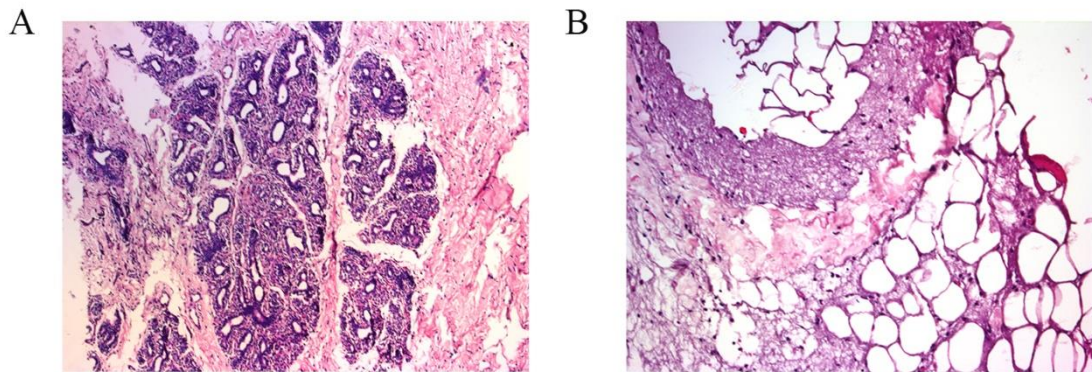


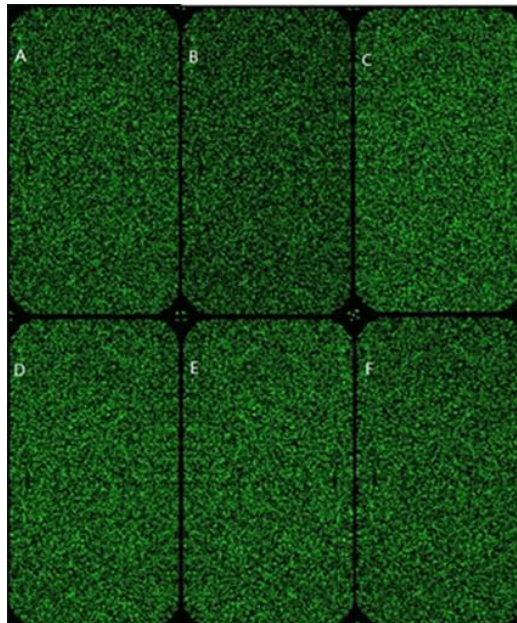
**Screening candidate microR-15a- *IRAK2* regulatory pairs for predicting the response to *Staphylococcus aureus*-induced mastitis in dairy cows**

Zhi Chen, Jingpeng Zhou, Xiaolong Wang, Yang Zhang, Xubin Lu, Yongliang Fan, Yongjiang Mao, Juan J. Looor and Zhangping Yang†

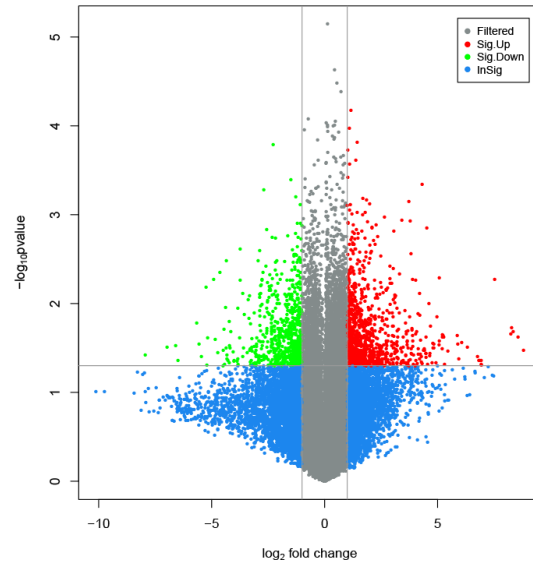
SUPPLEMENTARY FILE



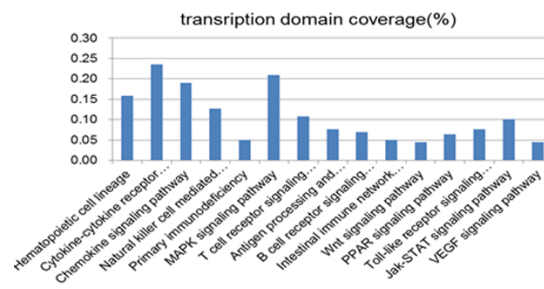
**Figure S1.** HE staining of cow mammary gland tissue (400×) A: Control. B: *S aureus* inoculated



**Figure S2.** Gene expression profile chip information



**Figure S3.** The volcano plot of the expression profile chip



**Figure S4.** Transcriptional domain coverage of pathway

**Table S1** Pathway enrichment analysis of differently expressed genes

<b>ID</b>	<b>Term</b>	<b>Function</b>	<b>P-Value</b>
bta04640	Hematopoietic cell lineage	Hematopoietic cell lineage	3.04E-07
bta04060	Cytokine-cytokine receptor interaction	Cytokine, cytokine receptor interaction	7.34E-05
bta04062	Chemokine signaling pathway	Chemokine signaling pathway	3.21E-03
bta04650	Natural killer cell mediated cytotoxicity	Natural killer cell-mediated cytotoxicity	7.88E-03
bta05340	Primary immunodeficiency	Major immune deficiency	3.67E-02
bta04010	MAPK signaling pathway	MAPK signaling pathway	1.19E-01
bta04660	T cell receptor signaling pathway	T cell receptor signaling pathway	5.96E-02
bta04612	Antigen processing and presentation	Antigen processing and presentation	6.97E-02
bta04662	B cell receptor signaling pathway	B cell receptor signaling pathway	1.52E-01
bta04672	Intestinal immune network for IgA production	Intestinal immune network IgA production	1.90E-01
bta04310	Wnt signaling pathway	Wnt signaling pathway	9.97E-01
bta03320	PPAR signaling pathway	PPAR signaling pathway	2.30E-01
bta04620	Toll-like receptor signaling pathway	Toll receptor signaling pathway	3.47E-01
bta04630	Jak-STAT signaling pathway	JAK-STAT signaling pathway	3.96E-01
bta04370	VEGF signaling pathway	Vascular endothelial growth factor signaling pathway	7.59E-01

**S2 TPM**

novel miRNA ID	mature sequence	hairpin ID	hairpin sequence
AC_000158.1_1029	AGCCCA AGACCA TACATTA GGT	AC_0 0015 8.1_1 029	AGCCCAAGACCAUACAUUAGGU GUACUGUCCUAAUUAACACCUA GUGCAUGGUCUUGGGCUUG
AC_000158.1_1029*	CTAGTG CATGGTC TTGGGC	AC_0 0015 8.1_1	AGCCCAAGACCAUACAUUAGGU GUACUGUCCUAAUUAACACCUA GUGCAUGGUCUUGGGCUUG

	TTG	029	
AC_000158.1_1059*	AAAACC CGAACA AACTTT GTGG	AC_0 0015 8.1_1 059	CCAAAGUUCGUUCGGGUUUUUC CUUAGUAUGUUACGGAAAAACC CGAACAAACUUUGUGG
AC_000158.1_1059	CCAAAG TTCGTC GGGTTTT TC	AC_0 0015 8.1_1 059	CCAAAGUUCGUUCGGGUUUUUC CUUAGUAUGUUACGGAAAAACC CGAACAAACUUUGUGG
AC_000158.1_1117	AGAGAC AGTGGG TGCTGG	AC_0 0015 8.1_1 117	AGAGACAGUGGGUGCUGGGGAG AGAAGGGUGUUUGUCAAGGGC AAGUGGGCUCUGCAGAGCCUUU CAGCAGCCCCUGUCAUCUC
AC_000158.1_1117*	AGCAGC CCCTGTC ATCTC	AC_0 0015 8.1_1 117	AGAGACAGUGGGUGCUGGGGAG AGAAGGGUGUUUGUCAAGGGC AAGUGGGCUCUGCAGAGCCUUU CAGCAGCCCCUGUCAUCUC
AC_000158.1_128*	AGCAGA CTCTGG ACAGTC AG	AC_0 0015 8.1_1 28	UACUGUACUGUGUUAACUGGGA GACUUGCCCAGCAAACUCCCAGC AGACUCUGGACAGUCAG
AC_000158.1_128	TACTGTA CTGTGTT AACTGG	AC_0 0015 8.1_1 28	UACUGUACUGUGUUAACUGGGA GACUUGCCCAGCAAACUCCCAGC AGACUCUGGACAGUCAG
AC_000158.1_252	CAGTCC GGTCCC GCGGTG TCTCCG	AC_0 0015 8.1_2 52	CAGUCCGGUCCCGCGGUGUCUCC GCCUGUUGAUGCCGCGCGGCC GCGGGCUCGGAUGCUC

AC_000158.1_252*	GCGGCC CGCGGG CTCGGAT GCTC	AC_0 0015 8.1_2 52	CAGUCCGGUCCCCGCGGUGUCUCC GCCUGUUGAUGCCGCGCGGCC GCGGGCUCGGAUGCUC
AC_000158.1_371	AAGGAA GAAAGA AGGATA GGCT	AC_0 0015 8.1_3 71	UAUAUCCUCCUUCUUCUGACU UUCUUUUUGUUACUGAAAGGA AGAAAGAAGGAUAGGCU
AC_000158.1_371*	TATATCC TTCCTTC TTCTGAC TTTC	AC_0 0015 8.1_3 71	UAUAUCCUCCUUCUUCUGACU UUCUUUUUGUUACUGAAAGGA AGAAAGAAGGAUAGGCU
AC_000158.1_375*	TCTACCT TGCCCTC TGCCAG G	AC_0 0015 8.1_3 75	UCUACCUUGCCCUCUGCCAGGG AAUGGGGAAAGCAGGAGUGAGG A
AC_000158.1_375	TGGGGA AAGCAG GAGTGA GGA	AC_0 0015 8.1_3 75	UCUACCUUGCCCUCUGCCAGGG AAUGGGGAAAGCAGGAGUGAGG A
AC_000158.1_382*	AAAATT CCAAAC AAACTT TTTGA	AC_0 0015 8.1_3 82	AAUAAGUUCGUUCAGUUUUUUG UAAGGAAAAAUCCAAACAAAC UUUUUGA
AC_000158.1_382	AATAAG TTCGTTC AGTTTTT T	AC_0 0015 8.1_3 82	AAUAAGUUCGUUCAGUUUUUUG UAAGGAAAAAUCCAAACAAAC UUUUUGA
AC_000158.1_420	AGAGGA	AC_0	AGAGGAGGUUGGAGUGAGAGUG

	GGTTGG AGTGAG AGT	0015 8.1_4 20	UCAUGUAUUGGGAUAGCCAGGG GAUCCUUGCCUUUGGCCUUUCU UCUCCUCCUUCUUCCUCUUC
AC_000158.1_420*	TCTCCTC CTTCTTC CTCTTC	AC_0 0015 8.1_4 20	AGAGGAGGUUGGAGUGAGAGUG UCAUGUAUUGGGAUAGCCAGGG GAUCCUUGCCUUUGGCCUUUCU UCUCCUCCUUCUUCCUCUUC
AC_000158.1_466*	ATGTTGG CTTCTAG CCCTGG TAGGAC	AC_0 0015 8.1_4 66	CAGUCAGGGCUGGGGGCAGGUG GGGUGCCCAGACCCCACAAAUG UGGGGGGAUGGAGAGCUCAUGU UGGCUUCUAGCCCUGGUAGGAC
AC_000158.1_466	CAGTCA GGGCTG GGGGCA GGTGG	AC_0 0015 8.1_4 66	CAGUCAGGGCUGGGGGCAGGUG GGGUGCCCAGACCCCACAAAUG UGGGGGGAUGGAGAGCUCAUGU UGGCUUCUAGCCCUGGUAGGAC
AC_000158.1_508*	GCTCAC ACCGCT CCCTGT	AC_0 0015 8.1_5 08	UGGGACGACAUGGAGAAGGCGU GGCAGGCCUUUGUCCAGCACAG AGGCCGGAGCCAGCUCACACCGC UCCCUGU
AC_000158.1_508	TGGGAC GACATG GAGAAG	AC_0 0015 8.1_5 08	UGGGACGACAUGGAGAAGGCGU GGCAGGCCUUUGUCCAGCACAG AGGCCGGAGCCAGCUCACACCGC UCCCUGU
AC_000158.1_576	CAGGGA GCTGAG TTGAAG AGGA	AC_0 0015 8.1_5 76	CAGGGAGCUGAGUUGAAGAGGA AGUCCACUGAAAAUAGUUUGGA AUAGUCUACUCUCCUCUCAA CUCAACUCCCUAA
AC_000158.1_576*	CTCTTCA ACTCAA	AC_0 0015	CAGGGAGCUGAGUUGAAGAGGA AGUCCACUGAAAAUAGUUUGGA

	CTCCCTT AA	8.1_5 76	AUAGUCUACUCUCCUCUCAA CUCAACUCCCUAA
AC_000158.1_607*	ACCTGC TTCCTCC CTTCC	AC_0 0015 8.1_6 07	ACCUGCUUCCUCCCUUCCUUGGA GGGCACGGUGGGUGGGGUCAA GGGGGUAGGGACAGGGGGGCAG GAGA
AC_000158.1_607	TAGGGA CAGGGG GGCAGG AGA	AC_0 0015 8.1_6 07	ACCUGCUUCCUCCCUUCCUUGGA GGGCACGGUGGGUGGGGUCAA GGGGGUAGGGACAGGGGGGCAG GAGA
AC_000158.1_662	AAGGAG CTGGAG GAAGAT	AC_0 0015 8.1_6 62	UUUGC UAAAGAGCUCUUUGAUC AGUAAUGAGAAGGAGCUGGAGG AAGAU
AC_000158.1_662*	TTTGCTA AAGAGC TCTTTGA	AC_0 0015 8.1_6 62	UUUGC UAAAGAGCUCUUUGAUC AGUAAUGAGAAGGAGCUGGAGG AAGAU
AC_000170.1_12862>AC_000158.1_689>AC_000158.1_869	AAAAAT TTCGTTC AGGTTTT TC	AC_0 0015 8.1_6 89	AAAAAUUCGUUCAGGUUUUUC UGUAACACUGUAUAAGAAAACC AGGAUGAACUUUUUGG
AC_000158.1_689*	AAAACC AGGATG AACTTTT TGG	AC_0 0015 8.1_6 89	AAAAAUUCGUUCAGGUUUUUC UGUAACACUGUAUAAGAAAACC AGGAUGAACUUUUUGG
AC_000158.1_725*	ACACAG AAAGTC AAGTCC	AC_0 0015 8.1_7	UUUGGACUUGACAUGCAUGUU UAUAAACAUAUUUCAUAUGUAA ACACAGAAAGUCAAGUCCAAAU



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AC_000158.1_725	TTTGGA CTTGAC ATTGCAT GTTT	AC_0 0015 8.1_7 25	UUUGGACUUGACAUGCAUGUU UAUAAACAUAUUUCAUAUGUAA ACACAGAAAGUCAAGUCCAAAU U
AC_000160.1_2452*>AC_00 0158.1_789>AC_000163.1_6 322	AAATGTT CTTTTGG GTTTTT	AC_0 0015 8.1_7 89	AAAUGUUCUUUUGGGUUUUUCU AUAAGAAGUCCUGAGUGAACU UUUUG
AC_000158.1_789*	GTTCTG AGTGAA CTTTTTG	AC_0 0015 8.1_7 89	AAAUGUUCUUUUGGGUUUUUCU AUAAGAAGUCCUGAGUGAACU UUUUG
AC_000158.1_814*	CGCTTC GCCTATG CGGG	AC_0 0015 8.1_8 14	CGCUUCGCCUAUGCGGGCUGGG GCUGCAAGUUGCAAACUUCAGC AACUCGGGUGGGUAGAAGGGUA
AC_000158.1_814	CGGGTG GGTAGA AGGGTA	AC_0 0015 8.1_8 14	CGCUUCGCCUAUGCGGGCUGGG GCUGCAAGUUGCAAACUUCAGC AACUCGGGUGGGUAGAAGGGUA
AC_000158.1_836	CACGCT CCCCGG CCCTCCC GGT	AC_0 0015 8.1_8 36	GUGGAGGGCGGGGAGCGAGCGA GGGCGGCGCACGCUCCCCGGCCC UCCCCGU
AC_000158.1_836*	GTGGAG GGCGGG GAGCGA GCG	AC_0 0015 8.1_8 36	GUGGAGGGCGGGGAGCGAGCGA GGGCGGCGCACGCUCCCCGGCCC UCCCCGU

AC_000158.1_838*	GGCCAA AAAGTT AGGTAT	AC_0 0015 8.1_8 38	GGCCAAAAAGUUAGGUUUUCU GUAAGAUGGUAUGGAAAAAUCC AAGUGAACUUUUUGGCCAA
AC_000158.1_838>AC_0001 69.1_12363	TCCAAG TGAAGT TTTTGGC CAA	AC_0 0015 8.1_8 38	GGCCAAAAAGUUAGGUUUUCU GUAAGAUGGUAUGGAAAAAUCC AAGUGAACUUUUUGGCCAA
AC_000158.1_846	AAGGAT GTGAGG CTGGCG AGGCAG	AC_0 0015 8.1_8 46	UUCGUGCCGGCCUAUAUUUACC CGAGAUCUCCUCUCGGACUGC AAGGAUGUGAGGCUGGCGAGGC AG
AC_000158.1_846*	TTCGTGC CGGCCT ATATTTA CCC	AC_0 0015 8.1_8 46	UUCGUGCCGGCCUAUAUUUACC CGAGAUCUCCUCUCGGACUGC AAGGAUGUGAGGCUGGCGAGGC AG
AC_000158.1_869*	AAAAAT CCAAAT GAACTT TTTG	AC_0 0015 8.1_8 69	AAAAAUUCGUUCAGGUUUUUC CAUAACAUCUACACAAAAAUC CAAUGAACUUUUUG
AC_000170.1_12862>AC_00 0158.1_689>AC_000158.1_8 69	AAAAAT TTCGTTC AGGTTTT TC	AC_0 0015 8.1_8 69	AAAAAUUCGUUCAGGUUUUUC CAUAACAUCUACACAAAAAUC CAAUGAACUUUUUG
AC_000158.1_885	AAGCAG GATTTAG ACTACA ATAT	AC_0 0015 8.1_8 85	AAGCAGGAUUUAGACUACAAUA UAGCUGCUAAGUGCUGUGUUGU CGUUCUUUUUGCUA
AC_000158.1_885*	TGTTGTC	AC_0	AAGCAGGAUUUAGACUACAAUA

	GTTCCCC CTGCTA	0015 8.1_8 85	UAGCUGCUAAGUGCUGUGUUGU CGUUCCCCCUGCUA
AC_000158.1_901*	AAAAAC TCAAAT GAACTT TTTG	AC_0 0015 8.1_9 01	AAAAAGUUUGUUUGGAUUUUUU GUGACAUCUUACAGAAAAACUC AAAUGAACUUUUUG
AC_000158.1_901	AAAAAG TTTGTTT GGATTTT T	AC_0 0015 8.1_9 01	AAAAAGUUUGUUUGGAUUUUUU GUGACAUCUUACAGAAAAACUC AAAUGAACUUUUUG
AC_000163.1_6897>AC_000 158.1_917	AAAAAG TTTGTTT GGATTTT C	AC_0 0015 8.1_9 17	AAAAAGUUUGUUUGGAUUUUC AUAUGAUGUCACAGAAGAACCC AAAUGAACUUUUUG
AC_000158.1_917*	AAGAAC CCAAAT GAACTT TTTG	AC_0 0015 8.1_9 17	AAAAAGUUUGUUUGGAUUUUC AUAUGAUGUCACAGAAGAACCC AAAUGAACUUUUUG
AC_000158.1_939	AAGGGC TGGGAA GGAGGC TGGG	AC_0 0015 8.1_9 39	AAGGGCUGGGAAGGAGGCUGGG GGAGGGGACGGCACACUGCUGA CCCAGGAAAUCUUCCCUGUGGC CAUCAG
AC_000158.1_939*	CAGGAA ATCTTCC CTGTGG CCATCA G	AC_0 0015 8.1_9 39	AAGGGCUGGGAAGGAGGCUGGG GGAGGGGACGGCACACUGCUGA CCCAGGAAAUCUUCCCUGUGGC CAUCAG
AC_000158.1_96*	CTGTTCG	AC_0	UGGGGGUGGUCGUCUGGCGUCG

	CACGGC GGGGCC CCCATG	0015 8.1_9 6	GCCGGGAUGGGCGGGCGGUCGAC UGUCGCACGGCGGGGCCCCCAU G
AC_000158.1_96	TGGGGG TGGTCG TCTGGC GTC	AC_0 0015 8.1_9 6	UGGGGGUGGUCGUCUGGCGUCG GCCGGGAUGGGCGGGCGGUCGAC UGUCGCACGGCGGGGCCCCCAU G
AC_000158.1_968*	CGGGGC CCACATC TGTCCA GAGG	AC_0 0015 8.1_9 68	CGGGGCCACAUUCUGUCCAGAG GAAGUACUUGAGGGGAUCCUCU GACAAGUGCUGGGACUCAGG
AC_000158.1_968	TCTGAC AAGTGC TGGGAC TCAGG	AC_0 0015 8.1_9 68	CGGGGCCACAUUCUGUCCAGAG GAAGUACUUGAGGGGAUCCUCU GACAAGUGCUGGGACUCAGG
AC_000158.1_976	GGAGGC GTGGGT TCGAATC	AC_0 0015 8.1_9 76	UUCUGAUCACAGUCUCUUCUGG AGGCGUGGGUUCGAAUC
AC_000158.1_976*	TTCTGAT CACAGT CTCTTC	AC_0 0015 8.1_9 76	UUCUGAUCACAGUCUCUUCUGG AGGCGUGGGUUCGAAUC
AC_000159.1_1276*	GGAGGC AGTGGG CCCCAG TGGG	AC_0 0015 9.1_1 276	UCUGGGGCACAUGCUGACUCCC UGGGUGCAGUCUGGAGCCAGGA GGCAGUGGGCCCCAGUGGG
AC_000159.1_1276	TCTGGG GCACAT	AC_0 0015	UCUGGGGCACAUGCUGACUCCC UGGGUGCAGUCUGGAGCCAGGA

	GCTGAC TCCCTG	9.1_1 276	GGCAGUGGGCCCCAGUGGG
AC_000159.1_1329	CTGGGC GGGTAG GGCAGG G	AC_0 0015 9.1_1 329	CUGUCCUAAGCAGCCCAAGUUA UCUCGAUCUGGCUGUUCACAUG CGGGGUUGGGGGACUGCUCUGG GCGGGUAGGGCAGGG
AC_000159.1_1329*	CTGTCCT AAGCAG CCCAAG T	AC_0 0015 9.1_1 329	CUGUCCUAAGCAGCCCAAGUUA UCUCGAUCUGGCUGUUCACAUG CGGGGUUGGGGGACUGCUCUGG GCGGGUAGGGCAGGG
AC_000159.1_1342	AAAACC TGAATG AACTTTT TT	AC_0 0015 9.1_1 342	AAA AUGUUCGUUCGGGUUUCUC AUAAGCUCUAUGGAAAACCCUG AAUGAACUUUUUU
AC_000159.1_1342*	AAAATG TTCGTTC GGGTTT	AC_0 0015 9.1_1 342	AAA AUGUUCGUUCGGGUUUCUC AUAAGCUCUAUGGAAAACCCUG AAUGAACUUUUUU
AC_000159.1_1347>AC_000 159.1_1349	ACTGGA CTTGGG GTCAGA AGG	AC_0 0015 9.1_1 347	UUCUGUUGUGAGUGUGCAAAGG GCCAGUCAGCUGUACUGACACC AGCACUGGACUUGGGGUCAGAA GG
AC_000159.1_1347*>AC_00 0159.1_1349*	TTCTGTT GTGAGT GTGC	AC_0 0015 9.1_1 347	UUCUGUUGUGAGUGUGCAAAGG GCCAGUCAGCUGUACUGACACC AGCACUGGACUUGGGGUCAGAA GG
AC_000159.1_1347>AC_000 159.1_1349	ACTGGA CTTGGG GTCAGA	AC_0 0015 9.1_1	UUCUGUUGUGAGUGUGCAAAGG GCCAGUCAGCUGUACUGACACC AGCACUGGACUUGGGGUCAGAA

	AGG	349	GG
AC_000159.1_1347*>AC_000159.1_1349*	TTCTGTT GTGAGT GTGC	AC_0 0015 9.1_1 349	UUCUGUUGUGAGUGUGCAAAGG GCCAGUCAGCUGUACUGACACC AGCACUGGACUUGGGGUCAGAA GG
AC_000159.1_1358	AAAGAG TTCGTTT GGGTTTT	AC_0 0015 9.1_1 358	AAAGAGUUCGUUUGGGUUUUUC UGGAAGAUGGUAUGGGAAAACU CUCAUGAUCUCUUUGU
AC_000159.1_1358*	AACTCT CATGATC TCTTTGT	AC_0 0015 9.1_1 358	AAAGAGUUCGUUUGGGUUUUUC UGGAAGAUGGUAUGGGAAAACU CUCAUGAUCUCUUUGU
AC_000159.1_1403	CGGAGA GTGGGG GGGTCG TTGG	AC_0 0015 9.1_1 403	GGGACCUCGGGAGGGUUGAG GGUUGGUGGGGACGCCUGGCCG AGAGUGGGGGGGUCGUUGG
AC_000159.1_1403*	GGGAC CTCCGG GAGGGT TGAGGG T	AC_0 0015 9.1_1 403	GGGACCUCGGGAGGGUUGAG GGUUGGUGGGGACGCCUGGCCG AGAGUGGGGGGGUCGUUGG
AC_000159.1_1553*	AGGCTC TCGGCC CGGGGG AGGA	AC_0 0015 9.1_1 553	AGGCUCUCGGCCCGGGGAGGA CAGGGCAAGGGGAAACACCUUU GCUGGUGCAAGCUAGGGGCUGU GGGAGUUGGA
AC_000159.1_1553	CAAGCT AGGGGC TGTGGG	AC_0 0015 9.1_1	AGGCUCUCGGCCCGGGGAGGA CAGGGCAAGGGGAAACACCUUU GCUGGUGCAAGCUAGGGGCUGU

	AGTTGG A	553	GGGAGUUGGA
AC_000159.1_1574*	CGGGTT CGCTGTT ACAGCC CAACC	AC_0 0015 9.1_1 574	CUGGGUGUUCGGUGACUCGGUC UCUGCUCCGGGUUCGCUGUUAC AGCCCAACC
AC_000159.1_1574	CTGGGT GTTCGG TGACTC GGT	AC_0 0015 9.1_1 574	CUGGGUGUUCGGUGACUCGGUC UCUGCUCCGGGUUCGCUGUUAC AGCCCAACC
AC_000159.1_1716*	AAACCT GAACAA ATTCCCC AG	AC_0 0015 9.1_1 716	AAAGAGUUCGUUGAGGUUUUUC CAUAACAUCUACAGAAAAACC UGAACAAAUCCCCAG
AC_000159.1_1716	AAAGAG TTCGTTG AGGTTTT T	AC_0 0015 9.1_1 716	AAAGAGUUCGUUGAGGUUUUUC CAUAACAUCUACAGAAAAACC UGAACAAAUCCCCAG
AC_000159.1_1756*	AGAACT ATAAAG TCTCTGG GTC	AC_0 0015 9.1_1 756	CCCGAGAGGAGAGAGGACUGGC UGACAGUAAAAGCGGAAGGCAG AGCUGGGGCUAGAACUAUAAAG UCUCUGGGUC
AC_000159.1_1756	CCCGAG AGGAGA GAGGAC TGG	AC_0 0015 9.1_1 756	CCCGAGAGGAGAGAGGACUGGC UGACAGUAAAAGCGGAAGGCAG AGCUGGGGCUAGAACUAUAAAG UCUCUGGGUC
AC_000159.1_1770	CAGGAG GGGCTG TAGGGA	AC_0 0015 9.1_1	CAGGAGGGGCUAGGGACGGU UGCCCCAGUGACGGGAGGGGCU GGCCUGGAUCCCCUCUGGGA

	CGGTT	770	
AC_000159.1_1770*	CTGGCC CTGGATT CCCTCTG GGA	AC_0 0015 9.1_1 770	CAGGAGGGGCUGUAGGGACGGU UGCCCCAGUGACGGGAGGGGCU GGCCCUGGAUUCCCUCUGGGA
AC_000159.1_1835	AAGGGG GAAGAA AAGAGT TCAGT	AC_0 0015 9.1_1 835	GGGGCUCUUUCAUUUCCCCCUU UCGGCUCCGUUUGUAAGUGAAA GGGGGAAGAAAAGAGUUCAGU
AC_000159.1_1835*	GGGGCT CTTTCAT TTCCCC TTTC	AC_0 0015 9.1_1 835	GGGGCUCUUUCAUUUCCCCCUU UCGGCUCCGUUUGUAAGUGAAA GGGGGAAGAAAAGAGUUCAGU
AC_000159.1_1845*	AGGGCC CTCCCC ACCCGC CTGG	AC_0 0015 9.1_1 845	AGGGCCUCCCCACCCGCCUGGG CGGCCAGAACUCCAGCCCUGGG GAGUGGGCAGGGCCUGUU
AC_000159.1_1845	TGGGGA GTGGGC AGGGCC TGTT	AC_0 0015 9.1_1 845	AGGGCCUCCCCACCCGCCUGGG CGGCCAGAACUCCAGCCCUGGG GAGUGGGCAGGGCCUGUU
AC_000159.1_1853	CAAGTG GTCGTC CTTCCA GGTG	AC_0 0015 9.1_1 853	CCUGCGGGCACCGCCCAGGCCCCG GAUUCAAGUGGUCGUCCUCCA GGUG
AC_000159.1_1853*	CCTGCG GGCACC GCCCAG G	AC_0 0015 9.1_1 853	CCUGCGGGCACCGCCCAGGCCCCG GAUUCAAGUGGUCGUCCUCCA GGUG



AC_000159.1_1871*	CTATCC AGACAA TCCCCT CCAGTC AC	AC_0 0015 9.1_1 871	CUAUCCCAGACAAUCCCACUCCA GUCACCAGGGGAACUCAAGCCC UCUCUCUCGGGGAUUGUAGGGG UGGC
AC_000159.1_1871	CTCTCG GGGATT GTAGGG GTGGC	AC_0 0015 9.1_1 871	CUAUCCCAGACAAUCCCACUCCA GUCACCAGGGGAACUCAAGCCC UCUCUCUCGGGGAUUGUAGGGG UGGC
AC_000159.1_1979*	GGACCT CCAAATT CATCTCT TCC	AC_0 0015 9.1_1 979	UGGAGAGAAAGGAAGGUCCUGG UGCAAACAUCCCAGCUGCCAAG AUUAGGGACCUCCAAAUUCAUC UCUUCC
AC_000159.1_1979	TGGAGA GAAAGG AAGGTC CTG	AC_0 0015 9.1_1 979	UGGAGAGAAAGGAAGGUCCUGG UGCAAACAUCCCAGCUGCCAAG AUUAGGGACCUCCAAAUUCAUC UCUUCC
AC_000159.1_1995*	AAAACCT GAACAG ACTTTCT G	AC_0 0015 9.1_1 995	AAAGGUUCGUUCAGGUUUUUC AUUAGUAUCUACAGGAAAAAC UGAACAGACUUUCUG
AC_000159.1_1995	AAAGGT TCGTTCA GGTTTTT C	AC_0 0015 9.1_1 995	AAAGGUUCGUUCAGGUUUUUC AUUAGUAUCUACAGGAAAAAC UGAACAGACUUUCUG
AC_000159.1_2035	ACTCTTC CCTCCCT CGGCCG G	AC_0 0015 9.1_2 035	ACUCUCCCCUCCCUCGGCCGGCG CUCUCGCGUUCGGCUGCCAGCCG GGACUGGGAGGAAGA

AC_000159.1_2035*	CCAGCC GGGACT GGGAGG AAGA	AC_0 0015 9.1_2 035	ACUCUCCCCUCCCUCGGCCGGCG CUCUCGCGUUCGGCUGCCAGCCG GGACUGGGAGGAAGA
AC_000159.1_2167*	AAAATAT GTAATCC TCCACAT	AC_0 0015 9.1_2 167	AGGGAGAUUGCAUACUUUAUAG AUAUUAUAUAAAAUAUUUACA UAUAUAAAAUAUGUAAUCCUCC ACAU
AC_000159.1_2167	AGGGAG ATTGCAT ACTTTAT	AC_0 0015 9.1_2 167	AGGGAGAUUGCAUACUUUAUAG AUAUUAUAUAAAAUAUUUACA UAUAUAAAAUAUGUAAUCCUCC ACAU
AC_000167.1_11053*>AC_0 00170.1_12965>AC_000159. 1_2216>AC_000161.1_4718	AAACTT GAATGA ACCTTTT GGCC	AC_0 0015 9.1_2 216	CCAAAAAUGUGUUUGAGUUUU UCCAUACCAUCUUAUGGAAAAA CUUGAAUGAACCUUUUGGCC
AC_000159.1_2216*	CCAAAA AATGTGT TTGAGTT TTT	AC_0 0015 9.1_2 216	CCAAAAAUGUGUUUGAGUUUU UCCAUACCAUCUUAUGGAAAAA CUUGAAUGAACCUUUUGGCC
AC_000159.1_2295	CGGCGG CGGCGG CGACTC G	AC_0 0015 9.1_2 295	CGGCGGCGGCGGCGACUCGCAG GCUCGGGGCUCGGGCUCCGCGG GCUGCCCGGCGCGACGCGGGAG GCUGCGCACCAAGG
AC_000159.1_2295*	GGAGGC TGCGCA CCAAGG	AC_0 0015 9.1_2 295	CGGCGGCGGCGGCGACUCGCAG GCUCGGGGCUCGGGCUCCGCGG GCUGCCCGGCGCGACGCGGGAG GCUGCGCACCAAGG
AC_000159.1_2357*	GAAGGG	AC_0	UGACUGCUCCUGCCCAUGCAGC

	GAAGGA CGTGGT GGTG	0015 9.1_2 357	UGGCUGUGCCCUUCUGUGUGAA CUUCCGGCUGAAGGGGAAGGAC GUGGUGGUG
AC_000159.1_2357	TGACTG CTCCTGC CCCATGC AGC	AC_0 0015 9.1_2 357	UGACUGCUCCUGCCCAUGCAGC UGGCUGUGCCCUUCUGUGUGAA CUUCCGGCUGAAGGGGAAGGAC GUGGUGGUG
AC_000159.1_2373*	AGTCAC TGGTCTC TTCTCTG CAGG	AC_0 0015 9.1_2 373	UGUGGGAAGGAGCUGUGCUGGU AGAAAGGGGCUCUCCAGUCACU GGUCUCUUCUCUGCAGG
AC_000159.1_2373	TGTGGG AAGGAG CTGTGCT GG	AC_0 0015 9.1_2 373	UGUGGGAAGGAGCUGUGCUGGU AGAAAGGGGCUCUCCAGUCACU GGUCUCUUCUCUGCAGG
AC_000159.1_2374*	GTGAAG TTRACTGC TACGTC	AC_0 0015 9.1_2 374	GUGAAGUUACUGCUACGUCAGC ACCGCUGGGCAUCGACUGUGGG AAGGAGCUGUGCUG
AC_000159.1_2374	TGTGGG AAGGAG CTGTGCT G	AC_0 0015 9.1_2 374	GUGAAGUUACUGCUACGUCAGC ACCGCUGGGCAUCGACUGUGGG AAGGAGCUGUGCUG
AC_000160.1_2434*	AAAGCC CAAATG AACTTTT TGG	AC_0 0016 0.1_2 434	GAAAGUUUGUUGGGGUUUUCU GUCACAUUUAACAGAAAAGCCC AAAUGAACUUUUUGG
AC_000160.1_2434	GAAAGT TTGTTGG	AC_0 0016	GAAAGUUUGUUGGGGUUUUCU GUCACAUUUAACAGAAAAGCCC

	GGTTTT CT	0.1_2 434	AAAUGAACUUUUUGG
AC_000160.1_2441*	ACACTTT TTTAGGC TCACTTG T	AC_0 0016 0.1_2 441	ACACUUUUUAGGCUCACUUGU UCAGUCGCACUGUGGGGCGGGA GGGACGCU
AC_000160.1_2441	CTGTGG GGCGGG AGGGAC GCT	AC_0 0016 0.1_2 441	ACACUUUUUAGGCUCACUUGU UCAGUCGCACUGUGGGGCGGGA GGGACGCU
AC_000160.1_2452	AAACCT GAACAA CCTTTTT GGC	AC_0 0016 0.1_2 452	AAAUGUUCUUUUGGGUUUUUUU UCAUAAGAUGUUACAGGAAAA CCUGAACCAACCUUUUUGGC
AC_000160.1_2452*>AC_00 0158.1_789>AC_000163.1_6 322	AAATGTT CTTTTGG GTTTTT	AC_0 0016 0.1_2 452	AAAUGUUCUUUUGGGUUUUUUU UCAUAAGAUGUUACAGGAAAA CCUGAACCAACCUUUUUGGC
AC_000160.1_2486	CCTGCTT CTGGGT CGGGTT	AC_0 0016 0.1_2 486	CCUGCUUCUGGGUCGGGUUUUG UACGCAGCAGAGCAGCUCCCUC ACUGCAACCUAUUGAAAGUCAG CCCU
AC_000160.1_2486*	CTATTGA AAGTCA GCCCT	AC_0 0016 0.1_2 486	CCUGCUUCUGGGUCGGGUUUUG UACGCAGCAGAGCAGCUCCCUC ACUGCAACCUAUUGAAAGUCAG CCCU
AC_000160.1_2528	ATGGAAT GGAATT AGGGTA	AC_0 0016 0.1_2	AUGGAAUGGAAUUAGGGUAGCA GGCACUGGACCAUCCUUGACG ACUCCCUGGGUCCUCUAUCCCUA

	GCAGG	528	UUCCCAUUCCAGGC
AC_000160.1_2528*	CTCTATC CCTATTC CCATTCC AGGC	AC_0 0016 0.1_2 528	AUGGAAUGGAAUUAGGGUAGCA GGCACUGGACCCAUCCUUGACG ACUCCCUGGGUCCUCUAUCCCUA UUCCCAUUCCAGGC
AC_000160.1_2543	AAGGAG TGGGGA AGGGAG GT	AC_0 0016 0.1_2 543	CUCCCUCCCCUCUCCAGUGUG UGGGGAAAAGCAAGGAGUGGGG AAGGGAGGU
AC_000160.1_2543*	CTCCCTC CCCCTCT CCCA	AC_0 0016 0.1_2 543	CUCCCUCCCCUCUCCAGUGUG UGGGGAAAAGCAAGGAGUGGGG AAGGGAGGU
AC_000160.1_2571*	CTGGCC CGCCCC CCACCA GG	AC_0 0016 0.1_2 571	CUGGCCCGCCCCCACCAGGAAG UGACCGAAAACCUGGAGCGGGA GCUGGUUAGCG
AC_000160.1_2571	TGGAGC GGGAGC TGGTTA GCG	AC_0 0016 0.1_2 571	CUGGCCCGCCCCCACCAGGAAG UGACCGAAAACCUGGAGCGGGA GCUGGUUAGCG
AC_000160.1_2772	AAAGGT TCTTTTG GGTTTT	AC_0 0016 0.1_2 772	AAAGGUUCUUUUGGGUUUUGGG GAAAACUCCGAACAAACUUUUC G
AC_000160.1_2772*	AACTCC GAACAA ACTTTTC G	AC_0 0016 0.1_2 772	AAAGGUUCUUUUGGGUUUUGGG GAAAACUCCGAACAAACUUUUC G

AC_000160.1_2939*	CAGTGC CTAGAA AATCCC ATGGA	AC_0 0016 0.1_2 939	CAGUGCCUAGAAAAUCCCAUGG AUGGACAGAGGAGCCUGGCAGG CUACAGUCCGUGGGGUUGUAGA GAGAUGGA
AC_000160.1_2939	CGTGGG GTTGTA GAGAGA TGGA	AC_0 0016 0.1_2 939	CAGUGCCUAGAAAAUCCCAUGG AUGGACAGAGGAGCCUGGCAGG CUACAGUCCGUGGGGUUGUAGA GAGAUGGA
AC_000160.1_2973	AAAAAC CTGAAT GACCCT TTT	AC_0 0016 0.1_2 973	AAGGUUCAUUUGGGUUUCUCCA UGCCAUCUUACGGAAAAACCUG AAUGACCCUUUU
AC_000160.1_2973*	AAGGTT CATTTGG GTTTCTC C	AC_0 0016 0.1_2 973	AAGGUUCAUUUGGGUUUCUCCA UGCCAUCUUACGGAAAAACCUG AAUGACCCUUUU
AC_000160.1_3063*	CAGCCT GGAGCT GACCAC CGCACA ACG	AC_0 0016 0.1_3 063	CAGCCUGGAGCUGACCACCGCAC AACGGGGUGAGCAGGUGGUGAG GGGCUGGG
AC_000160.1_3063	GTGAGC AGGTGG TGAGGG GCTGGG	AC_0 0016 0.1_3 063	CAGCCUGGAGCUGACCACCGCAC AACGGGGUGAGCAGGUGGUGAG GGGCUGGG
AC_000160.1_3064*	CTGACC CTCCCCT CCTGCTC GCT	AC_0 0016 0.1_3 064	UGAGCAGGUGGUGAGGGGCUGG GAGCAGCCAUCAGGAUCCAGGC UGGCCUCCGGGGCCCUCCUGAC CCUCCCCUCCUGCUCGCU

AC_000160.1_3064	TGAGCA GGTGGT GAGGGG CTG	AC_0 0016 0.1_3 064	UGAGCAGGUGGUGAGGGGCUGG GAGCAGCCAUCAGGAUCCAGGC UGGCCUCCGGGGCCCUCCCUGAC CCUCCCCUCCUGCUCGCU
AC_000160.1_3081	AGGCTG AGGACT GACGGG	AC_0 0016 0.1_3 081	AGGCUGAGGACUGACGGGUUCC GAGAGUCUUCCCUGU
AC_000160.1_3081*	CGAGAG TCTTCC TGT	AC_0 0016 0.1_3 081	AGGCUGAGGACUGACGGGUUCC GAGAGUCUUCCCUGU
AC_000160.1_3086*	ACACAC TTCTGTT GTGCCT ACA	AC_0 0016 0.1_3 086	CAGGCACAACUGAAGCGUCUCA GCACACACACUUCUGUUGUGCC UACA
AC_000160.1_3086	CAGGCA CAACTG AAGCGT CTCA	AC_0 0016 0.1_3 086	CAGGCACAACUGAAGCGUCUCA GCACACACACUUCUGUUGUGCC UACA
AC_000160.1_3090	TAGGGC AGGGCG AGGGCG GG	AC_0 0016 0.1_3 090	UAGGGCAGGGCGAGGGCGGGUG AUUCACGUGCCCCAUUCCCCUG CCCUCGC
AC_000160.1_3090*	TGCCCC ATTTCC CTGCCCT CGC	AC_0 0016 0.1_3 090	UAGGGCAGGGCGAGGGCGGGUG AUUCACGUGCCCCAUUCCCCUG CCCUCGC
AC_000160.1_3134*	GCTGTC	AC_0	GGGCCUGGAGGACAGCGGGACC

	CCAGAT GTCCCC	0016 0.1_3 134	UGGAGGGCACAGUGGUACCCAG UCUGGUCCUCAGGUGUGUGCUG UCCCAGAUGUCCCC
AC_000160.1_3134	GGGCCT GGAGGA CAGCGG	AC_0 0016 0.1_3 134	GGGCCUGGAGGACAGCGGGACC UGGAGGGCACAGUGGUACCCAG UCUGGUCCUCAGGUGUGUGCUG UCCCAGAUGUCCCC
AC_000181.1_22204>AC_00 0160.1_3149	ACATGG GACTGT GGGAAA GGCA	AC_0 0016 0.1_3 149	ACAUGGGACUGUGGGAAAGGCA GCCCCCUCUCCCCUCCAGAGGA CUUGUUGAUUUACUGGGAAAGGC UGAGUCCCAUAUGUCUCCUCCA C
AC_000160.1_3149*	TGAGTC CCATATG TCTCCTC CAC	AC_0 0016 0.1_3 149	ACAUGGGACUGUGGGAAAGGCA GCCCCCUCUCCCCUCCAGAGGA CUUGUUGAUUUACUGGGAAAGGC UGAGUCCCAUAUGUCUCCUCCA C
AC_000160.1_3191	AAAACG TTCGTTC AGGTTTT T	AC_0 0016 0.1_3 191	AAAACGUUCGUUCAGGUUUUUC CACAGCAUCUUAUGGGAAAACU CGAAGAACUUUCUGG
AC_000160.1_3191*	AAACTC GAAGAA CTTTCTG G	AC_0 0016 0.1_3 191	AAAACGUUCGUUCAGGUUUUUC CACAGCAUCUUAUGGGAAAACU CGAAGAACUUUCUGG
AC_000160.1_3200	ACTGGG CAGGGG AACGTG	AC_0 0016 0.1_3 200	CGCCGCCGUCCCAGGACUAGUCA CCGAGUUACUGGGCAGGGGAAC GUG



AC_000160.1_3200*	CGCCGC CGTCCC AGGAC	AC_0 0016 0.1_3 200	CGCCGCCGUCCCAGGACUAGUCA CCGAGUUACUGGGCAGGGGAAC GUG
AC_000160.1_3228*	CCCAGG AGGCGC CACTGC C	AC_0 0016 0.1_3 228	CCCAGGAGGCGCCACUGCCUGG UAGGUGGAGGGUUACCCGGCCU GAAGGCGGGUGGGCGGAGCGGG AC
AC_000160.1_3228	CGGGTG GGCGGA GCGGGA C	AC_0 0016 0.1_3 228	CCCAGGAGGCGCCACUGCCUGG UAGGUGGAGGGUUACCCGGCCU GAAGGCGGGUGGGCGGAGCGGG AC
AC_000160.1_3283*	CATTTCT CTGCTG CTGTCCC CA	AC_0 0016 0.1_3 283	GCUGGACUCAGUGGGGAUGUGG GCUGCUAAGCGUUAAGUCCA UCUCUGCUGCUGUCCCCA
AC_000160.1_3283	GCTGGA CTCAGT GGGGAT GTGGG	AC_0 0016 0.1_3 283	GCUGGACUCAGUGGGGAUGUGG GCUGCUAAGCGUUAAGUCCA UCUCUGCUGCUGUCCCCA
AC_000160.1_3297	ACTGGG GGTTGA GAATGT CGCT	AC_0 0016 0.1_3 297	ACUGGGGGUUGAGAAUGUCGCU CUCUCAAGGCUGCCCUCCGGGC GUGAGAGCAGCAGGAGCAACAU UCUCAACCCCCAGGCU
AC_000160.1_3297*	CAACATT CTCAAC CCCCAG GCT	AC_0 0016 0.1_3 297	ACUGGGGGUUGAGAAUGUCGCU CUCUCAAGGCUGCCCUCCGGGC GUGAGAGCAGCAGGAGCAACAU UCUCAACCCCCAGGCU
AC_000160.1_3304*	CCCGAG	AC_0	CCCGAGCCCGAGCCCGGGAGCGC

	CCCGAG CCCGGG A	0016 0.1_3 304	CGAGCCCGGCUAGGGUGAGUGA ACCGGGCGGGAGGCGAGGGCA
AC_000160.1_3304	CCGGGC GGGAGG CGAGGG CA	AC_0 0016 0.1_3 304	CCCGAGCCCGAGCCCGGGAGCGC CGAGCCCGGCUAGGGUGAGUGA ACCGGGCGGGAGGCGAGGGCA
AC_000160.1_3311	ATCCCA GCCGGG TCGAGG GACA	AC_0 0016 0.1_3 311	AUCCCAGCCGGGUCGAGGGACA GCCCUGGCGCGAUGGCUCCCUCG GAACCCGGCUGG
AC_000160.1_3311*	CTCCCTC GGAACC CGGCTG G	AC_0 0016 0.1_3 311	AUCCCAGCCGGGUCGAGGGACA GCCCUGGCGCGAUGGCUCCCUCG GAACCCGGCUGG
AC_000160.1_3320	TGAGGG GCAGAG AGAGAG AG	AC_0 0016 0.1_3 320	UUCAGUUUAUUGUUCUUUGGUA CUCACUGAGGGGCAGAGAGAGA GAG
AC_000160.1_3320*	TTCAGTT TATTGTT CTTTGGT	AC_0 0016 0.1_3 320	UUCAGUUUAUUGUUCUUUGGUA CUCACUGAGGGGCAGAGAGAGA GAG
AC_000160.1_3381	AAAGTT CGTTAA GGTTTTC	AC_0 0016 0.1_3 381	AAAGUUCGUUAAGGUUUUCCCU GAGACCUUAUUGGGCCACCC
AC_000160.1_3381*	AGACCT TATTGGG	AC_0 0016	AAAGUUCGUUAAGGUUUUCCCU GAGACCUUAUUGGGCCACCC

	CCACCC	0.1_3 381	
AC_000160.1_3398	CTGGGC TGTGGG GCATAG GCA	AC_0 0016 0.1_3 398	GAUGUGGCCUGCAGUGUGGCCU GUUGGGCCCUGGGCUGUGGGGC AUAGGCA
AC_000160.1_3398*	GATGTG GCCTGC AGTGTG GCC	AC_0 0016 0.1_3 398	GAUGUGGCCUGCAGUGUGGCCU GUUGGGCCCUGGGCUGUGGGGC AUAGGCA
AC_000160.1_3534	CTCGGG AGACAT GGCTGG	AC_0 0016 0.1_3 534	GGCCUCGGGCGGGGCUGGGGCC GUGGCAGGAAGCCGGAAGCAGC CGCGGCCCCAGCUCGGGAGACA UGGCUGG
AC_000160.1_3534*	GGCCTC GGGCGG GGCT	AC_0 0016 0.1_3 534	GGCCUCGGGCGGGGCUGGGGCC GUGGCAGGAAGCCGGAAGCAGC CGCGGCCCCAGCUCGGGAGACA UGGCUGG
AC_000160.1_3565	TGGGAT GAAGCA CTGGAG	AC_0 0016 0.1_3 565	UGGGAUGAAGCACUGGAGGCAG AAGAACUGGUUUGUAAACUGUA AAGCACAGUUUAAGGAAAUUGG GUGGGUUUGGACCACC
AC_000160.1_3565*	TGGGTG GGTTTG GACCAC C	AC_0 0016 0.1_3 565	UGGGAUGAAGCACUGGAGGCAG AAGAACUGGUUUGUAAACUGUA AAGCACAGUUUAAGGAAAUUGG GUGGGUUUGGACCACC
AC_000160.1_3602	AAAGAG GACCCA CAAAGA	AC_0 0016 0.1_3	GUGUCUAUUUGUGGGCCCUCUG UUAGGAAAGAGGACCCACAAAG ACACAU

	CACAT	602	
AC_000160.1_3602*	GTGTCTA TTTGTGG GCCCTCT GTTA	AC_0 0016 0.1_3 602	GUGUCUAUUUGUGGGCCCUCUG UUAGGAAAGAGGACCCACAAAG ACACAU
AC_000160.1_3613	AAAAAG TTCGTAC AGGTTTT T	AC_0 0016 0.1_3 613	AAAAAGUUCGUACAGGUUUUUC UGUACUAUCUUACCGGAAAACU UGUACGAAUUUUUUU
AC_000160.1_3613*	GAAAAC TTGTACG AATTTTT TT	AC_0 0016 0.1_3 613	AAAAAGUUCGUACAGGUUUUUC UGUACUAUCUUACCGGAAAACU UGUACGAAUUUUUUU
AC_000160.1_3625*	AAACCC CAAAGG AACTTTT TGG	AC_0 0016 0.1_3 625	GAAAAGUUCGUUCGAGUUUUC AUAAGAUGGUAGAAAAACCCC AAAGGAACUUUUUGG
AC_000160.1_3625	GAAAAG TTCGTTC GAGTTTT C	AC_0 0016 0.1_3 625	GAAAAGUUCGUUCGAGUUUUC AUAAGAUGGUAGAAAAACCCC AAAGGAACUUUUUGG
AC_000160.1_3639*	GCCAGG TTAGGC AAGGTG CCAG	AC_0 0016 0.1_3 639	UGUAUCCUGCCGACUACGCCAA CUAUCUCACUGUUCACUGAAGC CAGGUUAGGCAAGGUGCCAG
AC_000160.1_3639	TGTATCC TGCCGA CTACGC CA	AC_0 0016 0.1_3 639	UGUAUCCUGCCGACUACGCCAA CUAUCUCACUGUUCACUGAAGC CAGGUUAGGCAAGGUGCCAG

AC_000160.1_3660*	ACTTGC CCACTC ATCCCTT CCTCATG C	AC_0 0016 0.1_3 660	ACUUGCCCACUCAUCCCUUCCUC AUGCUGCGCCUGCCUGGGUGGG ACUAGAGGGCAGGUCA
AC_000160.1_3660	CTGGGT GGGACT AGAGGG CAGGTC A	AC_0 0016 0.1_3 660	ACUUGCCCACUCAUCCCUUCCUC AUGCUGCGCCUGCCUGGGUGGG ACUAGAGGGCAGGUCA
AC_000160.1_3796	AGGTCT GAGTGG GCGAGG CC	AC_0 0016 0.1_3 796	CCACGCCCACCAUGCCCUGGCCG CCGCCUCACUGGCCAGGUCUGA GUGGGCGAGGCC
AC_000160.1_3796*	CCACGC CCACCAT GCCCTG G	AC_0 0016 0.1_3 796	CCACGCCCACCAUGCCCUGGCCG CCGCCUCACUGGCCAGGUCUGA GUGGGCGAGGCC
AC_000161.1_3824*	ACAGCC TGCACT GCTCTG ATAG	AC_0 0016 1.1_3 824	AUGUGGGCUGUGGGGGCAGGUG GCGCCGGCUCGGUAAAGCAGGC UACAGCCUGCACUGCUCUGAUA G
AC_000161.1_3824	ATGTGG GCTGTG GGGGCA GGTGG	AC_0 0016 1.1_3 824	AUGUGGGCUGUGGGGGCAGGUG GCGCCGGCUCGGUAAAGCAGGC UACAGCCUGCACUGCUCUGAUA G
AC_000161.1_3847	ACACTG TTCTTGT AGATGG	AC_0 0016 1.1_3	GUCAUUCUGCAAGGAUCCAAUG AUGUCGAACUUGUUGCCGAGGG CAACAGCAGAUUCACUUACACU

	CTG	847	GUUCUUGUAGAUGGCUG
AC_000161.1_3847*	GTCATTC TGCAAG GATCCA ATGA	AC_0 0016 1.1_3 847	GUCAUUCUGCAAGGAUCCAAUG AUGUCGAACUUGUUGCCGAGGG CAACAGCAGAUUCACUUACACU GUUCUUGUAGAUGGCUG
AC_000161.1_3902*	GCCGGC CGCCGT GGGGGG GCTGC	AC_0 0016 1.1_3 902	GGCCUCGCCGGGCCGCGCCGCGC GCGCGCCGUGAGGUCAUCGGCG CCGCCGCCGGGCCCGUGGGGGG GCUGC
AC_000161.1_3902	GGCCTC GCCGGG CCGCGC CGCGC	AC_0 0016 1.1_3 902	GGCCUCGCCGGGCCGCGCCGCGC GCGCGCCGUGAGGUCAUCGGCG CCGCCGCCGGGCCCGUGGGGGG GCUGC
AC_000161.1_3987*	ACTCCCT GACTGC CGAGCT	AC_0 0016 1.1_3 987	ACUCCCUGACUGCCGAGCUUCCU AUCCGGAUAGCUGGCAGGAUUAU GGAGUCU
AC_000161.1_3987	CTGGCA GGATATG GAGTCT	AC_0 0016 1.1_3 987	ACUCCCUGACUGCCGAGCUUCCU AUCCGGAUAGCUGGCAGGAUUAU GGAGUCU
AC_000161.1_3996	ATATGGA GGCACT AAAAAT TT	AC_0 0016 1.1_3 996	AUAUGGAGGCACUAAAAUUUA AUUUGACGCCAAAAUUAAAAUU UCAGUGCCUCCAUCUAG
AC_000161.1_3996*	ATTTTCA GTGCCT CCATCTA G	AC_0 0016 1.1_3 996	AUAUGGAGGCACUAAAAUUUA AUUUGACGCCAAAAUUAAAAUU UCAGUGCCUCCAUCUAG

AC_000161.1_4103*	AAAAAG TTTGTTT AAGTTTT TC	AC_0 0016 1.1_4 103	AAAAAGUUUGUUUAAGUUUUUC CGUAAGAUGCAAUGGAAAAACA UGAACAAGCUUUUUGG
AC_000161.1_4103	AAAACA TGAACA AGCTTTT TGG	AC_0 0016 1.1_4 103	AAAAAGUUUGUUUAAGUUUUUC CGUAAGAUGCAAUGGAAAAACA UGAACAAGCUUUUUGG
AC_000161.1_4204	CCTGGG GATGTGT GGGGGC TT	AC_0 0016 1.1_4 204	CCUGGGGAUGUGUGGGGGCUUU CUGGUGGCAUGGACUGGGAGAA AGCUAUUGCAACGGGGCAAGGG GU
AC_000161.1_4204*	GCTATTG CAACGG GGCAAG GGGT	AC_0 0016 1.1_4 204	CCUGGGGAUGUGUGGGGGCUUU CUGGUGGCAUGGACUGGGAGAA AGCUAUUGCAACGGGGCAAGGG GU
AC_000161.1_4207	AAAAGT TCATTCA GGTTTTT T	AC_0 0016 1.1_4 207	AAAAGUUCAUUCAGGUUUUUUA UACCAUCUUACAAAAACCCAGA UGACCUUUUUG
AC_000161.1_4207*	AAACCC AGATGA CCTTTTT G	AC_0 0016 1.1_4 207	AAAAGUUCAUUCAGGUUUUUUA UACCAUCUUACAAAAACCCAGA UGACCUUUUUG
AC_000161.1_4263*	CCCCC ACTGCT AAATTTG ACTGGC TT	AC_0 0016 1.1_4 263	GGCUGGUCCGAUGGUAGUGGGU UACCAGAACUUAUUAACGUUAG UGUCACUAAAGUUGGUAUACAA CCCCCACUGCUAAAUUUGACU GGCUU

AC_000161.1_4263	GGCTGG TCCGATG GTAGTG GGTTAC	AC_0 0016 1.1_4 263	GGCUGGUCCGAUGGUAGUGGGU UACCAGAACUUAUUAACGUUAG UGUCACUAAAGUUGGUAUACAA CCCCCACUGCUAAAUUUGACU GGCUU
AC_000161.1_4276*	CCTCAG GTCCCC CTCCAA CC	AC_0 0016 1.1_4 276	CGGGGUGGGGGGGCGGCGAGGG GCGGGGUGGGGAGCGGUGCCCA CGCUGCCUCUCUCCUCAGGUCCC CCUCCAACC
AC_000161.1_4276	CGGGGT GGGGGG GCGGCG	AC_0 0016 1.1_4 276	CGGGGUGGGGGGGCGGCGAGGG GCGGGGUGGGGAGCGGUGCCCA CGCUGCCUCUCUCCUCAGGUCCC CCUCCAACC
AC_000161.1_4278	AAAGAA GTTTGTT TGGGTTT TT	AC_0 0016 1.1_4 278	AAAGAAGUUUGUUUGGGUUUUU CUGUAAGUAUGGAAAUCCUCCA AUGAACUUUUUGGC
AC_000161.1_4278*	ATCCTCC AATGAA CTTTTTG GC	AC_0 0016 1.1_4 278	AAAGAAGUUUGUUUGGGUUUUU CUGUAAGUAUGGAAAUCCUCCA AUGAACUUUUUGGC
AC_000161.1_4396*	ACAAGT ATCCCAT TGCTCTA C	AC_0 0016 1.1_4 396	ACAAGUAUCCCAUUGCUCUACA GUGACUGUGUGUUGAGAGCGAU GGGACACUUGUAA
AC_000161.1_4396	AGAGCG ATGGGA CACTTGT AA	AC_0 0016 1.1_4 396	ACAAGUAUCCCAUUGCUCUACA GUGACUGUGUGUUGAGAGCGAU GGGACACUUGUAA



AC_000161.1_4416*	TCATCTC CAGTTG AGGCAG G	AC_0 0016 1.1_4 416	UCAUCUCCAGUUGAGGCAGGAA CCUCAGAGUUCCUCUGAUUUCA GACUCCGCUCACAGGGUCCCUGC AGAUUGGGGACAGGAGA
AC_000161.1_4416	TGCAGA TTGGGG ACAGGA GA	AC_0 0016 1.1_4 416	UCAUCUCCAGUUGAGGCAGGAA CCUCAGAGUUCCUCUGAUUUCA GACUCCGCUCACAGGGUCCCUGC AGAUUGGGGACAGGAGA
AC_000161.1_4496	ACCAGA ACGGAC TTTTTGG CCA	AC_0 0016 1.1_4 496	GCCAAAAAGUCCAUUCUGGGUU UUAUAACAUCUUACAAAAAACC AGAACGGACUUUUUGGCCA
AC_000161.1_4496*	GCCAAA AAGTCC ATTCTGG GTT	AC_0 0016 1.1_4 496	GCCAAAAAGUCCAUUCUGGGUU UUAUAACAUCUUACAAAAAACC AGAACGGACUUUUUGGCCA
AC_000161.1_4529*	CCTCTGC CTTGCTC CCAGT	AC_0 0016 1.1_4 529	UCAGGAGUUUGGGUAGAGUGGA GGCUACCCAGACAGGGCUCUUC UGGGUUUCUGACCUCCCUCUGC CUUGCUCCCAGU
AC_000161.1_4529>AC_000 161.1_4530	TCAGGA GTTTGG GTAGAG TGG	AC_0 0016 1.1_4 529	UCAGGAGUUUGGGUAGAGUGGA GGCUACCCAGACAGGGCUCUUC UGGGUUUCUGACCUCCCUCUGC CUUGCUCCCAGU
AC_000161.1_4529>AC_000 161.1_4530	TCAGGA GTTTGG GTAGAG TGG	AC_0 0016 1.1_4 530	UCUUUUGAAAGAAGUCCUCAGU GACUGGCCCCAGUAAAGCUCAG GAGUUUGGGUAGAGUGG
AC_000161.1_4530*	TCTTTTG	AC_0	UCUUUUGAAAGAAGUCCUCAGU

	AAAGAA GTCCTC AGT	0016 1.1_4 530	GACUGGCCCCAGUAAAGCUCAG GAGUUUGGGUAGAGUGG
AC_000161.1_4598	TATGGA GGAAGA GGAGAA GGCA	AC_0 0016 1.1_4 598	UCUCUCCUCCCACACCAUACCCC CGACUCCAAACAAAGGAGGUAU GGAGGAAGAGGAGAAGGCA
AC_000161.1_4598*	TCTCTCC TCCCAC ACCATAC C	AC_0 0016 1.1_4 598	UCUCUCCUCCCACACCAUACCCC CGACUCCAAACAAAGGAGGUAU GGAGGAAGAGGAGAAGGCA
AC_000161.1_4601*	CAGCCA TGCACC GCCTCG CCCGC	AC_0 0016 1.1_4 601	GGGCGCGCGCCGCGGCUGGAGC GGCGGGGAGAGGCCGGGCCACC UCCCCCUUCCCAGCCAUGCACC GCCUCGCCCCG
AC_000161.1_4601	GGGCGC GCGCCG CGGCTG GA	AC_0 0016 1.1_4 601	GGGCGCGCGCCGCGGCUGGAGC GGCGGGGAGAGGCCGGGCCACC UCCCCCUUCCCAGCCAUGCACC GCCUCGCCCCG
AC_000161.1_4647*	CCCCGA CCAGGG ATTGAA CCTGCG TT	AC_0 0016 1.1_4 647	UGCAGGAUCUUUCGUUGUGGUG CGUGGGAUCAGCUGCUCACAGG CAUAUGGGAUCUUAGUUCCCCG ACCAGGGAUUGAACCUGCGUU
AC_000161.1_4647>AC_000 180.1_21834	TGCAGG ATCTTTC GTTGTG GTG	AC_0 0016 1.1_4 647	UGCAGGAUCUUUCGUUGUGGUG CGUGGGAUCAGCUGCUCACAGG CAUAUGGGAUCUUAGUUCCCCG ACCAGGGAUUGAACCUGCGUU
AC_000167.1_11053*>AC_0	AAACTT	AC_0	UCAAAAAGCUCAUUUCAACUUU

00170.1_12965>AC_000159. 1_2216>AC_000161.1_4718	GAATGA ACCTTTT GGCC	0016 1.1_4 718	UCUGUUACCUCCUUUGGACAAA CUUGAAUGAACCUUUUGGCC
AC_000161.1_4718*	TCAAAA AGCTCAT TTCAACT TTTCTGT	AC_0 0016 1.1_4 718	UCAAAAAGCUCAUUUCAACUUU UCUGUUACCUCCUUUGGACAAA CUUGAAUGAACCUUUUGGCC
AC_000161.1_4727*	CCCTCCC TCTTTCT CTCTCT	AC_0 0016 1.1_4 727	GGUGGCGGGGGGAGGUCUCUCC CUUCCUCUCUCUCUCUUUCUCUC CCUCCCUCUUUCUCUCUCU
AC_000161.1_4727	GGTGGC GGGGGG AGGTCT	AC_0 0016 1.1_4 727	GGUGGCGGGGGGAGGUCUCUCC CUUCCUCUCUCUCUCUUUCUCUC CCUCCCUCUUUCUCUCUCU
AC_000162.1_4780*	AAACCT GAAAGG ACTTTTT G	AC_0 0016 2.1_4 780	AAACGUUCGUUAGGGUUUUCUG GUAACAUCUUAGGGAAAAACCU GAAAGGACUUUUUG
AC_000162.1_4780	AAACGT TCGTTAG GGTTTT	AC_0 0016 2.1_4 780	AAACGUUCGUUAGGGUUUUCUG GUAACAUCUUAGGGAAAAACCU GAAAGGACUUUUUG
AC_000162.1_4815	ACGGAC AGGATG AGCAGC GGGG	AC_0 0016 2.1_4 815	UCGGUGUUUACAUCUGUCCCC GACGCCUAGUCUACGUGGCUGG CUCCACGGACAGGAUGAGCAGC GGGG
AC_000162.1_4815*	TCGGTG TTTACAT	AC_0 0016	UCGGUGUUUACAUCUGUCCCC GACGCCUAGUCUACGUGGCUGG

	CCTGTCC CCGA	2.1_4 815	CUCCACGGACAGGAUGAGCAGC GGGG
AC_000162.1_4968*>AC_00 0162.1_4966*	AAACCC AAACAA ACCTTTT	AC_0 0016 2.1_4 966	AAGAUUCGUUCAGGUUUUUCCA UAAGAUCUUAUAGAAAAACCCA AACAAACCUUUU
AC_000162.1_4968>AC_000 162.1_4966	AAGATT CGTTCA GGTTTTT	AC_0 0016 2.1_4 966	AAGAUUCGUUCAGGUUUUUCCA UAAGAUCUUAUAGAAAAACCCA AACAAACCUUUU
AC_000162.1_4968*>AC_00 0162.1_4966*	AAACCC AAACAA ACCTTTT	AC_0 0016 2.1_4 968	AAGAUUCGUUCAGGUUUUUCCA UAACAUUUUUAUAGAAAAACCCA AACAAACCUUUU
AC_000162.1_4968>AC_000 162.1_4966	AAGATT CGTTCA GGTTTTT	AC_0 0016 2.1_4 968	AAGAUUCGUUCAGGUUUUUCCA UAACAUUUUUAUAGAAAAACCCA AACAAACCUUUU
AC_000162.1_5023	CAGGGA CTGGGG GATCGG GA	AC_0 0016 2.1_5 023	CCCUCCGGCCCCGUUCCUGAC CCCUCCCAGUGAGCAGCUCAGG GACUGGGGGGAUCGGGA
AC_000162.1_5023*	CCCTCC GGCCCC GTTTCCC TGAC	AC_0 0016 2.1_5 023	CCCUCCGGCCCCGUUCCUGAC CCCUCCCAGUGAGCAGCUCAGG GACUGGGGGGAUCGGGA
AC_000162.1_5076	AAAAAG GTCGTTC AGTTTTT	AC_0 0016 2.1_5	AAAAAGGUCGUUCAGUUUUUUU CAUAAGAUGUUAUGAAAAGCUG GACAAAAUUUUUGG

	T	076	
AC_000162.1_5076*	AGCTGG ACAAAA TTTTTGG	AC_0 0016 2.1_5 076	AAAAAGGUCGUUCAGUUUUUUU CAUAAGAUGUUAUGAAAAGCUG GACAAAAUUUUUGG
AC_000162.1_5160*	TCGGCT CCCTGCT TTCCCCA GG	AC_0 0016 2.1_5 160	UGAGGGGCAGAGAGCCAGAGCU UGGAGUUUCGGCUGCCUGCUUU CCCCAGG
AC_000162.1_5160	TGAGGG GCAGAG AGCCAG AG	AC_0 0016 2.1_5 160	UGAGGGGCAGAGAGCCAGAGCU UGGAGUUUCGGCUGCCUGCUUU CCCCAGG
AC_000162.1_5212>AC_000 168.1_11192	AAATGTT CGTTCG GGTTTT	AC_0 0016 2.1_5 212	AAAUGUUCGUUCGGGUUUUCAC AUAAGAGGUGUGAAAAUCCUGA AUGAGCUUUUUG
AC_000162.1_5212*	AATCCTG AATGAG CTTTTTG	AC_0 0016 2.1_5 212	AAAUGUUCGUUCGGGUUUUCAC AUAAGAGGUGUGAAAAUCCUGA AUGAGCUUUUUG
AC_000162.1_5213*	AAACTC GAGCAA ACTTTTT GGC	AC_0 0016 2.1_5 213	AAAGGUUCAUUCGGGUUUUUC UUAAGAUGUUACAGAAAAACUC GAGCAAACUUUUUGGC
AC_000162.1_5213	AAAGGT TCATTCG GGTTTTT	AC_0 0016 2.1_5 213	AAAGGUUCAUUCGGGUUUUUC UUAAGAUGUUACAGAAAAACUC GAGCAAACUUUUUGGC

AC_000162.1_5246	AGAAGT AGGAGA GGGACT TGG	AC_0 0016 2.1_5 246	AGAAGUAGGAGAGGGACUUGGA GAGGAAACUUGGGAAAUGAGUG GGUUUUCAGGGUCUCUCUUCUA UUUCAGCUCC
AC_000162.1_5246*	GGGTCT CTCTTCT ATTCAG CTCC	AC_0 0016 2.1_5 246	AGAAGUAGGAGAGGGACUUGGA GAGGAAACUUGGGAAAUGAGUG GGUUUUCAGGGUCUCUCUUCUA UUUCAGCUCC
AC_000165.1_8809>AC_000178.1_20679>AC_000162.1_5284	TGGGGT GGGAGG ATGGAG AG	AC_0 0016 2.1_5 284	UGGGGUGGGAGGAUGGAGAGGU UCUAGGGGGUGCUUUUGCUCUCC ACGGGAUGCUIUUUUUGUIUUUUG UAAAUIUUU
AC_000162.1_5284*	TTTTGTT TTTGTA ATTTT	AC_0 0016 2.1_5 284	UGGGGUGGGAGGAUGGAGAGGU UCUAGGGGGUGCUUUUGCUCUCC ACGGGAUGCUIUUUUUGUIUUUUG UAAAUIUUU
AC_000162.1_5324*	CCCACA CCTTCCT ACTCT	AC_0 0016 2.1_5 324	GGUGGGGUGGUGAGGGGGGGGA GGCCCCAGGGUUAGCAAAGCUC CUCCUGCCCCCACACCUUCCUAC UCU
AC_000162.1_5324	GGTGGG GTGGTG AGGGGG	AC_0 0016 2.1_5 324	GGUGGGGUGGUGAGGGGGGGGA GGCCCCAGGGUUAGCAAAGCUC CUCCUGCCCCCACACCUUCCUAC UCU
AC_000162.1_5368>AC_000162.1_5367	CCGTGG GACAGA GTGGAA GGAGG	AC_0 0016 2.1_5 367	UCUCUGGGUCUCCAGUGGACCA GGCAGCCCCGAAGCUGGGGUCC CGCAGGGGCCGUGGGACAGAGU GGAAGGAGG
AC_000162.1_5367*	TCTCTGG	AC_0	UCUCUGGGUCUCCAGUGGACCA

	GTCTCC AGTGGA C	0016 2.1_5 367	GGCAGCCCCGAAGCUGGGGUCC CGCAGGGGCCGUGGGACAGAGU GGAAGGAGG
AC_000162.1_5368>AC_000 162.1_5367	CCGTGG GACAGA GTGGAA GGAGG	AC_0 0016 2.1_5 368	CCGUGGGACAGAGUGGAAGGAG GAUCCGUGCUCACCAGGCCCUCC AUCCCCUCUUGCCCACCAGU
AC_000162.1_5368*	TCCATCC CCTCTTG CCCACC AGT	AC_0 0016 2.1_5 368	CCGUGGGACAGAGUGGAAGGAG GAUCCGUGCUCACCAGGCCCUCC AUCCCCUCUUGCCCACCAGU
AC_000162.1_5379*	AGCTCT GCCCC TGACCT GCT	AC_0 0016 2.1_5 379	AGCUCUGCCCCCUGACCUGCUGC CUCUCACUUCUCCUACUGGGGU UCCACAGGGAUUGGGGAGGGCA CU
AC_000162.1_5379	CAGGGA TTGGGG AGGGCA CT	AC_0 0016 2.1_5 379	AGCUCUGCCCCCUGACCUGCUGC CUCUCACUUCUCCUACUGGGGU UCCACAGGGAUUGGGGAGGGCA CU
AC_000162.1_5388	CAGAAG GAGGGG GTGGTC GGC	AC_0 0016 2.1_5 388	CAGAAGGAGGGGGUGGUCGGCC GUGUCAGAACCCUGAGGUACCG UCCGCCCCCUCCCCUGGCU
AC_000162.1_5388*	CGTCCG CCCCCTC CCCTGG CT	AC_0 0016 2.1_5 388	CAGAAGGAGGGGGUGGUCGGCC GUGUCAGAACCCUGAGGUACCG UCCGCCCCCUCCCCUGGCU
AC_000162.1_5393*	CGCCAG AGGACC	AC_0 0016	CGCCAGAGGACCGGCCCCACAU GGGGCAGAACAAAGGGAAGAAG

	GGCGCC CACATG GG	2.1_5 393	CUCUAGCGGCGGCGGCGCCGGG GGGCGAG
AC_000162.1_5394>AC_000 162.1_5393	CGGCGG CGGCGC CGGGGG GCGAG	AC_0 0016 2.1_5 393	CGCCAGAGGACCGGCGCCACAU GGGCGAGAACAAGGGAAGAAG CUCUAGCGGCGGCGGCGCCGGG GGGCGAG
AC_000162.1_5394>AC_000 162.1_5393	CGGCGG CGGCGC CGGGGG GCGAG	AC_0 0016 2.1_5 394	CGGCGGCGGCGCCGGGGGGCGA GGGCGGGCGGCGGGCGCCUACC UGGGUCUCCGCGGCUUCCUCCGC GGCU
AC_000162.1_5394*	GGTCTC CGCGGC TTCCTCC GCGGCT	AC_0 0016 2.1_5 394	CGGCGGCGGCGCCGGGGGGCGA GGGCGGGCGGCGGGCGCCUACC UGGGUCUCCGCGGCUUCCUCCGC GGCU
AC_000162.1_5412	AGGGCT GGAGGG GGCGGG	AC_0 0016 2.1_5 412	AGGGCUGGAGGGGGCGGGGUGG UCCUGAGCAUCUAGCCCCAU
AC_000162.1_5412*	GGTCCC TGAGCA TCTAGCC CCAT	AC_0 0016 2.1_5 412	AGGGCUGGAGGGGGCGGGGUGG UCCUGAGCAUCUAGCCCCAU
AC_000162.1_5436	CCTCGG ACAGTG CCAGGT	AC_0 0016 2.1_5 436	CCUCGGACAGUGCCAGGUUAGC CCACGCUUUCACAGGCGGGCGG CUGACUUUUCGCUUCCAAGGCC
AC_000162.1_5436*	TTTTCGC TTCCAA	AC_0 0016	CCUCGGACAGUGCCAGGUUAGC CCACGCUUUCACAGGCGGGCGG



	GGCC	2.1_5 436	CUGACUUUUCGCUUCCAAGGCC
AC_000162.1_5579*	AAAAAC CCGAAT GAACTT TTTG	AC_0 0016 2.1_5 579	AAA AUGUUCGUUGGGGUUUUUG CAUAAGAUGUUAUAGAAAAACC CGAAUGAACUUUUUG
AC_000162.1_5579	AAAATG TTCGTTG GGGTTTT T	AC_0 0016 2.1_5 579	AAA AUGUUCGUUGGGGUUUUUG CAUAAGAUGUUAUAGAAAAACC CGAAUGAACUUUUUG
AC_000162.1_5601*	AGAGCC AGTGGC CCCGCG GGAG	AC_0 0016 2.1_5 601	AGAGCCAGUGGCCCGCGGGAG CGGGAGCGGGGCAUGGCUGAA
AC_000162.1_5601	GGAGCG GGGCCA TGGCTG AA	AC_0 0016 2.1_5 601	AGAGCCAGUGGCCCGCGGGAG CGGGAGCGGGGCAUGGCUGAA
AC_000162.1_5630*	CAGTCC CCAACC TTTTTGG CACCAA GG	AC_0 0016 2.1_5 630	CAGUCCCCAACCUUUUUGGCACC AAGGACAGUUUUGUGGAAGAU AUUUUCCUUGGACUGGGGUGG GGGCAUGGUU
AC_000162.1_5630	TTGGAC TGGGGT GGGGGC ATGGTT	AC_0 0016 2.1_5 630	CAGUCCCCAACCUUUUUGGCACC AAGGACAGUUUUGUGGAAGAU AUUUUCCUUGGACUGGGGUGG GGGCAUGGUU
AC_000162.1_5661*	AAAACC AAATGA	AC_0 0016	AAAAGAUUUGUUUGGGUUUUC UGUAACAUCUUGCAGAAAAACC

	ACTTTTT GGCT	2.1_5 661	AAAUGAACUUUUUGGCU
AC_000162.1_5661>AC_000 172.1_14626	AAAAGA TTTGTTT GGGTTTT	AC_0 0016 2.1_5 661	AAAAGAUUUGUUUGGGUUUUC UGUAACAUCUUGCAGAAAAACC AAAUGAACUUUUUGGCU
AC_000162.1_5683*>AC_00 0184.1_24367*	ATCCCAC ATTTGCG TATGCCG AGCC	AC_0 0016 2.1_5 683	CUCGAGAAUAUGCGGGUGGACU CCUGAGGCUCGAUCCACAUUU GCGUAUGCCGAGCC
NW_003099755.1_27230>A C_000162.1_5683	CTCGAG AATATGC GGGTGG ACTCC	AC_0 0016 2.1_5 683	CUCGAGAAUAUGCGGGUGGACU CCUGAGGCUCGAUCCACAUUU GCGUAUGCCGAGCC
AC_000162.1_5707	TCCAGC GGTGGA GGTAGG AAT	AC_0 0016 2.1_5 707	UCCAGCGGUGGAGGUAGGAAUC UCUUCUCCUCUUGUGUUGAUGG UCCUGCCUGCCCAUCGCAGAU U
AC_000162.1_5707*	TTCCTGC CTGCCC ATCGCA GATT	AC_0 0016 2.1_5 707	UCCAGCGGUGGAGGUAGGAAUC UCUUCUCCUCUUGUGUUGAUGG UCCUGCCUGCCCAUCGCAGAU U
AC_000162.1_5742	CAGGAT GGAGAA GGTGGT AAACC	AC_0 0016 2.1_5 742	UUGAUCUCCUUUCCUCCUCUCC CCAGGAUGGAGAAGGUGGUAAA CC
AC_000162.1_5742*	TTGATCT CCTTTTC CTCCTCT	AC_0 0016 2.1_5	UUGAUCUCCUUUCCUCCUCUCC CCAGGAUGGAGAAGGUGGUAAA CC

	C	742	
AC_000162.1_5786	AGAGGA AACTCT GGTTGA GG	AC_0 0016 2.1_5 786	UAUUACCAUCCUUUUUCACAG AAGAGGAAACUCUGGUUGAGG
AC_000162.1_5786*	TATTACC ATTCCTT TTT	AC_0 0016 2.1_5 786	UAUUACCAUCCUUUUUCACAG AAGAGGAAACUCUGGUUGAGG
AC_000162.1_5872*	CCCAGG GTGCGG TTTCTCA CGAG	AC_0 0016 2.1_5 872	CCCAGGGUGCGGUUUCUCACGA GGUACGACGGCGAGGUCAGUGA GCCUAUCGUGGGGCGCCAGGGA AGUGGGGU
AC_000162.1_5872	CGTGGG GCGCCA GGGAAG TGGGGT	AC_0 0016 2.1_5 872	CCCAGGGUGCGGUUUCUCACGA GGUACGACGGCGAGGUCAGUGA GCCUAUCGUGGGGCGCCAGGGA AGUGGGGU
AC_000162.1_5884*	CACGTG CCTGTCC CTGCCTC GGCG	AC_0 0016 2.1_5 884	CACGUGCCUGUCCCUGCCUCGGC GGGUGAUUUGAGCCGAGGCUGG AGAACGGUGCAGA
AC_000162.1_5884	CGAGGC TGGAGA ACGGTG CAGA	AC_0 0016 2.1_5 884	CACGUGCCUGUCCCUGCCUCGGC GGGUGAUUUGAGCCGAGGCUGG AGAACGGUGCAGA
AC_000162.1_5970	CTCTGG GGGGAT CTGGGG ACACT	AC_0 0016 2.1_5 970	UGCUCAGGGCCCAGAUGUGCG ACCGCUGCUGAGCAGCCCUGCUC UGGGGGGAUCUGGGGACACU

AC_000162.1_5970*	TGCTCC AGGGCC CAGATG TGCG	AC_0 0016 2.1_5 970	UGCUC CAGGGCCCAGAUGUGCG ACCGCUGCUGAGCAGCCCUGCUC UGGGGGGAUCUGGGGACACU
AC_000162.1_5982	GAGGGA CAAGGG GACAGC	AC_0 0016 2.1_5 982	UGUCAAGCUUCCUUUCAGGGGC CCUUCAGUGAUCUGGGGGCCAC AUUCUGGAGGGACAAGGGGACA GC
AC_000162.1_5982*	TGTCAA GCTTCCT TTCA	AC_0 0016 2.1_5 982	UGUCAAGCUUCCUUUCAGGGGC CCUUCAGUGAUCUGGGGGCCAC AUUCUGGAGGGACAAGGGGACA GC
AC_000162.1_5990	ATCCAC TCCTGA CACCA	AC_0 0016 2.1_5 990	GUGAUCCAGAAGUGAACUGCCA UCCACUCCUGACACCA
AC_000162.1_5990*	GTGATCC AGAAGT GAACTG C	AC_0 0016 2.1_5 990	GUGAUCCAGAAGUGAACUGCCA UCCACUCCUGACACCA
AC_000163.1_6167*	CCGCCG CGTATCA GTCCGC CAA	AC_0 0016 3.1_6 167	CCGCCGCGUAUCAGUCCGCCAAC GCCGCCGUCGCGAGCACAGGAC GAAUCUAAGGCUGAAGGCGGAC GGUU
AC_000163.1_6167	CTAAGG CTGAAG GCGGAC GGTT	AC_0 0016 3.1_6 167	CCGCCGCGUAUCAGUCCGCCAAC GCCGCCGUCGCGAGCACAGGAC GAAUCUAAGGCUGAAGGCGGAC GGUU
AC_000163.1_6257	TATAGTC	AC_0	UAUGUUAUUCACCUGACUAUAU

	AGGTGA ATAACA GGAA	0016 3.1_6 257	CUGGUGAUUAUAGUCAGGUGAAU  AACAGGAA
AC_000163.1_6257*	TATGTTA TTCACCT GACTATA T	AC_0 0016 3.1_6 257	UAUGUUAUUCACCUGACUAUUAU CUGGUGAUUAUAGUCAGGUGAAU  AACAGGAA
AC_000163.1_6296*	AAAAAC CCAAAC AAATTTT TTGGC	AC_0 0016 3.1_6 296	CAAAAAGUUCGUCCAGAUUUUU GUAUAUUUUUAUGGAAAACCC  AAACAAAUUUUUUGGC
AC_000163.1_6296	CAAAAA GTTCGTC CAGATTT TT	AC_0 0016 3.1_6 296	CAAAAAGUUCGUCCAGAUUUUU GUAUAUUUUUAUGGAAAACCC  AAACAAAUUUUUUGGC
AC_000160.1_2452*>AC_00 0158.1_789>AC_000163.1_6 322	AAATGTT CTTTTGG GTTTTT	AC_0 0016 3.1_6 322	AAAUGUUCUUUUGGGUUUUUCU GUAACAUCUUAUGGAAAAGCUC  UAAUGAUCAUUUUU
AC_000163.1_6322*	AAGCTC TAATGAT CATTTTT	AC_0 0016 3.1_6 322	AAAUGUUCUUUUGGGUUUUUCU GUAACAUCUUAUGGAAAAGCUC  UAAUGAUCAUUUUU
AC_000163.1_6338*	ACACCT AGATAA CCGAGC GG	AC_0 0016 3.1_6 338	UCGUGGGGGUCUGGACGGUCA CAUCUCCUGAGAAGGUGCGCU UGUUGUACACCUAGAUAACCGA  GCGG
AC_000163.1_6338	TCGTGG GGGTCT	AC_0 0016	UCGUGGGGGUCUGGACGGUCA CAUCUCCUGAGAAGGUGCGCU

	GGACGG TC	3.1_6 338	UGUUGUACACCUAGAUAACCGA GCGG
AC_000163.1_6416	AAAACA CGAACA AACTTTT TGG	AC_0 0016 3.1_6 416	AAACGUUCGUUCAGGUUUUUCU AGAAUAUUUUGCAGGAAAACAC GAACAAACUUUUUGG
AC_000163.1_6416*	AAACGT TCGTTCA GGTTTTT	AC_0 0016 3.1_6 416	AAACGUUCGUUCAGGUUUUUCU AGAAUAUUUUGCAGGAAAACAC GAACAAACUUUUUGG
AC_000163.1_6432	AAAAAA TTTTGTT TGGGTTT TT	AC_0 0016 3.1_6 432	AAAAAAUUUUGUUUGGGUUUUU CCAUUAGAUGGUAUGGAAAACC CAAUGAACUUUUU
AC_000163.1_6432*	AAACCC AAATGA ACTTTTT	AC_0 0016 3.1_6 432	AAAAAAUUUUGUUUGGGUUUUU CCAUUAGAUGGUAUGGAAAACC CAAUGAACUUUUU
AC_000163.1_6437*	ACCTTCC CCCGTC CCTGCC C	AC_0 0016 3.1_6 437	ACCUUCCCCCGUCCUGCCCUCG GUUGUUUGCAGGUGGGUGGGAA GGGACGGAGGUGGUGGUGA
AC_000163.1_6437	GAAGGG ACGGAG GTGGTG GTGA	AC_0 0016 3.1_6 437	ACCUUCCCCCGUCCUGCCCUCG GUUGUUUGCAGGUGGGUGGGAA GGGACGGAGGUGGUGGUGA
AC_000163.1_6446>AC_000186.1_25044	AAAAGT TCTTTCG GGTTTT	AC_0 0016 3.1_6	AAAAGUUCUUUCGGUUUUCUG UACCGGCUUAUGGAAAACACA AAUGAACUUUUUGGCCA

		446	
AC_000163.1_6446*	AACACA AATGAA CTTTTTG GCCA	AC_0 0016 3.1_6 446	AAAAGUUCUUUCGGGUUUUCUG UACCGGCUUAUGGAAAAACACA AAUGAACUUUUUGGCCA
AC_000163.1_6492	AGGCGA GATGGG TGGCTG	AC_0 0016 3.1_6 492	AGGCGAGAUGGGUGGCUGUCGC CGCUCCUGCUUCU
AC_000163.1_6492*	GCCGCT CCTGCTT CT	AC_0 0016 3.1_6 492	AGGCGAGAUGGGUGGCUGUCGC CGCUCCUGCUUCU
AC_000163.1_6559	AACAGG GATGAG CTATTGT TT	AC_0 0016 3.1_6 559	AACAGGGAUGAGCUAUUGUUUU AAUGCCUGGUAUUACAUUUCAU GACAUUAGCCCAUUCCUGUUUU
AC_000163.1_6559*	ACATTAG CCCATTC CTGTTTT	AC_0 0016 3.1_6 559	AACAGGGAUGAGCUAUUGUUUU AAUGCCUGGUAUUACAUUUCAU GACAUUAGCCCAUUCCUGUUUU
AC_000163.1_6568>NW_00 3097901.1_27167	CTTGTTG GGATACT GGGCGG T	AC_0 0016 3.1_6 568	UGCAAGCAGGCUCCCAUUUGCU AACCAAGACUUGUUGGGAUACU GGGCGGU
AC_000163.1_6568*>NW_0 03097901.1_27167*	TGCAAG CAGGCT CCCATT GCT	AC_0 0016 3.1_6 568	UGCAAGCAGGCUCCCAUUUGCU AACCAAGACUUGUUGGGAUACU GGGCGGU

AC_000163.1_6623	ATGGGA CAGACA CACAGG TGAA	AC_0 0016 3.1_6 623	AUGGGACAGACACACAGGUGAA UUAACGACCACCAUGCUAGUUC ACCUAUGUGUCUGUCCCCAUUU A
AC_000163.1_6623*	CACCTAT GTGTCT GTCCCC ATTTA	AC_0 0016 3.1_6 623	AUGGGACAGACACACAGGUGAA UUAACGACCACCAUGCUAGUUC ACCUAUGUGUCUGUCCCCAUUU A
AC_000163.1_6638	AAGGAG GAGGAA GAGGCA	AC_0 0016 3.1_6 638	CCUCGACCUCUGGUGAAAAGG GACCUCCAAGAGGUGGUGGCAG GGGAGGUCAAGGAGGAGGAAGA GGCA
AC_000163.1_6638*	CCTCGA CCTCCTG GTGAA	AC_0 0016 3.1_6 638	CCUCGACCUCUGGUGAAAAGG GACCUCCAAGAGGUGGUGGCAG GGGAGGUCAAGGAGGAGGAAGA GGCA
AC_000163.1_6657	AAGGCA GGCAGA GTAGGG CTGT	AC_0 0016 3.1_6 657	AAGGCAGGCAGAGUAGGGCUGU GGAGGUUGCAUUAUGGCCCCUG CCCUUCCUGCCUGU
AC_000163.1_6657*	GGCCCC TGCCCTT CCTGCCT GT	AC_0 0016 3.1_6 657	AAGGCAGGCAGAGUAGGGCUGU GGAGGUUGCAUUAUGGCCCCUG CCCUUCCUGCCUGU
AC_000163.1_6683	ACCGGC GCAGCG GCTGAC CTGG	AC_0 0016 3.1_6 683	ACCGGCGCAGCGGCUGACCUGG GAAGGCACUGGCCCGGGUAC CGUCACGUCGGAG
AC_000163.1_6683*	GGGTTA	AC_0	ACCGGCGCAGCGGCUGACCUGG



	CCGTCA CGTCGG AG	0016 3.1_6 683	GAAGGCACUGGCCCCGGGUUAC CGUCACGUCGGAG
AC_000163.1_6809*	AAATCC ATACAA ATGTCTT GG	AC_0 0016 3.1_6 809	AAUAAGUUCGUUCAGGUUUUUC UGUUACAGCAUAUGGAAAAAUC CAUACAAAUGUCUUGG
AC_000163.1_6809	AATAAG TTCGTTC AGGTTTT T	AC_0 0016 3.1_6 809	AAUAAGUUCGUUCAGGUUUUUC UGUUACAGCAUAUGGAAAAAUC CAUACAAAUGUCUUGG
AC_000163.1_6897*	AAAAAC CTGAAC AAACGT TT	AC_0 0016 3.1_6 897	AAAAAGUUUGUUUGGAUUUUC UGUUACAUCUCAUGGAAAAAAC CUGAACAAACGUUU
AC_000163.1_6897>AC_000158.1_917	AAAAAG TTTGTTT GGATTTT C	AC_0 0016 3.1_6 897	AAAAAGUUUGUUUGGAUUUUC UGUUACAUCUCAUGGAAAAAAC CUGAACAAACGUUU
AC_000163.1_6910	GAGGAT GAGGAC ACGGAG ACT	AC_0 0016 3.1_6 910	GCUCGUGGCUCAUCAGAUUCAGA GAGCGUGGAAGCCAUGAGGAU GAGGACACGGAGACU
AC_000163.1_6910*	GCTCGT GGCTCAT CAGATC AG	AC_0 0016 3.1_6 910	GCUCGUGGCUCAUCAGAUUCAGA GAGCGUGGAAGCCAUGAGGAU GAGGACACGGAGACU
AC_000163.1_6917	GACCTG TGCGTG	AC_0 0016	GACCUGUGCGUGUACACUCAUG CCCACGUGCAUGAGUGUGCAUC

	TACTCT AT	3.1_6 917	CACGGGGACC
AC_000163.1_6917*	TGAGTG TGCATCC ACGGGG ACC	AC_0 0016 3.1_6 917	GACCUGUGCGUGUACACUCAUG CCCACGUGCAUGAGUGUGCAUC CACGGGGACC
AC_000163.1_6923	AAAAAG ATCGTTC AGGTTTT T	AC_0 0016 3.1_6 923	AAAAAGAUCGUUCAGGUUUUUC CAUCCCAUCUAUGGAAAAACCC AAAUGAAAUUUUUGG
AC_000163.1_6923*	AAACCC AAATGA AATTTTT GG	AC_0 0016 3.1_6 923	AAAAAGAUCGUUCAGGUUUUUC CAUCCCAUCUAUGGAAAAACCC AAAUGAAAUUUUUGG
AC_000163.1_6939*	TCACCC CTCCTGT TCCCGG ACG	AC_0 0016 3.1_6 939	UUUGGGGAUUGGGGGACGAUUU CCUCCCUGAUGGAAAGGAUGUG UGAGGAGCAAUCACCCCUCCUG UUCCCGGACG
AC_000163.1_6940>AC_000 163.1_6939	TTTGGG GATTGG GGGACG ATT	AC_0 0016 3.1_6 939	UUUGGGGAUUGGGGGACGAUUU CCUCCCUGAUGGAAAGGAUGUG UGAGGAGCAAUCACCCCUCCUG UUCCCGGACG
AC_000163.1_6940*	GTGACC CTGGTTC CTGAGG G	AC_0 0016 3.1_6 940	GUGACCCUGGUUCCUGAGGGAA AAGGAGAGGGUCCUUUGGGGAU UGGGGGACGAUU
AC_000163.1_6940>AC_000 163.1_6939	TTTGGG GATTGG GGGACG	AC_0 0016 3.1_6	GUGACCCUGGUUCCUGAGGGAA AAGGAGAGGGUCCUUUGGGGAU UGGGGGACGAUU

	ATT	940	
AC_000163.1_6943*	AAACCC GAGGGC CCTTTTT GG	AC_0 0016 3.1_6 943	AAAGAGUUCGUUCGGGUUUUUC CAU AACGUUUUACAGAAAAACC CGAGGGCCCUUUUUGG
AC_000163.1_6943	AAAGAG TTCGTC GGGTTTT T	AC_0 0016 3.1_6 943	AAAGAGUUCGUUCGGGUUUUUC CAU AACGUUUUACAGAAAAACC CGAGGGCCCUUUUUGG
AC_000164.1_6965	GCTGGC AGACCC GGACTG	AC_0 0016 4.1_6 965	UCCGCGUCUGCCCGCCCGGCU CUCCGGGUUCUCUCCACAACCC CACCUGGCGCUGGCAGACCCGG ACUG
AC_000164.1_6965*	TTCCGC GTCTGC CCGCC	AC_0 0016 4.1_6 965	UCCGCGUCUGCCCGCCCGGCU CUCCGGGUUCUCUCCACAACCC CACCUGGCGCUGGCAGACCCGG ACUG
AC_000164.1_7035*	GGTATT ATTAGTT ATCTACT T	AC_0 0016 4.1_7 035	GGUAUUUAUUAGUUAUCUACUU UAUAUCUAGUAAUUAGAUAAU AAUAAAAACCU
AC_000164.1_7035	TTAGATA ACTAATA AAAACC TG	AC_0 0016 4.1_7 035	GGUAUUUAUUAGUUAUCUACUU UAUAUCUAGUAAUUAGAUAAU AAUAAAAACCU
AC_000164.1_7038*	CCCCC CCTCCCC CCGCC TGC	AC_0 0016 4.1_7 038	UGGGCGGAGGUGGGGCAGGGGG CCCCAAAUGGGCUUGCCCCCCC CUCCCCCGCCUGC

AC_000164.1_7038	TGGGCG GAGGTG GGGCAG GGGGCC	AC_0 0016 4.1_7 038	UGGGCGGAGGUGGGGCAGGGGG CCCCCAAUGGGCUUGCCCCCCC CUCCCCCGCCCUGC
AC_000164.1_7040	AAAGCA GGGAGG GGGGCA GTTCT	AC_0 0016 4.1_7 040	AAAGCAGGGAGGGGGGCAGUUC UUCAUCUCCCGAGCCCAGCAGA GGGCUCUGGGAGGAACAGAGCG GCCCCAGGUGCUGAGU
AC_000164.1_7040*	AGCGGC CCCAGG TGCTGA GT	AC_0 0016 4.1_7 040	AAAGCAGGGAGGGGGGCAGUUC UUCAUCUCCCGAGCCCAGCAGA GGGCUCUGGGAGGAACAGAGCG GCCCCAGGUGCUGAGU
AC_000164.1_7050	TCTGCAT CCGAGG ACTCAA CC	AC_0 0016 4.1_7 050	UCUGCAUCCGAGGACUCAACCC AUUUGAUUGGCGGUUGGUUGAA UCCACAGAUGUGAGAC
AC_000164.1_7050*	TTGAATC CACAGA TGTGAG AC	AC_0 0016 4.1_7 050	UCUGCAUCCGAGGACUCAACCC AUUUGAUUGGCGGUUGGUUGAA UCCACAGAUGUGAGAC
AC_000164.1_7142*	AAAAAC CAGAGA GAACTT TTCG	AC_0 0016 4.1_7 142	AAAAGUUUGGUUGGGUUUUUCU GCACAAUCUUAAGAAAAACCA GAGAGAACUUUUCG
AC_000164.1_7142>AC_000 165.1_9210	AAAAGT TTGGTTG GGTTTTT CT	AC_0 0016 4.1_7 142	AAAAGUUUGGUUGGGUUUUUCU GCACAAUCUUAAGAAAAACCA GAGAGAACUUUUCG
AC_000164.1_7150*	CTCACCT	AC_0	UGAGAUAGAGAAGGAUGGAGGU

	CCCTCTC TTTCTCC AC	0016 4.1_7 150	GCCCAGCUCUGCCACCUCACCUC CCUCUCUUUCUCCAC
AC_000164.1_7150	TGAGAT AGAGAA GGATGG AGGT	AC_0 0016 4.1_7 150	UGAGAUAGAGAAGGAUGGAGGU GCCCAGCUCUGCCACCUCACCUC CCUCUCUUUCUCCAC
AC_000164.1_7182*	CCCCTC GGACAC CCCACC CCCTC	AC_0 0016 4.1_7 182	CGGGGACUGGGGCGGGGAGGGC GGAGUGACGCCCACUGGACACC CCACCCCCUC
AC_000164.1_7182	CGGGGA CTGGGG CGGGGA GGGCG	AC_0 0016 4.1_7 182	CGGGGACUGGGGCGGGGAGGGC GGAGUGACGCCCACUGGACACC CCACCCCCUC
AC_000164.1_7986*>AC_00 0164.1_7349*	AGTATTA TTCCATA CTTAAG G	AC_0 0016 4.1_7 349	AGUAUUAUCCAUACUUAAGGC UACGGUGGCUGUAGCCUUAAGU AUGGAAUAAUACUGU
AC_000164.1_7986>AC_00 164.1_7349	TTAAGTA TGGAAT AATACTG T	AC_0 0016 4.1_7 349	AGUAUUAUCCAUACUUAAGGC UACGGUGGCUGUAGCCUUAAGU AUGGAAUAAUACUGU
AC_000164.1_7546	CAGAGT TCTACA GTCAGA	AC_0 0016 4.1_7 546	CAGAGUUCUACAGUCAGAGGAC UGUCUGAACGAGUGCUCUGUU
AC_000164.1_7546*	TGAACG AGTGCT	AC_0 0016	CAGAGUUCUACAGUCAGAGGAC UGUCUGAACGAGUGCUCUGUU

	CTGTT	4.1_7 546	
AC_000164.1_7566>AC_000 180.1_21398	TGGCCA AAAAGG TCGTTTG GGT	AC_0 0016 4.1_7 566	UGGCCAAAAAGGUCGUUUGGGU UUUCCAUAAGAACAUUCAUGG CAAACUUGAAUGUACUUUUUG GCCAAC
AC_000164.1_7566*	TTGAATG TACTTTT TGGCCA AC	AC_0 0016 4.1_7 566	UGGCCAAAAAGGUCGUUUGGGU UUUCCAUAAGAACAUUCAUGG CAAACUUGAAUGUACUUUUUG GCCAAC
AC_000164.1_7600	AAAATG TTTGTTT GGATGTT TT	AC_0 0016 4.1_7 600	AAAUGUUUGUUUGGAUGUUUU GUAAUAGCUUAGAAAACACUCG AACAAACAUUUUGG
AC_000164.1_7600*	AACACT CGAACA AACATTT TGG	AC_0 0016 4.1_7 600	AAAUGUUUGUUUGGAUGUUUU GUAAUAGCUUAGAAAACACUCG AACAAACAUUUUGG
AC_000164.1_7629	TGCCCA CACGCG TACGCC AGCG	AC_0 0016 4.1_7 629	UGCCCACACGCGUACGCCAGCGU GACUUCACCUGCUGGUGUGUGC GUGUGGCUG
AC_000164.1_7629*	TGGTGT GTGCGT GTGGCT G	AC_0 0016 4.1_7 629	UGCCCACACGCGUACGCCAGCGU GACUUCACCUGCUGGUGUGUGC GUGUGGCUG
AC_000164.1_7631	CTGGAG GTGGCG GCGGCG	AC_0 0016 4.1_7	CUGGAGGUGGCGGCGGCGGCGG CGGCAGCGGCGGUGGCGACACG UCCCAGCC

	GCGGCG G	631	
AC_000164.1_7631*	GCGGCG GTGGCG ACACGT CCCAGC C	AC_0 0016 4.1_7 631	CUGGAGGUGGCGGCGGCGGCGG CGGCAGCGGCGGUGGCGACACG UCCCAGCC
AC_000164.1_7683*	TGACCT CCTGTCT CTGTCA CAG	AC_0 0016 4.1_7 683	UUUACGGAGAUGAGAGGUCAGA CUGGAGAUGGGUCAUAUCCA GUGGUUAUGGGUUAUUGUACUC UGACCUCCUGUCUCUGUCACAG
AC_000164.1_7683	TTTACGG AGATGA GAGGTC AGA	AC_0 0016 4.1_7 683	UUUACGGAGAUGAGAGGUCAGA CUGGAGAUGGGUCAUAUCCA GUGGUUAUGGGUUAUUGUACUC UGACCUCCUGUCUCUGUCACAG
AC_000164.1_7689*	CGGAGA GCTGGG TGCTGTC CTAC	AC_0 0016 4.1_7 689	UGGGCUGCACCUGGGUCUUCGG CCUGCUCUCUUCGACCCGGAGA GCUGGGUGCUGUCCUAC
AC_000164.1_7689	TGGGCT GCACCT GGGTCT TCGGC	AC_0 0016 4.1_7 689	UGGGCUGCACCUGGGUCUUCGG CCUGCUCUCUUCGACCCGGAGA GCUGGGUGCUGUCCUAC
AC_000164.1_7748*	CGGCCC TGGGCC CAATG	AC_0 0016 4.1_7 748	CGGCCCUGGGCCCAAUGGCCACA GCCACUUGCUGAAGGUAUGGGC AGGGGGUGGGACCAUCAGGGC UGGGGAGUGGUG
AC_000164.1_7748	TCAGGG CTGGGG	AC_0 0016	CGGCCCUGGGCCCAAUGGCCACA GCCACUUGCUGAAGGUAUGGGC

	AGTGGT G	4.1_7 748	AGGGGGUGGGGACCAUCAGGGC UGGGGAGUGGUG
AC_000164.1_7842	AGAGAC ACCAGT AAAAGA GCTT	AC_0 0016 4.1_7 842	UGGCUCUUUUACUGGCGUCUCU CAGUGAUUUGUGUGUCUUUCA ACACUCUGAGAGACACCAGUAA AAGAGCUU
AC_000164.1_7842*	TGGCTCT TTTACTG GCGTC	AC_0 0016 4.1_7 842	UGGCUCUUUUACUGGCGUCUCU CAGUGAUUUGUGUGUCUUUCA ACACUCUGAGAGACACCAGUAA AAGAGCUU
AC_000164.1_7874	GCAACA CCCTGTC CCCCT AGT	AC_0 0016 4.1_7 874	UUGGUGGGGGCAGGGAGUUUCU GGCCUCCUUGAGCCCCAAAGCA ACACCCUGUCCCCACUAGU
AC_000164.1_7874*	TTGGTG GGGGCA GGGAGT T	AC_0 0016 4.1_7 874	UUGGUGGGGGCAGGGAGUUUCU GGCCUCCUUGAGCCCCAAAGCA ACACCCUGUCCCCACUAGU
AC_000164.1_7875	AAGGAA CTGCAC AGAGGA GACAT	AC_0 0016 4.1_7 875	AAGGAACUGCACAGAGGAGACA UUCAUGAAGGGGUUCUUGAAU GUUCCCUGCAGUCCUUUA
AC_000164.1_7875*	GTTCCCT GCAGTT CCTTTA	AC_0 0016 4.1_7 875	AAGGAACUGCACAGAGGAGACA UUCAUGAAGGGGUUCUUGAAU GUUCCCUGCAGUCCUUUA
AC_000164.1_7886*	GCAGCA CGAAGG CTCTTCC	AC_0 0016 4.1_7	GCAGCACGAAGGCUCUCCAUC UUUACUGUGGCGUGAGGGAUCU UUAGUUGUGGUAG



	A	886	
AC_000164.1_7886	TGAGGG ATCTTTA GTTGTG GTAG	AC_0 0016 4.1_7 886	GCAGCACGAAGGCUCUCCAUC UUUACUGUGGCGUGAGGGAUCU UUAGUUGUGGUAG
AC_000164.1_7897	ATGTGG AAGCTG ACCAGA GAT	AC_0 0016 4.1_7 897	AUGUGGAAGCUGACCAGAGAUG AGACCAACUAUGGUAUCCACA GCGUGCUCUUCGGGGUCACUCC CACUUUGUUAGUGA
AC_000164.1_7897*	CGGGGT CACTCC CACTTTG TTAGTG A	AC_0 0016 4.1_7 897	AUGUGGAAGCUGACCAGAGAUG AGACCAACUAUGGUAUCCACA GCGUGCUCUUCGGGGUCACUCC CACUUUGUUAGUGA
AC_000164.1_7910	CTCACA CACACC CACCCC CGCAGT	AC_0 0016 4.1_7 910	UGCAGGGGCAGGUGUGGGGGCA GGGGUGCCAAGCCUGCUCACAC ACACCCACCCCCGCAGU
AC_000164.1_7910*	TGCAGG GGCAGG TGTGGG GGCA	AC_0 0016 4.1_7 910	UGCAGGGGCAGGUGUGGGGGCA GGGGUGCCAAGCCUGCUCACAC ACACCCACCCCCGCAGU
AC_000164.1_7937	CAGTAG GGCTGG GGGCGG GACA	AC_0 0016 4.1_7 937	CAGUAGGGCUGGGGGCGGGACA GAGCUGGGCCAAGGUCAGGCUG GGUCAGGAUCCUGUCUUUGGUG CUAUUCUC
AC_000164.1_7937*	TCCTGTC TTTGGTG CTATTCT	AC_0 0016 4.1_7	CAGUAGGGCUGGGGGCGGGACA GAGCUGGGCCAAGGUCAGGCUG GGUCAGGAUCCUGUCUUUGGUG

	C	937	CUAUUCUC
AC_000164.1_7986*>AC_000164.1_7349*	AGTATTA TTCCATA CTTAAG G	AC_000164.1_7986	AGUAUUAUUCCAUACUUAAGGC UACAGCCACCGUAGCCUUAAGU AUGGAAUAAUACUGU
AC_000164.1_7986>AC_000164.1_7349	TTAAGTA TGGAAT AATACTG T	AC_000164.1_7986	AGUAUUAUUCCAUACUUAAGGC UACAGCCACCGUAGCCUUAAGU AUGGAAUAAUACUGU
AC_000164.1_8001*	CCCTTCC ACCTCTA CCCCCC G	AC_000164.1_8001	UGGGGCAGACUAGGAAAGGGUG GGCAGCCACCGACACCCUCCAC CUCUACCCCCCG
AC_000164.1_8001	TGGGGC AGACTA GGAAAG GGTG	AC_000164.1_8001	UGGGGCAGACUAGGAAAGGGUG GGCAGCCACCGACACCCUCCAC CUCUACCCCCCG
AC_000164.1_8025*	ACTTTCA GCATGA GGATTCT TGGTC	AC_000164.1_8025	UGAGGGAUUUAGUUGUGGUA UGCGUCCUACUUUCAGCAUGA GGAUUCUUGGUC
AC_000164.1_8025	TGAGGG ATCTTTA GTTGTG GTAT	AC_000164.1_8025	UGAGGGAUUUAGUUGUGGUA UGCGUCCUACUUUCAGCAUGA GGAUUCUUGGUC
AC_000164.1_8148*	GGCAGA TAAAGC TTCACTC ACT	AC_000164.1_8148	UGAGGGAGUUGGGUGUGUGGUU CAGGCAGCGAUGUGAGCAAUGG GGAGUGAUGUGGGAUGGCAGAU AAAGCUUCACUCACU

AC_000164.1_8148	TGAGGG AGTTGG GTGTGT GGT	AC_0 0016 4.1_8 148	UGAGGGAGUUGGGUGUGUGGUU CAGGCAGCGAUGUGAGCAAUGG GGAGUGAUGUGGGAUGGCAGAU AAAGCUUCACUCACU
AC_000164.1_8192*	GCCGGA GGTCTG GCCTGC GCGCAG	AC_0 0016 4.1_8 192	GCCGGAGGUCUGGCCUGCGCGC AGUAUAUGACAGUACGUCAGCA GCGGGAUGGCCGUAGCUGUGGC GG
AC_000164.1_8192	GCGGGA TGGCCG TAGCTGT GGCGG	AC_0 0016 4.1_8 192	GCCGGAGGUCUGGCCUGCGCGC AGUAUAUGACAGUACGUCAGCA GCGGGAUGGCCGUAGCUGUGGC GG
AC_000165.1_8374*	AACCCA ACTGAA CTTTTTG GC	AC_0 0016 5.1_8 374	CAAUAAGUUUGUUUGGGUUUUU CUAUCAGAUGUAACAGAAAAAC CCAACUGAACUUUUUGGC
AC_000165.1_8374	CAATAA GTTTGTT TGGGTTT T	AC_0 0016 5.1_8 374	CAAUAAGUUUGUUUGGGUUUUU CUAUCAGAUGUAACAGAAAAAC CCAACUGAACUUUUUGGC
AC_000165.1_8428*	AAACCC TGAAGG AACTTTT TGA	AC_0 0016 5.1_8 428	AAGAAGUUCGUUCAGGUUUUUC CAUAUCUUACAAAAAACCUGA AGGAACUUUUUGA
AC_000165.1_8428	AAGAAG TTCGTTC AGGTTTT T	AC_0 0016 5.1_8 428	AAGAAGUUCGUUCAGGUUUUUC CAUAUCUUACAAAAAACCUGA AGGAACUUUUUGA
AC_000165.1_8454	CAGAGT	AC_0	CAGAGUAGGGGUCGGGUGGGAA

	AGGGGT CGGGTG GGA	0016 5.1_8 454	AGGUGGCUCUCCUUGCCUUCCU GCCUGCCCCACCAUUCC
AC_000165.1_8454*	CTGCCT GCCCCA CCATTCC	AC_0 0016 5.1_8 454	CAGAGUAGGGGUCGGGUGGGAA AGGUGGCUCUCCUUGCCUUCCU GCCUGCCCCACCAUUCC
AC_000165.1_8533	CCTCTTC CAGCAC ACACCC AG	AC_0 0016 5.1_8 533	GGGUGUGUCUGGGACAGCCUUU CAGGCUAGGCCUCUUCCAGCAC ACACCCAG
AC_000165.1_8533*	GGGTGT GTCTGG GACAGC C	AC_0 0016 5.1_8 533	GGGUGUGUCUGGGACAGCCUUU CAGGCUAGGCCUCUUCCAGCAC ACACCCAG
AC_000165.1_8571	ACAGGA GGGCTG GGGGCG TGTTT	AC_0 0016 5.1_8 571	ACAUUACUAGCUGUCCUGUCCU UGGUGGACUGACGCAGAGGACA GGAGGGCUGGGGGCGUGUUC
AC_000165.1_8571*	ACATTAC TAGCTGT CCTGTCC	AC_0 0016 5.1_8 571	ACAUUACUAGCUGUCCUGUCCU UGGUGGACUGACGCAGAGGACA GGAGGGCUGGGGGCGUGUUC
AC_000165.1_8655	TGGCTG GTCTCTT CCCTGC AGT	AC_0 0016 5.1_8 655	UGGGGUUGACUCUAGCCAAGGC UCUGGGGUCUCAUCCUUGGCUG GUCUCUUCCCUGCAGU
AC_000165.1_8655*	TGGGGT TGA CTCT	AC_0 0016	UGGGGUUGACUCUAGCCAAGGC UCUGGGGUCUCAUCCUUGGCUG

	AGCCAA GGCT	5.1_8 655	GUCUCUUCCCUGCAGU
AC_000165.1_8674*	AAAAAC CTGAAT GAACTT TCTG	AC_0 0016 5.1_8 674	GAAAGUUGGUUUGGAUUUUUCC AUUGCAUCUUACAGAAAAACCU GAAUGAACUUUCUG
AC_000165.1_8674	GAAAGT TGGTTTG GATTTTT CC	AC_0 0016 5.1_8 674	GAAAGUUGGUUUGGAUUUUUCC AUUGCAUCUUACAGAAAAACCU GAAUGAACUUUCUG
AC_000165.1_8682	CGCGGG GGAGGG AGGCAG GGGC	AC_0 0016 5.1_8 682	CGCGGGGGAGGGAGGCAGGGGC GGCUCCCGGGAUAAACUUGACU CUGUCCCCUCCCCCGCAGC
AC_000165.1_8682*	CTCTGTC CCCTTCC CCCGCA GC	AC_0 0016 5.1_8 682	CGCGGGGGAGGGAGGCAGGGGC GGCUCCCGGGAUAAACUUGACU CUGUCCCCUCCCCCGCAGC
AC_000165.1_8774*	CTGTTCT TCTCTTC CTCCAG G	AC_0 0016 5.1_8 774	UGGGCGGGGUCGGGGGAUGAGA GGCCUUUGAGCGGGGCCUCACU GUUCUUCUCUUCCUCCAGG
AC_000165.1_8774	TGGGCG GGGTCG GGGGAT GAGA	AC_0 0016 5.1_8 774	UGGGCGGGGUCGGGGGAUGAGA GGCCUUUGAGCGGGGCCUCACU GUUCUUCUCUUCCUCCAGG
AC_000165.1_8809*	AAGCAT CGGTTC CTAACC	AC_0 0016 5.1_8	AAGCAUCGGUCCUAACCCAGC UGCCUCGCCAGGCUCCGAGGGC UGGCGGGGGAGGAGAUGUGGGG

	CAGC	809	UGGGAGGAUGGAGAG
AC_000165.1_8809>AC_000178.1_20679>AC_000162.1_5284	TGGGGT GGGAGG ATGGAG AG	AC_000165.1_809	AAGCAUCGGUCCUAACCCAGC UGCCUCGCCAGGCUCCGAGGGC UGGCGGGGGAGGAGAUGUGGGG UGGGAGGAUGGAGAG
AC_000165.1_8815*	GCAGTA ACGAGC TCA	AC_000165.1_815	GCAGUAACGAGCUCACUCCUCG UUAGUAUAGUGG
AC_000165.1_8815	TCCTCGT TAGTATA GTGG	AC_000165.1_815	GCAGUAACGAGCUCACUCCUCG UUAGUAUAGUGG
AC_000165.1_8839*	ACAATCT TCCATGT TCCTATG C	AC_000165.1_839	ACAGGAACAUGGAAAAUUGGCA GAAAUAGAUGAUGACUGACAAU CUUCCAUGUCCUAUGC
AC_000165.1_8839	ACAGGA ACATGG AAAATT GGCA	AC_000165.1_839	ACAGGAACAUGGAAAAUUGGCA GAAAUAGAUGAUGACUGACAAU CUUCCAUGUCCUAUGC
AC_000165.1_8867*	AAAAAC CCAAGT GAACTT TTTG	AC_000165.1_867	AAUAAGUUCGUUUGGGUUUUUC CAUAACAUCUAACAGAAAAACC CAAGUGAACUUUUUG
AC_000170.1_13547>AC_000174.1_16244>AC_000165.1_8867>AC_000181.1_22697	AATAAG TTCGTTT GGGTTTT T	AC_000170.1_867	AAUAAGUUCGUUUGGGUUUUUC CAUAACAUCUAACAGAAAAACC CAAGUGAACUUUUUG

AC_000186.1_24945>AC_00 0181.1_22594>AC_000165.1 _8950	AAATCT GAACAA GCTTTTT GGC	AC_0 0016 5.1_8 950	CAAAAUUUUGUUUGGGUAUUU CCACAACAUCUUAUGGAAAAU CUGAACAAGCUUUUUGGC
AC_000165.1_8950*	CAAAAA TTTTGTT TGGGTAT TT	AC_0 0016 5.1_8 950	CAAAAUUUUGUUUGGGUAUUU CCACAACAUCUUAUGGAAAAU CUGAACAAGCUUUUUGGC
AC_000165.1_8952*	CCTCCCC TGCCCC AAACCC TCAGAC CC	AC_0 0016 5.1_8 952	CCUCCCCUGCCCCAAACCCUCAG ACCCAACCUCAAAGGAACGUGG CGGUGAGGUCGGGCAGAAGAGG GA
AC_000173.1_16032>AC_00 0165.1_8952	CGGTGA GGTCGG GCAGAA GAGGGA	AC_0 0016 5.1_8 952	CCUCCCCUGCCCCAAACCCUCAG ACCCAACCUCAAAGGAACGUGG CGGUGAGGUCGGGCAGAAGAGG GA
AC_000165.1_8959	AAAAAG TTCGTTC CGGTTTT T	AC_0 0016 5.1_8 959	AAAAAGUUCGUUCCGGUUUUUC CAUAAGCUGCUAUGGGAAAACC UGAAUGAACUUUUCAG
AC_000165.1_8959*	AAACCT GAATGA ACTTTTC AG	AC_0 0016 5.1_8 959	AAAAAGUUCGUUCCGGUUUUUC CAUAAGCUGCUAUGGGAAAACC UGAAUGAACUUUUCAG
AC_000165.1_9019	AAAAAC CCAAAT GGACTT TTTGA	AC_0 0016 5.1_9 019	ACAAAGUUCGUUUGGGUUUUUC UGUGUUAUGGAAAAACCCAAAU GGACUUUUUGA

AC_000165.1_9019*	ACAAAG TTCGTTT GGGTTTT T	AC_0 0016 5.1_9 019	ACAAAGUUCGUUUGGGUUUUUC UGUGUUAUGGAAAAACCCAAAU GGACUUUUUGA
AC_000165.1_9037*	AACCTG AGCAAA CCTTTTG G	AC_0 0016 5.1_9 037	AAGAAGUUCGUUCAGGUUUUCC CAUAACAUCUUAUGGAAAAACC UGAGCAAACCUUUUGG
AC_000165.1_9037	AAGAAG TTCGTTC AGGTTTT	AC_0 0016 5.1_9 037	AAGAAGUUCGUUCAGGUUUUCC CAUAACAUCUUAUGGAAAAACC UGAGCAAACCUUUUGG
AC_000165.1_9053*	AAATCTA AAGGAA TTTTTCA G	AC_0 0016 5.1_9 053	GAAAAGUUCGUUUGGGUUUUUC CAGAACAUCUUAUGGAAAAAUC UAAAGGAAUUUUUCAG
AC_000165.1_9053>AC_000 181.1_22545	GAAAAG TTCGTTT GGGTTTT T	AC_0 0016 5.1_9 053	GAAAAGUUCGUUUGGGUUUUUC CAGAACAUCUUAUGGAAAAAUC UAAAGGAAUUUUUCAG
AC_000165.1_9095	AAAGTT CGTTCA GGTTTTT CT	AC_0 0016 5.1_9 095	AAAGUUCGUUCAGGUUUUUCUC CAUUUUACAGGAAACCCCAAAC AAACUUUUU
AC_000165.1_9095*	GAAACC CCAAAC AAACTT TTT	AC_0 0016 5.1_9 095	AAAGUUCGUUCAGGUUUUUCUC CAUUUUACAGGAAACCCCAAAC AAACUUUUU
AC_000165.1_9129*	CACCTG	AC_0	CUCUGAACUGUAGGGGAGCGGU



	GGGTGA GAG	0016 5.1_9 129	GUCGUUACGUGGGGUUCUGCUC GGAAAGUGAAGGGUGCGCACCU GGGGUGAGAG
AC_000165.1_9129	CTCTGA ACTGTA GGGGAG CG	AC_0 0016 5.1_9 129	CUCUGAACUGUAGGGGAGCGGU GUCGUUACGUGGGGUUCUGCUC GGAAAGUGAAGGGUGCGCACCU GGGGUGAGAG
AC_000164.1_7142>AC_000 165.1_9210	AAAAGT TTGGTTG GGTTTTT CT	AC_0 0016 5.1_9 210	CUAAACCUAUUUUCAUAUUUUU UGUGCUCAUUUACAGUGUAUGC UUGAUGAGUAUAUUGGGUUGGC CAAAAAGUUUGGUUGGGUUUUU CU
AC_000165.1_9210*	CTAAAC CTATTTT CATATTT TTTG	AC_0 0016 5.1_9 210	CUAAACCUAUUUUCAUAUUUUU UGUGCUCAUUUACAGUGUAUGC UUGAUGAGUAUAUUGGGUUGGC CAAAAAGUUUGGUUGGGUUUUU CU
AC_000165.1_9225	ATCCTGG ACTTGC GGACAG AG	AC_0 0016 5.1_9 225	AUCCUGGACUUGCGGACAGAGA GCCUGAUUAGCCGCUGGCCUCU CCCCGAGUACAGGAAAU
AC_000165.1_9225*	CTCCCC GAGTAC AGGAAA T	AC_0 0016 5.1_9 225	AUCCUGGACUUGCGGACAGAGA GCCUGAUUAGCCGCUGGCCUCU CCCCGAGUACAGGAAAU
AC_000166.1_10012	CAGGGT GTGTGA GGGTTG GA	AC_0 0016 6.1_1 0012	UGCUGAGCCUGCUUCUCUGUG AGGUGAGGUGCUGGCGUCCUCG CCUGCAGGGUGUGAGGGUUG GA

AC_000166.1_10012*	TGCTGA GCCCTG CTTCTCT GTG	AC_0 0016 6.1_1 0012	UGCUGAGCCCUGCUUCUCUGUG AGGUGAGGUGCUGGGCGUCCUCG CCUGCAGGGUGUGUGAGGGUUG GA
AC_000166.1_9240*	CACCCG GGGAGA CAGGCA TTCA	AC_0 0016 6.1_9 240	CGACAGGGAUCUCGGUGUUGCA UCCAGACGCACCCGGGGAGAC AGGCAUUCA
AC_000166.1_9240	CGACAG GGATCTC GGTGTT G	AC_0 0016 6.1_9 240	CGACAGGGAUCUCGGUGUUGCA UCCAGACGCACCCGGGGAGAC AGGCAUUCA
AC_000166.1_9324	AAAAAC TTGAATG AACTTTT T	AC_0 0016 6.1_9 324	AAAAAGUUCGCUCAGGUUUUUC UAUAACAUAUGUGGAAAAACU UGAAUGAACUUUUU
AC_000166.1_9324*	AAAAAG TTCGCTC AGGTTTT T	AC_0 0016 6.1_9 324	AAAAAGUUCGCUCAGGUUUUUC UAUAACAUAUGUGGAAAAACU UGAAUGAACUUUUU
AC_000166.1_9355	GGGGAG CAGCCA GCCGCG TTG	AC_0 0016 6.1_9 355	UUGC GG CUGGCUGGCCGCCCGCC CGCUAGCAGCGCGGGGAGCAGC CAGCCGCGUUG
AC_000166.1_9355*	TTGCGG CTGGCT GGCCGC CCGC	AC_0 0016 6.1_9 355	UUGC GG CUGGCUGGCCGCCCGCC CGCUAGCAGCGCGGGGAGCAGC CAGCCGCGUUG
AC_000166.1_9522	TGGCAG	AC_0	UGGCAGGAAGGGAACUGGGAU

	GAAGGG AACTGG	0016 6.1_9 522	GAAUCUCUCUCUCCUGUUCUCU GAUUUUCUGCUAGU
AC_000166.1_9522*	TGTTCTC TGATTTT CTGCTA GT	AC_0 0016 6.1_9 522	UGGCAGGAAGGGAACUGGGAAU GAAUCUCUCUCUCCUGUUCUCU GAUUUUCUGCUAGU
AC_000166.1_9542*	AAAGAA ACTTTTT GGCCAA CC	AC_0 0016 6.1_9 542	AAUAAAGUUUGUUUGGGUUUUU CUGUAAGGUGAUUAUGGAAAAAU CUGAAAGAAACUUUUUGGCCAA CC
AC_000166.1_9542	AATAAA GTTTGTT TGGGTTT TT	AC_0 0016 6.1_9 542	AAUAAAGUUUGUUUGGGUUUUU CUGUAAGGUGAUUAUGGAAAAAU CUGAAAGAAACUUUUUGGCCAA CC
AC_000166.1_9572	AAAAAG GTTGTTT GGGTTTT	AC_0 0016 6.1_9 572	AAAAAGGUUGUUUGGGUUUUUC CAUAAUAUUCUAGGGGGAAAUG GACAAACUUUUUGG
AC_000166.1_9572*	AATGGA CAAACCT TTTTGG	AC_0 0016 6.1_9 572	AAAAAGGUUGUUUGGGUUUUUC CAUAAUAUUCUAGGGGGAAAUG GACAAACUUUUUGG
AC_000166.1_9577*	AGGCTG ACCATAC GTGAAG	AC_0 0016 6.1_9 577	AGGCUGACCAUACGUGAAGGCA AGCAGAGGUUUUUUCUGAGCUG CUCAGGAUUGGGGGGGCAUCA
AC_000166.1_9577	TCAGGA TTGGGG	AC_0 0016	AGGCUGACCAUACGUGAAGGCA AGCAGAGGUUUUUUCUGAGCUG

	GGGCAT CA	6.1_9 577	CUCAGGAUUGGGGGGGCAUCA
AC_000166.1_9735*	ATGGAA ATGATCC TATTGG	AC_0 0016 6.1_9 735	GAAAGGUUCGUUCGGGGUUUUC CGUUAUGGAAAUGGAAAUGAUC CUAUUGG
AC_000166.1_9735	GAAAGG TTCGTTC GGGGTT TT	AC_0 0016 6.1_9 735	GAAAGGUUCGUUCGGGGUUUUC CGUUAUGGAAAUGGAAAUGAUC CUAUUGG
AC_000166.1_9837*	CTCAGT AAAATTT CATTGTG GA	AC_0 0016 6.1_9 837	GGGGGUGGGGGGGCGGCGGGAA UGUGGUCUUGUUCUGGUGGGCA GGCCAUUCUCAGUAAAAUUUC AUUGUGGA
AC_000166.1_9837	GGGGGT GGGGGG GCGGCG GGAA	AC_0 0016 6.1_9 837	GGGGGUGGGGGGGCGGCGGGAA UGUGGUCUUGUUCUGGUGGGCA GGCCAUUCUCAGUAAAAUUUC AUUGUGGA
AC_000166.1_9855*	AAAACC AAATGA AAGTTTT GG	AC_0 0016 6.1_9 855	AAAAGGUUCGUUCGGGUUUUUC UGUGCAGCCUACAGAAAAAAC CAAUGAAAGUUUUGG
AC_000166.1_9855	AAAAGG TTCGTTC GGGTTTT	AC_0 0016 6.1_9 855	AAAAGGUUCGUUCGGGUUUUUC UGUGCAGCCUACAGAAAAAAC CAAUGAAAGUUUUGG
AC_000166.1_9885*	ATGGTG ATCTCAT TCCTAGT	AC_0 0016 6.1_9	UAGGAAUGGGAUCGCUGGGUCA UAUGGUGAUCUCAUCCUAGU

		885	
AC_000166.1_9885	TAGGAA TGGGAT CGCTGG GT	AC_0 0016 6.1_9 885	UAGGAAUGGGAUCGCUGGGUCA UAUGGUGAUCUCAUCCUAGU
AC_000166.1_9959	CTAGGG CCATACC ACCCTG	AC_0 0016 6.1_9 959	CUAGGGCCAUACCACCCUGAAC GCACCUGAUAGUGUCUGAUCUC GGAAGCUCAGCAGGGCCAGGCC CAGUUAGUA
AC_000166.1_9959*	GGGCCA GGCCCA GTTAGTA	AC_0 0016 6.1_9 959	CUAGGGCCAUACCACCCUGAAC GCACCUGAUAGUGUCUGAUCUC GGAAGCUCAGCAGGGCCAGGCC CAGUUAGUA
AC_000167.1_10076*	AAAGCC GAACGA AATTTTT G	AC_0 0016 7.1_1 0076	UAAAGUUCAUUCGGGUUUUUC GUAAGCUACGAGAGAAAAAGCC GAACGAAUUUUUG
AC_000185.1_24616>AC_00 0167.1_10076>AC_000178.1 _20579>AC_000178.1_20580	TAAAGT TCATTCTG GGTTTTT	AC_0 0016 7.1_1 0076	UAAAGUUCAUUCGGGUUUUUC GUAAGCUACGAGAGAAAAAGCC GAACGAAUUUUUG
AC_000167.1_10109	AGTGTTT AGGATT CGGCT	AC_0 0016 7.1_1 0109	UCAGACACAACUGAACAAACUAA CACACACUAGUGUUUAGGAUUC GGCU
AC_000167.1_10109*	TCAGAC ACAACCT GAACAA CTAA	AC_0 0016 7.1_1 0109	UCAGACACAACUGAACAAACUAA CACACACUAGUGUUUAGGAUUC GGCU

AC_000167.1_10348	CGGGCT GGGAGT GGGCAG GAGG	AC_0 0016 7.1_1 0348	CGGGCUGGGAGUGGGCAGGAGG CACUUGGUGCUGGGACGUGUUU ACCUGUUUCUUCCUUGGUUCC UGCUCUCCCCCUCCAGCU
AC_000167.1_10348*	TCCTGCT CCTCCCC CTCCAG CT	AC_0 0016 7.1_1 0348	CGGGCUGGGAGUGGGCAGGAGG CACUUGGUGCUGGGACGUGUUU ACCUGUUUCUUCCUUGGUUCC UGCUCUCCCCCUCCAGCU
AC_000167.1_10353*	AAGTCC CTAGTTT CAGA	AC_0 0016 7.1_1 0353	AAGUCCCUAGUUUCAGAGUCC AGCUUCCAGACUGGGAGGCAAU G
AC_000167.1_10353	CCAGAC TGGGAG GCAATG	AC_0 0016 7.1_1 0353	AAGUCCCUAGUUUCAGAGUCC AGCUUCCAGACUGGGAGGCAAU G
AC_000167.1_10440*	AAACCT AAATGA ACTTTTT GT	AC_0 0016 7.1_1 0440	GAAAAGUCCUUCGGGUUUUCC AUGAACUAGCAUAGAGAAACCU AAAUGAACUUUUUGU
AC_000167.1_10440	GAAAAG TTCCTTC GGGTTTT C	AC_0 0016 7.1_1 0440	GAAAAGUCCUUCGGGUUUUCC AUGAACUAGCAUAGAGAAACCU AAAUGAACUUUUUGU
AC_000167.1_10500*	CGGCTC TTGGGC TGTCCG CC	AC_0 0016 7.1_1 0500	UGGACAGGCCAAGCCGCUGUGC AGGCAGCUCCAUCCCAGCCGGCU CUUGGGCUGUCCGCC
AC_000167.1_10500	TGGACA	AC_0	UGGACAGGCCAAGCCGCUGUGC

	GGCCAA GCCGCT GTG	0016 7.1_1 0500	AGGCAGCUCCAUCCCAGCCGGCU CUUGGGCUGUCCGCC
AC_000167.1_10504*	CGAGGA GGCAGA GGAGGA GGA	AC_0 0016 7.1_1 0504	CGGGGAGGCUUUGGAGGGCGAG GAGGCUUCCGAGGAGGCAGAGG AGGAGGA
AC_000167.1_10504	CGGGGA GGCTTT GGAGGG CG	AC_0 0016 7.1_1 0504	CGGGGAGGCUUUGGAGGGCGAG GAGGCUUCCGAGGAGGCAGAGG AGGAGGA
AC_000167.1_10506	AAAAAG TTCGTTG AGGTTTT	AC_0 0016 7.1_1 0506	AAAAAGUUCGUUGAGGUUUUCC AGAAGAUGUUAUGGGAAGAUCA AACUUUUUGG
AC_000167.1_10506*	AGATCA AACTTTT TGG	AC_0 0016 7.1_1 0506	AAAAAGUUCGUUGAGGUUUUCC AGAAGAUGUUAUGGGAAGAUCA AACUUUUUGG
AC_000167.1_10567	CGTCTTG GGTTGG GGCATG GAAC	AC_0 0016 7.1_1 0567	CGUCUUGGGUUGGGGCAUGGAA CUCGGCUUCCCUCUCGAGUUGG AAA AUGGGUGUCAGGCCUCCUG UCAAGUUGAG
AC_000167.1_10567*	GTCAGG CCTCCTG TCAAGT TGAG	AC_0 0016 7.1_1 0567	CGUCUUGGGUUGGGGCAUGGAA CUCGGCUUCCCUCUCGAGUUGG AAA AUGGGUGUCAGGCCUCCUG UCAAGUUGAG
AC_000167.1_10608*	AAAAGT TCATTTG	AC_0 0016	AAAAGUUCAUUUGGGUUUUGUA UAAGAUGUUAUGGAAACACUUG

	GGTTTT	7.1_1 0608	AACCAAUAUAACUCGAACGAAU UUUUGGCCAA
AC_000167.1_10608	ACTCGA ACGAAT TTTTGGC CAA	AC_0 0016 7.1_1 0608	AAAAGUUCAUUUGGGUUUUGUA UAAGAUGUUAUGGAAACACUUG AACCAAUAUAACUCGAACGAAU UUUUGGCCAA
AC_000167.1_10629*	CAACCA TAGGCA GTCACAT ACAT	AC_0 0016 7.1_1 0629	UGUGACUGUCCUGGUAUUGAU UGCAUUUGUUGGUCGUACAGUG CAACCAUAGGCAGUCACAUACA U
AC_000167.1_10629	TGTGAC TGTTCC GGTATTG	AC_0 0016 7.1_1 0629	UGUGACUGUCCUGGUAUUGAU UGCAUUUGUUGGUCGUACAGUG CAACCAUAGGCAGUCACAUACA U
AC_000167.1_10672*	AAACCC TGATGA ACTTTTT G	AC_0 0016 7.1_1 0672	GAAAGUUCGUCCGGUUUUUCU GUAAGAUGUUAUGGAAAAACCC UGAUGAACUUUUUG
AC_000167.1_10672	GAAAGT TCGTTCC GGTTTTT C	AC_0 0016 7.1_1 0672	GAAAGUUCGUCCGGUUUUUCU GUAAGAUGUUAUGGAAAAACCC UGAUGAACUUUUUG
AC_000167.1_10674	CAGGGC AGGGGC AGAAGG GGA	AC_0 0016 7.1_1 0674	CCUUCAGGGUCUGUCCCUGCCA GCACCUCAGGGCAGGGGCAGAA GGGGA
AC_000167.1_10674*	CCTTCA GGGTCT GTCCCT	AC_0 0016 7.1_1	CCUUCAGGGUCUGUCCCUGCCA GCACCUCAGGGCAGGGGCAGAA GGGGA



	GCCAGC AC	0674	
AC_000167.1_10700*	ATAACG CGTCTG ACTA	AC_0 0016 7.1_1 0700	AUAACGCGUCUGACUACGGAUC AGAAGAUUCCAGGUUCGACUCC UGGCUGGCUCGGUGGGACGCGU GCGUUUUU
AC_000167.1_10700	GTGGGA CGCGTG CGTTTT	AC_0 0016 7.1_1 0700	AUAACGCGUCUGACUACGGAUC AGAAGAUUCCAGGUUCGACUCC UGGCUGGCUCGGUGGGACGCGU GCGUUUUU
AC_000167.1_10754*	CCATTGC GTCACAT CCCCCTA G	AC_0 0016 7.1_1 0754	CCAUUGCGUCACAUCCCCUAGU UUUACUCCCUAUAGCUACCAGG AAGGAGUAGGUUUCUGGGACGA GGUGGCCGAGUGGUU
AC_000167.1_10754	GGGACG AGGTGG CCGAGT GGTT	AC_0 0016 7.1_1 0754	CCAUUGCGUCACAUCCCCUAGU UUUACUCCCUAUAGCUACCAGG AAGGAGUAGGUUUCUGGGACGA GGUGGCCGAGUGGUU
AC_000167.1_10813	ACGGAG GAGAAG GGGGGT A	AC_0 0016 7.1_1 0813	ACGGAGGAGAAGGGGGGUAAAU UGGGAGACUGGGAUUGAUUAU ACACUCUCAGUUGUGUCCGACU CUUUGUGACCCCAUGGACUGU
AC_000167.1_10813*	CTCTTTG TGACCC CATGGA CTGT	AC_0 0016 7.1_1 0813	ACGGAGGAGAAGGGGGGUAAAU UGGGAGACUGGGAUUGAUUAU ACACUCUCAGUUGUGUCCGACU CUUUGUGACCCCAUGGACUGU
AC_000167.1_10824*	AACATC CTATTTT TCCTTCA	AC_0 0016 7.1_1	AACAUCCUAUUUUUCCUUCAGU AUUGGAACAAAUUGUGUUUCAU UGUAAACACCAGAUGAAGUAG

	GT	0824	UAGGCUGUGUUU
AC_000167.1_10824	TGAAGT AGTAGG CTGTGTT T	AC_0 0016 7.1_1 0824	AACAUCCUAUUUUUCCUUCAGU AUUGGAACAAAUUGUGUUUCAU UGUUAACACCAGAUGAAGUAG UAGGCUGUGUUU
AC_000167.1_10871	AAACGT TCTTTTG GGTTTTT	AC_0 0016 7.1_1 0871	AAACGUUCUUUUGGGUUUUUCC GUAACACCCAAAUGAAUUUUUU G
AC_000167.1_10871*	ACACCC AAATGA ATTTTTT G	AC_0 0016 7.1_1 0871	AAACGUUCUUUUGGGUUUUUCC GUAACACCCAAAUGAAUUUUUU G
AC_000167.1_10946	AAAACC CGAAGG AACTTTT	AC_0 0016 7.1_1 0946	AAGUUCAUUUAGGUUUCUCUAU GCUAGUUCAUGGAAAACCCGAA GGAACUUUU
AC_000167.1_10946*	AAGTTC ATTTAGG TTTCTCT	AC_0 0016 7.1_1 0946	AAGUUCAUUUAGGUUUCUCUAU GCUAGUUCAUGGAAAACCCGAA GGAACUUUU
AC_000167.1_10951>AC_00 0167.1_10952	CCAGGG GTGGGA TTGTAG GGT	AC_0 0016 7.1_1 0951	CCAGGGGUGGGAUUGUAGGGUC AUGCUGCUGCUGCUGCUGAGUC GCUUCAGUCAUGUCUGACUCUG UGCGACCCCAUAGAUGGCA
AC_000167.1_10951*	TGTGCG ACCCCAT AGATGG CA	AC_0 0016 7.1_1 0951	CCAGGGGUGGGAUUGUAGGGUC AUGCUGCUGCUGCUGCUGAGUC GCUUCAGUCAUGUCUGACUCUG UGCGACCCCAUAGAUGGCA

AC_000167.1_10951>AC_00 0167.1_10952	CCAGGG GTGGGA TTGTAG GGT	AC_0 0016 7.1_1 0952	GCUGCAAUGAACACUGGAGUGC AUGUAUCCUUUCAGACCAUGUU UUUCUCCAGAU AUGUGCCCAGG GGUGGGAUUGUAGGGU
AC_000167.1_10952*	GCTGCA ATGAAC ACTGGA G	AC_0 0016 7.1_1 0952	GCUGCAAUGAACACUGGAGUGC AUGUAUCCUUUCAGACCAUGUU UUUCUCCAGAU AUGUGCCCAGG GGUGGGAUUGUAGGGU
AC_000167.1_10993*	CGGCCA GCCACG TGGCGC ATTG	AC_0 0016 7.1_1 0993	UGGGGUCCGGGCUGGGCGGGAG AGGAGGCCGGAGCCGGCCAGCC ACGUGGCGCAUUG
AC_000167.1_10993>AC_00 0167.1_10994	TGGGGT CCGGGC TGGGCG GG	AC_0 0016 7.1_1 0993	UGGGGUCCGGGCUGGGCGGGAG AGGAGGCCGGAGCCGGCCAGCC ACGUGGCGCAUUG
AC_000167.1_10994*	CGTGGC GGCGCG CGCCCG GT	AC_0 0016 7.1_1 0994	CGUGGCGGCGCGCGCCCGGUGA GUGUGCGAGCGCGGGCGCGCCG GUGCAUGACUGGGGUCCGGGCU GGGCGGG
AC_000167.1_10993>AC_00 0167.1_10994	TGGGGT CCGGGC TGGGCG GG	AC_0 0016 7.1_1 0994	CGUGGCGGCGCGCGCCCGGUGA GUGUGCGAGCGCGGGCGCGCCG GUGCAUGACUGGGGUCCGGGCU GGGCGGG
AC_000167.1_11009*	AGCAAG TGAATG GGAAAA CAGGGC	AC_0 0016 7.1_1 1009	UCAAAGUGGCUAAGUUCUGUGU GACCGGAACCUCCUCGAGGUCA CACAGCAAGUGAAUGGGAAAAC AGGGC
AC_000167.1_11009	TCAAAG	AC_0	UCAAAGUGGCUAAGUUCUGUGU

	TGGCTA AGTTCT GT	0016 7.1_1 1009	GACCGGAACCUCCUCGAGGUCA CACAGCAAGUGAAUGGGAAAAC AGGGC
AC_000167.1_11053*>AC_000170.1_12965>AC_000159.1_2216>AC_000161.1_4718	AAACTT GAATGA ACCTTTT GGCC	AC_0 0016 7.1_1 1053	AAGAAGUUCGUUCAGGUUUUUC UGUAAGACGGUAUGGAAAACUU GAAUGAACCUUUUGGCC
AC_000167.1_11053>AC_000171.1_14048	AAGAAG TTCGTTT AGGTTTT TC	AC_0 0016 7.1_1 1053	AAGAAGUUCGUUCAGGUUUUUC UGUAAGACGGUAUGGAAAACUU GAAUGAACCUUUUGGCC
AC_000167.1_11059	AGGTGT GAAGGG CTCGCT GCT	AC_0 0016 7.1_1 1059	AGGUGUGAAGGGCUCGCUGCUC CCCAGGCGUGGUCUGCAGCCAG CCCUUCCCACCCCC
AC_000167.1_11059*	CAGCCA GCCCTTC CCACCC CC	AC_0 0016 7.1_1 1059	AGGUGUGAAGGGCUCGCUGCUC CCCAGGCGUGGUCUGCAGCCAG CCCUUCCCACCCCC
AC_000167.1_11061	AGAGGC GGAGGA TGAAGA AGACG	AC_0 0016 7.1_1 1061	AGAGGCGGAGGAUGAAGAAGAC GAGCACGAGCACGGAGACGCGC AGCAGCUCCAGCGAGAGCUCGC ACUCCUCAUCCUCCCACUCG
AC_000167.1_11061*	CACTCCT CATCCTC CCACTC G	AC_0 0016 7.1_1 1061	AGAGGCGGAGGAUGAAGAAGAC GAGCACGAGCACGGAGACGCGC AGCAGCUCCAGCGAGAGCUCGC ACUCCUCAUCCUCCCACUCG
AC_000168.1_11154*	GCCTCCT GCCCCC	AC_0 0016	UGGACUGGGGAGAAGGGGGCUG UGGCAGCAGAGGGAGGUCCUUA

	AGCCCC C	8.1_1 1154	CAGGACCCACUGCUCUCUGUG CCUCCUGCCCCCAGCCCC
AC_000168.1_11154	TGGA GGGAG AAGGG GCTG	AC_0 0016 8.1_1 1154	UGGACUGGGGAGAAGGGGGCUG UGGCAGCAGAGGGAGGUCCUUA CAGGACCCACUGCUCUCUGUG CCUCCUGCCCCCAGCCCC
AC_000162.1_5212>AC_000168.1_11192	AAATGTT CGTTCG GGTTTT	AC_0 0016 8.1_1 1192	AAAUGUUCGUUCGGGUUUUCCU GUAACAUCUUGCCCAAAAAGCU AAAUGAACUUUUUG
AC_000168.1_11192*	AAGCTA AATGAA CTTTTTG	AC_0 0016 8.1_1 1192	AAAUGUUCGUUCGGGUUUUCCU GUAACAUCUUGCCCAAAAAGCU AAAUGAACUUUUUG
AC_000168.1_11224*	TACAAA CATACT GCCCC TG	AC_0 0016 8.1_1 1224	UGUAGUAGGUUGUGUGGGCUUC CAGUGAGGCUGCACGGAGAUUA CAAACAUACCUGCCCCCUG
AC_000168.1_11224	TGTAGTA GGTTGT GTGGG	AC_0 0016 8.1_1 1224	UGUAGUAGGUUGUGUGGGCUUC CAGUGAGGCUGCACGGAGAUUA CAAACAUACCUGCCCCCUG
AC_000168.1_11243*	AAAAGT TCATTCG GGTTTCT	AC_0 0016 8.1_1 1243	AAAAGUUCAUUCGGGUUUCUCU GUAACAGGCUAUGGGAAAACCC GAAGGAACUUUUUG
AC_000168.1_11243	GAAAAC CCGAAG GAACTT	AC_0 0016 8.1_1	AAAAGUUCAUUCGGGUUUCUCU GUAACAGGCUAUGGGAAAACCC GAAGGAACUUUUUG

	TTTG	1243	
AC_000168.1_11255*	AAAAAT ATTTGTT CAGGGT TTT	AC_0 0016 8.1_1 1255	AAAAAUUUUGUUCAGGGUUUU CCAUAGCAUCUUAUGGAAAAAC AUGAACAAGCUUUUUGGC
AC_000168.1_11255	AAACAT GAACAA GCTTTTT GGC	AC_0 0016 8.1_1 1255	AAAAAUUUUGUUCAGGGUUUU CCAUAGCAUCUUAUGGAAAAAC AUGAACAAGCUUUUUGGC
AC_000168.1_11260	AAAAAG TTCTTTC GGGTTTT T	AC_0 0016 8.1_1 1260	AAAAAGUUCUUUCGGGUUUUU UGCACCAUCUACAGAAAAACC CAAACAAACUUUUUGG
AC_000168.1_11260*>AC_0 00171.1_14343*>AC_000180 .1_22115*	AAAACC CAAACA AACTTTT TGG	AC_0 0016 8.1_1 1260	AAAAAGUUCUUUCGGGUUUUU UGCACCAUCUACAGAAAAACC CAAACAAACUUUUUGG
AC_000168.1_11305	CAGGAC TGGGGT GGGCAT GGCT	AC_0 0016 8.1_1 1305	UCUUCCCUUCCCAGAAGCUGCCG UCUGAGUGCUGGUUUGGCUCCU GCCCAGCUGCCAGCUCCAGGACU GGGGUGGGCAUGGCU
AC_000168.1_11305*	TCTTCCC TTCCCA GAAGCT GCC	AC_0 0016 8.1_1 1305	UCUUCCCUUCCCAGAAGCUGCCG UCUGAGUGCUGGUUUGGCUCCU GCCCAGCUGCCAGCUCCAGGACU GGGGUGGGCAUGGCU
AC_000168.1_11353*	CCAGAG ACCTCG GCCAAG CT	AC_0 0016 8.1_1 1353	CCAGAGACCUCGGCCAAGCUAU UGAGGCAUGUGGGCUUCAUUCA CUGCCAUGCUGGGCUGGGGUC GUGGGU

AC_000168.1_11353	CTTGGG CTGGGG TCGTGG GT	AC_0 0016 8.1_1 1353	CCAGAGACCUCGGCCAAGCUAU UGAGGCAUGUGGGCUUCAUUA CUGCCAUGCUUGGGCUGGGGUC GUGGGU
AC_000168.1_11389	ACCACT GGGCAG AGGACA CAT	AC_0 0016 8.1_1 1389	GUGUCCUUUCUCUAAGUGGGCC AGGGAAAGAGAGACAGUCGGGA CCACUGGGCAGAGGACACAU
AC_000168.1_11389*	GTGTCCT TTCTCTA AGTGGC CC	AC_0 0016 8.1_1 1389	GUGUCCUUUCUCUAAGUGGGCC AGGGAAAGAGAGACAGUCGGGA CCACUGGGCAGAGGACACAU
AC_000168.1_11399	CGAGGG ATTGGA GGGGGG GTCA	AC_0 0016 8.1_1 1399	GCCCCAUCCUGCCUCAGGGUA CUCACUACCCGAGGGAUUGGAG GGGGGGUCA
AC_000168.1_11399*	GCCCCAT CCCTGC CCTCAG GG	AC_0 0016 8.1_1 1399	GCCCCAUCCUGCCUCAGGGUA CUCACUACCCGAGGGAUUGGAG GGGGGGUCA
AC_000168.1_11428*	AGCCAC CAGAGC TCTGTCC TCA	AC_0 0016 8.1_1 1428	UGGAGAGAACAGGUGGCUUUCU CCAGGCCAAUGGUUGGAAGCCA CCAGAGCUCUGUCCUCA
AC_000168.1_11428	TGGAGA GAACAG GTGGCT TT	AC_0 0016 8.1_1 1428	UGGAGAGAACAGGUGGCUUUCU CCAGGCCAAUGGUUGGAAGCCA CCAGAGCUCUGUCCUCA
AC_000168.1_11463	AGAATT	AC_0	AGAUGUCCAGCCACAAUUCUCG

	GCGTTT GGACAA TCAGT	0016 8.1_1 1463	GUUGGCCGCAGACUCGUACAAG AAUUGCGUUUGGACAAUCAGU
AC_000168.1_11463*	AGATGT CCAGCC ACAATTC TCGG	AC_0 0016 8.1_1 1463	AGAUGUCCAGCCACAAUUCUCG GUUGGCCGCAGACUCGUACAAG AAUUGCGUUUGGACAAUCAGU
AC_000168.1_11470	CGCTGC GGAAGG GAACGG CG	AC_0 0016 8.1_1 1470	CGCUGCGGAAGGGAACGGCGAG GAGCCGAGGCCGCCGAGCCCCGU CAGUUCSCCCAGCACSCCC
AC_000168.1_11470*	TCAGTTC CCCCAG CACCCC C	AC_0 0016 8.1_1 1470	CGCUGCGGAAGGGAACGGCGAG GAGCCGAGGCCGCCGAGCCCCGU CAGUUCSCCCAGCACSCCC
AC_000168.1_11477	CGCAGG GGCAGA TCTTGG G	AC_0 0016 8.1_1 1477	CGUUUACUGCUUCUGCGAGAUC AAGUGUUGAGGGCGCAGGGGCA GAUCUUGGG
AC_000168.1_11477*	CGTTTAC TGCTTCT GCGAG	AC_0 0016 8.1_1 1477	CGUUUACUGCUUCUGCGAGAUC AAGUGUUGAGGGCGCAGGGGCA GAUCUUGGG
AC_000168.1_11479	CTGGGA TGGGGT TGGGAA GGG	AC_0 0016 8.1_1 1479	UUUCCUAAGCCAUGUUUGGGUG GGUGUCGGGGGUCCUGAGGGC UGGAGGCUGAGGCUGGCAGCCA GCCUGGGAUGGGGUUGGGAAGG G
AC_000168.1_11479*	TTTCCTA	AC_0	UUUCCUAAGCCAUGUUUGGGUG



	AGCCAT GTTTGG G	0016 8.1_1 1479	GGUGUCGGGGGUCCUGAGGGC UGGAGGCUGAGGCUGGCAGCCA GCCUGGGAUGGGGUUGGGAAGG G
AC_000168.1_11607	CAGGGA CTGGGG AGGTGG GT	AC_0 0016 8.1_1 1607	CAGGGACUGGGGAGGUGGGUUG AAUGGAAACACCCUGACUGCUU UCCCCAGGUCUUGACUUUCCCU UUCUGCC
AC_000168.1_11607*	TCTTGAC TTTCCT TTCTGCC	AC_0 0016 8.1_1 1607	CAGGGACUGGGGAGGUGGGUUG AAUGGAAACACCCUGACUGCUU UCCCCAGGUCUUGACUUUCCCU UUCUGCC
AC_000168.1_11715	AGTAGG TTGGTC GGGGGA TGTTT	AC_0 0016 8.1_1 1715	AGUAGGUUGGUCGGGGGAUGUU UUGGGGCAGGGGAGGGGGUGC GAGGUUAUGCCGGGGUCUGUCU GGUGGGGACUAUGAGACAUGCU UG
AC_000168.1_11715*	GGGGAC TATGAG ACATGCT TG	AC_0 0016 8.1_1 1715	AGUAGGUUGGUCGGGGGAUGUU UUGGGGCAGGGGAGGGGGUGC GAGGUUAUGCCGGGGUCUGUCU GGUGGGGACUAUGAGACAUGCU UG
AC_000168.1_11722*	TACCCAT CTTCAG CCGCCT C	AC_0 0016 8.1_1 1722	UACCCAUCUUCAGCCGCCUCUC AUCUCCGACGACUGAGGCAAGA GGGCGCCAGUGAGGAGGAGGAA GGGAAGG
AC_000168.1_11722	TGAGGA GGAGGA AGGGAA	AC_0 0016 8.1_1	UACCCAUCUUCAGCCGCCUCUC AUCUCCGACGACUGAGGCAAGA GGGCGCCAGUGAGGAGGAGGAA

	GG	1722	GGGAAGG
AC_000168.1_11758*	ACCAGG TCCACT GATTTGC GA	AC_0 0016 8.1_1 1758	ACCAGGUCCACUGAUUUGCGAU CAUGC UUAUAUCUCAAAUCAGU GGACCUGGUAG
AC_000168.1_11758	TCAAATC AGTGGA CCTGGT AG	AC_0 0016 8.1_1 1758	ACCAGGUCCACUGAUUUGCGAU CAUGC UUAUAUCUCAAAUCAGU GGACCUGGUAG
AC_000168.1_11764	AAAAAG TTTGTTT GGGGTT TC	AC_0 0016 8.1_1 1764	AAAAAGUUUGUUUGGGGUUUC UGUAAAAUGGAGAAAAUCUGA ACGAACUUUGUGG
AC_000168.1_11764*	GAAAAA TCTGAA CGAACT TTGTGG	AC_0 0016 8.1_1 1764	AAAAAGUUUGUUUGGGGUUUC UGUAAAAUGGAGAAAAUCUGA ACGAACUUUGUGG
AC_000168.1_11854*	CACATAC TACTGC ATGCTCC CAGC	AC_0 0016 8.1_1 1854	CACAUACUACUGCAUGCUCCCA GCCCUUCAGGCAGGAAGUCUGA GCUGGACUGUGGGCUGGAGAGG GGGUGGC
AC_000168.1_11854	TGTGGG CTGGAG AGGGGG TGGC	AC_0 0016 8.1_1 1854	CACAUACUACUGCAUGCUCCCA GCCCUUCAGGCAGGAAGUCUGA GCUGGACUGUGGGCUGGAGAGG GGGUGGC
AC_000168.1_11963*	AAATGC AAATGA AGTTTTT G	AC_0 0016 8.1_1 1963	GAGAGUUUGUUUGGGUUUUUC AUAGGAUGUUAUGGAAAAUGCA AAUGAAGUUUUUG

AC_000168.1_11963	GAGAGT TTGTTT GGTTTT	AC_0 0016 8.1_1 1963	GAGAGUUUGUUUGGGUUUUUCC AUAGGAUGUUAUGGAAAUGCA AAUGAAGUUUUUG
AC_000168.1_12004	AGGCAG CGGAGG CAGACT A	AC_0 0016 8.1_1 2004	GUCAGCCCCGCCUCUCCUCUUU CCCUCCGAGAAGGCAGCGGAGG CAGACUA
AC_000168.1_12004*	GTCAGC CCCGCC TCTTCC	AC_0 0016 8.1_1 2004	GUCAGCCCCGCCUCUCCUCUUU CCCUCCGAGAAGGCAGCGGAGG CAGACUA
AC_000181.1_22498>AC_00 0168.1_12045	AGGGGT GGGGGG GCGGCG	AC_0 0016 8.1_1 2045	AGGGGUGGGGGGGCGGGCAGGG GGGAAGUCCCGAUUCCUAGCCA CAUUCGCUCGCCCCACCUCCACC CCUGC
AC_000168.1_12045*	CCCCAC CTCCAC CCCTGC	AC_0 0016 8.1_1 2045	AGGGGUGGGGGGGCGGGCAGGG GGGAAGUCCCGAUUCCUAGCCA CAUUCGCUCGCCCCACCUCCACC CCUGC
AC_000168.1_12099*	CCGCCT CCTGTCC TCTGCCC TCA	AC_0 0016 8.1_1 2099	UGGGCAGGGUCUCGGGAGGAGG GGCCGUUCUGACAGCUCCGCCUC CUGUCCUCUGCCCUCA
AC_000168.1_12099	TGGGCA GGGTCT CGGGAG GAGGGG	AC_0 0016 8.1_1 2099	UGGGCAGGGUCUCGGGAGGAGG GGCCGUUCUGACAGCUCCGCCUC CUGUCCUCUGCCCUCA
AC_000168.1_12115*	GCCCTG	AC_0	UCCCAAGGCCAGCCCGUGGCAG

	GGCTTG GGCCCT GGAGC	0016 8.1_1 2115	GCAGCUGCACCUCUGCCCUGGGC UUGGGCCCUGGAGC
AC_000168.1_12115	TCCCAA GGCCCA GCCCGT GGCAG	AC_0 0016 8.1_1 2115	UCCCAAGGCCAGCCCGUGGCAG GCAGCUGCACCUCUGCCCUGGGC UUGGGCCCUGGAGC
AC_000169.1_12171*	CCACCTT CCCATTT TACAGAT G	AC_0 0016 9.1_1 2171	CCACCUUCCCAUUUUACAGAUG GGUAAGCAAAGGCCCAUCUGUA UAAUGGGAAGGUGGAC
AC_000169.1_12171	TCTGTAT AATGGG AAGGTG GAC	AC_0 0016 9.1_1 2171	CCACCUUCCCAUUUUACAGAUG GGUAAGCAAAGGCCCAUCUGUA UAAUGGGAAGGUGGAC
AC_000169.1_12190	AAAAGT TCGTTCG GGTTTTT	AC_0 0016 9.1_1 2190	AAAAGUUCGUUCGGGUUUUUUG UUUACAGCUCACUAGAAAACC CAAUGAACUCUUUGG
AC_000169.1_12190*	AAACCC AAATGA ACTCTTT GG	AC_0 0016 9.1_1 2190	AAAAGUUCGUUCGGGUUUUUUG UUUACAGCUCACUAGAAAACC CAAUGAACUCUUUGG
AC_000169.1_12205	AGGCTG GGACAT AGGCTG C	AC_0 0016 9.1_1 2205	CUCCUGAGGUCCGACUCUGAAC UCCAGGCUGGGACAUAGGCUGC
AC_000169.1_12205*	CTCCTG AGGTCC	AC_0 0016	CUCCUGAGGUCCGACUCUGAAC UCCAGGCUGGGACAUAGGCUGC

	GACTCT GA	9.1_1 2205	
AC_000169.1_12217*	GCCTGG TTAAGG CTGTTTG	AC_0 0016 9.1_1 2217	GCCUGGUUAAGGCUGUUUGCCC CUGAGCCAGUCCAGUUUCCCA GGAAU
AC_000169.1_12217	GTCCAG TTTTCCC AGGAAT	AC_0 0016 9.1_1 2217	GCCUGGUUAAGGCUGUUUGCCC CUGAGCCAGUCCAGUUUCCCA GGAAU
AC_000169.1_12227*	CCGCGG CGTGCG GGGCTC CGGGA	AC_0 0016 9.1_1 2227	CCGCGGCGUGCGGGGCUCGGG ACCCGCGGGUCAGUCCGCGGG AGCUCUGGGGGCCGGCGGGC GGCG
AC_000169.1_12227	CTGGGG GCCGGC GGCGGC GGCG	AC_0 0016 9.1_1 2227	CCGCGGCGUGCGGGGCUCGGG ACCCGCGGGUCAGUCCGCGGG AGCUCUGGGGGCCGGCGGGC GGCG
AC_000169.1_12228	CTGGGG GCCGGC GGCGGC GG	AC_0 0016 9.1_1 2228	CUGGGGGCCGGCGGGCGGGC GCACCGCGUCUGAGGGAGCGGA CUCUGCGGUGCGGCCGAAGGAC CGGGCGGUCUGGCAGGC
AC_000169.1_12228*	GAAGGA CCGGGC GGTCTG GCAGGC	AC_0 0016 9.1_1 2228	CUGGGGGCCGGCGGGCGGGC GCACCGCGUCUGAGGGAGCGGA CUCUGCGGUGCGGCCGAAGGAC CGGGCGGUCUGGCAGGC
AC_000169.1_12235	TCACGG TCTCGG CGTCCA	AC_0 0016 9.1_1	UGGGCAGGCCGUUGACCAUGGG AGUAGGCUUGGGAUACUCACGG UCUCGGCGUCCACG

	CG	2235	
AC_000169.1_12235*	TGGGCA GGCCGT TGACCAT GGGAGT	AC_0 0016 9.1_1 2235	UGGGCAGGCCGUUGACCAUGGG AGUAGGCUUGGGAUACUCACGG UCUCGGCGUCCACG
AC_000169.1_12272*	CGCTCCT CCTTGA AGCCTG AATCGG TG	AC_0 0016 9.1_1 2272	CUCGGGGCUGGGAAUGGGGCGG AGACCUGACUGCGCUCCUCCUU GAAGCCUGAAUCGGUG
AC_000169.1_12272	CTCGGG GCTGGG AATGGG GCGGA	AC_0 0016 9.1_1 2272	CUCGGGGCUGGGAAUGGGGCGG AGACCUGACUGCGCUCCUCCUU GAAGCCUGAAUCGGUG
AC_000169.1_12363*	GGTCAA AAAATT CATTCAG ATT	AC_0 0016 9.1_1 2363	GGUCAAAAAAUUCAUUCAGAAU UUUCCAUAACCAUCUUAUGGAAA AAAUCCAAGUGAACUUUUUGGC CAA
AC_000158.1_838>AC_0001 69.1_12363	TCCAAG TGAACT TTTTGGC CAA	AC_0 0016 9.1_1 2363	GGUCAAAAAAUUCAUUCAGAAU UUUCCAUAACCAUCUUAUGGAAA AAAUCCAAGUGAACUUUUUGGC CAA
AC_000169.1_12408	ACATAG GAATTG GGGGCA GGGGTT A	AC_0 0016 9.1_1 2408	ACAUAGGAAUUGGGGGCAGGGG UUACAACUUAACCCUUAACUCA CACUGUGGGC
AC_000169.1_12408*	ACCCTTA ACTCAC	AC_0 0016	ACAUAGGAAUUGGGGGCAGGGG UUACAACUUAACCCUUAACUCA

	ACTGTG GGC	9.1_1 2408	CACUGUGGGC
AC_000169.1_12416	CGGCGG ATAGAG GTGGTG ATG	AC_0 0016 9.1_1 2416	CGGCGGAUAGAGGUGGUGAUGU GUGUAGGGAAGCGAGAAGACAC GCCUUAGACACUUCUGCGGGCU GGG
AC_000169.1_12416*	TTAGAC ACTTCTG CGGGCT GGG	AC_0 0016 9.1_1 2416	CGGCGGAUAGAGGUGGUGAUGU GUGUAGGGAAGCGAGAAGACAC GCCUUAGACACUUCUGCGGGCU GGG
AC_000169.1_12436*	TCAAAT GGACTT TTTGGCC AAC	AC_0 0016 9.1_1 2436	UGGCCACAAAGUUCGUUUGGGU UUUCCAUAACACCUUAUGGGA AACUCAAAUGGACUUUUUGGCC AAC
AC_000169.1_12436>AC_00 0170.1_12928	TGGCCA CAAAGT TCGTTTG GGT	AC_0 0016 9.1_1 2436	UGGCCACAAAGUUCGUUUGGGU UUUCCAUAACACCUUAUGGGA AACUCAAAUGGACUUUUUGGCC AAC
AC_000169.1_12478*	CCGCTA AACTGG GGAAAC CA	AC_0 0016 9.1_1 2478	CCGCUAAACUGGGGAAACCACA GAGUUGUGGUUCCUUAAGUGUA GUGGCU
AC_000169.1_12478	GTTTCCT TAGTGTA GTGGCT	AC_0 0016 9.1_1 2478	CCGCUAAACUGGGGAAACCACA GAGUUGUGGUUCCUUAAGUGUA GUGGCU
AC_000169.1_12491	AAAAGT TCGTTTG GGTTTT	AC_0 0016 9.1_1	AAAAGUUCGUUUGGGUUUCCU AUGACAUCUACAAUAACCUGA ACGAACUUUUUGGA

		2491	
AC_000169.1_12491*	ATAACCT GAACGA ACTTTTT GGA	AC_0 0016 9.1_1 2491	AAAAGUUCGUUUGGGUUUUCCU AUGACAUCUUACAAUAACCUGA ACGAACUUUUUGGA
AC_000169.1_12499	AAACGT TCGTTTG GGTTTTT	AC_0 0016 9.1_1 2499	AAACGUUCGUUUGGGUUUUUUG UACCGUCUCAGGAAAUACCCAG ACGAACCUUUUGG
AC_000169.1_12499*	ATACCCA GACGAA CCTTTTG G	AC_0 0016 9.1_1 2499	AAACGUUCGUUUGGGUUUUUUG UACCGUCUCAGGAAAUACCCAG ACGAACCUUUUGG
AC_000169.1_12501*	CCAGCA GGATCCT AGGGGA	AC_0 0016 9.1_1 2501	UGAGAUGGGGAUCUGAGGGUGGU UCUGGAAUACCAGCAAGCCAGC AGGAUCCUAGGGGA
AC_000169.1_12501	TGAGAT GGGATC TGAGGG TGGTT	AC_0 0016 9.1_1 2501	UGAGAUGGGGAUCUGAGGGUGGU UCUGGAAUACCAGCAAGCCAGC AGGAUCCUAGGGGA
AC_000169.1_12532	AAAACC GAACGA ACTTTTG GGC	AC_0 0016 9.1_1 2532	CAGAAAAUUCACUUGGAUUUUU CUGU AACAGCUUAUGGAGAAAA CCGAACGAACUUUUGGGC
AC_000169.1_12532*	CAGAAA ATCACT TGGATTT TT	AC_0 0016 9.1_1 2532	CAGAAAAUUCACUUGGAUUUUU CUGU AACAGCUUAUGGAGAAAA CCGAACGAACUUUUGGGC



AC_000169.1_12576*	GCACGT GGGATC TTTGTTG T	AC_0 0016 9.1_1 2576	GCACGUGGGAUCUUUGUUGUCU CAUGC GGGAUCUUUUGUUGUGG UG
AC_000169.1_12576	TGCGGG ATCTTTT GTTGTG GTG	AC_0 0016 9.1_1 2576	GCACGUGGGAUCUUUGUUGUCU CAUGC GGGAUCUUUUGUUGUGG UG
AC_000169.1_12603*	AAATCC AAACAA ACTTTCT GG	AC_0 0016 9.1_1 2603	AAGAAGUUCGUUUGGGUUUUUC CAUAAGCUGUCAUGGAAAAAAU CCAAACAAACUUUCUGG
AC_000170.1_12856>AC_00 0176.1_19037>AC_000187.1 _26549>AC_000169.1_12603 >AC_000178.1_20340	AAGAAG TTCGTTT GGGTTTT T	AC_0 0016 9.1_1 2603	AAGAAGUUCGUUUGGGUUUUUC CAUAAGCUGUCAUGGAAAAAAU CCAAACAAACUUUCUGG
AC_000169.1_12635*	CCCCTCT CCTGGC AGCTCG GA	AC_0 0016 9.1_1 2635	GGGGCUGAGAGAGGGGCGCGCG UAGCGGCCCCUCUCCUGGCAGCU CGGA
AC_000169.1_12635	GGGGCT GAGAGA GGGGCG	AC_0 0016 9.1_1 2635	GGGGCUGAGAGAGGGGCGCGCG UAGCGGCCCCUCUCCUGGCAGCU CGGA
AC_000169.1_12701	ATGGATT TTTGGA GCAGGG AGTT	AC_0 0016 9.1_1 2701	AUGGAUUUUUGGAGCAGGGAGU UGGAAUAGGAGCUUGCUCUGUC CACUCCAUGCAUCGACCUAG
AC_000169.1_12701*	CTCCATG	AC_0	AUGGAUUUUUGGAGCAGGGAGU

	CATCGA CCTAG	0016 9.1_1 2701	UGGAAUAGGAGCUUGCUCUGUC CACUCCAUGCAUCGACCUAG
AC_000169.1_12760*	CGAAGG TCCTTGC AGCCAG AAT	AC_0 0016 9.1_1 2760	CGAAGGUCCUUGCAGCCAGAAU GGGGUUCUAUCAUUUGAGACGG GCUAAGCUGGGGUUGCAAAGAG UCGGA
AC_000169.1_12760	TGGGGT TGCAAA GAGTCG GA	AC_0 0016 9.1_1 2760	CGAAGGUCCUUGCAGCCAGAAU GGGGUUCUAUCAUUUGAGACGG GCUAAGCUGGGGUUGCAAAGAG UCGGA
AC_000169.1_12762*	AAAAAG CTCGTTT AGGTTTT CT	AC_0 0016 9.1_1 2762	AAAAAGCUCGUUUAGGUUUUCU GAAUCAUCUUAACAAAACUCUG AAUGAACUUUUUG
AC_000169.1_12762	AAACTC TGAATG AACTTTT TG	AC_0 0016 9.1_1 2762	AAAAAGCUCGUUUAGGUUUUCU GAAUCAUCUUAACAAAACUCUG AAUGAACUUUUUG
AC_000170.1_12790	AAAAAG TTTGGTT GGGTTTT CT	AC_0 0017 0.1_1 2790	AAAAAGUUUGGUUGGGUUUUUCU GUAAGAUUUUACAGAAUAUCU GAAUGAAUUUUUUGG
AC_000170.1_12790*	AAATATC TGAATG AATTTTT TGG	AC_0 0017 0.1_1 2790	AAAAAGUUUGGUUGGGUUUUUCU GUAAGAUUUUACAGAAUAUCU GAAUGAAUUUUUUGG
AC_000170.1_12856*	AAAACC TGAACA	AC_0 0017	AAGAAGUUCGUUUGGGUUUUUC CUUUAAGUGGUAUGGAAAACCU

	AACTTTT TGA	0.1_1 2856	GAACAAACUUUUUGA
AC_000170.1_12856>AC_00 0176.1_19037>AC_000187.1 _26549>AC_000169.1_12603 >AC_000178.1_20340	AAGAAG TTCGTTT GGGTTTT T	AC_0 0017 0.1_1 2856	AAGAAGUUCGUUUGGGUUUUUC CUUUAAGUGGUAUGGAAAACCU GAACAAACUUUUUGA
AC_000170.1_12862*	AAAAAT GCGAAT GAACTT TTTG	AC_0 0017 0.1_1 2862	AAAAAUUCGUUCAGGUUUUUC UGUACGAUGGUAUGGAAAAAAU GCGAAUGAACUUUUUG
AC_000170.1_12862>AC_00 0158.1_689>AC_000158.1_8 69	AAAAAT TTCGTTC AGGTTTT TC	AC_0 0017 0.1_1 2862	AAAAAUUCGUUCAGGUUUUUC UGUACGAUGGUAUGGAAAAAAU GCGAAUGAACUUUUUG
AC_000170.1_12882	AAAAAT TTCGTTC AGGTTTT TT	AC_0 0017 0.1_1 2882	AAAAAUUCGUUCAGGUUUUUU CAUUGCAUUUUAUGGAGAAAUC AUGACGAACCUUUUGG
AC_000170.1_12882*	GAAATC ATGACG AACCTTT TGG	AC_0 0017 0.1_1 2882	AAAAAUUCGUUCAGGUUUUUU CAUUGCAUUUUAUGGAGAAAUC AUGACGAACCUUUUGG
AC_000170.1_12883	GGGGGC CGGCGG CGGCGG CGGC	AC_0 0017 0.1_1 2883	UCAGGCCCCGCCAAAGUUGGUG CUUGUCCUCCAGAAAGCCGGG CGGGGGCCGGCGGCGGCGGCGG C
AC_000170.1_12883*	TCAGGC CCCGCC AAAGTT	AC_0 0017 0.1_1	UCAGGCCCCGCCAAAGUUGGUG CUUGUCCUCCAGAAAGCCGGG CGGGGGCCGGCGGCGGCGGCGG

	GGTGCT TGT	2883	C
AC_000170.1_12916*	ACGATTC ATTTACT CCTTC	AC_0 0017 0.1_1 2916	UGGAGUAUUAUUAUUGUGUGAAU UUAGCACGAUUCAUUUACUCCU UC
AC_000170.1_12916	TGGAGT ATTATAT TGTGT	AC_0 0017 0.1_1 2916	UGGAGUAUUAUUAUUGUGUGAAU UUAGCACGAUUCAUUUACUCCU UC
AC_000170.1_12920*	GCGTCC TTCCAG CCT	AC_0 0017 0.1_1 2920	GCGUCCUCCAGCCUCAGGUAG GGAGAGAGACAUGUCA
AC_000170.1_12920	GTAGGG AGAGAG ACATGTC A	AC_0 0017 0.1_1 2920	GCGUCCUCCAGCCUCAGGUAG GGAGAGAGACAUGUCA
AC_000170.1_12928*	CCGAAC TTTTTGG CCAAC	AC_0 0017 0.1_1 2928	UGGCCACAAAGUUCGUUUGGGU UUUCCAUGUUACGGAAAAACC CGAACUUUUUGGCCAAC
AC_000169.1_12436>AC_00 0170.1_12928	TGGCCA CAAAGT TCGTTTG GGT	AC_0 0017 0.1_1 2928	UGGCCACAAAGUUCGUUUGGGU UUUCCAUGUUACGGAAAAACC CGAACUUUUUGGCCAAC
AC_000170.1_12934*	CCCATT GTCCATG TCTAAA	AC_0 0017 0.1_1	UUUAGACAUGGACAAAUGGGCA GAAUUUUGACUAUAUCUGCCCA UUUGUCCAUGUCUAAAAU

	AT	2934	
AC_000170.1_12934	TTTAGAC ATGGAC AAATGG GCA	AC_0 0017 0.1_1 2934	UUUAGACAUGGACAAAUGGGCA GAAUUUUGACUAUAUCUGCCCA UUUGUCCAUGUCUAAAAU
AC_000170.1_12959*	CAGGGA GGTGTC TCAGTG ACAAGT T	AC_0 0017 0.1_1 2959	CAGGGAGGUGUCUCAGUGACAA GUUUAUCCCCCUGGGGCUUUA CAAACUUGCUGAGUGACCUCCC UGCU
AC_000170.1_12959>AC_00 0170.1_12960	CTTGCTG AGTGAC CTCCCTG CT	AC_0 0017 0.1_1 2959	CAGGGAGGUGUCUCAGUGACAA GUUUAUCCCCCUGGGGCUUUA CAAACUUGCUGAGUGACCUCCC UGCU
AC_000170.1_12960*	CAGAAG AAAGGG CGATGCT GGAC	AC_0 0017 0.1_1 2960	CUUGCUGAGUGACCUCCCUGCU CCUCGCUGGGAGGGUCUACGUU GCAGAGGGUGAGCAGAAGAAAG GGCGAUGCUGGAC
AC_000170.1_12959>AC_00 0170.1_12960	CTTGCTG AGTGAC CTCCCTG CT	AC_0 0017 0.1_1 2960	CUUGCUGAGUGACCUCCCUGCU CCUCGCUGGGAGGGUCUACGUU GCAGAGGGUGAGCAGAAGAAAG GGCGAUGCUGGAC
AC_000170.1_12964	AAAAGT TCTTTCC GGTTTTC CT	AC_0 0017 0.1_1 2964	AAAAGUUCUUCCGGUUUUCU GAAUAUCUUAUAGGAAAACCA GAAUGAACUUA
AC_000170.1_12964*	AGGAAA ACCAGA ATGAAC	AC_0 0017 0.1_1	AAAAGUUCUUCCGGUUUUCU GAAUAUCUUAUAGGAAAACCA GAAUGAACUUA

	TTA	2964	
AC_000167.1_11053*>AC_000170.1_12965>AC_000159.1_2216>AC_000161.1_4718	AAACTT GAATGA ACCTTTT GGCC	AC_0 0017 0.1_1 2965	CCAAGAAGUUCAAUCGGGUUUU UCCAUAUCUAGCUCCUGGAAAAA CUUGAAUGAACCUUUUGGCC
AC_000170.1_12965*	CCAAGA AGTTCA ATCGGG TTTTT	AC_0 0017 0.1_1 2965	CCAAGAAGUUCAAUCGGGUUUU UCCAUAUCUAGCUCCUGGAAAAA CUUGAAUGAACCUUUUGGCC
AC_000170.1_13070*	TCCACA GCTACCT GACA	AC_0 0017 0.1_1 3070	UGAGGUAGCUUGUGUGGUGAGA AGUCACAGAGGACAUUCAGCUG CUCCACAGCUACCUGACA
AC_000170.1_13070	TGAGGT AGCTTG TGTGGT	AC_0 0017 0.1_1 3070	UGAGGUAGCUUGUGUGGUGAGA AGUCACAGAGGACAUUCAGCUG CUCCACAGCUACCUGACA
AC_000170.1_13102*	CCTCAC ATCCCTG CCTCCCC C	AC_0 0017 0.1_1 3102	UGGAGGCUGGGAGUGCAUGAGC UGGCUCUCACCAGCUCCUCACAU CCCUGCCUCCCC
AC_000170.1_13102	TGGAGG CTGGGA GTGCAT GAG	AC_0 0017 0.1_1 3102	UGGAGGCUGGGAGUGCAUGAGC UGGCUCUCACCAGCUCCUCACAU CCCUGCCUCCCC
AC_000170.1_13324	CACCGG AGGCGG GGGATG CGTTGG	AC_0 0017 0.1_1 3324	CUGCGAUUGCCCCCUCCGGCUC UGGCUGCCUUUGCCUGCCUGUC ACCGGAGGCGGGGAUGCGUUG G

AC_000170.1_13324*	CTGCGAT TGCCCC CTTCCG GCTC	AC_0 0017 0.1_1 3324	CUGC GAUUGCCCCCUCCGGCUC UGGCUGCCUUGCCUGCCUGUC ACCGGAGGCGGGGGAUGCGUUG G
AC_000170.1_13351	AATAGTT CGTTCG GGTTTAT C	AC_0 0017 0.1_1 3351	AAUAGUUCGUUCGGGUUAUCC AUAACACCUUAACGAACUUUGU G
AC_000170.1_13351*	TAACAC CTTAAC GAACTT TGTG	AC_0 0017 0.1_1 3351	AAUAGUUCGUUCGGGUUAUCC AUAACACCUUAACGAACUUUGU G
AC_000170.1_13384*	GCCTGC GCAGAG CCTGCC AGAGA	AC_0 0017 0.1_1 3384	GCCUGCGCAGAGCCUGCCAGAG AGAACAGGGAGUCCUCUCUCUG GCCAGACUGUGAGCAGGCAA
AC_000170.1_13384	TCTGGC CAGACT GTGAGC AGGCAA	AC_0 0017 0.1_1 3384	GCCUGCGCAGAGCCUGCCAGAG AGAACAGGGAGUCCUCUCUCUG GCCAGACUGUGAGCAGGCAA
AC_000170.1_13417*	CATAGTC CACCAG ACAGTC CAATGA AA	AC_0 0017 0.1_1 3417	UCAGGGACUGGGGGGAGUUGGC CUUUGGAUAGAGGUCCACAGCC AUAGUCCACCAGACAGUCCAAU GAAA
AC_000170.1_13417	TCAGGG ACTGGG GGGAGT TGGC	AC_0 0017 0.1_1 3417	UCAGGGACUGGGGGGAGUUGGC CUUUGGAUAGAGGUCCACAGCC AUAGUCCACCAGACAGUCCAAU GAAA

AC_000170.1_13423*	ACTGATT CCTGTCT GTTTCCC TAGA	AC_0 0017 0.1_1 3423	AUGGGCUACAGGCAGAAUCUGG GGCCAGCCACUGAUUCCUGUCU GUUUCCCUAGA
AC_000170.1_13423	ATGGGC TACAGG CAGAAT CTGG	AC_0 0017 0.1_1 3423	AUGGGCUACAGGCAGAAUCUGG GGCCAGCCACUGAUUCCUGUCU GUUUCCCUAGA
AC_000170.1_13425*	AGGAGC CGTGTC CCCCTC A	AC_0 0017 0.1_1 3425	UGGGUGGAACUAGGCAGCCUGG GCCCGUGCCCACACCCAGGAGCC GUGUCCCCCUCA
AC_000170.1_13425	TGGGTG GAACTA GGCAGC CTGG	AC_0 0017 0.1_1 3425	UGGGUGGAACUAGGCAGCCUGG GCCCGUGCCCACACCCAGGAGCC GUGUCCCCCUCA
AC_000170.1_13483*	ATTCCT CCAGGC ATGAAG TAGA	AC_0 0017 0.1_1 3483	UGCAUUGUGAAUGGGGAGACAU GGAGGUUUUUGGAUCUGAUUUG UCCCAUUUCCUCCAGGCAUGA AGUAGA
AC_000170.1_13483	TGCATTG TGAATG GGGAGA CATGG	AC_0 0017 0.1_1 3483	UGCAUUGUGAAUGGGGAGACAU GGAGGUUUUUGGAUCUGAUUUG UCCCAUUUCCUCCAGGCAUGA AGUAGA
AC_000170.1_13536*	TGAGCC TGAGGC CTCCCC	AC_0 0017 0.1_1 3536	UGAGCCUGAGGCCUCCCCAGAU GAGGUAGUAGGUUGUGG
AC_000170.1_13536	TGAGGT	AC_0	UGAGCCUGAGGCCUCCCCAGAU



	AGTAGG TTGTGG	0017 0.1_1 3536	GAGGUAGUAGGUUGUGG
AC_000170.1_13547*	AAAAC T TGAATG AACTTTT TGGC	AC_0 0017 0.1_1 3547	AAUAAGUUCGUUUGGGUUUUUC CAUAAGAUGUAAUGGGAAAACU UGAAUGAACUUUUUGGC
AC_000170.1_13547>AC_00 0174.1_16244>AC_000165.1 _8867>AC_000181.1_22697	AATAAG TTCGTTT GGGTTTT T	AC_0 0017 0.1_1 3547	AAUAAGUUCGUUUGGGUUUUUC CAUAAGAUGUAAUGGGAAAACU UGAAUGAACUUUUUGGC
AC_000170.1_13572	AAAAAG GTCGTTC GGGTTTT T	AC_0 0017 0.1_1 3572	AAAAAGGUCGUUCGGGUUUUUG UAGCAGAUGUUCUGGAAAGACC UGAAUGAACUUUUUG
AC_000170.1_13572*	AAAGAC CTGAAT GAACTT TTTG	AC_0 0017 0.1_1 3572	AAAAAGGUCGUUCGGGUUUUUG UAGCAGAUGUUCUGGAAAGACC UGAAUGAACUUUUUG
AC_000170.1_13588*	GTGGAA GCATTTT AGG	AC_0 0017 0.1_1 3588	GUGGAAGCAUUUCAGGCAGAGG GUACAGUACCUGAAGAGGCCUG AGGUAGGAGGGUGUAUGG
AC_000170.1_13588	TGAGGT AGGAGG GTGTATG G	AC_0 0017 0.1_1 3588	GUGGAAGCAUUUCAGGCAGAGG GUACAGUACCUGAAGAGGCCUG AGGUAGGAGGGUGUAUGG
AC_000170.1_13593	ACTCCC GGTGGG	AC_0 0017	ACUCCCGGUGGGCAACGCGCCG GCCGUGCUUCAAGCUAAUGGA

	CAACGC GC	0.1_1 3593	AGGAGGCGCGCUGCAUGCCGGG AGGCU
AC_000170.1_13593*	GCGCTG CATGCC GGGAGG CT	AC_0 0017 0.1_1 3593	ACUCCCGGUGGGCAACGCGCCG GCCGUGCUUCAAGCUAAUGGA AGGAGGCGCGCUGCAUGCCGGG AGGCU
AC_000170.1_13634	AAACCC TGGAGC TTTCATA CACTA	AC_0 0017 0.1_1 3634	GUCUCUGAAAGACCUUCCCCG UGUUUGAAGGGCCAGCCGUCC CUUCCAAACCCUGGAGCUUUCA UACACUA
AC_000170.1_13634*	GTCTCTG AAAGAC CTTTCCC CGTGTTT GA	AC_0 0017 0.1_1 3634	GUCUCUGAAAGACCUUCCCCG UGUUUGAAGGGCCAGCCGUCC CUUCCAAACCCUGGAGCUUUCA UACACUA
AC_000170.1_13735	CTCCCC GGCATCT CCCCCA	AC_0 0017 0.1_1 3735	CUCCCCGGCAUCUCCCCACUCU CAGGCACGCUCUCCCCGGUGGU GCAAGGUGUAUCCGCGGAGUC
AC_000170.1_13735*	GTGCAA GGTGTAT CCGCGG AGTC	AC_0 0017 0.1_1 3735	CUCCCCGGCAUCUCCCCACUCU CAGGCACGCUCUCCCCGGUGGU GCAAGGUGUAUCCGCGGAGUC
AC_000171.1_13806	GCTGAG GAGGAA GAGGAG GGGGA	AC_0 0017 1.1_1 3806	GCUGAGGAGGAAGAGGAGGGGG AGGCGGCGGCAGCAGCAGAGGA GGAGAAGGCGGUGGCCUCUGCG CCCUCUGUCAAGGUGG
AC_000171.1_13806*	TGCGCC CTCTGTC	AC_0 0017	GCUGAGGAGGAAGAGGAGGGGG AGGCGGCGGCAGCAGCAGAGGA

	AAGGTG G	1.1_1 3806	GGAGAAGGCGGUGGCCUCUGCG CCCUCUGUCAAGGUGG
AC_000171.1_13810*	ACCTTAC CTGCCTT CTGAGA AA	AC_0 0017 1.1_1 3810	UCUCGGAACGCAGGUAAGAUGG UCACCAGACCACCUUACCUGCCU UCUGAGAAA
AC_000171.1_13810	TCTCGG AACGCA GGTAAG ATGG	AC_0 0017 1.1_1 3810	UCUCGGAACGCAGGUAAGAUGG UCACCAGACCACCUUACCUGCCU UCUGAGAAA
AC_000171.1_13857	ACAGGA TCGGGG AGGATG GGA	AC_0 0017 1.1_1 3857	UCGGAGAUGAUUCUGGGAAGGA GAACCACAGGAUCGGGGAGGAU GGGA
AC_000171.1_13857*	TCGGAG ATGATTC TGGGA	AC_0 0017 1.1_1 3857	UCGGAGAUGAUUCUGGGAAGGA GAACCACAGGAUCGGGGAGGAU GGGA
AC_000171.1_13907	CGGGAC TGGGGG GTGGGG GCGGA	AC_0 0017 1.1_1 3907	UGCCCAGCCAUACUGUUAGUCU CUGCCUAAAGUACAUUCUAAU AAAGCAAAGGCGGGACUGGGGG GUGGGGGCGGA
AC_000171.1_13907*	TGCCCA GCCATAC TGTTAGT CTCTGCC	AC_0 0017 1.1_1 3907	UGCCCAGCCAUACUGUUAGUCU CUGCCUAAAGUACAUUCUAAU AAAGCAAAGGCGGGACUGGGGG GUGGGGGCGGA
AC_000171.1_13919	TCAAAA GCGAGG CCTGGG	AC_0 0017 1.1_1	UGUUUGGCCUCACUCCCAGAU GGUCUGAUUUAACUCAUAAAA GCGAGGCCUGGGCAUC

	CATC	3919	
AC_000171.1_13919*	TGTTTGG GCCTCA CTCCCA GATG	AC_0 0017 1.1_1 3919	UGUUUGGGCCUCACUCCCAGAU GGUCUGAUUUUAAUCUCAUAAAA GCGAGGCCUGGGCAUC
AC_000171.1_13921	AGCAGC AGTGTA CAGGGC TCTG	AC_0 0017 1.1_1 3921	GAGUAUUUUGUACAGUUGUUUG UGGCCAUUUUACAUCCCAGCAG CAGUGUACAGGGCUCUG
AC_000171.1_13921*	GAGTATT TTGTACA GTTGTTT GTGG	AC_0 0017 1.1_1 3921	GAGUAUUUUGUACAGUUGUUUG UGGCCAUUUUACAUCCCAGCAG CAGUGUACAGGGCUCUG
AC_000171.1_13936	CGCGGC GCGCCC TGGACG GCGGA	AC_0 0017 1.1_1 3936	CGCGGCGCGCCCUGGACGGCGG AACCCGCUGCCUUCUACGAGCCC GGCCGCG
AC_000171.1_13936*	TCTACG AGCCCG GCCGCG	AC_0 0017 1.1_1 3936	CGCGGCGCGCCCUGGACGGCGG AACCCGCUGCCUUCUACGAGCCC GGCCGCG
AC_000171.1_14018	AAAAAG TTCGTTG GGTTTTT	AC_0 0017 1.1_1 4018	AAAAAGUUCGUUGGGUUUUUCC AUUGCAUCUUAUGGAAAAAUCU GAAUGACCUUGUUGG
AC_000171.1_14018*	AAATCT GAATGA CCTTGTT GG	AC_0 0017 1.1_1 4018	AAAAAGUUCGUUGGGUUUUUCC AUUGCAUCUUAUGGAAAAAUCU GAAUGACCUUGUUGG

AC_000171.1_14048*	AAAACC CGAGCA AACTTCT TGG	AC_0 0017 1.1_1 4048	AAGAAGUUCGUUCAGGUUUUUC CAU AACAGCUUACAGAAAACC CGAGCAAACUUCUUGG
AC_000167.1_11053>AC_00 0171.1_14048	AAGAAG TTCGTC AGGTTTT TC	AC_0 0017 1.1_1 4048	AAGAAGUUCGUUCAGGUUUUUC CAU AACAGCUUACAGAAAACC CGAGCAAACUUCUUGG
AC_000171.1_14080	AAGAGT TTGTTCG GGTTTTT CT	AC_0 0017 1.1_1 4080	AAGAGUUUGUUCGGGUUUUUCU GUACCAUUUUAUGGAGAAACCC GCGCAUACUUUUUUUG
AC_000171.1_14080*	AGAAAC CCGCGC ATACTTT TTTTG	AC_0 0017 1.1_1 4080	AAGAGUUUGUUCGGGUUUUUCU GUACCAUUUUAUGGAGAAACCC GCGCAUACUUUUUUUG
AC_000171.1_14105*	ACTCAC TCCCCA CGTTCCC AAGTC	AC_0 0017 1.1_1 4105	ACUCACUCCCCACGUUCCCAAGU CAAGCUGCCCUCCCGCACAUUCAG GGAGUGGCCACGCCAUUCCUUG GGGGGCAGAGGGGUGC
AC_000171.1_14105	CTTGGG GGGCAG AGGGGT GC	AC_0 0017 1.1_1 4105	ACUCACUCCCCACGUUCCCAAGU CAAGCUGCCCUCCCGCACAUUCAG GGAGUGGCCACGCCAUUCCUUG GGGGGCAGAGGGGUGC
AC_000171.1_14154*	ATCTTGG GCCAGA GGTCAA CGGGGC G	AC_0 0017 1.1_1 4154	CCCUUGGGGUGUGGAAGGAGGC UGUGUGGGAGGGGCAUCUUGGG CCAGAGGUCAACGGGGCG

NW_003099614.1_27214>A C_000171.1_14154	CCCTGG GGCTGT GGAAGG AGGC	AC_0 0017 1.1_1 4154	CCCUGGGGCUGUGGAAGGAGGC UGUGUGGGAGGGGCAUCUUGGG CCAGAGGUCAACGGGGCG
AC_000171.1_14197	CGGGGA CTGGGG AGGGCA GGAGA	AC_0 0017 1.1_1 4197	CGGGGACUGGGGAGGGCAGGAG AUGCAUCUGGCCUGGCAUCCC AGCCCGGA
AC_000171.1_14197*	TCTGGC CCTGGC ATCCCA GCCCGG A	AC_0 0017 1.1_1 4197	CGGGGACUGGGGAGGGCAGGAG AUGCAUCUGGCCUGGCAUCCC AGCCCGGA
AC_000171.1_14322*	GCATTCA CCGCGT GCCTTA ATT	AC_0 0017 1.1_1 4322	GCAUUCACCGCGUGCCUAAAU GUAUGACAUUAAAUCAAGGUCC GCUGUGAACACGG
AC_000171.1_14322	TCAAGG TCCGCT GTGAAC ACGG	AC_0 0017 1.1_1 4322	GCAUUCACCGCGUGCCUAAAU GUAUGACAUUAAAUCAAGGUCC GCUGUGAACACGG
AC_000171.1_14336	CGGCGG CGGCGG CGACTC C	AC_0 0017 1.1_1 4336	UGCCGCCGCCGCCUCCUCCA GAGGCUCCGCAGACUCCGCCGUC UCUGGCAGCGGCGGCGGGCG ACUCC
AC_000171.1_14336*	TGCCGC CGCCGC CGCCTC C	AC_0 0017 1.1_1 4336	UGCCGCCGCCGCCUCCUCCA GAGGCUCCGCAGACUCCGCCGUC UCUGGCAGCGGCGGCGGGCG ACUCC

AC_000171.1_14340	CGGGAG AAGGAA GGGCTT	AC_0 0017 1.1_1 4340	GCGCUUUCUUUCCGCUUGGCC GCGGGAGAAGGAAGGGCUU
AC_000171.1_14340*	GCGCTTT CTTTTCC GCT	AC_0 0017 1.1_1 4340	GCGCUUUCUUUCCGCUUGGCC GCGGGAGAAGGAAGGGCUU
AC_000171.1_14343>AC_00 0183.1_24077	AAAAAT TTCGTTT GGGTTTT T	AC_0 0017 1.1_1 4343	AAAAAUUCGUUCGGGUUUUUC CGUAUGAUGUCACAGAAAACC CAAACAAACUUUUUGG
AC_000168.1_11260*>AC_0 00171.1_14343*>AC_000180 .1_22115*	AAAACC CAAACA AACTTTT TGG	AC_0 0017 1.1_1 4343	AAAAAUUCGUUCGGGUUUUUC CGUAUGAUGUCACAGAAAACC CAAACAAACUUUUUGG
AC_000171.1_14442	CCTGTG GGTGGG GGAGTC GGGA	AC_0 0017 1.1_1 4442	CUGACCUCCCACUCAGUGAGGG GGCGGGGCAUUCGGGGGUGGGGA AGACUCCUGCAUCAGAAACCU GUGGGUGGGGGAGUCGGGA
AC_000171.1_14442*	CTGACC TCCCCT CAGTGA GGGG	AC_0 0017 1.1_1 4442	CUGACCUCCCACUCAGUGAGGG GGCGGGGCAUUCGGGGGUGGGGA AGACUCCUGCAUCAGAAACCU GUGGGUGGGGGAGUCGGGA
AC_000171.1_14447	CAGGAG TGGGATT GCTGGG T	AC_0 0017 1.1_1 4447	GUCCAGUUUCCCAGGGAGGGG UGCACGUAUCUUUUUGAAUUAG GGUUUUCUCCAGAUACAUGCCC AGGAGUGGGAUUGCUGGGU
AC_000171.1_14447*	GTCCAG	AC_0	GUCCAGUUUCCCAGGGAGGGG

	TTTTCCC AGGGAG	0017 1.1_1 4447	UGCACGUAUCUUUUUGAAUUAG GGUUUUCUCCAGAUACAUGCCC AGGAGUGGGAUUGCUGGGU
AC_000171.1_14457	AAAAAG TTAGTTT AGGTTTT TC	AC_0 0017 1.1_1 4457	AAAAAGUUAGUUUAGGUUUUUC CAUAAGAUGUUACAGGAAAACU UGAACAAACUUU
AC_000171.1_14457*	AAAAC TGAACA AACTTT	AC_0 0017 1.1_1 4457	AAAAAGUUAGUUUAGGUUUUUC CAUAAGAUGUUACAGGAAAACU UGAACAAACUUU
AC_000171.1_14463*	AAAACA TGAATG AACGTT TTG	AC_0 0017 1.1_1 4463	AAAAGUUCUCCGGGUUUUUC AUAAAUGUAGUGGAAAACAU GAAUGAACGUUUUG
AC_000171.1_14463	AAAAGT TCTCCG GGTTTT C	AC_0 0017 1.1_1 4463	AAAAGUUCUCCGGGUUUUUC AUAAAUGUAGUGGAAAACAU GAAUGAACGUUUUG
AC_000171.1_14499*	AACCAA ACAAAC TTCCGG	AC_0 0017 1.1_1 4499	GAAAAGUUGGUUUGGGUUUUUC CGUAAGGUGGUAUGGAAAACCA AACAAACUUCCGG
AC_000171.1_14499	GAAAAG TTGGTTT GGGTTTT T	AC_0 0017 1.1_1 4499	GAAAAGUUGGUUUGGGUUUUUC CGUAAGGUGGUAUGGAAAACCA AACAAACUUCCGG
AC_000172.1_14543	AGGCTG GGAAAG	AC_0 0017	GAACCUCUUCUCCUCCUCUCU GCGGGUAGAGGCUGGGAAAGA



	AGGAGG TTCAA	2.1_1 4543	GGAGGUUCAA
AC_000172.1_14543*	GAACCT CTTCTTC CTTCCTC T	AC_0 0017 2.1_1 4543	GAACCUCUUCUCCUCCUCUCU GCGGGUUAGAGGCUGGGAAAGA GGAGGUUCAA
AC_000172.1_14545	CTGGGT GGGCTG GGGCGG AAG	AC_0 0017 2.1_1 4545	GCCGCUCUCGGGGCCUAAGCGG GAGCGGCUGGGACGGCGUCACU GGGUGGGCUGGGGCGGAAG
AC_000172.1_14545*	GCCGCT CTCGGG GCCTAA GCGGGA	AC_0 0017 2.1_1 4545	GCCGCUCUCGGGGCCUAAGCGG GAGCGGCUGGGACGGCGUCACU GGGUGGGCUGGGGCGGAAG
AC_000172.1_14566	AAAAGT TCGTTCA GGGTTTT	AC_0 0017 2.1_1 4566	AAAAGUUCGUUCAGGGUUUUC AUACGCUCUUAUGGCAAAAUCU GAAUGCACUUUUUG
AC_000172.1_14566*	AAAATC TGAATG CACTTTT TG	AC_0 0017 2.1_1 4566	AAAAGUUCGUUCAGGGUUUUC AUACGCUCUUAUGGCAAAAUCU GAAUGCACUUUUUG
AC_000172.1_14580	AAACGT TCTTTTG GGTTTT	AC_0 0017 2.1_1 4580	AAACGUUCUUUUGGGUUUUUCU AUAACAUCUUAUGGAAAAACCC AAACGAACCUUUUG
AC_000172.1_14580*	AACCCA AACGAA CCTTTTG	AC_0 0017 2.1_1	AAACGUUCUUUUGGGUUUUUCU AUAACAUCUUAUGGAAAAACCC AAACGAACCUUUUG

		4580	
AC_000172.1_14609	GCAGGG CTGTGA GGAGGG GATGGG C	AC_0 0017 2.1_1 4609	UGGGACCUGUGCUCAGGGUCCC UGCGCUGGGGGUACAGUCAGCA GGGCUGUGAGGAGGGGAUGGGC
AC_000172.1_14609*	TGGGAC CTGTGCT CAGGGT CCCTGC GC	AC_0 0017 2.1_1 4609	UGGGACCUGUGCUCAGGGUCCC UGCGCUGGGGGUACAGUCAGCA GGGCUGUGAGGAGGGGAUGGGC
AC_000162.1_5661>AC_000 172.1_14626	AAAAGA TTTGTTT GGGTTTT	AC_0 0017 2.1_1 4626	AAAAGAUUUGUUUGGGUUUCCC CAUAACAUCAUACAGGAAAACC CGAACGAACCUUUUGG
AC_000172.1_14626*	AACCCG AACGAA CCTTTTG G	AC_0 0017 2.1_1 4626	AAAAGAUUUGUUUGGGUUUCCC CAUAACAUCAUACAGGAAAACC CGAACGAACCUUUUGG
AC_000172.1_14662*	AACAGC ATCGTG GGCCTC CGGT	AC_0 0017 2.1_1 4662	AGAGGACCACUUGCUGCUGAUG GAAACGAAGAGGAUGCUCCAAC AGCAUCGUGGGCCUCCGGU
AC_000172.1_14662	AGAGGA CCACTT GCTGCT GATGGA	AC_0 0017 2.1_1 4662	AGAGGACCACUUGCUGCUGAUG GAAACGAAGAGGAUGCUCCAAC AGCAUCGUGGGCCUCCGGU
AC_000172.1_14690	AAGGCA GACTTCT	AC_0 0017	AAGGCAGACUUCUUUAAACUUU GUGUUUUUAUGUUUGCAAUUUU

	TTAAACT TT	2.1_1 4690	CCAUAUAUAAAAGUUAAAAGAA GUCUGCCUUGC
AC_000172.1_14690*	AAGTTT AAAGAA GTCTGC CTTGC	AC_0 0017 2.1_1 4690	AAGGCAGACUUCUUAAAACUUU GUGUUUUUAUGUUUGCAAUUUU CCAUAUAUAAAAGUUAAAAGAA GUCUGCCUUGC
AC_000172.1_14714	AAAACC TGAATG AACTTTT CGG	AC_0 0017 2.1_1 4714	AAAAGGUUCAUUUGGGGUUUC CGUAAGAUGUUACAAAAAACCU GAAUGAACUUUUCGG
AC_000172.1_14714*	AAAAGG TTCATTT GGGGTT TCCC	AC_0 0017 2.1_1 4714	AAAAGGUUCAUUUGGGGUUUC CGUAAGAUGUUACAAAAAACCU GAAUGAACUUUUCGG
AC_000172.1_14721	AAAAAG TTCGTTC GATTTTT C	AC_0 0017 2.1_1 4721	AAAAAGUUCGUUCGAUUUUUUC UUAAGAUUAUACGGGAAAACCC GAAGGAACUUUUU
AC_000172.1_14721*	GAAAAC CCGAAG GAACTT TTT	AC_0 0017 2.1_1 4721	AAAAAGUUCGUUCGAUUUUUUC UUAAGAUUAUACGGGAAAACCC GAAGGAACUUUUU
AC_000172.1_14757*	CTGGGC AACGGC TCCTTCA TCG	AC_0 0017 2.1_1 4757	CUGGGCAACGGCUCCUUCAUCG AGCACCUCCCAGGCCGGCUGUG GGAGGGCAGCACCAGGUGAGGG CGUGGUGGUGAGGCU
AC_000172.1_14757	GTGAGG GCGTGG TGGTGA	AC_0 0017 2.1_1	CUGGGCAACGGCUCCUUCAUCG AGCACCUCCCAGGCCGGCUGUG GGAGGGCAGCACCAGGUGAGGG

	GGCT	4757	CGUGGUGGUGAGGCU
AC_000172.1_14768	AAAGGT TCGTTCA GGTTTT	AC_0 0017 2.1_1 4768	AAAGGUUCGUUCAGGUUUUCCC AUAUGAUGUAUGUUUGGAAAAC ACCCGAAUGAACAUUCUG
AC_000172.1_14768*	AACACC CGAATG AACATTC TG	AC_0 0017 2.1_1 4768	AAAGGUUCGUUCAGGUUUUCCC AUAUGAUGUAUGUUUGGAAAAC ACCCGAAUGAACAUUCUG
AC_000172.1_14773	TTCAGT GATGAC ACGATG ACGAGT	AC_0 0017 2.1_1 4773	UUGUCCUUGUCUCAGCCACUGG UGUACCCUUCAGUGAUGACACG AUGACGAGU
AC_000172.1_14773*	TTGTCCT TGTCTCA GCCACT GGTGT	AC_0 0017 2.1_1 4773	UUGUCCUUGUCUCAGCCACUGG UGUACCCUUCAGUGAUGACACG AUGACGAGU
AC_000172.1_14830*	CGACTA AGGCGA CTTAGCT TAGC	AC_0 0017 2.1_1 4830	UAGGGGGUCACAUAGAGUCGGA CACGACUAAGGCGACUUAGCUU AGC
AC_000172.1_14830	TAGGGG GTCACAT AGAGTC GGA	AC_0 0017 2.1_1 4830	UAGGGGGUCACAUAGAGUCGGA CACGACUAAGGCGACUUAGCUU AGC
AC_000172.1_14845	GAAATA GGTTGG GGGAC ACT	AC_0 0017 2.1_1 4845	UGUCCCCUCCUCUUAUUAAGA AGCCUCGGAAAUAGGUUGGGGG GACACU

AC_000172.1_14845*	TGTCCCC TCCCTCT TATTAAG A	AC_0 0017 2.1_1 4845	UGUCCCCUCCUCUUAUUAAGA AGCCUCGGAAAUAGGUUGGGGG GACACU
AC_000172.1_14855*	CAGGCC CCCTTCC TGGCCA GACA	AC_0 0017 2.1_1 4855	CAGGCCCCCUUCCUGGCCAGACA CACCAGAGCCUGGACAAGAAGG AGGCCCCAA
AC_000172.1_14855	CCTGGA CAAGAA GGAGGC CCCAA	AC_0 0017 2.1_1 4855	CAGGCCCCCUUCCUGGCCAGACA CACCAGAGCCUGGACAAGAAGG AGGCCCCAA
AC_000172.1_14892>AC_00 0187.1_26511	AAAAAG GTCGTTC AGGTTTT	AC_0 0017 2.1_1 4892	AAAAAGGUCGUUCAGGUUUUCC CGUAAGAU AUGGAAAAACUUGA AUA AACUUUUUGG
AC_000172.1_14892*	AACTTG AATAAA CTTTTTG G	AC_0 0017 2.1_1 4892	AAAAAGGUCGUUCAGGUUUUCC CGUAAGAU AUGGAAAAACUUGA AUA AACUUUUUGG
AC_000172.1_14910*	CTCCCTA ACCCTG CAGACA GG	AC_0 0017 2.1_1 4910	UGCUCAGGGCUGGUUGUUGGUU ACACCCACAUCUCCUUGAGGAU GGGUGGGCCCUCCUAACCCUGC AGACAGG
AC_000172.1_14910	TGCTCA GGGCTG GTTGTTG G	AC_0 0017 2.1_1 4910	UGCUCAGGGCUGGUUGUUGGUU ACACCCACAUCUCCUUGAGGAU GGGUGGGCCCUCCUAACCCUGC AGACAGG
AC_000172.1_15022	CAA ACT	AC_0	UGUCCAAACCAUAGAAGGUGC

	ACGGGC TGTGGG TGACGG A	0017 2.1_1 5022	AGCAGCAAGAGUGAAGCCUGAU GCAAACUACGGGCUGUGGGUGA CGGA
AC_000172.1_15022*	TGTCCA AACCCA TAGAAG GTGCAG CAGCA	AC_0 0017 2.1_1 5022	UGUCCAAACCCAUAGAAGGUGC AGCAGCAAGAGUGAAGCCUGAU GCAAACUACGGGCUGUGGGUGA CGGA
AC_000172.1_15029*	AAAAAC CCGAGT GAACTT TTTG	AC_0 0017 2.1_1 5029	AACAAGUUUGUUUGGGUUUCC AUAAGAGGGUAUAGAAAAACCC GAGUGAACUUUUUG
AC_000172.1_15029	AACAAG TTTGTTT GGGTTTT C	AC_0 0017 2.1_1 5029	AACAAGUUUGUUUGGGUUUCC AUAAGAGGGUAUAGAAAAACCC GAGUGAACUUUUUG
AC_000172.1_15059	AAAGGT TCGTTCG GGTTTT	AC_0 0017 2.1_1 5059	AAAGGUUCGUUCGGGUUUUCCU GUAUGAUGUUAUGGGAAAACCC AAACAAAUCUUUUUG
AC_000172.1_15059*	AACCCA AACAAA TCTTTTG	AC_0 0017 2.1_1 5059	AAAGGUUCGUUCGGGUUUUCCU GUAUGAUGUUAUGGGAAAACCC AAACAAAUCUUUUUG
AC_000172.1_15074	CAGGAA GTGGTC GGGGAT GTCA	AC_0 0017 2.1_1 5074	CCAUCCCUACUCCUGGCUCUGUC UGCUGACCUCACAGUGCUCAC AGGCACAGGAAGUGGUCGGGGA UGUCA

AC_000172.1_15074*	CCATCCC TACTCCT GGC	AC_0 0017 2.1_1 5074	CCAUCCCUACUCCUGGCUCUGUC UGCUGACCUCACAGUGCUCAC AGGCACAGGAAGUGGUCGGGGA UGUCA
AC_000172.1_15078*	CAGGGT GGGGAT GGAGGT GGAGC	AC_0 0017 2.1_1 5078	CAGGGUGGGGAUGGAGGUGGAG CUGAGACCCACCGAACCCUUCUC CCCUUCCUCCUGCCCAGG
AC_000172.1_15078	TCTCCCC TTCCTCC CTGCCC AGG	AC_0 0017 2.1_1 5078	CAGGGUGGGGAUGGAGGUGGAG CUGAGACCCACCGAACCCUUCUC CCCUUCCUCCUGCCCAGG
AC_000172.1_15157*	AAGTTT AAAGAA GTCTGC CTTGT	AC_0 0017 2.1_1 5157	AGGCAGACUUCUUAAACUUUA UAUUAUGGAAAAUUGCAAACA AAAAACACAAAGUUUAAAGAAG UCUGCCUUGU
AC_000172.1_15157	AGGCAG ACTTCTT TAAACTT	AC_0 0017 2.1_1 5157	AGGCAGACUUCUUAAACUUUA UAUUAUGGAAAAUUGCAAACA AAAAACACAAAGUUUAAAGAAG UCUGCCUUGU
AC_000172.1_15174*	GCAGTT TCTCCTC TCCGTG AGC	AC_0 0017 2.1_1 5174	GCAGUUUCUCCUCUCCGUGAGC CUGGCAGACGCUCACGGAGAGG AGAAACUGCGA
AC_000172.1_15174	TCACGG AGAGGA GAAACT GCGA	AC_0 0017 2.1_1 5174	GCAGUUUCUCCUCUCCGUGAGC CUGGCAGACGCUCACGGAGAGG AGAAACUGCGA
AC_000172.1_15184	AAAACT	AC_0	AAAGUUCGUUCAGGUUUUAGA

	GAACAA GCTTTTT GGC	0017 2.1_1 5184	UACAGUGUUUGGAAAAAACUGA ACAAGCUUUUUGGC
AC_000177.1_19362>AC_00 0172.1_15184*	AAAGTT CGTTCA GGTTTTT	AC_0 0017 2.1_1 5184	AAAGUUCGUUCAGGUUUUUAGA UACAGUGUUUGGAAAAAACUGA ACAAGCUUUUUGGC
AC_000172.1_15186*>AC_0 00176.1_18449*	GTCGAG GCTAGA GTCACG CTTGGG TAT	AC_0 0017 2.1_1 5186	GUCGAGGCUAGAGUCACGCUUG GGUAUCCACUGUUGCCUAGUG UGCUAGAGUCCUCGAAG
AC_000172.1_15186	TAGTGT GCTAGA GTCCTC GAAG	AC_0 0017 2.1_1 5186	GUCGAGGCUAGAGUCACGCUUG GGUAUCCACUGUUGCCUAGUG UGCUAGAGUCCUCGAAG
AC_000172.1_15210*	ACCCCA CCCCCTC CCTAGA GG	AC_0 0017 2.1_1 5210	ACCCACCCCUCCUAGAGGAG AUGGUACAAGUGGCAAUGAGAG UGCAACAGACCAGGGUGUCUGC CUCCUGGGGGUCGGGGAGGGGG UGC
AC_000172.1_15210	TCCTGG GGGTCG GGGAGG GGGTGC	AC_0 0017 2.1_1 5210	ACCCACCCCUCCUAGAGGAG AUGGUACAAGUGGCAAUGAGAG UGCAACAGACCAGGGUGUCUGC CUCCUGGGGGUCGGGGAGGGGG UGC
AC_000172.1_15215	AAGGGG ATAGAG GCAAGG	AC_0 0017 2.1_1	AAGGGGAUAGAGGCAAGGGACU CUGGUCAUCAUUUGCUCUGCCC AUGUCCCCUAG



	GACT	5215	
AC_000172.1_15215*	TTGCTCT GCCCAT GTCCCCT AG	AC_0 0017 2.1_1 5215	AAGGGGAUAGAGGCAAGGGACU CUGGUCAUCAUUUGCUCUGCCC AUGUCCCCUAG
AC_000172.1_15243*	TCTACTT CCCTGCT ACCTGC C	AC_0 0017 2.1_1 5243	UUGGUAGACGGGAAGGACUGGG AGAAGAGGUCCUUCUACUUCCC UGCUACCUGCC
AC_000172.1_15243	TTGGTA GACGGG AAGGAC TGG	AC_0 0017 2.1_1 5243	UUGGUAGACGGGAAGGACUGGG AGAAGAGGUCCUUCUACUUCCC UGCUACCUGCC
AC_000173.1_15320*	AAAGAA CTCCACT CTCCTCT CGAG	AC_0 0017 3.1_1 5320	CGAAAGGUAUCUCGGGGUUGCA UUCAAGGUUCACCAGGGAGUCA GGCCUGGUCUCAUCUGGAAGCA AAGAACUCCACUCUCCUCUCGA G
AC_000173.1_15320	CGAAAG GTATCTC GGGGTT GC	AC_0 0017 3.1_1 5320	CGAAAGGUAUCUCGGGGUUGCA UUCAAGGUUCACCAGGGAGUCA GGCCUGGUCUCAUCUGGAAGCA AAGAACUCCACUCUCCUCUCGA G
AC_000173.1_15395>AC_00 0179.1_20793	AAAAGC CAGAAT GAACTT TTT	AC_0 0017 3.1_1 5395	AAAGUUCAUUUGGAUUUGUCCA UAAGAUACUUGGAAAAGCCAG AAUGAACUUUUU
AC_000173.1_15395*	AAAGTT CATTGG	AC_0 0017	AAAGUUCAUUUGGAUUUGUCCA UAAGAUACUUGGAAAAGCCAG

	ATTTGTC C	3.1_1 5395	AAUGAACUUUUU
AC_000173.1_15401*	AAAGTA ACAGCA TCTCCAC TGGA	AC_0 0017 3.1_1 5401	AAAGUAACAGCAUCUCCACUGG AAAUUGACGCACAGUCCACAUG GAGUUGCUGUUACAAUCG
AC_000173.1_15401	ACATGG AGTTGC TGTTACA ATCG	AC_0 0017 3.1_1 5401	AAAGUAACAGCAUCUCCACUGG AAAUUGACGCACAGUCCACAUG GAGUUGCUGUUACAAUCG
AC_000173.1_15414*	CCGGGG GGCGCA GGCCGG TAGG	AC_0 0017 3.1_1 5414	GGGCGGCGGCGGCGCCGGGGCA UCGCCGGGGCGGGAGCGGGAGC UCGGCCGCCCCGCAAGCCGACCC GGGGGGCGCAGGCCGGUAGG
AC_000173.1_15414	GGGCGG CGGCGG CGCCGG GGC	AC_0 0017 3.1_1 5414	GGGCGGCGGCGGCGCCGGGGCA UCGCCGGGGCGGGAGCGGGAGC UCGGCCGCCCCGCAAGCCGACCC GGGGGGCGCAGGCCGGUAGG
AC_000173.1_15604	AAGGGG ACCAGG GATACA GGCT	AC_0 0017 3.1_1 5604	AAGGGGACCAGGGAUACAGGCU CUCUAUUUGAUCCUCUGUUCUG AGAAUGGCAUCUCUGGACCCCU CA
AC_000173.1_15604*	GAATGG CATCTCT GGACCC CTCA	AC_0 0017 3.1_1 5604	AAGGGGACCAGGGAUACAGGCU CUCUAUUUGAUCCUCUGUUCUG AGAAUGGCAUCUCUGGACCCCU CA
AC_000173.1_15633	CGGCGG CAGAGT GAACGG	AC_0 0017 3.1_1	UCCCCUCCUCUCUCCGCUCCUC CGCCUGUUCCUCCGCCUCC AGGGCUUCGGCGGCGGCAGAGU

	GACG	5633	GAACGGGACG
AC_000173.1_15633*	TCCCCTC CTCTCTC CGCTCC C	AC_0 0017 3.1_1 5633	UCCCCUCCUCUCUCCGCUCCCUC CGCCCUGUUCCCUCCGCCCUCCC AGGGCUUCGGCGGCGGCAGAGU GAACGGGACG
AC_000173.1_15640	AAAAAT TTCGTTT GGGTTTT	AC_0 0017 3.1_1 5640	AAAAAUUCGUUCGGGUUUUCC AUGAACUGGGUGGACAACCCAA AUGAAUUUUUUCG
AC_000173.1_15640*	AACCCA AATGAAT TTTTTCG	AC_0 0017 3.1_1 5640	AAAAAUUCGUUCGGGUUUUCC AUGAACUGGGUGGACAACCCAA AUGAAUUUUUUCG
AC_000173.1_15666	AAAAGT TCGTTTG GGTTTTT	AC_0 0017 3.1_1 5666	AAAAGUUCGUUUGGGUUUUUCU GUAAGAUGGUUUGGAAAAAUCC AAAUGAACUUUCUG
AC_000173.1_15666*	AAATCC AAATGA ACTTTCT G	AC_0 0017 3.1_1 5666	AAAAGUUCGUUUGGGUUUUUCU GUAAGAUGGUUUGGAAAAAUCC AAAUGAACUUUCUG
AC_000173.1_15670	GCGGAG GAGGAG AGAAGC GCAGT	AC_0 0017 3.1_1 5670	GCGGAGGAGGAGAGAAGCGCAG UGCCGCGCCGCGCCGGGGCCCAU GUGGGGAGGAGUCGGAGUCGCU GUUGCCGCCGCCGCCG
AC_000173.1_15670*	TCGCTGT TGCCGC CGCCGC CG	AC_0 0017 3.1_1 5670	GCGGAGGAGGAGAGAAGCGCAG UGCCGCGCCGCGCCGGGGCCCAU GUGGGGAGGAGUCGGAGUCGCU GUUGCCGCCGCCGCCG

AC_000173.1_15673	AAAGCT GGGTTG AGAGGA AA	AC_0 0017 3.1_1 5673	CUGUCUGAGCGUCAGGGAAAGU UCCUGAGAGGAGAAAGCUGGG UUGAGAGGAAA
AC_000173.1_15673*	CTGTCTG AGCGTC AGGGAA AGTTT	AC_0 0017 3.1_1 5673	CUGUCUGAGCGUCAGGGAAAGU UCCUGAGAGGAGAAAGCUGGG UUGAGAGGAAA
AC_000173.1_15686*	AAAAAC CCAATG AACTTTT T	AC_0 0017 3.1_1 5686	AAAAGUUUGUUAGGAUUUCUG UAACAUGUUAUGGAAAAACCCA AUGAACUUUUU
AC_000173.1_15686	AAAAGT TTGTTAG GATTTTC	AC_0 0017 3.1_1 5686	AAAAGUUUGUUAGGAUUUCUG UAACAUGUUAUGGAAAAACCCA AUGAACUUUUU
AC_000173.1_15716*	AGGGTC TGTCTCT GCCACT GC	AC_0 0017 3.1_1 5716	UCAGUGGCAGAGUGCAGGGACC UCGCGACCAGAGAGGAGGGUCU GUCUCUGCCACUGC
AC_000173.1_15716	TCAGTG GCAGAG TGCAGG GACCTC	AC_0 0017 3.1_1 5716	UCAGUGGCAGAGUGCAGGGACC UCGCGACCAGAGAGGAGGGUCU GUCUCUGCCACUGC
AC_000173.1_15830*	AGATCC CAGACA CCGCAC CCAA	AC_0 0017 3.1_1 5830	AGAUCCAGACACCGCACCCAAU CCCAGGCUGGGGGUGGGGGCG GGGGGAGGUCUUU
AC_000173.1_15830	GGGGGC	AC_0	AGAUCCAGACACCGCACCCAAU

	GGGGGG AGGTCT TT	0017 3.1_1 5830	CCCAGGCUGGGGGGUGGGGGCG GGGGGAGGUCUUU
AC_000173.1_15858	AAAAAA CCGAGT GGACTT TTT	AC_0 0017 3.1_1 5858	AAAAGUUCAUUAGGGUUUUUCU GUGAGAUGGGAUGGAAAAAACC GAGUGGACUUUUU
AC_000173.1_15858*	AAAAGT TCATTAG GGTTTTT C	AC_0 0017 3.1_1 5858	AAAAGUUCAUUAGGGUUUUUCU GUGAGAUGGGAUGGAAAAAACC GAGUGGACUUUUU
AC_000173.1_15875	CGGGGT GGCGGG GGGGCA GGGCG	AC_0 0017 3.1_1 5875	CGGGGUGGCGGGGGGGCAGGGC GUGGUGAAGUAAGGUGAAUGCC CGAGCGGGCUUCCCGGAGCCAU GGCCUGCUCCAUUGUCCAGUUC UGCU
AC_000173.1_15875*	GCCTGC TCCATTG TCCAGTT CTGCT	AC_0 0017 3.1_1 5875	CGGGGUGGCGGGGGGGCAGGGC GUGGUGAAGUAAGGUGAAUGCC CGAGCGGGCUUCCCGGAGCCAU GGCCUGCUCCAUUGUCCAGUUC UGCU
AC_000173.1_15920	AAAACT CGAACG AATTTTT GGCC	AC_0 0017 3.1_1 5920	CCAGAAAAUUCGUUCGGCUUUC CAUAACAUCUUACGGGAAAACU CGAACGAAUUUUUGGCC
AC_000173.1_15920*	CCAGAA AATTCGT TCGGCTT T	AC_0 0017 3.1_1 5920	CCAGAAAAUUCGUUCGGCUUUC CAUAACAUCUUACGGGAAAACU CGAACGAAUUUUUGGCC

AC_000173.1_15923	CTCTGG GGAGAG GGTCGT TGT	AC_0 0017 3.1_1 5923	CUCUGGGGAGAGGGUCGUUGUC UCUGUGCGGCGGUCCCCCACC UGC GGACGGGAAGCCGGUGGGA GAGGACGAUGGCCGGAGGG
AC_000173.1_15923*	GACGAT GGCCGG AGGG	AC_0 0017 3.1_1 5923	CUCUGGGGAGAGGGUCGUUGUC UCUGUGCGGCGGUCCCCCACC UGC GGACGGGAAGCCGGUGGGA GAGGACGAUGGCCGGAGGG
AC_000173.1_15947	AAAAGC TCGTTCG GGTTTTT CT	AC_0 0017 3.1_1 5947	AAAAGCUCGUUCGGGUUUUUCU AUAGACGCUUAUGGGAAAACCU GAAAGAACUUCUUGGC
AC_000173.1_15947*	AAACCT GAAAGA ACTTCTT GGC	AC_0 0017 3.1_1 5947	AAAAGCUCGUUCGGGUUUUUCU AUAGACGCUUAUGGGAAAACCU GAAAGAACUUCUUGGC
AC_000173.1_15950	CCACGG GCTGGG GGGCAG GTCT	AC_0 0017 3.1_1 5950	GCCUGCUCUCCAGUCCAGGAC UGGAUAACAGACCACCCAGAAC UGCCCACGGGCUGGGGGGCAGG UCU
AC_000173.1_15950*	GCCTGC TCTTCCA GTCCCA GGAC	AC_0 0017 3.1_1 5950	GCCUGCUCUCCAGUCCAGGAC UGGAUAACAGACCACCCAGAAC UGCCCACGGGCUGGGGGGCAGG UCU
AC_000173.1_15956	AGAGGA CAGGGG GCAAGG GGAGC	AC_0 0017 3.1_1 5956	AUCUGUAGUCUGCACCACCUCU UGAGAUGGACAAGAGGACAGGG GGCAAGGGGAGC
AC_000173.1_15956*	ATCTGTA	AC_0	AUCUGUAGUCUGCACCACCUCU

	GTCTGC ACCACC TCTTG	0017 3.1_1 5956	UGAGAUGGACAAGAGGACAGGG GGCAAGGGGAGC
AC_000173.1_15959*	CAGCTC TGAGAC GGCCAG TGAG	AC_0 0017 3.1_1 5959	GCAGGGUUGUGGGGGACGUUCC AGGUCCUGGGCACCCCGGGAGG CUGGACAGCUCUGAGACGGCCA GUGAG
AC_000173.1_15959	GCAGGG TTGTGG GGGACG TTC	AC_0 0017 3.1_1 5959	GCAGGGUUGUGGGGGACGUUCC AGGUCCUGGGCACCCCGGGAGG CUGGACAGCUCUGAGACGGCCA GUGAG
AC_000173.1_15979*	CCTCTCC TACCCCC AACCCC TATGAC	AC_0 0017 3.1_1 5979	CUGGGGCUGGGGGACGGGAUGG CUUCCCCUCUCCUACCCCAACC CCUAUGAC
AC_000173.1_15979	CTGGGG CTGGGG GACGGG ATGGC	AC_0 0017 3.1_1 5979	CUGGGGCUGGGGGACGGGAUGG CUUCCCCUCUCCUACCCCAACC CCUAUGAC
AC_000173.1_15988	AGCACC TGCTGT GTCCCC CACAG	AC_0 0017 3.1_1 5988	CUGUGGGGGGCGUGCAGGGGCC GGGAAGCUGUCAAGGACCCAG CACCUGCUGUGUCCCCACAG
AC_000173.1_15988*	CTGTGG GGGGCG TGCAGG GGCCGG G	AC_0 0017 3.1_1 5988	CUGUGGGGGGCGUGCAGGGGCC GGGAAGCUGUCAAGGACCCAG CACCUGCUGUGUCCCCACAG
AC_000173.1_16032*	CCTCCCC	AC_0	CCUCCCCUGCCCAACCCUCAGA

	TGCCCC AACCCCT CAGACC C	0017 3.1_1 6032	CCCACCUCAAAGGAACGUGGCG GUGAGGUCGGGCAGAAGAGGGA
AC_000173.1_16032>AC_00 0165.1_8952	CGGTGA GGTCGG GCAGAA GAGGGA	AC_0 0017 3.1_1 6032	CCUCCCCUGCCCCAACCCUCAGA CCCACCUCAAAGGAACGUGGCG GUGAGGUCGGGCAGAAGAGGGA
AC_000173.1_16038*	CCAGCC TGCTCTT CTGTCCT	AC_0 0017 3.1_1 6038	CCAGCCUGCUCUUCUGUCCUGG GCUACUUGCACUAGGAGGAGGG GCGCGCUGUGC
AC_000173.1_16038	GAGGAG GGGCGC GCTGTG C	AC_0 0017 3.1_1 6038	CCAGCCUGCUCUUCUGUCCUGG GCUACUUGCACUAGGAGGAGGG GCGCGCUGUGC
AC_000173.1_16040*	CCCAGC CTGCTCT TCTGTCC T	AC_0 0017 3.1_1 6040	CCCAGCCUGCUCUUCUGUCCUGG GCUACUUGCACUAGGAGGAGGG GCGCGCUGUGCU
AC_000173.1_16040	GAGGAG GGGCGC GCTGTG CT	AC_0 0017 3.1_1 6040	CCCAGCCUGCUCUUCUGUCCUGG GCUACUUGCACUAGGAGGAGGG GCGCGCUGUGCU
AC_000173.1_16053	AAAACG TTCGTTC AGGTTTT A	AC_0 0017 3.1_1 6053	AAAACGUUCGUUCAGGUUUUAA AAAGCCAAAUGAACAUUUUGG
AC_000173.1_16053*	AAGCCA	AC_0	AAAACGUUCGUUCAGGUUUUAA



	AATGAA CATTTTG G	0017 3.1_1 6053	AAAGCCAAAUGAACAUUUUGG
AC_000173.1_16083	CTCGGG GCTGTG GAAGGG GCGGA	AC_0 0017 3.1_1 6083	CUCGGGGCUGUGGAAGGGGCGG AGCCUGCACCCGAGCAUCUGA GCCCCAGUG
AC_000173.1_16083*	TGCACC CGAGCA TCTGAG CCCCAG TG	AC_0 0017 3.1_1 6083	CUCGGGGCUGUGGAAGGGGCGG AGCCUGCACCCGAGCAUCUGA GCCCCAGUG
AC_000173.1_16089	GAGGCT GCGGTA GTACTA	AC_0 0017 3.1_1 6089	GAGGCUGCGGUAGUACUACGCG GCUCGCGUUGUCUCUUCGAAGC CUCCC
AC_000173.1_16089*	GTCTCTT CGAAGC CTCCC	AC_0 0017 3.1_1 6089	GAGGCUGCGGUAGUACUACGCG GCUCGCGUUGUCUCUUCGAAGC CUCCC
AC_000174.1_16244*	AAACCC AAGCAA ACGTTTT TGG	AC_0 0017 4.1_1 6244	AAUAAGUUCGUUUGGGUUUUUC CAUAAGAUGCAGCAGGAAAAAC CCAAGCAAACGUUUUUGG
AC_000170.1_13547>AC_00 0174.1_16244>AC_000165.1 _8867>AC_000181.1_22697	AATAAG TTCGTTT GGGTTTT T	AC_0 0017 4.1_1 6244	AAUAAGUUCGUUUGGGUUUUUC CAUAAGAUGCAGCAGGAAAAAC CCAAGCAAACGUUUUUGG
AC_000174.1_16265	GATGGA	AC_0	GCCAGCAGUCCCUGCCUCCAGGC

	GGAGGG TCCTGCT GGCAA	0017 4.1_1 6265	CUUCACCUCGAGAGAGGAUGGA GGAGGGUCCUGCUGGCAA
AC_000174.1_16265*	GCCAGC AGTCCC TGCCTCC AGGCCT	AC_0 0017 4.1_1 6265	GCCAGCAGUCCCUGCCUCCAGGC CUUCACCUCGAGAGAGGAUGGA GGAGGGUCCUGCUGGCAA
AC_000174.1_16342	AAAAAG TTCGTT ATGTTTT	AC_0 0017 4.1_1 6342	AAAAAGUUCGUUCAUGUUUCC AUUAAAUAUGGAAAUCCAAAC AAACUUUUUG
AC_000174.1_16342*	AATCCA AACAAA CTTTTTG	AC_0 0017 4.1_1 6342	AAAAAGUUCGUUCAUGUUUCC AUUAAAUAUGGAAAUCCAAAC AAACUUUUUG
AC_000174.1_16350*	AGTCCTT GGTGTC GTAGAT GTC	AC_0 0017 4.1_1 6350	CGAGCGGGGCUGGGGGACGGAC ACGAUGGCCUCGUCCAGGGAGG UGGCUGUCAGGGUGAAGUCCUU GGUGUCGUAGAUGUC
AC_000174.1_16350	CGAGCG GGGCTG GGGGAC GGA	AC_0 0017 4.1_1 6350	CGAGCGGGGCUGGGGGACGGAC ACGAUGGCCUCGUCCAGGGAGG UGGCUGUCAGGGUGAAGUCCUU GGUGUCGUAGAUGUC
AC_000174.1_16494*	GCCGGC GCCCGC AGAGCC CTCTC	AC_0 0017 4.1_1 6494	GCGGGCGCGGGGCGGGCUGCCG GGAUUCAGGAAGCGCCGCGCUC CCGGCCGCCGGCGCCCGCAGAGC CCUCUC
AC_000174.1_16494	GCGGGC GCGGGG	AC_0 0017	GCGGGCGCGGGGCGGGCUGCCG GGAUUCAGGAAGCGCCGCGCUC

	CGGGCT G	4.1_1 6494	CCGGCCGCCGGCGCCCGCAGAGC CCUCUC
AC_000174.1_16559*	CGAGCC GGGGCG GGGGCG CCG	AC_0 0017 4.1_1 6559	CGAGCCGGGGCGGGGGCGCCGG AGCGGAGGAAACAAAAGGCUAA GGCGGCGGGCGGCGCCGGGGCGC G
AC_000174.1_16559>AC_00 0174.1_16560	GCGGCG GCGGCG CCGGGG CGCG	AC_0 0017 4.1_1 6559	CGAGCCGGGGCGGGGGCGCCGG AGCGGAGGAAACAAAAGGCUAA GGCGGCGGGCGGCGCCGGGGCGC G
AC_000174.1_16560*	GATCCC GGAGCC TGGCGG GCG	AC_0 0017 4.1_1 6560	GCGGCGGGCGGCGCCGGGGCGCG CACCAGGGCGGCAGCGCGGGCC GGAUCCCGGAGCCUGGCGGGCG
AC_000174.1_16559>AC_00 0174.1_16560	GCGGCG GCGGCG CCGGGG CGCG	AC_0 0017 4.1_1 6560	GCGGCGGGCGGCGCCGGGGCGCG CACCAGGGCGGCAGCGCGGGCC GGAUCCCGGAGCCUGGCGGGCG
AC_000174.1_16574*	GGCGCG CGGCCT CGGCGG CACC	AC_0 0017 4.1_1 6574	UGCUGACCGAGCGCCUGCGCAU UAGCCCGGACAGGUGCGUGGGC GCCGGUGGGCGGGGGCGCGCG GCCUCGGCGGCACC
AC_000174.1_16574	TGCTGA CCGAGC GCCTGC GCATT	AC_0 0017 4.1_1 6574	UGCUGACCGAGCGCCUGCGCAU UAGCCCGGACAGGUGCGUGGGC GCCGGUGGGCGGGGGCGCGCG GCCUCGGCGGCACC
AC_000174.1_16599*	CTCTCCT GGCTTCT GGGAGT	AC_0 0017 4.1_1	UUCCUCCGGAGGCUCUGAGGG AGUUCCUCUUCACGCUUCUCU CCUGGCUUCUGGGAGUCACC

	CACC	6599	
AC_000174.1_16599	TTCCTTC CGGAGG CTCTGA GGGA	AC_0 0017 4.1_1 6599	UCCUCCGGAGGCUCUGAGGG AGUUCCUCUUCACGCUUCUCU CCUGGCUUCUGGGAGUCACC
AC_000174.1_16629	ATGAGG GATCTTT AGTTGT GGTAT	AC_0 0017 4.1_1 6629	AUGAGGGAUCUUUAGUUGUGGU AUGCGAACUCCUAGUUGAGGCA UGUGGGAUCUAGUUCCCUGACC A
AC_000174.1_16629*	GTGGGA TCTAGTT CCCTGA CCA	AC_0 0017 4.1_1 6629	AUGAGGGAUCUUUAGUUGUGGU AUGCGAACUCCUAGUUGAGGCA UGUGGGAUCUAGUUCCCUGACC A
AC_000174.1_16671	AAAAGA TTTGTTT GGGTTTT T	AC_0 0017 4.1_1 6671	AAAAGAUUUGUUUGGGUUUUUC CAUAACAUGUUACAGAAAAACC AGAUGAAUUGUUUGG
AC_000174.1_16671*	AAACCA GATGAAT TGTTTGG	AC_0 0017 4.1_1 6671	AAAAGAUUUGUUUGGGUUUUUC CAUAACAUGUUACAGAAAAACC AGAUGAAUUGUUUGG
AC_000174.1_16673	CGGCTC CGTGAC TCGTCC GTGGAC G	AC_0 0017 4.1_1 6673	CGGCUCGUGACUCGUCCGUGG ACGCCGGUUCGAGCCCCGUCCG GGCGCCGCGGAGCCUCA
AC_000174.1_16673*	TCCCGG GCGCCG CGGAGC	AC_0 0017 4.1_1	CGGCUCGUGACUCGUCCGUGG ACGCCGGUUCGAGCCCCGUCCG GGCGCCGCGGAGCCUCA

	CTCA	6673	
AC_000174.1_16743*	CAGCTG ACCACA GACTGT GCA	AC_0 0017 4.1_1 6743	UGCAGCUGAUCACAGACUGUGC ACGAGACCCCAGGCUGUGUGCA GCUGACCACAGACUGUGCA
AC_000174.1_16743>AC_00 0174.1_16744	TGCAGC TGATCAC AGACTG TG	AC_0 0017 4.1_1 6743	UGCAGCUGAUCACAGACUGUGC ACGAGACCCCAGGCUGUGUGCA GCUGACCACAGACUGUGCA
AC_000174.1_16744*	CAGGCT GTGTGC AGCTGA CC	AC_0 0017 4.1_1 6744	CAGGCUGUGUGCAGCUGACCCC UGACUGUGUGCACAAGACCCCA GGCUGUGUGCAGCUGAUCACAG ACUGUG
AC_000174.1_16743>AC_00 0174.1_16744	TGCAGC TGATCAC AGACTG TG	AC_0 0017 4.1_1 6744	CAGGCUGUGUGCAGCUGACCCC UGACUGUGUGCACAAGACCCCA GGCUGUGUGCAGCUGAUCACAG ACUGUG
AC_000174.1_16800	AAGACC TGAATG AACTTTT TGGC	AC_0 0017 4.1_1 6800	CAAAAAAUUUGUUUGGGUUUUU CCGUAGAUGUUACAGAAAGACC UGAAUGAACUUUUUGGC
AC_000174.1_16800*	CAAAAA ATTTGTT TGGGTTT TT	AC_0 0017 4.1_1 6800	CAAAAAAUUUGUUUGGGUUUUU CCGUAGAUGUUACAGAAAGACC UGAAUGAACUUUUUGGC
AC_000174.1_16867	AAAAAG TTCATTA GGATTC	AC_0 0017 4.1_1 6867	AAAAAGUUCAUUAGGAUUCUUC CGUAACUUCUUAUGGAAAACCC UGAAUGUUUCA

AC_000174.1_16867*	ACCCTG AATGTTT CA	AC_0 0017 4.1_1 6867	AAAAAGUUCAUUAGGAUUCUUC CGUAACUUCUUAUGGAAAACCC UGAAUGUUUCA
AC_000174.1_16885	CAGCTG GGGACG TTGGAC ACC	AC_0 0017 4.1_1 6885	CAGCUGGGGACGUUGGACACCA GUGGCUCCUGAUGCAGAGCCAG UUCCUGGGUUGGGGGCAGGGUC UCCUGCUGAG
AC_000174.1_16885*	GGTTGG GGGCAG GGTCTC CTGCTG AG	AC_0 0017 4.1_1 6885	CAGCUGGGGACGUUGGACACCA GUGGCUCCUGAUGCAGAGCCAG UUCCUGGGUUGGGGGCAGGGUC UCCUGCUGAG
AC_000174.1_16901*	AACCCA AACAAA ATCTTTG G	AC_0 0017 4.1_1 6901	AGAGAGUUUGUUUGGGUUUUGC AUAAGGUGCUAUGGAAAACCC AAACAAAUCUUUGG
AC_000174.1_16901	AGAGAG TTTGTTT GGGTTTT	AC_0 0017 4.1_1 6901	AGAGAGUUUGUUUGGGUUUUGC AUAAGGUGCUAUGGAAAACCC AAACAAAUCUUUGG
AC_000175.1_16954	AGGGAG GCGGCG GGAGGG	AC_0 0017 5.1_1 6954	AGGGAGGCGGCGGGAGGGCGCG GGUGAUGCGGCGCUGGAGGCGG CCCGGCGCCAGCCGCUGACCGC CCCCUCC
AC_000175.1_16954*	CAGCCG CTGACC GCCCC TCC	AC_0 0017 5.1_1 6954	AGGGAGGCGGCGGGAGGGCGCG GGUGAUGCGGCGCUGGAGGCGG CCCGGCGCCAGCCGCUGACCGC CCCCUCC

AC_000175.1_16958>AC_00 0175.1_16957	CGGGGC AGGGAG GTGGAG GG	AC_0 0017 5.1_1 6957	CUCAGCAGCUUCACUGAGUUGG GGGGCCAGCCGAGGGUCCCAGG ACGCGGGGCAGGGAGGUGGAGG G
AC_000175.1_16957*	CTCAGC AGCTTC ACTGAG	AC_0 0017 5.1_1 6957	CUCAGCAGCUUCACUGAGUUGG GGGGCCAGCCGAGGGUCCCAGG ACGCGGGGCAGGGAGGUGGAGG G
AC_000175.1_16958>AC_00 0175.1_16957	CGGGGC AGGGAG GTGGAG GG	AC_0 0017 5.1_1 6958	CGGGGCAGGGAGGUGGAGGGCG GCUGGGGCAGAGGGUACAGCUG GGCGGCCUCACACUGUGCCGAG
AC_000175.1_16958*	GGCGGC CTCACA CTGTGC CGAG	AC_0 0017 5.1_1 6958	CGGGGCAGGGAGGUGGAGGGCG GCUGGGGCAGAGGGUACAGCUG GGCGGCCUCACACUGUGCCGAG
AC_000175.1_17039	TCCGCC ACCTAC CAGCCC CAGA	AC_0 0017 5.1_1 7039	UGGGGCUGCUGGGCCCAGGCAG AGGUUCCUCACAUGUCCGCCACC UACCAGCCCCAGA
AC_000175.1_17039*	TGGGGC TGCTGG GCCCAG GCAGAG G	AC_0 0017 5.1_1 7039	UGGGGCUGCUGGGCCCAGGCAG AGGUUCCUCACAUGUCCGCCACC UACCAGCCCCAGA
AC_000175.1_17044*	AGGGGC GGAGTG GAGCA	AC_0 0017 5.1_1 7044	AUCCACCUCUGCCACCAAGUAG CCGUGGGAUGCGGUUCCCACU GGGAGGGGCGGAGUGGAGCA

AC_000175.1_17044	ATCCCAC CTCTGCC ACCAAG	AC_0 0017 5.1_1 7044	AUCCACCUCUGCCACCAAGUAG CCGUGGGAUGCGGUUCCACU GGGAGGGGCGGAGUGGAGCA
AC_000175.1_17191>AC_00 0181.1_22483*	AAAAGT TCATTTG AGTTTT	AC_0 0017 5.1_1 7191	AAAAGUUCAUUUGAGUUUUUUG UAAGAUGUUAUUGAAAAUUCG AAUGGACUUUUUGGCC
AC_000175.1_17191*	AAATTC GAATGG ACTTTTT GGCC	AC_0 0017 5.1_1 7191	AAAAGUUCAUUUGAGUUUUUUG UAAGAUGUUAUUGAAAAUUCG AAUGGACUUUUUGGCC
AC_000175.1_17226*	AAAGCT GAACGA ACTTTCT GG	AC_0 0017 5.1_1 7226	AGAAAGUUAGUUUGGAUUUUUC CAUAAGAAGCUACAGAAAAAGC UGAACGAACUUUCUGG
AC_000175.1_17226	AGAAAG TTAGTTT GGATTTT T	AC_0 0017 5.1_1 7226	AGAAAGUUAGUUUGGAUUUUUC CAUAAGAAGCUACAGAAAAAGC UGAACGAACUUUCUGG
AC_000187.1_27081>AC_00 0175.1_17247	AAAAAG TTCGTTT GGGTTTT	AC_0 0017 5.1_1 7247	AAAAAGUUCGUUUGGGUUUUUC CAUGCCAUCCUCAGGAAACCCU GAACGAACUUUCAG
AC_000175.1_17247*	ACCCTG AACGAA CTTTTCA G	AC_0 0017 5.1_1 7247	AAAAAGUUCGUUUGGGUUUUUC CAUGCCAUCCUCAGGAAACCCU GAACGAACUUUCAG
AC_000175.1_17298	ACTGGG	AC_0	ACUGGGAGUGGAAGGAGAGCCC



	AGTGGA AGGAGA GCCCAG	0017 5.1_1 7298	AGAGGUUUC CAGGGACUGGUCC UGACCUCUCCCUUCCCUCCCCAC AG
AC_000175.1_17298*	GACCTC TCCCTTC CCTCCCC ACAG	AC_0 0017 5.1_1 7298	ACUGGGAGUGGAAGGAGAGCCC AGAGGUUUC CAGGGACUGGUCC UGACCUCUCCCUUCCCUCCCCAC AG
AC_000175.1_17308*	GCGATCT CCTCCTG CCCCTC A	AC_0 0017 5.1_1 7308	UGGGGACAGAGAGGAGGAAGCA GGCGCCUGAAUCUGCGAUCUCC UCCUGCCCCUCA
AC_000175.1_17308	TGGGGA CAGAGA GGAGGA AGCAG	AC_0 0017 5.1_1 7308	UGGGGACAGAGAGGAGGAAGCA GGCGCCUGAAUCUGCGAUCUCC UCCUGCCCCUCA
AC_000175.1_17351*	GGGGCC GGCTGG CGGTTG CCGGGA GC	AC_0 0017 5.1_1 7351	GGGGCCGGCUGGCGGUUGCCGG GAGCGGGACCAGAGCUCAGGCA GCUAGAGCCGGCGCCA U
AC_000175.1_17351	TCAGGC AGCTAG AGCCGG CGCCAT	AC_0 0017 5.1_1 7351	GGGGCCGGCUGGCGGUUGCCGG GAGCGGGACCAGAGCUCAGGCA GCUAGAGCCGGCGCCA U
AC_000175.1_17358*	AAAACC TGAAGG AACTTC ACC	AC_0 0017 5.1_1 7358	AAACGUUCGUUCGGGUUUCUCC AGAACAGCUUACGGAAAAACCU GAAGGAACUUCACC
AC_000175.1_17358	AAACGT	AC_0	AAACGUUCGUUCGGGUUUCUCC

	TCGTTTCG GGTTTCT C	0017 5.1_1 7358	AGAACAGCUUACGGAAAAACCU GAAGGAACUUCACC
AC_000175.1_17370	AGAAGC TTTGGA CAGGGC TCT	AC_0 0017 5.1_1 7370	AGAAGCUUUGGACAGGGCUCUA GGGACUCUUGUCUCUUCUCGUC UUUCCAUCAGUGGCUCUGC
AC_000175.1_17370*	CGTCTTT TCCATCC AGTGGC TCCTGC	AC_0 0017 5.1_1 7370	AGAAGCUUUGGACAGGGCUCUA GGGACUCUUGUCUCUUCUCGUC UUUCCAUCAGUGGCUCUGC
AC_000175.1_17499	AAAAAG CTCGTTC AGGTTTT T	AC_0 0017 5.1_1 7499	AAAAAGCUCGUUCAGGUUUUUC CAUAAGAAAAAUCCAAACGGA CGUUUUGG
AC_000175.1_17499*	AAATTCC AAACGG ACGTTTT GG	AC_0 0017 5.1_1 7499	AAAAAGCUCGUUCAGGUUUUUC CAUAAGAAAAAUCCAAACGGA CGUUUUGG
AC_000175.1_17506	GAGGGA GGAAGA GCGCGA	AC_0 0017 5.1_1 7506	GGCUGCACCUCUGUCUUGCACU UUGCACGGAGGGAGGAAGAGCG CGA
AC_000175.1_17506*	GGCTGC ACCTCT GTCTT	AC_0 0017 5.1_1 7506	GGCUGCACCUCUGUCUUGCACU UUGCACGGAGGGAGGAAGAGCG CGA
AC_000175.1_17508*	CCCAGG CCCTGC	AC_0 0017	CCCAGGCCUGCCCGGCCUCGGA GCUGGGGUGCGCUGGGAACGUG

	CCGGCC TCGGA	5.1_1 7508	GACCCCGCCUCUCGGUGGGGCG GUGUGUGGGAU
AC_000175.1_17508	TCGGTG GGGCGG TGTGTG GGAT	AC_0 0017 5.1_1 7508	CCCAGGCCUGCCCGGCCUCGGA GCUGGGGUGCGCUGGGAACGUG GACCCCGCCUCUCGGUGGGGCG GUGUGUGGGAU
AC_000175.1_17533>AC_00 0175.1_17534	AAGACC AGGGGT GTGGCT C	AC_0 0017 5.1_1 7533	AAGACCAGGGGUGUGGCUCCCC AGCAUCUGUGAAGGCAGGCUGG GGGCCAGGCACCCUGGUUCUG C
AC_000175.1_17533*	CCCAGG CACCTT GGTTCT GC	AC_0 0017 5.1_1 7533	AAGACCAGGGGUGUGGCUCCCC AGCAUCUGUGAAGGCAGGCUGG GGGCCAGGCACCCUGGUUCUG C
AC_000175.1_17533>AC_00 0175.1_17534	AAGACC AGGGGT GTGGCT C	AC_0 0017 5.1_1 7534	ACUGUCACCCCUGAGCUCUUU AUACGGAAAGACCAGGGGUGUG GCUC
AC_000175.1_17534*	ACTGTC ACCCCT GAGCTC CC	AC_0 0017 5.1_1 7534	ACUGUCACCCCUGAGCUCUUU AUACGGAAAGACCAGGGGUGUG GCUC
AC_000175.1_17538	ACCGGA GCTGGA GCGGCC CAT	AC_0 0017 5.1_1 7538	UGGCAUGCUCUGGCUUCGCUAC CAGAAACCGGAGCUGGAGCGGC CCAU
AC_000175.1_17538*	TGGCAT GCTCTG GCTTCG	AC_0 0017 5.1_1	UGGCAUGCUCUGGCUUCGCUAC CAGAAACCGGAGCUGGAGCGGC CCAU

	CTAC	7538	
AC_000175.1_17573*	AAACTG GGATGA ATTTTTT CG	AC_0 0017 5.1_1 7573	AGAAAGUUCGUUCGGGUUUUA UACACUGUUACUGAAAAACUGG GAUGAAUUUUUUCG
AC_000175.1_17573	AGAAAG TTCGTC GGGTTTT T	AC_0 0017 5.1_1 7573	AGAAAGUUCGUUCGGGUUUUA UACACUGUUACUGAAAAACUGG GAUGAAUUUUUUCG
AC_000175.1_17579*	AAACCC AAACAG ACTTGTT GGT	AC_0 0017 5.1_1 7579	CAACAAGUUUGUUUGGGUUUUU CCAUAACACCUUACAGGAAAAC CCAAACAGACUUGUUGGU
AC_000180.1_21742>AC_00 0175.1_17579	CAACAA GTTTGTT TGGGTTT TT	AC_0 0017 5.1_1 7579	CAACAAGUUUGUUUGGGUUUUU CCAUAACACCUUACAGGAAAAC CCAAACAGACUUGUUGGU
AC_000175.1_17582	TGGATTG ATAGAG GGGGAC GGA	AC_0 0017 5.1_1 7582	UGUCCCUCUUUAAAACAGUCAU UGUGGCUGCCUGGUCCUUAUUC CCUGUUGAGUGUCACAUGGAUU GAUAGAGGGGGACGGA
AC_000175.1_17582*	TGTCCCT CTTTAAA ACAGTC ATTG	AC_0 0017 5.1_1 7582	UGUCCCUCUUUAAAACAGUCAU UGUGGCUGCCUGGUCCUUAUUC CCUGUUGAGUGUCACAUGGAUU GAUAGAGGGGGACGGA
AC_000175.1_17668*	GCACAA GATAAG CCCAGC	AC_0 0017 5.1_1 7668	GCACAAGAUAAAGCCCAGCCAUU AAAUCCAGGACUCCUGUGUGC AUGAGGUGGUAGUUUGUGCGG

AC_000175.1_17668	TGAGGT GGTAGT TTGTGC GG	AC_0 0017 5.1_1 7668	GCACAAGAUAAAGCCCAGCCAUU AAAUCCAGGACUUCCUGUGUGC AUGAGGUGGUAGUUUGUGCGG
AC_000175.1_17734	AGTGGT TAGGATT CGTCT	AC_0 0017 5.1_1 7734	UCAAAAUCUGACCCUGGGGAGU UCCCUGAUGGCCUAGUGGUUAG GAUUCGUCU
AC_000175.1_17734*	TCAAAA TCTGAC CCTGG	AC_0 0017 5.1_1 7734	UCAAAAUCUGACCCUGGGGAGU UCCCUGAUGGCCUAGUGGUUAG GAUUCGUCU
AC_000175.1_17756	CAGGGA CTGGGG AGGGGG ATGTTT	AC_0 0017 5.1_1 7756	GCAUUUUGGGGCCUGGAUUUGU GGAAGGCAAUUUUUCCAGGGAC UGGGGAGGGGGAUGUUU
AC_000175.1_17756*	GCATTTT GGGGCC TGGATTT GTGGA	AC_0 0017 5.1_1 7756	GCAUUUUGGGGCCUGGAUUUGU GGAAGGCAAUUUUUCCAGGGAC UGGGGAGGGGGAUGUUU
AC_000175.1_17857*	CGCTCA GCCCCT GCTGCC CTC	AC_0 0017 5.1_1 7857	CGGGCAGCUGGGGGUUGGGCGG GGCCAGGCGCCCGCUCAGCCCCU GCUGCCCUC
AC_000175.1_17857	CGGGCA GCTGGG GGTTGG GCGGG	AC_0 0017 5.1_1 7857	CGGGCAGCUGGGGGUUGGGCGG GGCCAGGCGCCCGCUCAGCCCCU GCUGCCCUC
AC_000175.1_17867	AGGAAG	AC_0	AGGAAGAUGGCGGAGCUGCGCG

	ATGGCG GAGCTG	0017 5.1_1 7867	CGCUCGUGGCUGUCAAGAGGGU CAUCGACUUCGCAGUGAAGGUG ACCGGCUCCCCUCUCCUCU
AC_000175.1_17867*	GCTCCC CTCTCCT CT	AC_0 0017 5.1_1 7867	AGGAAGAUGGCGGAGCUGCGCG CGCUCGUGGCUGUCAAGAGGGU CAUCGACUUCGCAGUGAAGGUG ACCGGCUCCCCUCUCCUCU
AC_000175.1_17922*	GACTCT GAGGCT TGAGAC TAGC	AC_0 0017 5.1_1 7922	GACUCUGAGGCUUGAGACUAGC AAGAGAGGGAGGCCCAAUGCCC CCUCGCUGUCUCAGUUCAGCAG GAAG
AC_000175.1_17922	TGTCTCA GTTCAG CAGGAA G	AC_0 0017 5.1_1 7922	GACUCUGAGGCUUGAGACUAGC AAGAGAGGGAGGCCCAAUGCCC CCUCGCUGUCUCAGUUCAGCAG GAAG
AC_000176.1_18013*	AGAGCT GACAGT TTGGTT	AC_0 0017 6.1_1 8013	AGAGCUGACAGUUUGGUUCCUU GUAUCCUGUUAGCCACUUUGUU UUAGGAACCAGAUUGUCAGCUC UAA
AC_000176.1_18013	GAACCA GATTGTC AGCTCT AA	AC_0 0017 6.1_1 8013	AGAGCUGACAGUUUGGUUCCUU GUAUCCUGUUAGCCACUUUGUU UUAGGAACCAGAUUGUCAGCUC UAA
AC_000176.1_18062	CAATGA GGGGGA GGAGGG GAAG	AC_0 0017 6.1_1 8062	CAAUGAGGGGGAGGAGGGGAAG UGAACUGCUGGAGGGGCAGCCC CGUCCUUGUCUCGAGUG
AC_000176.1_18062*	GCCCCG TCCTTGT	AC_0 0017	CAAUGAGGGGGAGGAGGGGAAG UGAACUGCUGGAGGGGCAGCCC

	CTCGAG TG	6.1_1 8062	CGUCCUUGUCUCGAGUG
AC_000176.1_18264	CCCCGA GCCCGC CCGCCG GCG	AC_0 0017 6.1_1 8264	CCCCGAGCCCGCCCGCCGGCGUG CCCACGUCCAAAGGUAGGAACG CUCGGGCU
AC_000176.1_18264*	TCCAAA GGTAGG AACGCT CGGGCT	AC_0 0017 6.1_1 8264	CCCCGAGCCCGCCCGCCGGCGUG CCCACGUCCAAAGGUAGGAACG CUCGGGCU
AC_000176.1_18291	AAGGGG CGGTGG CGGGTG GAGAAG G	AC_0 0017 6.1_1 8291	GUCCCCACCAACCCAGGGCUGUU CCUUCCUCUCAGCUGCAGAGCCU GGAGCAGGAGAAGGGGCGGUGG CGGGUGGAGAAGG
AC_000176.1_18291*	GTCCCC ACCAAC CCAGGG CTGTTCC TTCC	AC_0 0017 6.1_1 8291	GUCCCCACCAACCCAGGGCUGUU CCUUCCUCUCAGCUGCAGAGCCU GGAGCAGGAGAAGGGGCGGUGG CGGGUGGAGAAGG
AC_000176.1_18304	AAATGG AAGTAG TAGGATA GT	AC_0 0017 6.1_1 8304	AAAUGGAAGUAGUAGGAUAGUA UGC UAAUAAAAUUCUCUUGCUU CUUCCAUCAAC
AC_000176.1_18304*	TCTCTTG CTTCTTC CATCAA C	AC_0 0017 6.1_1 8304	AAAUGGAAGUAGUAGGAUAGUA UGC UAAUAAAAUUCUCUUGCUU CUUCCAUCAAC
AC_000176.1_18306*	CAAGCA	AC_0	UGGGGUGGGACGCUGUGUGGUG

	AGCAGT CTGACTT TGGG	0017 6.1_1 8306	GUGGCAGCGCUUCCAGGGCUGA GAAUGACCUUGCCAAGCAAGCA GUCUGACUUUGGG
AC_000176.1_18306	TGGGGT GGGACG CTGTGT GGT	AC_0 0017 6.1_1 8306	UGGGGUGGGACGCUGUGUGGUG GUGGCAGCGCUUCCAGGGCUGA GAAUGACCUUGCCAAGCAAGCA GUCUGACUUUGGG
AC_000176.1_18328	CTGGGC GGGAGG ATGCGG GTTA	AC_0 0017 6.1_1 8328	CUGGGCGGGAGGAUGCGGGUUA GCGAGCGAGCCUUGGAGGCGGG AGGGGGCUGCUGGCGCUGCACC UGUCCGCGCC
AC_000176.1_18328*	GCGCTG CACCTG TCCGCG CC	AC_0 0017 6.1_1 8328	CUGGGCGGGAGGAUGCGGGUUA GCGAGCGAGCCUUGGAGGCGGG AGGGGGCUGCUGGCGCUGCACC UGUCCGCGCC
AC_000176.1_18343*	CCCCCTT GTAGGG GCTCTTT G	AC_0 0017 6.1_1 8343	CCCCCUUGUAGGGGCUCUUUGG UAGGCGUGGGGCUGGGGGGGAG GGUG
AC_000176.1_18343	TGGGGC TGGGGG GGAGGG TG	AC_0 0017 6.1_1 8343	CCCCCUUGUAGGGGCUCUUUGG UAGGCGUGGGGCUGGGGGGGAG GGUG
AC_000176.1_18379*>AC_0 00176.1_18377*	GTGAAG CCCCTTT GTCCTAC CCCC	AC_0 0017 6.1_1 8377	GUGAAGCCCCUUGUCCUACCCC CGGAGCCCAUAGGGGUAGAGGA GAGGCUACCACCA
AC_000176.1_18379>AC_00 0176.1_18377	TAGAGG AGAGGC	AC_0 0017	GUGAAGCCCCUUGUCCUACCCC CGGAGCCCAUAGGGGUAGAGGA



	TACCAC CA	6.1_1 8377	GAGGCUACCACCA
AC_000176.1_18379*>AC_00176.1_18377*	GTGAAG CCCCTTT GTCCTAC CCCC	AC_0 0017 6.1_1 8379	GUGAAGCCCCUUGUCCUACCCC CGGAGCCCAUAGGGGUAGAGGA GAGGCUACCACCA
AC_000176.1_18379>AC_00176.1_18377	TAGAGG AGAGGC TACCAC CA	AC_0 0017 6.1_1 8379	GUGAAGCCCCUUGUCCUACCCC CGGAGCCCAUAGGGGUAGAGGA GAGGCUACCACCA
AC_000176.1_18392*	AAGGCC TTGTTTG CTGGAC C	AC_0 0017 6.1_1 8392	ACUGGUAAGGGGGCUUUGUCU GUUGCUGCCUCUGCAUACAAGG CCUUGUUUGCUGGACC
AC_000176.1_18392	ACTGGT AAAGGG GGCTTT GT	AC_0 0017 6.1_1 8392	ACUGGUAAGGGGGCUUUGUCU GUUGCUGCCUCUGCAUACAAGG CCUUGUUUGCUGGACC
AC_000172.1_15186*>AC_00176.1_18449*	GTCGAG GCTAGA GTCACG CTTGGG TAT	AC_0 0017 6.1_1 8449	GUCGAGGCUAGAGUCACGCUUG GGUAUCCACUGUUGCCUAGUG UGCUAGAGUCCUCGAA
AC_000176.1_18449	TAGTGT GCTAGA GTCCTC GAA	AC_0 0017 6.1_1 8449	GUCGAGGCUAGAGUCACGCUUG GGUAUCCACUGUUGCCUAGUG UGCUAGAGUCCUCGAA
AC_000176.1_18498	CCCGAG GAGCAG	AC_0 0017	CCCGAGGAGCAGACAGAGCAUG CCUUCAUAAAUGUCCUCACCCG

	ACAGAG CATG	6.1_1 8498	AGGGGACCUGUCUCCAUCCGC UGGGUCUGCUCUCCUCUGCGCC
AC_000176.1_18498*	CGCTGG GTCTGCT CTCCTCT GCGCC	AC_0 0017 6.1_1 8498	CCCGAGGAGCAGACAGAGCAUG CCUUCAUAAAUGUCCUCACCCG AGGGGACCUGUCUCCAUCCGC UGGGUCUGCUCUCCUCUGCGCC
AC_000176.1_18500*	CCCGCC TGCCCA CCTGTCC AGGCA	AC_0 0017 6.1_1 8500	UCUGCAGGGUGGUAGGCUGUGG GCUAUGUGGUGAGGCCCCCCCGC CUGCCCACCUGUCCAGGCA
AC_000176.1_18500	TCTGCA GGGTGG TAGGCT GTGG	AC_0 0017 6.1_1 8500	UCUGCAGGGUGGUAGGCUGUGG GCUAUGUGGUGAGGCCCCCCCGC CUGCCCACCUGUCCAGGCA
AC_000176.1_18547*	AGCCGC GGCCCG GGCTCA GTTGT	AC_0 0017 6.1_1 8547	AGCCGCGGCCCGGGCUCAGUUG UCUCAGCGAGCGCGAGCCGGGA GCUGGGGCGGG
AC_000176.1_18547	CGCGAG CCGGGA GCTGGG GCGGG	AC_0 0017 6.1_1 8547	AGCCGCGGCCCGGGCUCAGUUG UCUCAGCGAGCGCGAGCCGGGA GCUGGGGCGGG
AC_000176.1_18557	TCTGTGC TGGGGA CAAGAG C	AC_0 0017 6.1_1 8557	UUCUGCCCCUGGUGCUGCUGUG ACCUGUGAGCUGCCGUGGUCUG UGCUGGGGACAAGAGC
AC_000176.1_18557*	TTCTGCC CCTGGT GCTGCT	AC_0 0017 6.1_1	UUCUGCCCCUGGUGCUGCUGUG ACCUGUGAGCUGCCGUGGUCUG UGCUGGGGACAAGAGC

	GTGACC	8557	
AC_000176.1_18564	ACAGGA GAATGC AGGACA CACG	AC_0 0017 6.1_1 8564	ACAGGAGAAUGCAGGACACACG UAAAUGUCAGCACGUUCGUGAG CCCAGCGUUUCUUCUGAUU
AC_000176.1_18564*	TGAGCC CAGCGT TTCTTCT GATT	AC_0 0017 6.1_1 8564	ACAGGAGAAUGCAGGACACACG UAAAUGUCAGCACGUUCGUGAG CCCAGCGUUUCUUCUGAUU
AC_000176.1_18570	AGGGTG GGCCGG GCGGTG CT	AC_0 0017 6.1_1 8570	AGGGUGGGCCGGGCGGUGCUGG UGGGGGCCUGGGGCUCCCCGGG CCCCUCACAGCAGCCAGCCCUUG CCUGACCUUCC
AC_000176.1_18570*	CAGCCA GCCCTT GCCTGA CCTTCC	AC_0 0017 6.1_1 8570	AGGGUGGGCCGGGCGGUGCUGG UGGGGGCCUGGGGCUCCCCGGG CCCCUCACAGCAGCCAGCCCUUG CCUGACCUUCC
AC_000176.1_18575	TCCCA GAAGTG CCCCTG CAAA	AC_0 0017 6.1_1 8575	UGUUGGGGCUCUGCCUGGGGUC CAGCCAGGCUCUGGUCCCCAGA AGUGCCCCUGCAAA
AC_000176.1_18575*	TGTTGG GGCTCT GCCTGG GGTCC	AC_0 0017 6.1_1 8575	UGUUGGGGCUCUGCCUGGGGUC CAGCCAGGCUCUGGUCCCCAGA AGUGCCCCUGCAAA
AC_000176.1_18598*	TCACGG CCTCTCT GCCCC AGG	AC_0 0017 6.1_1 8598	UGGGGGUGGGGAGGGCGCGUGC CUGGGCCUGGCACCCCUCCUGC UCACGGCCUCUCUGCCCCCAGG

AC_000176.1_18598	TGGGGG TGGGGA GGGCGC GTGC	AC_0 0017 6.1_1 8598	UGGGGGUGGGGAGGGCGCGUGC CUGGGCCUGGCACCCCUCCCUGC UCACGGCCUCUCUGCCCCCAGG
AC_000176.1_18622	CAGTGG AGGGGT CGTGGG GTGTCC	AC_0 0017 6.1_1 8622	CAGUGGAGGGGUCGUGGGGUGU CCUAUAAUAAAGAAUCUGACUG GCCUUUGCCUCUGGC
AC_000176.1_18622*	GAATCT GACTGG CCTTTGC CTCTGG C	AC_0 0017 6.1_1 8622	CAGUGGAGGGGUCGUGGGGUGU CCUAUAAUAAAGAAUCUGACUG GCCUUUGCCUCUGGC
AC_000176.1_18665	CATCTGT CAGAGG AGTCAC TGT	AC_0 0017 6.1_1 8665	GGUGAAUCCUUGACAGGUUUC AGUUUAUUUUGCUGACAUCUGU CAGAGGAGUCACUGU
AC_000176.1_18665*	GGTGAA TCCTTGA CAGGTT TC	AC_0 0017 6.1_1 8665	GGUGAAUCCUUGACAGGUUUC AGUUUAUUUUGCUGACAUCUGU CAGAGGAGUCACUGU
AC_000176.1_18681*	TACATGT AGATCCT GCATTG AGAA	AC_0 0017 6.1_1 8681	UUCAAGUAAUAAAGGAUAGGAA AACCUACAUGUAGAUCUGCAU UGAGAA
AC_000176.1_18681	TTCAAG TAATAAA GGATAG G	AC_0 0017 6.1_1 8681	UUCAAGUAAUAAAGGAUAGGAA AACCUACAUGUAGAUCUGCAU UGAGAA

AC_000176.1_18762	CAATATA TGGGGA AGCGGT TAT	AC_0 0017 6.1_1 8762	UAACUGCUUCCCCAUUAUUGG GAUUCAUGGGGUCCCAAUAUUAU GGGGAAGCGGUUAU
AC_000176.1_18762*	TAACTG CTTCCCC ATATATT GG	AC_0 0017 6.1_1 8762	UAACUGCUUCCCCAUUAUUGG GAUUCAUGGGGUCCCAAUAUUAU GGGGAAGCGGUUAU
AC_000176.1_18785	AGGGTG TGGGTTT GGTCGT GGGAG	AC_0 0017 6.1_1 8785	AGGGUGUGGGUUUGGUCGUGGG AGCUUUAGCGUCCACGUGUGC UGCCCACUUCCUCC
AC_000176.1_18785*	CCCACG TGTGCT GCCAC TTCCTCC	AC_0 0017 6.1_1 8785	AGGGUGUGGGUUUGGUCGUGGG AGCUUUAGCGUCCACGUGUGC UGCCCACUUCCUCC
AC_000176.1_18789	ATGGGG TAAGGA TGGAGA GGA	AC_0 0017 6.1_1 8789	AUGGGGUAAGGAUGGAGAGGAC CUUUGAGCGCAACGAGAUACCU CUCCAUUCUCAUCCCCAGAG
AC_000176.1_18789*	CTCTCCA TTCTCAT CCCCAG AG	AC_0 0017 6.1_1 8789	AUGGGGUAAGGAUGGAGAGGAC CUUUGAGCGCAACGAGAUACCU CUCCAUUCUCAUCCCCAGAG
AC_000176.1_18799	ATGGGG CAGGTG GATGGA GTCC	AC_0 0017 6.1_1 8799	AUGGGGCAGGUGGAUGGAGUCC GAGUGGCAACCAGCUCUCCUCCC ACCCUGCCUCCUAGAU
AC_000176.1_18799*	TCTCCTC	AC_0	AUGGGGCAGGUGGAUGGAGUCC

	CCACCC TGCCTCC TAGAT	0017 6.1_1 8799	GAGUGGCAACCAGCUCUCCUCCC ACCCUGCCUCCUAGAU
AC_000176.1_18801	ACTGAG GACAGT GAAGGT GGAA	AC_0 0017 6.1_1 8801	ACUGAGGACAGUGAAGGUGGAA GAGACCCUCACUGUCCUCUGUG C
AC_000176.1_18801*	AGACCC TCACTGT CCTCTGT GC	AC_0 0017 6.1_1 8801	ACUGAGGACAGUGAAGGUGGAA GAGACCCUCACUGUCCUCUGUG C
AC_000176.1_18884	GGGACT GTCTGG GTTGGC GCTAGG	AC_0 0017 6.1_1 8884	UCGUCGGCGUCCACCCGGGUCCG CCACCACCACAGGAGUGGGGAC UGUCUGGGUUGGCGCUAGG
AC_000176.1_18884*	TCGTCC GCGTCC ACCCGG GTCCGC CA	AC_0 0017 6.1_1 8884	UCGUCGGCGUCCACCCGGGUCCG CCACCACCACAGGAGUGGGGAC UGUCUGGGUUGGCGCUAGG
AC_000176.1_18972	AGCAGG GGCTGG GCCTGG TGGT	AC_0 0017 6.1_1 8972	AGCAGGGGCUGGGCCUGGUGGU GGGGGCCCCACCUGACCACUGUC UCCGGCCCCUGCAGC
AC_000176.1_18972*	CACTGT CTCCGG CCCCTG CAGC	AC_0 0017 6.1_1 8972	AGCAGGGGCUGGGCCUGGUGGU GGGGGCCCCACCUGACCACUGUC UCCGGCCCCUGCAGC
AC_000176.1_19003*	CCCTTTT	AC_0	CUAGGAGGGAUUGGGGGGCUUGG

	CTCCCTT CCTCTG GGCA	0017 6.1_1 9003	GCCCCCAAAGGAGCCCCCCUUU UCUCCCUUCCUCUGGGCA
AC_000176.1_19003	CTAGGA GGGATT GGGGGG C	AC_0 0017 6.1_1 9003	CUAGGAGGGAUUGGGGGGCUGG GCCCCCAAAGGAGCCCCCCUUU UCUCCCUUCCUCUGGGCA
AC_000170.1_12856>AC_00 0176.1_19037>AC_000187.1 _26549>AC_000169.1_12603 >AC_000178.1_20340	AAGAAG TTCGTTT GGGTTTT T	AC_0 0017 6.1_1 9037	AAGAAGUUCGUUUGGGUUUUUC CAUAAGAUAUUAUGGAAAUGA ACUUUUUGG
AC_000176.1_19037*	TATGGA AAATGA ACTTTTT GG	AC_0 0017 6.1_1 9037	AAGAAGUUCGUUUGGGUUUUUC CAUAAGAUAUUAUGGAAAUGA ACUUUUUGG
AC_000176.1_19153>AC_00 0176.1_19154	AGGGAG TCCCTG GTAGTTC AGT	AC_0 0017 6.1_1 9153	AGGGAGUCCUGGUAGUUCAGU GGUUAAGACUCCAUGCUUUUCA UUGCAGGAGGCAUGGGUUCAGU CCCUGGUCAGGGAACUAAGA
AC_000176.1_19153*	CTGGTC AGGGAA CTAAGA	AC_0 0017 6.1_1 9153	AGGGAGUCCUGGUAGUUCAGU GGUUAAGACUCCAUGCUUUUCA UUGCAGGAGGCAUGGGUUCAGU CCCUGGUCAGGGAACUAAGA
AC_000176.1_19154*	ACTGGA CCACCA GGGAAT TCCCATT	AC_0 0017 6.1_1 9154	ACUGGACCACCAGGGAUUC AUUGUAGUUUAAAAACAACAG GGAGUCCUGGUAGUUCAGU
AC_000176.1_19153>AC_00 0176.1_19154	AGGGAG TCCCTG	AC_0 0017	ACUGGACCACCAGGGAUUC AUUGUAGUUUAAAAACAACAG

	GTAGTTC AGT	6.1_1 9154	GGAGUCCCUUGGUAGUUCAGU
AC_000176.1_19161	AGGAAG TGAGGA AGGAGC CAGA	AC_0 0017 6.1_1 9161	AGGAAGUGAGGAAGGAGCCAGA GCUGCAGCUGAAAUGAGCUGAU GGAUCCUUGCUCUCCUCCACACCU CCAGA
AC_000176.1_19161*	TTGCTCC CTCCAC ACCTCC AGA	AC_0 0017 6.1_1 9161	AGGAAGUGAGGAAGGAGCCAGA GCUGCAGCUGAAAUGAGCUGAU GGAUCCUUGCUCUCCUCCACACCU CCAGA
AC_000176.1_19167>AC_00 0176.1_19169>AC_000176.1 _19165>AC_000176.1_19168 >AC_000176.1_19170>AC_0 00176.1_19166	ACAGGG GATGGT CTGGGC TGG	AC_0 0017 6.1_1 9165	ACAGGGGAUGGUCUGGGCUGGG UGGGGCCUGCCCGAGCUGCACCC CCAUCCUGAGCAGACCUCCCUUC CGC
AC_000176.1_19169*>AC_0 00176.1_19165*	TGAGCA GACCTC CCTTCCG C	AC_0 0017 6.1_1 9165	ACAGGGGAUGGUCUGGGCUGGG UGGGGCCUGCCCGAGCUGCACCC CCAUCCUGAGCAGACCUCCCUUC CGC
AC_000176.1_19167>AC_00 0176.1_19169>AC_000176.1 _19165>AC_000176.1_19168 >AC_000176.1_19170>AC_0 00176.1_19166	ACAGGG GATGGT CTGGGC TGG	AC_0 0017 6.1_1 9166	AGCCCCAGCCCACUUCCUGAGAA CACCGUGGUCACAGGGGAUGGU CUGGGCUGG
AC_000176.1_19168*>AC_0 00176.1_19170*>AC_000176 .1_19166*	AGCCCC AGCCCA CTTCCTG AGA	AC_0 0017 6.1_1 9166	AGCCCCAGCCCACUUCCUGAGAA CACCGUGGUCACAGGGGAUGGU CUGGGCUGG
AC_000176.1_19167>AC_00	ACAGGG	AC_0	ACAGGGGAUGGUCUGGGCUGGG



0176.1_19169>AC_000176.1_19165>AC_000176.1_19168>AC_000176.1_19170>AC_000176.1_19166	GATGGT CTGGGC TGG	0017 6.1_1 9167	UGGGGCCUGCCCGAGCUGCACCC CCAUCCUGAGCAGACCUCCCUUC CAC
AC_000176.1_19167*	TGAGCA GACCTC CCTTCCA C	AC_0 0017 6.1_1 9167	ACAGGGGAUGGUCUGGGCUGGG UGGGGCCUGCCCGAGCUGCACCC CCAUCCUGAGCAGACCUCCCUUC CAC
AC_000176.1_19167>AC_000176.1_19169>AC_000176.1_19165>AC_000176.1_19168>AC_000176.1_19170>AC_000176.1_19166	ACAGGG GATGGT CTGGGC TGG	AC_0 0017 6.1_1 9168	AGCCCCAGCCCACUUCCUGAGAA CACCGUGGUCACAGGGGAUGGU CUGGGCUGG
AC_000176.1_19168*>AC_000176.1_19170*>AC_000176.1_19166*	AGCCCC AGCCCA CTTCCTG AGA	AC_0 0017 6.1_1 9168	AGCCCCAGCCCACUUCCUGAGAA CACCGUGGUCACAGGGGAUGGU CUGGGCUGG
AC_000176.1_19167>AC_000176.1_19169>AC_000176.1_19165>AC_000176.1_19168>AC_000176.1_19170>AC_000176.1_19166	ACAGGG GATGGT CTGGGC TGG	AC_0 0017 6.1_1 9169	ACAGGGGAUGGUCUGGGCUGGG UGGGGCCUGCCCGAGCUGCACCC CCAUCCUGAGCAGACCUCCCUUC CGC
AC_000176.1_19169*>AC_000176.1_19165*	TGAGCA GACCTC CCTTCCG C	AC_0 0017 6.1_1 9169	ACAGGGGAUGGUCUGGGCUGGG UGGGGCCUGCCCGAGCUGCACCC CCAUCCUGAGCAGACCUCCCUUC CGC
AC_000176.1_19167>AC_000176.1_19169>AC_000176.1_19165>AC_000176.1_19168	ACAGGG GATGGT CTGGGC	AC_0 0017 6.1_1	AGCCCCAGCCCACUUCCUGAGAA CACCGUGGUCACAGGGGAUGGU CUGGGCUGG

>AC_000176.1_19170>AC_000176.1_19166	TGG	9170	
AC_000176.1_19168*>AC_000176.1_19170*>AC_000176.1_19166*	AGCCCC AGCCCA CTTCCTG AGA	AC_000176.1_19170 6.1_1 9170	AGCCCCAGCCCACUUCCUGAGAA CACCGUGGUCACAGGGGAUGGU CUGGGCUGG
AC_000176.1_19216	AACTGT TAGGAG GCTTGG CTGCT	AC_000176.1_19216 6.1_1 9216	CAGCCAAGCCUCUCCUAACAGG AAUGGAAACUGAAACCCAACUG UUAGGAGGCUUGGCUGCU
AC_000176.1_19216*	CAGCCA AGCCTC TCCTAAC AGGAAT GG	AC_000176.1_19216 6.1_1 9216	CAGCCAAGCCUCUCCUAACAGG AAUGGAAACUGAAACCCAACUG UUAGGAGGCUUGGCUGCU
AC_000176.1_19234	CTTGGG AGGGGT CTGATGT TC	AC_000176.1_19234 6.1_1 9234	GCAUUUCCUUUCCACCAAGGUU CCUUUUGGCGCCCUUGGGAGGG GUCUGAUGUUC
AC_000176.1_19234*	GCATTTC CTTTCCA CCAAGG T	AC_000176.1_19234 6.1_1 9234	GCAUUUCCUUUCCACCAAGGUU CCUUUUGGCGCCCUUGGGAGGG GUCUGAUGUUC
AC_000176.1_19258	CTCGGT GGGGAC AAGGAG GC	AC_000176.1_19258 6.1_1 9258	UGUAUUGUCCUCCUUCUGUGGU GGAGCUUAAUCAAAAUGGCUUC CAGCUGGUCCUCGGUGGGGACA AGGAGGC
AC_000176.1_19258*	TGTATTG TCCTCCT	AC_000176.1_19258 0017	UGUAUUGUCCUCCUUCUGUGGU GGAGCUUAAUCAAAAUGGCUUC

	TCTGTG GT	6.1_1 9258	CAGCUGGUCCUCGGUGGGGACA AGGAGGC
AC_000176.1_19268*	AGCCCA GGCTGT GCCCA GACC	AC_0 0017 6.1_1 9268	AGCCCAGGCUGUGCCCCAGACCA AUUAAAGCAGCAUCUCUGGGAG UGGGACCUGGGCAUC
AC_000176.1_19268	TCTGGG AGTGGG ACCTGG GCATC	AC_0 0017 6.1_1 9268	AGCCCAGGCUGUGCCCCAGACCA AUUAAAGCAGCAUCUCUGGGAG UGGGACCUGGGCAUC
AC_000177.1_19362*	AAACCT GAATAA ACTGTTT	AC_0 0017 7.1_1 9362	AAAGUUCGUUCAGGUUUUUUGG CCCAUCUUACAGAAAAACCUGA AUAAACUGUUU
AC_000177.1_19362>AC_00 0172.1_15184*	AAAGTT CGTTCA GGTTTTT	AC_0 0017 7.1_1 9362	AAAGUUCGUUCAGGUUUUUUGG CCCAUCUUACAGAAAAACCUGA AUAAACUGUUU
AC_000177.1_19371	CGGGGG CGGTGG GGTTGG G	AC_0 0017 7.1_1 9371	UAUGCAAUUCGCUGGGCUGAAA CAUAAAUAGAGCACUCCGCGGA CACGGGGGUAGCGGGGGCGGUG GGGUUGGG
AC_000177.1_19371*	TATGCAA ATCGCTG GGCT	AC_0 0017 7.1_1 9371	UAUGCAAUUCGCUGGGCUGAAA CAUAAAUAGAGCACUCCGCGGA CACGGGGGUAGCGGGGGCGGUG GGGUUGGG
AC_000177.1_19454*	ATCTGG GGTAGG GCCTGG	AC_0 0017 7.1_1	UCUUGGGCCCCACCCCGGAGAC UGUGAAUCAGUAAGUAGAUCUG GGGUAGGGCCUGGGAAU

	GAAT	9454	
AC_000177.1_19454	TCTTGG GCCCCA CCCCCG GAGA	AC_0 0017 7.1_1 9454	UCUUGGGCCCCACCCCCGGAGAC UGUGAAUCAGUAAGUAGAUCUG GGGUAGGGCCUGGGAAU
AC_000177.1_19475	CGGCTG GAGAAG AGGCGC	AC_0 0017 7.1_1 9475	GCCCGCAUCAGCCAAUCCACCAA GAGCUUCACGCCGGGGGAGCGG CUGGAGAAGAGGCGC
AC_000177.1_19475*	GCCCCG ATCAGC CAAT	AC_0 0017 7.1_1 9475	GCCCGCAUCAGCCAAUCCACCAA GAGCUUCACGCCGGGGGAGCGG CUGGAGAAGAGGCGC
AC_000177.1_19484	AAAAAG TTCGGTC AGGTTTT T	AC_0 0017 7.1_1 9484	AAAAAGUUCGGUCAGGUUUUUC CAUAAUGUUGGAUGGAAAACCC UGAACAAACUUAUUAA
AC_000177.1_19484*	AACCCT GAACAA ACTTATT AA	AC_0 0017 7.1_1 9484	AAAAAGUUCGGUCAGGUUUUUC CAUAAUGUUGGAUGGAAAACCC UGAACAAACUUAUUAA
AC_000177.1_19498*	AAACCT GAATGA ACTTTTG GCC	AC_0 0017 7.1_1 9498	CAAGAGUUCGUUUGGGUUUUC CAGAACGUAUUAUGAAAAAACC UGAAUGAACUUUUGGCC
AC_000177.1_19498	CAAGAG TTCGTTT GGGTTTT	AC_0 0017 7.1_1 9498	CAAGAGUUCGUUUGGGUUUUC CAGAACGUAUUAUGAAAAAACC UGAAUGAACUUUUGGCC

AC_000177.1_19573*	AAAAAC CTGAAC CAACTTT TTG	AC_0 0017 7.1_1 9573	GAAAGUUAGUUUGGAUUUUUCU AUACCCUCUUAUGGAAAAACCU GAACCAACUUUUUG
AC_000177.1_19573	GAAAGT TAGTTTG GATTTTT CT	AC_0 0017 7.1_1 9573	GAAAGUUAGUUUGGAUUUUUCU AUACCCUCUUAUGGAAAAACCU GAACCAACUUUUUG
AC_000177.1_19654*	GCCAAG GAGTTC ATTCATA AGATG	AC_0 0017 7.1_1 9654	GCCAAGGAGUUCAUUCAUAAGA UGAUACAGUAAAAUCCAAGUGA ACUUUUUGGCCA
AC_000177.1_19654	TCCAAG TGAAC TTTTGGC CA	AC_0 0017 7.1_1 9654	GCCAAGGAGUUCAUUCAUAAGA UGAUACAGUAAAAUCCAAGUGA ACUUUUUGGCCA
AC_000177.1_19669*	AATGTG GGAATA GGTATAT AAT	AC_0 0017 7.1_1 9669	UUAUAUACCUAUUACCACAUUU AAUGUUCACACCAAAAAUGUGG GAAUAGGUUAUUAUU
AC_000177.1_19669	TTATATA CCTATTA CCACATT T	AC_0 0017 7.1_1 9669	UUAUAUACCUAUUACCACAUUU AAUGUUCACACCAAAAAUGUGG GAAUAGGUUAUUAUU
AC_000177.1_19799	CAGGGA CTGGGG GATGGT GAGC	AC_0 0017 7.1_1 9799	CAGGGACUGGGGGAUGGUGAGC UGGACUUGCCCUGCAGAGUGCU GUCCCAGCUUUGUGCCUGGACC AUGCUGGA
AC_000177.1_19799*	TTTGTGC	AC_0	CAGGGACUGGGGGAUGGUGAGC

	CTGGAC CATGCTG GA	0017 7.1_1 9799	UGGACUUGCCCUGCAGAGUGCU GUCCCAGCUUUGUGCCUGGACC AUGCUGGA
AC_000178.1_19863	ATAGCA GAGGAG TAGGAG GACA	AC_0 0017 8.1_1 9863	UUGUCCUACUUCUCAGCUGUCU UGACUCCCUAACAAGAUAGCAG AGGAGUAGGAGGACA
AC_000178.1_19863*	TTGTCCT ACTTCTC AGCTGT CT	AC_0 0017 8.1_1 9863	UUGUCCUACUUCUCAGCUGUCU UGACUCCCUAACAAGAUAGCAG AGGAGUAGGAGGACA
AC_000178.1_19895*	CCCCTG CCCTTCA TGCTCA ACACT	AC_0 0017 8.1_1 9895	CCCCUGCCCUUCAUGCUCAACAC UGAACUUGCAGCCGGAUGCAGU GGAGAGCCUGAUGGUGGGGUC
AC_000178.1_19895	TGGAGA GCCTGAT GGTGGG GTC	AC_0 0017 8.1_1 9895	CCCCUGCCCUUCAUGCUCAACAC UGAACUUGCAGCCGGAUGCAGU GGAGAGCCUGAUGGUGGGGUC
AC_000178.1_19901*	TGATTTT GATTGAT TCTGTG AC	AC_0 0017 8.1_1 9901	UGAUUUUGAUUGAUUCUGUGAC UGUUUUUAAAAGGCUACAUCAA GUCUUAGCUGCAGCAUGCAGGA UCUUUCGUUGUGGU
AC_000178.1_19901	TGCAGG ATCTTTC GTTGTG GT	AC_0 0017 8.1_1 9901	UGAUUUUGAUUGAUUCUGUGAC UGUUUUUAAAAGGCUACAUCAA GUCUUAGCUGCAGCAUGCAGGA UCUUUCGUUGUGGU
AC_000178.1_19953*	CAGCTG TCCACC	AC_0 0017	CAGCUGUCCACCACUGGGGCACC AAGAUAGCCUACCACCCUGUGG

	ACTGGG G	8.1_1 9953	GGUGGGGGUGCUAGAAGGAGAC CCCAGAAAGGAUGGGGACGGUC GGA
AC_000178.1_19953	CCAGAA AGGATG GGGACG GTCGGA	AC_0 0017 8.1_1 9953	CAGCUGUCCACCACUGGGGCACC AAGAUAGCCUACCACCCUGUGG GGUGGGGGUGCUAGAAGGAGAC CCCAGAAAGGAUGGGGACGGUC GGA
AC_000178.1_19991	GAGGAC TGGCAG AAGGGA	AC_0 0017 8.1_1 9991	GUUUCUGCCAUAACCUCAUUCU GGACCCCAGGAGGAGGAGGAGU CCUGGGGAGCUUGGAGGACUGG CAGAAGGGA
AC_000178.1_19991*	GTTTCTG CCATAAC CTCAT	AC_0 0017 8.1_1 9991	GUUUCUGCCAUAACCUCAUUCU GGACCCCAGGAGGAGGAGGAGU CCUGGGGAGCUUGGAGGACUGG CAGAAGGGA
AC_000178.1_19998*	ACTTGG GATCTCT GAGGCT GAG	AC_0 0017 8.1_1 9998	CAAACGAAGGGGAUUGGGGGGU CUUUUGGCUGAUGUAGAAUGUG CAGGUUGAGAGAACUUGGGAUC UCUGAGGCUGAG
AC_000178.1_19998	CAAACG AAGGGG ATTGGG GGGTC	AC_0 0017 8.1_1 9998	CAAACGAAGGGGAUUGGGGGGU CUUUUGGCUGAUGUAGAAUGUG CAGGUUGAGAGAACUUGGGAUC UCUGAGGCUGAG
AC_000178.1_20183*	CCTGTCT TCACGC TCACATA AGAC	AC_0 0017 8.1_2 0183	CCUGUCUUCACGCUCACAUAAAG ACAGAUUGUCUCUGUUGAUGUG GUCGGGGGGAUGGGA
AC_000178.1_20183	TGATGTG	AC_0	CCUGUCUUCACGCUCACAUAAAG

	GTCGGG GGGATG GGA	0017 8.1_2 0183	ACAGAUUGUCUCUGUUGAUGUG GUCGGGGGGAUGGGA
AC_000178.1_20185*	GCCTCT GCTTCCC CCGCGG CG	AC_0 0017 8.1_2 0185	GCCUCUGCUUCCCCCGCGGCGCC UAGGGAGGGAGGGGUCGCGGGG UUUUGCAGAGGACU
AC_000178.1_20185	TCGCGG GGTTTTG CAGAGG ACT	AC_0 0017 8.1_2 0185	GCCUCUGCUUCCCCCGCGGCGCC UAGGGAGGGAGGGGUCGCGGGG UUUUGCAGAGGACU
AC_000178.1_20271	ATGTCAC TCGGCC CACTAC CC	AC_0 0017 8.1_2 0271	GUAAGUGUGUCUCGGGUGAGCA UGCAAUGAACGUGCUCGCAUGU CACUCGGCCCACUACCC
AC_000178.1_20271*	GTAAGT GTGTCTC GGGTGA GCATGC	AC_0 0017 8.1_2 0271	GUAAGUGUGUCUCGGGUGAGCA UGCAAUGAACGUGCUCGCAUGU CACUCGGCCCACUACCC
AC_000178.1_20293*	AGGTTG CCCGTG GCCCGT TCG	AC_0 0017 8.1_2 0293	AGGUUGCCCGUGGCCCGUUCGC AUUCUUCAUGACGCACAAUACA CGGUCGGCCUCU
AC_000178.1_20293	CACAAT ACACGG TCGGCC TCT	AC_0 0017 8.1_2 0293	AGGUUGCCCGUGGCCCGUUCGC AUUCUUCAUGACGCACAAUACA CGGUCGGCCUCU
AC_000178.1_20299*	AGTCGG CCGCGG	AC_0 0017	AGUCGGCCGCGGGUAGCGGACG AUCGGCCCGCGUCGCCCGUUUCU



	GTAGCG	8.1_2 0299	CUCGCGCGCCGGCU
AC_000178.1_20299	CCCGTTT CTCTCGC GCGCCG GCT	AC_0 0017 8.1_2 0299	AGUCGGCCGCGGGUAGCGGACG AUCGGCCCGCGUCGCCCGUUUCU CUCGCGCGCCGGCU
AC_000170.1_12856>AC_00 0176.1_19037>AC_000187.1 _26549>AC_000169.1_12603 >AC_000178.1_20340	AAGAAG TTCGTTT GGGTTTT T	AC_0 0017 8.1_2 0340	AAGAAGUUCGUUUGGGUUUUUC UGUCCCAUGGAGACUGGACGUC UGGG
AC_000178.1_20340*	TGTCCC ATGGAG ACTGGA CGTCTG GG	AC_0 0017 8.1_2 0340	AAGAAGUUCGUUUGGGUUUUUC UGUCCCAUGGAGACUGGACGUC UGGG
AC_000178.1_20435	ACAGAG CGTGGG TGACCTT T	AC_0 0017 8.1_2 0435	ACAGAGCGUGGGUGACCUUUGC CUCUCCAGGUCCCCACGUCCAGC CC
AC_000178.1_20435*	AGGTCC CCACGT CCAGCC C	AC_0 0017 8.1_2 0435	ACAGAGCGUGGGUGACCUUUGC CUCUCCAGGUCCCCACGUCCAGC CC
AC_000178.1_20444*	AAGCGG GGCTGG GAGTGA CGGATG	AC_0 0017 8.1_2 0444	AAGCGGGGCUGGGAGUGACGGA UGCAAACGCUCUGGUGAUGCUG ACGCUUCCGCCCUUGGCCCGCA GG
AC_000178.1_20444	TTCCGCC CTTGCC	AC_0 0017	AAGCGGGGCUGGGAGUGACGGA UGCAAACGCUCUGGUGAUGCUG

	CCCGCA GG	8.1_2 0444	ACGCUUCCGCCCUUGGCCCGCA GG
AC_000178.1_20473	CTGGGG GCGGTG GGGGGC G	AC_0 0017 8.1_2 0473	CUGGGGGCGGUGGGGGGCGGUG GUGGUGCUGUCCCAGAGUGGCC CCGGGGA
AC_000178.1_20473*	TCCCAG AGTGGC CCCGGG GA	AC_0 0017 8.1_2 0473	CUGGGGGCGGUGGGGGGCGGUG GUGGUGCUGUCCCAGAGUGGCC CCGGGGA
AC_000178.1_20488>AC_00 0178.1_20487	ACCAGA CCCTTG GCCCTT GCA	AC_0 0017 8.1_2 0487	ACCAGACCCUUGGCCCUUGCAGC CCAGGGCAUCUCUCCUGUGCU GGACUGGGGCUUCUGCUGUUGU UGGCUUC
AC_000178.1_20487*	CTGGGG CTTCTGC TGTTGTT GGCTTC	AC_0 0017 8.1_2 0487	ACCAGACCCUUGGCCCUUGCAGC CCAGGGCAUCUCUCCUGUGCU GGACUGGGGCUUCUGCUGUUGU UGGCUUC
AC_000178.1_20488>AC_00 0178.1_20487	ACCAGA CCCTTG GCCCTT GCA	AC_0 0017 8.1_2 0488	GGAGGGCCAGGGGCUCUGGUCC CACUUGUGACUCCCAUCUCAG GACCAGACCCUUGGCCCUUGCA
AC_000178.1_20488*	GGAGGG CCAGGG GCTCTG GTCC	AC_0 0017 8.1_2 0488	GGAGGGCCAGGGGCUCUGGUCC CACUUGUGACUCCCAUCUCAG GACCAGACCCUUGGCCCUUGCA
AC_000178.1_20551*	AGGGAT GTTAAG GTCACC	AC_0 0017 8.1_2	AUGGUGACUUUUUAUAUGCCCU CUAUCCCAAGACUAUGGCCAGA GGGAUGUUAAGGUCACCAAGA

	AAGA	0551	
AC_000178.1_20551	ATGGTG ACTTTTT ATATGCC CTCT	AC_0 0017 8.1_2 0551	AUGGUGACUUUUUAUAUGCCCU CUAUCCCAAGACUAUGGCCAGA GGGAUGUUAAGGUCACCAAGA
AC_000178.1_20579*	AAAAAC CAAATG AACTTTT T	AC_0 0017 8.1_2 0579	UAAAGUUCAUUCGGGUUUUUUG GUACCAUCUUAUGGAAAAAACC AAAUGAACUUUUU
AC_000185.1_24616>AC_00 0167.1_10076>AC_000178.1 _20579>AC_000178.1_20580	TAAAGT TCATTCTG GGTTTTT	AC_0 0017 8.1_2 0579	UAAAGUUCAUUCGGGUUUUUUG GUACCAUCUUAUGGAAAAAACC AAAUGAACUUUUU
AC_000178.1_20580*	CGGCCC TCTTGG AATTTAT T	AC_0 0017 8.1_2 0580	CGGCCCUCUUGGAAUUUAUUGA AUUGGCCAUAAAGUUCAUUCGG GUUUUU
AC_000185.1_24616>AC_00 0167.1_10076>AC_000178.1 _20579>AC_000178.1_20580	TAAAGT TCATTCTG GGTTTTT	AC_0 0017 8.1_2 0580	CGGCCCUCUUGGAAUUUAUUGA AUUGGCCAUAAAGUUCAUUCGG GUUUUU
AC_000178.1_20604*	ACATGTT ACTCCA GGTGTAT GAT	AC_0 0017 8.1_2 0604	ACAUGUUACUCCAGGUGUAUGA UCUAGGAGGGGUUCAUCCUGGA GACUGUGGAUGGGCAACCUUAG GUGCAGGGACUGGGAGGAGAUG UCA
AC_000178.1_20604	CAGGGA CTGGGA GGAGAT	AC_0 0017 8.1_2	ACAUGUUACUCCAGGUGUAUGA UCUAGGAGGGGUUCAUCCUGGA GACUGUGGAUGGGCAACCUUAG

	GTCA	0604	GUGCAGGGACUGGGAGGAGAUG UCA
AC_000178.1_20611*	AGCTGC TGAGTG GGGCTG CGCTCA GGA	AC_0 0017 8.1_2 0611	CUGAGCCCCACUGAACGGCUG GCUCUUCAUCCGGUCCAUCCAGC UGCUGAGUGGGGCUGCGCUCAG GA
AC_000178.1_20611	CTGAGC CCCCAC TGAACG GCTGG	AC_0 0017 8.1_2 0611	CUGAGCCCCACUGAACGGCUG GCUCUUCAUCCGGUCCAUCCAGC UGCUGAGUGGGGCUGCGCUCAG GA
AC_000178.1_20645	AAGTAC AGGATG CCCAAT GAAT	AC_0 0017 8.1_2 0645	AAGUACAGGAUGCCCAAUGAAU UAAAUCCAUCUAAAUACAUUUC ACUGGGCAUCCUCUGCUUUAU
AC_000178.1_20645*	TCACTG GGCATC CTCTGCT TTAT	AC_0 0017 8.1_2 0645	AAGUACAGGAUGCCCAAUGAAU UAAAUCCAUCUAAAUACAUUUC ACUGGGCAUCCUCUGCUUUAU
AC_000178.1_20650*	CGGTTTA CCGTCC CACATAC ATA	AC_0 0017 8.1_2 0650	CGGUUUACCGUCCACAUAUACAU AUUCAGAAUGUAUGUGGGACGG UAAACCA
AC_000178.1_20650	GTATGTG GGACGG TAAACC A	AC_0 0017 8.1_2 0650	CGGUUUACCGUCCACAUAUACAU AUUCAGAAUGUAUGUGGGACGG UAAACCA
AC_000178.1_20679*	CTCGGT GCTCTA	AC_0 0017	UGGGGUGGGAGGAUGGAGAGGA GAGCUGAUGCGGGUGGGACGCU

	AACCAC G	8.1_2 0679	CUGGCUGCAGGUAAGACGUCUG CUCGGUGCUCUAAACCACG
AC_000165.1_8809>AC_000178.1_20679>AC_000162.1_5284	TGGGGT GGGAGG ATGGAG AG	AC_0 0017 8.1_2 0679	UGGGGUGGGAGGAUGGAGAGGA GAGCUGAUGC GGGUGGGACGCU CUGGCUGCAGGUAAGACGUCUG CUCGGUGCUCUAAACCACG
AC_000179.1_20692*	CACCAG CCAAGG AATGAA GGCAGC A	AC_0 0017 9.1_2 0692	CUGCUGACUUUGAAGGUGGAGG AAGGAGGCCACCAGCCAAGGAA UGAAGGCAGCA
AC_000179.1_20692	CTGCTG ACTTTG AAGGTG GA	AC_0 0017 9.1_2 0692	CUGCUGACUUUGAAGGUGGAGG AAGGAGGCCACCAGCCAAGGAA UGAAGGCAGCA
AC_000179.1_20704	TAGGCA GAGATG ACAGTC ATACT	AC_0 0017 9.1_2 0704	UAGGCAGAGAUGACAGUCAUAC UGUUGAAUUGCCAGUAUGGCAG UGUCACUGACCAACA
AC_000179.1_20704*	TATGGCA GTGTCA CTGACC AACA	AC_0 0017 9.1_2 0704	UAGGCAGAGAUGACAGUCAUAC UGUUGAAUUGCCAGUAUGGCAG UGUCACUGACCAACA
AC_000179.1_20705*	AGAGGC TTCACA GCAAAG ACCTGG CC	AC_0 0017 9.1_2 0705	AGAGGCUUCACAGCAAAGACCU GGCCUGGAGGUGGCGUGGGGCU GUGGGGCAUGGGU
AC_000179.1_20705	CGTGGG	AC_0	AGAGGCUUCACAGCAAAGACCU

	GCTGTG GGGCAT GGGT	0017 9.1_2 0705	GGCCUGGAGGUGGCGUGGGGCU GUGGGGCAUGGGU
AC_000179.1_20733*	AGGCCC GGCCCC CGCGGT CTGTGG TG	AC_0 0017 9.1_2 0733	AGGCCCGGCCCGCGGUCUGUG GUGUAGAGAAGCCUCCGCCGCC GCCGCGGCCGGGUCUCU
AC_000179.1_20733	CCGCCG CCGCGG CCGGGT CTCT	AC_0 0017 9.1_2 0733	AGGCCCGGCCCGCGGUCUGUG GUGUAGAGAAGCCUCCGCCGCC GCCGCGGCCGGGUCUCU
AC_000179.1_20738	AGGACC TGACTT GCTGTG GCCAG	AC_0 0017 9.1_2 0738	AGGACCUGACUUGCUGUGGCCA GCCCAUUCUCAAGAAGCUGCC CAGCUCCUCCAGCCCUCC
AC_000179.1_20738*	TGCCCA GCTCCTC CAGCCC TCC	AC_0 0017 9.1_2 0738	AGGACCUGACUUGCUGUGGCCA GCCCAUUCUCAAGAAGCUGCC CAGCUCCUCCAGCCCUCC
AC_000179.1_20791	AAAAAG TTCATTT GGGTTTT T	AC_0 0017 9.1_2 0791	AAAAAGUUCAUUUGGGUUUUUC CAUCUGUAGCAUCUUAUGGAAA AAGCUGAACGAACUUUUUGGCC
AC_000179.1_20791*	AAAGCT GAACGA ACTTTTT GGCC	AC_0 0017 9.1_2 0791	AAAAAGUUCAUUUGGGUUUUUC CAUCUGUAGCAUCUUAUGGAAA AAGCUGAACGAACUUUUUGGCC
AC_000173.1_15395>AC_00	AAAAGC	AC_0	AAAGUUUGUUCAAGUGUUUCC

0179.1_20793	CAGAAT GAACTT TTT	0017 9.1_2 0793	AUAAGAUGUUACAGAAAAGCCA GAAUGAACUUUUU
AC_000179.1_20793*	AAAGTT TGTTCA AGTGTTT TCC	AC_0 0017 9.1_2 0793	AAAGUUUGUUCAAGUGUUUCC AUAAGAUGUUACAGAAAAGCCA GAAUGAACUUUUU
AC_000179.1_20862	CTGGTG GTTAGG ATTCGGC ACT	AC_0 0017 9.1_2 0862	CUGGUGGUUAGGAUUCGGCACU UUUCACUGCUGUGGCCUGGGCU CAACCCGUG
AC_000179.1_20862*	TGCTGT GGCCTG GGCTCA ACCCGT G	AC_0 0017 9.1_2 0862	CUGGUGGUUAGGAUUCGGCACU UUUCACUGCUGUGGCCUGGGCU CAACCCGUG
AC_000179.1_20917	AAGCCC CTGTGC CGCCTA CTAC	AC_0 0017 9.1_2 0917	GACUGGGCCCAACUGGGGCUGU GUCAGACUCCAAGCCCCUAC UCAAGCCCCUGUGCCGCCUACUA C
AC_000179.1_20917*	GACTGG GCCCAA CTGGGG CTGTG	AC_0 0017 9.1_2 0917	GACUGGGCCCAACUGGGGCUGU GUCAGACUCCAAGCCCCUAC UCAAGCCCCUGUGCCGCCUACUA C
AC_000179.1_20974*	CACCATC AGACTG ACCCCG GGGCT	AC_0 0017 9.1_2 0974	GGGGAUCAGCUGAUGGGCGGGC UGGGGAGGGCUCCUCCACAAC ACCCACCAUCAGACUGACCCCGG GGCU
AC_000179.1_20974	GGGGAT	AC_0	GGGGAUCAGCUGAUGGGCGGGC

	CAGCTG ATGGGC GGGCT	0017 9.1_2 0974	UGGGGAGGGCUCCUCCCACAAC ACCCACCAUCAGACUGACCCCGG GGCU
AC_000179.1_20997*	ACTGCC TGCCCA GAGTCC TGTGCCT	AC_0 0017 9.1_2 0997	ACUGCCUGCCCAGAGUCCUGUG CCUCCUGCGUCUCACCCAGAGGC UGACUCUGAGCCCGGCAGUGU
AC_000179.1_20997	GCTGAC TCTGAG CCCGGC AGTGT	AC_0 0017 9.1_2 0997	ACUGCCUGCCCAGAGUCCUGUG CCUCCUGCGUCUCACCCAGAGGC UGACUCUGAGCCCGGCAGUGU
AC_000179.1_21048	AGAGTG ACCTGT GCGGCT GCCAC	AC_0 0017 9.1_2 1048	GGAGCUGCCCAGGUCACAGCUC UGUGCAUGAGUGAUUCUAGUCC CCAGAGAGUGACCUGUGCGGCU GCCAC
AC_000179.1_21048*	GGAGCT GCCAG GTCACA GCTCT	AC_0 0017 9.1_2 1048	GGAGCUGCCCAGGUCACAGCUC UGUGCAUGAGUGAUUCUAGUCC CCAGAGAGUGACCUGUGCGGCU GCCAC
AC_000179.1_21061*	CATCCCT TTCCTCT ACTGTT GAGGCC	AC_0 0017 9.1_2 1061	CCUGUGGGGGAUUGUGGGAUGU CUAGUGGCAUCCCUUCCUCUA CUGUUGAGGCC
AC_000179.1_21061	CCTGTG GGGGAT TGTGGG ATGTC	AC_0 0017 9.1_2 1061	CCUGUGGGGGAUUGUGGGAUGU CUAGUGGCAUCCCUUCCUCUA CUGUUGAGGCC
AC_000179.1_21134*	AAAAAG TTTATTT	AC_0 0017	AAAAAGUUUAUUUGGGUUUUUC AAUAUCAUACGGAAAGCCCAGA



	GGGTTTT TC	9.1_2 1134	UGAACUUUUUG
AC_000179.1_21134	AAGCCC AGATGA ACTTTTT G	AC_0 0017 9.1_2 1134	AAAAAGUUUAAUUUGGGUUUUUC AAUAUCAUACGGAAAGCCCAGA UGAACUUUUUG
AC_000179.1_21150*	GCCAAA GTTCCCT CGAGTT	AC_0 0017 9.1_2 1150	GCCAAAGUCCUUCGAGUUUUU UCAUAUCAUCUUUUGGAAACAU CUGAAUGAACUUUGUGGCCA
AC_000179.1_21150	TCTGAAT GAACTT TGTGGC CA	AC_0 0017 9.1_2 1150	GCCAAAGUCCUUCGAGUUUUU UCAUAUCAUCUUUUGGAAACAU CUGAAUGAACUUUGUGGCCA
AC_000179.1_21241	CGGGTT GTGGAG GATGTG GGC	AC_0 0017 9.1_2 1241	CGGGUUGUGGAGGAUGUGGGCC ACCCACGGGCUGGCCGUGGCGC UGGCUCUGAGCGUGCUGCCGGC CAGCC
AC_000179.1_21241*	TCTGAG CGTGCT GCCGGC CAGCC	AC_0 0017 9.1_2 1241	CGGGUUGUGGAGGAUGUGGGCC ACCCACGGGCUGGCCGUGGCGC UGGCUCUGAGCGUGCUGCCGGC CAGCC
AC_000179.1_21265	GAACGA AATCCA AGCGCA GCTG	AC_0 0017 9.1_2 1265	GAACGAAAUCCAAGCGCAGCUG GAAUGCUCUGGAGACAACAGCU GCUUUUGGGAUCCGUUGCC
AC_000179.1_21265*	GCTGCTT TTGGGAT TCCGTTG	AC_0 0017 9.1_2	GAACGAAAUCCAAGCGCAGCUG GAAUGCUCUGGAGACAACAGCU GCUUUUGGGAUCCGUUGCC

	CC	1265	
AC_000179.1_21269	AGGAGA GCTCCA GCCCCA CGGT	AC_0 0017 9.1_2 1269	AGGAGAGCUCCAGCCCCACGGU GAUGAAUCUGCCCUGGGGAAGG AGCCCUGCCCCU
AC_000179.1_21269*	CCTGGG GAAGGA GCCCTG CCCCT	AC_0 0017 9.1_2 1269	AGGAGAGCUCCAGCCCCACGGU GAUGAAUCUGCCCUGGGGAAGG AGCCCUGCCCCU
AC_000179.1_21329	CCTCCTC GCCGCC CCGCGC	AC_0 0017 9.1_2 1329	GCGGGCUGGGAGGGGCGGUGCG CCAGCCGCGCGCCCGGCCUCCUC GCCGCCCGCGC
AC_000179.1_21329*	GCGGGC TGGGAG GGGCG	AC_0 0017 9.1_2 1329	GCGGGCUGGGAGGGGCGGUGCG CCAGCCGCGCGCCCGGCCUCCUC GCCGCCCGCGC
AC_000180.1_21368*	AGACTA AACTCTT TTTCTGC CC	AC_0 0018 0.1_2 1368	GUAGGAAGAGAAGGAGUUUUGC UAAUAGAGACCAAAGAUGGGA AUGAAAAUCAGACUAAACUCUU UUUCUGCCC
AC_000180.1_21368	GTAGGA AGAGAA GGAGTT TTG	AC_0 0018 0.1_2 1368	GUAGGAAGAGAAGGAGUUUUGC UAAUAGAGACCAAAGAUGGGA AUGAAAAUCAGACUAAACUCUU UUUCUGCCC
AC_000180.1_21398*	CCGAAC AAACTT TCTGGC CAAC	AC_0 0018 0.1_2 1398	UGGCCAAAAAGGUCGUUUGGGU UUUCGUGUAAACAGCUUAUAGAA GAACCCGAACAAACUUUCUGGC CAAC

AC_000164.1_7566>AC_000180.1_21398	TGGCCA AAAAGG TCGTTT GGT	AC_0 0018 0.1_2 1398	UGGCCAAAAAGGUCGUUUGGGU UUUCGUGU AACAGCUUAUAGAA GAACCCGAACAAACUUUCUGGC CAAC
AC_000180.1_21399*	CCGGGC CCACTT GTCTCC AGAAG	AC_0 0018 0.1_2 1399	CCGGGCCACUUGUCUCCAGAA GUGCAGCUGAAGGAACUCCUGG AGAAAUUGGACCUGGUG
AC_000180.1_21399	CCTGGA GAAATT GGACCT GGTG	AC_0 0018 0.1_2 1399	CCGGGCCACUUGUCUCCAGAA GUGCAGCUGAAGGAACUCCUGG AGAAAUUGGACCUGGUG
AC_000180.1_21424*	AAAAAC ATGAATG AACCTTT TG	AC_0 0018 0.1_2 1424	AAAAAGUUCGUUUAGUUUUUUU UGUCAGAUUAUAUGGAAAAACA UGAAUGAACCUUUUG
AC_000180.1_21424	AAAAAG TTCGTTT AGTTTTT T	AC_0 0018 0.1_2 1424	AAAAAGUUCGUUUAGUUUUUUU UGUCAGAUUAUAUGGAAAAACA UGAAUGAACCUUUUG
AC_000180.1_21446	AAGTTG GGCTGG GGAGAA GAAGGA	AC_0 0018 0.1_2 1446	AAGUUGGGCUGGGGAGAAGAAG GAGCUGGGCCUUUCCUGAGCC CUGACCUGA
AC_000180.1_21446*	TTTCCT GAGCCC TGACCT GA	AC_0 0018 0.1_2 1446	AAGUUGGGCUGGGGAGAAGAAG GAGCUGGGCCUUUCCUGAGCC CUGACCUGA
AC_000180.1_21512*	AGGACC	AC_0	CUGAGAUGUCGGCUCUCCUUG

	TCCTCAT CAGCT	0018 0.1_2 1512	GUCUCGAGGCUGCUGGCCUUCA GACAGGACCUCCUCAUCAGCU
AC_000180.1_21512	CTGAGA TGTCGG CTCTTC	AC_0 0018 0.1_2 1512	CUGAGAUGUCGGCUCUUCUUG GUCUCGAGGCUGCUGGCCUUCA GACAGGACCUCCUCAUCAGCU
AC_000180.1_21540	ATGCCTT CCCCAG CCTCCG AG	AC_0 0018 0.1_2 1540	AUGCCUCCCCAGCCUCCGAGCC CUCAUAGCUGCUCGCUACGGGG AAGCUGGGGAGGGUC
AC_000180.1_21540*	TACGGG GAAGCT GGGGAG GGTC	AC_0 0018 0.1_2 1540	AUGCCUCCCCAGCCUCCGAGCC CUCAUAGCUGCUCGCUACGGGG AAGCUGGGGAGGGUC
AC_000180.1_21971>AC_00 0180.1_21965>AC_000180.1 _21550>AC_000180.1_21975	CGGGTG GTCGGG GCGGGT CA	AC_0 0018 0.1_2 1550	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCGUCCAAGAGAUG UACGGCUGCGACGUGGGGCCGG ACGGGCUUCUCCGCG
AC_000180.1_21550*	GGCCGG ACGGGC TTCTCCG CG	AC_0 0018 0.1_2 1550	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCGUCCAAGAGAUG UACGGCUGCGACGUGGGGCCGG ACGGGCUUCUCCGCG
AC_000180.1_21679*	CTGGGC CCACCC ATCAGC ATG	AC_0 0018 0.1_2 1679	CUGGGCCCACCCAUCAGCAUGG UCCAGUCGGCUGGCUAACCUGA CUGACGGAUGGGCCCAUGA
AC_000180.1_21679	TGACTG ACGGAT	AC_0 0018	CUGGGCCCACCCAUCAGCAUGG UCCAGUCGGCUGGCUAACCUGA

	GGGCCC ATGA	0.1_2 1679	CUGACGGAUGGGCCCAUGA
AC_000180.1_21704	TGAGGG GCAGAG AGAGAG G	AC_0 0018 0.1_2 1704	UGAGGGGCAGAGAGAGAGGAGC AAAGGGCUUCAGGAACUCAGCC CAAGCUCUUUUCAAGGCCUCA UG
AC_000180.1_21704*	TTTCAA GGCCCT CATG	AC_0 0018 0.1_2 1704	UGAGGGGCAGAGAGAGAGGAGC AAAGGGCUUCAGGAACUCAGCC CAAGCUCUUUUCAAGGCCUCA UG
AC_000180.1_21742>AC_00 0175.1_17579	CAACAA GTTTGTT TGGGTTT TT	AC_0 0018 0.1_2 1742	CAACAAGUUUGUUUGGGUUUUU CCAUACAUCGUACAGAAAAAC CCAAAUGAACUCGUUGGCC
AC_000180.1_21742*	CCCAAA TGAACT CGTTGG CC	AC_0 0018 0.1_2 1742	CAACAAGUUUGUUUGGGUUUUU CCAUACAUCGUACAGAAAAAC CCAAAUGAACUCGUUGGCC
AC_000180.1_21751	CGGGGG GCGGGG TGGGGG G	AC_0 0018 0.1_2 1751	UUUCACUCUGAUGGAUUCUGUG UGGGAGAGGCGAGUGGCCGCGC GGGGGGCGGGGUGGGGGG
AC_000180.1_21751*	TTTCACT CTGATG GATTCTG TG	AC_0 0018 0.1_2 1751	UUUCACUCUGAUGGAUUCUGUG UGGGAGAGGCGAGUGGCCGCGC GGGGGGCGGGGUGGGGGG
AC_000180.1_21777	GAGGTA GGGGTA GAGGAG	AC_0 0018 0.1_2	GAGGUAGGGGUAGAGGAGGGAA GGGCUCUGUGUUUAAGAUGCUC ACUUUGCCUUCUCUU

	GGA	1777	
AC_000180.1_21777*	GCTCAC TTTGCCT TCTCTT	AC_0 0018 0.1_2 1777	GAGGUAGGGGUAGAGGAGGGAA GGGCUCUGUGUUUAAGAUGCUC ACUUUGCCUUCUCUU
AC_000180.1_21783	CAGATCT GTCCTG AAACCA GCA	AC_0 0018 0.1_2 1783	CAGAUCUGUCCUGAAACCAGCA UAAAGUAGCAGCUGCCAUAUCUG GUUUCAGGACAGAUCUCUC
AC_000180.1_21783*	CTGGTTT CAGGAC AGATCTC TC	AC_0 0018 0.1_2 1783	CAGAUCUGUCCUGAAACCAGCA UAAAGUAGCAGCUGCCAUAUCUG GUUUCAGGACAGAUCUCUC
AC_000180.1_21786*	CCTGCA GGAGCG GAGCCG GGCG	AC_0 0018 0.1_2 1786	CCUGCAGGAGCGGAGCCGGGCG CAGGGCGUGUCCGGCUGUCUGC CCUGCAGGGA
AC_000180.1_21786	TCCGGC TGTCTGC CCTGCA GGGA	AC_0 0018 0.1_2 1786	CCUGCAGGAGCGGAGCCGGGCG CAGGGCGUGUCCGGCUGUCUGC CCUGCAGGGA
AC_000180.1_21834*	GCATAA GAGACC TTCGCTA C	AC_0 0018 0.1_2 1834	GCAUAAGAGACCUUCGCUACAU CAUGCAGGAUCUUUCGUUGUGG UG
AC_000161.1_4647>AC_000 180.1_21834	TGCAGG ATCTTTC GTTGTG GTG	AC_0 0018 0.1_2 1834	GCAUAAGAGACCUUCGCUACAU CAUGCAGGAUCUUUCGUUGUGG UG

AC_000180.1_21887	AAGGAG TGGGCG TGGAGG GCT	AC_0 0018 0.1_2 1887	AAGGAGUGGGCGUGGAGGGCUC CGGCAACCCUCAAUUCUGCCCCAG AGCUGGGUCUUCCACCCCAACAC CUUUG
AC_000180.1_21887*	TCTTCCA CCCCAA CACCTTT G	AC_0 0018 0.1_2 1887	AAGGAGUGGGCGUGGAGGGCUC CGGCAACCCUCAAUUCUGCCCCAG AGCUGGGUCUUCCACCCCAACAC CUUUG
AC_000180.1_21905*	AAAAAA GGAATG AATCTTT TGG	AC_0 0018 0.1_2 1905	AAAAGUUCUUUCGGGUUUUUC AUAAGAUACUAUGGGAAAAAAG GAAUGAAUCUUUUGG
AC_000180.1_21905	AAAAGT TCTTTCG GGTTTTT C	AC_0 0018 0.1_2 1905	AAAAGUUCUUUCGGGUUUUUC AUAAGAUACUAUGGGAAAAAAG GAAUGAAUCUUUUGG
AC_000180.1_21965*	ACGGGA GCCTTCT CCGCG	AC_0 0018 0.1_2 1965	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCCUCCAGCUGAUG UACGGCUGCGACGUGGGGCCGG ACGGGAGCCUUCUCCGCG
AC_000180.1_21971>AC_00 0180.1_21965>AC_000180.1 _21550>AC_000180.1_21975	CGGGTG GTCGGG GCGGGT CA	AC_0 0018 0.1_2 1965	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCCUCCAGCUGAUG UACGGCUGCGACGUGGGGCCGG ACGGGAGCCUUCUCCGCG
AC_000180.1_21970>AC_00 0180.1_21969	CGGGTG GTCGGG GTGGGT CAG	AC_0 0018 0.1_2 1969	CGGGUGGUCGGGGUGGGUCAGG GUCUCACACCAUCCAGUGGAUG CACGGCUGCGGCGUGGGGUCGG ACGGGCGCCUCCUCCGCG
AC_000180.1_21969*	GACGGG	AC_0	CGGGUGGUCGGGGUGGGUCAGG

	CGCCTC CTCCGC G	0018 0.1_2 1969	GUCUCACACCAUCCAGUGGAUG CACGGCUGCGGGCUGGGGUCGG ACGGGCGCCUCCUCCGCG
AC_000180.1_21970*	CCCCTG CCTGGA GAAGCC GGTG	AC_0 0018 0.1_2 1970	CCCCUGCCUGGAGAAGCCGGUG GGGACUUGACCCGGUUUCAUUU UCAGUUUGGGUUUAAUCACCGC GGGUGGUCGGGGUGGGUCAG
AC_000180.1_21970>AC_00 0180.1_21969	CGGGTG GTCGGG GTGGGT CAG	AC_0 0018 0.1_2 1970	CCCCUGCCUGGAGAAGCCGGUG GGGACUUGACCCGGUUUCAUUU UCAGUUUGGGUUUAAUCACCGC GGGUGGUCGGGGUGGGUCAG
AC_000180.1_21971*	ACGGGC GTCTCCT CCGCG	AC_0 0018 0.1_2 1971	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCCUCCAGUGGAUG UACGGCUGCGACGUGGGGCCGG ACGGGCGUCUCCUCCGCG
AC_000180.1_21971>AC_00 0180.1_21965>AC_000180.1 _21550>AC_000180.1_21975	CGGGTG GTCGGG GCGGGT CA	AC_0 0018 0.1_2 1971	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCCUCCAGUGGAUG UACGGCUGCGACGUGGGGCCGG ACGGGCGUCUCCUCCGCG
AC_000180.1_21972*	CCCCCG CCCGGG AGGAGC CGGCG	AC_0 0018 0.1_2 1972	CCCCCGCCCGGGAGGAGCCGGCG GGGCUUGACCCGGUUUCAUUUU CAGUUUGGGUUUAAUCACCGCG GGUGGUCGGGGCGGGUCAG
AC_000180.1_21972	CGGGTG GTCGGG GCGGGT CAG	AC_0 0018 0.1_2 1972	CCCCCGCCCGGGAGGAGCCGGCG GGGCUUGACCCGGUUUCAUUUU CAGUUUGGGUUUAAUCACCGCG GGUGGUCGGGGCGGGUCAG
AC_000180.1_21975*	ACGGGC GTTTCCT	AC_0 0018	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCCUCCAGUGGAUG



	CCGCG	0.1_2 1975	UACGGCUGCGACGUGGAGCCGG ACGGGCGUUUCCUCCGCG
AC_000180.1_21971>AC_00 0180.1_21965>AC_000180.1 _21550>AC_000180.1_21975	CGGGTG GTCGGG GCGGGT CA	AC_0 0018 0.1_2 1975	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCCUCCAGUGGAUG UACGGCUGCGACGUGGAGCCGG ACGGGCGUUUCCUCCGCG
AC_000180.1_22101*	AAACCC AAACAA ACTTTAT G	AC_0 0018 0.1_2 2101	AAAGGUUCUUUUGGGUUUUUCA UAGCAUUCUAUGGAAAAACCCA AACAAACUUUAUG
AC_000180.1_22101>AC_00 0187.1_27021	AAAGGT TCTTTTG GGTTTTT	AC_0 0018 0.1_2 2101	AAAGGUUCUUUUGGGUUUUUCA UAGCAUUCUAUGGAAAAACCCA AACAAACUUUAUG
AC_000168.1_11260*>AC_0 00171.1_14343*>AC_000180 .1_22115*	AAAACC CAAACA AACTTTT TGG	AC_0 0018 0.1_2 2115	AGAAAGUUCGUUUGGGUUUUUC UACAAGAUGUUAUGGAAAAACC CAAACAAACUUUUUGG
AC_000180.1_22115	AGAAAG TTCGTTT GGGTTTT T	AC_0 0018 0.1_2 2115	AGAAAGUUCGUUUGGGUUUUUC UACAAGAUGUUAUGGAAAAACC CAAACAAACUUUUUGG
AC_000180.1_22178*	ACATCC GACTCTT TGCGAC TTC	AC_0 0018 0.1_2 2178	ACAUCCGACUCUUUGCGACUUC UCUAGCCAAGAGUACUGGAGUC GUACUGGAGUCGGGUGUCA
AC_000180.1_22178	AGTCGT ACTGGA GTCGGG	AC_0 0018 0.1_2	ACAUCCGACUCUUUGCGACUUC UCUAGCCAAGAGUACUGGAGUC GUACUGGAGUCGGGUGUCA

	TGTCA	2178	
AC_000181.1_22204>AC_00 0160.1_3149	ACATGG GACTGT GGGAAA GGCA	AC_0 0018 1.1_2 2204	ACAUGGGACUGUGGGAAAGGCA GUCCCCUCCGCCUCCAGAGGA CUUGUUGAUUUACCGGGAAGGC UGAGUCCCAUAUGUCUCCUCCA C
AC_000181.1_22204*	CTGAGT CCCATAT GTCTCCT CCAC	AC_0 0018 1.1_2 2204	ACAUGGGACUGUGGGAAAGGCA GUCCCCUCCGCCUCCAGAGGA CUUGUUGAUUUACCGGGAAGGC UGAGUCCCAUAUGUCUCCUCCA C
AC_000181.1_22220*	GCCCCTT CCCGCT CCCCAG CCCCC	AC_0 0018 1.1_2 2220	GUGGGGGCGGUGAUGGGACUGC CUUUUCCUCCAACAGCCCUUCC CGCUCCCCAGCCCC
AC_000181.1_22220	GTGGGG GCGGTG ATGGGA CTG	AC_0 0018 1.1_2 2220	GUGGGGGCGGUGAUGGGACUGC CUUUUCCUCCAACAGCCCUUCC CGCUCCCCAGCCCC
AC_000181.1_22284*	AAACCC GATGAA ACATTTT GG	AC_0 0018 1.1_2 2284	AAUAAGUUUGUUUGGGUUUUC CGUAAGUUGUAAUGGAAAAACC CGAUGAAACAUUUUGG
AC_000181.1_22284	AATAAG TTTGTTT GGGTTTT C	AC_0 0018 1.1_2 2284	AAUAAGUUUGUUUGGGUUUUC CGUAAGUUGUAAUGGAAAAACC CGAUGAAACAUUUUGG
AC_000181.1_22322*	GCTTCCC TGGTGG	AC_0 0018	UGCCACCCAGGGACGCCCUUCC CUGCUAUUUGGGCUUCCUGGU

	GTCTGA C	1.1_2 2322	GGGUCUGAC
AC_000181.1_22322	TGCCCA CCCAGG GACGCC C	AC_0 0018 1.1_2 2322	UGCCCACCCAGGGACGCCCUUCC CUGCUAUUUGGGCUUCCCUGGU GGGUCUGAC
AC_000181.1_22333*	CCAGTG CATGGA CTTCTCA TTGCA	AC_0 0018 1.1_2 2333	CCAGUGCAUGGACUUCUCAUUG CAGUCCUUCUCCUGUUGGGAA GCACAGACACUAGGA
AC_000181.1_22333	TTGGGA AGCACA GACACT AGGA	AC_0 0018 1.1_2 2333	CCAGUGCAUGGACUUCUCAUUG CAGUCCUUCUCCUGUUGGGAA GCACAGACACUAGGA
AC_000181.1_22340*	AAACTT GAATGA ACTTTCT GAC	AC_0 0018 1.1_2 2340	CAAAAGUUUGUUUGGGUUUUC AUAUGAUCUUAUGCAAAAACUU GAAUGAACUUUCUGAC
AC_000181.1_22340	CAAAAG TTTGTTT GGGTTTT C	AC_0 0018 1.1_2 2340	CAAAAGUUUGUUUGGGUUUUC AUAUGAUCUUAUGCAAAAACUU GAAUGAACUUUCUGAC
AC_000181.1_22342	AAAAGT TCGTGC AGGTTTT TT	AC_0 0018 1.1_2 2342	AAAAGUUCGUGCAGGUUUUUUU UCACUACAGAAAAGUCCACAC AAACUUUUUG
AC_000181.1_22342*	AAAGTC CACACA AACTTTT	AC_0 0018 1.1_2	AAAAGUUCGUGCAGGUUUUUUU UCACUACAGAAAAGUCCACAC AAACUUUUUG

	TG	2342	
AC_000181.1_22370	ACCGGG GCGGAG CTTAAG AGCGGA	AC_0 0018 1.1_2 2370	ACCGGGGCGGAGCUUAAGAGCG GAGGAGCGAAUGCACGAGCGCC GCUCUCGGGCACCCGCCCGCCU G
AC_000181.1_22370*	CGCTCTC GGGCAC CCGCC CGCCTG	AC_0 0018 1.1_2 2370	ACCGGGGCGGAGCUUAAGAGCG GAGGAGCGAAUGCACGAGCGCC GCUCUCGGGCACCCGCCCGCCU G
AC_000181.1_22460	AAAGAG GTCGTTT GGGTTTT	AC_0 0018 1.1_2 2460	AAAGAGGUCGUUUGGGUUUUUC CAUAAGGUGUCACAGGAAAAGC CCAAGGAGCUGUUUGG
AC_000181.1_22460*	AGCCCA AGGAGC TGTTTGG	AC_0 0018 1.1_2 2460	AAAGAGGUCGUUUGGGUUUUUC CAUAAGGUGUCACAGGAAAAGC CCAAGGAGCUGUUUGG
AC_000175.1_17191>AC_00 0181.1_22483*	AAAAGT TCATTTG AGTTTT	AC_0 0018 1.1_2 2483	AAAAGUUCAUUUGAGUUUUUCC AUAACAUGUACUGGAAAAAGCU GAACAAGCUUUUUGGC
AC_000181.1_22483	AAAGCT GAACAA GCTTTTT GGC	AC_0 0018 1.1_2 2483	AAAAGUUCAUUUGAGUUUUUCC AUAACAUGUACUGGAAAAAGCU GAACAAGCUUUUUGGC
AC_000181.1_22498>AC_00 0168.1_12045	AGGGGT GGGGG GCGGCG	AC_0 0018 1.1_2 2498	CUGCGCACCCAGCCCCUCCAGAC CCAGCUAGGGGUGGGGGGGCGG CG

AC_000181.1_22498*	CTGCGC ACCCAG CCCCTCC	AC_0 0018 1.1_2 2498	CUGCGCACCCAGCCCCUCCAGAC CCAGCUAGGGGUGGGGGGGCGG CG
AC_000181.1_22545*	AAACCA AACAAA CTTTTTG	AC_0 0018 1.1_2 2545	GAAAAGUUCGUUUGGGUUUUUC CAUAAGAUCUUAUUGCAAAAAC CAAACAAACUUUUUG
AC_000165.1_9053>AC_000181.1_22545	GAAAAG TTCGTTT GGGTTTT T	AC_0 0018 1.1_2 2545	GAAAAGUUCGUUUGGGUUUUUC CAUAAGAUCUUAUUGCAAAAAC CAAACAAACUUUUUG
AC_000181.1_22568*	AAGGAC CCGGCC GTGGAG CCACTG C	AC_0 0018 1.1_2 2568	AAGGACCCGGCCGUGGAGCCAC UGCCUUCAUAGUCAAAAGACUAA GAGGGAGUCGUAGGGCGGAGCG GUGGGAUCGUUGU
AC_000181.1_22568	TAGGGC GGAGCG GTGGGA TCGTTGT	AC_0 0018 1.1_2 2568	AAGGACCCGGCCGUGGAGCCAC UGCCUUCAUAGUCAAAAGACUAA GAGGGAGUCGUAGGGCGGAGCG GUGGGAUCGUUGU
AC_000186.1_24945>AC_000181.1_22594>AC_000165.1_8950	AAATCT GAACAA GCTTTTT GGC	AC_0 0018 1.1_2 2594	CAAAACAAUCCUUUGGGAUUU UCCAUAAGAUGUAGUGGAAAA AUCUGAACAAGCUUUUUGGC
AC_000181.1_22594*	CAAAAC AATTCCT TTGGGAT TTTT	AC_0 0018 1.1_2 2594	CAAAACAAUCCUUUGGGAUUU UCCAUAAGAUGUAGUGGAAAA AUCUGAACAAGCUUUUUGGC

AC_000181.1_22644	AGGGAG CGGGGT GTAGTG G	AC_0 0018 1.1_2 2644	GCUCGUGUGGCAGCCUGUGCAG AGGUGGCAGGGAGCGGGGUGUA GUGG
AC_000181.1_22644*	GCTCGT GTGGCA GCCTGT	AC_0 0018 1.1_2 2644	GCUCGUGUGGCAGCCUGUGCAG AGGUGGCAGGGAGCGGGGUGUA GUGG
AC_000181.1_22669	TGCGGG GAGTGC ACGGCC TGC	AC_0 0018 1.1_2 2669	UGCGGGGAGUGCACGGCCUGCC AGGUAAAGGAAGACUGUGGGGC CUGCUCACCUGCCU
AC_000181.1_22669*	TGGGGC CTGCTCC ACCTGC CT	AC_0 0018 1.1_2 2669	UGCGGGGAGUGCACGGCCUGCC AGGUAAAGGAAGACUGUGGGGC CUGCUCACCUGCCU
AC_000181.1_22697*	AAATCC AGAAGA ATTTTT TGG	AC_0 0018 1.1_2 2697	AAUAAGUUCGUUUGGGUUUUUC CAUAAGAUUGAUGGAAAAAUC CAGAAGAAUUUUUUUGG
AC_000170.1_13547>AC_00 0174.1_16244>AC_000165.1 _8867>AC_000181.1_22697	AATAAG TTCGTTT GGGTTTT T	AC_0 0018 1.1_2 2697	AAUAAGUUCGUUUGGGUUUUUC CAUAAGAUUGAUGGAAAAAUC CAGAAGAAUUUUUUUGG
AC_000182.1_22721*	ACCGGC GACCTC TGCGCA G	AC_0 0018 2.1_2 2721	ACCGGCGACCUCUGCGCAGGCGC AAGCUGCCGUGUGCGCAGGCGC GACGCUGGCUCU
AC_000182.1_22721	GCGCAG	AC_0	ACCGGCGACCUCUGCGCAGGCGC

	GCGCGA CGCTGG CTCT	0018 2.1_2 2721	AAGCUGCCGUGUGCGCAGGCGC GACGCUGGCUCU
AC_000182.1_22742	GATGTG AAACCC AGGCC CGACA	AC_0 0018 2.1_2 2742	GAUGUGAAACCCAGGCCCGAC ACGCGCCGCCGCUCCGGGCUCGG UUGCGUCCU
AC_000182.1_22742*	TCCGGG CTCGGTT GCGTCC T	AC_0 0018 2.1_2 2742	GAUGUGAAACCCAGGCCCGAC ACGCGCCGCCGCUCCGGGCUCGG UUGCGUCCU
AC_000182.1_22930	ATGGGG GAGGCT GGCAGT GCGG	AC_0 0018 2.1_2 2930	AUGGGGGAGGCUGGCAGUGCGG ACAAGACCCUCACCGGUCCCUGC UGCCUUUUAUGUCUCCCUCAGG C
AC_000182.1_22930*	CTGCTG CCTTTTA TGTCTCC CTCAGG C	AC_0 0018 2.1_2 2930	AUGGGGGAGGCUGGCAGUGCGG ACAAGACCCUCACCGGUCCCUGC UGCCUUUUAUGUCUCCCUCAGG C
AC_000182.1_22948	CGGGAA CGGGCG GTGGGC GGG	AC_0 0018 2.1_2 2948	CGGGAACGGGCGGUGGGCGGGG CUUGAACCCCGGAAACGGUGGG GGGUCCCAGGCCUGGCCUGGA CCCCUGGGCAGUGGG
AC_000182.1_22948*	GGCCCT GGACCC CTGGGC AGTGGG	AC_0 0018 2.1_2 2948	CGGGAACGGGCGGUGGGCGGGG CUUGAACCCCGGAAACGGUGGG GGGUCCCAGGCCUGGCCUGGA CCCCUGGGCAGUGGG
AC_000182.1_22956	CATGGA	AC_0	CAUGGAGGGCAGGGGGUUGGAC

	GGGCAG GGGGTT GGA	0018 2.1_2 2956	GGAAGCCCUGUCCUCCACCCG
AC_000182.1_22956*	GGAAGC CCTGTCC TCCACC CG	AC_0 0018 2.1_2 2956	CAUGGAGGGCAGGGGGUUGGAC GGAAGCCCUGUCCUCCACCCG
AC_000182.1_22997	ATTCATG TGGTGT GGTCGT	AC_0 0018 2.1_2 2997	CCCCGCUCCACCGUGUCUCAUCC GAUUCAUGUGGUGUGGUCGU
AC_000182.1_22997*	CCCCGC TCCACC GTGTCTC A	AC_0 0018 2.1_2 2997	CCCCGCUCCACCGUGUCUCAUCC GAUUCAUGUGGUGUGGUCGU
AC_000182.1_23077	AGGGTT CGGGGG TGGGGT GGTG	AC_0 0018 2.1_2 3077	CGAUAGCCCGGCCCUCCCCGCCA CGUCCUCGAGGUGGCCCCGAG GGUUCGGGGGUGGGGUGGUG
AC_000182.1_23077*	CGATAG CCCGGC CCTCCCC GC	AC_0 0018 2.1_2 3077	CGAUAGCCCGGCCCUCCCCGCCA CGUCCUCGAGGUGGCCCCGAG GGUUCGGGGGUGGGGUGGUG
AC_000182.1_23160	CACTGG GTGGAC TAGAGG GAGTCA	AC_0 0018 2.1_2 3160	CACUGGGUGGACUAGAGGGAGU CAAGCCUGCUGAGGCAUUUGGA GAGAGGUCUCGAGGUUGGCCUC UAUCCAUGCAGGAG
AC_000182.1_23160*	TTGGCCT CTATCCA	AC_0 0018	CACUGGGUGGACUAGAGGGAGU CAAGCCUGCUGAGGCAUUUGGA



	TGCAGG AG	2.1_2 3160	GAGAGGUCUCGAGGUUGGCCUC UAUCCAUGCAGGAG
AC_000182.1_23218*	AAGTCT GCCTTCT CTCTCTC CCCA	AC_0 0018 2.1_2 3218	GUGAGUGAGAAGGCCCGCCCUG CCUGCCCCACACGAAGGUCACCC UGUGGCCACACUGGAGGCUAAG UCUGCCUUCUCUCUCUCCCCA
AC_000182.1_23218	GTGAGT GAGAAG GCCCGC CCT	AC_0 0018 2.1_2 3218	GUGAGUGAGAAGGCCCGCCCUG CCUGCCCCACACGAAGGUCACCC UGUGGCCACACUGGAGGCUAAG UCUGCCUUCUCUCUCUCCCCA
AC_000182.1_23233	AGGCTG GAGCGA ACAGGC AG	AC_0 0018 2.1_2 3233	GCCUGGGCCCAGUUGGGCUUUA UGAGGUCCCCAGGCUGGAGCGA ACAGGCAG
AC_000182.1_23233*	GCCTGG GCCCAG TTGGG	AC_0 0018 2.1_2 3233	GCCUGGGCCCAGUUGGGCUUUA UGAGGUCCCCAGGCUGGAGCGA ACAGGCAG
AC_000182.1_23243>AC_00 0182.1_23244	AGGGCC TGGAGG GTGTGG CTG	AC_0 0018 2.1_2 3243	GCCCCACCCCAGGACUCGGCCU GGUGGGCAGCAAGUUGUUUGCU GAGGUUCCCAGAUGACAUCCCA GGGCCUGGAGGGUGUGGCUG
AC_000182.1_23243*	GCCCCA CCCCA GGACTC GGCCTG G	AC_0 0018 2.1_2 3243	GCCCCACCCCAGGACUCGGCCU GGUGGGCAGCAAGUUGUUUGCU GAGGUUCCCAGAUGACAUCCCA GGGCCUGGAGGGUGUGGCUG
AC_000182.1_23243>AC_00 0182.1_23244	AGGGCC TGGAGG	AC_0 0018	AGGGCCUGGAGGGUGUGGCUGC CGCCUCCCCAAGGAGCGCCUCC

	GTGTGG CTG	2.1_2 3244	UCUCAGGCCUGG
AC_000182.1_23244*	GCCTTCC TCTCAG GCCCTG G	AC_0 0018 2.1_2 3244	AGGGCCUGGAGGGUGUGGCUGC CGCCUCCCCAAGGAGCGCCUUC UCUCAGGCCUGG
AC_000182.1_23322	CCAGGT GGGTCG GGGGAG GATGTC A	AC_0 0018 2.1_2 3322	GUGUUAUUUCCUGACUUUAAG UGGAGACUGGGGAGAAGUAAAG UUUCCAGGUGGGUCGGGGGAGG AUGUCA
AC_000182.1_23322*	GTGTTAT TTCCTGA CTTTAA GTGGAG	AC_0 0018 2.1_2 3322	GUGUUAUUUCCUGACUUUAAG UGGAGACUGGGGAGAAGUAAAG UUUCCAGGUGGGUCGGGGGAGG AUGUCA
AC_000182.1_23333	ACCTTTG GGGTCG GGGGGA CACA	AC_0 0018 2.1_2 3333	ACCUUUGGGGUCGGGGGACAC AACUCAGGCUAGAGCUGAUGUU CCCAGUUGUGGGGUGGGGGGUG AUCUUGCCAUCCCAGGGGCAU
AC_000182.1_23333*	TGATCTT GCCATCC CAGGGG CAT	AC_0 0018 2.1_2 3333	ACCUUUGGGGUCGGGGGACAC AACUCAGGCUAGAGCUGAUGUU CCCAGUUGUGGGGUGGGGGGUG AUCUUGCCAUCCCAGGGGCAU
AC_000182.1_23376	CTAGTG GGATTG GGGATA AGC	AC_0 0018 2.1_2 3376	UUCAUUUCACUUCUCCACUGAA GUGUCACCUCCUCAGAGGAUAC UUCACUAGUGGGAUUGGGGAUA AGC
AC_000182.1_23376*	TTCATTT CACTTCT	AC_0 0018	UUCAUUUCACUUCUCCACUGAA GUGUCACCUCCUCAGAGGAUAC

	CCACTG AAG	2.1_2 3376	UUCACUAGUGGGAUUGGGGAUA AGC
AC_000182.1_23455*	CCTTCTC CCATGTG TCTCCTC CGCC	AC_0 0018 2.1_2 3455	UUGGGAGACCAGGGGAAGACUC CACUAACUAGCCUUCUCCAUG UGUCUCCUCCGCC
AC_000182.1_23456>AC_00 0182.1_23455	TTGGGA GACCAG GGGAAG ACT	AC_0 0018 2.1_2 3455	UUGGGAGACCAGGGGAAGACUC CACUAACUAGCCUUCUCCAUG UGUCUCCUCCGCC
AC_000182.1_23456*	CCTTTCC ACTGAC CTCCAG GCA	AC_0 0018 2.1_2 3456	CCUUUCCACUGACCUCCAGGCAA GGGGCCUGCUGGUUGGGAGAC CAGGGGAAGACU
AC_000182.1_23456>AC_00 0182.1_23455	TTGGGA GACCAG GGGAAG ACT	AC_0 0018 2.1_2 3456	CCUUUCCACUGACCUCCAGGCAA GGGGCCUGCUGGUUGGGAGAC CAGGGGAAGACU
AC_000182.1_23470	CGCCATC GCCGCC GCCACG GCCT	AC_0 0018 2.1_2 3470	GCCGUGGUGGCUGCGCUGGGAG CCGAGAGCCGCGGCCGCCGCAU CGCCGCCGCCACGGCCU
AC_000182.1_23470*	GCCGTG GTGGCT GCGCTG GGAG	AC_0 0018 2.1_2 3470	GCCGUGGUGGCUGCGCUGGGAG CCGAGAGCCGCGGCCGCCGCAU CGCCGCCGCCACGGCCU
AC_000182.1_23474	AAAGGC TGGGTT GAGACG	AC_0 0018 2.1_2	CUGUAGCCAGCCCGCCAGGGA AGAUCAUGCCACAGAGGCAACA GAGGAAAGGCUGGGUUGAGACG

	GC	3474	GC
AC_000182.1_23474*	CTGTAG CCAGCC CGCCCA GGG	AC_0 0018 2.1_2 3474	CUGUAGCCAGCCCCGCCAGGGA AGAUCAUGCCACAGAGGCAACA GAGGAAAGGCUGGGUUGAGACG GC
AC_000182.1_23507	CTCAGG ATGTAGT CACGGG G	AC_0 0018 2.1_2 3507	CUCAGGAUGUAGUCACGGGGUU UGGGCUUGAACUCUGGUCGCGG GGCAGAUCCUUGGCAAUCCGCU GAAGUC
AC_000182.1_23507*	CTTGGC AATCCG CTGAAG TC	AC_0 0018 2.1_2 3507	CUCAGGAUGUAGUCACGGGGUU UGGGCUUGAACUCUGGUCGCGG GGCAGAUCCUUGGCAAUCCGCU GAAGUC
AC_000182.1_23556*	CCAAAA GTTTGTT CAAATT	AC_0 0018 2.1_2 3556	CCAAAAGUUUGUUCAAAUUUUC CUGU AACAGUAAAAUCUGAACG AACUUUGUGGCA
AC_000182.1_23556	TCTGAA CGAACT TTGTGG CA	AC_0 0018 2.1_2 3556	CCAAAAGUUUGUUCAAAUUUUC CUGU AACAGUAAAAUCUGAACG AACUUUGUGGCA
AC_000183.1_23683	AGAGGA GGGAGG GAGAGG	AC_0 0018 3.1_2 3683	UGUGACUCCCACAUACUCUUUC UGACAACUGCCCCAGAUGGGGA CAGUGUCACUUCAGAGAGGAGG GAGGGAGAGG
AC_000183.1_23683*	TGTGAC TCCCAC ATACTCT TT	AC_0 0018 3.1_2 3683	UGUGACUCCCACAUACUCUUUC UGACAACUGCCCCAGAUGGGGA CAGUGUCACUUCAGAGAGGAGG GAGGGAGAGG

AC_000183.1_23692	AGGTGG GAAGTC TAGTAG GCA	AC_0 0018 3.1_2 3692	AGGUGGGAAGUCUAGUAGGCAG CCAAGACUCUACUCGAGAGAAA GCACUGAGAGCUGCCAUCUGGA UUCUCUGCCAUC
AC_000183.1_23692*	CCATCTG GATTCTC TGCCATC	AC_0 0018 3.1_2 3692	AGGUGGGAAGUCUAGUAGGCAG CCAAGACUCUACUCGAGAGAAA GCACUGAGAGCUGCCAUCUGGA UUCUCUGCCAUC
AC_000183.1_23749*	ACAGGC ACGGCC AGTTTG AGCAT	AC_0 0018 3.1_2 3749	ACAGGCACGGCCAGUUUGAGCA UUUUCACUGAAUUGCCAAACCA GUUGUGCCUGUAG
AC_000183.1_23749	CCAAAC CAGTTG TGCCTGT AG	AC_0 0018 3.1_2 3749	ACAGGCACGGCCAGUUUGAGCA UUUUCACUGAAUUGCCAAACCA GUUGUGCCUGUAG
AC_000183.1_23766>AC_00 0183.1_23765	CAGGGC TGGGGG TGCAGA GAGGGG C	AC_0 0018 3.1_2 3765	CAUUCACUGCCCUGAAGCAACA UCCAGACCUCAGGACAGAAACC CUGGGUGUCAGGGCUGGGGGUG CAGAGAGGGGC
AC_000183.1_23765*	CATTCAC TGCCCT GAAGCA ACATCC AGAC	AC_0 0018 3.1_2 3765	CAUUCACUGCCCUGAAGCAACA UCCAGACCUCAGGACAGAAACC CUGGGUGUCAGGGCUGGGGGUG CAGAGAGGGGC
AC_000183.1_23766>AC_00 0183.1_23765	CAGGGC TGGGGG TGCAGA	AC_0 0018 3.1_2	CAGGGCUGGGGGUGCAGAGAGG GGCUGCUGGAUUCUGGAGGCUC UGGCUGUAGGAGCUGGAUGGGC

	GAGGGG C	3766	CCGUGCACCCCCAGCCCAUGGC
AC_000183.1_23766*	CCCGTG CACCCC CAGCCC ATGGC	AC_0 0018 3.1_2 3766	CAGGGCUGGGGGUGCAGAGAGG GGCUGCUGGAUUCUGGAGGCUC UGGCUGUAGGAGCUGGAUGGGC CCGUGCACCCCCAGCCCAUGGC
AC_000183.1_23783	CCGAGC CTGACA GATCAC ACA	AC_0 0018 3.1_2 3783	UGUGACCUGCCAGGCACCGCCU UGUCAUCCCCUAAGGCCGAGCC UGACAGAUCACACA
AC_000183.1_23783*	TGTGAC CTGCCA GGCACC GCC	AC_0 0018 3.1_2 3783	UGUGACCUGCCAGGCACCGCCU UGUCAUCCCCUAAGGCCGAGCC UGACAGAUCACACA
AC_000183.1_23785*	GTGTGA CCTGCC AGGCAC CCCC	AC_0 0018 3.1_2 3785	GUGUGACCUGCCAGGCACCCCCU UGUCAUCCCCUAAGGUCGAGCC UGACAGAUCACACAU
AC_000183.1_23785	TCGAGC CTGACA GATCAC ACAT	AC_0 0018 3.1_2 3785	GUGUGACCUGCCAGGCACCCCCU UGUCAUCCCCUAAGGUCGAGCC UGACAGAUCACACAU
AC_000183.1_23787	TCGAGC CTGACA GATCAC ACA	AC_0 0018 3.1_2 3787	UGUGACCUGCCAGGCACCCCCU GUCAUCCCCUAAGGUCGAGCCU GACAGAUCACACA
AC_000183.1_23787*	TGTGAC CTGCCA GGCACC	AC_0 0018 3.1_2	UGUGACCUGCCAGGCACCCCCU GUCAUCCCCUAAGGUCGAGCCU GACAGAUCACACA

	CCC	3787	
AC_000183.1_23807	AAGGAT GGACTT GGGCAG CA	AC_0 0018 3.1_2 3807	CUGCCCAAGUCCAUUGGUGAGG ACUGGAGAGCUGAAGGAUGGAC UUGGGCAGCA
AC_000183.1_23807*	CTGCCC AAGTCC ATTGGTG A	AC_0 0018 3.1_2 3807	CUGCCCAAGUCCAUUGGUGAGG ACUGGAGAGCUGAAGGAUGGAC UUGGGCAGCA
AC_000183.1_23809*	AAAAAG TTTGCTT GGGTTTT T	AC_0 0018 3.1_2 3809	AAAAAGUUUGCUUGGGUUUUUC UAGCUCACGGGGAAACCUGCAU GAACUUUUUGGA
AC_000183.1_23809	AAACCT GCATGA ACTTTTT GGA	AC_0 0018 3.1_2 3809	AAAAAGUUUGCUUGGGUUUUUC UAGCUCACGGGGAAACCUGCAU GAACUUUUUGGA
AC_000183.1_23944	CGGGAA GGGGAG GGAGGG ATGAAC	AC_0 0018 3.1_2 3944	UCUUCCUCCAACCUCUCCACAG CCUGGGACAAAGCGGAUGGACC CCCUUGUCCUGCUGUAAAAGUG CGGGAAGGGGAGGGAGGGAUGA AC
AC_000183.1_23944*	TCTTCT CCAACC TCTCCA CA	AC_0 0018 3.1_2 3944	UCUUCCUCCAACCUCUCCACAG CCUGGGACAAAGCGGAUGGACC CCCUUGUCCUGCUGUAAAAGUG CGGGAAGGGGAGGGAGGGAUGA AC
AC_000183.1_24002*	CGCTGG CAGTGT	AC_0 0018	CGCUGGCAGUGUUGGUGGCACU UGCGUGGGGGCGGUGGCACCAG

	TGGTGG CACT	3.1_2 4002	CACUGGCGGUGGC
AC_000183.1_24002	TGGCAC CAGCAC TGGCGG TGGC	AC_0 0018 3.1_2 4002	CGCUGGCAGUGUUGGUGGCACU UGCGUGGGGGCGGUGGCACCAG CACUGGCGGUGGC
AC_000183.1_24016	ATACTGC CAGTCT CCTTCA GA	AC_0 0018 3.1_2 4016	AUUGAAGGCUAAUUAGCAGUAU AACUAAAUAGUAAUACUGCCAG UCUCCUUCAGA
AC_000183.1_24016*	ATTGAA GGCTAAT TAGCAG TAT	AC_0 0018 3.1_2 4016	AUUGAAGGCUAAUUAGCAGUAU AACUAAAUAGUAAUACUGCCAG UCUCCUUCAGA
AC_000183.1_24033	AAAAAT TTTGTTT GGGTTTT C	AC_0 0018 3.1_2 4033	AAAAAUUUUGUUUGGGUUUUCU GUACAAUGACAUGGAAAUACCC GACUGAACUUUUUG
AC_000183.1_24033*	AATACCC GACTGA ACTTTTT G	AC_0 0018 3.1_2 4033	AAAAAUUUUGUUUGGGUUUUCU GUACAAUGACAUGGAAAUACCC GACUGAACUUUUUG
AC_000171.1_14343>AC_00 0183.1_24077	AAAAAT TTCGTTC GGGTTTT T	AC_0 0018 3.1_2 4077	AAAAAUUCGUUCGGGUUUUUU CCGCCUGCUGUUACAGGAAAAG GCCAUGAACUUUUUGG
AC_000183.1_24077*	AGGCCA ATGAAC TTTTTGG	AC_0 0018 3.1_2	AAAAAUUCGUUCGGGUUUUUU CCGCCUGCUGUUACAGGAAAAG GCCAUGAACUUUUUGG



		4077	
AC_000184.1_24135*	ACACTC CTCCTGC TGATGC AGG	AC_0 0018 4.1_2 4135	ACACUCCUCCUGCUGAUGCAGG UGCAGGGCCCUGGGGUAGGAGG UUGUGU
AC_000184.1_24135	TGGGGT AGGAGG TTGTGT	AC_0 0018 4.1_2 4135	ACACUCCUCCUGCUGAUGCAGG UGCAGGGCCCUGGGGUAGGAGG UUGUGU
AC_000184.1_24157	CGGAGA GGTGTC CGGGCA TC	AC_0 0018 4.1_2 4157	UGCACGGCAAACUGCCCUUC GUGUUGACUUCAUUCACAGGGU GGAGUGCGGAGAGGUGUCCGGG CAUC
AC_000184.1_24157*	TGCACG GCAAAA CTGCCC CTTCGTG	AC_0 0018 4.1_2 4157	UGCACGGCAAACUGCCCUUC GUGUUGACUUCAUUCACAGGGU GGAGUGCGGAGAGGUGUCCGGG CAUC
AC_000184.1_24185	GGAGGC AGAGCG CTCCTGC GGC	AC_0 0018 4.1_2 4185	UGCAGGAGGGCGCGGCCUGCCG GCUAGGCGGGAGGCAGAGCGCU CCUGCGGC
AC_000184.1_24185*	TGCAGG AGGGCG CGGCCT GCCG	AC_0 0018 4.1_2 4185	UGCAGGAGGGCGCGGCCUGCCG GCUAGGCGGGAGGCAGAGCGCU CCUGCGGC
AC_000184.1_24218	AAAAGT TCGCTC AGGTTTT	AC_0 0018 4.1_2 4218	AAAAGUUCGCUCAGGUUUUCCU GUACCAGGUUAUGGAAAAGCCU GAGUGAAUAUUUUG

AC_000184.1_24218*	AGCCTG AGTGAA TATTTTG	AC_0 0018 4.1_2 4218	AAAAGUUCGCUCAGGUUUUCCU GUACCAGGUUAUGGAAAAGCCU GAGUGAAUAUUUUG
AC_000184.1_24240*	AACCTG AACAAA TTTCTTG G	AC_0 0018 4.1_2 4240	AAUAAGUUCGUUCAGGUUUUCC CAAAAGAUGUAACAGAAAAACC UGAACAAAUUUCUUGG
AC_000184.1_24240	AATAAG TTCGTTC AGGTTTT	AC_0 0018 4.1_2 4240	AAUAAGUUCGUUCAGGUUUUCC CAAAAGAUGUAACAGAAAAACC UGAACAAAUUUCUUGG
AC_000184.1_24317*	CTCACA GGAAGT TTTTGGC CACT	AC_0 0018 4.1_2 4317	UGGCCAAAGAGUUCGUUUGGGU UUGUUGCAGCAUCUUAUGGAAA ACCUACAGGAAGUUUUUGGCC ACU
AC_000184.1_24317	TGGCCA AAGAGT TCGTTTG GGT	AC_0 0018 4.1_2 4317	UGGCCAAAGAGUUCGUUUGGGU UUGUUGCAGCAUCUUAUGGAAA ACCUACAGGAAGUUUUUGGCC ACU
AC_000184.1_24329	TGGCCA AAAAGT TCGTTTC GGT	AC_0 0018 4.1_2 4329	UGGCCAAAAGUUCGUUUCGGU UUUUCGUAAGAUCUUCAGAAA AGCUUGAGUGAACGUUUUGGCC ACC
AC_000184.1_24329*	TTGAGT GAACGT TTTGGCC ACC	AC_0 0018 4.1_2 4329	UGGCCAAAAGUUCGUUUCGGU UUUUCGUAAGAUCUUCAGAAA AGCUUGAGUGAACGUUUUGGCC ACC
AC_000184.1_24333>AC_00	AAACCT	AC_0	AAAGAGUUCGUUGAGGUUUUCG

0187.1_26769	GAATGA ACTTTTT GGCC	0018 4.1_2 4333	GUACCAUCUUAGAGACAAACCU GAAUGAACUUUUUGGCC
AC_000184.1_24333*	AAAGAG TTCGTTG AGGTTTT	AC_0 0018 4.1_2 4333	AAAGAGUUCGUUGAGGUUUUCG GUACCAUCUUAGAGACAAACCU GAAUGAACUUUUUGGCC
AC_000162.1_5683*>AC_00 0184.1_24367*	ATCCCAC ATTTGCG TATGCCG AGCC	AC_0 0018 4.1_2 4367	CUCGAGAAUAUCAGGGUGGACU CCUGGGGCUCGAUCCACAUUU GCGUAUGCCGAGCC
AC_000184.1_24367	CTCGAG AATATCA GGGTGG ACTCC	AC_0 0018 4.1_2 4367	CUCGAGAAUAUCAGGGUGGACU CCUGGGGCUCGAUCCACAUUU GCGUAUGCCGAGCC
AC_000185.1_24456*	TACGAC GGGCAA CAGAAA GGC	AC_0 0018 5.1_2 4456	UCUGCUGUGCAUUGUAGCUGGG UCACGCAAACUCAGCCAGCUAC GACGGGCAACAGAAAGGC
AC_000185.1_24456	TCTGCTG TGCATTG TAGCTG GGT	AC_0 0018 5.1_2 4456	UCUGCUGUGCAUUGUAGCUGGG UCACGCAAACUCAGCCAGCUAC GACGGGCAACAGAAAGGC
AC_000185.1_24509	AAGCAA AAGGAA CATTCTG CA	AC_0 0018 5.1_2 4509	CAGAAUAUUUCUUUAUGCUUU CUCUUGUUCUCCCAGAGUAUAA AGCAAAAGGAACAUUCUGCA
AC_000185.1_24509*	CAGAAT ATTTCTT	AC_0 0018	CAGAAUAUUUCUUUAUGCUUU CUCUUGUUCUCCCAGAGUAUAA

	TTATGCT TTC	5.1_2 4509	AGCAAAAGGAACAUUCUGCA
AC_000185.1_24559*	TGCCAA GGGAGG GGATGC CAGGGC ATG	AC_0 0018 5.1_2 4559	UGCCAAGGGAGGGGAUGCCAGG GCAUGCCUGGUCCAGCAUAUAC UUGCCCUGCCCAUUCUUCAG C
AC_000185.1_24559	TGCCCT GCCCAT CCTTTCC AGC	AC_0 0018 5.1_2 4559	UGCCAAGGGAGGGGAUGCCAGG GCAUGCCUGGUCCAGCAUAUAC UUGCCCUGCCCAUUCUUCAG C
AC_000185.1_24576*	CGTCTCC AGCAGG CTGTCCT G	AC_0 0018 5.1_2 4576	GAUUCAGGGGGCUGGGGAUGG CUGGGGGCACAAGAACCUCCGU CUCCAGCAGGCUGUCCUG
AC_000185.1_24576	GATTCA GGGGGG CTGGGG ATGGC	AC_0 0018 5.1_2 4576	GAUUCAGGGGGCUGGGGAUGG CUGGGGGCACAAGAACCUCCGU CUCCAGCAGGCUGUCCUG
AC_000185.1_24578*	ATGTCTC ATTGGCC TCTGCA AAA	AC_0 0018 5.1_2 4578	CUGCAGAGGUAGAUGGAAUGUC UUCAUGGUAUCAUGUUGCUUGC AGAUGUCUCAUUGGCCUCUGCA AAA
AC_000185.1_24578	CTGCAG AGGTAG ATGGAAT GTCT	AC_0 0018 5.1_2 4578	CUGCAGAGGUAGAUGGAAUGUC UUCAUGGUAUCAUGUUGCUUGC AGAUGUCUCAUUGGCCUCUGCA AAA
AC_000185.1_24616*	AAACCC AGAGGA	AC_0 0018	UAAAGUUCAUCGGGUUUUUAU GUAGGAUCUAGGGAAAAAACC

	ACTTTTT	5.1_2 4616	CAGAGGAACUUUUU
AC_000185.1_24616>AC_00 0167.1_10076>AC_000178.1 _20579>AC_000178.1_20580	TAAAGT TCATTCG GGTTTTT	AC_0 0018 5.1_2 4616	UAAAGUUCAUUCGGGUUUUUUAU GUAGGAUCUUAGGGAAAAAACC CAGAGGAACUUUUU
AC_000185.1_24688	AGGCCT CTGCAA CCAGGT GCGC	AC_0 0018 5.1_2 4688	AGGCCUCUGCAACCAGGUGCGC AUGCGCAGUCUCAGCACGGCCU GGCUGCAGGGGCUCCG
AC_000185.1_24688*	GGCCTG GCTGCA GGGGCT CCG	AC_0 0018 5.1_2 4688	AGGCCUCUGCAACCAGGUGCGC AUGCGCAGUCUCAGCACGGCCU GGCUGCAGGGGCUCCG
AC_000185.1_24694	GTGGAG CTGGGG AGAAGG GCA	AC_0 0018 5.1_2 4694	GUGGAGCUGGGGAGAAGGGCAG GCUCAGUGAGCCCGGGGCUGCG UCCCCACAGGGCUCAGGGGAGC AGUGGUCUAUCUUCCUGCCACU C
AC_000185.1_24694*	TCTATCT TCCTGCC ACTC	AC_0 0018 5.1_2 4694	GUGGAGCUGGGGAGAAGGGCAG GCUCAGUGAGCCCGGGGCUGCG UCCCCACAGGGCUCAGGGGAGC AGUGGUCUAUCUUCCUGCCACU C
AC_000185.1_24725*	CCCCGC GGGTGT TCGCCC ACCT	AC_0 0018 5.1_2 4725	UUCGGCGCCACCACCCUGCGGGU CGCGCUGUAAGAUCUUGCCCCG CGGGUGUUCGCCACCU
AC_000185.1_24725	TTCGGC	AC_0	UUCGGCGCCACCACCCUGCGGGU

	GCCACC ACCCTG CGGGTC G	0018 5.1_2 4725	CGCGCUGUAAGAUCUUGCCCCG CGGGUGUUCGCCACCU
AC_000185.1_24755*	GCCGTT CCGCCT GGAGGA GCTCAC C	AC_0 0018 5.1_2 4755	UGGGAAGUCGGGGGGCAUUGUC AUCUCGCCGUUCCGCCUGGAGG AGCUCACC
AC_000185.1_24755	TGGGAA GTCGGG GGGCAT TGTC A	AC_0 0018 5.1_2 4755	UGGGAAGUCGGGGGGCAUUGUC AUCUCGCCGUUCCGCCUGGAGG AGCUCACC
AC_000185.1_24828	AGCCCT TCCCTTT CACTGG CC	AC_0 0018 5.1_2 4828	AGCCCUUCCCUUUCACUGGCCUG UAGCCAGCCCAGGUCUGGUGGG AAGGAAGGGACA
AC_000185.1_24828*	TCTGGT GGGAAG GAAGGG ACA	AC_0 0018 5.1_2 4828	AGCCCUUCCCUUUCACUGGCCUG UAGCCAGCCCAGGUCUGGUGGG AAGGAAGGGACA
AC_000185.1_24830*	AAAAGT TTGTTCA GGTTTCT	AC_0 0018 5.1_2 4830	AAAAGUUUGUUCAGGUUUCUGU AAGAUGGUGCAAACCCUGAAC GAACUUUUUGGCC
AC_000185.1_24830	AACCCT GAACGA ACTTTTT GGCC	AC_0 0018 5.1_2 4830	AAAAGUUUGUUCAGGUUUCUGU AAGAUGGUGCAAACCCUGAAC GAACUUUUUGGCC

AC_000185.1_24831	CTGACA CTGGGT AACGTT GGAGT	AC_0 0018 5.1_2 4831	CUGACACUGGGU AACGUUGGAG UCUCCUGCCUCAGACCGUGGCCU GCCUUGUUGCCCAGUGUCAAGC U
AC_000185.1_24831*	TGCCTTG TTGCCC AGTGTC AAGCT	AC_0 0018 5.1_2 4831	CUGACACUGGGU AACGUUGGAG UCUCCUGCCUCAGACCGUGGCCU GCCUUGUUGCCCAGUGUCAAGC U
AC_000186.1_24944	CAGGGA CGTTCCC GGAGCC TG	AC_0 0018 6.1_2 4944	CAGGGACGUUCCCCGGAGCCUGG GCUCUGUGCCAGGCACCAGGAG GCCCCUGAA
AC_000186.1_24944*	GGCACC AGGAGG CCCCTG AA	AC_0 0018 6.1_2 4944	CAGGGACGUUCCCCGGAGCCUGG GCUCUGUGCCAGGCACCAGGAG GCCCCUGAA
AC_000186.1_24945*	AAAAGG TTCGTTA GAGTTTT C	AC_0 0018 6.1_2 4945	AAAAGGUUCGUUAGAGUUUCC UACAAGACGGUACAGAAAAUCU GAACAAGCUUUUUGGC
AC_000186.1_24945>AC_00 0181.1_22594>AC_000165.1 _8950	AAATCT GAACAA GCTTTTT GGC	AC_0 0018 6.1_2 4945	AAAAGGUUCGUUAGAGUUUCC UACAAGACGGUACAGAAAAUCU GAACAAGCUUUUUGGC
AC_000186.1_24982	AGTGGT TAGGATT CGGCGC T	AC_0 0018 6.1_2 4982	AGUGGUUAGGAUUCGGCGCUUU CACUGCCAUGGCCUCGGUUCAG CCCCUGG
AC_000186.1_24982*	CCTCGG	AC_0	AGUGGUUAGGAUUCGGCGCUUU

	TTCAGC CCCTGG	0018 6.1_2 4982	CACUGCCAUGGCCUCGGUUCAG CCCCUGG
AC_000163.1_6446>AC_000 186.1_25044	AAAAGT TCTTTCG GGTTTT	AC_0 0018 6.1_2 5044	AAAAGUUCUUUCGGGUUUUCCA CACCAUUUUAUGAAAUAUCUG AAUGCAUAUUUUG
AC_000186.1_25044*	AATCTG AATGCAT ATTTTG	AC_0 0018 6.1_2 5044	AAAAGUUCUUUCGGGUUUUCCA CACCAUUUUAUGAAAUAUCUG AAUGCAUAUUUUG
AC_000186.1_25050	CCAGGG ACTGGG AGTAAG GTAGG	AC_0 0018 6.1_2 5050	CCAGGGACUGGGAGUAAGGUAG GUCCAGCUUUUGUGACCUGCUC UCUCUGUCUCUUGUA
AC_000186.1_25050*	TGCTCTC TCTGTCT CTTGTA	AC_0 0018 6.1_2 5050	CCAGGGACUGGGAGUAAGGUAG GUCCAGCUUUUGUGACCUGCUC UCUCUGUCUCUUGUA
AC_000186.1_25247	CCGTGG GCTGCC CCCTCCC CAGC	AC_0 0018 6.1_2 5247	CUGGGGUUGGGGGGUGGGGGCC CACUGGCUCUGAGUGCUGCUGA CAGCCCGUGGGCUGCCCCUCCC CAGC
AC_000186.1_25247*	CTGGGG TTGGGG GGTGGG G	AC_0 0018 6.1_2 5247	CUGGGGUUGGGGGGUGGGGGCC CACUGGCUCUGAGUGCUGCUGA CAGCCCGUGGGCUGCCCCUCCC CAGC
AC_000186.1_25251*	GCGGGA GGGAGA	AC_0 0018	GCGGGAGGGAGACAAAAGGAUA UGGUUGGCCAGAUGGUAUCCUG



	CAAAAG GATA	6.1_2 5251	UGCUCUUUCUUCUGCAG
AC_000186.1_25251	TCCTGTG CTCTTTC TTCTGCA G	AC_0 0018 6.1_2 5251	GCGGGAGGGAGACAAAAGGAUA UGGUUGGCCAGAUGGUAUCCUG UGCUCUUUCUUCUGCAG
AC_000186.1_25267	TAGGGC TGGGGG TGGGCA GAGGAA A	AC_0 0018 6.1_2 5267	UCCUGGGCUAACUCUUGGGCUU CUGGCCCUUCACUAGCAGGUGU GGGAGCCUAGGGCUGGGGGUGG GCAGAGGAAA
AC_000186.1_25267*	TCCTGG GCTAAC TCTTGG GCTTCTG	AC_0 0018 6.1_2 5267	UCCUGGGCUAACUCUUGGGCUU CUGGCCCUUCACUAGCAGGUGU GGGAGCCUAGGGCUGGGGGUGG GCAGAGGAAA
AC_000186.1_25299*	CTGACC CCAAGC CCAGGA CG	AC_0 0018 6.1_2 5299	CUGACCCCAAGCCCAGGACGACC UCUGGACCUCCUGAGGAAGGGG UGUCGGGC
AC_000186.1_25299	TCCTGA GGAAGG GGTGTC GGGC	AC_0 0018 6.1_2 5299	CUGACCCCAAGCCCAGGACGACC UCUGGACCUCCUGAGGAAGGGG UGUCGGGC
AC_000186.1_25304	AAGGAG AGGATG AGGCCA	AC_0 0018 6.1_2 5304	AAGGAGAGGAUGAGGCCAUGCC AGAUGCUCUCUCU
AC_000186.1_25304*	GCCAGA TGCTCTC	AC_0 0018	AAGGAGAGGAUGAGGCCAUGCC AGAUGCUCUCUCU

	TCT	6.1_2 5304	
AC_000186.1_25309*	CCTGCAT CCCTGG AGGA	AC_0 0018 6.1_2 5309	CCUGCAUCCCUGGAGGAGGGGA AGGGGUCUUCAGGUGCUUGGAG GGAUUGGGGGGA
AC_000186.1_25309	CTTGGA GGGATT GGGGGG A	AC_0 0018 6.1_2 5309	CCUGCAUCCCUGGAGGAGGGGA AGGGGUCUUCAGGUGCUUGGAG GGAUUGGGGGGA
AC_000186.1_25369*	CAGAAG AATTTTT TGGCCA ACC	AC_0 0018 6.1_2 5369	UUGGCCAAAAAGUUCGUUCGGG GUUCCCAUCACACUAUAGGGAA AUCCAGAAAGAAUUUUUUGGCC AACC
AC_000186.1_25369	TTGGCC AAAAAG TTCGTTC GGG	AC_0 0018 6.1_2 5369	UUGGCCAAAAAGUUCGUUCGGG GUUCCCAUCACACUAUAGGGAA AUCCAGAAAGAAUUUUUUGGCC AACC
AC_000186.1_25616	AAGGGG CTGTAG GGAGAA TGGCA	AC_0 0018 6.1_2 5616	GCGUGAAGCCUUGGCGCUCUGG GUUCACCCAGAGGUGCUUCUGG GUGCCAAGGGGCUGUAGGGAGA AUGGCA
AC_000186.1_25616*	GCGTGA AGCCTT GGCGCT CTGGGT	AC_0 0018 6.1_2 5616	GCGUGAAGCCUUGGCGCUCUGG GUUCACCCAGAGGUGCUUCUGG GUGCCAAGGGGCUGUAGGGAGA AUGGCA
AC_000186.1_25625*	CCTCCG GCTGGG CCCTCG	AC_0 0018 6.1_2	GAGGGCGGGUGGGAGGCAGGCC UCCGGCUGGGCCCUCGC

	C	5625	
AC_000186.1_25626>AC_00 0186.1_25625	GAGGGC GGGTGG GAGGCA	AC_0 0018 6.1_2 5625	GAGGGCGGGUGGGAGGCAGGCC UCCGGCUGGGCCCUCGC
AC_000186.1_25626*	CCCCCG GGCCGC CCTGGA CCT	AC_0 0018 6.1_2 5626	CCCCCGGGCCGCCUGGACCUGC CCCCGGAGUCCUGGAGCCGGUG CAGGAGCCCUGGCAGGAGGGCG GGUGGGAGGCA
AC_000186.1_25626>AC_00 0186.1_25625	GAGGGC GGGTGG GAGGCA	AC_0 0018 6.1_2 5626	CCCCCGGGCCGCCUGGACCUGC CCCCGGAGUCCUGGAGCCGGUG CAGGAGCCCUGGCAGGAGGGCG GGUGGGAGGCA
AC_000186.1_25637*	AGCTCC CTGCTGT TCTACA GCCCCG GG	AC_0 0018 6.1_2 5637	CAAGGGGCUGUGUUGGGGGCAU CCGAUUGUGAGCCUGGUUUCUG GAGCUCCCUGCUGUUCUACAGC CCCGGG
AC_000186.1_25637	CAAGGG GCTGTG TTGGGG GCATC	AC_0 0018 6.1_2 5637	CAAGGGGCUGUGUUGGGGGCAU CCGAUUGUGAGCCUGGUUUCUG GAGCUCCCUGCUGUUCUACAGC CCCGGG
AC_000186.1_25648*	TGCCTG CTCTGA GGTCTC AGG	AC_0 0018 6.1_2 5648	UGCCUGCUCUGAGGUCUCAGGG GGCCCUGGACUGUGGGAGGGGG CGUGCA
AC_000186.1_25648	TGGA CT GTGGGA GGGGGC	AC_0 0018 6.1_2	UGCCUGCUCUGAGGUCUCAGGG GGCCCUGGACUGUGGGAGGGGG CGUGCA

	GTGCA	5648	
AC_000187.1_25691	AAAAAG TTTGCTT GGGTTTT C	AC_0 0018 7.1_2 5691	AAAAAGUUUGCUUGGGUUUUC CAUAAGAUGCUAUGAAAAAGCC CAGAUGAACUUUUUGGC
AC_000187.1_25691*	AAGCCC AGATGA ACTTTTT GGC	AC_0 0018 7.1_2 5691	AAAAAGUUUGCUUGGGUUUUC CAUAAGAUGCUAUGAAAAAGCC CAGAUGAACUUUUUGGC
AC_000187.1_25797*	AAAAAC CAAACG AACTTTT GGGC	AC_0 0018 7.1_2 5797	AAAAGUUCAUUUGGGUUUUUUG GCAAGAUGGUACAUA AAAAACC AAACGAACUUUUUGGC
AC_000187.1_25797	AAAAGT TCATTTG GGTTTTT T	AC_0 0018 7.1_2 5797	AAAAGUUCAUUUGGGUUUUUUG GCAAGAUGGUACAUA AAAAACC AAACGAACUUUUUGGC
AC_000187.1_25823>AC_00 0187.1_25824	CGAGGG GCCGGC GGCGGC GG	AC_0 0018 7.1_2 5823	GGAGGCGGCGGCCGUGUGAGGG GCGAGGCCCGAGGGGCCGGCGG CGGCGG
AC_000187.1_25823*	GGAGGC GGCGGC CGTGTG AGGGG	AC_0 0018 7.1_2 5823	GGAGGCGGCGGCCGUGUGAGGG GCGAGGCCCGAGGGGCCGGCGG CGGCGG
AC_000187.1_25823>AC_00 0187.1_25824	CGAGGG GCCGGC GGCGGC GG	AC_0 0018 7.1_2 5824	CGAGGGGCCGGCGGCGGCGGCG GCGGCGGCGGCGGCGGCGGCGG CGGG

AC_000187.1_25824*	GGCGGC GGCGGC TGCGATA GCGGG	AC_0 0018 7.1_2 5824	CGAGGGGCCGGCGGCGGCGGCG GCGGCGGCGGCGGCGUGCGAUAG CGGG
AC_000187.1_25878	CAGGCA GGGTGG GTGGGG G	AC_0 0018 7.1_2 5878	CAGGCAGGGUGGGUGGGGGGGG GCGCCCACCUCGCGUGCAGGGGC
AC_000187.1_25878*	CCCACC TCCGCT GCAGGG GC	AC_0 0018 7.1_2 5878	CAGGCAGGGUGGGUGGGGGGGG GCGCCCACCUCGCGUGCAGGGGC
AC_000187.1_25987*	CCTGGG TTGGCT GGCCGT TGT	AC_0 0018 7.1_2 5987	CCUGGGUUGGCUGGCCGUUGUG UCAGGGGGGAUCCAGAAGCUGG UGCUGACCUACUAGUGGGUGGG GUCGGGCC
AC_000187.1_25987	TACTAGT GGGTGG GGTCGG GCC	AC_0 0018 7.1_2 5987	CCUGGGUUGGCUGGCCGUUGUG UCAGGGGGGAUCCAGAAGCUGG UGCUGACCUACUAGUGGGUGGG GUCGGGCC
AC_000187.1_26186*	AAAAAA CCAAAC GATTTTT TTGG	AC_0 0018 7.1_2 6186	GAAAAGUUCGUUUGGGUUUUCU AUACCACAGUAAGAAAAAAACC AAACGAUUUUUUUGG
AC_000187.1_26186	GAAAAG TTCGTTT GGGTTTT C	AC_0 0018 7.1_2 6186	GAAAAGUUCGUUUGGGUUUUCU AUACCACAGUAAGAAAAAAACC AAACGAUUUUUUUGG
AC_000187.1_26202*	AATACTG	AC_0	CAAUAAGUUUGUUUGGGUUUUU

	AACAAA CTTTCTG GC	0018 7.1_2 6202	CCAUAAGAUGUAAUGGAAAAUA CUGAACAAACUUCUGGC
AC_000187.1_26202	CAATAA GTTTGT TGGGTTT TT	AC_0 0018 7.1_2 6202	CAAUAAGUUUGUUUGGGUUUUU CCAUAAGAUGUAAUGGAAAAUA CUGAACAAACUUCUGGC
AC_000187.1_26232	CCTCTG GGGCTG TGGGGA TGTTT	AC_0 0018 7.1_2 6232	CCUCUGGGGCUGUGGGGAUGUU CCACACCACAUCAUUCAGACCAC AUCCUCCUGUCA
AC_000187.1_26232*	TCATTCA GACCAC ATCCTCC CTGTCA	AC_0 0018 7.1_2 6232	CCUCUGGGGCUGUGGGGAUGUU CCACACCACAUCAUUCAGACCAC AUCCUCCUGUCA
AC_000187.1_26298	AGGAGG AGAGAG CTGCAA GTT	AC_0 0018 7.1_2 6298	AGGAGGAGAGAGCUGCAAGUUU UGGAAUUGUGUGUAACUUGGGG CUCGUAUCCCCCACC
AC_000187.1_26298*	CTTGGG GCTCGT ATCCCC ACC	AC_0 0018 7.1_2 6298	AGGAGGAGAGAGCUGCAAGUUU UGGAAUUGUGUGUAACUUGGGG CUCGUAUCCCCCACC
AC_000187.1_26338	TAATGGT TAGGATT CTGCAC T	AC_0 0018 7.1_2 6338	UAAUGGUUAGGAUUCUGCACUU UCACUGACAGGACUGGGGUUUG GUCCUGGUUGGGGAACUGAGA UGCCACAAUAGG
AC_000187.1_26338*	TGAGAT GCCACA	AC_0 0018	UAAUGGUUAGGAUUCUGCACUU UCACUGACAGGACUGGGGUUUG

	ATTAGG	7.1_2 6338	GUCCCUUGGUUGGGGAACUGAGA UGCCACAAUUAGG
AC_000187.1_27150*>AC_0 00187.1_26381*	AGTCTTA TCTAGA GTAGATA AG	AC_0 0018 7.1_2 6381	AGUCUUAUCUAGAGUAGAUAAAG ACUACUUAUCUACUUAUCUACU UAUCUACUCUAGAUAAAGACUUU
AC_000187.1_27150>AC_00 0187.1_26381	TATCTAC TCTAGAT AAGACT TT	AC_0 0018 7.1_2 6381	AGUCUUAUCUAGAGUAGAUAAAG ACUACUUAUCUACUUAUCUACU UAUCUACUCUAGAUAAAGACUUU
AC_000187.1_26405	CAGCAG AGGTGT GGGGAT GGTCGG	AC_0 0018 7.1_2 6405	CAGCAGAGGUGUGGGGAUGGUC GGCUCCCCCAGGGGAUGGUUGG UCAUAUUGGGAGACUUGCUCUG UUGUC
AC_000187.1_26405*	GGTCATA TTGGGA GACTTG CTCTGTT GTC	AC_0 0018 7.1_2 6405	CAGCAGAGGUGUGGGGAUGGUC GGCUCCCCCAGGGGAUGGUUGG UCAUAUUGGGAGACUUGCUCUG UUGUC
AC_000187.1_26456*	ATCTGCC CAGAGA TCAGAG GG	AC_0 0018 7.1_2 6456	CAGAGAUCAGAGGGUGAUGUCA GUACUCAGAAAUCAGAGCAUGG GUUCACUGCCGAGAGAUCAGAG GUGGGAUCUGCCCAGAGAUCAG AGGG
AC_000187.1_26456	CAGAGA TCAGAG GGTGAT GT	AC_0 0018 7.1_2 6456	CAGAGAUCAGAGGGUGAUGUCA GUACUCAGAAAUCAGAGCAUGG GUUCACUGCCGAGAGAUCAGAG GUGGGAUCUGCCCAGAGAUCAG AGGG

AC_000172.1_14892>AC_00 0187.1_26511	AAAAAG GTCGTT AGGTTTT	AC_0 0018 7.1_2 6511	AAAAAGGUCGUUCAGGUUUUCC AUAAGCUAUUACAGAAAAACCC AAAUAAAUUUUUUUGG
AC_000187.1_26511*	AACCCA AATAAAT TTTTTTG G	AC_0 0018 7.1_2 6511	AAAAAGGUCGUUCAGGUUUUCC AUAAGCUAUUACAGAAAAACCC AAAUAAAUUUUUUUGG
AC_000187.1_26536*	GTGGCA CTCAGG ATCTTCC ATC	AC_0 0018 7.1_2 6536	GUGGCACUCAGGAUCUCCAUC UUCAUUGUGGCAUGAUGGAUCU UUAGUUGUGGCGU
AC_000187.1_26536	TGATGG ATCTTTA GTTGTG GCGT	AC_0 0018 7.1_2 6536	GUGGCACUCAGGAUCUCCAUC UUCAUUGUGGCAUGAUGGAUCU UUAGUUGUGGCGU
AC_000187.1_26549*	AAATCG TAGGGA ACCTTTT G	AC_0 0018 7.1_2 6549	AAGAAGUUCGUUUGGGUUUUUC CAUAUGAUGUUUCAGAAAAAUC GUAGGGAACCUUUUG
AC_000170.1_12856>AC_00 0176.1_19037>AC_000187.1 _26549>AC_000169.1_12603 >AC_000178.1_20340	AAGAAG TTCGTTT GGGTTTT T	AC_0 0018 7.1_2 6549	AAGAAGUUCGUUUGGGUUUUUC CAUAUGAUGUUUCAGAAAAAUC GUAGGGAACCUUUUG
AC_000187.1_26571	TGAGGT AGTAGG TTGCTG G	AC_0 0018 7.1_2 6571	UGAGGUAGUAGGUUGCUGGCAU UGUGUCAACAGUAUAACUCAA AGUUUCCAAAUGGCUUUUGCAG UUGCAGCUACUACAUUGGC
AC_000187.1_26571*	TGCAGC	AC_0	UGAGGUAGUAGGUUGCUGGCAU



	TACTACA TTGGC	0018 7.1_2 6571	UGUGUCAACAGUAUAACUCAA AGUUUCCAAAUGGCUUUUGCAG UUGCAGCUACUACAUUGGC
AC_000187.1_26577	AAAACC TGAACA AACTTTT TG	AC_0 0018 7.1_2 6577	AAAAGGUUCAUUUGGGUUUUC UAUAAUAUUUAAAACCUGAAC AAACUUUUUG
AC_000187.1_26577*	AAAAGG TTCATTT GGGGTT TT	AC_0 0018 7.1_2 6577	AAAAGGUUCAUUUGGGUUUUC UAUAAUAUUUAAAACCUGAAC AAACUUUUUG
AC_000187.1_26597*	AAACTC AAAACG AACTTTT CG	AC_0 0018 7.1_2 6597	AAAGGUUCGUUCAGGUUUUUUC AUACUAUCUUUUGGGAAAACUC AAAACGAACUUUUCG
AC_000187.1_26597	AAAGGT TCGTTCA GGTTTTT	AC_0 0018 7.1_2 6597	AAAGGUUCGUUCAGGUUUUUUC AUACUAUCUUUUGGGAAAACUC AAAACGAACUUUUCG
AC_000187.1_26625	ATTGGGT CACAAA GAATCG GA	AC_0 0018 7.1_2 6625	CAUUACUGACUCA AUGGACUUG GGAUUGGGCGGACUCCGGAAU UGGUGAUGGACAGGGAGGCCUG GCAUGCUGUGGUUCAUUGGGUC ACAAAGAAUCGGA
AC_000187.1_26625*	CATTACT GACTCA ATGGAC T	AC_0 0018 7.1_2 6625	CAUUACUGACUCA AUGGACUUG GGAUUGGGCGGACUCCGGAAU UGGUGAUGGACAGGGAGGCCUG GCAUGCUGUGGUUCAUUGGGUC ACAAAGAAUCGGA

AC_000187.1_26701	AAAAAG TTCGTTT AGGTTTT T	AC_0 0018 7.1_2 6701	AAAAAGUUCGUUUAGGUUUUUC CAUAACAUCUUACGGAAACCCG AACGAACUUUUUG
AC_000187.1_26701*	AAACCC GAACGA ACTTTTT G	AC_0 0018 7.1_2 6701	AAAAAGUUCGUUUAGGUUUUUC CAUAACAUCUUACGGAAACCCG AACGAACUUUUUG
AC_000187.1_26769*	AAAAGT TCGTTCG TGTTTTT C	AC_0 0018 7.1_2 6769	AAAAGUUCGUUCGUGUUUUCCA UCACAUCUUGCAGGCAAACCUG AAUGAACUUUUUGGCC
AC_000184.1_24333>AC_00 0187.1_26769	AAACCT GAATGA ACTTTTT GGCC	AC_0 0018 7.1_2 6769	AAAAGUUCGUUCGUGUUUUCCA UCACAUCUUGCAGGCAAACCUG AAUGAACUUUUUGGCC
AC_000187.1_26838	CACTGG GAGGGA CTGGGA AAGGCA	AC_0 0018 7.1_2 6838	CCACCCGGCACUUCCCAGUCUGA GACACUGGGAGGGACUGGGAAA GGCA
AC_000187.1_26838*	CCACCC GGCACT TCCCAG TCTG	AC_0 0018 7.1_2 6838	CCACCCGGCACUUCCCAGUCUGA GACACUGGGAGGGACUGGGAAA GGCA
AC_000187.1_26877*	TCTGGG CCTTTTC CTCATTA CATAGA	AC_0 0018 7.1_2 6877	UGGACUGGGGAAGGGGUUUAGG GCUGGGUGUUAAAGGAAGAAUC UGGGCCUUUCCUCAUUACAUA GA
AC_000187.1_26877	TGGA CT	AC_0	UGGACUGGGGAAGGGGUUUAGG

	GGGGAA GGGGTT TAGGGC	0018 7.1_2 6877	GCUGGGUGUUAAAGGAAGAAUC UGGGCCUUUCCUCAUUACAUA GA
AC_000187.1_26911*	CTCAGC CAGTAG CACATC GGAG	AC_0 0018 7.1_2 6911	CUGUGUGAAGGGCAGGGCAGCU GUUGUCAGUGAUGACCGCUUCU CAGCCAGUAGCACAUCCGGAG
AC_000187.1_26911	CTGTGT GAAGGG CAGGGC A	AC_0 0018 7.1_2 6911	CUGUGUGAAGGGCAGGGCAGCU GUUGUCAGUGAUGACCGCUUCU CAGCCAGUAGCACAUCCGGAG
AC_000187.1_26956	CGGTGG ACAGAG AAGGGC AGGGGG	AC_0 0018 7.1_2 6956	UCCUCACAGGUGUCACGGUGCC AUAGUUCUUGUCCUGGUGAUGG GAGAGGAAGGGCGGUGGACAGA GAAGGGCAGGGGG
AC_000187.1_26956*	TCCTCAC AGGTGT CACGGT GCC	AC_0 0018 7.1_2 6956	UCCUCACAGGUGUCACGGUGCC AUAGUUCUUGUCCUGGUGAUGG GAGAGGAAGGGCGGUGGACAGA GAAGGGCAGGGGG
AC_000187.1_27002	CCTGGG TCAGGG TCGGGC AACT	AC_0 0018 7.1_2 7002	GAGCCCAUCAAGCUGAGUGAAA CACCUGGGUCAGGGUCGGGCAA CU
AC_000187.1_27002*	GAGCCC ATCAAG CTGAGT GA	AC_0 0018 7.1_2 7002	GAGCCCAUCAAGCUGAGUGAAA CACCUGGGUCAGGGUCGGGCAA CU
AC_000180.1_22101>AC_00 0187.1_27021	AAAGGT TCTTTTG	AC_0 0018	AAAGGUUCUUUUGGGUUUUUCA GUACAAUGUUACAGAAAAGCAC

	GGTTTTT	7.1_2 7021	AAAAUAAUUUUUUG
AC_000187.1_27021*	AAGCAC AAAATA ATTTTTT G	AC_0 0018 7.1_2 7021	AAAGGUUCUUUUGGGUUUUUCA GUACAAUGUUACAGAAAAGCAC AAAAUAAUUUUUUG
AC_000187.1_27060	AAAACA CGAACA AACTTTT	AC_0 0018 7.1_2 7060	AGUUCGUUGGAGUUUCUCUGUU ACAUUGUACAGAAAAACACGAA CAAACUUUU
AC_000187.1_27060*	AGTTCG TTGGAG TTTCTC	AC_0 0018 7.1_2 7060	AGUUCGUUGGAGUUUCUCUGUU ACAUUGUACAGAAAAACACGAA CAAACUUUU
AC_000187.1_27081>AC_00 0175.1_17247	AAAAAG TTCGTTT GGGTTTT	AC_0 0018 7.1_2 7081	AAAAAGUUCGUUUGGGUUUUUCC UGUAACAUCUUAUGGAAAAACU UGAAUGAAUCUUUUGG
AC_000187.1_27081*	AACTTG AATGAAT CTTTTGG	AC_0 0018 7.1_2 7081	AAAAAGUUCGUUUGGGUUUUUCC UGUAACAUCUUAUGGAAAAACU UGAAUGAAUCUUUUGG
AC_000187.1_27106*	AAAAGT TCATTTG GGTTTTT A	AC_0 0018 7.1_2 7106	AAAAGUUCAUUUGGGUUUUUUAU AUAACAUCUGAUGGAAAAGCCU GAACAAGCUUUUUGG
AC_000187.1_27106	AAAGCC TGAACA AGCTTTT	AC_0 0018 7.1_2	AAAAGUUCAUUUGGGUUUUUUAU AUAACAUCUGAUGGAAAAGCCU GAACAAGCUUUUUGG

	TGG	7106	
AC_000187.1_27143*	CCAGTTT GCCAGA AAGTAG GGG	AC_0 0018 7.1_2 7143	UGUGGGGUUGGAGAUGGGACCA GAAGGUCCAGUUUGCCAGAAAG UAGGGG
AC_000187.1_27143	TGTGGG GTTGGA GATGGG AC	AC_0 0018 7.1_2 7143	UGUGGGGUUGGAGAUGGGACCA GAAGGUCCAGUUUGCCAGAAAG UAGGGG
AC_000187.1_27145*	CCCAGG TGAGTG ATGTCCC AGTT	AC_0 0018 7.1_2 7145	CUGGGGGGUCGGAGGGGGUGUG AUUGGCCACACACCCAGGUGA GUGAUGUCCAGUU
AC_000187.1_27145	CTGGGG GGTCGG AGGGGG TG	AC_0 0018 7.1_2 7145	CUGGGGGGUCGGAGGGGGUGUG AUUGGCCACACACCCAGGUGA GUGAUGUCCAGUU
AC_000187.1_27150*>AC_0 00187.1_26381*	AGTCTTA TCTAGA GTAGATA AG	AC_0 0018 7.1_2 7150	AGUCUUAUCUAGAGUAGAUAAAG UAGAUAAAGUAGAUAAAGUAGUCU UAUCUACUCUAGAUAAAGACUUU
AC_000187.1_27150>AC_00 0187.1_26381	TATCTAC TCTAGAT AAGACT TT	AC_0 0018 7.1_2 7150	AGUCUUAUCUAGAGUAGAUAAAG UAGAUAAAGUAGAUAAAGUAGUCU UAUCUACUCUAGAUAAAGACUUU
AC_000163.1_6568>NW_00 3097901.1_27167	CTTGTTG GGATACT GGGCGG T	NW_ 0030 9790 1.1_2	UGCAAGCAGGCUCCAUUUGCU AACCAAGACUUGUUGGGAUACU GGGCGGU

		7167	
AC_000163.1_6568*>NW_0 03097901.1_27167*	TGCAAG CAGGCT CCCATT GCT	NW_ 0030 9790 1.1_2 7167	UGCAAGCAGGCUCCCAUUUGCU AACCAAGACUUGUUGGGAUACU GGGCGGU
NW_003099614.1_27214>A C_000171.1_14154	CCCTGG GGCTGT GGAAGG AGGC	NW_ 0030 9961 4.1_2 7214	CCCUGGGGCUGUGGAAGGAGGC UGUGGGGGGAGGGGCACCUUGG GCCACAGGUCAACGGGGCG
NW_003099614.1_27214*	CTTGGG CCACAG GTCAAC GGGGCG	NW_ 0030 9961 4.1_2 7214	CCCUGGGGCUGUGGAAGGAGGC UGUGGGGGGAGGGGCACCUUGG GCCACAGGUCAACGGGGCG
NW_003099755.1_27230*	ATCCCGC TTTGCAT ATGCCG AGCC	NW_ 0030 9975 5.1_2 7230	CUCGAGAAUAUGCGGGUGGACU CCUGAGGCUCGAUCCCGCUUUG CAUAUGCCGAGCC
NW_003099755.1_27230>A C_000162.1_5683	CTCGAG AATATGC GGGTGG ACTCC	NW_ 0030 9975 5.1_2 7230	CUCGAGAAUAUGCGGGUGGACU CCUGAGGCUCGAUCCCGCUUUG CAUAUGCCGAGCC
NW_003100065.1_27249*	CCTGGT GCTTTG GGGAGC	NW_ 0031 0006	CCUGGUGCUUUGGGGAGCAGGU ACAGCCUGUGAGGGUGAGCAGG GGCUGGGAGGACAGGGGGUGUU

	AGG	5.1_2 7249	CCUGGUGUUUGGGGUAGAAGGC A
NW_003100065.1_27249	TGGTGT TGGGGT AGAAGG CA	NW_ 0031 0006 5.1_2 7249	CCUGGUGCUUUGGGGAGCAGGU ACAGCCUGUGAGGGUGAGCAGG GGCUGGGAGGACAGGGGGUGUU CCUGGUGUUUGGGGUAGAAGGC A
NW_003100510.1_27294	CCTGGG GCTGTG GAAGGA GGC	NW_ 0031 0051 0.1_2 7294	CCUGGGGCUGUGGAAGGAGGCU GUGGGGGGAGGGGCACCUUGGG CCACAGGUCAACGGGGC
NW_003100510.1_27294*	CTTGGG CCACAG GTCAAC GGGGC	NW_ 0031 0051 0.1_2 7294	CCUGGGGCUGUGGAAGGAGGCU GUGGGGGGAGGGGCACCUUGGG CCACAGGUCAACGGGGC
NW_003100865.1_27349*	AGCCCC CTCAAA GCCTTG CA	NW_ 0031 0086 5.1_2 7349	CAGGGCUGGAGGGGGCGGGGGG ACGAGGAUUGGGGCAGAAGAAC CUGCCCAGCUCAGAGCCCCUCA AAGCCUUGCA
NW_003100865.1_27349	CAGGGC TGGAGG GGGCGG G	NW_ 0031 0086 5.1_2 7349	CAGGGCUGGAGGGGGCGGGGGG ACGAGGAUUGGGGCAGAAGAAC CUGCCCAGCUCAGAGCCCCUCA AAGCCUUGCA

**S3** Precursors and mature

novel miRNA ID	mature sequence	hairpin ID	hairpin sequence
AC_000158.1_1029	AGCCCA AGACCA TACATTA GGT	AC_000158.1_1029	AGCCCAAGACCAUACAUUAGGU GUACUGUCCUAAUUAACACCUA GUGCAUGGUCUUGGGCUUG
AC_000158.1_1029*	CTAGTG CATGGTC	AC_000158.1_1029	AGCCCAAGACCAUACAUUAGGU GUACUGUCCUAAUUAACACCUA



	TTGGGC TTG	8.1_1 029	GUGCAUGGUCUUGGGCUUG
AC_000158.1_1059*	AAAACC CGAACA AACTTT GTGG	AC_0 0015 8.1_1 059	CCAAAGUUCGUUCGGGUUUUUC CUUAGUAUGUUACGGAAAAACC CGAACAAACUUUGUGG
AC_000158.1_1059	CCAAAG TTCGTTC GGGTTTT TC	AC_0 0015 8.1_1 059	CCAAAGUUCGUUCGGGUUUUUC CUUAGUAUGUUACGGAAAAACC CGAACAAACUUUGUGG
AC_000158.1_1117	AGAGAC AGTGGG TGCTGG	AC_0 0015 8.1_1 117	AGAGACAGUGGGUGCUGGGGAG AGAAGGGUGUUUGUCAAGGGC AAGUGGGCUCUGCAGAGCCUUU CAGCAGCCCCUGUCAUCUC
AC_000158.1_1117*	AGCAGC CCCTGTC ATCTC	AC_0 0015 8.1_1 117	AGAGACAGUGGGUGCUGGGGAG AGAAGGGUGUUUGUCAAGGGC AAGUGGGCUCUGCAGAGCCUUU CAGCAGCCCCUGUCAUCUC
AC_000158.1_128*	AGCAGA CTCTGG ACAGTC AG	AC_0 0015 8.1_1 28	UACUGUACUGUGUUAACUGGGA GACUUGCCCAGCAAACUCCCAGC AGACUCUGGACAGUCAG
AC_000158.1_128	TACTGTA CTGTGTT AACTGG	AC_0 0015 8.1_1 28	UACUGUACUGUGUUAACUGGGA GACUUGCCCAGCAAACUCCCAGC AGACUCUGGACAGUCAG
AC_000158.1_252	CAGTCC GGTCCC GCGGTG	AC_0 0015 8.1_2	CAGUCCGGUCCC GCGGUGUCUCC GCCUGUUGAUGCCGCGCGGCC GCGGGCUCGGAUGCUC

	TCTCCG	52	
AC_000158.1_252*	GCGGCC CGCGGG CTCGGAT GCTC	AC_0 0015 8.1_2 52	CAGUCCGGUCCCGCGGUGUCUCC GCCUGUUGAUGCCGCGCGGCC GCGGGCUCGGAUGCUC
AC_000158.1_371	AAGGAA GAAAGA AGGATA GGCT	AC_0 0015 8.1_3 71	UAUAUCCUCCUUCUUCUGACU UUCUUUUUGUUACUGAAAGGA AGAAAGAAGGAUAGGCU
AC_000158.1_371*	TATATCC TTCCTTC TTCTGAC TTTC	AC_0 0015 8.1_3 71	UAUAUCCUCCUUCUUCUGACU UUCUUUUUGUUACUGAAAGGA AGAAAGAAGGAUAGGCU
AC_000158.1_375*	TCTACCT TGCCCTC TGCCAG G	AC_0 0015 8.1_3 75	UCUACCUUGCCCUCUGCCAGGG AAUGGGGAAAGCAGGAGUGAGG A
AC_000158.1_375	TGGGGA AAGCAG GAGTGA GGA	AC_0 0015 8.1_3 75	UCUACCUUGCCCUCUGCCAGGG AAUGGGGAAAGCAGGAGUGAGG A
AC_000158.1_382*	AAAATT CCAAAC AAACTT TTTGA	AC_0 0015 8.1_3 82	AAUAAGUUCGUUCAGUUUUUUG UAAGGAAAAAUCCAAACAAAC UUUUUGA
AC_000158.1_382	AATAAG TTCGTTC AGTTTTT T	AC_0 0015 8.1_3 82	AAUAAGUUCGUUCAGUUUUUUG UAAGGAAAAAUCCAAACAAAC UUUUUGA

AC_000158.1_420	AGAGGA GGTTGG AGTGAG AGT	AC_0 0015 8.1_4 20	AGAGGAGGUUGGAGUGAGAGUG UCAUGUAUUGGGAUAGCCAGGG GAUCCUUGCCUUUGGCCUUUCU UCUCCUCCUUCUUCCUCUUC
AC_000158.1_420*	TCTCCTC CTTCTTC CTCTTC	AC_0 0015 8.1_4 20	AGAGGAGGUUGGAGUGAGAGUG UCAUGUAUUGGGAUAGCCAGGG GAUCCUUGCCUUUGGCCUUUCU UCUCCUCCUUCUUCCUCUUC
AC_000158.1_466*	ATGTTGG CTTCTAG CCCTGG TAGGAC	AC_0 0015 8.1_4 66	CAGUCAGGGCUGGGGGCAGGUG GGGUGCCCAGACCCCACAAAUG UGGGGGGAUGGAGAGCUCUAUGU UGGCUUCUAGCCCUGGUAGGAC
AC_000158.1_466	CAGTCA GGGCTG GGGGCA GGTGG	AC_0 0015 8.1_4 66	CAGUCAGGGCUGGGGGCAGGUG GGGUGCCCAGACCCCACAAAUG UGGGGGGAUGGAGAGCUCUAUGU UGGCUUCUAGCCCUGGUAGGAC
AC_000158.1_508*	GCTCAC ACCGCT CCCTGT	AC_0 0015 8.1_5 08	UGGGACGACAUGGAGAAGGCGU GGCAGGCCUUUGUCCAGCACAG AGGCCGGAGCCAGCUCACACCGC UCCCUGU
AC_000158.1_508	TGGGAC GACATG GAGAAG	AC_0 0015 8.1_5 08	UGGGACGACAUGGAGAAGGCGU GGCAGGCCUUUGUCCAGCACAG AGGCCGGAGCCAGCUCACACCGC UCCCUGU
AC_000158.1_576	CAGGGA GCTGAG TTGAAG AGGA	AC_0 0015 8.1_5 76	CAGGGAGCUGAGUUGAAGAGGA AGUCCACUGAAAAUAGUUUGGA AUAGUCUACUCUCCUCUUCUAA CUCAACUCCCUAA
AC_000158.1_576*	CTCTTCA	AC_0	CAGGGAGCUGAGUUGAAGAGGA

	ACTCAA CTCCCTT AA	0015 8.1_5 76	AGUCCACUGAAAAUAGUUUGGA AUAGUCUACUCUCCUCUCAA CUCAACUCCCUAA
AC_000158.1_607*	ACCTGC TTCCTCC CTTCC	AC_0 0015 8.1_6 07	ACCUGCUUCCUCCCUUCCUUGGA GGGCACGGUGGGUGGGGUCAA GGGGGUAGGGACAGGGGGGCAG GAGA
AC_000158.1_607	TAGGGA CAGGGG GGCAGG AGA	AC_0 0015 8.1_6 07	ACCUGCUUCCUCCCUUCCUUGGA GGGCACGGUGGGUGGGGUCAA GGGGGUAGGGACAGGGGGGCAG GAGA
AC_000158.1_662	AAGGAG CTGGAG GAAGAT	AC_0 0015 8.1_6 62	UUUGCUGAAAGAGCUCUUUGAUC AGUAAUGAGAAGGAGCUGGAGG AAGAU
AC_000158.1_662*	TTTGCTA AAGAGC TCTTTGA	AC_0 0015 8.1_6 62	UUUGCUGAAAGAGCUCUUUGAUC AGUAAUGAGAAGGAGCUGGAGG AAGAU
AC_000170.1_12862>AC_000158.1_689>AC_000158.1_869	AAAAAT TTCGTTC AGGTTTT TC	AC_0 0015 8.1_6 89	AAAAAUUCGUUCAGGUUUUUC UGUAACACUGUAUAAGAAAACC AGGAUGAACUUUUUGG
AC_000158.1_689*	AAAACC AGGATG AACTTTT TGG	AC_0 0015 8.1_6 89	AAAAAUUCGUUCAGGUUUUUC UGUAACACUGUAUAAGAAAACC AGGAUGAACUUUUUGG
AC_000158.1_725*	ACACAG AAAGTC	AC_0 0015	UUUGGACUUGACAUGCAUGUU UAUAAACAUAUUUCAUAUGUAA

	AAGTCC AAATT	8.1_7 25	ACACAGAAAGUCAAGUCCAAAU U
AC_000158.1_725	TTTGGA CTTGAC ATTGCAT GTTT	AC_0 0015 8.1_7 25	UUUGGACUUGACAUGCAUGUU UAUAAACAUAUUUCAUAUGUAA ACACAGAAAGUCAAGUCCAAAU U
AC_000160.1_2452*>AC_00 0158.1_789>AC_000163.1_6 322	AAATGTT CTTTTGG GTTTTT	AC_0 0015 8.1_7 89	AAAUGUUCUUUUGGGUUUUUCU AUAAGAAGUCCUGAGUGAACU UUUUG
AC_000158.1_789*	G TTCCTG AGTGAA CTTTTTG	AC_0 0015 8.1_7 89	AAAUGUUCUUUUGGGUUUUUCU AUAAGAAGUCCUGAGUGAACU UUUUG
AC_000158.1_814*	CGCTTC GCCTATG CGGG	AC_0 0015 8.1_8 14	CGCUUCGCCUAUGCGGGCUGGG GCUGCAAGUUGCAAACUUCAGC AACUCGGGUGGGUAGAAGGGUA
AC_000158.1_814	CGGGTG GGTAGA AGGGTA	AC_0 0015 8.1_8 14	CGCUUCGCCUAUGCGGGCUGGG GCUGCAAGUUGCAAACUUCAGC AACUCGGGUGGGUAGAAGGGUA
AC_000158.1_836	CACGCT CCCCGG CCCTCCC GGT	AC_0 0015 8.1_8 36	GUGGAGGGCGGGGAGCGAGCGA GGGCGGCGCACGCUCCCCGGCCC UCCCCGU
AC_000158.1_836*	GTGGAG GGCGGG GAGCGA	AC_0 0015 8.1_8	GUGGAGGGCGGGGAGCGAGCGA GGGCGGCGCACGCUCCCCGGCCC UCCCCGU

	GCG	36	
AC_000158.1_838*	GGCCAA AAAGTT AGGTAT	AC_0 0015 8.1_8 38	GGCCAAAAAGUUAGGUUUUCU GUAAGAUGGUAUGGAAAAAUCC AAGUGAACUUUUUGGCCAA
AC_000158.1_838>AC_0001 69.1_12363	TCCAAG TGAACT TTTTGGC CAA	AC_0 0015 8.1_8 38	GGCCAAAAAGUUAGGUUUUCU GUAAGAUGGUAUGGAAAAAUCC AAGUGAACUUUUUGGCCAA
AC_000158.1_846	AAGGAT GTGAGG CTGGCG AGGCAG	AC_0 0015 8.1_8 46	UUCGUGCCGGCCUAUAUUUACC CGAGAUCUCCUCUCGGACUGC AAGGAUGUGAGGCUGGCGAGGC AG
AC_000158.1_846*	TTCGTGC CGGCCT ATATTTA CCC	AC_0 0015 8.1_8 46	UUCGUGCCGGCCUAUAUUUACC CGAGAUCUCCUCUCGGACUGC AAGGAUGUGAGGCUGGCGAGGC AG
AC_000158.1_869*	AAAAAT CCAAAT GAACTT TTTG	AC_0 0015 8.1_8 69	AAAAAUUCGUUCAGGUUUUUC CAUAACAUCUACACAAAAAUC CAAUGAACUUUUUG
AC_000170.1_12862>AC_00 0158.1_689>AC_000158.1_8 69	AAAAAT TTCGTTC AGGTTTT TC	AC_0 0015 8.1_8 69	AAAAAUUCGUUCAGGUUUUUC CAUAACAUCUACACAAAAAUC CAAUGAACUUUUUG
AC_000158.1_885	AAGCAG GATTTAG ACTACA ATAT	AC_0 0015 8.1_8 85	AAGCAGGAUUUAGACUACAAUA UAGCUGCUAAGUGCUGUGUUGU CGUUCUUUUUGCUA

AC_000158.1_885*	TGTTGTC GTTCCCC CTGCTA	AC_0 0015 8.1_8 85	AAGCAGGAUUUAGACUACAAUA UAGCUGCUAAGUGCUGUGUUGU CGUUCCCCCUGCUA
AC_000158.1_901*	AAAAAC TCAAAT GAACTT TTTG	AC_0 0015 8.1_9 01	AAAAAGUUUGUUUGGAUUUUUU GUGACAUCUUACAGAAAAACUC AAAUGAACUUUUUG
AC_000158.1_901	AAAAAG TTTGTTT GGATTTT T	AC_0 0015 8.1_9 01	AAAAAGUUUGUUUGGAUUUUUU GUGACAUCUUACAGAAAAACUC AAAUGAACUUUUUG
AC_000163.1_6897>AC_000 158.1_917	AAAAAG TTTGTTT GGATTTT C	AC_0 0015 8.1_9 17	AAAAAGUUUGUUUGGAUUUUCC AUAUGAUGUCACAGAAGAACCC AAAUGAACUUUUUG
AC_000158.1_917*	AAGAAC CCAAAT GAACTT TTTG	AC_0 0015 8.1_9 17	AAAAAGUUUGUUUGGAUUUUCC AUAUGAUGUCACAGAAGAACCC AAAUGAACUUUUUG
AC_000158.1_939	AAGGGC TGGGAA GGAGGC TGGG	AC_0 0015 8.1_9 39	AAGGGCUGGGAAGGAGGCUGGG GGAGGGGACGGCACACUGCUGA CCCAGGAAAUCUUCCCUGUGGC CAUCAG
AC_000158.1_939*	CAGGAA ATCTTCC CTGTGG CCATCA G	AC_0 0015 8.1_9 39	AAGGGCUGGGAAGGAGGCUGGG GGAGGGGACGGCACACUGCUGA CCCAGGAAAUCUUCCCUGUGGC CAUCAG

AC_000158.1_96*	CTGTCC CACGGC GGGGCC CCCATG	AC_0 0015 8.1_9 6	UGGGGGUGGUCGUCUGGGCGUCG GCCGGGAUGGGCGGGCGGUCGAC UGUCGCACGGCGGGGCCCCCAU G
AC_000158.1_96	TGGGGG TGGTCG TCTGGC GTC	AC_0 0015 8.1_9 6	UGGGGGUGGUCGUCUGGGCGUCG GCCGGGAUGGGCGGGCGGUCGAC UGUCGCACGGCGGGGCCCCCAU G
AC_000158.1_968*	CGGGGC CCACATC TGTCCA GAGG	AC_0 0015 8.1_9 68	CGGGGCCCAUCAUCUGUCCAGAG GAAGUACUUGAGGGGAUCCUCU GACAAGUGCUGGGACUCAGG
AC_000158.1_968	TCTGAC AAGTGC TGGGAC TCAGG	AC_0 0015 8.1_9 68	CGGGGCCCAUCAUCUGUCCAGAG GAAGUACUUGAGGGGAUCCUCU GACAAGUGCUGGGACUCAGG
AC_000158.1_976	GGAGGC GTGGGT TCGAATC	AC_0 0015 8.1_9 76	UUCUGAUCACAGUCUCUUCUGG AGGCGUGGGUUCGAAUC
AC_000158.1_976*	TTCTGAT CACAGT CTCTTC	AC_0 0015 8.1_9 76	UUCUGAUCACAGUCUCUUCUGG AGGCGUGGGUUCGAAUC
AC_000159.1_1276*	GGAGGC AGTGGG CCCCAG TGGG	AC_0 0015 9.1_1 276	UCUGGGGCACAUGCUGACUCCC UGGGUGCAGUCUGGAGCCAGGA GGCAGUGGGCCCCAGUGGG
AC_000159.1_1276	TCTGGG	AC_0	UCUGGGGCACAUGCUGACUCCC



	GCACAT GCTGAC TCCCTG	0015 9.1_1 276	UGGGUGCAGUCUGGAGCCAGGA GGCAGUGGGCCCCAGUGGG
AC_000159.1_1329	CTGGGC GGGTAG GGCAGG G	AC_0 0015 9.1_1 329	CUGUCCUAAGCAGCCCAAGUUA UCUCGAUCUGGCUGUUCACAUG CGGGGUUGGGGGACUGCUCUGG GCGGGUAGGGCAGGG
AC_000159.1_1329*	CTGTCCT AAGCAG CCCAAG T	AC_0 0015 9.1_1 329	CUGUCCUAAGCAGCCCAAGUUA UCUCGAUCUGGCUGUUCACAUG CGGGGUUGGGGGACUGCUCUGG GCGGGUAGGGCAGGG
AC_000159.1_1342	AAAACC TGAATG AACTTTT TT	AC_0 0015 9.1_1 342	AAA AUGUUCGUUCGGGUUUCUC AUAAGCUCUAUGGAAAACCUG AAUGAACUUUUUU
AC_000159.1_1342*	AAAATG TTCGTTC GGGTTT	AC_0 0015 9.1_1 342	AAA AUGUUCGUUCGGGUUUCUC AUAAGCUCUAUGGAAAACCUG AAUGAACUUUUUU
AC_000159.1_1347>AC_000 159.1_1349	ACTGGA CTTGGG GTCAGA AGG	AC_0 0015 9.1_1 347	UUCUGUUGUGAGUGUGCAAAGG GCCAGUCAGCUGUACUGACACC AGCACUGGACUUGGGGUCAGAA GG
AC_000159.1_1347*>AC_00 0159.1_1349*	TTCTGTT GTGAGT GTGC	AC_0 0015 9.1_1 347	UUCUGUUGUGAGUGUGCAAAGG GCCAGUCAGCUGUACUGACACC AGCACUGGACUUGGGGUCAGAA GG
AC_000159.1_1347>AC_000 159.1_1349	ACTGGA CTTGGG	AC_0 0015	UUCUGUUGUGAGUGUGCAAAGG GCCAGUCAGCUGUACUGACACC

	GTCAGA AGG	9.1_1 349	AGCACUGGACUUGGGGUCAGAA GG
AC_000159.1_1347*>AC_00 0159.1_1349*	TTCTGTT GTGAGT GTGC	AC_0 0015 9.1_1 349	UUCUGUUGUGAGUGUGCAAAGG GCCAGUCAGCUGUACUGACACC AGCACUGGACUUGGGGUCAGAA GG
AC_000159.1_1358	AAAGAG TTCGTTT GGGTTTT	AC_0 0015 9.1_1 358	AAAGAGUUCGUUUGGGUUUUUC UGGAAGAUGGUAUGGGAAAACU CUCAUGAUCUCUUUGU
AC_000159.1_1358*	AACTCT CATGATC TCTTTGT	AC_0 0015 9.1_1 358	AAAGAGUUCGUUUGGGUUUUUC UGGAAGAUGGUAUGGGAAAACU CUCAUGAUCUCUUUGU
AC_000159.1_1403	CGGAGA GTGGGG GGGTCG TTGG	AC_0 0015 9.1_1 403	GGGGACCUCCGGGAGGGUUGAG GGUUGGUGGGGACGCCUGGCCG AGAGUGGGGGGGUCGUUGG
AC_000159.1_1403*	GGGGAC CTCCGG GAGGGT TGAGGG T	AC_0 0015 9.1_1 403	GGGGACCUCCGGGAGGGUUGAG GGUUGGUGGGGACGCCUGGCCG AGAGUGGGGGGGUCGUUGG
AC_000159.1_1553*	AGGCTC TCGGCC CGGGGG AGGA	AC_0 0015 9.1_1 553	AGGCUCUCGGCCCGGGGAGGA CAGGGCAAGGGGAAACACCUUU GCUGGUGCAAGCUAGGGGCUGU GGGAGUUGGA
AC_000159.1_1553	CAAGCT AGGGGC	AC_0 0015	AGGCUCUCGGCCCGGGGAGGA CAGGGCAAGGGGAAACACCUUU

	TGTGGG AGTTGG A	9.1_1 553	GCUGGUGCAAGCUAGGGGCUGU GGGAGUUGGA
AC_000159.1_1574*	CGGGTT CGCTGTT ACAGCC CAACC	AC_0 0015 9.1_1 574	CUGGGUGUUCGGUGACUCGGUC UCUGCUCCGGGUUCGCUGUUAC AGCCCAACC
AC_000159.1_1574	CTGGGT GTTCGG TGACTC GGT	AC_0 0015 9.1_1 574	CUGGGUGUUCGGUGACUCGGUC UCUGCUCCGGGUUCGCUGUUAC AGCCCAACC
AC_000159.1_1716*	AAACCT GAACAA ATTCCCC AG	AC_0 0015 9.1_1 716	AAAGAGUUCGUUGAGGUUUUUC CAUAACAUCUACAGAAAAACC UGAACAAAUCCCCAG
AC_000159.1_1716	AAAGAG TTCGTTG AGGTTTT T	AC_0 0015 9.1_1 716	AAAGAGUUCGUUGAGGUUUUUC CAUAACAUCUACAGAAAAACC UGAACAAAUCCCCAG
AC_000159.1_1756*	AGAACT ATAAAG TCTCTGG GTC	AC_0 0015 9.1_1 756	CCCGAGAGGAGAGAGGACUGGC UGACAGUAAAAGCGGAAGGCAG AGCUGGGGCUAGAACUAUAAAG UCUCUGGGUC
AC_000159.1_1756	CCCGAG AGGAGA GAGGAC TGG	AC_0 0015 9.1_1 756	CCCGAGAGGAGAGAGGACUGGC UGACAGUAAAAGCGGAAGGCAG AGCUGGGGCUAGAACUAUAAAG UCUCUGGGUC
AC_000159.1_1770	CAGGAG GGGCTG	AC_0 0015	CAGGAGGGGCUGUAGGGACGGU UGCCCCAGUGACGGGAGGGGCU

	TAGGGA CGGTT	9.1_1 770	GGCCCUUGGAUUCCCUCUGGGA
AC_000159.1_1770*	CTGGCC CTGGATT CCCTCTG GGA	AC_0 0015 9.1_1 770	CAGGAGGGGCUGUAGGGACGGU UGCCCCAGUGACGGGAGGGGCU GGCCCUUGGAUUCCCUCUGGGA
AC_000159.1_1835	AAGGGG GAAGAA AAGAGT TCAGT	AC_0 0015 9.1_1 835	GGGGCUCUUUCAUUUCCCCCUU UCGGCUCCGUUUGUAAGUGAAA GGGGGAAGAAAAGAGUUCAGU
AC_000159.1_1835*	GGGGCT CTTTCAT TTCCCC TTTC	AC_0 0015 9.1_1 835	GGGGCUCUUUCAUUUCCCCCUU UCGGCUCCGUUUGUAAGUGAAA GGGGGAAGAAAAGAGUUCAGU
AC_000159.1_1845*	AGGGCC CTCCCC ACCCGC CTGG	AC_0 0015 9.1_1 845	AGGGCCCUCCCCACCCGCCUGGG CGGCCAGAACUCCAGCCCUGGG GAGUGGGCAGGGCCUGUU
AC_000159.1_1845	TGGGGA GTGGGC AGGGCC TGTT	AC_0 0015 9.1_1 845	AGGGCCCUCCCCACCCGCCUGGG CGGCCAGAACUCCAGCCCUGGG GAGUGGGCAGGGCCUGUU
AC_000159.1_1853	CAAGTG GTCGTC CTTCCA GGTG	AC_0 0015 9.1_1 853	CCUGCGGGCACCGCCCAGGCCCCG GAUUCAAGUGGUCGUCCUCCA GGUG
AC_000159.1_1853*	CCTGCG GGCACC GCCCAG	AC_0 0015 9.1_1	CCUGCGGGCACCGCCCAGGCCCCG GAUUCAAGUGGUCGUCCUCCA GGUG

	G	853	
AC_000159.1_1871*	CTATCCC AGACAA TCCCCT CCAGTC AC	AC_0 0015 9.1_1 871	CUAUCCCAGACAAUCCCACUCCA GUCACCAGGGGAACUCAAGCCC UCUCUCUCGGGGAUUGUAGGGG UGGC
AC_000159.1_1871	CTCTCG GGGATT GTAGGG GTGGC	AC_0 0015 9.1_1 871	CUAUCCCAGACAAUCCCACUCCA GUCACCAGGGGAACUCAAGCCC UCUCUCUCGGGGAUUGUAGGGG UGGC
AC_000159.1_1979*	GGACCT CCAAATT CATCTCT TCC	AC_0 0015 9.1_1 979	UGGAGAGAAAGGAAGGUCCUGG UGCAAACAUCCCAGCUGCCAAG AUUAGGGACCUCCAAAUUCAUC UCUUCC
AC_000159.1_1979	TGGAGA GAAAGG AAGGTC CTG	AC_0 0015 9.1_1 979	UGGAGAGAAAGGAAGGUCCUGG UGCAAACAUCCCAGCUGCCAAG AUUAGGGACCUCCAAAUUCAUC UCUUCC
AC_000159.1_1995*	AAAACCT GAACAG ACTTTCT G	AC_0 0015 9.1_1 995	AAAGGUUCGUUCAGGUUUUUC AUUAGUAUCUACAGGAAAAAC UGAACAGACUUUCUG
AC_000159.1_1995	AAAGGT TCGTTCA GGTTTTT C	AC_0 0015 9.1_1 995	AAAGGUUCGUUCAGGUUUUUC AUUAGUAUCUACAGGAAAAAC UGAACAGACUUUCUG
AC_000159.1_2035	ACTCTTC CCTCCCT CGGCCG	AC_0 0015 9.1_2	ACUCUCCCCUCCCUCGGCCGGCG CUCUCGCGUUCGGCUGCCAGCCG GGACUGGGAGGAAGA

	G	035	
AC_000159.1_2035*	CCAGCC GGGACT GGGAGG AAGA	AC_0 0015 9.1_2 035	ACUCUCCCCUCCCUCGGCCGGCG CUCUCGCGUUCGGCUGCCAGCCG GGACUGGGAGGAAGA
AC_000159.1_2167*	AAAATAT GTAATCC TCCACAT	AC_0 0015 9.1_2 167	AGGGAGAUUGCAUACUUUAUAG AUAUUAUAUAAAAUAUUUACA UAUAUAAAAUAUGUAAUCCUCC ACAU
AC_000159.1_2167	AGGGAG ATTGCAT ACTTTAT	AC_0 0015 9.1_2 167	AGGGAGAUUGCAUACUUUAUAG AUAUUAUAUAAAAUAUUUACA UAUAUAAAAUAUGUAAUCCUCC ACAU
AC_000167.1_11053*>AC_0 00170.1_12965>AC_000159. 1_2216>AC_000161.1_4718	AAACTT GAATGA ACCTTTT GGCC	AC_0 0015 9.1_2 216	CCAAAAAUGUGUUUGAGUUUU UCCAUACCAUCUUAUGGAAAAA CUUGAAUGAACCUUUUGGCC
AC_000159.1_2216*	CCAAAA AATGTGT TTGAGTT TTT	AC_0 0015 9.1_2 216	CCAAAAAUGUGUUUGAGUUUU UCCAUACCAUCUUAUGGAAAAA CUUGAAUGAACCUUUUGGCC
AC_000159.1_2295	CGGCGG CGGCGG CGACTC G	AC_0 0015 9.1_2 295	CGGCGGCGGCGGCGACUCGCAG GCUCGGGGCUCGGGCUCCGCGG GCUGCCCGGCGCGACGCGGGAG GCUGCGCACCAAGG
AC_000159.1_2295*	GGAGGC TGCGCA CCAAGG	AC_0 0015 9.1_2 295	CGGCGGCGGCGGCGACUCGCAG GCUCGGGGCUCGGGCUCCGCGG GCUGCCCGGCGCGACGCGGGAG GCUGCGCACCAAGG

AC_000159.1_2357*	GAAGGG GAAGGA CGTGGT GGTG	AC_0 0015 9.1_2 357	UGACUGCUCCUGCCCCAUGCAGC UGGCUGUGCCCUUCUGUGUGAA CUUCCGGCUGAAGGGGAAGGAC GUGGUGGUG
AC_000159.1_2357	TGACTG CTCCTGC CCCATGC AGC	AC_0 0015 9.1_2 357	UGACUGCUCCUGCCCCAUGCAGC UGGCUGUGCCCUUCUGUGUGAA CUUCCGGCUGAAGGGGAAGGAC GUGGUGGUG
AC_000159.1_2373*	AGTCAC TGGTCTC TTCTCTG CAGG	AC_0 0015 9.1_2 373	UGUGGGAAGGAGCUGUGCUGGU AGAAAGGGGCUCUCCAGUCACU GGUCUCUUCUCUGCAGG
AC_000159.1_2373	TGTGGG AAGGAG CTGTGCT GG	AC_0 0015 9.1_2 373	UGUGGGAAGGAGCUGUGCUGGU AGAAAGGGGCUCUCCAGUCACU GGUCUCUUCUCUGCAGG
AC_000159.1_2374*	GTGAAG TTACTGC TACGTC	AC_0 0015 9.1_2 374	GUGAAGUUACUGCUACGUCAGC ACCGCUGGGCAUCGACUGUGGG AAGGAGCUGUGCUG
AC_000159.1_2374	TGTGGG AAGGAG CTGTGCT G	AC_0 0015 9.1_2 374	GUGAAGUUACUGCUACGUCAGC ACCGCUGGGCAUCGACUGUGGG AAGGAGCUGUGCUG
AC_000160.1_2434*	AAAGCC CAAATG AACTTTT TGG	AC_0 0016 0.1_2 434	GAAAGUUUGUUGGGGUUUUUCU GUCACAUUUAACAGAAAAGCCC AAAUGAACUUUUUGG
AC_000160.1_2434	GAAAGT	AC_0	GAAAGUUUGUUGGGGUUUUUCU

	TTGTTGG GGTTTTT CT	0016 0.1_2 434	GUCACAUUUAACAGAAAAGCCC AAAUGAACUUUUUGG
AC_000160.1_2441*	ACACTTT TTTAGGC TCACTTG T	AC_0 0016 0.1_2 441	ACACUUUUUUAGGCUCACUUGU UCAGUCGCACUGUGGGGCGGGA GGGACGCU
AC_000160.1_2441	CTGTGG GGCGGG AGGGAC GCT	AC_0 0016 0.1_2 441	ACACUUUUUUAGGCUCACUUGU UCAGUCGCACUGUGGGGCGGGA GGGACGCU
AC_000160.1_2452	AAACCT GAACAA CCTTTTT GGC	AC_0 0016 0.1_2 452	AAAUGUUCUUUUGGGUUUUUUU UCAAUAGAUGUUACAGGAAAA CCUGAACCAACCUUUUUGGC
AC_000160.1_2452*>AC_00 0158.1_789>AC_000163.1_6 322	AAATGTT CTTTTGG GTTTTT	AC_0 0016 0.1_2 452	AAAUGUUCUUUUGGGUUUUUUU UCAAUAGAUGUUACAGGAAAA CCUGAACCAACCUUUUUGGC
AC_000160.1_2486	CCTGCTT CTGGGT CGGGTT	AC_0 0016 0.1_2 486	CCUGCUUCUGGGUCGGGUUUUG UACGCAGCAGAGCAGCUCCCUC ACUGCAACCUAUUGAAAGUCAG CCCU
AC_000160.1_2486*	CTATTGA AAGTCA GCCCT	AC_0 0016 0.1_2 486	CCUGCUUCUGGGUCGGGUUUUG UACGCAGCAGAGCAGCUCCCUC ACUGCAACCUAUUGAAAGUCAG CCCU
AC_000160.1_2528	ATGGAAT GGAATT	AC_0 0016	AUGGAAUGGAAUUAGGGUAGCA GGCACUGGACCCAUCCUUGACG



	AGGGTA GCAGG	0.1_2 528	ACUCCCUGGGUCCUCUAUCCCUA UUCCCAUUCCAGGC
AC_000160.1_2528*	CTCTATC CCTATTC CCATTCC AGGC	AC_0 0016 0.1_2 528	AUGGAAUGGAAUUAGGGUAGCA GGCACUGGACCCAUCCUUGACG ACUCCCUGGGUCCUCUAUCCCUA UUCCCAUUCCAGGC
AC_000160.1_2543	AAGGAG TGGGGA AGGGAG GT	AC_0 0016 0.1_2 543	CUCCCUCCCCUCUCCAGUGUG UGGGGAAAAGCAAGGAGUGGGG AAGGGAGGU
AC_000160.1_2543*	CTCCCTC CCCCTCT CCCA	AC_0 0016 0.1_2 543	CUCCCUCCCCUCUCCAGUGUG UGGGGAAAAGCAAGGAGUGGGG AAGGGAGGU
AC_000160.1_2571*	CTGGCC CGCCCC CCACCA GG	AC_0 0016 0.1_2 571	CUGGCCCGCCCCCACCAGGAAG UGACCGAAAACCUGGAGCGGGA GCUGGUUAGCG
AC_000160.1_2571	TGGAGC GGGAGC TGGTTA GCG	AC_0 0016 0.1_2 571	CUGGCCCGCCCCCACCAGGAAG UGACCGAAAACCUGGAGCGGGA GCUGGUUAGCG
AC_000160.1_2772	AAAGGT TCTTTTG GGTTTT	AC_0 0016 0.1_2 772	AAAGGUUCUUUUGGGUUUUGGG GAAAACUCCGAACAAACUUUUC G
AC_000160.1_2772*	AACTCC GAACAA ACTTTTC	AC_0 0016 0.1_2	AAAGGUUCUUUUGGGUUUUGGG GAAAACUCCGAACAAACUUUUC G

	G	772	
AC_000160.1_2939*	CAGTGC CTAGAA AATCCC ATGGA	AC_0 0016 0.1_2 939	CAGUGCCUAGAAAAUCCCAUGG AUGGACAGAGGAGCCUGGCAGG CUACAGUCCGUGGGGUUGUAGA GAGAUGGA
AC_000160.1_2939	CGTGGG GTTGTA GAGAGA TGGA	AC_0 0016 0.1_2 939	CAGUGCCUAGAAAAUCCCAUGG AUGGACAGAGGAGCCUGGCAGG CUACAGUCCGUGGGGUUGUAGA GAGAUGGA
AC_000160.1_2973	AAAAAC CTGAAT GACCCT TTT	AC_0 0016 0.1_2 973	AAGGUUCAUUUGGGUUUCUCCA UGCCAUCUUACGGAAAAACCUG AAUGACCCUUUU
AC_000160.1_2973*	AAGGTT CATTTGG GTTTCTC C	AC_0 0016 0.1_2 973	AAGGUUCAUUUGGGUUUCUCCA UGCCAUCUUACGGAAAAACCUG AAUGACCCUUUU
AC_000160.1_3063*	CAGCCT GGAGCT GACCAC CGCACA ACG	AC_0 0016 0.1_3 063	CAGCCUGGAGCUGACCACCGCAC AACGGGGUGAGCAGGUGGUGAG GGGCUGGG
AC_000160.1_3063	GTGAGC AGGTGG TGAGGG GCTGGG	AC_0 0016 0.1_3 063	CAGCCUGGAGCUGACCACCGCAC AACGGGGUGAGCAGGUGGUGAG GGGCUGGG
AC_000160.1_3064*	CTGACC CTCCCCT CCTGCTC	AC_0 0016 0.1_3	UGAGCAGGUGGUGAGGGGCUGG GAGCAGCCAUCAGGAUCCAGGC UGGCCUCCGGGGCCCUCCUGAC

	GCT	064	CCUCCCCUCCUGCUCGCU
AC_000160.1_3064	TGAGCA GGTGGT GAGGGG CTG	AC_0 0016 0.1_3 064	UGAGCAGGUGGUGAGGGGCUGG GAGCAGCCAUCAGGAUCCAGGC UGGCCUCCGGGGCCCUCCUGAC CCUCCCCUCCUGCUCGCU
AC_000160.1_3081	AGGCTG AGGACT GACGGG	AC_0 0016 0.1_3 081	AGGCUGAGGACUGACGGGUUCC GAGAGUCUUCCUGU
AC_000160.1_3081*	CGAGAG TCTTCCC TGT	AC_0 0016 0.1_3 081	AGGCUGAGGACUGACGGGUUCC GAGAGUCUUCCUGU
AC_000160.1_3086*	ACACAC TTCTGTT GTGCCT ACA	AC_0 0016 0.1_3 086	CAGGCACAACUGAAGCGUCUCA GCACACACACUUCUGUUGUGCC UACA
AC_000160.1_3086	CAGGCA CAACTG AAGCGT CTCA	AC_0 0016 0.1_3 086	CAGGCACAACUGAAGCGUCUCA GCACACACACUUCUGUUGUGCC UACA
AC_000160.1_3090	TAGGGC AGGGCG AGGGCG GG	AC_0 0016 0.1_3 090	UAGGGCAGGGCGAGGGCGGGUG AUUCACGUGCCCCAUUCCCCUG CCCUCGC
AC_000160.1_3090*	TGCCCC ATTTCCC CTGCCCT CGC	AC_0 0016 0.1_3 090	UAGGGCAGGGCGAGGGCGGGUG AUUCACGUGCCCCAUUCCCCUG CCCUCGC

AC_000160.1_3134*	GCTGTC CCAGAT GTCCCC	AC_0 0016 0.1_3 134	GGGCCUGGAGGACAGCGGGACC UGGAGGGCACAGUGGUACCCAG UCUGGUCCUCAGGUGUGUGCUG UCCCAGAUGUCCCC
AC_000160.1_3134	GGGCCT GGAGGA CAGCGG	AC_0 0016 0.1_3 134	GGGCCUGGAGGACAGCGGGACC UGGAGGGCACAGUGGUACCCAG UCUGGUCCUCAGGUGUGUGCUG UCCCAGAUGUCCCC
AC_000181.1_22204>AC_00 0160.1_3149	ACATGG GACTGT GGGAAA GGCA	AC_0 0016 0.1_3 149	ACAUGGGACUGUGGGAAAGGCA GCCCCCUCCCCCUCCAGAGGA CUUGUUGAUUUACUGGGAAGGC UGAGUCCCAUAUGUCUCCUCCA C
AC_000160.1_3149*	TGAGTC CCATATG TCTCCTC CAC	AC_0 0016 0.1_3 149	ACAUGGGACUGUGGGAAAGGCA GCCCCCUCCCCCUCCAGAGGA CUUGUUGAUUUACUGGGAAGGC UGAGUCCCAUAUGUCUCCUCCA C
AC_000160.1_3191	AAAACG TTCGTTC AGGTTTT T	AC_0 0016 0.1_3 191	AAAACGUUCGUUCAGGUUUUUC CACAGCAUCUUAUGGGAAAACU CGAAGAACUUUCUGG
AC_000160.1_3191*	AAACTC GAAGAA CTTTCTG G	AC_0 0016 0.1_3 191	AAAACGUUCGUUCAGGUUUUUC CACAGCAUCUUAUGGGAAAACU CGAAGAACUUUCUGG
AC_000160.1_3200	ACTGGG CAGGGG AACGTG	AC_0 0016 0.1_3	CGCCGCCGUCCCAGGACUAGUCA CCGAGUUACUGGGCAGGGGAAC GUG

		200	
AC_000160.1_3200*	CGCCGC CGTCCC AGGAC	AC_0 0016 0.1_3 200	CGCCGCCGUCCCAGGACUAGUCA CCGAGUUACUGGGCAGGGGAAC GUG
AC_000160.1_3228*	CCCAGG AGGCGC CACTGC C	AC_0 0016 0.1_3 228	CCCAGGAGGCGCCACUGCCUGG UAGGUGGAGGGUUACCCGGCCU GAAGGCGGGUGGGCGGAGCGGG AC
AC_000160.1_3228	CGGGTG GGCGGA GCGGGA C	AC_0 0016 0.1_3 228	CCCAGGAGGCGCCACUGCCUGG UAGGUGGAGGGUUACCCGGCCU GAAGGCGGGUGGGCGGAGCGGG AC
AC_000160.1_3283*	CATTTCT CTGCTG CTGTCCC CA	AC_0 0016 0.1_3 283	GCUGGACUCAGUGGGGAUGUGG GCUGCUAAGCGUUAAGUCCA UCUCUGCUGCUGUCCCCA
AC_000160.1_3283	GCTGGA CTCAGT GGGGAT GTGGG	AC_0 0016 0.1_3 283	GCUGGACUCAGUGGGGAUGUGG GCUGCUAAGCGUUAAGUCCA UCUCUGCUGCUGUCCCCA
AC_000160.1_3297	ACTGGG GGTTGA GAATGT CGCT	AC_0 0016 0.1_3 297	ACUGGGGGUUGAGAAUGUCGCU CUCUCAAGGCUGCCCUCCGGGC GUGAGAGCAGCAGGAGCAACAU UCUCAACCCCCAGGCU
AC_000160.1_3297*	CAACATT CTCAAC CCCCAG GCT	AC_0 0016 0.1_3 297	ACUGGGGGUUGAGAAUGUCGCU CUCUCAAGGCUGCCCUCCGGGC GUGAGAGCAGCAGGAGCAACAU UCUCAACCCCCAGGCU

AC_000160.1_3304*	CCCGAG CCCGAG CCCGGG A	AC_0 0016 0.1_3 304	CCCGAGCCCGAGCCCGGGAGCGC CGAGCCCGGCUAGGGUGAGUGA ACCGGGCGGGAGGCGAGGGCA
AC_000160.1_3304	CCGGGC GGGAGG CGAGGG CA	AC_0 0016 0.1_3 304	CCCGAGCCCGAGCCCGGGAGCGC CGAGCCCGGCUAGGGUGAGUGA ACCGGGCGGGAGGCGAGGGCA
AC_000160.1_3311	ATCCCA GCCGGG TCGAGG GACA	AC_0 0016 0.1_3 311	AUCCCAGCCGGGUCGAGGGACA GCCCUGGCGCGAUGGCUCCCUCG GAACCCGGCUGG
AC_000160.1_3311*	CTCCCTC GGAACC CGGCTG G	AC_0 0016 0.1_3 311	AUCCCAGCCGGGUCGAGGGACA GCCCUGGCGCGAUGGCUCCCUCG GAACCCGGCUGG
AC_000160.1_3320	TGAGGG GCAGAG AGAGAG AG	AC_0 0016 0.1_3 320	UUCAGUUUAUUGUUCUUUGGUA CUCACUGAGGGGCAGAGAGAGA GAG
AC_000160.1_3320*	TTCAGTT TATTGTT CTTTGGT	AC_0 0016 0.1_3 320	UUCAGUUUAUUGUUCUUUGGUA CUCACUGAGGGGCAGAGAGAGA GAG
AC_000160.1_3381	AAAGTT CGTTAA GGTTTTC	AC_0 0016 0.1_3 381	AAAGUUCGUUAAGGUUUUCCCU GAGACCUUAUUGGGCCACCC
AC_000160.1_3381*	AGACCT	AC_0	AAAGUUCGUUAAGGUUUUCCCU

	TATTGGG CCACCC	0016 0.1_3 381	GAGACCUUAUUGGGCCACCC
AC_000160.1_3398	CTGGGC TGTGGG GCATAG GCA	AC_0 0016 0.1_3 398	GAUGUGGCCUGCAGUGUGGCCU GUUGGGCCCUGGGCUGUGGGGC AUAGGCA
AC_000160.1_3398*	GATGTG GCCTGC AGTGTG GCC	AC_0 0016 0.1_3 398	GAUGUGGCCUGCAGUGUGGCCU GUUGGGCCCUGGGCUGUGGGGC AUAGGCA
AC_000160.1_3534	CTCGGG AGACAT GGCTGG	AC_0 0016 0.1_3 534	GGCCUCGGGCGGGGCUGGGGCC GUGGCAGGAAGCCGGAAGCAGC CGCGGCCCCAGCUCGGGAGACA UGGCUGG
AC_000160.1_3534*	GGCCTC GGGCGG GGCT	AC_0 0016 0.1_3 534	GGCCUCGGGCGGGGCUGGGGCC GUGGCAGGAAGCCGGAAGCAGC CGCGGCCCCAGCUCGGGAGACA UGGCUGG
AC_000160.1_3565	TGGGAT GAAGCA CTGGAG	AC_0 0016 0.1_3 565	UGGGAUGAAGCACUGGAGGCAG AAGAACUGGUUUGUAAACUGUA AAGCACAGUUUAAGGAAAUUGG GUGGGUUUGGACCACC
AC_000160.1_3565*	TGGGTG GGTTTG GACCAC C	AC_0 0016 0.1_3 565	UGGGAUGAAGCACUGGAGGCAG AAGAACUGGUUUGUAAACUGUA AAGCACAGUUUAAGGAAAUUGG GUGGGUUUGGACCACC
AC_000160.1_3602	AAAGAG GACCCA	AC_0 0016	GUGUCUAUUUGUGGGCCCUCUG UUAGGAAAGAGGACCCACAAAG

	CAAAGA CACAT	0.1_3 602	ACACAU
AC_000160.1_3602*	GTGTCTA TTTGTGG GCCCTCT GTTA	AC_0 0016 0.1_3 602	GUGUCUAUUUGUGGGCCCUCUG UUAGGAAAGAGGACCCACAAAG ACACAU
AC_000160.1_3613	AAAAAG TTCGTAC AGGTTTT T	AC_0 0016 0.1_3 613	AAAAAGUUCGUACAGGUUUUUC UGUACUAUCUUACCGGAAAACU UGUACGAAUUUUUUU
AC_000160.1_3613*	GAAAAC TTGTACG AATTTTT TT	AC_0 0016 0.1_3 613	AAAAAGUUCGUACAGGUUUUUC UGUACUAUCUUACCGGAAAACU UGUACGAAUUUUUUU
AC_000160.1_3625*	AAACCC CAAAGG AACTTTT TGG	AC_0 0016 0.1_3 625	GAAAAGUUCGUUCGAGUUUUC AUAAGAUGGUAGAAAAACCCC AAAGGAACUUUUUGG
AC_000160.1_3625	GAAAAG TTCGTTC GAGTTTT C	AC_0 0016 0.1_3 625	GAAAAGUUCGUUCGAGUUUUC AUAAGAUGGUAGAAAAACCCC AAAGGAACUUUUUGG
AC_000160.1_3639*	GCCAGG TTAGGC AAGGTG CCAG	AC_0 0016 0.1_3 639	UGUAUCCUGCCGACUACGCCAA CUAUCUCACUGUUCACUGAAGC CAGGUUAGGCAAGGUGCCAG
AC_000160.1_3639	TGTATCC TGCCGA CTACGC	AC_0 0016 0.1_3	UGUAUCCUGCCGACUACGCCAA CUAUCUCACUGUUCACUGAAGC CAGGUUAGGCAAGGUGCCAG



	CA	639	
AC_000160.1_3660*	ACTTGC CCTCATG C	AC_0 0016 0.1_3 660	ACUUGCCCACUCAUCCCUUCCUC AUGCUGCGCCUGCCUGGGUGGG ACUAGAGGGCAGGUCA
AC_000160.1_3660	CTGGGT GGGACT AGAGGG CAGGTC A	AC_0 0016 0.1_3 660	ACUUGCCCACUCAUCCCUUCCUC AUGCUGCGCCUGCCUGGGUGGG ACUAGAGGGCAGGUCA
AC_000160.1_3796	AGGTCT GAGTGG GCGAGG CC	AC_0 0016 0.1_3 796	CCACGCCCACCAUGCCCUGGCCG CCGCCUCACUGGCCAGGUCUGA GUGGGCGAGGCC
AC_000160.1_3796*	CCACGC CCACCAT GCCCTG G	AC_0 0016 0.1_3 796	CCACGCCCACCAUGCCCUGGCCG CCGCCUCACUGGCCAGGUCUGA GUGGGCGAGGCC
AC_000161.1_3824*	ACAGCC TGCACT GCTCTG ATAG	AC_0 0016 1.1_3 824	AUGUGGGCUGUGGGGGCAGGUG GCGCCGGCUCGGUAAAGCAGGC UACAGCCUGCACUGCUCUGAUA G
AC_000161.1_3824	ATGTGG GCTGTG GGGGCA GGTGG	AC_0 0016 1.1_3 824	AUGUGGGCUGUGGGGGCAGGUG GCGCCGGCUCGGUAAAGCAGGC UACAGCCUGCACUGCUCUGAUA G
AC_000161.1_3847	ACACTG TTCTTGT	AC_0 0016	GUCAUUCUGCAAGGAUCCAAUG AUGUCGAACUUGUUGCCGAGGG

	AGATGG CTG	1.1_3 847	CAACAGCAGAUUCACUUACACU GUUCUUGUAGAUGGCUG
AC_000161.1_3847*	GTCATTC TGCAAG GATCCA ATGA	AC_0 0016 1.1_3 847	GUCAUUCUGCAAGGAUCCAAUG AUGUCGAACUUGUUGCCGAGGG CAACAGCAGAUUCACUUACACU GUUCUUGUAGAUGGCUG
AC_000161.1_3902*	GCCGGC CGCCGT GGGGGG GCTGC	AC_0 0016 1.1_3 902	GGCCUCGCCGGGCCGCGCCGCGC GCGCGCCGUGAGGUCAUCGGCG CCGCCGCCGGGCCCGUGGGGGG GCUGC
AC_000161.1_3902	GGCCTC GCCGGG CCGCGC CGCGC	AC_0 0016 1.1_3 902	GGCCUCGCCGGGCCGCGCCGCGC GCGCGCCGUGAGGUCAUCGGCG CCGCCGCCGGGCCCGUGGGGGG GCUGC
AC_000161.1_3987*	ACTCCCT GACTGC CGAGCT	AC_0 0016 1.1_3 987	ACUCCCUGACUGCCGAGCUUCCU AUCCGGAUAGCUGGCAGGAUUAU GGAGUCU
AC_000161.1_3987	CTGGCA GGATATG GAGTCT	AC_0 0016 1.1_3 987	ACUCCCUGACUGCCGAGCUUCCU AUCCGGAUAGCUGGCAGGAUUAU GGAGUCU
AC_000161.1_3996	ATATGGA GGCACT AAAAAT TT	AC_0 0016 1.1_3 996	AUAUGGAGGCACUAAAAUUUA AUUUGACGCCAAAAUUAAAAUU UCAGUGCCUCCAUCUAG
AC_000161.1_3996*	ATTTTCA GTGCCT CCATCTA	AC_0 0016 1.1_3	AUAUGGAGGCACUAAAAUUUA AUUUGACGCCAAAAUUAAAAUU UCAGUGCCUCCAUCUAG

	G	996	
AC_000161.1_4103*	AAAAAG TTTGTTT AAGTTTT TC	AC_0 0016 1.1_4 103	AAAAAGUUUGUUUAAGUUUUUC CGUAAGAUGCAAUGGAAAAACA UGAACAAGCUUUUUGG
AC_000161.1_4103	AAAACA TGAACA AGCTTTT TGG	AC_0 0016 1.1_4 103	AAAAAGUUUGUUUAAGUUUUUC CGUAAGAUGCAAUGGAAAAACA UGAACAAGCUUUUUGG
AC_000161.1_4204	CCTGGG GATGTGT GGGGGC TT	AC_0 0016 1.1_4 204	CCUGGGGAUGUGUGGGGGCUUU CUGGUGGCAUGGACUGGGAGAA AGCUAUUGCAACGGGGCAAGGG GU
AC_000161.1_4204*	GCTATTG CAACGG GGCAAG GGGT	AC_0 0016 1.1_4 204	CCUGGGGAUGUGUGGGGGCUUU CUGGUGGCAUGGACUGGGAGAA AGCUAUUGCAACGGGGCAAGGG GU
AC_000161.1_4207	AAAAGT TCATTCA GGTTTTT T	AC_0 0016 1.1_4 207	AAAAGUUCAUUCAGGUUUUUUA UACCAUCUUACAAAAACCCAGA UGACCUUUUUG
AC_000161.1_4207*	AAACCC AGATGA CCTTTTT G	AC_0 0016 1.1_4 207	AAAAGUUCAUUCAGGUUUUUUA UACCAUCUUACAAAAACCCAGA UGACCUUUUUG
AC_000161.1_4263*	CCCCCC ACTGCT AAATTTG ACTGGC	AC_0 0016 1.1_4 263	GGCUGGUCCGAUGGUAGUGGGU UACCAGAACUUAUUAACGUUAG UGUCACUAAAGUUGGUAUACAA CCCCCACUGCUAAAUUUGACU

	TT		GGCUU
AC_000161.1_4263	GGCTGG TCCGATG GTAGTG GGTTAC	AC_0 0016 1.1_4 263	GGCUGGUCCGAUGGUAGUGGGU UACCAGAACUUAUUAACGUUAG UGUCACUAAAGUUGGUAUACAA CCCCCACUGCUAAAUUUGACU GGCUU
AC_000161.1_4276*	CCTCAG GTCCCC CTCCAA CC	AC_0 0016 1.1_4 276	CGGGGUGGGGGGGCGGCGAGGG GCGGGGUGGGGAGCGGUGCCCA CGCUGCCUCUCUCCUCAGGUCCC CCUCCAACC
AC_000161.1_4276	CGGGGT GGGGGG GCGGCG	AC_0 0016 1.1_4 276	CGGGGUGGGGGGGCGGCGAGGG GCGGGGUGGGGAGCGGUGCCCA CGCUGCCUCUCUCCUCAGGUCCC CCUCCAACC
AC_000161.1_4278	AAAGAA GTTTGT TGGGTTT TT	AC_0 0016 1.1_4 278	AAAGAAGUUUGUUUGGGUUUUU CUGUAAGUAUGGAAAUCCUCCA AUGAACUUUUUGGC
AC_000161.1_4278*	ATCCTCC AATGAA CTTTTTG GC	AC_0 0016 1.1_4 278	AAAGAAGUUUGUUUGGGUUUUU CUGUAAGUAUGGAAAUCCUCCA AUGAACUUUUUGGC
AC_000161.1_4396*	ACAAGT ATCCCAT TGCTCTA C	AC_0 0016 1.1_4 396	ACAAGUAUCCCAUUGCUCUACA GUGACUGUGUGUUGAGAGCGAU GGGACACUUGUAA
AC_000161.1_4396	AGAGCG ATGGGA CACTTGT	AC_0 0016 1.1_4	ACAAGUAUCCCAUUGCUCUACA GUGACUGUGUGUUGAGAGCGAU GGGACACUUGUAA

	AA	396	
AC_000161.1_4416*	TCATCTC CAGTTG AGGCAG G	AC_0 0016 1.1_4 416	UCAUCUCCAGUUGAGGCAGGAA CCUCAGAGUUCCUCUGAUUUCA GACUCCGCUCACAGGGUCCCUGC AGAUUGGGGACAGGAGA
AC_000161.1_4416	TGCAGA TTGGGG ACAGGA GA	AC_0 0016 1.1_4 416	UCAUCUCCAGUUGAGGCAGGAA CCUCAGAGUUCCUCUGAUUUCA GACUCCGCUCACAGGGUCCCUGC AGAUUGGGGACAGGAGA
AC_000161.1_4496	ACCAGA ACGGAC TTTTTGG CCA	AC_0 0016 1.1_4 496	GCCAAAAAGUCCAUUCUGGGUU UUAUAACAUCUUACAAAAAACC AGAACGGACUUUUUGGCCA
AC_000161.1_4496*	GCCAAA AAGTCC ATTCTGG GTT	AC_0 0016 1.1_4 496	GCCAAAAAGUCCAUUCUGGGUU UUAUAACAUCUUACAAAAAACC AGAACGGACUUUUUGGCCA
AC_000161.1_4529*	CCTCTGC CTTGCTC CCAGT	AC_0 0016 1.1_4 529	UCAGGAGUUUGGGUAGAGUGGA GGCUACCCAGACAGGGCUCUUC UGGGUUUCUGACCUCCCUCUGC CUUGCUCCCAGU
AC_000161.1_4529>AC_000 161.1_4530	TCAGGA GTTTGG GTAGAG TGG	AC_0 0016 1.1_4 529	UCAGGAGUUUGGGUAGAGUGGA GGCUACCCAGACAGGGCUCUUC UGGGUUUCUGACCUCCCUCUGC CUUGCUCCCAGU
AC_000161.1_4529>AC_000 161.1_4530	TCAGGA GTTTGG GTAGAG TGG	AC_0 0016 1.1_4 530	UCUUUUGAAAGAAGUCCUCAGU GACUGGCCCCAGUAAAGCUCAG GAGUUUGGGUAGAGUGG

AC_000161.1_4530*	TCTTTTG AAAGAA GTCCTC AGT	AC_0 0016 1.1_4 530	UCUUUUGAAAGAAGUCCUCAGU GACUGGCCCCAGUAAAGCUCAG GAGUUUGGGUAGAGUGG
AC_000161.1_4598	TATGGA GGAAGA GGAGAA GGCA	AC_0 0016 1.1_4 598	UCUCUCCUCCCACACCAUACCCC CGACUCCAAACAAAGGAGGUAU GGAGGAAGAGGAGAAGGCA
AC_000161.1_4598*	TCTCTCC TCCCAC ACCATAC C	AC_0 0016 1.1_4 598	UCUCUCCUCCCACACCAUACCCC CGACUCCAAACAAAGGAGGUAU GGAGGAAGAGGAGAAGGCA
AC_000161.1_4601*	CAGCCA TGCACC GCCTCG CCCGC	AC_0 0016 1.1_4 601	GGGCGCGCGCCGCGGCUGGAGC GGCGGGGAGAGGCCGGGCCACC UCCCCCUUCCCAGCCAUGCACC GCCUCGCCCCGC
AC_000161.1_4601	GGGCGC GCGCCG CGGCTG GA	AC_0 0016 1.1_4 601	GGGCGCGCGCCGCGGCUGGAGC GGCGGGGAGAGGCCGGGCCACC UCCCCCUUCCCAGCCAUGCACC GCCUCGCCCCGC
AC_000161.1_4647*	CCCCGA CCAGGG ATTGAA CCTGCG TT	AC_0 0016 1.1_4 647	UGCAGGAUCUUUCGUUGUGGUG CGUGGGAUCAGCUGCUCACAGG CAUAUGGGAUCUUAGUUCCTCCG ACCAGGGAUUGAACCUGCGUU
AC_000161.1_4647>AC_000 180.1_21834	TGCAGG ATCTTTC GTTGTG GTG	AC_0 0016 1.1_4 647	UGCAGGAUCUUUCGUUGUGGUG CGUGGGAUCAGCUGCUCACAGG CAUAUGGGAUCUUAGUUCCTCCG ACCAGGGAUUGAACCUGCGUU

AC_000167.1_11053*>AC_000170.1_12965>AC_000159.1_2216>AC_000161.1_4718	AAACTT GAATGA ACCTTTT GGCC	AC_0 0016 1.1_4 718	UCAAAAAGCUCAUUUCAACUUU UCUGUUACCUCUUUGGACAAA CUUGAAUGAACCUUUUGGCC
AC_000161.1_4718*	TCAAAA AGTCAT TTCAACT TTTCTGT	AC_0 0016 1.1_4 718	UCAAAAAGCUCAUUUCAACUUU UCUGUUACCUCUUUGGACAAA CUUGAAUGAACCUUUUGGCC
AC_000161.1_4727*	CCCTCCC TCTTTCT CTCTCT	AC_0 0016 1.1_4 727	GGUGGCGGGGGGAGGUCUCUCC CUUCCUCUCUCUCUCUUUCUCUC CCUCCCUCUUUCUCUCUCU
AC_000161.1_4727	GGTGGC GGGGGG AGGTCT	AC_0 0016 1.1_4 727	GGUGGCGGGGGGAGGUCUCUCC CUUCCUCUCUCUCUCUUUCUCUC CCUCCCUCUUUCUCUCUCU
AC_000162.1_4780*	AAACCT GAAAGG ACTTTTT G	AC_0 0016 2.1_4 780	AAACGUUCGUUAGGGUUUUCUG GUAACAUCUUAGGGAAAAACCU GAAAGGACUUUUUG
AC_000162.1_4780	AAACGT TCGTTAG GGTTTT	AC_0 0016 2.1_4 780	AAACGUUCGUUAGGGUUUUCUG GUAACAUCUUAGGGAAAAACCU GAAAGGACUUUUUG
AC_000162.1_4815	ACGGAC AGGATG AGCAGC GGGG	AC_0 0016 2.1_4 815	UCGGUGUUUACAUCUGUCCCC GACGCCUAGUCUACGUGGCUGG CUCCACGGACAGGAUGAGCAGC GGGG
AC_000162.1_4815*	TCGGTG	AC_0	UCGGUGUUUACAUCUGUCCCC

	TTTACAT CCTGTCC CCGA	0016 2.1_4 815	GACGCCUAGUCUACGUGGCUGG CUCCACGGACAGGAUGAGCAGC GGGG
AC_000162.1_4968*>AC_00 0162.1_4966*	AAACCC AAACAA ACCTTTT	AC_0 0016 2.1_4 966	AAGAUUCGUUCAGGUUUUUCCA UAAGAUCUUAUAGAAAAACCCA AACAAACCUUUU
AC_000162.1_4968>AC_000 162.1_4966	AAGATT CGTTCA GGTTTTT	AC_0 0016 2.1_4 966	AAGAUUCGUUCAGGUUUUUCCA UAAGAUCUUAUAGAAAAACCCA AACAAACCUUUU
AC_000162.1_4968*>AC_00 0162.1_4966*	AAACCC AAACAA ACCTTTT	AC_0 0016 2.1_4 968	AAGAUUCGUUCAGGUUUUUCCA UAACAUUUUUAUAGAAAAACCCA AACAAACCUUUU
AC_000162.1_4968>AC_000 162.1_4966	AAGATT CGTTCA GGTTTTT	AC_0 0016 2.1_4 968	AAGAUUCGUUCAGGUUUUUCCA UAACAUUUUUAUAGAAAAACCCA AACAAACCUUUU
AC_000162.1_5023	CAGGGA CTGGGG GATCGG GA	AC_0 0016 2.1_5 023	CCCUCCGGCCCCGUUCCUGAC CCCUCCCAGUGAGCAGCUCAGG GACUGGGGGAUCGGGA
AC_000162.1_5023*	CCCTCC GGCCCC GTTTCCC TGAC	AC_0 0016 2.1_5 023	CCCUCCGGCCCCGUUCCUGAC CCCUCCCAGUGAGCAGCUCAGG GACUGGGGGAUCGGGA
AC_000162.1_5076	AAAAAG GTCGTTC	AC_0 0016	AAAAAGGUCGUUCAGUUUUUU CAUAAGAUGUUAUGAAAAGCUG



	AGTTTTT T	2.1_5 076	GACAAAAUUUUUGG
AC_000162.1_5076*	AGCTGG ACAAAA TTTTTGG	AC_0 0016 2.1_5 076	AAAAAGGUCGUUCAGUUUUUUU CAUAAGAUGUUAUGAAAAGCUG GACAAAAUUUUUGG
AC_000162.1_5160*	TCGGCT CCCTGCT TTCCCCA GG	AC_0 0016 2.1_5 160	UGAGGGGCAGAGAGCCAGAGCU UGGAGUUUCGGCUCUCCUGCUUU CCCCAGG
AC_000162.1_5160	TGAGGG GCAGAG AGCCAG AG	AC_0 0016 2.1_5 160	UGAGGGGCAGAGAGCCAGAGCU UGGAGUUUCGGCUCUCCUGCUUU CCCCAGG
AC_000162.1_5212>AC_000 168.1_11192	AAATGTT CGTTCG GGTTTT	AC_0 0016 2.1_5 212	AAAUGUUCGUUCGGGUUUUCAC AUAAGAGGUGUGAAAAUCCUGA AUGAGCUUUUUG
AC_000162.1_5212*	AATCCTG AATGAG CTTTTTG	AC_0 0016 2.1_5 212	AAAUGUUCGUUCGGGUUUUCAC AUAAGAGGUGUGAAAAUCCUGA AUGAGCUUUUUG
AC_000162.1_5213*	AAACTC GAGCAA ACTTTTT GGC	AC_0 0016 2.1_5 213	AAAGGUUCAUUCGGGUUUUUC UUAAGAUGUUACAGAAAAACUC GAGCAAACUUUUUGGC
AC_000162.1_5213	AAAGGT TCATTCG GGTTTTT	AC_0 0016 2.1_5	AAAGGUUCAUUCGGGUUUUUC UUAAGAUGUUACAGAAAAACUC GAGCAAACUUUUUGGC

		213	
AC_000162.1_5246	AGAAGT AGGAGA GGGACT TGG	AC_0 0016 2.1_5 246	AGAAGUAGGAGAGGGACUUGGA GAGGAAACUUGGGAAAUGAGUG GGUUUUCAGGGUCUCUCUUCUA UUUCAGCUCC
AC_000162.1_5246*	GGGTCT CTCTTCT ATTCAG CTCC	AC_0 0016 2.1_5 246	AGAAGUAGGAGAGGGACUUGGA GAGGAAACUUGGGAAAUGAGUG GGUUUUCAGGGUCUCUCUUCUA UUUCAGCUCC
AC_000165.1_8809>AC_000178.1_20679>AC_000162.1_5284	TGGGGT GGGAGG ATGGAG AG	AC_0 0016 2.1_5 284	UGGGGUGGGAGGAUGGAGAGGU UCUAGGGGGUGCUUUUGCUCUCC ACGGGAUGCUIUUUUUGUIUUUUG UAAAUIUUU
AC_000162.1_5284*	TTTTGTT TTTGTA ATTTT	AC_0 0016 2.1_5 284	UGGGGUGGGAGGAUGGAGAGGU UCUAGGGGGUGCUUUUGCUCUCC ACGGGAUGCUIUUUUUGUIUUUUG UAAAUIUUU
AC_000162.1_5324*	CCCACA CCTTCCT ACTCT	AC_0 0016 2.1_5 324	GGUGGGGUGGUGAGGGGGGGGA GGCCCCAGGGUUAGCAAAGCUC CUCCUGCCCCCACACCUUCCUAC UCU
AC_000162.1_5324	GGTGGG GTGGTG AGGGGG	AC_0 0016 2.1_5 324	GGUGGGGUGGUGAGGGGGGGGA GGCCCCAGGGUUAGCAAAGCUC CUCCUGCCCCCACACCUUCCUAC UCU
AC_000162.1_5368>AC_000162.1_5367	CCGTGG GACAGA GTGGAA GGAGG	AC_0 0016 2.1_5 367	UCUCUGGGUCUCCAGUGGACCA GGCAGCCCCGAAGCUGGGGUCC CGCAGGGGCCGUGGGACAGAGU GGAAGGAGG

AC_000162.1_5367*	TCTCTGG GTCTCC AGTGGA C	AC_0 0016 2.1_5 367	UCUCUGGGUCUCCAGUGGACCA GGCAGCCCCGAAGCUGGGGUCC CGCAGGGGCCGUGGGACAGAGU GGAAGGAGG
AC_000162.1_5368>AC_000 162.1_5367	CCGTGG GACAGA GTGGAA GGAGG	AC_0 0016 2.1_5 368	CCGUGGGACAGAGUGGAAGGAG GAUCCGUGCUCACCAGGCCCUCC AUCCCCUCUUGCCCACCAGU
AC_000162.1_5368*	TCCATCC CCTCTTG CCCACC AGT	AC_0 0016 2.1_5 368	CCGUGGGACAGAGUGGAAGGAG GAUCCGUGCUCACCAGGCCCUCC AUCCCCUCUUGCCCACCAGU
AC_000162.1_5379*	AGCTCT GCCCC TGACCT GCT	AC_0 0016 2.1_5 379	AGCUCUGCCCCCUGACCUGCUGC CUCUCACUUCUCCUACUGGGGU UCCACAGGGAUUGGGGAGGGCA CU
AC_000162.1_5379	CAGGGA TTGGGG AGGGCA CT	AC_0 0016 2.1_5 379	AGCUCUGCCCCCUGACCUGCUGC CUCUCACUUCUCCUACUGGGGU UCCACAGGGAUUGGGGAGGGCA CU
AC_000162.1_5388	CAGAAG GAGGGG GTGGTC GGC	AC_0 0016 2.1_5 388	CAGAAGGAGGGGGUGGUCGGCC GUGUCAGAACCCUGAGGUACCG UCCGCCCCCUCCCCUGGCU
AC_000162.1_5388*	CGTCCG CCCCCTC CCCTGG CT	AC_0 0016 2.1_5 388	CAGAAGGAGGGGGUGGUCGGCC GUGUCAGAACCCUGAGGUACCG UCCGCCCCCUCCCCUGGCU
AC_000162.1_5393*	CGCCAG	AC_0	CGCCAGAGGACCGGCCCCACAU

	AGGACC GGCGCC CACATG GG	0016 2.1_5 393	GGGGCAGAACAAAGGGAAGAAG CUCUAGCGGCGGCGGCGCCGGG GGGCGAG
AC_000162.1_5394>AC_000162.1_5393	CGGCGG CGGCGC CGGGGG GCGAG	AC_0 0016 2.1_5 393	CGCCAGAGGACCGGCGCCACAU GGGGCAGAACAAAGGGAAGAAG CUCUAGCGGCGGCGGCGCCGGG GGGCGAG
AC_000162.1_5394>AC_000162.1_5393	CGGCGG CGGCGC CGGGGG GCGAG	AC_0 0016 2.1_5 394	CGGCGGCGGCGCCGGGGGGCGA GGGCGGGCGGCGGGCGCCUACC UGGGUCUCCGCGGCUUCCUCCGC GGCU
AC_000162.1_5394*	GGTCTC CGCGGC TTCCTCC GCGGCT	AC_0 0016 2.1_5 394	CGGCGGCGGCGCCGGGGGGCGA GGGCGGGCGGCGGGCGCCUACC UGGGUCUCCGCGGCUUCCUCCGC GGCU
AC_000162.1_5412	AGGGCT GGAGGG GGCGGG	AC_0 0016 2.1_5 412	AGGGCUGGAGGGGGCGGGGUGG UCCUGAGCAUCUAGCCCCAU
AC_000162.1_5412*	GGTCCC TGAGCA TCTAGCC CCAT	AC_0 0016 2.1_5 412	AGGGCUGGAGGGGGCGGGGUGG UCCUGAGCAUCUAGCCCCAU
AC_000162.1_5436	CCTCGG ACAGTG CCAGGT	AC_0 0016 2.1_5 436	CCUCGGACAGUGCCAGGUUAGC CCACGCUUUCACAGGCGGGCGG CUGACUUUUCGCUUCCAAGGCC
AC_000162.1_5436*	TTTTCGC	AC_0	CCUCGGACAGUGCCAGGUUAGC

	TTCCAA GGCC	0016 2.1_5 436	CCACGCUUUCACAGGCGGGCGG CUGACUUUUCGCUUCCAAGGCC
AC_000162.1_5579*	AAAAAC CCGAAT GAACTT TTTG	AC_0 0016 2.1_5 579	AAAAUGUUCGUUGGGGUUUUUG CAUAAGAUGUUAUAGAAAAACC CGAAUGAACUUUUUG
AC_000162.1_5579	AAAATG TTCGTTG GGGTTTT T	AC_0 0016 2.1_5 579	AAAAUGUUCGUUGGGGUUUUUG CAUAAGAUGUUAUAGAAAAACC CGAAUGAACUUUUUG
AC_000162.1_5601*	AGAGCC AGTGGC CCCGCG GGAG	AC_0 0016 2.1_5 601	AGAGCCAGUGGCCCGCGGGAG CGGGAGCGGGGCAUGGCUGAA
AC_000162.1_5601	GGAGCG GGGCCA TGGCTG AA	AC_0 0016 2.1_5 601	AGAGCCAGUGGCCCGCGGGAG CGGGAGCGGGGCAUGGCUGAA
AC_000162.1_5630*	CAGTCC CCAACC TTTTTGG CACCAA GG	AC_0 0016 2.1_5 630	CAGUCCCCAACCUUUUUGGCACC AAGGACAGUUUUGUGGAAGUA AUUUUCCUUGGACUGGGGUGG GGGCAUGGUU
AC_000162.1_5630	TTGGAC TGGGGT GGGGGC ATGGTT	AC_0 0016 2.1_5 630	CAGUCCCCAACCUUUUUGGCACC AAGGACAGUUUUGUGGAAGUA AUUUUCCUUGGACUGGGGUGG GGGCAUGGUU
AC_000162.1_5661*	AAAACC	AC_0	AAAAGAUUUGUUUGGGUUUCC

	AAATGA ACTTTTT GGCT	0016 2.1_5 661	UGUAACAUCUUGCAGAAAAACC AAAUGAACUUUUUGGCU
AC_000162.1_5661>AC_000 172.1_14626	AAAAGA TTTGTTT GGGTTTT	AC_0 0016 2.1_5 661	AAAAGAUUUGUUUGGGUUUCC UGUAACAUCUUGCAGAAAAACC AAAUGAACUUUUUGGCU
AC_000162.1_5683*>AC_00 0184.1_24367*	ATCCCAC ATTTGCG TATGCCG AGCC	AC_0 0016 2.1_5 683	CUCGAGAAUAUGCGGGUGGACU CCUGAGGCUCGAUCCACAUUU GCGUAUGCCGAGCC
NW_003099755.1_27230>A C_000162.1_5683	CTCGAG AATATGC GGGTGG ACTCC	AC_0 0016 2.1_5 683	CUCGAGAAUAUGCGGGUGGACU CCUGAGGCUCGAUCCACAUUU GCGUAUGCCGAGCC
AC_000162.1_5707	TCCAGC GGTGGA GGTAGG AAT	AC_0 0016 2.1_5 707	UCCAGCGGUGGAGGUAGGAAUC UCUUCUCCUCUUGUGUUGAUGG UCCUGCCUGCCCAUCGCAGAU U
AC_000162.1_5707*	TTCCTGC CTGCCC ATCGCA GATT	AC_0 0016 2.1_5 707	UCCAGCGGUGGAGGUAGGAAUC UCUUCUCCUCUUGUGUUGAUGG UCCUGCCUGCCCAUCGCAGAU U
AC_000162.1_5742	CAGGAT GGAGAA GGTGGT AAACC	AC_0 0016 2.1_5 742	UUGAUCUCCUUUCCUCCUCUCC CCAGGAUGGAGAAGGUGGUAAA CC
AC_000162.1_5742*	TTGATCT CCTTTTC	AC_0 0016	UUGAUCUCCUUUCCUCCUCUCC CCAGGAUGGAGAAGGUGGUAAA

	CTCCTCT C	2.1_5 742	CC
AC_000162.1_5786	AGAGGA AACTCT GGTTGA GG	AC_0 0016 2.1_5 786	UAUUACCAUCCUUUUUCACAG AAGAGGAAACUCUGGUUGAGG
AC_000162.1_5786*	TATTACC ATTCCTT TTT	AC_0 0016 2.1_5 786	UAUUACCAUCCUUUUUCACAG AAGAGGAAACUCUGGUUGAGG
AC_000162.1_5872*	CCCAGG GTGCGG TTTCTCA CGAG	AC_0 0016 2.1_5 872	CCCAGGGUGCGGUUUCUCACGA GGUACGACGGCGAGGUCAGUGA GCCUAUCGUGGGGCGCCAGGGA AGUGGGGU
AC_000162.1_5872	CGTGGG GCGCCA GGGAAG TGGGGT	AC_0 0016 2.1_5 872	CCCAGGGUGCGGUUUCUCACGA GGUACGACGGCGAGGUCAGUGA GCCUAUCGUGGGGCGCCAGGGA AGUGGGGU
AC_000162.1_5884*	CACGTG CCTGTCC CTGCCTC GGCG	AC_0 0016 2.1_5 884	CACGUGCCUGUCCCUGCCUCGGC GGGUGAUUUGAGCCGAGGCUGG AGAACGGUGCAGA
AC_000162.1_5884	CGAGGC TGGAGA ACGGTG CAGA	AC_0 0016 2.1_5 884	CACGUGCCUGUCCCUGCCUCGGC GGGUGAUUUGAGCCGAGGCUGG AGAACGGUGCAGA
AC_000162.1_5970	CTCTGG GGGGAT CTGGGG	AC_0 0016 2.1_5	UGCUCAGGGCCCAGAUGUGCG ACCGCUGCUGAGCAGCCCUGCUC UGGGGGGAUCUGGGGACACU

	ACACT	970	
AC_000162.1_5970*	TGCTCC AGGGCC CAGATG TGCG	AC_0 0016 2.1_5 970	UGCUC CAGGGCCCAGAUGUGCG ACCGCUGCUGAGCAGCCCUGCUC UGGGGGGAUCUGGGGACACU
AC_000162.1_5982	GAGGGA CAAGGG GACAGC	AC_0 0016 2.1_5 982	UGUCAAGCUUCCUUUCAGGGGC CCUUCAGUGAUCUGGGGGCCAC AUUCUGGAGGGACAAGGGGACA GC
AC_000162.1_5982*	TGTCAA GCTTCCT TTCA	AC_0 0016 2.1_5 982	UGUCAAGCUUCCUUUCAGGGGC CCUUCAGUGAUCUGGGGGCCAC AUUCUGGAGGGACAAGGGGACA GC
AC_000162.1_5990	ATCCAC TCCTGA CACCA	AC_0 0016 2.1_5 990	GUGAUCCAGAAGUGAACUGCCA UCCACUCCUGACACCA
AC_000162.1_5990*	GTGATCC AGAAGT GAACTG C	AC_0 0016 2.1_5 990	GUGAUCCAGAAGUGAACUGCCA UCCACUCCUGACACCA
AC_000163.1_6167*	CCGCCG CGTATCA GTCCGC CAA	AC_0 0016 3.1_6 167	CCGCCGCGUAUCAGUCCGCCAAC GCCGCCGUCGCGAGCACAGGAC GAAUCUAAGGCUGAAGGCGGAC GGUU
AC_000163.1_6167	CTAAGG CTGAAG GCGGAC GGTT	AC_0 0016 3.1_6 167	CCGCCGCGUAUCAGUCCGCCAAC GCCGCCGUCGCGAGCACAGGAC GAAUCUAAGGCUGAAGGCGGAC GGUU



AC_000163.1_6257	TATAGTC AGGTGA ATAACA GGAA	AC_0 0016 3.1_6 257	UAUGUUAUUCACCUGACUAUUAU CUGGUGAUUAUAGUCAGGUGAAU AACAGGAA
AC_000163.1_6257*	TATGTTA TTCACCT GACTATA T	AC_0 0016 3.1_6 257	UAUGUUAUUCACCUGACUAUUAU CUGGUGAUUAUAGUCAGGUGAAU AACAGGAA
AC_000163.1_6296*	AAAAAC CCAAAC AAATTTT TTGGC	AC_0 0016 3.1_6 296	CAAAAAGUUCGUCCAGAUUUUU GUAUAUUUUUAUGGAAAAACCC AAACAAUUUUUUGGC
AC_000163.1_6296	CAAAAA GTTCGTC CAGATTT TT	AC_0 0016 3.1_6 296	CAAAAAGUUCGUCCAGAUUUUU GUAUAUUUUUAUGGAAAAACCC AAACAAUUUUUUGGC
AC_000160.1_2452*>AC_00 0158.1_789>AC_000163.1_6 322	AAATGTT CTTTTGG GTTTTT	AC_0 0016 3.1_6 322	AAAUGUUCUUUUGGGUUUUUCU GUAACAUCUUAUGGAAAAGCUC UAAUGAUCAUUUUU
AC_000163.1_6322*	AAGCTC TAATGAT CATTTTT	AC_0 0016 3.1_6 322	AAAUGUUCUUUUGGGUUUUUCU GUAACAUCUUAUGGAAAAGCUC UAAUGAUCAUUUUU
AC_000163.1_6338*	ACACCT AGATAA CCGAGC GG	AC_0 0016 3.1_6 338	UCGUGGGGGUCUGGACGGUCA CAUCUCCUGAGAAGGUGCGCU UGUUGUACACCUAGAUAACCGA GCGG
AC_000163.1_6338	TCGTGG	AC_0	UCGUGGGGGUCUGGACGGUCA

	GGGTCT GGACGG TC	0016 3.1_6 338	CAUCUCCCUGAGAAGGUGCGCU UGUUGUACACCUAGAUAAACCGA GCGG
AC_000163.1_6416	AAAACA CGAACA AACTTTT TGG	AC_0 0016 3.1_6 416	AAACGUUCGUUCAGGUUUUUCU AGAAUAUUUUGCAGGAAAACAC GAACAAACUUUUUGG
AC_000163.1_6416*	AAACGT TCGTTCA GGTTTTT	AC_0 0016 3.1_6 416	AAACGUUCGUUCAGGUUUUUCU AGAAUAUUUUGCAGGAAAACAC GAACAAACUUUUUGG
AC_000163.1_6432	AAAAAA TTTTGTT TGGGTTT TT	AC_0 0016 3.1_6 432	AAAAAAUUUUGUUUGGGUUUUU CCAUUAGAUGGUAUGGAAAACC CAAUGAACUUUUU
AC_000163.1_6432*	AAACCC AAATGA ACTTTTT	AC_0 0016 3.1_6 432	AAAAAAUUUUGUUUGGGUUUUU CCAUUAGAUGGUAUGGAAAACC CAAUGAACUUUUU
AC_000163.1_6437*	ACCTTCC CCCGTC CCTGCC C	AC_0 0016 3.1_6 437	ACCUUCCCCCGUCCCUGCCCUCG GUUGUUUGCAGGUGGGUGGGAA GGGACGGAGGUGGUGGUGA
AC_000163.1_6437	GAAGGG ACGGAG GTGGTG GTGA	AC_0 0016 3.1_6 437	ACCUUCCCCCGUCCCUGCCCUCG GUUGUUUGCAGGUGGGUGGGAA GGGACGGAGGUGGUGGUGA
AC_000163.1_6446>AC_000186.1_25044	AAAAGT TCTTTCG	AC_0 0016	AAAAGUUCUUUCGGUUUUCUG UACCGGCUUAUGGAAAACACA

	GGTTTT	3.1_6 446	AAUGAACUUUUUGGCCA
AC_000163.1_6446*	AACACA AATGAA CTTTTTG GCCA	AC_0 0016 3.1_6 446	AAAAGUUCUUUCGGGUUUUCUG UACCGGCUUAUGGAAAAACACA AAUGAACUUUUUGGCCA
AC_000163.1_6492	AGGCGA GATGGG TGGCTG	AC_0 0016 3.1_6 492	AGGCGAGAUGGGUGGCUGUCGC CGCUCCUGCUUCU
AC_000163.1_6492*	GCCGCT CCTGCTT CT	AC_0 0016 3.1_6 492	AGGCGAGAUGGGUGGCUGUCGC CGCUCCUGCUUCU
AC_000163.1_6559	AACAGG GATGAG CTATTGT TT	AC_0 0016 3.1_6 559	AACAGGGAUGAGCUAUUGUUUU AAUGCCUGGUAUUACAUUUCAU GACAUUAGCCCAUUCCUGUUUU
AC_000163.1_6559*	ACATTAG CCCATTC CTGTTTT	AC_0 0016 3.1_6 559	AACAGGGAUGAGCUAUUGUUUU AAUGCCUGGUAUUACAUUUCAU GACAUUAGCCCAUUCCUGUUUU
AC_000163.1_6568>NW_00 3097901.1_27167	CTTGTTG GGATACT GGGCGG T	AC_0 0016 3.1_6 568	UGCAAGCAGGCUCCCAUUUGCU AACCAAGACUUGUUGGGAUACU GGGCGGU
AC_000163.1_6568*>NW_0 03097901.1_27167*	TGCAAG CAGGCT CCCATT	AC_0 0016 3.1_6	UGCAAGCAGGCUCCCAUUUGCU AACCAAGACUUGUUGGGAUACU GGGCGGU

	GCT	568	
AC_000163.1_6623	ATGGGA CAGACA CACAGG TGAA	AC_0 0016 3.1_6 623	AUGGGACAGACACACAGGUGAA UUAACGACCACCAUGCUAGUUC ACCUAUGUGUCUGUCCCCAUUU A
AC_000163.1_6623*	CACCTAT GTGTCT GTCCCC ATTTA	AC_0 0016 3.1_6 623	AUGGGACAGACACACAGGUGAA UUAACGACCACCAUGCUAGUUC ACCUAUGUGUCUGUCCCCAUUU A
AC_000163.1_6638	AAGGAG GAGGAA GAGGCA	AC_0 0016 3.1_6 638	CCUCGACCUCUGGUGAAAAGG GACCUCCAAGAGGUGGUGGCAG GGGAGGUCAAGGAGGAGGAAGA GGCA
AC_000163.1_6638*	CCTCGA CCTCCTG GTGAA	AC_0 0016 3.1_6 638	CCUCGACCUCUGGUGAAAAGG GACCUCCAAGAGGUGGUGGCAG GGGAGGUCAAGGAGGAGGAAGA GGCA
AC_000163.1_6657	AAGGCA GGCAGA GTAGGG CTGT	AC_0 0016 3.1_6 657	AAGGCAGGCAGAGUAGGGCUGU GGAGGUUGCAUUAUGGCCCCUG CCCUUCCUGCCUGU
AC_000163.1_6657*	GGCCCC TGCCCTT CCTGCCT GT	AC_0 0016 3.1_6 657	AAGGCAGGCAGAGUAGGGCUGU GGAGGUUGCAUUAUGGCCCCUG CCCUUCCUGCCUGU
AC_000163.1_6683	ACCGGC GCAGCG GCTGAC CTGG	AC_0 0016 3.1_6 683	ACCGGCGCAGCGGCUGACCUGG GAAGGCACUGGCCCCGGGUUAC CGUCACGUCGGAG

AC_000163.1_6683*	GGGTTA CCGTCA CGTCGG AG	AC_0 0016 3.1_6 683	ACCGGCGCAGCGGCUGACCUGG GAAGGCACUGGCCCGGGUUAC CGUCACGUCGGAG
AC_000163.1_6809*	AAATCC ATACAA ATGTCTT GG	AC_0 0016 3.1_6 809	AAUAAGUUCGUUCAGGUUUUUC UGUUACAGCAUAUGGAAAAAUC CAUACAAAUGUCUUGG
AC_000163.1_6809	AATAAG TTCGTTC AGGTTTT T	AC_0 0016 3.1_6 809	AAUAAGUUCGUUCAGGUUUUUC UGUUACAGCAUAUGGAAAAAUC CAUACAAAUGUCUUGG
AC_000163.1_6897*	AAAAAC CTGAAC AAACGT TT	AC_0 0016 3.1_6 897	AAAAAGUUUGUUUGGAUUUUC UGUUACAUCUCAUGGAAAAAAC CUGAACAAACGUUU
AC_000163.1_6897>AC_000 158.1_917	AAAAAG TTTGTTT GGATTTT C	AC_0 0016 3.1_6 897	AAAAAGUUUGUUUGGAUUUUC UGUUACAUCUCAUGGAAAAAAC CUGAACAAACGUUU
AC_000163.1_6910	GAGGAT GAGGAC ACGGAG ACT	AC_0 0016 3.1_6 910	GCUCGUGGCUCAUCAGAUCAGA GAGCGUGGAAGCCAUGAGGAU GAGGACACGGAGACU
AC_000163.1_6910*	GCTCGT GGCTCAT CAGATC AG	AC_0 0016 3.1_6 910	GCUCGUGGCUCAUCAGAUCAGA GAGCGUGGAAGCCAUGAGGAU GAGGACACGGAGACU
AC_000163.1_6917	GACCTG	AC_0	GACCUGUGCGUGUACACUCAUG

	TGCGTG TACTCTC AT	0016 3.1_6 917	CCCACGUGCAUGAGUGUGCAUC CACGGGGACC
AC_000163.1_6917*	TGAGTG TGCATCC ACGGGG ACC	AC_0 0016 3.1_6 917	GACCUGUGCGUGUACACUCAUG CCCACGUGCAUGAGUGUGCAUC CACGGGGACC
AC_000163.1_6923	AAAAAG ATCGTTC AGGTTTT T	AC_0 0016 3.1_6 923	AAAAAGAUCGUUCAGGUUUUUC CAUCCCAUCUAUGGAAAAACCC AAAUGAAAUUUUUGG
AC_000163.1_6923*	AAACCC AAATGA AATTTTT GG	AC_0 0016 3.1_6 923	AAAAAGAUCGUUCAGGUUUUUC CAUCCCAUCUAUGGAAAAACCC AAAUGAAAUUUUUGG
AC_000163.1_6939*	TCACCC CTCCTGT TCCCGG ACG	AC_0 0016 3.1_6 939	UUUGGGGAUUGGGGGACGAUUU CCUCCCUGAUGGAAAGGAUGUG UGAGGAGCAAUCACCCCUCCUG UUCCCGGACG
AC_000163.1_6940>AC_000 163.1_6939	TTTGGG GATTGG GGGACG ATT	AC_0 0016 3.1_6 939	UUUGGGGAUUGGGGGACGAUUU CCUCCCUGAUGGAAAGGAUGUG UGAGGAGCAAUCACCCCUCCUG UUCCCGGACG
AC_000163.1_6940*	GTGACC CTGGTTC CTGAGG G	AC_0 0016 3.1_6 940	GUGACCCUGGUUCCUGAGGGAA AAGGAGAGGGUCCUUUGGGGAU UGGGGGACGAUU
AC_000163.1_6940>AC_000 163.1_6939	TTTGGG GATTGG	AC_0 0016	GUGACCCUGGUUCCUGAGGGAA AAGGAGAGGGUCCUUUGGGGAU

	GGGACG ATT	3.1_6 940	UGGGGGACGAUU
AC_000163.1_6943*	AAACCC GAGGGC CCTTTTT GG	AC_0 0016 3.1_6 943	AAAGAGUUCGUUCGGGUUUUUC CAU AACGUUUUACAGAAAAACC CGAGGGCCCUUUUUGG
AC_000163.1_6943	AAAGAG TTCGTTC GGGTTTT T	AC_0 0016 3.1_6 943	AAAGAGUUCGUUCGGGUUUUUC CAU AACGUUUUACAGAAAAACC CGAGGGCCCUUUUUGG
AC_000164.1_6965	GCTGGC AGACCC GGACTG	AC_0 0016 4.1_6 965	UUCCGCGUCUGCCCGCCCCGGCU CUUCCGGGUUCUCUCCACAACCC CACCUGGCGCUGGCAGACCCGG ACUG
AC_000164.1_6965*	TTCCGC GTCTGC CCGCCC	AC_0 0016 4.1_6 965	UUCCGCGUCUGCCCGCCCCGGCU CUUCCGGGUUCUCUCCACAACCC CACCUGGCGCUGGCAGACCCGG ACUG
AC_000164.1_7035*	GGTATTT ATTAGTT ATCTACT T	AC_0 0016 4.1_7 035	GGUAUUUAUUAGUUAUCUACUU UAUAUCUAGUAAUUAGAUAAACU AAUAAAAACCUG
AC_000164.1_7035	TTAGATA ACTAATA AAAACC TG	AC_0 0016 4.1_7 035	GGUAUUUAUUAGUUAUCUACUU UAUAUCUAGUAAUUAGAUAAACU AAUAAAAACCUG
AC_000164.1_7038*	CCCCCC CCTCCCC CCGCCC	AC_0 0016 4.1_7	UGGGCGGAGGUGGGGCAGGGGG CCCCCAAUGGGCUUGCCCCCCC CUCCCCCGCCUGC

	TGC	038	
AC_000164.1_7038	TGGGCG GAGGTG GGGCAG GGGGCC	AC_0 0016 4.1_7 038	UGGGCGGAGGUGGGGCAGGGGG CCCCCAAUGGGCUUGCCCCCCC CUCCCCCGCCCUGC
AC_000164.1_7040	AAAGCA GGGAGG GGGGCA GTTCT	AC_0 0016 4.1_7 040	AAAGCAGGGAGGGGGGCAGUUC UUCAUCUCCCGAGCCCAGCAGA GGGCUCUGGGAGGAACAGAGCG GCCCCAGGUGCUGAGU
AC_000164.1_7040*	AGCGGC CCCAGG TGCTGA GT	AC_0 0016 4.1_7 040	AAAGCAGGGAGGGGGGCAGUUC UUCAUCUCCCGAGCCCAGCAGA GGGCUCUGGGAGGAACAGAGCG GCCCCAGGUGCUGAGU
AC_000164.1_7050	TCTGCAT CCGAGG ACTCAA CC	AC_0 0016 4.1_7 050	UCUGCAUCCGAGGACUCAACCC AUUUGAUUGGCGGUUGGUUGAA UCCACAGAUGUGAGAC
AC_000164.1_7050*	TTGAATC CACAGA TGTGAG AC	AC_0 0016 4.1_7 050	UCUGCAUCCGAGGACUCAACCC AUUUGAUUGGCGGUUGGUUGAA UCCACAGAUGUGAGAC
AC_000164.1_7142*	AAAAAC CAGAGA GAACTT TTCG	AC_0 0016 4.1_7 142	AAAAGUUUGGUUGGGUUUUUCU GCACAAUCUUAAGAAAAACCA GAGAGAACUUUUCG
AC_000164.1_7142>AC_000 165.1_9210	AAAAGT TTGGTTG GGTTTTT CT	AC_0 0016 4.1_7 142	AAAAGUUUGGUUGGGUUUUUCU GCACAAUCUUAAGAAAAACCA GAGAGAACUUUUCG



AC_000164.1_7150*	CTCACCT CCCTCTC TTTCTCC AC	AC_0 0016 4.1_7 150	UGAGAUAGAGAAGGAUGGAGGU GCCCAGCUCUGCCACCUCACCUC CCUCUCUUUCUCCAC
AC_000164.1_7150	TGAGAT AGAGAA GGATGG AGGT	AC_0 0016 4.1_7 150	UGAGAUAGAGAAGGAUGGAGGU GCCCAGCUCUGCCACCUCACCUC CCUCUCUUUCUCCAC
AC_000164.1_7182*	CCCCT GGACAC CCCACC CCCTC	AC_0 0016 4.1_7 182	CGGGGACUGGGGCGGGGAGGGC GGAGUGACGCCACUGGACACC CCACCCCCUC
AC_000164.1_7182	CGGGGA CTGGGG CGGGGA GGGCG	AC_0 0016 4.1_7 182	CGGGGACUGGGGCGGGGAGGGC GGAGUGACGCCACUGGACACC CCACCCCCUC
AC_000164.1_7986*>AC_000164.1_7349*	AGTATTA TTCCATA CTTAAG G	AC_0 0016 4.1_7 349	AGUAUUAUCCAUACUUAAGGC UACGGUGGCUGUAGCCUUAAGU AUGGAAUAAUACUGU
AC_000164.1_7986>AC_000164.1_7349	TTAAGTA TGGAAT AATACTG T	AC_0 0016 4.1_7 349	AGUAUUAUCCAUACUUAAGGC UACGGUGGCUGUAGCCUUAAGU AUGGAAUAAUACUGU
AC_000164.1_7546	CAGAGT TCTACA GTCAGA	AC_0 0016 4.1_7 546	CAGAGUUCUACAGUCAGAGGAC UGUCUGAACGAGUGCUCUGUU
AC_000164.1_7546*	TGAACG	AC_0	CAGAGUUCUACAGUCAGAGGAC

	AGTGCT CTGTT	0016 4.1_7 546	UGUCUGAACGAGUGCUCUGUU
AC_000164.1_7566>AC_000180.1_21398	TGGCCA AAAAGG TCGTTTG GGT	AC_0 0016 4.1_7 566	UGGCCAAAAAGGUCGUUUGGGU UUUUCCAUAAGAACAUUCAUGG CAAACUUGAAUGUACUUUUUG GCCAAC
AC_000164.1_7566*	TTGAATG TACTTTT TGGCCA AC	AC_0 0016 4.1_7 566	UGGCCAAAAAGGUCGUUUGGGU UUUUCCAUAAGAACAUUCAUGG CAAACUUGAAUGUACUUUUUG GCCAAC
AC_000164.1_7600	AAAATG TTTGTTT GGATGTT TT	AC_0 0016 4.1_7 600	AAAUGUUUGUUUGGAUGUUUU GUAAUAGCUUAGAAAACACUCG AACAAACAUUUUGG
AC_000164.1_7600*	AACACT CGAACA AACATTT TGG	AC_0 0016 4.1_7 600	AAAUGUUUGUUUGGAUGUUUU GUAAUAGCUUAGAAAACACUCG AACAAACAUUUUGG
AC_000164.1_7629	TGCCCA CACGCG TACGCC AGCG	AC_0 0016 4.1_7 629	UGCCCACACGCGUACGCCAGCGU GACUUCACCUGCUGGUGUGUGC GUGUGGCUG
AC_000164.1_7629*	TGGTGT GTGCGT GTGGCT G	AC_0 0016 4.1_7 629	UGCCCACACGCGUACGCCAGCGU GACUUCACCUGCUGGUGUGUGC GUGUGGCUG
AC_000164.1_7631	CTGGAG GTGGCG	AC_0 0016	CUGGAGGUGGCGGCGGCGGCGG CGGCAGCGGCGGUGGCGACACG

	GCGGCG GCGGCG G	4.1_7 631	UCCCAGCC
AC_000164.1_7631*	GCGGCG GTGGCG ACACGT CCCAGC C	AC_0 0016 4.1_7 631	CUGGAGGUGGCGGCGGCGGCGG CGGCAGCGGCGGUGGCGACACG UCCCAGCC
AC_000164.1_7683*	TGACCT CCTGTCT CTGTCA CAG	AC_0 0016 4.1_7 683	UUUACGGAGAUGAGAGGUCAGA CUGGAGAUGGGUCAUAUCCA GUGGUUAUGGGUUAUUGUACUC UGACCUCCUGUCUCUGUCACAG
AC_000164.1_7683	TTTACGG AGATGA GAGGTC AGA	AC_0 0016 4.1_7 683	UUUACGGAGAUGAGAGGUCAGA CUGGAGAUGGGUCAUAUCCA GUGGUUAUGGGUUAUUGUACUC UGACCUCCUGUCUCUGUCACAG
AC_000164.1_7689*	CGGAGA GCTGGG TGCTGTC CTAC	AC_0 0016 4.1_7 689	UGGGCUGCACCUGGGUCUUCGG CCUGCUCCUCUUCGACCCGGAGA GCUGGGUGCUGUCCUAC
AC_000164.1_7689	TGGGCT GCACCT GGGTCT TCGGC	AC_0 0016 4.1_7 689	UGGGCUGCACCUGGGUCUUCGG CCUGCUCCUCUUCGACCCGGAGA GCUGGGUGCUGUCCUAC
AC_000164.1_7748*	CGGCCC TGGGCC CAATG	AC_0 0016 4.1_7 748	CGGCCCUGGGCCCAAUGGCCACA GCCACUUGCUGAAGGUAUGGGC AGGGGGUGGGGACCAUCAGGGC UGGGGAGUGGUG
AC_000164.1_7748	TCAGGG	AC_0	CGGCCCUGGGCCCAAUGGCCACA

	CTGGGG AGTGGT G	0016 4.1_7 748	GCCACUUGCUGAAGGUAUGGGC AGGGGGUGGGGACCAUCAGGGC UGGGGAGUGGUG
AC_000164.1_7842	AGAGAC ACCAGT AAAAGA GCTT	AC_0 0016 4.1_7 842	UGGCUCUUUUACUGGCGUCUCU CAGUGAUUUGUGUGUCUUUCA ACACUCUGAGAGACACCAGUAA AAGAGCUU
AC_000164.1_7842*	TGGCTCT TTTACTG GCGTC	AC_0 0016 4.1_7 842	UGGCUCUUUUACUGGCGUCUCU CAGUGAUUUGUGUGUCUUUCA ACACUCUGAGAGACACCAGUAA AAGAGCUU
AC_000164.1_7874	GCAACA CCCTGTC CCCCT AGT	AC_0 0016 4.1_7 874	UUGGUGGGGGCAGGGAGUUUCU GGCCUCCUUGAGCCCCAAAGCA ACACCCUGUCCCCACUAGU
AC_000164.1_7874*	TTGGTG GGGGCA GGGAGT T	AC_0 0016 4.1_7 874	UUGGUGGGGGCAGGGAGUUUCU GGCCUCCUUGAGCCCCAAAGCA ACACCCUGUCCCCACUAGU
AC_000164.1_7875	AAGGAA CTGCAC AGAGGA GACAT	AC_0 0016 4.1_7 875	AAGGAACUGCACAGAGGAGACA UUCAUGAAGGGGUUCUUGAAU GUUCCCUGCAGUCCUUUA
AC_000164.1_7875*	GTTCCCT GCAGTT CCTTTA	AC_0 0016 4.1_7 875	AAGGAACUGCACAGAGGAGACA UUCAUGAAGGGGUUCUUGAAU GUUCCCUGCAGUCCUUUA
AC_000164.1_7886*	GCAGCA CGAAGG	AC_0 0016	GCAGCACGAAGGCUCUCCAUC UUUACUGUGGCGUGAGGGAUCU

	CTCTTCC A	4.1_7 886	UUAGUUGUGGUAG
AC_000164.1_7886	TGAGGG ATCTTTA GTTGTG GTAG	AC_0 0016 4.1_7 886	GCAGCACGAAGGCUCUCCAUC UUUACUGUGGCGUGAGGGAUCU UUAGUUGUGGUAG
AC_000164.1_7897	ATGTGG AAGCTG ACCAGA GAT	AC_0 0016 4.1_7 897	AUGUGGAAGCUGACCAGAGAUG AGACCAACUAUGGUAUCCCACA GCGUGCUCUUCGGGGUCACUCC CACUUUGUUAGUGA
AC_000164.1_7897*	CGGGGT CACTCC CACTTTG TTAGTG A	AC_0 0016 4.1_7 897	AUGUGGAAGCUGACCAGAGAUG AGACCAACUAUGGUAUCCCACA GCGUGCUCUUCGGGGUCACUCC CACUUUGUUAGUGA
AC_000164.1_7910	CTCACA CACACC CACCCC CGCAGT	AC_0 0016 4.1_7 910	UGCAGGGGCAGGUGUGGGGGCA GGGGUGCCAAGCCUGCUCACAC ACACCCACCCCGCAGU
AC_000164.1_7910*	TGCAGG GGCAGG TGTGGG GGCA	AC_0 0016 4.1_7 910	UGCAGGGGCAGGUGUGGGGGCA GGGGUGCCAAGCCUGCUCACAC ACACCCACCCCGCAGU
AC_000164.1_7937	CAGTAG GGCTGG GGGCGG GACA	AC_0 0016 4.1_7 937	CAGUAGGGCUGGGGGCGGGACA GAGCUGGGCCAAGGUCAGGCUG GGUCAGGAUCCUGUCUUUGGUG CUAUUCUC
AC_000164.1_7937*	TCCTGTC TTTGGTG	AC_0 0016	CAGUAGGGCUGGGGGCGGGACA GAGCUGGGCCAAGGUCAGGCUG

	CTATTCT C	4.1_7 937	GGUCAGGAUCCUGUCUUUGGUG CUAUUCUC
AC_000164.1_7986*>AC_00 0164.1_7349*	AGTATTA TTCCATA CTTAAG G	AC_0 0016 4.1_7 986	AGUAUUAUCCAUACUUAAGGC UACAGCCACCGUAGCCUUAAGU AUGGAAUAAUACUGU
AC_000164.1_7986>AC_000 164.1_7349	TTAAGTA TGGAAT AATACTG T	AC_0 0016 4.1_7 986	AGUAUUAUCCAUACUUAAGGC UACAGCCACCGUAGCCUUAAGU AUGGAAUAAUACUGU
AC_000164.1_8001*	CCCTTCC ACCTCTA CCCCCC G	AC_0 0016 4.1_8 001	UGGGGCAGACUAGGAAAGGGUG GGCAGCCACCGACACCCUCCAC CUCUACCCCCCG
AC_000164.1_8001	TGGGGC AGACTA GGAAAG GGTG	AC_0 0016 4.1_8 001	UGGGGCAGACUAGGAAAGGGUG GGCAGCCACCGACACCCUCCAC CUCUACCCCCCG
AC_000164.1_8025*	ACTTTCA GCATGA GGATTCT TGGTC	AC_0 0016 4.1_8 025	UGAGGGAUUCUUAGUUGUGGUA UGCGCUCCUACUUUCAGCAUGA GGAUUCUUGGUC
AC_000164.1_8025	TGAGGG ATCTTTA GTTGTG GTAT	AC_0 0016 4.1_8 025	UGAGGGAUUCUUAGUUGUGGUA UGCGCUCCUACUUUCAGCAUGA GGAUUCUUGGUC
AC_000164.1_8148*	GGCAGA TAAAGC TTCCTC	AC_0 0016 4.1_8	UGAGGGAGUUGGGUGUGUGGUU CAGGCAGCGAUGUGAGCAAUGG GGAGUGAUGUGGGAUGGCAGAU

	ACT	148	AAAGCUUCACUCACU
AC_000164.1_8148	TGAGGG AGTTGG GTGTGT GGT	AC_0 0016 4.1_8 148	UGAGGGAGUUGGGUGUGUGGUU CAGGCAGCGAUGUGAGCAAUGG GGAGUGAUGUGGGAUGGCAGAU AAAGCUUCACUCACU
AC_000164.1_8192*	GCCGGA GGTCTG GCCTGC GCGCAG	AC_0 0016 4.1_8 192	GCCGGAGGUCUGGCCUGCGCGC AGUAUAUGACAGUACGUCAGCA GCGGGAUGGCCGUAGCUGUGGC GG
AC_000164.1_8192	GCGGGA TGGCCG TAGCTGT GGCGG	AC_0 0016 4.1_8 192	GCCGGAGGUCUGGCCUGCGCGC AGUAUAUGACAGUACGUCAGCA GCGGGAUGGCCGUAGCUGUGGC GG
AC_000165.1_8374*	AACCCA ACTGAA CTTTTTG GC	AC_0 0016 5.1_8 374	CAAUAAGUUUGUUUGGGUUUUU CUAUCAGAUGUAACAGAAAAAC CCAACUGAACUUUUUGGC
AC_000165.1_8374	CAATAA GTTTGTT TGGGTTT T	AC_0 0016 5.1_8 374	CAAUAAGUUUGUUUGGGUUUUU CUAUCAGAUGUAACAGAAAAAC CCAACUGAACUUUUUGGC
AC_000165.1_8428*	AAACCC TGAAGG AACTTTT TGA	AC_0 0016 5.1_8 428	AAGAAGUUCGUUCAGGUUUUUC CAUAUCUUACAAAAAACCUGA AGGAACUUUUUGA
AC_000165.1_8428	AAGAAG TTCGTTC AGGTTTT T	AC_0 0016 5.1_8 428	AAGAAGUUCGUUCAGGUUUUUC CAUAUCUUACAAAAAACCUGA AGGAACUUUUUGA

AC_000165.1_8454	CAGAGT AGGGGT CGGGTG GGA	AC_0 0016 5.1_8 454	CAGAGUAGGGGUCGGGUGGGAA AGGUGGCUCUCCUUGCCUUCCU GCCUGCCCCACCAUUCC
AC_000165.1_8454*	CTGCCT GCCCCA CCATTCC	AC_0 0016 5.1_8 454	CAGAGUAGGGGUCGGGUGGGAA AGGUGGCUCUCCUUGCCUUCCU GCCUGCCCCACCAUUCC
AC_000165.1_8533	CCTCTTC CAGCAC ACACCC AG	AC_0 0016 5.1_8 533	GGGUGUGUCUGGGACAGCCUUU CAGGCUAGGCCUCUUCCAGCAC ACACCCAG
AC_000165.1_8533*	GGGTGT GTCTGG GACAGC C	AC_0 0016 5.1_8 533	GGGUGUGUCUGGGACAGCCUUU CAGGCUAGGCCUCUUCCAGCAC ACACCCAG
AC_000165.1_8571	ACAGGA GGGCTG GGGGCG TG TTC	AC_0 0016 5.1_8 571	ACAUUACUAGCUGUCCUGUCCU UGGUGGACUGACGCAGAGGACA GGAGGGCUGGGGGCGUGUUC
AC_000165.1_8571*	ACATTAC TAGCTGT CCTGTCC	AC_0 0016 5.1_8 571	ACAUUACUAGCUGUCCUGUCCU UGGUGGACUGACGCAGAGGACA GGAGGGCUGGGGGCGUGUUC
AC_000165.1_8655	TGGCTG GTCTCTT CCCTGC AGT	AC_0 0016 5.1_8 655	UGGGGUUGACUCUAGCCAAGGC UCUGGGGUCUCAUCCUUGGCUG GUCUCUUCCCUGCAGU
AC_000165.1_8655*	TGGGGT	AC_0	UGGGGUUGACUCUAGCCAAGGC



	TGACTCT AGCCAA GGCT	0016 5.1_8 655	UCUGGGGUCUCAUCCUUGGCUG GUCUCUUCCCUGCAGU
AC_000165.1_8674*	AAAAAC CTGAAT GAACTT TCTG	AC_0 0016 5.1_8 674	GAAAGUUGGUUUGGAUUUUUCC AUUGCAUCUUACAGAAAAACCU GAAUGAACUUUCUG
AC_000165.1_8674	GAAAGT TGGTTTG GATTTTT CC	AC_0 0016 5.1_8 674	GAAAGUUGGUUUGGAUUUUUCC AUUGCAUCUUACAGAAAAACCU GAAUGAACUUUCUG
AC_000165.1_8682	CGCGGG GGAGGG AGGCAG GGGC	AC_0 0016 5.1_8 682	CGCGGGGGAGGGAGGCAGGGGC GGCUCCCGGGAUAAACUUGACU CUGUCCCCUCCCCCGCAGC
AC_000165.1_8682*	CTCTGTC CCCTTCC CCCGCA GC	AC_0 0016 5.1_8 682	CGCGGGGGAGGGAGGCAGGGGC GGCUCCCGGGAUAAACUUGACU CUGUCCCCUCCCCCGCAGC
AC_000165.1_8774*	CTGTTCT TCTCTTC CTCCAG G	AC_0 0016 5.1_8 774	UGGGCGGGGUCGGGGGAUGAGA GGCCUUUGAGCGGGGCCUCACU GUUCUUCUCUUCCUCCAGG
AC_000165.1_8774	TGGGCG GGGTCG GGGGAT GAGA	AC_0 0016 5.1_8 774	UGGGCGGGGUCGGGGGAUGAGA GGCCUUUGAGCGGGGCCUCACU GUUCUUCUCUUCCUCCAGG
AC_000165.1_8809*	AAGCAT CGGTTC	AC_0 0016	AAGCAUCGGUCCUAACCCAGC UGCCUCGCCAGGCUCCGAGGGC

	CTAACC CAGC	5.1_8 809	UGGCGGGGGAGGAGAUGUGGGG UGGGAGGAUGGAGAG
AC_000165.1_8809>AC_000178.1_20679>AC_000162.1_5284	TGGGGT GGGAGG ATGGAG AG	AC_000165.1_8809	AAGCAUCGGUCCUAACCCAGC UGCCUCGCCAGGCUCCGAGGGC UGGCGGGGGAGGAGAUGUGGGG UGGGAGGAUGGAGAG
AC_000165.1_8815*	GCAGTA ACGAGC TCA	AC_000165.1_8815	GCAGUAACGAGCUCACUCCUCG UUAGUAUAGUGG
AC_000165.1_8815	TCCTCGT TAGTATA GTGG	AC_000165.1_8815	GCAGUAACGAGCUCACUCCUCG UUAGUAUAGUGG
AC_000165.1_8839*	ACAATCT TCCATGT TCCTATG C	AC_000165.1_8839	ACAGGAACAUGGAAAAUUGGCA GAAAUAGAUGAUGACUGACAAU CUUCCAUGUCCUAUGC
AC_000165.1_8839	ACAGGA ACATGG AAAATT GGCA	AC_000165.1_8839	ACAGGAACAUGGAAAAUUGGCA GAAAUAGAUGAUGACUGACAAU CUUCCAUGUCCUAUGC
AC_000165.1_8867*	AAAAAC CCAAGT GAACTT TTTG	AC_000165.1_8867	AAUAAGUUCGUUUGGGUUUUUC CAUAACAUCUAACAGAAAAACC CAAGUGAACUUUUUG
AC_000170.1_13547>AC_000174.1_16244>AC_000165.1_8867>AC_000181.1_22697	AATAAG TTCGTTT GGGTTTT	AC_000170.1_13547	AAUAAGUUCGUUUGGGUUUUUC CAUAACAUCUAACAGAAAAACC CAAGUGAACUUUUUG

	T	867	
AC_000186.1_24945>AC_00 0181.1_22594>AC_000165.1 _8950	AAATCT GAACAA GCTTTTT GGC	AC_0 0016 5.1_8 950	CAAAAUUUUGUUUGGGUAUUU CCACAACAUCUUAUGGAAAAAU CUGAACAAGCUUUUUGGC
AC_000165.1_8950*	CAAAAA TTTTGTT TGGGTAT TT	AC_0 0016 5.1_8 950	CAAAAUUUUGUUUGGGUAUUU CCACAACAUCUUAUGGAAAAAU CUGAACAAGCUUUUUGGC
AC_000165.1_8952*	CCTCCCC TGCCCC AAACCC TCAGAC CC	AC_0 0016 5.1_8 952	CCUCCCCUGCCCCAAACCCUCAG ACCCAACCUCAAAGGAACGUGG CGGUGAGGUCGGGCAGAAGAGG GA
AC_000173.1_16032>AC_00 0165.1_8952	CGGTGA GGTCGG GCAGAA GAGGGA	AC_0 0016 5.1_8 952	CCUCCCCUGCCCCAAACCCUCAG ACCCAACCUCAAAGGAACGUGG CGGUGAGGUCGGGCAGAAGAGG GA
AC_000165.1_8959	AAAAAG TTCGTTC CGGTTTT T	AC_0 0016 5.1_8 959	AAAAAGUUCGUUCCGGUUUUUC CAUAAGCUGCUAUGGGAAAACC UGAAUGAACUUUUCAG
AC_000165.1_8959*	AAACCT GAATGA ACTTTTC AG	AC_0 0016 5.1_8 959	AAAAAGUUCGUUCCGGUUUUUC CAUAAGCUGCUAUGGGAAAACC UGAAUGAACUUUUCAG
AC_000165.1_9019	AAAAAC CCAAAT GGACTT	AC_0 0016 5.1_9	ACAAAGUUCGUUUGGGUUUUUC UGUGUUAUGGAAAAACCCAAAU GGACUUUUUGA

	TTTGA	019	
AC_000165.1_9019*	ACAAAG TTCGTTT GGGTTTT T	AC_0 0016 5.1_9 019	ACAAAGUUCGUUUGGGUUUUUC UGUGUUAUGGAAAAACCCAAAU GGACUUUUUGA
AC_000165.1_9037*	AACCTG AGCAAA CCTTTTG G	AC_0 0016 5.1_9 037	AAGAAGUUCGUUCAGGUUUUCC CAUAACAUCUUAUGGAAAAACC UGAGCAAACCUUUUGG
AC_000165.1_9037	AAGAAG TTCGTTC AGGTTTT	AC_0 0016 5.1_9 037	AAGAAGUUCGUUCAGGUUUUCC CAUAACAUCUUAUGGAAAAACC UGAGCAAACCUUUUGG
AC_000165.1_9053*	AAATCTA AAGGAA TTTTTCA G	AC_0 0016 5.1_9 053	GAAAAGUUCGUUUGGGUUUUUC CAGAACAUCUUAUGGAAAAAUC UAAAGGAAUUUUUCAG
AC_000165.1_9053>AC_000 181.1_22545	GAAAAG TTCGTTT GGGTTTT T	AC_0 0016 5.1_9 053	GAAAAGUUCGUUUGGGUUUUUC CAGAACAUCUUAUGGAAAAAUC UAAAGGAAUUUUUCAG
AC_000165.1_9095	AAAGTT CGTTCA GGTTTTT CT	AC_0 0016 5.1_9 095	AAAGUUCGUUCAGGUUUUUCUC CAUUUUACAGGAAACCCCAAAC AAACUUUUU
AC_000165.1_9095*	GAAACC CCAAAC AAACTT TTT	AC_0 0016 5.1_9 095	AAAGUUCGUUCAGGUUUUUCUC CAUUUUACAGGAAACCCCAAAC AAACUUUUU

AC_000165.1_9129*	CACCTG GGGTGA GAG	AC_0 0016 5.1_9 129	CUCUGAACUGUAGGGGAGCGGU GUCGUUACGUGGGGUUCUGCUC GGAAAGUGAAGGGUGCGCACCU GGGGUGAGAG
AC_000165.1_9129	CTCTGA ACTGTA GGGGAG CG	AC_0 0016 5.1_9 129	CUCUGAACUGUAGGGGAGCGGU GUCGUUACGUGGGGUUCUGCUC GGAAAGUGAAGGGUGCGCACCU GGGGUGAGAG
AC_000164.1_7142>AC_000 165.1_9210	AAAAGT TTGGTTG GGTTTTT CT	AC_0 0016 5.1_9 210	CUAAACCUAUUUUCAUAUUUUU UGUGCUCAUUUACAGUGUAUGC UUGAUGAGUAUAUUGGGUUGGC CAAAAAGUUUGGUUGGGUUUUU CU
AC_000165.1_9210*	CTAAAC CTATTTT CATATTT TTTG	AC_0 0016 5.1_9 210	CUAAACCUAUUUUCAUAUUUUU UGUGCUCAUUUACAGUGUAUGC UUGAUGAGUAUAUUGGGUUGGC CAAAAAGUUUGGUUGGGUUUUU CU
AC_000165.1_9225	ATCCTGG ACTTGC GGACAG AG	AC_0 0016 5.1_9 225	AUCCUGGACUUGCGGACAGAGA GCCUGAUUAGCCGCUGGCCUCU CCCCGAGUACAGGAAAU
AC_000165.1_9225*	CTCCCC GAGTAC AGGAAA T	AC_0 0016 5.1_9 225	AUCCUGGACUUGCGGACAGAGA GCCUGAUUAGCCGCUGGCCUCU CCCCGAGUACAGGAAAU
AC_000166.1_10012	CAGGGT GTGTGA GGGTTG	AC_0 0016 6.1_1	UGCUGAGCCCUGCUUCUCUGUG AGGUGAGGUGCUGGCGUCCUCG CCUGCAGGGUGUGUGAGGGUUG

	GA	0012	GA
AC_000166.1_10012*	TGCTGA GCCCTG CTTCTCT GTG	AC_0 0016 6.1_1 0012	UGCUGAGCCCUGCUUCUCUGUG AGGUGAGGUGCUGGGCGUCCUCG CCUGCAGGGUGUGUGAGGGUUG GA
AC_000166.1_9240*	CACCCG GGGAGA CAGGCA TTCA	AC_0 0016 6.1_9 240	CGACAGGGAUCUCGGUGUUGCA UCCAGACGCACCCGGGGAGAC AGGCAUUCA
AC_000166.1_9240	CGACAG GGATCTC GGTGTT G	AC_0 0016 6.1_9 240	CGACAGGGAUCUCGGUGUUGCA UCCAGACGCACCCGGGGAGAC AGGCAUUCA
AC_000166.1_9324	AAAAAC TTGAATG AACTTTT T	AC_0 0016 6.1_9 324	AAAAAGUUCGCUCAGGUUUUUC UAUAACAUAUGUGGAAAAACU UGAAUGAACUUUUU
AC_000166.1_9324*	AAAAAG TTCGCTC AGGTTTT T	AC_0 0016 6.1_9 324	AAAAAGUUCGCUCAGGUUUUUC UAUAACAUAUGUGGAAAAACU UGAAUGAACUUUUU
AC_000166.1_9355	GGGGAG CAGCCA GCCGCG TTG	AC_0 0016 6.1_9 355	UUGC GGCUGGCUGGCCGCCCGCC CGCUAGCAGCGCGGGGAGCAGC CAGCCGCGUUG
AC_000166.1_9355*	TTGCGG CTGGCT GGCCGC CCGC	AC_0 0016 6.1_9 355	UUGC GGCUGGCUGGCCGCCCGCC CGCUAGCAGCGCGGGGAGCAGC CAGCCGCGUUG

AC_000166.1_9522	TGGCAG GAAGGG AACTGG	AC_0 0016 6.1_9 522	UGGCAGGAAGGGAACUGGGAAU GAAUCUCUCUCUCCUGUUCUCU GAUUUUCUGCUAGU
AC_000166.1_9522*	TGTTCTC TGATTTT CTGCTA GT	AC_0 0016 6.1_9 522	UGGCAGGAAGGGAACUGGGAAU GAAUCUCUCUCUCCUGUUCUCU GAUUUUCUGCUAGU
AC_000166.1_9542*	AAAGAA ACTTTTT GGCCAA CC	AC_0 0016 6.1_9 542	AAUAAAGUUUGUUUGGGUUUUU CUGUAAGGUGAUUAUGGAAAAAU CUGAAAGAAACUUUUUGGCCAA CC
AC_000166.1_9542	AATAAA GTTTGTT TGGGTTT TT	AC_0 0016 6.1_9 542	AAUAAAGUUUGUUUGGGUUUUU CUGUAAGGUGAUUAUGGAAAAAU CUGAAAGAAACUUUUUGGCCAA CC
AC_000166.1_9572	AAAAAG GTTGTTT GGGTTTT	AC_0 0016 6.1_9 572	AAAAAGGUUGUUUGGGUUUUUC CAUAAUAUUCUAGGGGGAAAUG GACAAACUUUUUGG
AC_000166.1_9572*	AATGGA CAAAC TTTTGG	AC_0 0016 6.1_9 572	AAAAAGGUUGUUUGGGUUUUUC CAUAAUAUUCUAGGGGGAAAUG GACAAACUUUUUGG
AC_000166.1_9577*	AGGCTG ACCATAC GTGAAG	AC_0 0016 6.1_9 577	AGGCUGACCAUACGUGAAGGCA AGCAGAGGUUUUUCUGAGCUG CUCAGGAUUGGGGGGGCAUCA
AC_000166.1_9577	TCAGGA	AC_0	AGGCUGACCAUACGUGAAGGCA

	TTGGGG GGGCAT CA	0016 6.1_9 577	AGCAGAGGUUUUUCUGAGCUG CUCAGGAUUGGGGGGGCAUCA
AC_000166.1_9735*	ATGGAA ATGATCC TATTGG	AC_0 0016 6.1_9 735	GAAAGGUUCGUUCGGGGUUUUC CGUUAUGGAAAUGGAAAUGAUC CUAUUGG
AC_000166.1_9735	GAAAGG TTCGTTC GGGGTT TT	AC_0 0016 6.1_9 735	GAAAGGUUCGUUCGGGGUUUUC CGUUAUGGAAAUGGAAAUGAUC CUAUUGG
AC_000166.1_9837*	CTCAGT AAAATTT CATTGTG GA	AC_0 0016 6.1_9 837	GGGGGUGGGGGGGCGGCGGGAA UGUGGUCUUGUUCUGGUGGGCA GGCCAUUCUCAGUAAAAUUUC AUUGUGGA
AC_000166.1_9837	GGGGGT GGGGGG GCGGCG GGAA	AC_0 0016 6.1_9 837	GGGGGUGGGGGGGCGGCGGGAA UGUGGUCUUGUUCUGGUGGGCA GGCCAUUCUCAGUAAAAUUUC AUUGUGGA
AC_000166.1_9855*	AAAACC AAATGA AAGTTTT GG	AC_0 0016 6.1_9 855	AAAAGGUUCGUUCGGGUUUUUC UGUGCAGCCUACAGAAAAAAC CAAUGAAAGUUUUGG
AC_000166.1_9855	AAAAGG TTCGTTC GGGTTTT	AC_0 0016 6.1_9 855	AAAAGGUUCGUUCGGGUUUUUC UGUGCAGCCUACAGAAAAAAC CAAUGAAAGUUUUGG
AC_000166.1_9885*	ATGGTG ATCTCAT	AC_0 0016	UAGGAAUGGGAUCGCUGGGUCA UAUGGUGAUCUCAUCCUAGU



	TCCTAGT	6.1_9 885	
AC_000166.1_9885	TAGGAA TGGGAT CGCTGG GT	AC_0 0016 6.1_9 885	UAGGAAUGGGAUCGCUGGGUCA UAUGGUGAUCUCAUCCUAGU
AC_000166.1_9959	CTAGGG CCATACC ACCCTG	AC_0 0016 6.1_9 959	CUAGGGCCAUACCACCCUGAAC GCACCUGAUAGUGUCUGAUCUC GGAAGCUCAGCAGGGCCAGGCC CAGUUAGUA
AC_000166.1_9959*	GGGCCA GGCCCA GTTAGTA	AC_0 0016 6.1_9 959	CUAGGGCCAUACCACCCUGAAC GCACCUGAUAGUGUCUGAUCUC GGAAGCUCAGCAGGGCCAGGCC CAGUUAGUA
AC_000167.1_10076*	AAAGCC GAACGA AATTTTT G	AC_0 0016 7.1_1 0076	UAAAGUUCAUUCGGGUUUUUC GUAAGCUACGAGAGAAAAAGCC GAACGAAUUUUUG
AC_000185.1_24616>AC_00 0167.1_10076>AC_000178.1 _20579>AC_000178.1_20580	TAAAGT TCATTCG GGTTTTT	AC_0 0016 7.1_1 0076	UAAAGUUCAUUCGGGUUUUUC GUAAGCUACGAGAGAAAAAGCC GAACGAAUUUUUG
AC_000167.1_10109	AGTGTTT AGGATT CGGCT	AC_0 0016 7.1_1 0109	UCAGACACAACUGAACAAACUAA CACACACUAGUGUUUAGGAUUC GGCU
AC_000167.1_10109*	TCAGAC ACAAC GAACAA	AC_0 0016 7.1_1	UCAGACACAACUGAACAAACUAA CACACACUAGUGUUUAGGAUUC GGCU

	CTAA	0109	
AC_000167.1_10348	CGGGCT GGGAGT GGGCAG GAGG	AC_0 0016 7.1_1 0348	CGGGCUGGGAGUGGGCAGGAGG CACUUGGUGCUGGGACGUGUUU ACCUGUUUCUUCCUUGGUUCC UGCUCUCCCCCUCCAGCU
AC_000167.1_10348*	TCCTGCT CCTCCCC CTCCAG CT	AC_0 0016 7.1_1 0348	CGGGCUGGGAGUGGGCAGGAGG CACUUGGUGCUGGGACGUGUUU ACCUGUUUCUUCCUUGGUUCC UGCUCUCCCCCUCCAGCU
AC_000167.1_10353*	AAGTCC CTAGTTT CAGA	AC_0 0016 7.1_1 0353	AAGUCCCUAGUUUCAGAGUCC AGCUUCCAGACUGGGAGGCAAU G
AC_000167.1_10353	CCAGAC TGGGAG GCAATG	AC_0 0016 7.1_1 0353	AAGUCCCUAGUUUCAGAGUCC AGCUUCCAGACUGGGAGGCAAU G
AC_000167.1_10440*	AAACCT AAATGA ACTTTTT GT	AC_0 0016 7.1_1 0440	GAAAAGUCCUUCGGGUUUUCC AUGAACUAGCAUAGAGAAACCU AAAUGAACUUUUUGU
AC_000167.1_10440	GAAAAG TTCCTTC GGGTTTT C	AC_0 0016 7.1_1 0440	GAAAAGUCCUUCGGGUUUUCC AUGAACUAGCAUAGAGAAACCU AAAUGAACUUUUUGU
AC_000167.1_10500*	CGGCTC TTGGGC TGTCCG CC	AC_0 0016 7.1_1 0500	UGGACAGGCCAAGCCGCUGUGC AGGCAGCUCCAUCCCAGCCGGCU CUUGGGCUGUCCGCC

AC_000167.1_10500	TGGACA GGCCAA GCCGCT GTG	AC_0 0016 7.1_1 0500	UGGACAGGCCAAGCCGCUGUGC AGGCAGCUCCAUCCCAGCCGGCU CUUGGGCUGUCCGCC
AC_000167.1_10504*	CGAGGA GGCAGA GGAGGA GGA	AC_0 0016 7.1_1 0504	CGGGGAGGCUUUGGAGGGCGAG GAGGCUUCCGAGGAGGCAGAGG AGGAGGA
AC_000167.1_10504	CGGGGA GGCTTT GGAGGG CG	AC_0 0016 7.1_1 0504	CGGGGAGGCUUUGGAGGGCGAG GAGGCUUCCGAGGAGGCAGAGG AGGAGGA
AC_000167.1_10506	AAAAAG TTCGTTG AGGTTTT	AC_0 0016 7.1_1 0506	AAAAAGUUCGUUGAGGUUUUCC AGAAGAUGUUAUGGGAAGAUCA AACUUUUUGG
AC_000167.1_10506*	AGATCA AACTTTT TGG	AC_0 0016 7.1_1 0506	AAAAAGUUCGUUGAGGUUUUCC AGAAGAUGUUAUGGGAAGAUCA AACUUUUUGG
AC_000167.1_10567	CGTCTTG GGTTGG GGCATG GAAC	AC_0 0016 7.1_1 0567	CGUCUUGGGUUGGGGCAUGGAA CUCGGCUUCCCUCUCGAGUUGG AAA AUGGGUGUCAGGCCUCCUG UCAAGUUGAG
AC_000167.1_10567*	GTCAGG CCTCCTG TCAAGT TGAG	AC_0 0016 7.1_1 0567	CGUCUUGGGUUGGGGCAUGGAA CUCGGCUUCCCUCUCGAGUUGG AAA AUGGGUGUCAGGCCUCCUG UCAAGUUGAG
AC_000167.1_10608*	AAAAGT	AC_0	AAAAGUUCAUUUGGGUUUUGUA

	TCATTTG GGTTTT	0016 7.1_1 0608	UAAGAUGUUAUGGAAACACUUG AACCAAUAUAACUCGAACGAAU UUUUGGCCAA
AC_000167.1_10608	ACTCGA ACGAAT TTTTGGC CAA	AC_0 0016 7.1_1 0608	AAAAGUUCAUUUGGGUUUUGUA UAAGAUGUUAUGGAAACACUUG AACCAAUAUAACUCGAACGAAU UUUUGGCCAA
AC_000167.1_10629*	CAACCA TAGGCA GTCACAT ACAT	AC_0 0016 7.1_1 0629	UGUGACUGUCCUGGUAUUGAU UGCAUUUGUUGGUCGUACAGUG CAACCAUAGGCAGUCACAUACA U
AC_000167.1_10629	TGTGAC TGTTCCCT GGTATTG	AC_0 0016 7.1_1 0629	UGUGACUGUCCUGGUAUUGAU UGCAUUUGUUGGUCGUACAGUG CAACCAUAGGCAGUCACAUACA U
AC_000167.1_10672*	AAACCC TGATGA ACTTTTT G	AC_0 0016 7.1_1 0672	GAAAGUUCGUCCGGUUUUUCU GUAAGAUGUUAUGGAAAAACCC UGAUGAACUUUUUG
AC_000167.1_10672	GAAAGT TCGTTCC GGTTTTT C	AC_0 0016 7.1_1 0672	GAAAGUUCGUCCGGUUUUUCU GUAAGAUGUUAUGGAAAAACCC UGAUGAACUUUUUG
AC_000167.1_10674	CAGGGC AGGGGC AGAAGG GGA	AC_0 0016 7.1_1 0674	CCUUCAGGGUCUGUCCCUGCCA GCACCUCAGGGCAGGGGCAGAA GGGGA
AC_000167.1_10674*	CCTTCA GGGTCT	AC_0 0016	CCUUCAGGGUCUGUCCCUGCCA GCACCUCAGGGCAGGGGCAGAA

	GTCCCT GCCAGC AC	7.1_1 0674	GGGGA
AC_000167.1_10700*	ATAACG CGTCTG ACTA	AC_0 0016 7.1_1 0700	AUAACGCGUCUGACUACGGAUC AGAAGAUUCCAGGUUCGACUCC UGGCUGGCUCGGUGGGACGCGU GCGUUUUU
AC_000167.1_10700	GTGGGA CGCGTG CGTTTTT	AC_0 0016 7.1_1 0700	AUAACGCGUCUGACUACGGAUC AGAAGAUUCCAGGUUCGACUCC UGGCUGGCUCGGUGGGACGCGU GCGUUUUU
AC_000167.1_10754*	CCATTGC GTCACAT CCCCCTA G	AC_0 0016 7.1_1 0754	CCAUUGCGUCACAUCCCCUAGU UUUACUCCCUAUAGCUACCAGG AAGGAGUAGGUUUCUGGGACGA GGUGGCCGAGUGGUU
AC_000167.1_10754	GGGACG AGGTGG CCGAGT GGTT	AC_0 0016 7.1_1 0754	CCAUUGCGUCACAUCCCCUAGU UUUACUCCCUAUAGCUACCAGG AAGGAGUAGGUUUCUGGGACGA GGUGGCCGAGUGGUU
AC_000167.1_10813	ACGGAG GAGAAG GGGGGT A	AC_0 0016 7.1_1 0813	ACGGAGGAGAAGGGGGGUAAAU UGGGAGACUGGGAUUGAUUAU ACACUCUCAGUUGUGUCCGACU CUUUGUGACCCCAUGGACUGU
AC_000167.1_10813*	CTCTTTG TGACCC CATGGA CTGT	AC_0 0016 7.1_1 0813	ACGGAGGAGAAGGGGGGUAAAU UGGGAGACUGGGAUUGAUUAU ACACUCUCAGUUGUGUCCGACU CUUUGUGACCCCAUGGACUGU
AC_000167.1_10824*	AACATC CTATTTT	AC_0 0016	AACAUCCUAUUUUCCUUCAGU AUUGGAACAAUUGUGUUUCAU

	TCCTTCA GT	7.1_1 0824	UGUAAAACACCAGAUGAAGUAG UAGGCUGUGUUU
AC_000167.1_10824	TGAAGT AGTAGG CTGTGTT T	AC_0 0016 7.1_1 0824	AACAUCCUAUUUUUCCUUCAGU AUUGGAACAAAUUGUGUUUCAU UGUAAAACACCAGAUGAAGUAG UAGGCUGUGUUU
AC_000167.1_10871	AAACGT TCTTTTG GGTTTTT	AC_0 0016 7.1_1 0871	AAACGUUCUUUUGGGUUUUUCC GUAACACCCAAAUGAAUUUUUU G
AC_000167.1_10871*	ACACCC AAATGA ATTTTTT G	AC_0 0016 7.1_1 0871	AAACGUUCUUUUGGGUUUUUCC GUAACACCCAAAUGAAUUUUUU G
AC_000167.1_10946	AAAACC CGAAGG AACTTTT	AC_0 0016 7.1_1 0946	AAGUUCAUUUAGGUUUCUCUAU GCUAGUUCAUGGAAAACCCGAA GGAACUUUU
AC_000167.1_10946*	AAGTTC ATTTAGG TTTCTCT	AC_0 0016 7.1_1 0946	AAGUUCAUUUAGGUUUCUCUAU GCUAGUUCAUGGAAAACCCGAA GGAACUUUU
AC_000167.1_10951>AC_00 0167.1_10952	CCAGGG GTGGGA TTGTAG GGT	AC_0 0016 7.1_1 0951	CCAGGGGUGGGAUUGUAGGGUC AUGCUGCUGCUGCUGCUGAGUC GCUUCAGUCAUGUCUGACUCUG UGCGACCCCAUAGAUGGCA
AC_000167.1_10951*	TGTGCG ACCCCAT AGATGG	AC_0 0016 7.1_1	CCAGGGGUGGGAUUGUAGGGUC AUGCUGCUGCUGCUGCUGAGUC GCUUCAGUCAUGUCUGACUCUG

	CA	0951	UGCGACCCCAUAGAUGGCA
AC_000167.1_10951>AC_00 0167.1_10952	CCAGGG GTGGGA TTGTAG GGT	AC_0 0016 7.1_1 0952	GCUGCAAUGAACACUGGAGUGC AUGUAUCCUUUCAGACCAUGUU UUUCUCCAGAU AUGUGCCCAGG GGUGGGAUUGUAGGGU
AC_000167.1_10952*	GCTGCA ATGAAC ACTGGA G	AC_0 0016 7.1_1 0952	GCUGCAAUGAACACUGGAGUGC AUGUAUCCUUUCAGACCAUGUU UUUCUCCAGAU AUGUGCCCAGG GGUGGGAUUGUAGGGU
AC_000167.1_10993*	CGGCCA GCCACG TGGCGC ATTG	AC_0 0016 7.1_1 0993	UGGGGUCCGGGCUGGGCGGGAG AGGAGGCCGGAGCCGGCCAGCC ACGUGGCGCAUUG
AC_000167.1_10993>AC_00 0167.1_10994	TGGGGT CCGGGC TGGGCG GG	AC_0 0016 7.1_1 0993	UGGGGUCCGGGCUGGGCGGGAG AGGAGGCCGGAGCCGGCCAGCC ACGUGGCGCAUUG
AC_000167.1_10994*	CGTGGC GGCGCG CGCCCG GT	AC_0 0016 7.1_1 0994	CGUGGCGGCGCGCGCCCGGUGA GUGUGCGAGCGCGGGCGCGCCG GUGCAUGACUGGGGUCCGGGCU GGGCGGG
AC_000167.1_10993>AC_00 0167.1_10994	TGGGGT CCGGGC TGGGCG GG	AC_0 0016 7.1_1 0994	CGUGGCGGCGCGCGCCCGGUGA GUGUGCGAGCGCGGGCGCGCCG GUGCAUGACUGGGGUCCGGGCU GGGCGGG
AC_000167.1_11009*	AGCAAG TGAATG GGAAAA CAGGGC	AC_0 0016 7.1_1 1009	UCAAAGUGGCUAAGUUCUGUGU GACCGGAACCUCCUCGAGGUCA CACAGCAAGUGAAUGGGAAAAC AGGGC

AC_000167.1_11009	TCAAAG TGGCTA AGTTCT GT	AC_0 0016 7.1_1 1009	UCAAAGUGGCUAAGUUCUGUGU GACCGGAACCUCCUCGAGGUCA CACAGCAAGUGAAUGGGAAAAC AGGGC
AC_000167.1_11053*>AC_0 00170.1_12965>AC_000159. 1_2216>AC_000161.1_4718	AAACTT GAATGA ACCTTTT GGCC	AC_0 0016 7.1_1 1053	AAGAAGUUCGUUCAGGUUUUUC UGUAAGACGGUAUGGAAAACUU GAAUGAACCUUUUGGCC
AC_000167.1_11053>AC_00 0171.1_14048	AAGAAG TTCGTTC AGGTTTT TC	AC_0 0016 7.1_1 1053	AAGAAGUUCGUUCAGGUUUUUC UGUAAGACGGUAUGGAAAACUU GAAUGAACCUUUUGGCC
AC_000167.1_11059	AGGTGT GAAGGG CTCGCT GCT	AC_0 0016 7.1_1 1059	AGGUGUGAAGGGCUCGCUGCUC CCCAGGCGUGGUCUGCAGCCAG CCCUUCCCACCCCC
AC_000167.1_11059*	CAGCCA GCCCTTC CCACCC CC	AC_0 0016 7.1_1 1059	AGGUGUGAAGGGCUCGCUGCUC CCCAGGCGUGGUCUGCAGCCAG CCCUUCCCACCCCC
AC_000167.1_11061	AGAGGC GGAGGA TGAAGA AGACG	AC_0 0016 7.1_1 1061	AGAGGCGGAGGAUGAAGAAGAC GAGCACGAGCACGGAGACGCGC AGCAGCUCCAGCGAGAGCUCGC ACUCCUCAUCCUCCCACUCG
AC_000167.1_11061*	CACTCCT CATCCTC CCACTC G	AC_0 0016 7.1_1 1061	AGAGGCGGAGGAUGAAGAAGAC GAGCACGAGCACGGAGACGCGC AGCAGCUCCAGCGAGAGCUCGC ACUCCUCAUCCUCCCACUCG
AC_000168.1_11154*	GCCTCCT	AC_0	UGGACUGGGGAGAAGGGGGCUG



	GCCCC AGCCCC C	0016 8.1_1 1154	UGGCAGCAGAGGGAGGUCCUUA CAGGACCCACUGCUCUCUGUG CCUCCUGCCCCCAGCCCC
AC_000168.1_11154	TGGA GGGAG AAGGG GCTG	AC_0 0016 8.1_1 1154	UGGACUGGGGAGAAGGGGGCUG UGGCAGCAGAGGGAGGUCCUUA CAGGACCCACUGCUCUCUGUG CCUCCUGCCCCCAGCCCC
AC_000162.1_5212>AC_000168.1_11192	AAATGTT CGTTCG GGTTTT	AC_0 0016 8.1_1 1192	AAAUGUUCGUUCGGGUUUUCCU GUAACAUCUUGCCCAAAAAGCU AAAUGAACUUUUUG
AC_000168.1_11192*	AAGCTA AATGAA CTTTTTG	AC_0 0016 8.1_1 1192	AAAUGUUCGUUCGGGUUUUCCU GUAACAUCUUGCCCAAAAAGCU AAAUGAACUUUUUG
AC_000168.1_11224*	TACAAA CATACCT GCCCC TG	AC_0 0016 8.1_1 1224	UGUAGUAGGUUGUGUGGGCUUC CAGUGAGGCUGCACGGAGAUUA CAAACAUACCUGCCCCCUG
AC_000168.1_11224	TGTAGTA GGTTGT GTGGG	AC_0 0016 8.1_1 1224	UGUAGUAGGUUGUGUGGGCUUC CAGUGAGGCUGCACGGAGAUUA CAAACAUACCUGCCCCCUG
AC_000168.1_11243*	AAAAGT TCATTCG GGTTTCT	AC_0 0016 8.1_1 1243	AAAAGUUCAUUCGGGUUUCUCU GUAACAGGCUAUGGGAAAACCC GAAGGAACUUUUUG
AC_000168.1_11243	GAAAAC CCGAAG	AC_0 0016	AAAAGUUCAUUCGGGUUUCUCU GUAACAGGCUAUGGGAAAACCC

	GAACCTT TTTG	8.1_1 1243	GAAGGAACUUUUUG
AC_000168.1_11255*	AAAAAT ATTTGTT CAGGGT TTT	AC_0 0016 8.1_1 1255	AAAAAUUUUGUUCAGGGUUUU CCAUAGCAUCUUAUGGAAAAAC AUGAACAAGCUUUUUGGC
AC_000168.1_11255	AAACAT GAACAA GCTTTTT GGC	AC_0 0016 8.1_1 1255	AAAAAUUUUGUUCAGGGUUUU CCAUAGCAUCUUAUGGAAAAAC AUGAACAAGCUUUUUGGC
AC_000168.1_11260	AAAAAG TTCTTTC GGGTTTT T	AC_0 0016 8.1_1 1260	AAAAAGUUCUUUCGGGUUUUU UGCACCAUCUACAGAAAAACC CAAACAAACUUUUUGG
AC_000168.1_11260*>AC_0 00171.1_14343*>AC_000180 .1_22115*	AAAACC CAAACA AACTTTT TGG	AC_0 0016 8.1_1 1260	AAAAAGUUCUUUCGGGUUUUU UGCACCAUCUACAGAAAAACC CAAACAAACUUUUUGG
AC_000168.1_11305	CAGGAC TGGGGT GGGCAT GGCT	AC_0 0016 8.1_1 1305	UCUUCCCUUCCCAGAAGCUGCCG UCUGAGUGCUGGUUUGGCUCCU GCCCAGCUGCCAGCUCCAGGACU GGGGUGGGCAUGGCU
AC_000168.1_11305*	TCTTCCC TTCCCA GAAGCT GCC	AC_0 0016 8.1_1 1305	UCUUCCCUUCCCAGAAGCUGCCG UCUGAGUGCUGGUUUGGCUCCU GCCCAGCUGCCAGCUCCAGGACU GGGGUGGGCAUGGCU
AC_000168.1_11353*	CCAGAG ACCTCG GCCAAG	AC_0 0016 8.1_1	CCAGAGACCUCGGCCAAGCUAU UGAGGCAUGUGGGCUUCAUUCA CUGCCAUGCUGGGCUGGGGUC

	CT	1353	GUGGGU
AC_000168.1_11353	CTTGGG CTGGGG TCGTGG GT	AC_0 0016 8.1_1 1353	CCAGAGACCUCGGCCAAGCUAU UGAGGCAUGUGGGCUUCAUUCA CUGCCAUGCUUGGGCUGGGGUC GUGGGU
AC_000168.1_11389	ACCACT GGGCAG AGGACA CAT	AC_0 0016 8.1_1 1389	GUGUCCUUUCUCUAAGUGGGCC AGGGAAAGAGAGACAGUCGGGA CCACUGGGCAGAGGACACAU
AC_000168.1_11389*	GTGTCCT TTCTCTA AGTGGC CC	AC_0 0016 8.1_1 1389	GUGUCCUUUCUCUAAGUGGGCC AGGGAAAGAGAGACAGUCGGGA CCACUGGGCAGAGGACACAU
AC_000168.1_11399	CGAGGG ATTGGA GGGGGG GTCA	AC_0 0016 8.1_1 1399	GCCCCAUCCUGCCUCAGGGUA CUCACUACCCGAGGGAUUGGAG GGGGGGUCA
AC_000168.1_11399*	GCCCCAT CCCTGC CCTCAG GG	AC_0 0016 8.1_1 1399	GCCCCAUCCUGCCUCAGGGUA CUCACUACCCGAGGGAUUGGAG GGGGGGUCA
AC_000168.1_11428*	AGCCAC CAGAGC TCTGTCC TCA	AC_0 0016 8.1_1 1428	UGGAGAGAACAGGUGGCUUUCU CCAGGCCAAUGGUUGGAAGCCA CCAGAGCUCUGUCCUCA
AC_000168.1_11428	TGGAGA GAACAG GTGGCT TT	AC_0 0016 8.1_1 1428	UGGAGAGAACAGGUGGCUUUCU CCAGGCCAAUGGUUGGAAGCCA CCAGAGCUCUGUCCUCA

AC_000168.1_11463	AGAATT GCGTTT GGACAA TCAGT	AC_0 0016 8.1_1 1463	AGAUGUCCAGCCACAAUUCUCG GUUGGCCGCAGACUCGUACAAG AAUUGCGUUUGGACAAUCAGU
AC_000168.1_11463*	AGATGT CCAGCC ACAATTC TCGG	AC_0 0016 8.1_1 1463	AGAUGUCCAGCCACAAUUCUCG GUUGGCCGCAGACUCGUACAAG AAUUGCGUUUGGACAAUCAGU
AC_000168.1_11470	CGCTGC GGAAGG GAACGG CG	AC_0 0016 8.1_1 1470	CGCUGCGGAAGGGAACGGCGAG GAGCCGAGGCCGCGAGCCCCGU CAGUCCCCCAGCACCCCC
AC_000168.1_11470*	TCAGTTC CCCCAG CACCCC C	AC_0 0016 8.1_1 1470	CGCUGCGGAAGGGAACGGCGAG GAGCCGAGGCCGCGAGCCCCGU CAGUCCCCCAGCACCCCC
AC_000168.1_11477	CGCAGG GGCAGA TCTTGG G	AC_0 0016 8.1_1 1477	CGUUUACUGCUUCUGCGAGAUC AAGUGUUGAGGGCGCAGGGGCA GAUCUUGGG
AC_000168.1_11477*	CGTTTAC TGCTTCT GCGAG	AC_0 0016 8.1_1 1477	CGUUUACUGCUUCUGCGAGAUC AAGUGUUGAGGGCGCAGGGGCA GAUCUUGGG
AC_000168.1_11479	CTGGGA TGGGGT TGGGAA GGG	AC_0 0016 8.1_1 1479	UUUCCUAAGCCAUGUUUGGGUG GGUGUCGGGGGUCCUGAGGGC UGGAGGCUGAGGCUGGCAGCCA GCCUGGGAUGGGGUUGGGAAGG G

AC_000168.1_11479*	TTCCTA AGCCAT GTTTGG G	AC_0 0016 8.1_1 1479	UUUCCUAAGCCAUGUUUGGGUG GGUGUCGGGGGUCCUGAGGGC UGGAGGCUGAGGCUGGCAGCCA GCCUGGGAUGGGGUUGGGAAGG G
AC_000168.1_11607	CAGGGA CTGGGG AGGTGG GT	AC_0 0016 8.1_1 1607	CAGGGACUGGGGAGGUGGGUUG AAUGGAAACACCCUGACUGCUU UCCCCAGGUCUUGACUUUCCCU UUCUGCC
AC_000168.1_11607*	TCTTGAC TTTCCCT TTCTGCC	AC_0 0016 8.1_1 1607	CAGGGACUGGGGAGGUGGGUUG AAUGGAAACACCCUGACUGCUU UCCCCAGGUCUUGACUUUCCCU UUCUGCC
AC_000168.1_11715	AGTAGG TTGGTC GGGGGA TGTTT	AC_0 0016 8.1_1 1715	AGUAGGUUGGUCGGGGGAUGUU UUGGGGCAGGGGAGGGGGUGC GAGGUUAUGCCGGGUCUGUCU GGUGGGGACUAUGAGACAUGCU UG
AC_000168.1_11715*	GGGGAC TATGAG ACATGCT TG	AC_0 0016 8.1_1 1715	AGUAGGUUGGUCGGGGGAUGUU UUGGGGCAGGGGAGGGGGUGC GAGGUUAUGCCGGGUCUGUCU GGUGGGGACUAUGAGACAUGCU UG
AC_000168.1_11722*	TACCCAT CTTCAG CCGCCT C	AC_0 0016 8.1_1 1722	UACCCAUCUUCAGCCGCCUCUC AUCUCCGACGACUGAGGCAAGA GGGCGCCAGUGAGGAGGAGGAA GGGAAGG
AC_000168.1_11722	TGAGGA GGAGGA	AC_0 0016	UACCCAUCUUCAGCCGCCUCUC AUCUCCGACGACUGAGGCAAGA

	AGGGAA GG	8.1_1 1722	GGGCGCCAGUGAGGAGGAGGAA GGGAAGG
AC_000168.1_11758*	ACCAGG TCCACT GATTTGC GA	AC_0 0016 8.1_1 1758	ACCAGGUCCACUGAUUUGCGAU CAUGCUUAUAUCUCAAAUCAGU GGACCUGGUAG
AC_000168.1_11758	TCAAATC AGTGGA CCTGGT AG	AC_0 0016 8.1_1 1758	ACCAGGUCCACUGAUUUGCGAU CAUGCUUAUAUCUCAAAUCAGU GGACCUGGUAG
AC_000168.1_11764	AAAAAG TTTGTTT GGGGTT TC	AC_0 0016 8.1_1 1764	AAAAAGUUUGUUUGGGGUUUC UGUAAAAUGGAGAAAAUCUGA ACGAACUUUGUGG
AC_000168.1_11764*	GAAAAA TCTGAA CGAACT TTGTGG	AC_0 0016 8.1_1 1764	AAAAAGUUUGUUUGGGGUUUC UGUAAAAUGGAGAAAAUCUGA ACGAACUUUGUGG
AC_000168.1_11854*	CACATAC TACTGC ATGCTCC CAGC	AC_0 0016 8.1_1 1854	CACAUACUACUGCAUGCUCCCA GCCCUUCAGGCAGGAAGUCUGA GCUGGACUGUGGGCUGGAGAGG GGGUGGC
AC_000168.1_11854	TGTGGG CTGGAG AGGGGG TGGC	AC_0 0016 8.1_1 1854	CACAUACUACUGCAUGCUCCCA GCCCUUCAGGCAGGAAGUCUGA GCUGGACUGUGGGCUGGAGAGG GGGUGGC
AC_000168.1_11963*	AAATGC AAATGA AGTTTTT	AC_0 0016 8.1_1	GAGAGUUUGUUUGGGUUUUUCC AUAGGAUGUUAUGGAAAAUGCA AAUGAAGUUUUUG

	G	1963	
AC_000168.1_11963	GAGAGT TTGTTTG GGTTTTT	AC_0 0016 8.1_1 1963	GAGAGUUUGUUUGGGUUUUUCC AUAGGAUGUUAUGGAAAUGCA AAUGAAGUUUUUG
AC_000168.1_12004	AGGCAG CGGAGG CAGACT A	AC_0 0016 8.1_1 2004	GUCAGCCCCGCCUCUCCUCUUU CCCUCCGAGAAGGCAGCGGAGG CAGACUA
AC_000168.1_12004*	GTCAGC CCCGCC TCTTCC	AC_0 0016 8.1_1 2004	GUCAGCCCCGCCUCUCCUCUUU CCCUCCGAGAAGGCAGCGGAGG CAGACUA
AC_000181.1_22498>AC_00 0168.1_12045	AGGGGT GGGGGG GCGGCG	AC_0 0016 8.1_1 2045	AGGGGUGGGGGGGCGGGCAGGG GGGAAGUCCCGAUUCCUAGCCA CAUUCGCUCGCCCCACCUCCACC CCUGC
AC_000168.1_12045*	CCCCAC CTCCAC CCCTGC	AC_0 0016 8.1_1 2045	AGGGGUGGGGGGGCGGGCAGGG GGGAAGUCCCGAUUCCUAGCCA CAUUCGCUCGCCCCACCUCCACC CCUGC
AC_000168.1_12099*	CCGCCT CCTGTCC TCTGCCC TCA	AC_0 0016 8.1_1 2099	UGGGCAGGGUCUCGGGAGGAGG GGCCGUUCUGACAGCUCGCCUC CUGUCCUCUGCCCUCA
AC_000168.1_12099	TGGGCA GGGTCT CGGGAG GAGGGG	AC_0 0016 8.1_1 2099	UGGGCAGGGUCUCGGGAGGAGG GGCCGUUCUGACAGCUCGCCUC CUGUCCUCUGCCCUCA

AC_000168.1_12115*	GCCCTG GGCTTG GGCCCT GGAGC	AC_0 0016 8.1_1 2115	UCCCAAGGCCAGCCCGUGGCAG GCAGCUGCACCUCUGCCCUGGGC UUGGGCCCUGGAGC
AC_000168.1_12115	TCCCAA GGCCCA GCCCGT GGCAG	AC_0 0016 8.1_1 2115	UCCCAAGGCCAGCCCGUGGCAG GCAGCUGCACCUCUGCCCUGGGC UUGGGCCCUGGAGC
AC_000169.1_12171*	CCACCTT CCCATTT TACAGAT G	AC_0 0016 9.1_1 2171	CCACCUUCCCAUUUUACAGAUG GGUAAGCAAAGGCCCAUCUGUA UAAUGGGAAGGUGGAC
AC_000169.1_12171	TCTGTAT AATGGG AAGGTG GAC	AC_0 0016 9.1_1 2171	CCACCUUCCCAUUUUACAGAUG GGUAAGCAAAGGCCCAUCUGUA UAAUGGGAAGGUGGAC
AC_000169.1_12190	AAAAGT TCGTTCG GGTTTTT	AC_0 0016 9.1_1 2190	AAAAGUUCGUUCGGGUUUUUUG UUUACAGCUCACUAGAAAAACC CAAUGAACUCUUUGG
AC_000169.1_12190*	AAACCC AAATGA ACTCTTT GG	AC_0 0016 9.1_1 2190	AAAAGUUCGUUCGGGUUUUUUG UUUACAGCUCACUAGAAAAACC CAAUGAACUCUUUGG
AC_000169.1_12205	AGGCTG GGACAT AGGCTG C	AC_0 0016 9.1_1 2205	CUCCUGAGGUCCGACUCUGAAC UCCAGGCUGGGACAUAGGCUGC
AC_000169.1_12205*	CTCCTG	AC_0	CUCCUGAGGUCCGACUCUGAAC



	AGGTCC GACTCT GA	0016 9.1_1 2205	UCCAGGCUGGGACAUAGGCUGC
AC_000169.1_12217*	GCCTGG TTAAGG CTGTTTG	AC_0 0016 9.1_1 2217	GCCUGGUUAAGGCUGUUUGCCC CUGAGCCAGUCCAGUUUCCCA GGAAU
AC_000169.1_12217	GTCCAG TTTTCCC AGGAAT	AC_0 0016 9.1_1 2217	GCCUGGUUAAGGCUGUUUGCCC CUGAGCCAGUCCAGUUUCCCA GGAAU
AC_000169.1_12227*	CCGCGG CGTGCG GGGCTC CGGGA	AC_0 0016 9.1_1 2227	CCGCGGCGUGCGGGGCUCGGGG ACCCGCGGGUCAGUCCGCGGGG AGCUCUGGGGGCCGGCGGGCGGC GGCG
AC_000169.1_12227	CTGGGG GCCGGC GGCGGC GGCG	AC_0 0016 9.1_1 2227	CCGCGGCGUGCGGGGCUCGGGG ACCCGCGGGUCAGUCCGCGGGG AGCUCUGGGGGCCGGCGGGCGGC GGCG
AC_000169.1_12228	CTGGGG GCCGGC GGCGGC GG	AC_0 0016 9.1_1 2228	CUGGGGGCCGGCGGGCGGGCGGC GCACCGCGUCUGAGGGAGCGGA CUCUGCGGUGCGGCCGAAGGAC CGGGCGGUCUGGCAGGC
AC_000169.1_12228*	GAAGGA CCGGGC GGTCTG GCAGGC	AC_0 0016 9.1_1 2228	CUGGGGGCCGGCGGGCGGGCGGC GCACCGCGUCUGAGGGAGCGGA CUCUGCGGUGCGGCCGAAGGAC CGGGCGGUCUGGCAGGC
AC_000169.1_12235	TCACGG TCTCGG	AC_0 0016	UGGGCAGGCCGUUGACCAUGGG AGUAGGCUUGGGAUACUCACGG

	CGTCCA CG	9.1_1 2235	UCUCGGCGUCCACG
AC_000169.1_12235*	TGGGCA GGCCGT TGACCAT GGGAGT	AC_0 0016 9.1_1 2235	UGGGCAGGCCGUUGACCAUGGG AGUAGGCUUGGGAUACUCACGG UCUCGGCGUCCACG
AC_000169.1_12272*	CGCTCCT CCTTGA AGCCTG AATCGG TG	AC_0 0016 9.1_1 2272	CUCGGGGCUGGGAAUGGGGCGG AGACCUGACUGCGCUCCUCCUU GAAGCCUGAAUCGGUG
AC_000169.1_12272	CTCGGG GCTGGG AATGGG GCGGA	AC_0 0016 9.1_1 2272	CUCGGGGCUGGGAAUGGGGCGG AGACCUGACUGCGCUCCUCCUU GAAGCCUGAAUCGGUG
AC_000169.1_12363*	GGTCAA AAAATT CATTCAG ATT	AC_0 0016 9.1_1 2363	GGUCAAAAAAUUCAUUCAGAAU UUUCCAUAACCAUCUUAUGGAAA AAAUCCAAGUGAACUUUUUGGC CAA
AC_000158.1_838>AC_0001 69.1_12363	TCCAAG TGAACT TTTTGGC CAA	AC_0 0016 9.1_1 2363	GGUCAAAAAAUUCAUUCAGAAU UUUCCAUAACCAUCUUAUGGAAA AAAUCCAAGUGAACUUUUUGGC CAA
AC_000169.1_12408	ACATAG GAATTG GGGGCA GGGGTT A	AC_0 0016 9.1_1 2408	ACAUAGGAAUUGGGGGCAGGGG UUACAACUUAACCCUUAACUCA CACUGUGGGC
AC_000169.1_12408*	ACCCTTA	AC_0	ACAUAGGAAUUGGGGGCAGGGG

	ACTCAC ACTGTG GGC	0016 9.1_1 2408	UUACAACUUAACCCUUAACUCA CACUGUGGGC
AC_000169.1_12416	CGGCGG ATAGAG GTGGTG ATG	AC_0 0016 9.1_1 2416	CGGCGGAUAGAGGUGGUGAUGU GUGUAGGGAAGCGAGAAGACAC GCCUUAGACACUUCUGCGGGCU GGG
AC_000169.1_12416*	TTAGAC ACTTCTG CGGGCT GGG	AC_0 0016 9.1_1 2416	CGGCGGAUAGAGGUGGUGAUGU GUGUAGGGAAGCGAGAAGACAC GCCUUAGACACUUCUGCGGGCU GGG
AC_000169.1_12436*	TCAAAT GGACTT TTTGCC AAC	AC_0 0016 9.1_1 2436	UGGCCACAAAGUUCGUUUGGGU UUUCCAUAACACCUUAUGGGA AACUCAAAUGGACUUUUUGGCC AAC
AC_000169.1_12436>AC_00 0170.1_12928	TGGCCA CAAAGT TCGTTTG GGT	AC_0 0016 9.1_1 2436	UGGCCACAAAGUUCGUUUGGGU UUUCCAUAACACCUUAUGGGA AACUCAAAUGGACUUUUUGGCC AAC
AC_000169.1_12478*	CCGCTA AACTGG GGAAAC CA	AC_0 0016 9.1_1 2478	CCGCUAAACUGGGGAAACCACA GAGUUGUGGUUCCUUAAGUGUA GUGGCU
AC_000169.1_12478	GTTTCCT TAGTGTA GTGGCT	AC_0 0016 9.1_1 2478	CCGCUAAACUGGGGAAACCACA GAGUUGUGGUUCCUUAAGUGUA GUGGCU
AC_000169.1_12491	AAAAGT TCGTTTG	AC_0 0016	AAAAGUUCGUUUGGGUUUCCU AUGACAUCUACAAUAACCUGA

	GGTTTT	9.1_1 2491	ACGAACUUUUUGGA
AC_000169.1_12491*	ATAACCT GAACGA ACTTTTT GGA	AC_0 0016 9.1_1 2491	AAAAGUUCGUUUGGGUUUUCCU AUGACAUCUUACAAUAACCUGA ACGAACUUUUUGGA
AC_000169.1_12499	AAACGT TCGTTTG GGTTTTT	AC_0 0016 9.1_1 2499	AAACGUUCGUUUGGGUUUUUUG UACCGUCUCAGGAAAUACCCAG ACGAACCUUUUGG
AC_000169.1_12499*	ATACCCA GACGAA CCTTTTG G	AC_0 0016 9.1_1 2499	AAACGUUCGUUUGGGUUUUUUG UACCGUCUCAGGAAAUACCCAG ACGAACCUUUUGG
AC_000169.1_12501*	CCAGCA GGATCCT AGGGGA	AC_0 0016 9.1_1 2501	UGAGAUGGGGAUCUGAGGGUGGU UCUGGAAUACCAGCAAGCCAGC AGGAUCCUAGGGGA
AC_000169.1_12501	TGAGAT GGGATC TGAGGG TGGTT	AC_0 0016 9.1_1 2501	UGAGAUGGGGAUCUGAGGGUGGU UCUGGAAUACCAGCAAGCCAGC AGGAUCCUAGGGGA
AC_000169.1_12532	AAAACC GAACGA ACTTTTG GGC	AC_0 0016 9.1_1 2532	CAGAAAAUUCACUUGGAUUUUU CUGU AACAGCUUAUGGAGAAAA CCGAACGAACUUUUGGGC
AC_000169.1_12532*	CAGAAA ATTCCT TGGATTT	AC_0 0016 9.1_1	CAGAAAAUUCACUUGGAUUUUU CUGU AACAGCUUAUGGAGAAAA CCGAACGAACUUUUGGGC

	TT	2532	
AC_000169.1_12576*	GCACGT GGGATC TTTGTTG T	AC_0 0016 9.1_1 2576	GCACGUGGGAUCUUUGUUGUCU CAUGC GGGAUCUUUUGUUGUGG UG
AC_000169.1_12576	TGCGGG ATCTTTT GTTGTG GTG	AC_0 0016 9.1_1 2576	GCACGUGGGAUCUUUGUUGUCU CAUGC GGGAUCUUUUGUUGUGG UG
AC_000169.1_12603*	AAATCC AAACAA ACTTTCT GG	AC_0 0016 9.1_1 2603	AAGAAGUUCGUUUGGGUUUUUC CAUAAGCUGUCAUGGAAAAAAU CCAAACAAACUUUCUGG
AC_000170.1_12856>AC_00 0176.1_19037>AC_000187.1 _26549>AC_000169.1_12603 >AC_000178.1_20340	AAGAAG TTCGTTT GGGTTTT T	AC_0 0016 9.1_1 2603	AAGAAGUUCGUUUGGGUUUUUC CAUAAGCUGUCAUGGAAAAAAU CCAAACAAACUUUCUGG
AC_000169.1_12635*	CCCCTCT CCTGGC AGCTCG GA	AC_0 0016 9.1_1 2635	GGGGCUGAGAGAGGGGCGCGCG UAGCGGCCCCUCUCCUGGCAGCU CGGA
AC_000169.1_12635	GGGGCT GAGAGA GGGGCG	AC_0 0016 9.1_1 2635	GGGGCUGAGAGAGGGGCGCGCG UAGCGGCCCCUCUCCUGGCAGCU CGGA
AC_000169.1_12701	ATGGATT TTTGGA GCAGGG AGTT	AC_0 0016 9.1_1 2701	AUGGAUUUUUGGAGCAGGGAGU UGGAAUAGGAGCUUGCUCUGUC CACUCCAUGCAUCGACCUAG

AC_000169.1_12701*	CTCCATG CATCGA CCTAG	AC_0 0016 9.1_1 2701	AUGGAUUUUUGGAGCAGGGAGU UGGAAUAGGAGCUUGCUCUGUC CACUCCAUGCAUCGACCUAG
AC_000169.1_12760*	CGAAGG TCCTTGC AGCCAG AAT	AC_0 0016 9.1_1 2760	CGAAGGUCCUUGCAGCCAGAAU GGGGUUCUAUCAUUUGAGACGG GCUAAGCUGGGGUUGCAAAGAG UCGGA
AC_000169.1_12760	TGGGGT TGCAAA GAGTCG GA	AC_0 0016 9.1_1 2760	CGAAGGUCCUUGCAGCCAGAAU GGGGUUCUAUCAUUUGAGACGG GCUAAGCUGGGGUUGCAAAGAG UCGGA
AC_000169.1_12762*	AAAAAG CTCGTTT AGGTTTT CT	AC_0 0016 9.1_1 2762	AAAAAGCUCGUUUAGGUUUUCU GAAUCAUCUUAACAAAACUCUG AAUGAACUUUUUG
AC_000169.1_12762	AAACTC TGAATG AACTTTT TG	AC_0 0016 9.1_1 2762	AAAAAGCUCGUUUAGGUUUUCU GAAUCAUCUUAACAAAACUCUG AAUGAACUUUUUG
AC_000170.1_12790	AAAAAG TTTGGTT GGGTTTT CT	AC_0 0017 0.1_1 2790	AAAAAGUUUGGUUGGGUUUUUCU GUAAGAUUUUACAGAAAUAUCU GAAUGAAUUUUUUGG
AC_000170.1_12790*	AAATATC TGAATG AATTTTT TGG	AC_0 0017 0.1_1 2790	AAAAAGUUUGGUUGGGUUUUUCU GUAAGAUUUUACAGAAAUAUCU GAAUGAAUUUUUUGG
AC_000170.1_12856*	AAAACC	AC_0	AAGAAGUUCGUUUUGGGUUUUUC

	TGAACA AACTTTT TGA	0017 0.1_1 2856	CUUUAAGUGGUAUGGAAAACCU GAACAAACUUUUUGA
AC_000170.1_12856>AC_00 0176.1_19037>AC_000187.1 _26549>AC_000169.1_12603 >AC_000178.1_20340	AAGAAG TTCGTTT GGGTTTT T	AC_0 0017 0.1_1 2856	AAGAAGUUCGUUUGGGUUUUUC CUUUAAGUGGUAUGGAAAACCU GAACAAACUUUUUGA
AC_000170.1_12862*	AAAAAT GCGAAT GAACTT TTTG	AC_0 0017 0.1_1 2862	AAAAAUUCGUUCAGGUUUUUUC UGUACGAUGGUAUGGAAAAAAU GCGAAUGAACUUUUUG
AC_000170.1_12862>AC_00 0158.1_689>AC_000158.1_8 69	AAAAAT TTCGTTC AGGTTTT TC	AC_0 0017 0.1_1 2862	AAAAAUUCGUUCAGGUUUUUUC UGUACGAUGGUAUGGAAAAAAU GCGAAUGAACUUUUUG
AC_000170.1_12882	AAAAAT TTCGTTC AGGTTTT TT	AC_0 0017 0.1_1 2882	AAAAAUUCGUUCAGGUUUUUU CAUUGCAUUUUAUGGAGAAAUC AUGACGAACCUUUUGG
AC_000170.1_12882*	GAAATC ATGACG AACCTTT TGG	AC_0 0017 0.1_1 2882	AAAAAUUCGUUCAGGUUUUUU CAUUGCAUUUUAUGGAGAAAUC AUGACGAACCUUUUGG
AC_000170.1_12883	GGGGGC CGGCGG CGGCGG CGGC	AC_0 0017 0.1_1 2883	UCAGGCCCCGCCAAAGUUGGUG CUUGUCCUCCAGAAAGCCGGG CGGGGGCCGGCGGCGGCGGCGG C
AC_000170.1_12883*	TCAGGC CCCGCC	AC_0 0017	UCAGGCCCCGCCAAAGUUGGUG CUUGUCCUCCAGAAAGCCGGG

	AAAGTT GGTGCT TGT	0.1_1 2883	CGGGGGCCGGCGGGCGGGCGG C
AC_000170.1_12916*	ACGATTC ATTTACT CCTTC	AC_0 0017 0.1_1 2916	UGGAGUAUUAUAUUGUGUGAAU UUAGCACGAUUCAUUUACUCCU UC
AC_000170.1_12916	TGGAGT ATTATAT TGTGT	AC_0 0017 0.1_1 2916	UGGAGUAUUAUAUUGUGUGAAU UUAGCACGAUUCAUUUACUCCU UC
AC_000170.1_12920*	GCGTCC TTCCAG CCT	AC_0 0017 0.1_1 2920	GCGUCCUCCAGCCUCAGGUAG GGAGAGAGACAUGUCA
AC_000170.1_12920	GTAGGG AGAGAG ACATGTC A	AC_0 0017 0.1_1 2920	GCGUCCUCCAGCCUCAGGUAG GGAGAGAGACAUGUCA
AC_000170.1_12928*	CCGAAC TTTTTGG CCAAC	AC_0 0017 0.1_1 2928	UGGCCACAAAGUUCGUUUGGGU UUUCCAUGUUACGGAAAAACC CGAACUUUUUGGCCAAC
AC_000169.1_12436>AC_00 0170.1_12928	TGGCCA CAAAGT TCGTTTG GGT	AC_0 0017 0.1_1 2928	UGGCCACAAAGUUCGUUUGGGU UUUCCAUGUUACGGAAAAACC CGAACUUUUUGGCCAAC
AC_000170.1_12934*	CCCATT GTCCATG	AC_0 0017	UUUAGACAUGGACAAAUGGGCA GAAUUUUGACUAUAUCUGCCCA



	TCTAAA AT	0.1_1 2934	UUUGUCCAUGUCUAAAAU
AC_000170.1_12934	TTTAGAC ATGGAC AAATGG GCA	AC_0 0017 0.1_1 2934	UUUAGACAUGGACAAAUGGGCA GAAUUUUGACUAUAUCUGCCCA UUUGUCCAUGUCUAAAAU
AC_000170.1_12959*	CAGGGA GGTGTC TCAGTG ACAAGT T	AC_0 0017 0.1_1 2959	CAGGGAGGUGUCUCAGUGACAA GUUUAUCCCCCUGGGGCUUUA CAAACUUGCUGAGUGACCUCCC UGCU
AC_000170.1_12959>AC_00 0170.1_12960	CTTGCTG AGTGAC CTCCCTG CT	AC_0 0017 0.1_1 2959	CAGGGAGGUGUCUCAGUGACAA GUUUAUCCCCCUGGGGCUUUA CAAACUUGCUGAGUGACCUCCC UGCU
AC_000170.1_12960*	CAGAAG AAAGGG CGATGCT GGAC	AC_0 0017 0.1_1 2960	CUUGCUGAGUGACCUCCCUGCU CCUCGCUGGGAGGGUCUACGUU GCAGAGGGUGAGCAGAAGAAAG GGCGAUGCUGGAC
AC_000170.1_12959>AC_00 0170.1_12960	CTTGCTG AGTGAC CTCCCTG CT	AC_0 0017 0.1_1 2960	CUUGCUGAGUGACCUCCCUGCU CCUCGCUGGGAGGGUCUACGUU GCAGAGGGUGAGCAGAAGAAAG GGCGAUGCUGGAC
AC_000170.1_12964	AAAAGT TCTTTCC GGTTTTC CT	AC_0 0017 0.1_1 2964	AAAAGUUCUUCCGGUUUUCU GAAUAUCUUAUAGGAAAACCA GAAUGAACUUA
AC_000170.1_12964*	AGGAAA ACCAGA	AC_0 0017	AAAAGUUCUUCCGGUUUUCU GAAUAUCUUAUAGGAAAACCA

	ATGAAC TTA	0.1_1 2964	GAAUGAACUUA
AC_000167.1_11053*>AC_000170.1_12965>AC_000159.1_2216>AC_000161.1_4718	AAACTT GAATGA ACCTTTT GGCC	AC_0 0017 0.1_1 2965	CCAAGAAGUUCAUCGGGUUUU UCCAUACUAGCUCCUGGAAAAA CUUGAAUGAACCUUUUGGCC
AC_000170.1_12965*	CCAAGA AGTTCA ATCGGG TTTTT	AC_0 0017 0.1_1 2965	CCAAGAAGUUCAUCGGGUUUU UCCAUACUAGCUCCUGGAAAAA CUUGAAUGAACCUUUUGGCC
AC_000170.1_13070*	TCCACA GCTACCT GACA	AC_0 0017 0.1_1 3070	UGAGGUAGCUUGUGUGGGUGAGA AGUCACAGAGGACAUUCAGCUG CUCCACAGCUACCUGACA
AC_000170.1_13070	TGAGGT AGCTTG TGTGGT	AC_0 0017 0.1_1 3070	UGAGGUAGCUUGUGUGGGUGAGA AGUCACAGAGGACAUUCAGCUG CUCCACAGCUACCUGACA
AC_000170.1_13102*	CCTCAC ATCCCTG CCTCCCC C	AC_0 0017 0.1_1 3102	UGGAGGCUGGGAGUGCAUGAGC UGGCUCUCACCAGCUCCUCACAU CCCUGCCUCCCC
AC_000170.1_13102	TGGAGG CTGGGA GTGCAT GAG	AC_0 0017 0.1_1 3102	UGGAGGCUGGGAGUGCAUGAGC UGGCUCUCACCAGCUCCUCACAU CCCUGCCUCCCC
AC_000170.1_13324	CACCGG AGGCGG GGGATG	AC_0 0017 0.1_1	CUGC GAUUGCCCCCUCCGGCUC UGGCUGCCUUUGCCUGCCUGUC ACCGGAGGCGGGGAUGCGUUG

	CGTTGG	3324	G
AC_000170.1_13324*	CTGCGAT TGCCCC CTTCCG GCTC	AC_0 0017 0.1_1 3324	CUGCGAUUGCCCCUUCGGCUC UGGCUGCCUUGCCUGCCUGUC ACCGGAGGCGGGGGAUGCGUUG G
AC_000170.1_13351	AATAGTT CGTTCG GGTTTAT C	AC_0 0017 0.1_1 3351	AAUAGUUCGUUCGGGUUAUCC AUAACACCUUAACGAACUUUGU G
AC_000170.1_13351*	TAACAC CTTAAC GAACTT TGTG	AC_0 0017 0.1_1 3351	AAUAGUUCGUUCGGGUUAUCC AUAACACCUUAACGAACUUUGU G
AC_000170.1_13384*	GCCTGC GCAGAG CCTGCC AGAGA	AC_0 0017 0.1_1 3384	GCCUGCGCAGAGCCUGCCAGAG AGAACAGGGAGUCCUCUCUCUG GCCAGACUGUGAGCAGGCAA
AC_000170.1_13384	TCTGGC CAGACT GTGAGC AGGCAA	AC_0 0017 0.1_1 3384	GCCUGCGCAGAGCCUGCCAGAG AGAACAGGGAGUCCUCUCUCUG GCCAGACUGUGAGCAGGCAA
AC_000170.1_13417*	CATAGTC CACCAG ACAGTC CAATGA AA	AC_0 0017 0.1_1 3417	UCAGGGACUGGGGGGAGUUGGC CUUUGGAUAGAGGUCCACAGCC AUAGUCCACCAGACAGUCCAAU GAAA
AC_000170.1_13417	TCAGGG ACTGGG GGGAGT	AC_0 0017 0.1_1	UCAGGGACUGGGGGGAGUUGGC CUUUGGAUAGAGGUCCACAGCC AUAGUCCACCAGACAGUCCAAU

	TGGC	3417	GAAA
AC_000170.1_13423*	ACTGATT CCTGTCT GTTTCCC TAGA	AC_0 0017 0.1_1 3423	AUGGGCUACAGGCAGAAUCUGG GGCCAGCCACUGAUUCCUGUCU GUUUCCCUAGA
AC_000170.1_13423	ATGGGC TACAGG CAGAAT CTGG	AC_0 0017 0.1_1 3423	AUGGGCUACAGGCAGAAUCUGG GGCCAGCCACUGAUUCCUGUCU GUUUCCCUAGA
AC_000170.1_13425*	AGGAGC CGTGTC CCCCTC A	AC_0 0017 0.1_1 3425	UGGGUGGAACUAGGCAGCCUGG GCCCGUGCCCACACCCAGGAGCC GUGUCCCCCUCA
AC_000170.1_13425	TGGGTG GAACTA GGCAGC CTGG	AC_0 0017 0.1_1 3425	UGGGUGGAACUAGGCAGCCUGG GCCCGUGCCCACACCCAGGAGCC GUGUCCCCCUCA
AC_000170.1_13483*	ATTCCT CCAGGC ATGAAG TAGA	AC_0 0017 0.1_1 3483	UGCAUUGUGAAUGGGGAGACAU GGAGGUUUUUGGAUCUGAUUUG UCCCAUUUCCUCCAGGCAUGA AGUAGA
AC_000170.1_13483	TGCATTG TGAATG GGGAGA CATGG	AC_0 0017 0.1_1 3483	UGCAUUGUGAAUGGGGAGACAU GGAGGUUUUUGGAUCUGAUUUG UCCCAUUUCCUCCAGGCAUGA AGUAGA
AC_000170.1_13536*	TGAGCC TGAGGC CTCCCC	AC_0 0017 0.1_1 3536	UGAGCCUGAGGCCUCCCCAGAU GAGGUAGUAGGUUGUGG

AC_000170.1_13536	TGAGGT AGTAGG TTGTGG	AC_0 0017 0.1_1 3536	UGAGCCUGAGGCCUCCCCAGAU  GAGGUAGUAGGUUGUGG
AC_000170.1_13547*	AAAACT TGAATG AACTTTT TGGC	AC_0 0017 0.1_1 3547	AAUAAGUUCGUUUGGGUUUUUC CAUAAGAUGUAAUGGGAAAACU  UGAAUGAACUUUUUGGC
AC_000170.1_13547>AC_00 0174.1_16244>AC_000165.1 _8867>AC_000181.1_22697	AATAAG TTCGTTT GGGTTTT T	AC_0 0017 0.1_1 3547	AAUAAGUUCGUUUGGGUUUUUC CAUAAGAUGUAAUGGGAAAACU  UGAAUGAACUUUUUGGC
AC_000170.1_13572	AAAAAG GTCGTTC GGGTTTT T	AC_0 0017 0.1_1 3572	AAAAAGGUCGUUCGGGUUUUUG UAGCAGAUGUUCUGGAAAGACC  UGAAUGAACUUUUUG
AC_000170.1_13572*	AAAGAC CTGAAT GAACTT TTTG	AC_0 0017 0.1_1 3572	AAAAAGGUCGUUCGGGUUUUUG UAGCAGAUGUUCUGGAAAGACC  UGAAUGAACUUUUUG
AC_000170.1_13588*	GTGGAA GCATTC AGG	AC_0 0017 0.1_1 3588	GUGGAAGCAUUUCAGGCAGAGG GUACAGUACCUGAAGAGGCCUG  AGGUAGGAGGGUGUAUGG
AC_000170.1_13588	TGAGGT AGGAGG GTGTATG G	AC_0 0017 0.1_1 3588	GUGGAAGCAUUUCAGGCAGAGG GUACAGUACCUGAAGAGGCCUG  AGGUAGGAGGGUGUAUGG
AC_000170.1_13593	ACTCCC	AC_0	ACUCCCGGUGGGCAACGCGCCG

	GGTGGG CAACGC GC	0017 0.1_1 3593	GCCGUGCUUCAAGCUAAUGGA AGGAGGCGCGCUGCAUGCCGGG AGGCU
AC_000170.1_13593*	GCGCTG CATGCC GGGAGG CT	AC_0 0017 0.1_1 3593	ACUCCCGGUGGGCAACGCGCCG GCCGUGCUUCAAGCUAAUGGA AGGAGGCGCGCUGCAUGCCGGG AGGCU
AC_000170.1_13634	AAACCC TGGAGC TTTCATA CACTA	AC_0 0017 0.1_1 3634	GUCUCUGAAAGACCUUUCCTCCG UGUUUGAAGGGCCAGCCGUCC CUUCCAAACCCUGGAGCUUUCA UACACUA
AC_000170.1_13634*	GTCTCTG AAAGAC CTTTCCC CGTGTTT GA	AC_0 0017 0.1_1 3634	GUCUCUGAAAGACCUUUCCTCCG UGUUUGAAGGGCCAGCCGUCC CUUCCAAACCCUGGAGCUUUCA UACACUA
AC_000170.1_13735	CTCCCC GGCATCT CCCCCA	AC_0 0017 0.1_1 3735	CUCCCCGGCAUCUCCCCCACUCU CAGGCACGCUCUCCCCGGUGGU GCAAGGUGUAUCCGCGGAGUC
AC_000170.1_13735*	GTGCAA GGTGTAT CCGCGG AGTC	AC_0 0017 0.1_1 3735	CUCCCCGGCAUCUCCCCCACUCU CAGGCACGCUCUCCCCGGUGGU GCAAGGUGUAUCCGCGGAGUC
AC_000171.1_13806	GCTGAG GAGGAA GAGGAG GGGGA	AC_0 0017 1.1_1 3806	GCUGAGGAGGAAGAGGAGGGGG AGGCGGCGGCAGCAGCAGAGGA GGAGAAGGCGGUGGCCUCUGCG CCCUCUGUCAAGGUGG
AC_000171.1_13806*	TGCGCC	AC_0	GCUGAGGAGGAAGAGGAGGGGG

	CTCTGTC AAGGTG G	0017 1.1_1 3806	AGGCGGCGGCAGCAGCAGAGGA GGAGAAGGCGGUGGCCUCUGCG CCCUCUGUCAAGGUGG
AC_000171.1_13810*	ACCTTAC CTGCCTT CTGAGA AA	AC_0 0017 1.1_1 3810	UCUCGGAACGCAGGUAAGAUGG UCACCAGACCACCUUACCUGCCU UCUGAGAAA
AC_000171.1_13810	TCTCGG AACGCA GGTAAG ATGG	AC_0 0017 1.1_1 3810	UCUCGGAACGCAGGUAAGAUGG UCACCAGACCACCUUACCUGCCU UCUGAGAAA
AC_000171.1_13857	ACAGGA TCGGGG AGGATG GGA	AC_0 0017 1.1_1 3857	UCGGAGAUGAUUCUGGGAAGGA GAACCACAGGAUCGGGGAGGAU GGGA
AC_000171.1_13857*	TCGGAG ATGATTC TGGGA	AC_0 0017 1.1_1 3857	UCGGAGAUGAUUCUGGGAAGGA GAACCACAGGAUCGGGGAGGAU GGGA
AC_000171.1_13907	CGGGAC TGGGGG GTGGGG GCGGA	AC_0 0017 1.1_1 3907	UGCCCAGCCAUACUGUUAGUCU CUGCCUAAAGUACAUUCUAAU AAAGCAAAGGCGGGACUGGGGG GUGGGGGCGGA
AC_000171.1_13907*	TGCCCA GCCATAC TGTTAGT CTCTGCC	AC_0 0017 1.1_1 3907	UGCCCAGCCAUACUGUUAGUCU CUGCCUAAAGUACAUUCUAAU AAAGCAAAGGCGGGACUGGGGG GUGGGGGCGGA
AC_000171.1_13919	TCAAAA GCGAGG	AC_0 0017	UGUUUGGGCCUCACUCCCAGAU GGUCUGAUUUAACUCAUAAAA

	CCTGGG CATC	1.1_1 3919	GCGAGGCCUGGGCAUC
AC_000171.1_13919*	TGTTTGG GCCTCA CTCCCA GATG	AC_0 0017 1.1_1 3919	UGUUUGGGCCUCACUCCCAGAU GGUCUGAUUUAAACUCAUAAAA GCGAGGCCUGGGCAUC
AC_000171.1_13921	AGCAGC AGTGTA CAGGGC TCTG	AC_0 0017 1.1_1 3921	GAGUAUUUUGUACAGUUGUUUG UGGCCAUUUUACAUCCCAGCAG CAGUGUACAGGGCUCUG
AC_000171.1_13921*	GAGTATT TTGTACA GTTGTTT GTGG	AC_0 0017 1.1_1 3921	GAGUAUUUUGUACAGUUGUUUG UGGCCAUUUUACAUCCCAGCAG CAGUGUACAGGGCUCUG
AC_000171.1_13936	CGCGGC GCGCCC TGGACG GCGGA	AC_0 0017 1.1_1 3936	CGCGGCGCGCCCUGGACGGCGG AACCCGCUGCCUUCUACGAGCCC GGCCGCG
AC_000171.1_13936*	TCTACG AGCCCG GCCGCG	AC_0 0017 1.1_1 3936	CGCGGCGCGCCCUGGACGGCGG AACCCGCUGCCUUCUACGAGCCC GGCCGCG
AC_000171.1_14018	AAAAAG TTCGTTG GGTTTTT	AC_0 0017 1.1_1 4018	AAAAAGUUCGUUGGGUUUUUCC AUUGCAUCUUAUGGAAAAAUCU GAAUGACCUUGUUGG
AC_000171.1_14018*	AAATCT GAATGA CCTTGTT	AC_0 0017 1.1_1	AAAAAGUUCGUUGGGUUUUUCC AUUGCAUCUUAUGGAAAAAUCU GAAUGACCUUGUUGG



	GG	4018	
AC_000171.1_14048*	AAAACC CGAGCA AACTTCT TGG	AC_0 0017 1.1_1 4048	AAGAAGUUCGUUCAGGUUUUUC CAU AACAGCUUACAGAAAACC CGAGCAAACUUCUUGG
AC_000167.1_11053>AC_00 0171.1_14048	AAGAAG TTCGTTT AGGTTTT TC	AC_0 0017 1.1_1 4048	AAGAAGUUCGUUCAGGUUUUUC CAU AACAGCUUACAGAAAACC CGAGCAAACUUCUUGG
AC_000171.1_14080	AAGAGT TTGTTCG GGTTTTT CT	AC_0 0017 1.1_1 4080	AAGAGUUUGUUCGGGUUUUUCU GUACCAUUUAUGGAGAAACCC GCGCAUACUUUUUUUG
AC_000171.1_14080*	AGAAAC CCGCGC ATACTTT TTTTG	AC_0 0017 1.1_1 4080	AAGAGUUUGUUCGGGUUUUUCU GUACCAUUUAUGGAGAAACCC GCGCAUACUUUUUUUG
AC_000171.1_14105*	ACTCAC TCCCCA CGTTCCC AAGTC	AC_0 0017 1.1_1 4105	ACUCACUCCCCACGUUCCCAAGU CAAGCUGCCCUCCCGCACAUCAG GGAGUGGCCACGCCAUUCCUUG GGGGGCAGAGGGGUGC
AC_000171.1_14105	CTTGGG GGGCAG AGGGGT GC	AC_0 0017 1.1_1 4105	ACUCACUCCCCACGUUCCCAAGU CAAGCUGCCCUCCCGCACAUCAG GGAGUGGCCACGCCAUUCCUUG GGGGGCAGAGGGGUGC
AC_000171.1_14154*	ATCTTGG GCCAGA GGTCAA CGGGGC	AC_0 0017 1.1_1 4154	CCUGGGGCUGUGGAAGGAGGC UGUGUGGGAGGGGCAUCUUGGG CCAGAGGUCAACGGGGCG

	G		
NW_003099614.1_27214>A C_000171.1_14154	CCCTGG GGCTGT GGAAGG AGGC	AC_0 0017 1.1_1 4154	CCCUGGGGCUGUGGAAGGAGGC UGUGUGGGAGGGGCAUCUUGGG CCAGAGGUCAACGGGGCG
AC_000171.1_14197	CGGGGA CTGGGG AGGGCA GGAGA	AC_0 0017 1.1_1 4197	CGGGGACUGGGGAGGGCAGGAG AUGCAUCUGGCCUGGCAUCCC AGCCCGGA
AC_000171.1_14197*	TCTGGC CCTGGC ATCCCA GCCCGG A	AC_0 0017 1.1_1 4197	CGGGGACUGGGGAGGGCAGGAG AUGCAUCUGGCCUGGCAUCCC AGCCCGGA
AC_000171.1_14322*	GCATTCA CCGCGT GCCTTA ATT	AC_0 0017 1.1_1 4322	GCAUUCACCGCGUGCCUAAAU GUAUGACAUUAAAUCAAGGUCC GCUGUGAACACGG
AC_000171.1_14322	TCAAGG TCCGCT GTGAAC ACGG	AC_0 0017 1.1_1 4322	GCAUUCACCGCGUGCCUAAAU GUAUGACAUUAAAUCAAGGUCC GCUGUGAACACGG
AC_000171.1_14336	CGGCGG CGGCGG CGACTC C	AC_0 0017 1.1_1 4336	UGCCGCCGCCGCCGCCUCCUCCA GAGGCUCCGCAGACUCCGCCGUC UCUGGCAGCGGCGGCGGGCG ACUCC
AC_000171.1_14336*	TGCCGC CGCCGC CGCCTC	AC_0 0017 1.1_1	UGCCGCCGCCGCCGCCUCCUCCA GAGGCUCCGCAGACUCCGCCGUC UCUGGCAGCGGCGGCGGGCG

	C	4336	ACUCC
AC_000171.1_14340	CGGGAG AAGGAA GGGCTT	AC_0 0017 1.1_1 4340	GCGCUUUCUUUCCGCUUGGCC GCGGGAGAAGGAAGGGCUU
AC_000171.1_14340*	GCGCTTT CTTTTCC GCT	AC_0 0017 1.1_1 4340	GCGCUUUCUUUCCGCUUGGCC GCGGGAGAAGGAAGGGCUU
AC_000171.1_14343>AC_00 0183.1_24077	AAAAAT TTCGTTC GGGTTTT T	AC_0 0017 1.1_1 4343	AAAAAUUCGUUCGGGUUUUUC CGUAUGAUGUCACAGAAAACC CAAACAAACUUUUUGG
AC_000168.1_11260*>AC_0 00171.1_14343*>AC_000180 .1_22115*	AAAACC CAAACA AACTTTT TGG	AC_0 0017 1.1_1 4343	AAAAAUUCGUUCGGGUUUUUC CGUAUGAUGUCACAGAAAACC CAAACAAACUUUUUGG
AC_000171.1_14442	CCTGTG GGTGGG GGAGTC GGGA	AC_0 0017 1.1_1 4442	CUGACCUCCCACUCAGUGAGGG GGCGGGGCAUUCGGGGGUGGGGA AGACUCCUGCAUCAGAAACCU GUGGGUGGGGGAGUCGGGA
AC_000171.1_14442*	CTGACC TCCCCT CAGTGA GGGG	AC_0 0017 1.1_1 4442	CUGACCUCCCACUCAGUGAGGG GGCGGGGCAUUCGGGGGUGGGGA AGACUCCUGCAUCAGAAACCU GUGGGUGGGGGAGUCGGGA
AC_000171.1_14447	CAGGAG TGGGATT GCTGGG T	AC_0 0017 1.1_1 4447	GUCCAGUUUCCCAGGGAGGGG UGCACGUAUCUUUUUGAAUUAG GGUUUUCUCCAGAUACAUGCCC AGGAGUGGGAUUGCUGGGU

AC_000171.1_14447*	GTCCAG TTTTCCC AGGGAG	AC_0 0017 1.1_1 4447	GUCCAGUUUCCCAGGGAGGGG UGCACGUAUCUUUUUGAAUUAG GGUUUUCUCCAGAUACAUGCCC AGGAGUGGGAUUGCUGGGU
AC_000171.1_14457	AAAAAG TTAGTTT AGGTTTT TC	AC_0 0017 1.1_1 4457	AAAAAGUUAGUUUAGGUUUUUC CAUAAGAUGUUACAGGAAAACU UGAACAAACUUU
AC_000171.1_14457*	AAAACT TGAACA AACTTT	AC_0 0017 1.1_1 4457	AAAAAGUUAGUUUAGGUUUUUC CAUAAGAUGUUACAGGAAAACU UGAACAAACUUU
AC_000171.1_14463*	AAAACA TGAATG AACGTT TTG	AC_0 0017 1.1_1 4463	AAAAGUUCUCCGGGUUUUUC AUAAAUGUAGUGGAAAACA GAAUGAACGUUUUG
AC_000171.1_14463	AAAAGT TCTCCG GGTTTT C	AC_0 0017 1.1_1 4463	AAAAGUUCUCCGGGUUUUUC AUAAAUGUAGUGGAAAACA GAAUGAACGUUUUG
AC_000171.1_14499*	AACCAA ACAAAC TTCCGG	AC_0 0017 1.1_1 4499	GAAAAGUUGGUUUGGUUUUUC CGUAAGGUGGUAUGGAAAACCA AACAAACUUCCGG
AC_000171.1_14499	GAAAAG TTGGTTT GGTTTT T	AC_0 0017 1.1_1 4499	GAAAAGUUGGUUUGGUUUUUC CGUAAGGUGGUAUGGAAAACCA AACAAACUUCCGG
AC_000172.1_14543	AGGCTG	AC_0	GAACCUCUUCUCCUCCUCUCU

	GGAAAG AGGAGG TTCAA	0017 2.1_1 4543	GCGGGUUAGAGGCUGGGAAAGA GGAGGUUCA
AC_000172.1_14543*	GAACCT CTTCTTC CTTCCTC T	AC_0 0017 2.1_1 4543	GAACCUCUUCUCCUCCUCUCU GCGGGUUAGAGGCUGGGAAAGA GGAGGUUCA
AC_000172.1_14545	CTGGGT GGGCTG GGGCGG AAG	AC_0 0017 2.1_1 4545	GCCGCUCUCGGGGCCUAAGCGG GAGCGGCUGGGACGGCGUCACU GGGUGGGCUGGGGCGGAAG
AC_000172.1_14545*	GCCGCT CTCGGG GCCTAA GCGGGA	AC_0 0017 2.1_1 4545	GCCGCUCUCGGGGCCUAAGCGG GAGCGGCUGGGACGGCGUCACU GGGUGGGCUGGGGCGGAAG
AC_000172.1_14566	AAAAGT TCGTTCA GGGTTTT	AC_0 0017 2.1_1 4566	AAAAGUUCGUUCAGGGUUUCC AUACGCUCUUAUGGCAAAAUCU GAAUGCACUUUUUG
AC_000172.1_14566*	AAAATC TGAATG CACTTTT TG	AC_0 0017 2.1_1 4566	AAAAGUUCGUUCAGGGUUUCC AUACGCUCUUAUGGCAAAAUCU GAAUGCACUUUUUG
AC_000172.1_14580	AAACGT TCTTTTG GGTTTT	AC_0 0017 2.1_1 4580	AAACGUUCUUUUGGGUUUUUCU AUAACAUCUUAUGGAAAAACCC AAACGAACCUUUUG
AC_000172.1_14580*	AACCCA AACGAA	AC_0 0017	AAACGUUCUUUUGGGUUUUUCU AUAACAUCUUAUGGAAAAACCC

	CCTTTTG	2.1_1 4580	AAACGAACCUUUUG
AC_000172.1_14609	GCAGGG CTGTGA GGAGGG GATGGG C	AC_0 0017 2.1_1 4609	UGGGACCUGUGCUCAGGGUCCC UGCGCUGGGGGUACAGUCAGCA GGGCUGUGAGGAGGGGAUGGGC
AC_000172.1_14609*	TGGGAC CTGTGCT CAGGGT CCCTGC GC	AC_0 0017 2.1_1 4609	UGGGACCUGUGCUCAGGGUCCC UGCGCUGGGGGUACAGUCAGCA GGGCUGUGAGGAGGGGAUGGGC
AC_000162.1_5661>AC_000 172.1_14626	AAAAGA TTTGTTT GGGTTTT	AC_0 0017 2.1_1 4626	AAAAGAUUUGUUUGGGUUUCC CAUAACAUCAUACAGGAAAACC CGAACGAACCUUUUGG
AC_000172.1_14626*	AACCCG AACGAA CCTTTTG G	AC_0 0017 2.1_1 4626	AAAAGAUUUGUUUGGGUUUCC CAUAACAUCAUACAGGAAAACC CGAACGAACCUUUUGG
AC_000172.1_14662*	AACAGC ATCGTG GGCCTC CGGT	AC_0 0017 2.1_1 4662	AGAGGACCACUUGCUGCUGAUG GAAACGAAGAGGAUGCUCCAAC AGCAUCGUGGGCCUCCGGU
AC_000172.1_14662	AGAGGA CCACTT GCTGCT GATGGA	AC_0 0017 2.1_1 4662	AGAGGACCACUUGCUGCUGAUG GAAACGAAGAGGAUGCUCCAAC AGCAUCGUGGGCCUCCGGU
AC_000172.1_14690	AAGGCA	AC_0	AAGGCAGACUUCUUUAAACUUU

	GACTTCT TTAAACT TT	0017 2.1_1 4690	GUGUUUUUAUGUUUGCAAUUUU CCAUAUAUAAAAGUUUAAAAGAA GUCUGCCUUGC
AC_000172.1_14690*	AAGTTT AAAGAA GTCTGC CTTGC	AC_0 0017 2.1_1 4690	AAGGCAGACUUCUUUAAACUUU GUGUUUUUAUGUUUGCAAUUUU CCAUAUAUAAAAGUUUAAAAGAA GUCUGCCUUGC
AC_000172.1_14714	AAAACC TGAATG AACTTTT CGG	AC_0 0017 2.1_1 4714	AAAAGGUUCAUUUGGGGUUUC CGUAAGAUGUUACAAAAAACCU GAAUGAACUUUUCGG
AC_000172.1_14714*	AAAAGG TTCATTT GGGGTT TCCC	AC_0 0017 2.1_1 4714	AAAAGGUUCAUUUGGGGUUUC CGUAAGAUGUUACAAAAAACCU GAAUGAACUUUUCGG
AC_000172.1_14721	AAAAAG TTCGTTC GATTTTT C	AC_0 0017 2.1_1 4721	AAAAAGUUCGUUCGAUUUUUUC UUAAGAUUAUACGGGAAAACCC GAAGGAACUUUUU
AC_000172.1_14721*	GAAAAC CCGAAG GAACTT TTT	AC_0 0017 2.1_1 4721	AAAAAGUUCGUUCGAUUUUUUC UUAAGAUUAUACGGGAAAACCC GAAGGAACUUUUU
AC_000172.1_14757*	CTGGGC AACGGC TCCTTCA TCG	AC_0 0017 2.1_1 4757	CUGGGCAACGGCUCCUUCAUCG AGCACCUCCCAGGCCGGCUGUG GGAGGGCAGCACCAGGUGAGGG CGUGGUGGUGAGGCU
AC_000172.1_14757	GTGAGG GCGTGG	AC_0 0017	CUGGGCAACGGCUCCUUCAUCG AGCACCUCCCAGGCCGGCUGUG

	TGGTGA GGCT	2.1_1 4757	GGAGGGCAGCACCAGGUGAGGG CGUGGUGGUGAGGCU
AC_000172.1_14768	AAAGGT TCGTTCA GGTTTT	AC_0 0017 2.1_1 4768	AAAGGUUCGUUCAGGUUUUCCC AUAUGAUGUAUGUUUGGAAAAC ACCCGAAUGAACAUUCUG
AC_000172.1_14768*	AACACC CGAATG AACATTC TG	AC_0 0017 2.1_1 4768	AAAGGUUCGUUCAGGUUUUCCC AUAUGAUGUAUGUUUGGAAAAC ACCCGAAUGAACAUUCUG
AC_000172.1_14773	TTCAGT GATGAC ACGATG ACGAGT	AC_0 0017 2.1_1 4773	UUGUCCUUGUCUCAGCCACUGG UGUACCCUUCAGUGAUGACACG AUGACGAGU
AC_000172.1_14773*	TTGTCCT TGTCTCA GCCACT GGTGT	AC_0 0017 2.1_1 4773	UUGUCCUUGUCUCAGCCACUGG UGUACCCUUCAGUGAUGACACG AUGACGAGU
AC_000172.1_14830*	CGACTA AGGCGA CTTAGCT TAGC	AC_0 0017 2.1_1 4830	UAGGGGGUCACAUAGAGUCGGA CACGACUAAGGCGACUUAGCUU AGC
AC_000172.1_14830	TAGGGG GTCACAT AGAGTC GGA	AC_0 0017 2.1_1 4830	UAGGGGGUCACAUAGAGUCGGA CACGACUAAGGCGACUUAGCUU AGC
AC_000172.1_14845	GAAATA GGTTGG GGGGAC	AC_0 0017 2.1_1	UGUCCCCUCCUCUUAUUAAGA AGCCUCGGAAAUAGGUUGGGGG GACACU



	ACT	4845	
AC_000172.1_14845*	TGTCCCC TCCCTCT TATTAAG A	AC_0 0017 2.1_1 4845	UGUCCCCUCCUCUUAUUAAGA AGCCUCGGAAAUAGGUUGGGGG GACACU
AC_000172.1_14855*	CAGGCC CCCTTCC TGGCCA GACA	AC_0 0017 2.1_1 4855	CAGGCCCCCUUCCUGGCCAGACA CACCAGAGCCUGGACAAGAAGG AGGCCCCAA
AC_000172.1_14855	CCTGGA CAAGAA GGAGGC CCCAA	AC_0 0017 2.1_1 4855	CAGGCCCCCUUCCUGGCCAGACA CACCAGAGCCUGGACAAGAAGG AGGCCCCAA
AC_000172.1_14892>AC_00 0187.1_26511	AAAAAG GTCGTTC AGGTTTT	AC_0 0017 2.1_1 4892	AAAAAGGUCGUUCAGGUUUUCC CGUAAGAU AUGGAAAAACUUGA AUA AACUUUUUGG
AC_000172.1_14892*	AACTTG AATAAA CTTTTTG G	AC_0 0017 2.1_1 4892	AAAAAGGUCGUUCAGGUUUUCC CGUAAGAU AUGGAAAAACUUGA AUA AACUUUUUGG
AC_000172.1_14910*	CTCCCTA ACCCTG CAGACA GG	AC_0 0017 2.1_1 4910	UGCUCAGGGCUGGUUGUUGGUU ACACCCACAUCUCCUUGAGGAU GGGUGGGCCCUCCUAACCCUGC AGACAGG
AC_000172.1_14910	TGCTCA GGGCTG GTTGTTG G	AC_0 0017 2.1_1 4910	UGCUCAGGGCUGGUUGUUGGUU ACACCCACAUCUCCUUGAGGAU GGGUGGGCCCUCCUAACCCUGC AGACAGG

AC_000172.1_15022	CAAAC ACGGC TGTGG TGACG A	AC_0 0017 2.1_1 5022	UGUCCAAACCCAUGAAGGUGC AGCAGCAAGAGUGAAGCCUGAU GCAAACUACGGGCUGUGGGUGA CGGA
AC_000172.1_15022*	TGTCCA AACCCA TAGAAG GTGCAG CAGCA	AC_0 0017 2.1_1 5022	UGUCCAAACCCAUGAAGGUGC AGCAGCAAGAGUGAAGCCUGAU GCAAACUACGGGCUGUGGGUGA CGGA
AC_000172.1_15029*	AAAAAC CCGAGT GAACTT TTTG	AC_0 0017 2.1_1 5029	AACAAGUUUGUUUGGGUUUCC AUAAGAGGGUAUAGAAAAACCC GAGUGAACUUUUUG
AC_000172.1_15029	AACAAG TTTGTTT GGGTTTT C	AC_0 0017 2.1_1 5029	AACAAGUUUGUUUGGGUUUCC AUAAGAGGGUAUAGAAAAACCC GAGUGAACUUUUUG
AC_000172.1_15059	AAAGGT TCGTTCG GGTTTT	AC_0 0017 2.1_1 5059	AAAGGUUCGUUCGGGUUUUCCU GUAUGAUGUUAUGGGAAAACCC AAACAAAUCUUUUUG
AC_000172.1_15059*	AACCCA AACAAA TCTTTTG	AC_0 0017 2.1_1 5059	AAAGGUUCGUUCGGGUUUUCCU GUAUGAUGUUAUGGGAAAACCC AAACAAAUCUUUUUG
AC_000172.1_15074	CAGGAA GTGGTC GGGGAT	AC_0 0017 2.1_1	CCAUCCCUACUCCUGGCUCUGUC UGCUGACCUCACAGUGCUCAC AGGCACAGGAAGUGGUCGGGGA

	GTCA	5074	UGUCA
AC_000172.1_15074*	CCATCCC TACTCCT GGC	AC_0 0017 2.1_1 5074	CCAUCCCUACUCCUGGCUCUGUC UGCUGACCUCACAGUGCUCAC AGGCACAGGAAGUGGUCGGGA UGUCA
AC_000172.1_15078*	CAGGGT GGGGAT GGAGGT GGAGC	AC_0 0017 2.1_1 5078	CAGGGUGGGGAUGGAGGUGGAG CUGAGACCCACCGAACCCUUCUC CCCUUCCUCCUGCCCAGG
AC_000172.1_15078	TCTCCCC TTCCTCC CTGCCC AGG	AC_0 0017 2.1_1 5078	CAGGGUGGGGAUGGAGGUGGAG CUGAGACCCACCGAACCCUUCUC CCCUUCCUCCUGCCCAGG
AC_000172.1_15157*	AAGTTT AAAGAA GTCTGC CTTGT	AC_0 0017 2.1_1 5157	AGGCAGACUUCUUAAACUUUA UAUUAUGGAAAAUUGCAAACAU AAAAACACAAAGUUUAAAGAAG UCUGCCUUGU
AC_000172.1_15157	AGGCAG ACTTCTT TAAACTT	AC_0 0017 2.1_1 5157	AGGCAGACUUCUUAAACUUUA UAUUAUGGAAAAUUGCAAACAU AAAAACACAAAGUUUAAAGAAG UCUGCCUUGU
AC_000172.1_15174*	GCAGTT TCTCCTC TCCGTG AGC	AC_0 0017 2.1_1 5174	GCAGUUUCUCCUCUCCGUGAGC CUGGCAGACGCUCACGGAGAGG AGAAACUGCGA
AC_000172.1_15174	TCACGG AGAGGA GAAACT GCGA	AC_0 0017 2.1_1 5174	GCAGUUUCUCCUCUCCGUGAGC CUGGCAGACGCUCACGGAGAGG AGAAACUGCGA

AC_000172.1_15184	AAA AACT GAACAA GCTTTTT GGC	AC_0 0017 2.1_1 5184	AAAGUUCGUUCAGGUUUUUAGA UACAGUGUUUGGAAAAAACUGA ACAAGCUUUUUGGC
AC_000177.1_19362>AC_00 0172.1_15184*	AAAGTT CGTTCA GGTTTTT	AC_0 0017 2.1_1 5184	AAAGUUCGUUCAGGUUUUUAGA UACAGUGUUUGGAAAAAACUGA ACAAGCUUUUUGGC
AC_000172.1_15186*>AC_0 00176.1_18449*	GTCGAG GCTAGA GTCACG CTTGGG TAT	AC_0 0017 2.1_1 5186	GUCGAGGCUAGAGUCACGCUUG GGUAUCCACUGUUGCCUAGUG UGCUAGAGUCCUCGAAG
AC_000172.1_15186	TAGTGT GCTAGA GTCCTC GAAG	AC_0 0017 2.1_1 5186	GUCGAGGCUAGAGUCACGCUUG GGUAUCCACUGUUGCCUAGUG UGCUAGAGUCCUCGAAG
AC_000172.1_15210*	ACCCCA CCCCCTC CCTAGA GG	AC_0 0017 2.1_1 5210	ACCCACCCCUCCCUAGAGGAG AUGGUACAAGUGGCAAUGAGAG UGCAACAGACCAGGGUGUCUGC CUCCUGGGGGUCGGGGAGGGGG UGC
AC_000172.1_15210	TCCTGG GGGTCG GGGAGG GGGTGC	AC_0 0017 2.1_1 5210	ACCCACCCCUCCCUAGAGGAG AUGGUACAAGUGGCAAUGAGAG UGCAACAGACCAGGGUGUCUGC CUCCUGGGGGUCGGGGAGGGGG UGC
AC_000172.1_15215	AAGGGG ATAGAG	AC_0 0017	AAGGGGAUAGAGGCAAGGGACU CUGGUCAUCAUUUGCUCUGCCC

	GCAAGG GACT	2.1_1 5215	AUGUCCCCUAG
AC_000172.1_15215*	TTGCTCT GCCCAT GTCCCCT AG	AC_0 0017 2.1_1 5215	AAGGGGAUAGAGGCAAGGGACU CUGGUCAUCAUUUGCUCUGCCC AUGUCCCCUAG
AC_000172.1_15243*	TCTACTT CCCTGCT ACCTGC C	AC_0 0017 2.1_1 5243	UUGGUAGACGGGAAGGACUGGG AGAAGAGGUCCUUCUACUUCCC UGCUACCUGCC
AC_000172.1_15243	TTGGTA GACGGG AAGGAC TGG	AC_0 0017 2.1_1 5243	UUGGUAGACGGGAAGGACUGGG AGAAGAGGUCCUUCUACUUCCC UGCUACCUGCC
AC_000173.1_15320*	AAAGAA CTCCACT CTCCTCT CGAG	AC_0 0017 3.1_1 5320	CGAAAGGUAUCUCGGGGUUGCA UUCAAGGUUCACCAGGGAGUCA GGCCUGGUCUCAUCUGGAAGCA AAGAACUCCACUCUCCUCUCGA G
AC_000173.1_15320	CGAAAG GTATCTC GGGGTT GC	AC_0 0017 3.1_1 5320	CGAAAGGUAUCUCGGGGUUGCA UUCAAGGUUCACCAGGGAGUCA GGCCUGGUCUCAUCUGGAAGCA AAGAACUCCACUCUCCUCUCGA G
AC_000173.1_15395>AC_00 0179.1_20793	AAAAGC CAGAAT GAACTT TTT	AC_0 0017 3.1_1 5395	AAAGUUCAUUUGGAUUUGUCCA UAAGAUACUUGGAAAAGCCAG AAUGAACUUUUU
AC_000173.1_15395*	AAAGTT	AC_0	AAAGUUCAUUUGGAUUUGUCCA

	CATTTGG ATTTGTC C	0017 3.1_1 5395	UAAGAUUCUUGGAAAAGCCAG AAUGAACUUUUU
AC_000173.1_15401*	AAAGTA ACAGCA TCTCCAC TGGA	AC_0 0017 3.1_1 5401	AAAGUACAGCAUCUCCACUGG AAAUUGACGCACAGUCCACAUG GAGUUGCUGUUACAAUCG
AC_000173.1_15401	ACATGG AGTTGC TGTTACA ATCG	AC_0 0017 3.1_1 5401	AAAGUACAGCAUCUCCACUGG AAAUUGACGCACAGUCCACAUG GAGUUGCUGUUACAAUCG
AC_000173.1_15414*	CCGGGG GGCGCA GGCCGG TAGG	AC_0 0017 3.1_1 5414	GGGCGGCGGCGGCGCCGGGGCA UCGCCGGGGCGGGAGCGGGAGC UCGGCCGCCCCGCAAGCCGACCC GGGGGGCGCAGGCCGGUAGG
AC_000173.1_15414	GGGCGG CGGCGG CGCCGG GGC	AC_0 0017 3.1_1 5414	GGGCGGCGGCGGCGCCGGGGCA UCGCCGGGGCGGGAGCGGGAGC UCGGCCGCCCCGCAAGCCGACCC GGGGGGCGCAGGCCGGUAGG
AC_000173.1_15604	AAGGGG ACCAGG GATACA GGCT	AC_0 0017 3.1_1 5604	AAGGGGACCAGGGAUACAGGCU CUCUAUUUGAUCCUCUGUUCUG AGAAUGGCAUCUCUGGACCCCU CA
AC_000173.1_15604*	GAATGG CATCTCT GGACCC CTCA	AC_0 0017 3.1_1 5604	AAGGGGACCAGGGAUACAGGCU CUCUAUUUGAUCCUCUGUUCUG AGAAUGGCAUCUCUGGACCCCU CA
AC_000173.1_15633	CGGCGG CAGAGT	AC_0 0017	UCCCCUCCUCUCUCCGCUCCUC CGCCUGUUCCUCCGCCUCCUCC

	GAACGG GACG	3.1_1 5633	AGGGCUUCGGCGGGCAGAGU GAACGGGACG
AC_000173.1_15633*	TCCCCTC CTCTCTC CGCTCC C	AC_0 0017 3.1_1 5633	UCCCCUCCUCUCUCCGCUCCUC CGCCUGUUCCCUCCGCCUCC AGGGCUUCGGCGGGCAGAGU GAACGGGACG
AC_000173.1_15640	AAAAAT TTCGTTT GGGTTTT	AC_0 0017 3.1_1 5640	AAAAAUUCGUUCGGGUUUUCC AUGAACUGGGUGGACAACCCAA AUGAAUUUUUUCG
AC_000173.1_15640*	AACCCA AATGAAT TTTTTCG	AC_0 0017 3.1_1 5640	AAAAAUUCGUUCGGGUUUUCC AUGAACUGGGUGGACAACCCAA AUGAAUUUUUUCG
AC_000173.1_15666	AAAAGT TCGTTTG GGTTTTT	AC_0 0017 3.1_1 5666	AAAAGUUCGUUUGGGUUUUUCU GUAAGAUGGUUUGGAAAAAUCC AAAUGAACUUUCUG
AC_000173.1_15666*	AAATCC AAATGA ACTTTCT G	AC_0 0017 3.1_1 5666	AAAAGUUCGUUUGGGUUUUUCU GUAAGAUGGUUUGGAAAAAUCC AAAUGAACUUUCUG
AC_000173.1_15670	GCGGAG GAGGAG AGAAGC GCAGT	AC_0 0017 3.1_1 5670	GCGGAGGAGGAGAGAAGCGCAG UGCCGCGCCGCGCCGGGGCCCAU GUGGGGAGGAGUCGGAGUCGCU GUUGCCGCGCCGCG
AC_000173.1_15670*	TCGCTGT TGCCGC CGCCGC	AC_0 0017 3.1_1	GCGGAGGAGGAGAGAAGCGCAG UGCCGCGCCGCGCCGGGGCCCAU GUGGGGAGGAGUCGGAGUCGCU

	CG	5670	GUUGCCGCCGCCGCCG
AC_000173.1_15673	AAAGCT GGGTTG AGAGGA AA	AC_0 0017 3.1_1 5673	CUGUCUGAGCGUCAGGGAAAGU UCCUGAGAGGAGAAAGCUGGG UUGAGAGGAAA
AC_000173.1_15673*	CTGTCTG AGCGTC AGGGAA AGTTT	AC_0 0017 3.1_1 5673	CUGUCUGAGCGUCAGGGAAAGU UCCUGAGAGGAGAAAGCUGGG UUGAGAGGAAA
AC_000173.1_15686*	AAAAAC CCAATG AACTTTT T	AC_0 0017 3.1_1 5686	AAAAGUUUGUUAGGAUUUUCUG UAACAUGUUAUGGAAAAACCCA AUGAACUUUUU
AC_000173.1_15686	AAAAGT TTGTTAG GATTTTC	AC_0 0017 3.1_1 5686	AAAAGUUUGUUAGGAUUUUCUG UAACAUGUUAUGGAAAAACCCA AUGAACUUUUU
AC_000173.1_15716*	AGGGTC TGTCTCT GCCACT GC	AC_0 0017 3.1_1 5716	UCAGUGGCAGAGUGCAGGGACC UCGCGACCAGAGAGGAGGGUCU GUCUCUGCCACUGC
AC_000173.1_15716	TCAGTG GCAGAG TGCAGG GACCTC	AC_0 0017 3.1_1 5716	UCAGUGGCAGAGUGCAGGGACC UCGCGACCAGAGAGGAGGGUCU GUCUCUGCCACUGC
AC_000173.1_15830*	AGATCC CAGACA CCGCAC CCAA	AC_0 0017 3.1_1 5830	AGAUCCAGACACCGCACCCAAU CCCAGGCUGGGGGUGGGGGCG GGGGGAGGUCUUU



AC_000173.1_15830	GGGGGC GGGGGG AGGTCT TT	AC_0 0017 3.1_1 5830	AGAUSCCAGACACCCGACCCCAAU CCCAGGCUGGGGGGUGGGGGCG GGGGGAGGUCUUU
AC_000173.1_15858	AAAAAA CCGAGT GGACTT TTT	AC_0 0017 3.1_1 5858	AAAAGUUCAUAGGGUUUUUCU GUGAGAUGGGAUGGAAAAAACC GAGUGGACUUUUU
AC_000173.1_15858*	AAAAGT TCATTAG GGTTTTT C	AC_0 0017 3.1_1 5858	AAAAGUUCAUAGGGUUUUUCU GUGAGAUGGGAUGGAAAAAACC GAGUGGACUUUUU
AC_000173.1_15875	CGGGGT GGCGGG GGGGCA GGGCG	AC_0 0017 3.1_1 5875	CGGGGUGGCGGGGGGGCAGGGC GUGGUGAAGUAAGGUGAAUGCC CGAGCGGGCUUCCCGGAGCCAU GGCCUGCUCCAUUGUCCAGUUC UGCU
AC_000173.1_15875*	GCCTGC TCCATTG TCCAGTT CTGCT	AC_0 0017 3.1_1 5875	CGGGGUGGCGGGGGGGCAGGGC GUGGUGAAGUAAGGUGAAUGCC CGAGCGGGCUUCCCGGAGCCAU GGCCUGCUCCAUUGUCCAGUUC UGCU
AC_000173.1_15920	AAAACT CGAACG AATTTTT GGCC	AC_0 0017 3.1_1 5920	CCAGAAAUUCGUUCGGCUUUC CAUAACAUCUACGGGAAAACU CGAACGAAUUUUUGGCC
AC_000173.1_15920*	CCAGAA AATTCGT TCGGCTT	AC_0 0017 3.1_1	CCAGAAAUUCGUUCGGCUUUC CAUAACAUCUACGGGAAAACU CGAACGAAUUUUUGGCC

	T	5920	
AC_000173.1_15923	CTCTGG GGAGAG GGTCGT TGT	AC_0 0017 3.1_1 5923	CUCUGGGGAGAGGGUCGUUGUC UCUGUGCGGCGGUCCCCCCCACC UGC GGACGGGAAGCCGGUGGGA GAGGACGAUGGCCGGAGGG
AC_000173.1_15923*	GACGAT GGCCGG AGGG	AC_0 0017 3.1_1 5923	CUCUGGGGAGAGGGUCGUUGUC UCUGUGCGGCGGUCCCCCCCACC UGC GGACGGGAAGCCGGUGGGA GAGGACGAUGGCCGGAGGG
AC_000173.1_15947	AAAAGC TCGTTCG GGTTTTT CT	AC_0 0017 3.1_1 5947	AAAAGCUCGUUCGGGUUUUUCU AUAGACGCUUAUGGGAAAACCU GAAAGAACUUCUUGGC
AC_000173.1_15947*	AAACCT GAAAGA ACTTCTT GGC	AC_0 0017 3.1_1 5947	AAAAGCUCGUUCGGGUUUUUCU AUAGACGCUUAUGGGAAAACCU GAAAGAACUUCUUGGC
AC_000173.1_15950	CCACGG GCTGGG GGGCAG GTCT	AC_0 0017 3.1_1 5950	GCCUGCUCUCCAGUCCCAGGAC UGGAUAACAGACCACCCAGAAC UGCCCACGGGCUGGGGGGCAGG UCU
AC_000173.1_15950*	GCCTGC TCTTCCA GTCCCA GGAC	AC_0 0017 3.1_1 5950	GCCUGCUCUCCAGUCCCAGGAC UGGAUAACAGACCACCCAGAAC UGCCCACGGGCUGGGGGGCAGG UCU
AC_000173.1_15956	AGAGGA CAGGGG GCAAGG GGAGC	AC_0 0017 3.1_1 5956	AUCUGUAGUCUGCACCACCUCU UGAGAUGGACAAGAGGACAGGG GGCAAGGGGAGC

AC_000173.1_15956*	ATCTGTA GTCTGC ACCACC TCTTG	AC_0 0017 3.1_1 5956	AUCUGUAGUCUGCACCACCUCU UGAGAUGGACAAGAGGACAGGG GGCAAGGGGAGC
AC_000173.1_15959*	CAGCTC TGAGAC GGCCAG TGAG	AC_0 0017 3.1_1 5959	GCAGGGUUGUGGGGGACGUUCC AGGUCCUGGGCACCCCGGGAGG CUGGACAGCUCUGAGACGGCCA GUGAG
AC_000173.1_15959	GCAGGG TTGTGG GGGACG TTC	AC_0 0017 3.1_1 5959	GCAGGGUUGUGGGGGACGUUCC AGGUCCUGGGCACCCCGGGAGG CUGGACAGCUCUGAGACGGCCA GUGAG
AC_000173.1_15979*	CCTCTCC TACCCCC AACCCC TATGAC	AC_0 0017 3.1_1 5979	CUGGGGCUGGGGGACGGGAUGG CUUCCCCUCUCCUACCCCAACC CCUAUGAC
AC_000173.1_15979	CTGGGG CTGGGG GACGGG ATGGC	AC_0 0017 3.1_1 5979	CUGGGGCUGGGGGACGGGAUGG CUUCCCCUCUCCUACCCCAACC CCUAUGAC
AC_000173.1_15988	AGCACC TGCTGT GTCCCC CACAG	AC_0 0017 3.1_1 5988	CUGUGGGGGGCGUGCAGGGGCC GGGAAGCUGUCAAGGACCCAG CACCUGCUGUGUCCCCACAG
AC_000173.1_15988*	CTGTGG GGGGCG TGCAGG GGCCGG G	AC_0 0017 3.1_1 5988	CUGUGGGGGGCGUGCAGGGGCC GGGAAGCUGUCAAGGACCCAG CACCUGCUGUGUCCCCACAG

AC_000173.1_16032*	CCTCCCC TGCCCC AACCCCT CAGACC C	AC_0 0017 3.1_1 6032	CCUCCCCUGCCCCAACCCUCAGA CCCACCUCAAAGGAACGUGGCG GUGAGGUCGGGCAGAAGAGGGA
AC_000173.1_16032>AC_00 0165.1_8952	CGGTGA GGTCGG GCAGAA GAGGGA	AC_0 0017 3.1_1 6032	CCUCCCCUGCCCCAACCCUCAGA CCCACCUCAAAGGAACGUGGCG GUGAGGUCGGGCAGAAGAGGGA
AC_000173.1_16038*	CCAGCC TGCTCTT CTGTCCT	AC_0 0017 3.1_1 6038	CCAGCCUGCUCUUCUGUCCUGG GCUACUUGCACUAGGAGGAGGG GCGCGCUGUGC
AC_000173.1_16038	GAGGAG GGGCGC GCTGTG C	AC_0 0017 3.1_1 6038	CCAGCCUGCUCUUCUGUCCUGG GCUACUUGCACUAGGAGGAGGG GCGCGCUGUGC
AC_000173.1_16040*	CCCAGC CTGCTCT TCTGTCC T	AC_0 0017 3.1_1 6040	CCCAGCCUGCUCUUCUGUCCUGG GCUACUUGCACUAGGAGGAGGG GCGCGCUGUGCU
AC_000173.1_16040	GAGGAG GGGCGC GCTGTG CT	AC_0 0017 3.1_1 6040	CCCAGCCUGCUCUUCUGUCCUGG GCUACUUGCACUAGGAGGAGGG GCGCGCUGUGCU
AC_000173.1_16053	AAAACG TTCGTTC AGGTTTT A	AC_0 0017 3.1_1 6053	AAAACGUUCGUUCAGGUUUUAA AAAGCCAAAUGAACAUUUUGG

AC_000173.1_16053*	AAGCCA AATGAA CATTTTG G	AC_0 0017 3.1_1 6053	AAAACGUUCGUUCAGGUUUUAA AAAGCCAAAUGAACAUUUUGG
AC_000173.1_16083	CTCGGG GCTGTG GAAGGG GCGGA	AC_0 0017 3.1_1 6083	CUCGGGGCUGUGGAAGGGGCGG AGCCUGCACCCGAGCAUCUGA GCCCCAGUG
AC_000173.1_16083*	TGCACC CGAGCA TCTGAG CCCCAG TG	AC_0 0017 3.1_1 6083	CUCGGGGCUGUGGAAGGGGCGG AGCCUGCACCCGAGCAUCUGA GCCCCAGUG
AC_000173.1_16089	GAGGCT GCGGTA GTACTA	AC_0 0017 3.1_1 6089	GAGGCUGCGGUAGUACUACGCG GCUCGCGUUGUCUCUUCGAAGC CUCCC
AC_000173.1_16089*	GTCTCTT CGAAGC CTCCC	AC_0 0017 3.1_1 6089	GAGGCUGCGGUAGUACUACGCG GCUCGCGUUGUCUCUUCGAAGC CUCCC
AC_000174.1_16244*	AAACCC AAGCAA ACGTTTT TGG	AC_0 0017 4.1_1 6244	AAUAAGUUCGUUUGGGUUUUUC CAUAAGAUGCAGCAGGAAAAAC CCAAGCAAACGUUUUUGG
AC_000170.1_13547>AC_00 0174.1_16244>AC_000165.1 _8867>AC_000181.1_22697	AATAAG TTCGTTT GGGTTTT T	AC_0 0017 4.1_1 6244	AAUAAGUUCGUUUGGGUUUUUC CAUAAGAUGCAGCAGGAAAAAC CCAAGCAAACGUUUUUGG

AC_000174.1_16265	GATGGA GGAGGG TCCTGCT GGCAA	AC_0 0017 4.1_1 6265	GCCAGCAGUCCCUGCCUCCAGGC CUUCACCUCGAGAGAGGAUGGA GGAGGGUCCUGCUGGCAA
AC_000174.1_16265*	GCCAGC AGTCCC TGCCTCC AGGCCT	AC_0 0017 4.1_1 6265	GCCAGCAGUCCCUGCCUCCAGGC CUUCACCUCGAGAGAGGAUGGA GGAGGGUCCUGCUGGCAA
AC_000174.1_16342	AAAAAG TTCGTTC ATGTTTT	AC_0 0017 4.1_1 6342	AAAAAGUUCGUUCAUGUUUUC AUUAAAUAUGGAAAUCCAAAC AAACUUUUUG
AC_000174.1_16342*	AATCCA AACAAA CTTTTTG	AC_0 0017 4.1_1 6342	AAAAAGUUCGUUCAUGUUUUC AUUAAAUAUGGAAAUCCAAAC AAACUUUUUG
AC_000174.1_16350*	AGTCCTT GGTGTC GTAGAT GTC	AC_0 0017 4.1_1 6350	CGAGCGGGGCUGGGGGACGGAC ACGAUGGCCUCGUCCAGGGAGG UGGCUGUCAGGGUGAAGUCCUU GGUGUCGUAGAUGUC
AC_000174.1_16350	CGAGCG GGGCTG GGGGAC GGA	AC_0 0017 4.1_1 6350	CGAGCGGGGCUGGGGGACGGAC ACGAUGGCCUCGUCCAGGGAGG UGGCUGUCAGGGUGAAGUCCUU GGUGUCGUAGAUGUC
AC_000174.1_16494*	GCCGGC GCCCGC AGAGCC CTCTC	AC_0 0017 4.1_1 6494	GCGGGCGCGGGGCGGGCUGCCG GGAUUCAGGAAGCGCCGCGCUC CCGGCCGCCGGCGCCCGCAGAGC CCUCUC
AC_000174.1_16494	GCGGGC	AC_0	GCGGGCGCGGGGCGGGCUGCCG

	GCGGGG CGGGCT G	0017 4.1_1 6494	GGAUUCAGGAAGCGCCGCGCUC CCGGCCGCCGGCGCCCGCAGAGC CCUCUC
AC_000174.1_16559*	CGAGCC GGGGCG GGGGCG CCG	AC_0 0017 4.1_1 6559	CGAGCCGGGGCGGGGGCGCCGG AGCGGAGGAAACAAAAGGCUAA GGCGGCGGGCGGCCGGGGGCGC G
AC_000174.1_16559>AC_00 0174.1_16560	GCGGCG GCGGCG CCGGGG CGCG	AC_0 0017 4.1_1 6559	CGAGCCGGGGCGGGGGCGCCGG AGCGGAGGAAACAAAAGGCUAA GGCGGCGGGCGGCCGGGGGCGC G
AC_000174.1_16560*	GATCCC GGAGCC TGGCGG GCG	AC_0 0017 4.1_1 6560	GCGGCGGGCGGCCGGGGGCGCG CACCAGGGCGGCAGCGCGGGCC GGAUCCCGGAGCCUGGCGGGCG
AC_000174.1_16559>AC_00 0174.1_16560	GCGGCG GCGGCG CCGGGG CGCG	AC_0 0017 4.1_1 6560	GCGGCGGGCGGCCGGGGGCGCG CACCAGGGCGGCAGCGCGGGCC GGAUCCCGGAGCCUGGCGGGCG
AC_000174.1_16574*	GGCGCG CGGCCT CGGCGG CACC	AC_0 0017 4.1_1 6574	UGCUGACCGAGCGCCUGCGCAU UAGCCCGGACAGGUGCGUGGGC GCCGGUGGGCGGGGGGCGCGCG GCCUCGGCGGCACC
AC_000174.1_16574	TGCTGA CCGAGC GCCTGC GCATT	AC_0 0017 4.1_1 6574	UGCUGACCGAGCGCCUGCGCAU UAGCCCGGACAGGUGCGUGGGC GCCGGUGGGCGGGGGGCGCGCG GCCUCGGCGGCACC
AC_000174.1_16599*	CTCTCCT GGCTTCT	AC_0 0017	UUCUCCGGAGGCUCUGAGGG AGUUCCUCUUCACGCUUCUCU

	GGGAGT CACC	4.1_1 6599	CCUGGCUUCUGGGAGUCACC
AC_000174.1_16599	TTCCTTC CGGAGG CTCTGA GGGA	AC_0 0017 4.1_1 6599	UUCCUCCGGAGGCUCUGAGGG AGUUUCCUCUUCACGCUUCUCU CCUGGCUUCUGGGAGUCACC
AC_000174.1_16629	ATGAGG GATCTTT AGTTGT GGTAT	AC_0 0017 4.1_1 6629	AUGAGGGAUCUUUAGUUGUGGU AUGCGAACUCCUAGUUGAGGCA UGUGGGAUCUAGUUCCCUGACC A
AC_000174.1_16629*	GTGGGA TCTAGTT CCCTGA CCA	AC_0 0017 4.1_1 6629	AUGAGGGAUCUUUAGUUGUGGU AUGCGAACUCCUAGUUGAGGCA UGUGGGAUCUAGUUCCCUGACC A
AC_000174.1_16671	AAAAGA TTTGTTT GGGTTTT T	AC_0 0017 4.1_1 6671	AAAAGAUUUGUUUGGGUUUUUC CAUAACAUGUUACAGAAAAACC AGAUGAAUUGUUUGG
AC_000174.1_16671*	AAACCA GATGAAT TGTTTGG	AC_0 0017 4.1_1 6671	AAAAGAUUUGUUUGGGUUUUUC CAUAACAUGUUACAGAAAAACC AGAUGAAUUGUUUGG
AC_000174.1_16673	CGGCTC CGTGAC TCGTCC GTGGAC G	AC_0 0017 4.1_1 6673	CGGCUCGUGACUCGUCCGUGG ACGCCGGUUCGAGCCCCGUCCCG GGCGCCGCGGAGCCUCA
AC_000174.1_16673*	TCCCGG GCGCCG	AC_0 0017	CGGCUCGUGACUCGUCCGUGG ACGCCGGUUCGAGCCCCGUCCCG



	CGGAGC CTCA	4.1_1 6673	GGCGCCGCGGAGCCUCA
AC_000174.1_16743*	CAGCTG ACCACA GACTGT GCA	AC_0 0017 4.1_1 6743	UGCAGCUGAUCACAGACUGUGC ACGAGACCCCAGGCUGUGUGCA GCUGACCACAGACUGUGCA
AC_000174.1_16743>AC_00 0174.1_16744	TGCAGC TGATCAC AGACTG TG	AC_0 0017 4.1_1 6743	UGCAGCUGAUCACAGACUGUGC ACGAGACCCCAGGCUGUGUGCA GCUGACCACAGACUGUGCA
AC_000174.1_16744*	CAGGCT GTGTGC AGCTGA CC	AC_0 0017 4.1_1 6744	CAGGCUGUGUGCAGCUGACCCC UGACUGUGUGCACAAGACCCCA GGCUGUGUGCAGCUGAUCACAG ACUGUG
AC_000174.1_16743>AC_00 0174.1_16744	TGCAGC TGATCAC AGACTG TG	AC_0 0017 4.1_1 6744	CAGGCUGUGUGCAGCUGACCCC UGACUGUGUGCACAAGACCCCA GGCUGUGUGCAGCUGAUCACAG ACUGUG
AC_000174.1_16800	AAGACC TGAATG AACTTTT TGGC	AC_0 0017 4.1_1 6800	CAAAAAAUUUGUUUGGGUUUUU CCGUAGAUGUUACAGAAAGACC UGAAUGAACUUUUUGGC
AC_000174.1_16800*	CAAAAA ATTTGTT TGGGTTT TT	AC_0 0017 4.1_1 6800	CAAAAAAUUUGUUUGGGUUUUU CCGUAGAUGUUACAGAAAGACC UGAAUGAACUUUUUGGC
AC_000174.1_16867	AAAAAG TTCATTA GGATTC	AC_0 0017 4.1_1	AAAAAGUUCAUUAGGAUUCUUC CGUAACUUCUUAUGGAAAACCC UGAAUGUUUCA

		6867	
AC_000174.1_16867*	ACCCTG AATGTTT CA	AC_0 0017 4.1_1 6867	AAAAAGUUCAUUAGGAUUCUUC CGUAACUUCUUAUGGAAAACCC UGAAUGUUUCA
AC_000174.1_16885	CAGCTG GGGACG TTGGAC ACC	AC_0 0017 4.1_1 6885	CAGCUGGGGACGUUGGACACCA GUGGCUCCUGAUGCAGAGCCAG UUCCUGGGUUGGGGGCAGGGUC UCCUGCUGAG
AC_000174.1_16885*	GGTTGG GGGCAG GGTCTC CTGCTG AG	AC_0 0017 4.1_1 6885	CAGCUGGGGACGUUGGACACCA GUGGCUCCUGAUGCAGAGCCAG UUCCUGGGUUGGGGGCAGGGUC UCCUGCUGAG
AC_000174.1_16901*	AACCCA AACAAA ATCTTTG G	AC_0 0017 4.1_1 6901	AGAGAGUUUGUUUGGGUUUUGC AUAAGGUGCUAUGGAAAACCC AAACAAAUCUUUGG
AC_000174.1_16901	AGAGAG TTTGTTT GGGTTTT	AC_0 0017 4.1_1 6901	AGAGAGUUUGUUUGGGUUUUGC AUAAGGUGCUAUGGAAAACCC AAACAAAUCUUUGG
AC_000175.1_16954	AGGGAG GCGGCG GGAGGG	AC_0 0017 5.1_1 6954	AGGGAGGCGGCGGGAGGGCGCG GGUGAUGCGGCGCUGGAGGCGG CCCGGCGCCAGCCGCUGACCGC CCCCUCC
AC_000175.1_16954*	CAGCCG CTGACC GCCCCC	AC_0 0017 5.1_1	AGGGAGGCGGCGGGAGGGCGCG GGUGAUGCGGCGCUGGAGGCGG CCCGGCGCCAGCCGCUGACCGC

	TCC	6954	CCCCUCC
AC_000175.1_16958>AC_00 0175.1_16957	CGGGGC AGGGAG GTGGAG GG	AC_0 0017 5.1_1 6957	CUCAGCAGCUUCACUGAGUUGG GGGGCCAGCCGAGGGUCCCAGG ACGCGGGGCAGGGAGGUGGAGG G
AC_000175.1_16957*	CTCAGC AGCTTC ACTGAG	AC_0 0017 5.1_1 6957	CUCAGCAGCUUCACUGAGUUGG GGGGCCAGCCGAGGGUCCCAGG ACGCGGGGCAGGGAGGUGGAGG G
AC_000175.1_16958>AC_00 0175.1_16957	CGGGGC AGGGAG GTGGAG GG	AC_0 0017 5.1_1 6958	CGGGGCAGGGAGGUGGAGGGCG GCUGGGGCAGAGGGUACAGCUG GGCGGCCUCACACUGUGCCGAG
AC_000175.1_16958*	GGCGGC CTCACA CTGTGC CGAG	AC_0 0017 5.1_1 6958	CGGGGCAGGGAGGUGGAGGGCG GCUGGGGCAGAGGGUACAGCUG GGCGGCCUCACACUGUGCCGAG
AC_000175.1_17039	TCCGCC ACCTAC CAGCCC CAGA	AC_0 0017 5.1_1 7039	UGGGGCUGCUGGGCCCAGGCAG AGGUUCCUCACAUGUCCGCCACC UACCAGCCCCAGA
AC_000175.1_17039*	TGGGGC TGCTGG GCCCAG GCAGAG G	AC_0 0017 5.1_1 7039	UGGGGCUGCUGGGCCCAGGCAG AGGUUCCUCACAUGUCCGCCACC UACCAGCCCCAGA
AC_000175.1_17044*	AGGGGC GGAGTG GAGCA	AC_0 0017 5.1_1	AUCCACCUCUGCCACCAAGUAG CCGUGGGAUGCGGUUCCCACU GGGAGGGGCGGAGUGGAGCA

		7044	
AC_000175.1_17044	ATCCCAC CTCTGCC ACCAAG	AC_0 0017 5.1_1 7044	AUCCACCUCUGCCACCAAGUAG CCGUGGGAUGCGGUUCCACU GGGAGGGGCGGAGUGGAGCA
AC_000175.1_17191>AC_00 0181.1_22483*	AAAAGT TCATTTG AGTTTT	AC_0 0017 5.1_1 7191	AAAAGUUCAUUUGAGUUUUUUG UAAGAUGUUAUUGAAAAAUUCG AAUGGACUUUUUGGCC
AC_000175.1_17191*	AAATTC GAATGG ACTTTTT GGCC	AC_0 0017 5.1_1 7191	AAAAGUUCAUUUGAGUUUUUUG UAAGAUGUUAUUGAAAAAUUCG AAUGGACUUUUUGGCC
AC_000175.1_17226*	AAAGCT GAACGA ACTTTCT GG	AC_0 0017 5.1_1 7226	AGAAAGUUAGUUUGGAUUUUUC CAUAAGAAGCUACAGAAAAAGC UGAACGAACUUUCUGG
AC_000175.1_17226	AGAAAG TTAGTTT GGATTTT T	AC_0 0017 5.1_1 7226	AGAAAGUUAGUUUGGAUUUUUC CAUAAGAAGCUACAGAAAAAGC UGAACGAACUUUCUGG
AC_000187.1_27081>AC_00 0175.1_17247	AAAAAG TTCGTTT GGGTTTT	AC_0 0017 5.1_1 7247	AAAAAGUUCGUUUGGGUUUUUC CAUGCCAUCCUCAGGAAACCCU GAACGAACUUUCAG
AC_000175.1_17247*	ACCCTG AACGAA CTTTTCA G	AC_0 0017 5.1_1 7247	AAAAAGUUCGUUUGGGUUUUUC CAUGCCAUCCUCAGGAAACCCU GAACGAACUUUCAG

AC_000175.1_17298	ACTGGG AGTGGA AGGAGA GCCCAG	AC_0 0017 5.1_1 7298	ACUGGGAGUGGAAGGAGAGCCC AGAGGUUUC CAGGGACUGGUCC UGACCUCUCCCUUCCCUCCCCAC AG
AC_000175.1_17298*	GACCTC TCCCTTC CCTCCCC ACAG	AC_0 0017 5.1_1 7298	ACUGGGAGUGGAAGGAGAGCCC AGAGGUUUC CAGGGACUGGUCC UGACCUCUCCCUUCCCUCCCCAC AG
AC_000175.1_17308*	GCGATCT CCTCCTG CCCCTC A	AC_0 0017 5.1_1 7308	UGGGGACAGAGAGGAGGAAGCA GGCGCCUGAAUCUGCGAUCUCC UCCUGCCCCUCA
AC_000175.1_17308	TGGGGA CAGAGA GGAGGA AGCAG	AC_0 0017 5.1_1 7308	UGGGGACAGAGAGGAGGAAGCA GGCGCCUGAAUCUGCGAUCUCC UCCUGCCCCUCA
AC_000175.1_17351*	GGGGCC GGCTGG CGGTTG CCGGGA GC	AC_0 0017 5.1_1 7351	GGGGCCGGCUGGGCGGUUGCCGG GAGCGGGACCAGAGCUCAGGCA GCUAGAGCCGGCGCCAU
AC_000175.1_17351	TCAGGC AGCTAG AGCCGG CGCCAT	AC_0 0017 5.1_1 7351	GGGGCCGGCUGGGCGGUUGCCGG GAGCGGGACCAGAGCUCAGGCA GCUAGAGCCGGCGCCAU
AC_000175.1_17358*	AAAACC TGAAGG AACTTC ACC	AC_0 0017 5.1_1 7358	AAACGUUCGUUCGGGUUUCUCC AGAACAGCUUACGGAAAAACCU GAAGGAACUUCACC

AC_000175.1_17358	AAACGT TCGTTCG GGTTTCT C	AC_0 0017 5.1_1 7358	AAACGUUCGUUCGGGUUUCUCC AGAACAGCUUACGGAAAAACCU GAAGGAACUUCACC
AC_000175.1_17370	AGAAGC TTTGGA CAGGGC TCT	AC_0 0017 5.1_1 7370	AGAAGCUUUGGACAGGGCUCUA GGGACUCUUGUCUCUUCUCGUC UUUCCAUCAGUGGCUCUCCUGC
AC_000175.1_17370*	CGTCTTT TCCATCC AGTGGC TCCTGC	AC_0 0017 5.1_1 7370	AGAAGCUUUGGACAGGGCUCUA GGGACUCUUGUCUCUUCUCGUC UUUCCAUCAGUGGCUCUCCUGC
AC_000175.1_17499	AAAAAG CTCGTTC AGGTTTT T	AC_0 0017 5.1_1 7499	AAAAAGCUCGUUCAGGUUUUUC CAUAAGAAAAAUCCAAACGGA CGUUUUGG
AC_000175.1_17499*	AAATTCC AAACGG ACGTTTT GG	AC_0 0017 5.1_1 7499	AAAAAGCUCGUUCAGGUUUUUC CAUAAGAAAAAUCCAAACGGA CGUUUUGG
AC_000175.1_17506	GAGGGA GGAAGA GCGCGA	AC_0 0017 5.1_1 7506	GGCUGCACCUCUGUCUUGCACU UUGCACGGAGGGAGGAAGAGCG CGA
AC_000175.1_17506*	GGCTGC ACCTCT GTCTT	AC_0 0017 5.1_1 7506	GGCUGCACCUCUGUCUUGCACU UUGCACGGAGGGAGGAAGAGCG CGA
AC_000175.1_17508*	CCCAGG	AC_0	CCCAGGCCUGCCCGGCCUCGGA

	CCCTGC CCGGCC TCGGA	0017 5.1_1 7508	GCUGGGGUGGCGCUGGGAACGUG GACCCCGCCUCUCGGUGGGGCG GUGUGUGGGAU
AC_000175.1_17508	TCGGTG GGGCGG TGTGTG GGAT	AC_0 0017 5.1_1 7508	CCCAGGCCUGCCCGGCCUCGGA GCUGGGGUGGCGCUGGGAACGUG GACCCCGCCUCUCGGUGGGGCG GUGUGUGGGAU
AC_000175.1_17533>AC_00 0175.1_17534	AAGACC AGGGGT GTGGCT C	AC_0 0017 5.1_1 7533	AAGACCAGGGGUGUGGCCUCCCC AGCAUCUGUGAAGGCAGGCUGG GGGCCAGGCACCCUGGUUCUG C
AC_000175.1_17533*	CCCAGG CACCTT GGTTCT GC	AC_0 0017 5.1_1 7533	AAGACCAGGGGUGUGGCCUCCCC AGCAUCUGUGAAGGCAGGCUGG GGGCCAGGCACCCUGGUUCUG C
AC_000175.1_17533>AC_00 0175.1_17534	AAGACC AGGGGT GTGGCT C	AC_0 0017 5.1_1 7534	ACUGUCACCCUGAGCUCCCUUU AUACGGAAAGACCAGGGGUGUG GCUC
AC_000175.1_17534*	ACTGTC ACCCCT GAGCTC CC	AC_0 0017 5.1_1 7534	ACUGUCACCCUGAGCUCCCUUU AUACGGAAAGACCAGGGGUGUG GCUC
AC_000175.1_17538	ACCGGA GCTGGA GCGGCC CAT	AC_0 0017 5.1_1 7538	UGGCAUGCUCUGGCUUCGCUAC CAGAAACCGGAGCUGGAGCGGC CCAU
AC_000175.1_17538*	TGGCAT GCTCTG	AC_0 0017	UGGCAUGCUCUGGCUUCGCUAC CAGAAACCGGAGCUGGAGCGGC

	GCTTCG CTAC	5.1_1 7538	CCAU
AC_000175.1_17573*	AAACTG GGATGA ATTTTTT CG	AC_0 0017 5.1_1 7573	AGAAAGUUCGUUCGGGUUUUUA UACACUGUUACUGAAAAACUGG GAUGAAUUUUUUCG
AC_000175.1_17573	AGAAAG TTCGTTC GGGTTTT T	AC_0 0017 5.1_1 7573	AGAAAGUUCGUUCGGGUUUUUA UACACUGUUACUGAAAAACUGG GAUGAAUUUUUUCG
AC_000175.1_17579*	AAACCC AAACAG ACTTGTT GGT	AC_0 0017 5.1_1 7579	CAACAAGUUUGUUUGGGUUUUU CCAUAACACCUUACAGGAAAAC CCAAACAGACUUGUUGGU
AC_000180.1_21742>AC_00 0175.1_17579	CAACAA GTTTGTT TGGGTTT TT	AC_0 0017 5.1_1 7579	CAACAAGUUUGUUUGGGUUUUU CCAUAACACCUUACAGGAAAAC CCAAACAGACUUGUUGGU
AC_000175.1_17582	TGGATTG ATAGAG GGGGAC GGA	AC_0 0017 5.1_1 7582	UGUCCCUCUUUAAAACAGUCAU UGUGGCUGCCUGGUCCUUAUUC CCUGUUGAGUGUCACAUGGAUU GAUAGAGGGGGACGGA
AC_000175.1_17582*	TGTCCCT CTTTAAA ACAGTC ATTG	AC_0 0017 5.1_1 7582	UGUCCCUCUUUAAAACAGUCAU UGUGGCUGCCUGGUCCUUAUUC CCUGUUGAGUGUCACAUGGAUU GAUAGAGGGGGACGGA
AC_000175.1_17668*	GCACAA GATAAG CCCAGC	AC_0 0017 5.1_1	GCACAAGAUAAAGCCCAGCCAUU AAAUCCAGGACUCCUGUGUGC AUGAGGUGGUAGUUUGUGCGG



		7668	
AC_000175.1_17668	TGAGGT GGTAGT TTGTGC GG	AC_0 0017 5.1_1 7668	GCACAAGAUAAAGCCCAGCCAUU AAAUCCAGGACUUCCUGUGUGC AUGAGGUGGUAGUUUGUGCGG
AC_000175.1_17734	AGTGGT TAGGATT CGTCT	AC_0 0017 5.1_1 7734	UCAAAAUCUGACCCUGGGGAGU UCCCUGAUGGCCUAGUGGUUAG GAUUCGUCU
AC_000175.1_17734*	TCAAAA TCTGAC CCTGG	AC_0 0017 5.1_1 7734	UCAAAAUCUGACCCUGGGGAGU UCCCUGAUGGCCUAGUGGUUAG GAUUCGUCU
AC_000175.1_17756	CAGGGA CTGGGG AGGGGG ATGTTT	AC_0 0017 5.1_1 7756	GCAUUUUGGGGCCUGGAUUUGU GGAAGGCAAUUUUUCCAGGGAC UGGGGAGGGGGAUGUUU
AC_000175.1_17756*	GCATTTT GGGGCC TGGATTT GTGGA	AC_0 0017 5.1_1 7756	GCAUUUUGGGGCCUGGAUUUGU GGAAGGCAAUUUUUCCAGGGAC UGGGGAGGGGGAUGUUU
AC_000175.1_17857*	CGCTCA GCCCCT GCTGCC CTC	AC_0 0017 5.1_1 7857	CGGGCAGCUGGGGGUUGGGCGG GGCCAGGCGCCCGCUCAGCCCCU GCUGCCCUC
AC_000175.1_17857	CGGGCA GCTGGG GGTTGG GCGGG	AC_0 0017 5.1_1 7857	CGGGCAGCUGGGGGUUGGGCGG GGCCAGGCGCCCGCUCAGCCCCU GCUGCCCUC

AC_000175.1_17867	AGGAAG ATGGCG GAGCTG	AC_0 0017 5.1_1 7867	AGGAAGAUGGCGGAGCUGCGCG CGCUCGUGGCUGUCAAGAGGGU CAUCGACUUCGCAGUGAAGGUG ACCGGCUCCCCUCUCCUCU
AC_000175.1_17867*	GCTCCC CTCTCCT CT	AC_0 0017 5.1_1 7867	AGGAAGAUGGCGGAGCUGCGCG CGCUCGUGGCUGUCAAGAGGGU CAUCGACUUCGCAGUGAAGGUG ACCGGCUCCCCUCUCCUCU
AC_000175.1_17922*	GACTCT GAGGCT TGAGAC TAGC	AC_0 0017 5.1_1 7922	GACUCUGAGGCUUGAGACUAGC AAGAGAGGGAGGCCCAAUGCCC CCUCGCUGUCUCAGUUCAGCAG GAAG
AC_000175.1_17922	TGTCTCA GTTCAG CAGGAA G	AC_0 0017 5.1_1 7922	GACUCUGAGGCUUGAGACUAGC AAGAGAGGGAGGCCCAAUGCCC CCUCGCUGUCUCAGUUCAGCAG GAAG
AC_000176.1_18013*	AGAGCT GACAGT TTGGTT	AC_0 0017 6.1_1 8013	AGAGCUGACAGUUUGGUUCCUU GUAUCCUGUUAGCCACUUUGUU UUAGGAACCAGAUUGUCAGCUC UAA
AC_000176.1_18013	GAACCA GATTGTC AGCTCT AA	AC_0 0017 6.1_1 8013	AGAGCUGACAGUUUGGUUCCUU GUAUCCUGUUAGCCACUUUGUU UUAGGAACCAGAUUGUCAGCUC UAA
AC_000176.1_18062	CAATGA GGGGGA GGAGGG GAAG	AC_0 0017 6.1_1 8062	CAAUGAGGGGGAGGAGGGGAAG UGAACUGCUGGAGGGGCAGCCC CGUCCUUGUCUCGAGUG
AC_000176.1_18062*	GCCCCG	AC_0	CAAUGAGGGGGAGGAGGGGAAG

	TCCTTGT CTCGAG TG	0017 6.1_1 8062	UGAACUGCUGGAGGGGCAGCCC CGUCCUUGUCUCGAGUG
AC_000176.1_18264	CCCCGA GCCCCG CCGCCG GCG	AC_0 0017 6.1_1 8264	CCCCGAGCCCGCCCGCCGGCGUG CCCACGUCCAAAGGUAGGAACG CUCGGGCU
AC_000176.1_18264*	TCCAAA GGTAGG AACGCT CGGGCT	AC_0 0017 6.1_1 8264	CCCCGAGCCCGCCCGCCGGCGUG CCCACGUCCAAAGGUAGGAACG CUCGGGCU
AC_000176.1_18291	AAGGGG CGGTGG CGGGTG GAGAAG G	AC_0 0017 6.1_1 8291	GUCCCCACCAACCCAGGGCUGUU CCUUCCUCUCAGCUGCAGAGCCU GGAGCAGGAGAAGGGGCGGUGG CGGGUGGAGAAGG
AC_000176.1_18291*	GTCCCC ACCAAC CCAGGG CTGTTCC TTCC	AC_0 0017 6.1_1 8291	GUCCCCACCAACCCAGGGCUGUU CCUUCCUCUCAGCUGCAGAGCCU GGAGCAGGAGAAGGGGCGGUGG CGGGUGGAGAAGG
AC_000176.1_18304	AAATGG AAGTAG TAGGATA GT	AC_0 0017 6.1_1 8304	AAAUGGAAGUAGUAGGAUAGUA UGC UAAUAAAAUUCUCUUGCUU CUUCCAUCAAC
AC_000176.1_18304*	TCTCTTG CTTCTTC CATCAA C	AC_0 0017 6.1_1 8304	AAAUGGAAGUAGUAGGAUAGUA UGC UAAUAAAAUUCUCUUGCUU CUUCCAUCAAC

AC_000176.1_18306*	CAAGCA AGCAGT CTGACTT TGGG	AC_0 0017 6.1_1 8306	UGGGGUGGGACGCUGUGUGGGUG GUGGCAGCGCUUCCAGGGCUGA GAAUGACCUUGCCAAGCAAGCA GUCUGACUUUGGG
AC_000176.1_18306	TGGGGT GGGACG CTGTGT GGT	AC_0 0017 6.1_1 8306	UGGGGUGGGACGCUGUGUGGGUG GUGGCAGCGCUUCCAGGGCUGA GAAUGACCUUGCCAAGCAAGCA GUCUGACUUUGGG
AC_000176.1_18328	CTGGGC GGGAGG ATGCGG GTTA	AC_0 0017 6.1_1 8328	CUGGGCGGGAGGAUGCGGGUUA GCGAGCGAGCCUUGGAGGCGGG AGGGGGCUGCUGGGCGCUGCACC UGUCCGCGCC
AC_000176.1_18328*	GCGCTG CACCTG TCCGCG CC	AC_0 0017 6.1_1 8328	CUGGGCGGGAGGAUGCGGGUUA GCGAGCGAGCCUUGGAGGCGGG AGGGGGCUGCUGGGCGCUGCACC UGUCCGCGCC
AC_000176.1_18343*	CCCCCTT GTAGGG GCTCTTT G	AC_0 0017 6.1_1 8343	CCCCCUUGUAGGGGCUCUUUGG UAGGCGUGGGGCUGGGGGGGAG GGUG
AC_000176.1_18343	TGGGGC TGGGGG GGAGGG TG	AC_0 0017 6.1_1 8343	CCCCCUUGUAGGGGCUCUUUGG UAGGCGUGGGGCUGGGGGGGAG GGUG
AC_000176.1_18379*>AC_0 00176.1_18377*	GTGAAG CCCCTTT GTCCTAC CCCC	AC_0 0017 6.1_1 8377	GUGAAGCCCCUUGUCCUACCCC CGGAGCCCAUAGGGGUAGAGGA GAGGCUACCACCA
AC_000176.1_18379>AC_00	TAGAGG	AC_0	GUGAAGCCCCUUGUCCUACCCC

0176.1_18377	AGAGGC TACCAC CA	0017 6.1_1 8377	CGGAGCCCAUAGGGGUAGAGGA GAGGCUACCACCA
AC_000176.1_18379*>AC_0 00176.1_18377*	GTGAAG CCCCTTT GTCCTAC CCCC	AC_0 0017 6.1_1 8379	GUGAAGCCCCUUGUCCUACCCC CGGAGCCCAUAGGGGUAGAGGA GAGGCUACCACCA
AC_000176.1_18379>AC_00 0176.1_18377	TAGAGG AGAGGC TACCAC CA	AC_0 0017 6.1_1 8379	GUGAAGCCCCUUGUCCUACCCC CGGAGCCCAUAGGGGUAGAGGA GAGGCUACCACCA
AC_000176.1_18392*	AAGGCC TTGTTTG CTGGAC C	AC_0 0017 6.1_1 8392	ACUGGUAAGGGGGCUUUGUCU GUUGCUGCCUCUGCAUACAAGG CCUUGUUUGCUGGACC
AC_000176.1_18392	ACTGGT AAAGGG GGCTTT GT	AC_0 0017 6.1_1 8392	ACUGGUAAGGGGGCUUUGUCU GUUGCUGCCUCUGCAUACAAGG CCUUGUUUGCUGGACC
AC_000172.1_15186*>AC_0 00176.1_18449*	GTCGAG GCTAGA GTCACG CTTGGG TAT	AC_0 0017 6.1_1 8449	GUCGAGGCUAGAGUCACGCUUG GGUAUCCACUGUUGCCUAGUG UGCAGAGUCCUCGAA
AC_000176.1_18449	TAGTGT GCTAGA GTCCTC GAA	AC_0 0017 6.1_1 8449	GUCGAGGCUAGAGUCACGCUUG GGUAUCCACUGUUGCCUAGUG UGCAGAGUCCUCGAA
AC_000176.1_18498	CCCGAG	AC_0	CCCGAGGAGCAGACAGAGCAUG

	GAGCAG ACAGAG CATG	0017 6.1_1 8498	CCUUCAUAAAUGUCCUCACCCG AGGGGACCUGUCUCCAUCGCGC UGGGUCUGCUCUCCUCUGCGCC
AC_000176.1_18498*	CGCTGG GTCTGCT CTCCTCT GCGCC	AC_0 0017 6.1_1 8498	CCCGAGGAGCAGACAGAGCAUG CCUUCAUAAAUGUCCUCACCCG AGGGGACCUGUCUCCAUCGCGC UGGGUCUGCUCUCCUCUGCGCC
AC_000176.1_18500*	CCCGCC TGCCCA CCTGTCC AGGCA	AC_0 0017 6.1_1 8500	UCUGCAGGGUGGUAGGCUGUGG GCUAUGUGGUGAGGCCCCCGC CUGCCCACCUGUCCAGGCA
AC_000176.1_18500	TCTGCA GGGTGG TAGGCT GTGG	AC_0 0017 6.1_1 8500	UCUGCAGGGUGGUAGGCUGUGG GCUAUGUGGUGAGGCCCCCGC CUGCCCACCUGUCCAGGCA
AC_000176.1_18547*	AGCCGC GGCCCG GGCTCA GTTGT	AC_0 0017 6.1_1 8547	AGCCGCGGCCCGGGCUCAGUUG UCUCAGCGAGCGCGAGCCGGGA GCUGGGGCGGG
AC_000176.1_18547	CGCGAG CCGGGA GCTGGG GCGGG	AC_0 0017 6.1_1 8547	AGCCGCGGCCCGGGCUCAGUUG UCUCAGCGAGCGCGAGCCGGGA GCUGGGGCGGG
AC_000176.1_18557	TCTGTGC TGGGGA CAAGAG C	AC_0 0017 6.1_1 8557	UUCUGCCCCUGGUGCUGCUGUG ACCUGUGAGCUGCCGUGGUCUG UGCUGGGGACAAGAGC
AC_000176.1_18557*	TTCTGCC CCTGGT	AC_0 0017	UUCUGCCCCUGGUGCUGCUGUG ACCUGUGAGCUGCCGUGGUCUG

	GCTGCT GTGACC	6.1_1 8557	UGCUGGGGACAAGAGC
AC_000176.1_18564	ACAGGA GAATGC AGGACA CACG	AC_0 0017 6.1_1 8564	ACAGGAGAAUGCAGGACACACG UAAAUGUCAGCACGUUCGUGAG CCCAGCGUUUCUUCUGAUU
AC_000176.1_18564*	TGAGCC CAGCGT TTCTTCT GATT	AC_0 0017 6.1_1 8564	ACAGGAGAAUGCAGGACACACG UAAAUGUCAGCACGUUCGUGAG CCCAGCGUUUCUUCUGAUU
AC_000176.1_18570	AGGGTG GGCCGG GCGGTG CT	AC_0 0017 6.1_1 8570	AGGGUGGGCCGGGCGGUGCUGG UGGGGGCCUGGGGCUCCCCGGG CCCCUCACAGCAGCCAGCCCUUG CCUGACCUUCC
AC_000176.1_18570*	CAGCCA GCCCTT GCCTGA CCTTCC	AC_0 0017 6.1_1 8570	AGGGUGGGCCGGGCGGUGCUGG UGGGGGCCUGGGGCUCCCCGGG CCCCUCACAGCAGCCAGCCCUUG CCUGACCUUCC
AC_000176.1_18575	TCCCCA GAAGTG CCCCTG CAAA	AC_0 0017 6.1_1 8575	UGUUGGGGCUCUGCCUGGGGUC CAGCCAGGCUCUGGUCCCCAGA AGUGCCCCUGCAAA
AC_000176.1_18575*	TGTTGG GGCTCT GCCTGG GGTCC	AC_0 0017 6.1_1 8575	UGUUGGGGCUCUGCCUGGGGUC CAGCCAGGCUCUGGUCCCCAGA AGUGCCCCUGCAAA
AC_000176.1_18598*	TCACGG CCTCTCT GCCCCC	AC_0 0017 6.1_1	UGGGGGUGGGGAGGGCGCGUGC CUGGGCCUGGCACCCCUCCUGC UCACGGCCUCUCUGCCCCCAGG

	AGG	8598	
AC_000176.1_18598	TGGGGG TGGGGA GGGCGC GTGC	AC_0 0017 6.1_1 8598	UGGGGGUGGGGAGGGCGCGUGC CUGGGCCUGGCACCCCUCCCUGC UCACGGCCUCUCUGCCCCCAGG
AC_000176.1_18622	CAGTGG AGGGGT CGTGGG GTGTCC	AC_0 0017 6.1_1 8622	CAGUGGAGGGGUCGUGGGGUGU CCUAUAAUAAAGAAUCUGACUG GCCUUUGCCUCUGGC
AC_000176.1_18622*	GAATCT GACTGG CCTTTGC CTCTGG C	AC_0 0017 6.1_1 8622	CAGUGGAGGGGUCGUGGGGUGU CCUAUAAUAAAGAAUCUGACUG GCCUUUGCCUCUGGC
AC_000176.1_18665	CATCTGT CAGAGG AGTCAC TGT	AC_0 0017 6.1_1 8665	GGUGAAUCCUUGACAGGUUCC AGUUUAUUUUGCUGACAUCUGU CAGAGGAGUCACUGU
AC_000176.1_18665*	GGTGAA TCCTTGA CAGGTT TC	AC_0 0017 6.1_1 8665	GGUGAAUCCUUGACAGGUUCC AGUUUAUUUUGCUGACAUCUGU CAGAGGAGUCACUGU
AC_000176.1_18681*	TACATGT AGATCCT GCATTG AGAA	AC_0 0017 6.1_1 8681	UUCAAGUAAUAAAGGAUAGGAA AACCUACAUGUAGAUCUGCAU UGAGAA
AC_000176.1_18681	TTCAAG TAATAAA GGATAG	AC_0 0017 6.1_1	UUCAAGUAAUAAAGGAUAGGAA AACCUACAUGUAGAUCUGCAU UGAGAA



	G	8681	
AC_000176.1_18762	CAATATA TGGGGA AGCGGT TAT	AC_0 0017 6.1_1 8762	UAACUGCUUCCCCAUUAUUGG GAUUCAUGGGGUCCCAAUAUUAU GGGGAAGCGGUUAU
AC_000176.1_18762*	TAACTG CTTCCCC ATATATT GG	AC_0 0017 6.1_1 8762	UAACUGCUUCCCCAUUAUUGG GAUUCAUGGGGUCCCAAUAUUAU GGGGAAGCGGUUAU
AC_000176.1_18785	AGGGTG TGGGTTT GGTCGT GGGAG	AC_0 0017 6.1_1 8785	AGGGUGUGGGUUUGGUCGUGGG AGCUUUAGCGUCCACGUGUGC UGCCCACUUCUCC
AC_000176.1_18785*	CCCACG TGTGCT GCCAC TTCCTCC	AC_0 0017 6.1_1 8785	AGGGUGUGGGUUUGGUCGUGGG AGCUUUAGCGUCCACGUGUGC UGCCCACUUCUCC
AC_000176.1_18789	ATGGGG TAAGGA TGGAGA GGA	AC_0 0017 6.1_1 8789	AUGGGGUAAGGAUGGAGAGGAC CUUUGAGCGCAACGAGAUACCU CUCCAUUCUCAUCCCCAGAG
AC_000176.1_18789*	CTCTCCA TTCTCAT CCCCAG AG	AC_0 0017 6.1_1 8789	AUGGGGUAAGGAUGGAGAGGAC CUUUGAGCGCAACGAGAUACCU CUCCAUUCUCAUCCCCAGAG
AC_000176.1_18799	ATGGGG CAGGTG GATGGA GTCC	AC_0 0017 6.1_1 8799	AUGGGGCAGGUGGAUGGAGUCC GAGUGGCAACCAGCUCUCCUCCC ACCCUGCCUCCUAGAU

AC_000176.1_18799*	TCTCCTC CCACCC TGCCTCC TAGAT	AC_0 0017 6.1_1 8799	AUGGGGCAGGUGGAUGGAGUCC GAGUGGCAACCAGCUCUCCUCCC ACCCUGCCUCCUAGAU
AC_000176.1_18801	ACTGAG GACAGT GAAGGT GGAA	AC_0 0017 6.1_1 8801	ACUGAGGACAGUGAAGGUGGAA GAGACCCUCACUGUCCUCUGUG C
AC_000176.1_18801*	AGACCC TCACTGT CCTCTGT GC	AC_0 0017 6.1_1 8801	ACUGAGGACAGUGAAGGUGGAA GAGACCCUCACUGUCCUCUGUG C
AC_000176.1_18884	GGGACT GTCTGG GTTGGC GCTAGG	AC_0 0017 6.1_1 8884	UCGUCGGCGUCCACCCGGGUCCG CCACCACCACAGGAGUGGGGAC UGUCUGGGUUGGCGCUAGG
AC_000176.1_18884*	TCGTCC GCGTCC ACCCGG GTCCGC CA	AC_0 0017 6.1_1 8884	UCGUCGGCGUCCACCCGGGUCCG CCACCACCACAGGAGUGGGGAC UGUCUGGGUUGGCGCUAGG
AC_000176.1_18972	AGCAGG GGCTGG GCCTGG TGGT	AC_0 0017 6.1_1 8972	AGCAGGGGCUGGGCCUGGUGGU GGGGGCCCCACCUGACCACUGUC UCCGGCCCCUGCAGC
AC_000176.1_18972*	CACTGT CTCCGG CCCCTG CAGC	AC_0 0017 6.1_1 8972	AGCAGGGGCUGGGCCUGGUGGU GGGGGCCCCACCUGACCACUGUC UCCGGCCCCUGCAGC

AC_000176.1_19003*	CCCTTTT CTCCCTT CCTCTG GGCA	AC_0 0017 6.1_1 9003	CUAGGAGGGAUUGGGGGGCUGG GCCCCAAAGGAGCCCCCCUUU UCUCCCUUCCUCUGGGCA
AC_000176.1_19003	CTAGGA GGGATT GGGGGG C	AC_0 0017 6.1_1 9003	CUAGGAGGGAUUGGGGGGCUGG GCCCCAAAGGAGCCCCCCUUU UCUCCCUUCCUCUGGGCA
AC_000170.1_12856>AC_00 0176.1_19037>AC_000187.1 _26549>AC_000169.1_12603 >AC_000178.1_20340	AAGAAG TTCGTTT GGGTTTT T	AC_0 0017 6.1_1 9037	AAGAAGUUCGUUUGGGUUUUUC CAUAAGAUAUUAUGGAAAUGA ACUUUUUGG
AC_000176.1_19037*	TATGGA AAATGA ACTTTTT GG	AC_0 0017 6.1_1 9037	AAGAAGUUCGUUUGGGUUUUUC CAUAAGAUAUUAUGGAAAUGA ACUUUUUGG
AC_000176.1_19153>AC_00 0176.1_19154	AGGGAG TCCCTG GTAGTTC AGT	AC_0 0017 6.1_1 9153	AGGGAGUCCUGGUAGUUCAGU GGUUAAGACUCCAUGCUUUUCA UUGCAGGAGGCAUGGGUUCAGU CCCUGGUCAGGGAACUAAGA
AC_000176.1_19153*	CTGGTC AGGGAA CTAAGA	AC_0 0017 6.1_1 9153	AGGGAGUCCUGGUAGUUCAGU GGUUAAGACUCCAUGCUUUUCA UUGCAGGAGGCAUGGGUUCAGU CCCUGGUCAGGGAACUAAGA
AC_000176.1_19154*	ACTGGA CCACCA GGGAAT TCCCATT	AC_0 0017 6.1_1 9154	ACUGGACCACCAGGGAAUUCCC AUUGUAGUUUAAAAACAACAG GGAGUCCUGGUAGUUCAGU
AC_000176.1_19153>AC_00	AGGGAG	AC_0	ACUGGACCACCAGGGAAUUCCC

0176.1_19154	TCCCTG GTAGTTC AGT	0017 6.1_1 9154	AUUGUAGUUUAAAAACAACAG GGAGUCCCUUGGUAGUUCAGU
AC_000176.1_19161	AGGAAG TGAGGA AGGAGC CAGA	AC_0 0017 6.1_1 9161	AGGAAGUGAGGAAGGAGCCAGA GCUGCAGCUGAAAUGAGCUGAU GGAUCCUUGCUCUCCUCCACACCU CCAGA
AC_000176.1_19161*	TTGCTCC CTCCAC ACCTCC AGA	AC_0 0017 6.1_1 9161	AGGAAGUGAGGAAGGAGCCAGA GCUGCAGCUGAAAUGAGCUGAU GGAUCCUUGCUCUCCUCCACACCU CCAGA
AC_000176.1_19167>AC_00 0176.1_19169>AC_000176.1 _19165>AC_000176.1_19168 >AC_000176.1_19170>AC_0 00176.1_19166	ACAGGG GATGGT CTGGGC TGG	AC_0 0017 6.1_1 9165	ACAGGGGAUGGUCUGGGCUGGG UGGGGCCUGCCCGAGCUGCACCC CCAUCCUGAGCAGACCUCCCUUC CGC
AC_000176.1_19169*>AC_0 00176.1_19165*	TGAGCA GACCTC CCTTCCG C	AC_0 0017 6.1_1 9165	ACAGGGGAUGGUCUGGGCUGGG UGGGGCCUGCCCGAGCUGCACCC CCAUCCUGAGCAGACCUCCCUUC CGC
AC_000176.1_19167>AC_00 0176.1_19169>AC_000176.1 _19165>AC_000176.1_19168 >AC_000176.1_19170>AC_0 00176.1_19166	ACAGGG GATGGT CTGGGC TGG	AC_0 0017 6.1_1 9166	AGCCCCAGCCCACUUCCUGAGAA CACCGUGGUCACAGGGGAUGGU CUGGGCUGG
AC_000176.1_19168*>AC_0 00176.1_19170*>AC_000176 .1_19166*	AGCCCC AGCCCA CTTCCTG AGA	AC_0 0017 6.1_1 9166	AGCCCCAGCCCACUUCCUGAGAA CACCGUGGUCACAGGGGAUGGU CUGGGCUGG

AC_000176.1_19167>AC_000176.1_19169>AC_000176.1_19165>AC_000176.1_19168>AC_000176.1_19170>AC_000176.1_19166	ACAGGG GATGGT CTGGGC TGG	AC_0 0017 6.1_1 9167	ACAGGGGAUGGUCUGGGCUGGG UGGGGCCUGCCCGAGCUGCACCC CCAUCCUGAGCAGACCUCCCUUC CAC
AC_000176.1_19167*	TGAGCA GACCTC CCTTCCA C	AC_0 0017 6.1_1 9167	ACAGGGGAUGGUCUGGGCUGGG UGGGGCCUGCCCGAGCUGCACCC CCAUCCUGAGCAGACCUCCCUUC CAC
AC_000176.1_19167>AC_000176.1_19169>AC_000176.1_19165>AC_000176.1_19168>AC_000176.1_19170>AC_000176.1_19166	ACAGGG GATGGT CTGGGC TGG	AC_0 0017 6.1_1 9168	AGCCCCAGCCCACUUCCUGAGAA CACCGUGGUCACAGGGGAUGGU CUGGGCUGG
AC_000176.1_19168*>AC_000176.1_19170*>AC_000176.1_19166*	AGCCCC AGCCCA CTTCCTG AGA	AC_0 0017 6.1_1 9168	AGCCCCAGCCCACUUCCUGAGAA CACCGUGGUCACAGGGGAUGGU CUGGGCUGG
AC_000176.1_19167>AC_000176.1_19169>AC_000176.1_19165>AC_000176.1_19168>AC_000176.1_19170>AC_000176.1_19166	ACAGGG GATGGT CTGGGC TGG	AC_0 0017 6.1_1 9169	ACAGGGGAUGGUCUGGGCUGGG UGGGGCCUGCCCGAGCUGCACCC CCAUCCUGAGCAGACCUCCCUUC CGC
AC_000176.1_19169*>AC_000176.1_19165*	TGAGCA GACCTC CCTTCCG C	AC_0 0017 6.1_1 9169	ACAGGGGAUGGUCUGGGCUGGG UGGGGCCUGCCCGAGCUGCACCC CCAUCCUGAGCAGACCUCCCUUC CGC
AC_000176.1_19167>AC_000176.1_19169>AC_000176.1_19165>AC_000176.1_19168>AC_000176.1_19170>AC_000176.1_19166	ACAGGG GATGGT	AC_0 0017	AGCCCCAGCCCACUUCCUGAGAA CACCGUGGUCACAGGGGAUGGU

_19165>AC_000176.1_19168 >AC_000176.1_19170>AC_0 00176.1_19166	CTGGGC TGG	6.1_1 9170	CUGGGCUGG
AC_000176.1_19168*>AC_0 00176.1_19170*>AC_000176 .1_19166*	AGCCCC AGCCCA CTTCCTG AGA	AC_0 0017 6.1_1 9170	AGCCCCAGCCCACUUCCUGAGAA CACCGUGGUCACAGGGGAUGGU CUGGGCUGG
AC_000176.1_19216	AACTGT TAGGAG GCTTGG CTGCT	AC_0 0017 6.1_1 9216	CAGCCAAGCCUCUCCUAACAGG AAUGGAAACUGAAACCCAACUG UUAGGAGGCUUGGCUGCU
AC_000176.1_19216*	CAGCCA AGCCTC TCCTAAC AGGAAT GG	AC_0 0017 6.1_1 9216	CAGCCAAGCCUCUCCUAACAGG AAUGGAAACUGAAACCCAACUG UUAGGAGGCUUGGCUGCU
AC_000176.1_19234	CTTGGG AGGGGT CTGATGT TC	AC_0 0017 6.1_1 9234	GCAUUUCCUUUCCACCAAGGUU CCUUUUGGCGCCCUUGGGAGGG GUCUGAUGUUC
AC_000176.1_19234*	GCATTC CTTTCCA CCAAGG T	AC_0 0017 6.1_1 9234	GCAUUUCCUUUCCACCAAGGUU CCUUUUGGCGCCCUUGGGAGGG GUCUGAUGUUC
AC_000176.1_19258	CTCGGT GGGGAC AAGGAG GC	AC_0 0017 6.1_1 9258	UGUAUUGUCCUCCUUCUGUGGU GGAGCUUAAUCAAAAUGGCUUC CAGCUGGUCCUCGGUGGGGACA AGGAGGC
AC_000176.1_19258*	TGTATTG	AC_0	UGUAUUGUCCUCCUUCUGUGGU

	TCCTCCT TCTGTG GT	0017 6.1_1 9258	GGAGCUUAAUCAAAAUGGCUUC CAGCUGGUCCUCGGUGGGGACA AGGAGGC
AC_000176.1_19268*	AGCCCA GGCTGT GCCCA GACC	AC_0 0017 6.1_1 9268	AGCCCAGGCUGUGCCCCAGACCA AUUAAAGCAGCAUCUCUGGGAG UGGGACCUGGGCAUC
AC_000176.1_19268	TCTGGG AGTGGG ACCTGG GCATC	AC_0 0017 6.1_1 9268	AGCCCAGGCUGUGCCCCAGACCA AUUAAAGCAGCAUCUCUGGGAG UGGGACCUGGGCAUC
AC_000177.1_19362*	AAACCT GAATAA ACTGTTT	AC_0 0017 7.1_1 9362	AAAGUUCGUUCAGGUUUUUUGG CCCAUCUACAGAAAAACCUGA AUAAACUGUUU
AC_000177.1_19362>AC_00 0172.1_15184*	AAAGTT CGTTCA GGTTTTT	AC_0 0017 7.1_1 9362	AAAGUUCGUUCAGGUUUUUUGG CCCAUCUACAGAAAAACCUGA AUAAACUGUUU
AC_000177.1_19371	CGGGGG CGGTGG GGTTGG G	AC_0 0017 7.1_1 9371	UAUGCAAUUCGCUGGGCUGAAA CAUAAAUAGAGCACUCCGCGGA CACGGGGGUAGCGGGGGCGGUG GGGUUGGG
AC_000177.1_19371*	TATGCAA ATCGCTG GGCT	AC_0 0017 7.1_1 9371	UAUGCAAUUCGCUGGGCUGAAA CAUAAAUAGAGCACUCCGCGGA CACGGGGGUAGCGGGGGCGGUG GGGUUGGG
AC_000177.1_19454*	ATCTGG GGTAGG	AC_0 0017	UCUUGGGCCCCACCCCGGAGAC UGUGAAUCAGUAAGUAGAUCUG

	GCCTGG GAAT	7.1_1 9454	GGGUAGGGCCUGGGAAU
AC_000177.1_19454	TCTTGG GCCCA CCCCG GAGA	AC_0 0017 7.1_1 9454	UCUUGGGCCCCACCCCGGAGAC UGUGAAUCAGUAAGUAGAUCUG GGGUAGGGCCUGGGAAU
AC_000177.1_19475	CGGCTG GAGAAG AGGCGC	AC_0 0017 7.1_1 9475	GCCCGCAUCAGCCAAUCCACCAA GAGCUUCACGCCGGGGGAGCGG CUGGAGAAGAGGCGC
AC_000177.1_19475*	GCCCGC ATCAGC CAAT	AC_0 0017 7.1_1 9475	GCCCGCAUCAGCCAAUCCACCAA GAGCUUCACGCCGGGGGAGCGG CUGGAGAAGAGGCGC
AC_000177.1_19484	AAAAAG TTCGGTC AGGTTTT T	AC_0 0017 7.1_1 9484	AAAAAGUUCGGUCAGGUUUUUC CAUAAUGUUGGAUGGAAAACCC UGAACAAACUUAUUAA
AC_000177.1_19484*	AACCCT GAACAA ACTTATT AA	AC_0 0017 7.1_1 9484	AAAAAGUUCGGUCAGGUUUUUC CAUAAUGUUGGAUGGAAAACCC UGAACAAACUUAUUAA
AC_000177.1_19498*	AAACCT GAATGA ACTTTTG GCC	AC_0 0017 7.1_1 9498	CAAGAGUUCGUUUGGGUUUUC CAGAACGUAUUAUGAAAAAACC UGAAUGAACUUUUGGCC
AC_000177.1_19498	CAAGAG TTCGTTT GGGTTTT	AC_0 0017 7.1_1	CAAGAGUUCGUUUGGGUUUUC CAGAACGUAUUAUGAAAAAACC UGAAUGAACUUUUGGCC



		9498	
AC_000177.1_19573*	AAAAAC CTGAAC CAACTTT TTG	AC_0 0017 7.1_1 9573	GAAAGUUAGUUUGGAUUUUUCU AUACCCUCUUAUGGAAAAACCU GAACCAACUUUUUG
AC_000177.1_19573	GAAAGT TAGTTTG GATTTTT CT	AC_0 0017 7.1_1 9573	GAAAGUUAGUUUGGAUUUUUCU AUACCCUCUUAUGGAAAAACCU GAACCAACUUUUUG
AC_000177.1_19654*	GCCAAG GAGTTC ATTCATA AGATG	AC_0 0017 7.1_1 9654	GCCAAGGAGUUCAUUCAUAAGA UGAUACAGUAAAAUCCAAGUGA ACUUUUUGGCCA
AC_000177.1_19654	TCCAAG TGAACT TTTTGGC CA	AC_0 0017 7.1_1 9654	GCCAAGGAGUUCAUUCAUAAGA UGAUACAGUAAAAUCCAAGUGA ACUUUUUGGCCA
AC_000177.1_19669*	AATGTG GGAATA GGTATAT AAT	AC_0 0017 7.1_1 9669	UUAUAUACCUAUUACCACAUUU AAUGUUCACACCAAAAAUGUGG GAAUAGGUUAUAUAAU
AC_000177.1_19669	TTATATA CCTATTA CCACATT T	AC_0 0017 7.1_1 9669	UUAUAUACCUAUUACCACAUUU AAUGUUCACACCAAAAAUGUGG GAAUAGGUUAUAUAAU
AC_000177.1_19799	CAGGGA CTGGGG GATGGT GAGC	AC_0 0017 7.1_1 9799	CAGGGACUGGGGGAUGGUGAGC UGGACUUGCCCUGCAGAGUGCU GUCCCAGCUUUGUGCCUGGACC AUGCUGGA

AC_000177.1_19799*	TTTGTGC CTGGAC CATGCTG GA	AC_0 0017 7.1_1 9799	CAGGGACUGGGGGAUGGUGAGC UGGACUUGCCCUGCAGAGUGCU GUCCCAGCUUUGUGCCUGGACC AUGCUGGA
AC_000178.1_19863	ATAGCA GAGGAG TAGGAG GACA	AC_0 0017 8.1_1 9863	UUGUCCUACUUCUCAGCUGUCU UGACUCCCUAACAAGAUAGCAG AGGAGUAGGAGGACA
AC_000178.1_19863*	TTGTCCT ACTTCTC AGCTGT CT	AC_0 0017 8.1_1 9863	UUGUCCUACUUCUCAGCUGUCU UGACUCCCUAACAAGAUAGCAG AGGAGUAGGAGGACA
AC_000178.1_19895*	CCCCTG CCCTTCA TGCTCA ACACT	AC_0 0017 8.1_1 9895	CCCCUGCCCUUCAUGCUCAACAC UGAACUUGCAGCCGGAUGCAGU GGAGAGCCUGAUGGUGGGGUC
AC_000178.1_19895	TGGAGA GCCTGAT GGTGGG GTC	AC_0 0017 8.1_1 9895	CCCCUGCCCUUCAUGCUCAACAC UGAACUUGCAGCCGGAUGCAGU GGAGAGCCUGAUGGUGGGGUC
AC_000178.1_19901*	TGATTTT GATTGAT TCTGTG AC	AC_0 0017 8.1_1 9901	UGAUUUUGAUUGAUUCUGUGAC UGUUUUUAAAAGGCUACAUCAA GUCUUAGCUGCAGCAUGCAGGA UCUUUCGUUGUGGU
AC_000178.1_19901	TGCAGG ATCTTTC GTTGTG GT	AC_0 0017 8.1_1 9901	UGAUUUUGAUUGAUUCUGUGAC UGUUUUUAAAAGGCUACAUCAA GUCUUAGCUGCAGCAUGCAGGA UCUUUCGUUGUGGU
AC_000178.1_19953*	CAGCTG	AC_0	CAGCUGUCCACCACUGGGGCACC

	TCCACC ACTGGG G	0017 8.1_1 9953	AAGAUAGCCUACCACCCUGUGG GGUGGGGGUGCUAGAAGGAGAC CCCAGAAAGGAUGGGGACGGUC GGA
AC_000178.1_19953	CCAGAA AGGATG GGGACG GTCGGA	AC_0 0017 8.1_1 9953	CAGCUGUCCACCACUGGGGCACC AAGAUAGCCUACCACCCUGUGG GGUGGGGGUGCUAGAAGGAGAC CCCAGAAAGGAUGGGGACGGUC GGA
AC_000178.1_19991	GAGGAC TGGCAG AAGGGA	AC_0 0017 8.1_1 9991	GUUUCUGCCAUAACCUCAUUCU GGACCCCAGGAGGAGGAGGAGU CCUGGGGAGCUUGGAGGACUGG CAGAAGGGA
AC_000178.1_19991*	GTTTCTG CCATAAC CTCAT	AC_0 0017 8.1_1 9991	GUUUCUGCCAUAACCUCAUUCU GGACCCCAGGAGGAGGAGGAGU CCUGGGGAGCUUGGAGGACUGG CAGAAGGGA
AC_000178.1_19998*	ACTTGG GATCTCT GAGGCT GAG	AC_0 0017 8.1_1 9998	CAAACGAAGGGGAUUGGGGGGU CUUUUGGCUGAUGUAGAAUGUG CAGGUUGAGAGAACUUGGGAUC UCUGAGGCUGAG
AC_000178.1_19998	CAAACG AAGGGG ATTGGG GGGTC	AC_0 0017 8.1_1 9998	CAAACGAAGGGGAUUGGGGGGU CUUUUGGCUGAUGUAGAAUGUG CAGGUUGAGAGAACUUGGGAUC UCUGAGGCUGAG
AC_000178.1_20183*	CCTGTCT TCACGC TCACATA AGAC	AC_0 0017 8.1_2 0183	CCUGUCUUCACGCUCACAUAAAG ACAGAUUGUCUCUGUUGAUGUG GUCGGGGGGAUGGGA

AC_000178.1_20183	TGATGTG GTCGGG GGGATG GGA	AC_0 0017 8.1_2 0183	CCUGUCUUCACGCUCACAUAAAG ACAGAUUGUCUCUGUUGAUGUG GUCGGGGGGAUGGGA
AC_000178.1_20185*	GCCTCT GCTTCCC CCGCGG CG	AC_0 0017 8.1_2 0185	GCCUCUGCUUCCCCCGCGGCGCC UAGGGAGGGAGGGGUCGCGGGG UUUUGCAGAGGACU
AC_000178.1_20185	TCGCGG GGTTTTG CAGAGG ACT	AC_0 0017 8.1_2 0185	GCCUCUGCUUCCCCCGCGGCGCC UAGGGAGGGAGGGGUCGCGGGG UUUUGCAGAGGACU
AC_000178.1_20271	ATGTCAC TCGGCC CACTAC CC	AC_0 0017 8.1_2 0271	GUAAGUGUGUCUCGGGUGAGCA UGCAAUGAACGUGCUCGCAUGU CACUCGGCCCACUACCC
AC_000178.1_20271*	GTAAGT GTGTCTC GGGTGA GCATGC	AC_0 0017 8.1_2 0271	GUAAGUGUGUCUCGGGUGAGCA UGCAAUGAACGUGCUCGCAUGU CACUCGGCCCACUACCC
AC_000178.1_20293*	AGGTTG CCCGTG GCCCGT TCG	AC_0 0017 8.1_2 0293	AGGUUGCCCGUGGCCCGUUCGC AUUCUUCAUGACGCACAAUACA CGGUCGGCCUCU
AC_000178.1_20293	CACAAT ACACGG TCGGCC TCT	AC_0 0017 8.1_2 0293	AGGUUGCCCGUGGCCCGUUCGC AUUCUUCAUGACGCACAAUACA CGGUCGGCCUCU
AC_000178.1_20299*	AGTCGG	AC_0	AGUCGGCCGCGGGUAGCGGACG

	CCGCGG GTAGCG	0017 8.1_2 0299	AUCGGCCCGCGUCGCCCGUUUCU CUCGCGCGCCGGCU
AC_000178.1_20299	CCCGTTT CTCTCGC GCGCCG GCT	AC_0 0017 8.1_2 0299	AGUCGGCCCGCGGGUAGCGGACG AUCGGCCCGCGUCGCCCGUUUCU CUCGCGCGCCGGCU
AC_000170.1_12856>AC_00 0176.1_19037>AC_000187.1 _26549>AC_000169.1_12603 >AC_000178.1_20340	AAGAAG TTCGTTT GGGTTTT T	AC_0 0017 8.1_2 0340	AAGAAGUUCGUUUGGGUUUUUC UGUCCCAUGGAGACUGGACGUC UGGG
AC_000178.1_20340*	TGTCCC ATGGAG ACTGGA CGTCTG GG	AC_0 0017 8.1_2 0340	AAGAAGUUCGUUUGGGUUUUUC UGUCCCAUGGAGACUGGACGUC UGGG
AC_000178.1_20435	ACAGAG CGTGGG TGACCTT T	AC_0 0017 8.1_2 0435	ACAGAGCGUGGGUGACCUUUGC CUCUCCAGGUCCCCACGUCCAGC CC
AC_000178.1_20435*	AGGTCC CCACGT CCAGCC C	AC_0 0017 8.1_2 0435	ACAGAGCGUGGGUGACCUUUGC CUCUCCAGGUCCCCACGUCCAGC CC
AC_000178.1_20444*	AAGCGG GGCTGG GAGTGA CGGATG	AC_0 0017 8.1_2 0444	AAGCGGGGCUGGGAGUGACGGA UGCAAACGCUCUGGUGAUGCUG ACGCUUCCGCCCUUGGCCCCGCA GG
AC_000178.1_20444	TTCCGCC	AC_0	AAGCGGGGCUGGGAGUGACGGA

	CTTGGC CCCGCA GG	0017 8.1_2 0444	UGCAAACGCUCUGGUGAUGCUG ACGCUUCCGCCCUUGGCCCGCA GG
AC_000178.1_20473	CTGGGG GCGGTG GGGGGC G	AC_0 0017 8.1_2 0473	CUGGGGGCGGUGGGGGGCGGUG GUGGUGCUGUCCCAGAGUGGCC CCGGGA
AC_000178.1_20473*	TCCCAG AGTGGC CCCGGG GA	AC_0 0017 8.1_2 0473	CUGGGGGCGGUGGGGGGCGGUG GUGGUGCUGUCCCAGAGUGGCC CCGGGA
AC_000178.1_20488>AC_00 0178.1_20487	ACCAGA CCCTTG GCCCTT GCA	AC_0 0017 8.1_2 0487	ACCAGACCCUUGGCCCUUGCAGC CCAGGGCAUCUCUCCUGUGCU GGACUGGGGCUUCUGCUGUUGU UGGCUUC
AC_000178.1_20487*	CTGGGG CTTCTGC TGTTGTT GGCTTC	AC_0 0017 8.1_2 0487	ACCAGACCCUUGGCCCUUGCAGC CCAGGGCAUCUCUCCUGUGCU GGACUGGGGCUUCUGCUGUUGU UGGCUUC
AC_000178.1_20488>AC_00 0178.1_20487	ACCAGA CCCTTG GCCCTT GCA	AC_0 0017 8.1_2 0488	GGAGGGCCAGGGGCUCUGGUCC CACUUGUGACUCCCAUCUCAG GACCAGACCCUUGGCCCUUGCA
AC_000178.1_20488*	GGAGGG CCAGGG GCTCTG GTCC	AC_0 0017 8.1_2 0488	GGAGGGCCAGGGGCUCUGGUCC CACUUGUGACUCCCAUCUCAG GACCAGACCCUUGGCCCUUGCA
AC_000178.1_20551*	AGGGAT GTTAAG	AC_0 0017	AUGGUGACUUUUUAUAUGCCCU CUAUCCCAAGACUAUGGCCAGA

	GTCACC AAGA	8.1_2 0551	GGGAUGUUAAGGUCACCAAGA
AC_000178.1_20551	ATGGTG ACTTTTT ATATGCC CTCT	AC_0 0017 8.1_2 0551	AUGGUGACUUUUUAUAUGCCCU CUAUCCCAAGACUAUGGCCAGA GGGAUGUUAAGGUCACCAAGA
AC_000178.1_20579*	AAAAAC CAAATG AACTTTT T	AC_0 0017 8.1_2 0579	UAAAGUUCAUUCGGGUUUUUUG GUACCAUCUUAUGGAAAAAACC AAAUGAACUUUUU
AC_000185.1_24616>AC_00 0167.1_10076>AC_000178.1 _20579>AC_000178.1_20580	TAAAGT TCATTCTG GGTTTTT	AC_0 0017 8.1_2 0579	UAAAGUUCAUUCGGGUUUUUUG GUACCAUCUUAUGGAAAAAACC AAAUGAACUUUUU
AC_000178.1_20580*	CGGCC TCTTGG AATTTAT T	AC_0 0017 8.1_2 0580	CGGCCUCUUGGAAUUUAUUGA AUUGGCCAUAAAGUUCAUUCGG GUUUUU
AC_000185.1_24616>AC_00 0167.1_10076>AC_000178.1 _20579>AC_000178.1_20580	TAAAGT TCATTCTG GGTTTTT	AC_0 0017 8.1_2 0580	CGGCCUCUUGGAAUUUAUUGA AUUGGCCAUAAAGUUCAUUCGG GUUUUU
AC_000178.1_20604*	ACATGTT ACTCCA GGTGTAT GAT	AC_0 0017 8.1_2 0604	ACAUGUACUCCAGGUGUAUGA UCUAGGAGGGGUUCAUCCUGGA GACUGUGGAUGGGCAACCUAG GUGCAGGGACUGGGAGGAGAUG UCA
AC_000178.1_20604	CAGGGA CTGGGA	AC_0 0017	ACAUGUACUCCAGGUGUAUGA UCUAGGAGGGGUUCAUCCUGGA

	GGAGAT GTCA	8.1_2 0604	GACUGUGGAUGGGCAACCUUAG GUGCAGGGACUGGGAGGAGAUG UCA
AC_000178.1_20611*	AGCTGC TGAGTG GGGCTG CGCTCA GGA	AC_0 0017 8.1_2 0611	CUGAGCCCCACUGAACGGCUG GCUCUUCAUCCGGUCCAUCCAGC UGCUGAGUGGGGCUGCGCUCAG GA
AC_000178.1_20611	CTGAGC CCCCAC TGAACG GCTGG	AC_0 0017 8.1_2 0611	CUGAGCCCCACUGAACGGCUG GCUCUUCAUCCGGUCCAUCCAGC UGCUGAGUGGGGCUGCGCUCAG GA
AC_000178.1_20645	AAGTAC AGGATG CCCAAT GAAT	AC_0 0017 8.1_2 0645	AAGUACAGGAUGCCCAAUGAAU UAAAUCCAUCUAAAUACAUUUC ACUGGGCAUCCUCUGCUUUAU
AC_000178.1_20645*	TCACTG GGCATC CTCTGCT TTAT	AC_0 0017 8.1_2 0645	AAGUACAGGAUGCCCAAUGAAU UAAAUCCAUCUAAAUACAUUUC ACUGGGCAUCCUCUGCUUUAU
AC_000178.1_20650*	CGGTTTA CCGTCC CACATAC ATA	AC_0 0017 8.1_2 0650	CGGUUUACCGUCCACAUAUACAU AUUCAGAAUGUAUGUGGGACGG UAAACCA
AC_000178.1_20650	GTATGTG GGACGG TAAACC A	AC_0 0017 8.1_2 0650	CGGUUUACCGUCCACAUAUACAU AUUCAGAAUGUAUGUGGGACGG UAAACCA
AC_000178.1_20679*	CTCGGT	AC_0	UGGGGUGGGAGGAUGGAGAGGA



	GCTCTA AACCAC G	0017 8.1_2 0679	GAGCUGAUGCGGGUGGGACGCU CUGGCUGCAGGUAAGACGUCUG CUCGGUGCUCUAAACCACG
AC_000165.1_8809>AC_000178.1_20679>AC_000162.1_5284	TGGGGT GGGAGG ATGGAG AG	AC_0 0017 8.1_2 0679	UGGGGUGGGAGGAUGGAGAGGA GAGCUGAUGCGGGUGGGACGCU CUGGCUGCAGGUAAGACGUCUG CUCGGUGCUCUAAACCACG
AC_000179.1_20692*	CACCAG CCAAGG AATGAA GGCAGC A	AC_0 0017 9.1_2 0692	CUGCUGACUUUGAAGGUGGAGG AAGGAGGCCACCAGCCAAGGAA UGAAGGCAGCA
AC_000179.1_20692	CTGCTG ACTTTG AAGGTG GA	AC_0 0017 9.1_2 0692	CUGCUGACUUUGAAGGUGGAGG AAGGAGGCCACCAGCCAAGGAA UGAAGGCAGCA
AC_000179.1_20704	TAGGCA GAGATG ACAGTC ATACT	AC_0 0017 9.1_2 0704	UAGGCAGAGAUGACAGUCAUAC UGUUGAAUUGCCAGUAUGGCAG UGUCACUGACCAACA
AC_000179.1_20704*	TATGGCA GTGTCA CTGACC AACA	AC_0 0017 9.1_2 0704	UAGGCAGAGAUGACAGUCAUAC UGUUGAAUUGCCAGUAUGGCAG UGUCACUGACCAACA
AC_000179.1_20705*	AGAGGC TTCACA GCAAAG ACCTGG CC	AC_0 0017 9.1_2 0705	AGAGGCUUCACAGCAAAGACCU GGCCUGGAGGUGGCGUGGGGCU GUGGGGCAUGGGU

AC_000179.1_20705	CGTGGG GCTGTG GGGCAT GGGT	AC_0 0017 9.1_2 0705	AGAGGCUUCACAGCAAAGACCU GGCCUGGAGGUGGCGUGGGGCU GUGGGGCAUGGGU
AC_000179.1_20733*	AGGCCC GGCCCC CGCGGT CTGTGG TG	AC_0 0017 9.1_2 0733	AGGCCCGGCCCGCGGUCUGUG GUGUAGAGAAGCCUCCGCCGCC GCCGCGGCCGGGUCUCU
AC_000179.1_20733	CCGCCG CCGCGG CCGGGT CTCT	AC_0 0017 9.1_2 0733	AGGCCCGGCCCGCGGUCUGUG GUGUAGAGAAGCCUCCGCCGCC GCCGCGGCCGGGUCUCU
AC_000179.1_20738	AGGACC TGAATT GCTGTG GCCAG	AC_0 0017 9.1_2 0738	AGGACCUGACUUGCUGUGGCCA GCCCAUUCUCAAGAAGCUGCC CAGCUCCUCCAGCCCUCC
AC_000179.1_20738*	TGCCCA GCTCCTC CAGCCC TCC	AC_0 0017 9.1_2 0738	AGGACCUGACUUGCUGUGGCCA GCCCAUUCUCAAGAAGCUGCC CAGCUCCUCCAGCCCUCC
AC_000179.1_20791	AAAAAG TTCATTT GGGTTTT T	AC_0 0017 9.1_2 0791	AAAAAGUUCAUUUGGGUUUUUC CAUCUGUAGCAUCUUAUGGAAA AAGCUGAACGAACUUUUUGGCC
AC_000179.1_20791*	AAAGCT GAACGA ACTTTTT GGCC	AC_0 0017 9.1_2 0791	AAAAAGUUCAUUUGGGUUUUUC CAUCUGUAGCAUCUUAUGGAAA AAGCUGAACGAACUUUUUGGCC

AC_000173.1_15395>AC_00 0179.1_20793	AAAAGC CAGAAT GAACTT TTT	AC_0 0017 9.1_2 0793	AAAGUUUGUUCAAGUGUUUCC AUAAGAUGUUACAGAAAAGCCA GAAUGAACUUUUU
AC_000179.1_20793*	AAAGTT TGTTCA AGTGTTT TCC	AC_0 0017 9.1_2 0793	AAAGUUUGUUCAAGUGUUUCC AUAAGAUGUUACAGAAAAGCCA GAAUGAACUUUUU
AC_000179.1_20862	CTGGTG GTTAGG ATTCGGC ACT	AC_0 0017 9.1_2 0862	CUGGUGGUUAGGAUUCGGCACU UUUCACUGCUGUGGCCUGGGCU CAACCCGUG
AC_000179.1_20862*	TGCTGT GGCCTG GGCTCA ACCCGT G	AC_0 0017 9.1_2 0862	CUGGUGGUUAGGAUUCGGCACU UUUCACUGCUGUGGCCUGGGCU CAACCCGUG
AC_000179.1_20917	AAGCCC CTGTGC CGCCTA CTAC	AC_0 0017 9.1_2 0917	GACUGGGCCCAACUGGGGCUGU GUCAGACUCCAAGCCCCUAC UCAAGCCCCUGUGCCGCCUACUA C
AC_000179.1_20917*	GACTGG GCCCAA CTGGGG CTGTG	AC_0 0017 9.1_2 0917	GACUGGGCCCAACUGGGGCUGU GUCAGACUCCAAGCCCCUAC UCAAGCCCCUGUGCCGCCUACUA C
AC_000179.1_20974*	CACCATC AGACTG ACCCCG GGGCT	AC_0 0017 9.1_2 0974	GGGGAUCAGCUGAUGGGCGGGC UGGGGAGGGCUCCUCCACAAC ACCCACCAUCAGACUGACCCCGG GGCU

AC_000179.1_20974	GGGGAT CAGCTG ATGGGC GGGCT	AC_0 0017 9.1_2 0974	GGGGAUCAGCUGAUGGGCGGGC UGGGGAGGGCUCCUCCCACAAC ACCCACCAUCAGACUGACCCCGG GGCU
AC_000179.1_20997*	ACTGCC TGCCCA GAGTCC TGTGCCT	AC_0 0017 9.1_2 0997	ACUGCCUGCCCAGAGUCCUGUG CCUCCUGCGUCUCACCCAGAGGC UGACUCUGAGCCCGGCAGUGU
AC_000179.1_20997	GCTGAC TCTGAG CCCGGC AGTGT	AC_0 0017 9.1_2 0997	ACUGCCUGCCCAGAGUCCUGUG CCUCCUGCGUCUCACCCAGAGGC UGACUCUGAGCCCGGCAGUGU
AC_000179.1_21048	AGAGTG ACCTGT GCGGCT GCCAC	AC_0 0017 9.1_2 1048	GGAGCUGCCCAGGUCACAGCUC UGUGCAUGAGUGAUUCUAGUCC CCAGAGAGUGACCUGUGCGGCU GCCAC
AC_000179.1_21048*	GGAGCT GCCCAG GTCACA GCTCT	AC_0 0017 9.1_2 1048	GGAGCUGCCCAGGUCACAGCUC UGUGCAUGAGUGAUUCUAGUCC CCAGAGAGUGACCUGUGCGGCU GCCAC
AC_000179.1_21061*	CATCCCT TTCCTCT ACTGTT GAGGCC	AC_0 0017 9.1_2 1061	CCUGUGGGGGAUUGUGGGAUGU CUAGUGGCAUCCCUUCCUCUA CUGUUGAGGCC
AC_000179.1_21061	CCTGTG GGGGAT TGTGGG ATGTC	AC_0 0017 9.1_2 1061	CCUGUGGGGGAUUGUGGGAUGU CUAGUGGCAUCCCUUCCUCUA CUGUUGAGGCC
AC_000179.1_21134*	AAAAAG	AC_0	AAAAAGUUUAUUUGGGUUUUUC

	TTTATTT GGGTTTT TC	0017 9.1_2 1134	AAUAUCAUACGGAAAGCCCAGA UGAACUUUUUG
AC_000179.1_21134	AAGCCC AGATGA ACTTTTT G	AC_0 0017 9.1_2 1134	AAAAAGUUUAAUUUGGGUUUUUC AAUAUCAUACGGAAAGCCCAGA UGAACUUUUUG
AC_000179.1_21150*	GCCAAA GTTCCCT CGAGTT	AC_0 0017 9.1_2 1150	GCCAAAGUCCUUCGAGUUUUU UCAUAUCAUCUUUUGGAAACAU CUGAAUGAACUUUGUGGCCA
AC_000179.1_21150	TCTGAAT GAACTT TGTGGC CA	AC_0 0017 9.1_2 1150	GCCAAAGUCCUUCGAGUUUUU UCAUAUCAUCUUUUGGAAACAU CUGAAUGAACUUUGUGGCCA
AC_000179.1_21241	CGGGTT GTGGAG GATGTG GGC	AC_0 0017 9.1_2 1241	CGGGUUGUGGAGGAUGUGGGCC ACCCACGGGCUGGCCGUGGCCG UGGCUCUGAGCGUGCUGCCGGC CAGCC
AC_000179.1_21241*	TCTGAG CGTGCT GCCGGC CAGCC	AC_0 0017 9.1_2 1241	CGGGUUGUGGAGGAUGUGGGCC ACCCACGGGCUGGCCGUGGCCG UGGCUCUGAGCGUGCUGCCGGC CAGCC
AC_000179.1_21265	GAACGA AATCCA AGCGCA GCTG	AC_0 0017 9.1_2 1265	GAACGAAAUCCAAGCGCAGCUG GAAUGCUCUGGAGACAACAGCU GCUUUUGGAUUCCGUUGCC
AC_000179.1_21265*	GCTGCTT TTGGGAT	AC_0 0017	GAACGAAAUCCAAGCGCAGCUG GAAUGCUCUGGAGACAACAGCU

	TCCGTTG CC	9.1_2 1265	GCUUUUGGGAUUCCGUUGCC
AC_000179.1_21269	AGGAGA GCTCCA GCCCCA CGGT	AC_0 0017 9.1_2 1269	AGGAGAGCUCCAGCCCCACGGU GAUGAAUCUGCCCUGGGGAAGG AGCCCUGCCCCU
AC_000179.1_21269*	CCTGGG GAAGGA GCCCTG CCCCT	AC_0 0017 9.1_2 1269	AGGAGAGCUCCAGCCCCACGGU GAUGAAUCUGCCCUGGGGAAGG AGCCCUGCCCCU
AC_000179.1_21329	CCTCCTC GCCGCC CCGCGC	AC_0 0017 9.1_2 1329	GCGGGCUGGGAGGGGCGGUGCG CCAGCCGCGCGCCCGGCCUCCUC GCCGCCCCGCGC
AC_000179.1_21329*	GCGGGC TGGGAG GGGCG	AC_0 0017 9.1_2 1329	GCGGGCUGGGAGGGGCGGUGCG CCAGCCGCGCGCCCGGCCUCCUC GCCGCCCCGCGC
AC_000180.1_21368*	AGACTA AACTCTT TTTCTGC CC	AC_0 0018 0.1_2 1368	GUAGGAAGAGAAGGAGUUUUGC UAAUAGAGACCAAAGAUGGGA AUGAAAAUCAGACUAAACUCUU UUUCUGCCC
AC_000180.1_21368	GTAGGA AGAGAA GGAGTT TTG	AC_0 0018 0.1_2 1368	GUAGGAAGAGAAGGAGUUUUGC UAAUAGAGACCAAAGAUGGGA AUGAAAAUCAGACUAAACUCUU UUUCUGCCC
AC_000180.1_21398*	CCGAAC AAACTT TCTGGC	AC_0 0018 0.1_2	UGGCCAAAAAGGUCGUUUGGGU UUUCGUGUAACAGCUUAUAGAA GAACCCGAACAAACUUUCUGGC

	CAAC	1398	CAAC
AC_000164.1_7566>AC_000180.1_21398	TGGCCA AAAAGG TCGTTT GGT	AC_0 0018 0.1_2 1398	UGGCCAAAAAGGUCGUUUGGGU UUUCGUGUAAACAGCUUAUAGAA GAACCCGAACAAACUUUCUGGC CAAC
AC_000180.1_21399*	CCGGGC CCACTT GTCTCC AGAAG	AC_0 0018 0.1_2 1399	CCGGGCCACUUGUCUCCAGAA GUGCAGCUGAAGGAACUCCUGG AGAAAUUGGACCUGGUG
AC_000180.1_21399	CCTGGA GAAATT GGACCT GGTG	AC_0 0018 0.1_2 1399	CCGGGCCACUUGUCUCCAGAA GUGCAGCUGAAGGAACUCCUGG AGAAAUUGGACCUGGUG
AC_000180.1_21424*	AAAAAC ATGAATG AACCTTT TG	AC_0 0018 0.1_2 1424	AAAAAGUUCGUUUAGUUUUUUU UGUCAGAUAUUAUGGAAAAACA UGAAUGAACCUUUUG
AC_000180.1_21424	AAAAAG TTCGTTT AGTTTTT T	AC_0 0018 0.1_2 1424	AAAAAGUUCGUUUAGUUUUUUU UGUCAGAUAUUAUGGAAAAACA UGAAUGAACCUUUUG
AC_000180.1_21446	AAGTTG GGCTGG GGAGAA GAAGGA	AC_0 0018 0.1_2 1446	AAGUUGGGCUGGGGAGAAGAAG GAGCUGGGCCUUUCCUGAGCC CUGACCUGA
AC_000180.1_21446*	TTTCCT GAGCCC TGACCT GA	AC_0 0018 0.1_2 1446	AAGUUGGGCUGGGGAGAAGAAG GAGCUGGGCCUUUCCUGAGCC CUGACCUGA

AC_000180.1_21512*	AGGACC TCCTCAT CAGCT	AC_0 0018 0.1_2 1512	CUGAGAUGUCGGCUCUCCUUG GUCUCGAGGCUGCUGGCCUUCA GACAGGACCUCCUCAUCAGCU
AC_000180.1_21512	CTGAGA TGTCGG CTCTTC	AC_0 0018 0.1_2 1512	CUGAGAUGUCGGCUCUCCUUG GUCUCGAGGCUGCUGGCCUUCA GACAGGACCUCCUCAUCAGCU
AC_000180.1_21540	ATGCCTT CCCCAG CCTCCG AG	AC_0 0018 0.1_2 1540	AUGCCUCCCCAGCCUCCGAGCC CUCAUAGCUGCUCGCUACGGGG AAGCUGGGGAGGGUC
AC_000180.1_21540*	TACGGG GAAGCT GGGGAG GGTC	AC_0 0018 0.1_2 1540	AUGCCUCCCCAGCCUCCGAGCC CUCAUAGCUGCUCGCUACGGGG AAGCUGGGGAGGGUC
AC_000180.1_21971>AC_00 0180.1_21965>AC_000180.1 _21550>AC_000180.1_21975	CGGGTG GTCGGG GCGGGT CA	AC_0 0018 0.1_2 1550	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCGUCCAAGAGAUG UACGGCUGCGACGUGGGGCCGG ACGGGCUUCUCCGCG
AC_000180.1_21550*	GGCCGG ACGGGC TTCTCCG CG	AC_0 0018 0.1_2 1550	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCGUCCAAGAGAUG UACGGCUGCGACGUGGGGCCGG ACGGGCUUCUCCGCG
AC_000180.1_21679*	CTGGGC CCACCC ATCAGC ATG	AC_0 0018 0.1_2 1679	CUGGGCCCACCCAUCAGCAUGG UCCAGUCGGCUGGCUAACCUGA CUGACGGAUGGGCCCAUGA
AC_000180.1_21679	TGACTG	AC_0	CUGGGCCCACCCAUCAGCAUGG



	ACGGAT GGGCCC ATGA	0018 0.1_2 1679	UCCAGUCGGCUGGCUAACCUGA CUGACGGAUGGGCCCAUGA
AC_000180.1_21704	TGAGGG GCAGAG AGAGAG G	AC_0 0018 0.1_2 1704	UGAGGGGCAGAGAGAGAGGAGC AAAGGGCUUCAGGAACUCAGCC CAAGCUCUUUUCAAGGCCUCA UG
AC_000180.1_21704*	TTTCAA GGCCCT CATG	AC_0 0018 0.1_2 1704	UGAGGGGCAGAGAGAGAGGAGC AAAGGGCUUCAGGAACUCAGCC CAAGCUCUUUUCAAGGCCUCA UG
AC_000180.1_21742>AC_00 0175.1_17579	CAACAA GTTTGT TGGGTT TT	AC_0 0018 0.1_2 1742	CAACAAGUUUGUUUGGGUUUUU CCAUACAUACGUACAGAAAAC CCAAAUGAACUCGUUGGCC
AC_000180.1_21742*	CCCAAA TGAACT CGTTGG CC	AC_0 0018 0.1_2 1742	CAACAAGUUUGUUUGGGUUUUU CCAUACAUACGUACAGAAAAC CCAAAUGAACUCGUUGGCC
AC_000180.1_21751	CGGGGG GCGGGG TGGGGG G	AC_0 0018 0.1_2 1751	UUUCACUCUGAUGGAUUCUGUG UGGGAGAGGCGAGUGGCCGCGC GGGGGGCGGGGUGGGGGG
AC_000180.1_21751*	TTTCACT CTGATG GATTCTG TG	AC_0 0018 0.1_2 1751	UUUCACUCUGAUGGAUUCUGUG UGGGAGAGGCGAGUGGCCGCGC GGGGGGCGGGGUGGGGGG
AC_000180.1_21777	GAGGTA GGGTA	AC_0 0018	GAGGUAGGGGUAGAGGAGGGAA GGGCUCUGUGUUUAAGAUGCUC

	GAGGAG GGA	0.1_2 1777	ACUUUGCCUUCUCUU
AC_000180.1_21777*	GCTCAC TTTGCTT TCTCTT	AC_0 0018 0.1_2 1777	GAGGUAGGGGUAGAGGAGGGAA GGGCUCUGUGUUUAAGAUGCUC ACUUUGCCUUCUCUU
AC_000180.1_21783	CAGATCT GTCCTG AAACCA GCA	AC_0 0018 0.1_2 1783	CAGAUCUGUCCUGAAACCAGCA UAAAGUAGCAGCUGCCAUACUG GUUUCAGGACAGAUCUCUC
AC_000180.1_21783*	CTGGTTT CAGGAC AGATCTC TC	AC_0 0018 0.1_2 1783	CAGAUCUGUCCUGAAACCAGCA UAAAGUAGCAGCUGCCAUACUG GUUUCAGGACAGAUCUCUC
AC_000180.1_21786*	CCTGCA GGAGCG GAGCCG GGCG	AC_0 0018 0.1_2 1786	CCUGCAGGAGCGGAGCCGGGCG CAGGGCGUGUCCGGCUGUCUGC CCUGCAGGGA
AC_000180.1_21786	TCCGGC TGTCTGC CCTGCA GGGA	AC_0 0018 0.1_2 1786	CCUGCAGGAGCGGAGCCGGGCG CAGGGCGUGUCCGGCUGUCUGC CCUGCAGGGA
AC_000180.1_21834*	GCATAA GAGACC TTCGCTA C	AC_0 0018 0.1_2 1834	GCAUAAGAGACCUUCGCUACAU CAUGCAGGAUCUUUCGUUGUGG UG
AC_000161.1_4647>AC_000 180.1_21834	TGCAGG ATCTTTC GTTGTG	AC_0 0018 0.1_2	GCAUAAGAGACCUUCGCUACAU CAUGCAGGAUCUUUCGUUGUGG UG

	GTG	1834	
AC_000180.1_21887	AAGGAG TGGGCG TGGAGG GCT	AC_0 0018 0.1_2 1887	AAGGAGUGGGCGUGGAGGGCUC CGGCAACCCUCAAUUCUGCCCCAG AGCUGGGUCUUCCACCCCAACAC CUUUG
AC_000180.1_21887*	TCTTCCA CCCCAA CACCTTT G	AC_0 0018 0.1_2 1887	AAGGAGUGGGCGUGGAGGGCUC CGGCAACCCUCAAUUCUGCCCCAG AGCUGGGUCUUCCACCCCAACAC CUUUG
AC_000180.1_21905*	AAAAAA GGAATG AATCTTT TGG	AC_0 0018 0.1_2 1905	AAAAGUUCUUUCGGGUUUUUC AUAAGAUACUAUGGGAAAAAAG GAAUGAAUCUUUUGG
AC_000180.1_21905	AAAAGT TCTTTCG GGTTTTT C	AC_0 0018 0.1_2 1905	AAAAGUUCUUUCGGGUUUUUC AUAAGAUACUAUGGGAAAAAAG GAAUGAAUCUUUUGG
AC_000180.1_21965*	ACGGGA GCCTTCT CCGCG	AC_0 0018 0.1_2 1965	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCCUCCAGCUGAUG UACGGCUGCGACGUGGGGCCGG ACGGGAGCCUUCUCCGCG
AC_000180.1_21971>AC_00 0180.1_21965>AC_000180.1 _21550>AC_000180.1_21975	CGGGTG GTCGGG GCGGGT CA	AC_0 0018 0.1_2 1965	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCCUCCAGCUGAUG UACGGCUGCGACGUGGGGCCGG ACGGGAGCCUUCUCCGCG
AC_000180.1_21970>AC_00 0180.1_21969	CGGGTG GTCGGG GTGGGT CAG	AC_0 0018 0.1_2 1969	CGGGUGGUCGGGGUGGGUCAGG GUCUCACACCAUCCAGUGGAUG CACGGCUGCGGCGUGGGGUCGG ACGGGCGCCUCCUCCGCG

AC_000180.1_21969*	GACGGG CGCCTC CTCCGC G	AC_0 0018 0.1_2 1969	CGGGUGGUCGGGGUGGGUCAGG GUCUCACACCAUCCAGUGGAUG CACGGCUGCGGGCUGGGGUCGG ACGGGCGCCUCCUCCGCG
AC_000180.1_21970*	CCCCTG CCTGGA GAAGCC GGTG	AC_0 0018 0.1_2 1970	CCCCUGCCUGGAGAAGCCGGUG GGGACUUGACCCGGUUUCAUUU UCAGUUUGGGUUUAAUCACCGC GGGUGGUCGGGGUGGGUCAG
AC_000180.1_21970>AC_00 0180.1_21969	CGGGTG GTCGGG GTGGGT CAG	AC_0 0018 0.1_2 1970	CCCCUGCCUGGAGAAGCCGGUG GGGACUUGACCCGGUUUCAUUU UCAGUUUGGGUUUAAUCACCGC GGGUGGUCGGGGUGGGUCAG
AC_000180.1_21971*	ACGGGC GTCTCCT CCGCG	AC_0 0018 0.1_2 1971	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCCUCCAGUGGAUG UACGGCUGCGACGUGGGGCCGG ACGGGCGUCUCCUCCGCG
AC_000180.1_21971>AC_00 0180.1_21965>AC_000180.1 _21550>AC_000180.1_21975	CGGGTG GTCGGG GCGGGT CA	AC_0 0018 0.1_2 1971	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCCUCCAGUGGAUG UACGGCUGCGACGUGGGGCCGG ACGGGCGUCUCCUCCGCG
AC_000180.1_21972*	CCCCCG CCCGGG AGGAGC CGGCG	AC_0 0018 0.1_2 1972	CCCCCGCCCGGGAGGAGCCGGCG GGGCUUGACCCGGUUUCAUUUU CAGUUUGGGUUUAAUCACCGCG GGUGGUCGGGGCGGGUCAG
AC_000180.1_21972	CGGGTG GTCGGG GCGGGT CAG	AC_0 0018 0.1_2 1972	CCCCCGCCCGGGAGGAGCCGGCG GGGCUUGACCCGGUUUCAUUUU CAGUUUGGGUUUAAUCACCGCG GGUGGUCGGGGCGGGUCAG
AC_000180.1_21975*	ACGGGC	AC_0	CGGGUGGUCGGGGCGGGUCAGG

	GTTTCCT CCGCG	0018 0.1_2 1975	GUCUCACACCCUCCAGUGGAUG UACGGCUGCGACGUGGAGCCGG ACGGGCGUUUCCUCCGCG
AC_000180.1_21971>AC_00 0180.1_21965>AC_000180.1 _21550>AC_000180.1_21975	CGGGTG GTCGGG GCGGGT CA	AC_0 0018 0.1_2 1975	CGGGUGGUCGGGGCGGGUCAGG GUCUCACACCCUCCAGUGGAUG UACGGCUGCGACGUGGAGCCGG ACGGGCGUUUCCUCCGCG
AC_000180.1_22101*	AAACCC AAACAA ACTTTAT G	AC_0 0018 0.1_2 2101	AAAGGUUCUUUUGGGUUUUUCA UAGCAUUCUAUGGAAAAACCCA AACAAACUUUAUG
AC_000180.1_22101>AC_00 0187.1_27021	AAAGGT TCTTTTG GGTTTTT	AC_0 0018 0.1_2 2101	AAAGGUUCUUUUGGGUUUUUCA UAGCAUUCUAUGGAAAAACCCA AACAAACUUUAUG
AC_000168.1_11260*>AC_0 00171.1_14343*>AC_000180 .1_22115*	AAAACC CAAACA AACTTTT TGG	AC_0 0018 0.1_2 2115	AGAAAGUUCGUUUGGGUUUUUC UACAAGAUGUUAUGGAAAAACC CAAACAAACUUUUUGG
AC_000180.1_22115	AGAAAG TTCGTTT GGGTTTT T	AC_0 0018 0.1_2 2115	AGAAAGUUCGUUUGGGUUUUUC UACAAGAUGUUAUGGAAAAACC CAAACAAACUUUUUGG
AC_000180.1_22178*	ACATCC GACTCTT TGCGAC TTC	AC_0 0018 0.1_2 2178	ACAUCCGACUCUUUGCGACUUC UCUAGCCAAGAGUACUGGAGUC GUACUGGAGUCGGGUGUCA
AC_000180.1_22178	AGTCGT ACTGGA	AC_0 0018	ACAUCCGACUCUUUGCGACUUC UCUAGCCAAGAGUACUGGAGUC

	GTCGGG TGTC A	0.1_2 2178	GUACUGGAGUCGGGUGUCA
AC_000181.1_22204>AC_00 0160.1_3149	ACATGG GACTGT GGGAAA GGCA	AC_0 0018 1.1_2 2204	ACAUGGGACUGUGGGAAAGGCA GUCCCCUCCGCCCUCCAGAGGA CUUGUUGAUUUACCGGGAAGGC UGAGUCCCAUAUGUCUCCUCCA C
AC_000181.1_22204*	CTGAGT CCCATAT GTCTCCT CCAC	AC_0 0018 1.1_2 2204	ACAUGGGACUGUGGGAAAGGCA GUCCCCUCCGCCCUCCAGAGGA CUUGUUGAUUUACCGGGAAGGC UGAGUCCCAUAUGUCUCCUCCA C
AC_000181.1_22220*	GCCCCTT CCCGCT CCCCAG CCCCC	AC_0 0018 1.1_2 2220	GUGGGGGCGGUGAUGGGACUGC CUUUUCCUCCAACAGCCCCUCC CGCUCCCCAGCCCC
AC_000181.1_22220	GTGGGG GCGGTG ATGGGA CTG	AC_0 0018 1.1_2 2220	GUGGGGGCGGUGAUGGGACUGC CUUUUCCUCCAACAGCCCCUCC CGCUCCCCAGCCCC
AC_000181.1_22284*	AAACCC GATGAA ACATTTT GG	AC_0 0018 1.1_2 2284	AAUAAGUUUGUUUGGGUUUUC CGUAAGUUGUAAUGGAAAAACC CGAUGAAACAUUUUGG
AC_000181.1_22284	AATAAG TTTGTTT GGGTTT C	AC_0 0018 1.1_2 2284	AAUAAGUUUGUUUGGGUUUUC CGUAAGUUGUAAUGGAAAAACC CGAUGAAACAUUUUGG
AC_000181.1_22322*	GCTTCCC	AC_0	UGCCACCCAGGGACGCCCUCC

	TGGTGG GTCTGA C	0018 1.1_2 2322	CUGCUAUUUGGGCUUCCCUGGU GGGUCUGAC
AC_000181.1_22322	TGCCCA CCCAGG GACGCC C	AC_0 0018 1.1_2 2322	UGCCCACCCAGGGACGCCCUUCC CUGCUAUUUGGGCUUCCCUGGU GGGUCUGAC
AC_000181.1_22333*	CCAGTG CATGGA CTTCTCA TTGCA	AC_0 0018 1.1_2 2333	CCAGUGCAUGGACUUCUCAUUG CAGUCCUUCUCCUGUUGGGAA GCACAGACACUAGGA
AC_000181.1_22333	TTGGGA AGCACA GACACT AGGA	AC_0 0018 1.1_2 2333	CCAGUGCAUGGACUUCUCAUUG CAGUCCUUCUCCUGUUGGGAA GCACAGACACUAGGA
AC_000181.1_22340*	AAACTT GAATGA ACTTTCT GAC	AC_0 0018 1.1_2 2340	CAAAAGUUUGUUUGGGUUUUC AUAUGAUCUUAUGCAAAAACUU GAAUGAACUUUCUGAC
AC_000181.1_22340	CAAAAG TTTGTTT GGGTTTT C	AC_0 0018 1.1_2 2340	CAAAAGUUUGUUUGGGUUUUC AUAUGAUCUUAUGCAAAAACUU GAAUGAACUUUCUGAC
AC_000181.1_22342	AAAAGT TCGTGC AGGTTTT TT	AC_0 0018 1.1_2 2342	AAAAGUUCGUGCAGGUUUUUUU UCACUACAGAAAAGUCCACAC AAACUUUUUG
AC_000181.1_22342*	AAAGTC CACACA	AC_0 0018	AAAAGUUCGUGCAGGUUUUUUU UCACUACAGAAAAGUCCACAC

	AACTTTT TG	1.1_2 2342	AAACUUUUUG
AC_000181.1_22370	ACCGGG GCGGAG CTTAAG AGCGGA	AC_0 0018 1.1_2 2370	ACCGGGGCGGAGCUUAAGAGCG GAGGAGCGAAUGCACGAGCGCC GCUCUCGGGCACCCGCCCGCCU G
AC_000181.1_22370*	CGCTCTC GGGCAC CCGCC CGCCTG	AC_0 0018 1.1_2 2370	ACCGGGGCGGAGCUUAAGAGCG GAGGAGCGAAUGCACGAGCGCC GCUCUCGGGCACCCGCCCGCCU G
AC_000181.1_22460	AAAGAG GTCGTTT GGGTTTT	AC_0 0018 1.1_2 2460	AAAGAGGUCGUUUGGGUUUUUC CAUAAGGUGUCACAGGAAAAGC CCAAGGAGCUGUUUGG
AC_000181.1_22460*	AGCCCA AGGAGC TGTTTGG	AC_0 0018 1.1_2 2460	AAAGAGGUCGUUUGGGUUUUUC CAUAAGGUGUCACAGGAAAAGC CCAAGGAGCUGUUUGG
AC_000175.1_17191>AC_00 0181.1_22483*	AAAAGT TCATTTG AGTTTT	AC_0 0018 1.1_2 2483	AAAAGUUCAUUUGAGUUUUUCC AUAACAUGUACUGGAAAAAGCU GAACAAGCUUUUUGGC
AC_000181.1_22483	AAAGCT GAACAA GCTTTTT GGC	AC_0 0018 1.1_2 2483	AAAAGUUCAUUUGAGUUUUUCC AUAACAUGUACUGGAAAAAGCU GAACAAGCUUUUUGGC
AC_000181.1_22498>AC_00 0168.1_12045	AGGGGT GGGGG GCGGCG	AC_0 0018 1.1_2	CUGCACCCAGCCCCUCCAGAC CCAGCUAGGGGUGGGGGGCGG CG



		2498	
AC_000181.1_22498*	CTGCGC ACCCAG CCCCTCC	AC_0 0018 1.1_2 2498	CUGCGCACCCAGCCCCUCCAGAC CCAGCUAGGGGUGGGGGGGCGG CG
AC_000181.1_22545*	AAACCA AACAAA CTTTTTG	AC_0 0018 1.1_2 2545	GAAAAGUUCGUUUGGGUUUUUC CAUAAGAUCUUAUUGCAAAAAC CAAACAAACUUUUUG
AC_000165.1_9053>AC_000181.1_22545	GAAAAG TTCGTTT GGGTTTT T	AC_0 0018 1.1_2 2545	GAAAAGUUCGUUUGGGUUUUUC CAUAAGAUCUUAUUGCAAAAAC CAAACAAACUUUUUG
AC_000181.1_22568*	AAGGAC CCGGCC GTGGAG CCACTG C	AC_0 0018 1.1_2 2568	AAGGACCCGGCCGUGGAGCCAC UGCCUUCAUAGUCAAAAGACUAA GAGGGAGUCGUAGGGCCGGAGCG GUGGGAUCGUUGU
AC_000181.1_22568	TAGGGC GGAGCG GTGGGA TCGTTGT	AC_0 0018 1.1_2 2568	AAGGACCCGGCCGUGGAGCCAC UGCCUUCAUAGUCAAAAGACUAA GAGGGAGUCGUAGGGCCGGAGCG GUGGGAUCGUUGU
AC_000186.1_24945>AC_000181.1_22594>AC_000165.1_8950	AAATCT GAACAA GCTTTTT GGC	AC_0 0018 1.1_2 2594	CAAAACAAUCCUUUGGGAUUU UCCAUAAGAUGUAGUGGAAAA AUCUGAACAAGCUUUUUGGC
AC_000181.1_22594*	CAAAAC AATTCCT TTGGGAT	AC_0 0018 1.1_2	CAAAACAAUCCUUUGGGAUUU UCCAUAAGAUGUAGUGGAAAA AUCUGAACAAGCUUUUUGGC

	TTTT	2594	
AC_000181.1_22644	AGGGAG CGGGGT GTAGTG G	AC_0 0018 1.1_2 2644	GCUCGUGUGGCAGCCUGUGCAG AGGUGGCAGGGAGCGGGGUGUA GUGG
AC_000181.1_22644*	GCTCGT GTGGCA GCCTGT	AC_0 0018 1.1_2 2644	GCUCGUGUGGCAGCCUGUGCAG AGGUGGCAGGGAGCGGGGUGUA GUGG
AC_000181.1_22669	TGCGGG GAGTGC ACGGCC TGC	AC_0 0018 1.1_2 2669	UGCGGGGAGUGCACGGCCUGCC AGGUAAGGAAGACUGUGGGGC CUGCUCACCUGCCU
AC_000181.1_22669*	TGGGGC CTGCTCC ACCTGC CT	AC_0 0018 1.1_2 2669	UGCGGGGAGUGCACGGCCUGCC AGGUAAGGAAGACUGUGGGGC CUGCUCACCUGCCU
AC_000181.1_22697*	AAATCC AGAAGA ATTTTT TGG	AC_0 0018 1.1_2 2697	AAUAAGUUCGUUUGGGUUUUUC CAUAAGAUUGAUGGAAAAAUC CAGAAGAAUUUUUUUGG
AC_000170.1_13547>AC_00 0174.1_16244>AC_000165.1 _8867>AC_000181.1_22697	AATAAG TTCGTTT GGGTTTT T	AC_0 0018 1.1_2 2697	AAUAAGUUCGUUUGGGUUUUUC CAUAAGAUUGAUGGAAAAAUC CAGAAGAAUUUUUUUGG
AC_000182.1_22721*	ACCGGC GACCTC TGCGCA G	AC_0 0018 2.1_2 2721	ACCGGCGACCUCUGCGCAGGCGC AAGCUGCCGUGUGCGCAGGCGC GACGCUGGCUCU

AC_000182.1_22721	GCGCAG GCGCGA CGCTGG CTCT	AC_0 0018 2.1_2 2721	ACCGGCGACCUCUGCGCAGGCGC AAGCUGCCGUGUGCGCAGGCGC GACGCUGGCUCU
AC_000182.1_22742	GATGTG AAACCC AGGCC CGACA	AC_0 0018 2.1_2 2742	GAUGUGAAACCCAGGCCCGAC ACGCGCCGCCGCUCCGGGCUCGG UUGCGUCCU
AC_000182.1_22742*	TCCGGG CTCGGT GCGTCC T	AC_0 0018 2.1_2 2742	GAUGUGAAACCCAGGCCCGAC ACGCGCCGCCGCUCCGGGCUCGG UUGCGUCCU
AC_000182.1_22930	ATGGGG GAGGCT GGCAGT GCGG	AC_0 0018 2.1_2 2930	AUGGGGGAGGCUGGCAGUGCGG ACAAGACCCUCACCGGUCCCUGC UGCCUUUUAUGUCUCCCUCAGG C
AC_000182.1_22930*	CTGCTG CCTTTTA TGTCTCC CTCAGG C	AC_0 0018 2.1_2 2930	AUGGGGGAGGCUGGCAGUGCGG ACAAGACCCUCACCGGUCCCUGC UGCCUUUUAUGUCUCCCUCAGG C
AC_000182.1_22948	CGGGAA CGGGCG GTGGGC GGG	AC_0 0018 2.1_2 2948	CGGGAACGGGCGGUGGGCGGGG CUUGAACCCCGGAAACGGUGGG GGGUCCCAGGCCUGGCCUGGA CCCCUGGGCAGUGGG
AC_000182.1_22948*	GGCCCT GGACCC CTGGGC AGTGGG	AC_0 0018 2.1_2 2948	CGGGAACGGGCGGUGGGCGGGG CUUGAACCCCGGAAACGGUGGG GGGUCCCAGGCCUGGCCUGGA CCCCUGGGCAGUGGG

AC_000182.1_22956	CATGGA GGGCAG GGGGTT GGA	AC_0 0018 2.1_2 2956	CAUGGAGGGCAGGGGGUUGGAC GGAAGCCCUGUCCUCCACCCG
AC_000182.1_22956*	GGAAGC CCTGTCC TCCACC CG	AC_0 0018 2.1_2 2956	CAUGGAGGGCAGGGGGUUGGAC GGAAGCCCUGUCCUCCACCCG
AC_000182.1_22997	ATTCATG TGGTGT GGTCGT	AC_0 0018 2.1_2 2997	CCCCGCUCCACCGUGUCUCAUCC GAUUCAUGUGGUGUGGUCGU
AC_000182.1_22997*	CCCCGC TCCACC GTGTCTC A	AC_0 0018 2.1_2 2997	CCCCGCUCCACCGUGUCUCAUCC GAUUCAUGUGGUGUGGUCGU
AC_000182.1_23077	AGGGTT CGGGGG TGGGGT GGTG	AC_0 0018 2.1_2 3077	CGAUAGCCCGGCCCUCCCCGCCA CGUCCUCGAGGUGGCCCCGAG GGUUCGGGGGUGGGGUGGUG
AC_000182.1_23077*	CGATAG CCCGGC CCTCCCC GC	AC_0 0018 2.1_2 3077	CGAUAGCCCGGCCCUCCCCGCCA CGUCCUCGAGGUGGCCCCGAG GGUUCGGGGGUGGGGUGGUG
AC_000182.1_23160	CACTGG GTGGAC TAGAGG GAGTCA	AC_0 0018 2.1_2 3160	CACUGGGUGGACUAGAGGGAGU CAAGCCUGCUGAGGCAUUUGGA GAGAGGUCUCGAGGUUGGCCUC UAUCCAUGCAGGAG
AC_000182.1_23160*	TTGGCCT	AC_0	CACUGGGUGGACUAGAGGGAGU

	CTATCCA TGCAGG AG	0018 2.1_2 3160	CAAGCCUGCUGAGGCAUUUGGA GAGAGGUCUCGAGGUUGGCCUC UAUCCAUGCAGGAG
AC_000182.1_23218*	AAGTCT GCCTTCT CTCTCTC CCCA	AC_0 0018 2.1_2 3218	GUGAGUGAGAAGGCCCGCCCUG CCUGCCCCACACGAAGGUCACCC UGUGGCCACACUGGAGGCUAAG UCUGCCUUCUCUCUCUCCCCA
AC_000182.1_23218	GTGAGT GAGAAG GCCCGC CCT	AC_0 0018 2.1_2 3218	GUGAGUGAGAAGGCCCGCCCUG CCUGCCCCACACGAAGGUCACCC UGUGGCCACACUGGAGGCUAAG UCUGCCUUCUCUCUCUCCCCA
AC_000182.1_23233	AGGCTG GAGCGA ACAGGC AG	AC_0 0018 2.1_2 3233	GCCUGGGCCCAGUUGGGCUUUA UGAGGUCCCCAGGCUGGAGCGA ACAGGCAG
AC_000182.1_23233*	GCCTGG GCCCAG TTGGG	AC_0 0018 2.1_2 3233	GCCUGGGCCCAGUUGGGCUUUA UGAGGUCCCCAGGCUGGAGCGA ACAGGCAG
AC_000182.1_23243>AC_00 0182.1_23244	AGGGCC TGGAGG GTGTGG CTG	AC_0 0018 2.1_2 3243	GCCCCACCCCAGGACUCGGCCU GGUGGGCAGCAAGUUGUUUGCU GAGGUUCCCAGAUGACAUCCCA GGGCCUGGAGGGUGUGGCUG
AC_000182.1_23243*	GCCCCA CCCCCA GGACTC GGCCTG G	AC_0 0018 2.1_2 3243	GCCCCACCCCAGGACUCGGCCU GGUGGGCAGCAAGUUGUUUGCU GAGGUUCCCAGAUGACAUCCCA GGGCCUGGAGGGUGUGGCUG
AC_000182.1_23243>AC_00	AGGGCC	AC_0	AGGGCCUGGAGGGUGUGGCUG

0182.1_23244	TGGAGG GTGTGG CTG	0018 2.1_2 3244	CGCCUCCCCAAGGAGCGCCUUC UCUCAGGCCUGG
AC_000182.1_23244*	GCCTTCC TCTCAG GCCCTG G	AC_0 0018 2.1_2 3244	AGGGCCUGGAGGGUGUGGCUGC CGCCUCCCCAAGGAGCGCCUUC UCUCAGGCCUGG
AC_000182.1_23322	CCAGGT GGGTCG GGGGAG GATGTC A	AC_0 0018 2.1_2 3322	GUGUUAUUUCCUGACUUUAAG UGGAGACUGGGGAGAAGUAAAG UUUCCAGGUGGGUCGGGGGAGG AUGUCA
AC_000182.1_23322*	GTGTTAT TTCCTGA CTTTAA GTGGAG	AC_0 0018 2.1_2 3322	GUGUUAUUUCCUGACUUUAAG UGGAGACUGGGGAGAAGUAAAG UUUCCAGGUGGGUCGGGGGAGG AUGUCA
AC_000182.1_23333	ACCTTTG GGGTCG GGGGGA CACA	AC_0 0018 2.1_2 3333	ACCUUUGGGGUCGGGGGGACAC AACUCAGGCUAGAGCUGAUGUU CCCAGUUGUGGGGUGGGGGGUG AUCUUGCCAUCCCAGGGGCAU
AC_000182.1_23333*	TGATCTT GCCATCC CAGGGG CAT	AC_0 0018 2.1_2 3333	ACCUUUGGGGUCGGGGGGACAC AACUCAGGCUAGAGCUGAUGUU CCCAGUUGUGGGGUGGGGGGUG AUCUUGCCAUCCCAGGGGCAU
AC_000182.1_23376	CTAGTG GGATTG GGGATA AGC	AC_0 0018 2.1_2 3376	UUCAUUUCACUUCUCCACUGAA GUGUCACCUCCUCAGAGGAUAC UUCACUAGUGGGAUUGGGGAUA AGC
AC_000182.1_23376*	TTCATTT	AC_0	UUCAUUUCACUUCUCCACUGAA

	CACTTCT CCTACTG AAG	0018 2.1_2 3376	GUGUCACCUCCUCAGAGGAUAC UUCACUAGUGGGAUUGGGGAUA AGC
AC_000182.1_23455*	CCTTCTC CCATGTG TCTCCTC CGCC	AC_0 0018 2.1_2 3455	UUGGGAGACCAGGGGAAGACUC CACUAACUAGCCUUCUCCAUG UGUCUCCUCCGCC
AC_000182.1_23456>AC_00 0182.1_23455	TTGGGA GACCAG GGGAAG ACT	AC_0 0018 2.1_2 3455	UUGGGAGACCAGGGGAAGACUC CACUAACUAGCCUUCUCCAUG UGUCUCCUCCGCC
AC_000182.1_23456*	CCTTTCC ACTGAC CTCCAG GCA	AC_0 0018 2.1_2 3456	CCUUUCCACUGACCUCCAGGCAA GGGGCCUGCUGGUUGGGAGAC CAGGGGAAGACU
AC_000182.1_23456>AC_00 0182.1_23455	TTGGGA GACCAG GGGAAG ACT	AC_0 0018 2.1_2 3456	CCUUUCCACUGACCUCCAGGCAA GGGGCCUGCUGGUUGGGAGAC CAGGGGAAGACU
AC_000182.1_23470	CGCCATC GCCGCC GCCACG GCCT	AC_0 0018 2.1_2 3470	GCCGUGGUGGCUGCGCUGGGAG CCGAGAGCCGCGGCCGCCGCAU CGCCGCCGCCACGGCCU
AC_000182.1_23470*	GCCGTG GTGGCT GCGCTG GGAG	AC_0 0018 2.1_2 3470	GCCGUGGUGGCUGCGCUGGGAG CCGAGAGCCGCGGCCGCCGCAU CGCCGCCGCCACGGCCU
AC_000182.1_23474	AAAGGC TGGGTT	AC_0 0018	CUGUAGCCAGCCCGCCAGGGA AGAUCAUGCCACAGAGGCAACA

	GAGACG GC	2.1_2 3474	GAGGAAAGGCUGGGUUGAGACG GC
AC_000182.1_23474*	CTGTAG CCAGCC CGCCCA GGG	AC_0 0018 2.1_2 3474	CUGUAGCCAGCCCGCCAGGGA AGAUCAUGCCACAGAGGCAACA GAGGAAAGGCUGGGUUGAGACG GC
AC_000182.1_23507	CTCAGG ATGTAGT CACGGG G	AC_0 0018 2.1_2 3507	CUCAGGAUGUAGUCACGGGGUU UGGGCUUGAACUCUGGUCGCGG GGCAGAUCCUUGGCAAUCCGCU GAAGUC
AC_000182.1_23507*	CTTGGC AATCCG CTGAAG TC	AC_0 0018 2.1_2 3507	CUCAGGAUGUAGUCACGGGGUU UGGGCUUGAACUCUGGUCGCGG GGCAGAUCCUUGGCAAUCCGCU GAAGUC
AC_000182.1_23556*	CCAAAA GTTTGT CAAATT	AC_0 0018 2.1_2 3556	CCAAAAGUUUGUUCAAAUUUUC CUGU AACAGUAAAUCUGAACG AACUUUGUGGCA
AC_000182.1_23556	TCTGAA CGAACT TTGTGG CA	AC_0 0018 2.1_2 3556	CCAAAAGUUUGUUCAAAUUUUC CUGU AACAGUAAAUCUGAACG AACUUUGUGGCA
AC_000183.1_23683	AGAGGA GGGAGG GAGAGG	AC_0 0018 3.1_2 3683	UGUGACUCCCACAUACUCUUUC UGACAACUGCCCCAGAUGGGGA CAGUGUCACUUCAGAGAGGAGG GAGGGAGAGG
AC_000183.1_23683*	TGTGAC TCCCAC ATACTCT	AC_0 0018 3.1_2	UGUGACUCCCACAUACUCUUUC UGACAACUGCCCCAGAUGGGGA CAGUGUCACUUCAGAGAGGAGG



	TT	3683	GAGGGAGAGG
AC_000183.1_23692	AGGTGG GAAGTC TAGTAG GCA	AC_0 0018 3.1_2 3692	AGGUGGGAAGUCUAGUAGGCAG CCAAGACUCUACUCGAGAGAAA GCACUGAGAGCUGCCAUCUGGA UUCUCUGCCAUC
AC_000183.1_23692*	CCATCTG GATTCTC TGCCATC	AC_0 0018 3.1_2 3692	AGGUGGGAAGUCUAGUAGGCAG CCAAGACUCUACUCGAGAGAAA GCACUGAGAGCUGCCAUCUGGA UUCUCUGCCAUC
AC_000183.1_23749*	ACAGGC ACGGCC AGTTTG AGCAT	AC_0 0018 3.1_2 3749	ACAGGCACGGCCAGUUUGAGCA UUUUCACUGAAUUGCCAAACCA GUUGUGCCUGUAG
AC_000183.1_23749	CCAAAC CAGTTG TGCCTGT AG	AC_0 0018 3.1_2 3749	ACAGGCACGGCCAGUUUGAGCA UUUUCACUGAAUUGCCAAACCA GUUGUGCCUGUAG
AC_000183.1_23766>AC_00 0183.1_23765	CAGGGC TGGGGG TGCAGA GAGGGG C	AC_0 0018 3.1_2 3765	CAUUCACUGCCCUGAAGCAACA UCCAGACCUCAGGACAGAAACC CUGGGUGUCAGGGCUGGGGGUG CAGAGAGGGGC
AC_000183.1_23765*	CATTCAC TGCCCT GAAGCA ACATCC AGAC	AC_0 0018 3.1_2 3765	CAUUCACUGCCCUGAAGCAACA UCCAGACCUCAGGACAGAAACC CUGGGUGUCAGGGCUGGGGGUG CAGAGAGGGGC
AC_000183.1_23766>AC_00 0183.1_23765	CAGGGC TGGGGG	AC_0 0018	CAGGGCUGGGGGUGCAGAGAGG GGCUGCUGGAUUCUGGAGGCUC

	TGCAGA GAGGGG C	3.1_2 3766	UGGCUGUAGGAGCUGGAUGGGC CCGUGCACCCCCAGCCCAUGGC
AC_000183.1_23766*	CCCGTG CACCCC CAGCCC ATGGC	AC_0 0018 3.1_2 3766	CAGGGCUGGGGGUGCAGAGAGG GGCUGCUGGAUUCUGGAGGCUC UGGCUGUAGGAGCUGGAUGGGC CCGUGCACCCCCAGCCCAUGGC
AC_000183.1_23783	CCGAGC CTGACA GATCAC ACA	AC_0 0018 3.1_2 3783	UGUGACCUGCCAGGCACCGCCU UGUCAUCCCCUAAGGCCGAGCC UGACAGAUACACACA
AC_000183.1_23783*	TGTGAC CTGCCA GGCACC GCC	AC_0 0018 3.1_2 3783	UGUGACCUGCCAGGCACCGCCU UGUCAUCCCCUAAGGCCGAGCC UGACAGAUACACACA
AC_000183.1_23785*	GTGTGA CCTGCC AGGCAC CCCC	AC_0 0018 3.1_2 3785	GUGUGACCUGCCAGGCACCCCCU UGUCAUCCCCUAAGGUCGAGCC UGACAGAUACACACAU
AC_000183.1_23785	TCGAGC CTGACA GATCAC ACAT	AC_0 0018 3.1_2 3785	GUGUGACCUGCCAGGCACCCCCU UGUCAUCCCCUAAGGUCGAGCC UGACAGAUACACACAU
AC_000183.1_23787	TCGAGC CTGACA GATCAC ACA	AC_0 0018 3.1_2 3787	UGUGACCUGCCAGGCACCCCCU GUCAUCCCCUAAGGUCGAGCCU GACAGAUACACACA
AC_000183.1_23787*	TGTGAC CTGCCA	AC_0 0018	UGUGACCUGCCAGGCACCCCCU GUCAUCCCCUAAGGUCGAGCCU

	GGCACC CCC	3.1_2 3787	GACAGAUACACA
AC_000183.1_23807	AAGGAT GGACTT GGGCAG CA	AC_0 0018 3.1_2 3807	CUGCCCAAGUCCAUUGGUGAGG ACUGGAGAGCUGAAGGAUGGAC UUGGGCAGCA
AC_000183.1_23807*	CTGCCC AAGTCC ATTGGTG A	AC_0 0018 3.1_2 3807	CUGCCCAAGUCCAUUGGUGAGG ACUGGAGAGCUGAAGGAUGGAC UUGGGCAGCA
AC_000183.1_23809*	AAAAAG TTTGCTT GGGTTTT T	AC_0 0018 3.1_2 3809	AAAAAGUUUGCUUGGGUUUUUC UAGCUCACGGGGAAACCUGCAU GAACUUUUUGGA
AC_000183.1_23809	AAACCT GCATGA ACTTTTT GGA	AC_0 0018 3.1_2 3809	AAAAAGUUUGCUUGGGUUUUUC UAGCUCACGGGGAAACCUGCAU GAACUUUUUGGA
AC_000183.1_23944	CGGGAA GGGGAG GGAGGG ATGAAC	AC_0 0018 3.1_2 3944	UCUUCCUCCAACCUCUCCCACAG CCUGGGACAAAGCGGAUGGACC CCCUUGUCCUGCUGUUAAGUG CGGGAAGGGGAGGGAGGGAUGA AC
AC_000183.1_23944*	TCTTCCT CCAACC TCTCCA CA	AC_0 0018 3.1_2 3944	UCUUCCUCCAACCUCUCCCACAG CCUGGGACAAAGCGGAUGGACC CCCUUGUCCUGCUGUUAAGUG CGGGAAGGGGAGGGAGGGAUGA AC
AC_000183.1_24002*	CGCTGG	AC_0	CGCUGGCAGUGUUGGUGGCACU

	CAGTGT TGGTGG CACT	0018 3.1_2 4002	UGCGUGGGGGCGGUGGCACCAG CACUGGCGGUGGC
AC_000183.1_24002	TGGCAC CAGCAC TGGCGG TGGC	AC_0 0018 3.1_2 4002	CGCUGGCAGUGUUGGUGGCACU UGCGUGGGGGCGGUGGCACCAG CACUGGCGGUGGC
AC_000183.1_24016	ATACTGC CAGTCT CCTTCA GA	AC_0 0018 3.1_2 4016	AUUGAAGGCUAAUUAGCAGUAU AACUAAAUAGUAAUACUGCCAG UCUCCUUCAGA
AC_000183.1_24016*	ATTGAA GGCTAAT TAGCAG TAT	AC_0 0018 3.1_2 4016	AUUGAAGGCUAAUUAGCAGUAU AACUAAAUAGUAAUACUGCCAG UCUCCUUCAGA
AC_000183.1_24033	AAAAAT TTTGTTT GGGTTTT C	AC_0 0018 3.1_2 4033	AAAAAUUUUGUUUGGGUUUUUCU GUACAAUGACAUGGAAAUACCC GACUGAACUUUUUG
AC_000183.1_24033*	AATACCC GACTGA ACTTTTT G	AC_0 0018 3.1_2 4033	AAAAAUUUUGUUUGGGUUUUUCU GUACAAUGACAUGGAAAUACCC GACUGAACUUUUUG
AC_000171.1_14343>AC_00 0183.1_24077	AAAAAT TTCGTTC GGGTTTT T	AC_0 0018 3.1_2 4077	AAAAAUUCGUUCGGGUUUUUU CCGCCUGCUGUACAGGAAAAG GCCAAUGAACUUUUUGG
AC_000183.1_24077*	AGGCCA ATGAAC	AC_0 0018	AAAAAUUCGUUCGGGUUUUUU CCGCCUGCUGUACAGGAAAAG

	TTTTTGG	3.1_2 4077	GCCAAUGAACUUUUUGG
AC_000184.1_24135*	ACACTC CTCCTGC TGATGC AGG	AC_0 0018 4.1_2 4135	ACACUCCUCCUGCUGAUGCAGG UGCAGGGCCCUGGGGUAGGAGG UUGUGU
AC_000184.1_24135	TGGGGT AGGAGG TTGTGT	AC_0 0018 4.1_2 4135	ACACUCCUCCUGCUGAUGCAGG UGCAGGGCCCUGGGGUAGGAGG UUGUGU
AC_000184.1_24157	CGGAGA GGTGTC CGGGCA TC	AC_0 0018 4.1_2 4157	UGCACGGCAAACUGCCCCUUC GUGUUGACUUCAUUCACAGGGU GGAGUGCGGAGAGGUGUCCGGG CAUC
AC_000184.1_24157*	TGCACG GCAAAA CTGCCC CTTCGTG	AC_0 0018 4.1_2 4157	UGCACGGCAAACUGCCCCUUC GUGUUGACUUCAUUCACAGGGU GGAGUGCGGAGAGGUGUCCGGG CAUC
AC_000184.1_24185	GGAGGC AGAGCG CTCCTGC GGC	AC_0 0018 4.1_2 4185	UGCAGGAGGGCGCGGCCUGCCG GCUAGGCGGGAGGCAGAGCGCU CCUGCGGC
AC_000184.1_24185*	TGCAGG AGGGCG CGGCCT GCCG	AC_0 0018 4.1_2 4185	UGCAGGAGGGCGCGGCCUGCCG GCUAGGCGGGAGGCAGAGCGCU CCUGCGGC
AC_000184.1_24218	AAAAGT TCGCTC AGGTTTT	AC_0 0018 4.1_2	AAAAGUUCGCUCAGGUUUUCCU GUACCAGGUUAUGGAAAAGCCU GAGUGAAUAUUUUG

		4218	
AC_000184.1_24218*	AGCCTG AGTGAA TATTTTG	AC_0 0018 4.1_2 4218	AAAAGUUCGCUCAGGUUUUCCU GUACCAGGUUAUGGAAAAGCCU GAGUGAAUAUUUUG
AC_000184.1_24240*	AACCTG AACAAA TTTCTTG G	AC_0 0018 4.1_2 4240	AAUAAGUUCGUUCAGGUUUUCC CAAAGAUGUAACAGAAAAACC UGAACAAAUUUCUUGG
AC_000184.1_24240	AATAAG TTCGTTC AGGTTTT	AC_0 0018 4.1_2 4240	AAUAAGUUCGUUCAGGUUUUCC CAAAGAUGUAACAGAAAAACC UGAACAAAUUUCUUGG
AC_000184.1_24317*	CTCACA GGAAGT TTTTGGC CACT	AC_0 0018 4.1_2 4317	UGGCCAAAGAGUUCGUUUGGGU UUGUUGCAGCAUCUUAUGGAAA ACCUACAGGAAGUUUUUGGCC ACU
AC_000184.1_24317	TGGCCA AAGAGT TCGTTTG GGT	AC_0 0018 4.1_2 4317	UGGCCAAAGAGUUCGUUUGGGU UUGUUGCAGCAUCUUAUGGAAA ACCUACAGGAAGUUUUUGGCC ACU
AC_000184.1_24329	TGGCCA AAAAGT TCGTTTC GGT	AC_0 0018 4.1_2 4329	UGGCCAAAAGUUCGUUUCGGU UUUUCGUAAGAUCUUCAGAAA AGCUUGAGUGAACGUUUUGGCC ACC
AC_000184.1_24329*	TTGAGT GAACGT TTTGCC ACC	AC_0 0018 4.1_2 4329	UGGCCAAAAGUUCGUUUCGGU UUUUCGUAAGAUCUUCAGAAA AGCUUGAGUGAACGUUUUGGCC ACC

AC_000184.1_24333>AC_00 0187.1_26769	AAACCT GAATGA ACTTTTT GGCC	AC_0 0018 4.1_2 4333	AAAGAGUUCGUUGAGGUUUUCG GUACCAUCUUAGAGACAAACCU GAAUGAACUUUUUGGCC
AC_000184.1_24333*	AAAGAG TTCGTTG AGGTTTT	AC_0 0018 4.1_2 4333	AAAGAGUUCGUUGAGGUUUUCG GUACCAUCUUAGAGACAAACCU GAAUGAACUUUUUGGCC
AC_000162.1_5683*>AC_00 0184.1_24367*	ATCCAC ATTTGCG TATGCCG AGCC	AC_0 0018 4.1_2 4367	CUCGAGAAUAUCAGGGUGGACU CCUGGGGCUCGAUCCACAUUU GCGUAUGCCGAGCC
AC_000184.1_24367	CTCGAG AATATCA GGGTGG ACTCC	AC_0 0018 4.1_2 4367	CUCGAGAAUAUCAGGGUGGACU CCUGGGGCUCGAUCCACAUUU GCGUAUGCCGAGCC
AC_000185.1_24456*	TACGAC GGGCAA CAGAAA GGC	AC_0 0018 5.1_2 4456	UCUGCUGUGCAUUGUAGCUGGG UCACGCAAACUCAGCCAGCUAC GACGGGCAACAGAAAGGC
AC_000185.1_24456	TCTGCTG TGCATTG TAGCTG GGT	AC_0 0018 5.1_2 4456	UCUGCUGUGCAUUGUAGCUGGG UCACGCAAACUCAGCCAGCUAC GACGGGCAACAGAAAGGC
AC_000185.1_24509	AAGCAA AAGGAA CATTCTG CA	AC_0 0018 5.1_2 4509	CAGAAUAUUUCUUUAUGCUUU CUCUUGUUCUCCAGAGUAUAA AGCAAAAGGAACAUUCUGCA
AC_000185.1_24509*	CAGAAT	AC_0	CAGAAUAUUUCUUUAUGCUUU

	ATTTCTT TTATGCT TTC	0018 5.1_2 4509	CUCUUGUUCUCCCAGAGUAUAA AGCAAAAGGAACAUUCUGCA
AC_000185.1_24559*	TGCCAA GGGAGG GGATGC CAGGGC ATG	AC_0 0018 5.1_2 4559	UGCCAAGGGAGGGGAUGCCAGG GCAUGCCUGGUCCAGCAUAUAC UUGCCCUGCCCAUUCUUCUCCAG C
AC_000185.1_24559	TGCCCT GCCCAT CCTTTCC AGC	AC_0 0018 5.1_2 4559	UGCCAAGGGAGGGGAUGCCAGG GCAUGCCUGGUCCAGCAUAUAC UUGCCCUGCCCAUUCUUCUCCAG C
AC_000185.1_24576*	CGTCTCC AGCAGG CTGTCCT G	AC_0 0018 5.1_2 4576	GAUUCAGGGGGGCUGGGGAUGG CUGGGGGCACAAGAACCUCCGU CUCCAGCAGGCUGUCCUG
AC_000185.1_24576	GATTCA GGGGGG CTGGGG ATGGC	AC_0 0018 5.1_2 4576	GAUUCAGGGGGGCUGGGGAUGG CUGGGGGCACAAGAACCUCCGU CUCCAGCAGGCUGUCCUG
AC_000185.1_24578*	ATGTCTC ATTGGCC TCTGCA AAA	AC_0 0018 5.1_2 4578	CUGCAGAGGUAGAUGGAAUGUC UUCAUGGUAUCAUGUUGCUUGC AGAUGUCUCAUUGGCCUCUGCA AAA
AC_000185.1_24578	CTGCAG AGGTAG ATGGAAT GTCT	AC_0 0018 5.1_2 4578	CUGCAGAGGUAGAUGGAAUGUC UUCAUGGUAUCAUGUUGCUUGC AGAUGUCUCAUUGGCCUCUGCA AAA
AC_000185.1_24616*	AAACCC	AC_0	UAAAGUUCAUUCGGGUUUUUAU



	AGAGGA ACTTTTT	0018 5.1_2 4616	GUAGGAUCUUAGGGAAAAAACC CAGAGGAACUUUUU
AC_000185.1_24616>AC_00 0167.1_10076>AC_000178.1 _20579>AC_000178.1_20580	TAAAGT TCATTCT GGTTTTT	AC_0 0018 5.1_2 4616	UAAAGUUCAUUCGGGUUUUUAU GUAGGAUCUUAGGGAAAAAACC CAGAGGAACUUUUU
AC_000185.1_24688	AGGCCT CTGCAA CCAGGT GCGC	AC_0 0018 5.1_2 4688	AGGCCUCUGCAACCAGGUGCGC AUGCGCAGUCUCAGCACGGCCU GGCUGCAGGGGCUCCG
AC_000185.1_24688*	GGCCTG GCTGCA GGGGCT CCG	AC_0 0018 5.1_2 4688	AGGCCUCUGCAACCAGGUGCGC AUGCGCAGUCUCAGCACGGCCU GGCUGCAGGGGCUCCG
AC_000185.1_24694	GTGGAG CTGGGG AGAAGG GCA	AC_0 0018 5.1_2 4694	GUGGAGCUGGGGAGAAGGGCAG GCUCAGUGAGCCCGGGGCUGCG UCCCCACAGGGCUCAGGGGAGC AGUGGUCUAUCUUCCUGCCACU C
AC_000185.1_24694*	TCTATCT TCCTGCC ACTC	AC_0 0018 5.1_2 4694	GUGGAGCUGGGGAGAAGGGCAG GCUCAGUGAGCCCGGGGCUGCG UCCCCACAGGGCUCAGGGGAGC AGUGGUCUAUCUUCCUGCCACU C
AC_000185.1_24725*	CCCCGC GGGTGT TCGCCC ACCT	AC_0 0018 5.1_2 4725	UUCGGCGCCACCACCCUGCGGGU CGCGCUGUAAGAUCUUGCCCCG CGGGUGUUCGCCACCU

AC_000185.1_24725	TTCGGC GCCACC ACCCTG CGGGTC G	AC_0 0018 5.1_2 4725	UUCGGCGCCACCACCCUGCGGGU CGCGCUGUAAGAUCUUGCCCCG CGGGUGUUCGCCACCU
AC_000185.1_24755*	GCCGTT CCGCCT GGAGGA GCTCAC C	AC_0 0018 5.1_2 4755	UGGGAAGUCGGGGGGCAUUGUC AUCUCGCCGUUCCGCCUGGAGG AGCUCACC
AC_000185.1_24755	TGGGAA GTCGGG GGGCAT TGTC A	AC_0 0018 5.1_2 4755	UGGGAAGUCGGGGGGCAUUGUC AUCUCGCCGUUCCGCCUGGAGG AGCUCACC
AC_000185.1_24828	AGCCCT TCCCTTT CACTGG CC	AC_0 0018 5.1_2 4828	AGCCCUUCCCUUUCACUGGCCUG UAGCCAGCCCAGGUCUGGUGGG AAGGAAGGGACA
AC_000185.1_24828*	TCTGGT GGGAAG GAAGGG ACA	AC_0 0018 5.1_2 4828	AGCCCUUCCCUUUCACUGGCCUG UAGCCAGCCCAGGUCUGGUGGG AAGGAAGGGACA
AC_000185.1_24830*	AAAAGT TTGTTCA GGTTTCT	AC_0 0018 5.1_2 4830	AAAAGUUUGUUCAGGUUUCUGU AAGAUGGUGCAAACCCUGAAC GAACUUUUUGGCC
AC_000185.1_24830	AACCCT GAACGA ACTTTTT	AC_0 0018 5.1_2	AAAAGUUUGUUCAGGUUUCUGU AAGAUGGUGCAAACCCUGAAC GAACUUUUUGGCC

	GGCC	4830	
AC_000185.1_24831	CTGACA CTGGGT AACGTT GGAGT	AC_0 0018 5.1_2 4831	CUGACACUGGGU AACGUUGGAG UCUCCUGCCUCAGACCGUGGCCU GCCUUGUUGCCCAGUGUCAAGC U
AC_000185.1_24831*	TGCCTTG TTGCCC AGTGTC AAGCT	AC_0 0018 5.1_2 4831	CUGACACUGGGU AACGUUGGAG UCUCCUGCCUCAGACCGUGGCCU GCCUUGUUGCCCAGUGUCAAGC U
AC_000186.1_24944	CAGGGA CGTTCC GGAGCC TG	AC_0 0018 6.1_2 4944	CAGGGACGUUCCCCGGAGCCUGG GCUCUGUGCCAGGCACCAGGAG GCCCCUGAA
AC_000186.1_24944*	GGCACC AGGAGG CCCCTG AA	AC_0 0018 6.1_2 4944	CAGGGACGUUCCCCGGAGCCUGG GCUCUGUGCCAGGCACCAGGAG GCCCCUGAA
AC_000186.1_24945*	AAAAGG TTCGTTA GAGTTTT C	AC_0 0018 6.1_2 4945	AAAAGGUUCGUUAGAGUUUCC UACAAGACGGUACAGAAAAUCU GAACAAGCUUUUUGGC
AC_000186.1_24945>AC_00 0181.1_22594>AC_000165.1 _8950	AAATCT GAACAA GCTTTTT GGC	AC_0 0018 6.1_2 4945	AAAAGGUUCGUUAGAGUUUCC UACAAGACGGUACAGAAAAUCU GAACAAGCUUUUUGGC
AC_000186.1_24982	AGTGGT TAGGATT CGGCGC T	AC_0 0018 6.1_2 4982	AGUGGUUAGGAUUCGGCGCUUU CACUGCCAUGGCCUCGGUUCAG CCCCUGG

AC_000186.1_24982*	CCTCGG TTCAGC CCCTGG	AC_0 0018 6.1_2 4982	AGUGGUUAGGAUUCGGCGCUUU CACUGCCAUGGCCUCGGUUCAG CCCCUGG
AC_000163.1_6446>AC_000 186.1_25044	AAAAGT TCTTTCG GGTTTT	AC_0 0018 6.1_2 5044	AAAAGUUCUUUCGGGUUUUCCA CACCAUUUUAUGAAAUAUCUG AAUGCAUAUUUUG
AC_000186.1_25044*	AATCTG AATGCAT ATTTTG	AC_0 0018 6.1_2 5044	AAAAGUUCUUUCGGGUUUUCCA CACCAUUUUAUGAAAUAUCUG AAUGCAUAUUUUG
AC_000186.1_25050	CCAGGG ACTGGG AGTAAG GTAGG	AC_0 0018 6.1_2 5050	CCAGGGACUGGGAGUAAGGUAG GUCCAGCUUUUGUGACCUGCUC UCUCUGUCUCUUGUA
AC_000186.1_25050*	TGCTCTC TCTGTCT CTTGTA	AC_0 0018 6.1_2 5050	CCAGGGACUGGGAGUAAGGUAG GUCCAGCUUUUGUGACCUGCUC UCUCUGUCUCUUGUA
AC_000186.1_25247	CCGTGG GCTGCC CCCTCCC CAGC	AC_0 0018 6.1_2 5247	CUGGGGUUGGGGGGUGGGGGCC CACUGGCUCUGAGUGCUGCUGA CAGCCCGUGGGCUGCCCCUCCC CAGC
AC_000186.1_25247*	CTGGGG TTGGGG GGTGGG G	AC_0 0018 6.1_2 5247	CUGGGGUUGGGGGGUGGGGGCC CACUGGCUCUGAGUGCUGCUGA CAGCCCGUGGGCUGCCCCUCCC CAGC
AC_000186.1_25251*	GCGGGA	AC_0	GCGGGAGGGAGACAAAAGGAUA

	GGGAGA CAAAAG GATA	0018 6.1_2 5251	UGGUUGGCCAGAUGGUAUCCUG UGCUCUUUCUUCUGCAG
AC_000186.1_25251	TCCTGTG CTCTTTC TTCTGCA G	AC_0 0018 6.1_2 5251	GCGGGAGGGAGACAAAAGGAUA UGGUUGGCCAGAUGGUAUCCUG UGCUCUUUCUUCUGCAG
AC_000186.1_25267	TAGGGC TGGGGG TGGGCA GAGGAA A	AC_0 0018 6.1_2 5267	UCCUGGGCUAACUCUUGGGCUU CUGGCCCUUCACUAGCAGGUGU GGGAGCCUAGGGCUGGGGGUGG GCAGAGGAAA
AC_000186.1_25267*	TCCTGG GCTAAC TCTTGG GCTTCTG	AC_0 0018 6.1_2 5267	UCCUGGGCUAACUCUUGGGCUU CUGGCCCUUCACUAGCAGGUGU GGGAGCCUAGGGCUGGGGGUGG GCAGAGGAAA
AC_000186.1_25299*	CTGACC CCAAGC CCAGGA CG	AC_0 0018 6.1_2 5299	CUGACCCCAAGCCCAGGACGACC UCUGGACCUCCUGAGGAAGGGG UGUCGGGC
AC_000186.1_25299	TCCTGA GGAAGG GGTGTC GGGC	AC_0 0018 6.1_2 5299	CUGACCCCAAGCCCAGGACGACC UCUGGACCUCCUGAGGAAGGGG UGUCGGGC
AC_000186.1_25304	AAGGAG AGGATG AGGCCA	AC_0 0018 6.1_2 5304	AAGGAGAGGAUGAGGCCAUGCC AGAUGCUCUCUCU
AC_000186.1_25304*	GCCAGA	AC_0	AAGGAGAGGAUGAGGCCAUGCC

	TGCTCTC TCT	0018 6.1_2 5304	AGAUGCUCUCUCU
AC_000186.1_25309*	CCTGCAT CCCTGG AGGA	AC_0 0018 6.1_2 5309	CCUGCAUCCCUGGAGGAGGGGA AGGGGUCUUCAGGUGCUUGGAG GGAUUGGGGGGA
AC_000186.1_25309	CTTGGA GGGATT GGGGGG A	AC_0 0018 6.1_2 5309	CCUGCAUCCCUGGAGGAGGGGA AGGGGUCUUCAGGUGCUUGGAG GGAUUGGGGGGA
AC_000186.1_25369*	CAGAAG AATTTTT TGGCCA ACC	AC_0 0018 6.1_2 5369	UUGGCCAAAAAGUUCGUUCGGG GUUCCCAUCACACUAUAGGGAA AUCCCAGAAGAAUUUUUUGGCC AACC
AC_000186.1_25369	TTGGCC AAAAAG TTCGTTC GGG	AC_0 0018 6.1_2 5369	UUGGCCAAAAAGUUCGUUCGGG GUUCCCAUCACACUAUAGGGAA AUCCCAGAAGAAUUUUUUGGCC AACC
AC_000186.1_25616	AAGGGG CTGTAG GGAGAA TGGCA	AC_0 0018 6.1_2 5616	GCGUGAAGCCUUGGCGCUCUGG GUUCACCCAGAGGUGCUUCUGG GUGCCAAGGGGCUGUAGGGAGA AUGGCA
AC_000186.1_25616*	GCGTGA AGCCTT GGCGCT CTGGGT	AC_0 0018 6.1_2 5616	GCGUGAAGCCUUGGCGCUCUGG GUUCACCCAGAGGUGCUUCUGG GUGCCAAGGGGCUGUAGGGAGA AUGGCA
AC_000186.1_25625*	CCTCCG GCTGGG	AC_0 0018	GAGGGCGGGUGGGAGGCAGGCC UCCGGCUGGGCCCUCGC

	CCCTCG C	6.1_2 5625	
AC_000186.1_25626>AC_00 0186.1_25625	GAGGGC GGGTGG GAGGCA	AC_0 0018 6.1_2 5625	GAGGGCGGGUGGGAGGCAGGCC UCCGGCUGGGCCCUCGC
AC_000186.1_25626*	CCCCCG GGCCGC CCTGGA CCT	AC_0 0018 6.1_2 5626	CCCCCGGGCCGCCUGGACCUGC CCCCGGAGUCCUGGAGCCGGUG CAGGAGCCCUGGCAGGAGGGCG GGUGGGAGGCA
AC_000186.1_25626>AC_00 0186.1_25625	GAGGGC GGGTGG GAGGCA	AC_0 0018 6.1_2 5626	CCCCCGGGCCGCCUGGACCUGC CCCCGGAGUCCUGGAGCCGGUG CAGGAGCCCUGGCAGGAGGGCG GGUGGGAGGCA
AC_000186.1_25637*	AGCTCC CTGCTGT TCTACA GCCCCG GG	AC_0 0018 6.1_2 5637	CAAGGGGCUGUGUUGGGGGCAU CCGAUUGUGAGCCUGGUUUCUG GAGCUCCCUGCUGUUCUACAGC CCCGGG
AC_000186.1_25637	CAAGGG GCTGTG TTGGGG GCATC	AC_0 0018 6.1_2 5637	CAAGGGGCUGUGUUGGGGGCAU CCGAUUGUGAGCCUGGUUUCUG GAGCUCCCUGCUGUUCUACAGC CCCGGG
AC_000186.1_25648*	TGCCTG CTCTGA GGTCTC AGG	AC_0 0018 6.1_2 5648	UGCCUGCUCUGAGGUCUCAGGG GGCCCUGGACUGUGGGAGGGGG CGUGCA
AC_000186.1_25648	TGGA CT GTGGGA	AC_0 0018	UGCCUGCUCUGAGGUCUCAGGG GGCCCUGGACUGUGGGAGGGGG

	GGGGGC GTGCA	6.1_2 5648	CGUGCA
AC_000187.1_25691	AAAAAG TTTGCTT GGGTTTT C	AC_0 0018 7.1_2 5691	AAAAAGUUUGCUUGGGUUUUC CAUAAGAUGCUAUGAAAAAGCC CAGAUGAACUUUUUGGC
AC_000187.1_25691*	AAGCCC AGATGA ACTTTTT GGC	AC_0 0018 7.1_2 5691	AAAAAGUUUGCUUGGGUUUUC CAUAAGAUGCUAUGAAAAAGCC CAGAUGAACUUUUUGGC
AC_000187.1_25797*	AAAAAC CAAACG AACTTTT GGGC	AC_0 0018 7.1_2 5797	AAAAGUUCAUUUGGGUUUUUUG GCAAGAUGGUACAUA AAAAACC AAACGAACUUUUUGGC
AC_000187.1_25797	AAAAGT TCATTTG GGTTTTT T	AC_0 0018 7.1_2 5797	AAAAGUUCAUUUGGGUUUUUUG GCAAGAUGGUACAUA AAAAACC AAACGAACUUUUUGGC
AC_000187.1_25823>AC_00 0187.1_25824	CGAGGG GCCGGC GGCGGC GG	AC_0 0018 7.1_2 5823	GGAGGCGGCGGCCGUGUGAGGG GCGAGGCCCGAGGGGCCGGCGG CGGCGG
AC_000187.1_25823*	GGAGGC GGCGGC CGTGTG AGGGG	AC_0 0018 7.1_2 5823	GGAGGCGGCGGCCGUGUGAGGG GCGAGGCCCGAGGGGCCGGCGG CGGCGG
AC_000187.1_25823>AC_00 0187.1_25824	CGAGGG GCCGGC GGCGGC	AC_0 0018 7.1_2	CGAGGGGCCGGCGGCGGCGGCG GCGGCGGCGGCGGCGGCGGCGG CGGG



	GG	5824	
AC_000187.1_25824*	GGCGGC GGCGGC TGCGATA GCGGG	AC_0 0018 7.1_2 5824	CGAGGGGCGGCGGCGGCGGCG GCGGCGGCGGCGGCGGCGGCG CGGG
AC_000187.1_25878	CAGGCA GGGTGG GTGGGG G	AC_0 0018 7.1_2 5878	CAGGCAGGGUGGGUGGGGGGG GCGCCACCUCGCGUCAGGGGC
AC_000187.1_25878*	CCCACC TCCGCT GCAGGG GC	AC_0 0018 7.1_2 5878	CAGGCAGGGUGGGUGGGGGGG GCGCCACCUCGCGUCAGGGGC
AC_000187.1_25987*	CCTGGG TTGGCT GGCCGT TGT	AC_0 0018 7.1_2 5987	CCUGGGUUGGCUGGCCGUUGUG UCAGGGGGGAUCCAGAAGCUGG UGCUGACCUACUAGUGGGUGGG GUCGGGCC
AC_000187.1_25987	TACTAGT GGGTGG GGTCGG GCC	AC_0 0018 7.1_2 5987	CCUGGGUUGGCUGGCCGUUGUG UCAGGGGGGAUCCAGAAGCUGG UGCUGACCUACUAGUGGGUGGG GUCGGGCC
AC_000187.1_26186*	AAAAAA CCAAAC GATTTTT TTGG	AC_0 0018 7.1_2 6186	GAAAAGUUCGUUUGGGUUUUCU AUACCACAGUAAGAAAAAACC AAACGAUUUUUUUGG
AC_000187.1_26186	GAAAAG TTCGTTT GGGTTTT C	AC_0 0018 7.1_2 6186	GAAAAGUUCGUUUGGGUUUUCU AUACCACAGUAAGAAAAAACC AAACGAUUUUUUUGG

AC_000187.1_26202*	AATACTG AACAAA CTTTCTG GC	AC_0 0018 7.1_2 6202	CAAUAAGUUUGUUUGGGUUUUU CCAUAAGAUGUAAUGGAAAAUA CUGAACAAACUUUCUGGC
AC_000187.1_26202	CAATAA GTTTGT TGGGTTT TT	AC_0 0018 7.1_2 6202	CAAUAAGUUUGUUUGGGUUUUU CCAUAAGAUGUAAUGGAAAAUA CUGAACAAACUUUCUGGC
AC_000187.1_26232	CCTCTG GGGCTG TGGGGA TGTTTC	AC_0 0018 7.1_2 6232	CCUCUGGGGCUGUGGGGAUGUU CCACACCACAUCAUUCAGACCAC AUCCUCCUGUCA
AC_000187.1_26232*	TCATTCA GACCAC ATCCTCC CTGTCA	AC_0 0018 7.1_2 6232	CCUCUGGGGCUGUGGGGAUGUU CCACACCACAUCAUUCAGACCAC AUCCUCCUGUCA
AC_000187.1_26298	AGGAGG AGAGAG CTGCAA GTT	AC_0 0018 7.1_2 6298	AGGAGGAGAGAGCUGCAAGUUU UGGAAUUGUGUGUAACUUGGGG CUCGUAUCCCCCACC
AC_000187.1_26298*	CTTGGG GCTCGT ATCCCC ACC	AC_0 0018 7.1_2 6298	AGGAGGAGAGAGCUGCAAGUUU UGGAAUUGUGUGUAACUUGGGG CUCGUAUCCCCCACC
AC_000187.1_26338	TAATGGT TAGGATT CTGCAC T	AC_0 0018 7.1_2 6338	UAAUGGUUAGGAUUCUGCACUU UCACUGACAGGACUGGGGUUUG GUCCUGGUUGGGGAACUGAGA UGCCACAAUAGG
AC_000187.1_26338*	TGAGAT	AC_0	UAAUGGUUAGGAUUCUGCACUU

	GCCACA ATTAGG	0018 7.1_2 6338	UCACUGACAGGACUGGGGUUUG GUCCUGGUUGGGGAACUGAGA UGCCACAAUUAGG
AC_000187.1_27150*>AC_0 00187.1_26381*	AGTCTTA TCTAGA GTAGATA AG	AC_0 0018 7.1_2 6381	AGUCUUAUCUAGAGUAGAUAAAG ACUACUUAUCUACUUAUCUACU UAUCUACUCUAGAUAAAGACUUU
AC_000187.1_27150>AC_00 0187.1_26381	TATCTAC TCTAGAT AAGACT TT	AC_0 0018 7.1_2 6381	AGUCUUAUCUAGAGUAGAUAAAG ACUACUUAUCUACUUAUCUACU UAUCUACUCUAGAUAAAGACUUU
AC_000187.1_26405	CAGCAG AGGTGT GGGGAT GGTCGG	AC_0 0018 7.1_2 6405	CAGCAGAGGUGUGGGGAUGGUC GGCUCCCCCAGGGGAUGGUUGG UCAUAUUGGGAGACUUGCUCUG UUGUC
AC_000187.1_26405*	GGTCATA TTGGGA GACTTG CTCTGTT GTC	AC_0 0018 7.1_2 6405	CAGCAGAGGUGUGGGGAUGGUC GGCUCCCCCAGGGGAUGGUUGG UCAUAUUGGGAGACUUGCUCUG UUGUC
AC_000187.1_26456*	ATCTGCC CAGAGA TCAGAG GG	AC_0 0018 7.1_2 6456	CAGAGAUCAGAGGGUGAUGUCA GUACUCAGAAAUCAGAGCAUGG GUUCACUGCCGAGAGAUCAGAG GUGGGAUCUGCCCAGAGAUCAG AGGG
AC_000187.1_26456	CAGAGA TCAGAG GGTGAT GT	AC_0 0018 7.1_2 6456	CAGAGAUCAGAGGGUGAUGUCA GUACUCAGAAAUCAGAGCAUGG GUUCACUGCCGAGAGAUCAGAG GUGGGAUCUGCCCAGAGAUCAG

			AGGG
AC_000172.1_14892>AC_00 0187.1_26511	AAAAAG GTCGTTC AGGTTTT	AC_0 0018 7.1_2 6511	AAAAAGGUCGUUCAGGUUUUCC AUAAGCUAUUACAGAAAAACCC AAAUAAAUUUUUUUGG
AC_000187.1_26511*	AACCCA AATAAAT TTTTTTG G	AC_0 0018 7.1_2 6511	AAAAAGGUCGUUCAGGUUUUCC AUAAGCUAUUACAGAAAAACCC AAAUAAAUUUUUUUGG
AC_000187.1_26536*	GTGGCA CTCAGG ATCTTCC ATC	AC_0 0018 7.1_2 6536	GUGGCACUCAGGAUCUCCAUC UUCAUUGUGGCAUGAUGGAUCU UUAGUUGUGGCGU
AC_000187.1_26536	TGATGG ATCTTTA GTTGTG GCGT	AC_0 0018 7.1_2 6536	GUGGCACUCAGGAUCUCCAUC UUCAUUGUGGCAUGAUGGAUCU UUAGUUGUGGCGU
AC_000187.1_26549*	AAATCG TAGGGA ACCTTTT G	AC_0 0018 7.1_2 6549	AAGAAGUUCGUUUGGGUUUUUC CAUAUGAUGUUUCAGAAAAAUC GUAGGGAACCUUUUG
AC_000170.1_12856>AC_00 0176.1_19037>AC_000187.1 _26549>AC_000169.1_12603 >AC_000178.1_20340	AAGAAG TTCGTTT GGGTTTT T	AC_0 0018 7.1_2 6549	AAGAAGUUCGUUUGGGUUUUUC CAUAUGAUGUUUCAGAAAAAUC GUAGGGAACCUUUUG
AC_000187.1_26571	TGAGGT AGTAGG TTGCTG G	AC_0 0018 7.1_2 6571	UGAGGUAGUAGGUUGCUGGCAU UGUGUCAACAGUAUAACUCAA AGUUUCCAAAUGGCUUUUGCAG UUGCAGCUACUACAUUGGC

AC_000187.1_26571*	TGCAGC TACTACA TTGGC	AC_0 0018 7.1_2 6571	UGAGGUAGUAGGUUGCUGGCAU UGUGUCAACAGUAUAACUCAA AGUUUCCAAAUGGCUUUUGCAG UUGCAGCUACUACAUUGGC
AC_000187.1_26577	AAAACC TGAACA AACTTTT TG	AC_0 0018 7.1_2 6577	AAAAGGUUCAUUUGGGUUUUC UAUAAUAUUUAAAACCUGAAC AAACUUUUUG
AC_000187.1_26577*	AAAAGG TTCATTT GGGGTT TT	AC_0 0018 7.1_2 6577	AAAAGGUUCAUUUGGGUUUUC UAUAAUAUUUAAAACCUGAAC AAACUUUUUG
AC_000187.1_26597*	AAACTC AAAACG AACTTTT CG	AC_0 0018 7.1_2 6597	AAAGGUUCGUUCAGGUUUUUUC AUACUAUCUUUUGGGAAAACUC AAAACGAACUUUUCG
AC_000187.1_26597	AAAGGT TCGTTCA GGTTTTT	AC_0 0018 7.1_2 6597	AAAGGUUCGUUCAGGUUUUUUC AUACUAUCUUUUGGGAAAACUC AAAACGAACUUUUCG
AC_000187.1_26625	ATTGGGT CACAAA GAATCG GA	AC_0 0018 7.1_2 6625	CAUUACUGACUCAUUGGACUUG GGAUUGGGCGGACUCCGGGAAU UGGUGAUGGACAGGGAGGCCUG GCAUGCUGUGGUUCAUUGGGUC ACAAAGAAUCGGA
AC_000187.1_26625*	CATTACT GACTCA ATGGAC T	AC_0 0018 7.1_2 6625	CAUUACUGACUCAUUGGACUUG GGAUUGGGCGGACUCCGGGAAU UGGUGAUGGACAGGGAGGCCUG GCAUGCUGUGGUUCAUUGGGUC

			ACAAAGAAUCGGA
AC_000187.1_26701	AAAAAG TTCGTTT AGGTTTT T	AC_0 0018 7.1_2 6701	AAAAAGUUCGUUUAGGUUUUUC CAUACAUCUUACGGAAACCCG AACGAACUUUUUG
AC_000187.1_26701*	AAACCC GAACGA ACTTTTT G	AC_0 0018 7.1_2 6701	AAAAAGUUCGUUUAGGUUUUUC CAUACAUCUUACGGAAACCCG AACGAACUUUUUG
AC_000187.1_26769*	AAAAGT TCGTTCG TGTTTTT C	AC_0 0018 7.1_2 6769	AAAAGUUCGUUCGUGUUUUCCA UCACAUCUUGCAGGCAAACCCG AAUGAACUUUUUGGCC
AC_000184.1_24333>AC_00 0187.1_26769	AAACCT GAATGA ACTTTTT GGCC	AC_0 0018 7.1_2 6769	AAAAGUUCGUUCGUGUUUUCCA UCACAUCUUGCAGGCAAACCCG AAUGAACUUUUUGGCC
AC_000187.1_26838	CACTGG GAGGGA CTGGGA AAGGCA	AC_0 0018 7.1_2 6838	CCACCCGGCACUUCCCAGUCUGA GACACUGGGAGGGACUGGGAAA GGCA
AC_000187.1_26838*	CCACCC GGCACT TCCCAG TCTG	AC_0 0018 7.1_2 6838	CCACCCGGCACUUCCCAGUCUGA GACACUGGGAGGGACUGGGAAA GGCA
AC_000187.1_26877*	TCTGGG CCTTTTC CTCATTA CATAGA	AC_0 0018 7.1_2 6877	UGGACUGGGGAAGGGGUUUAGG GCUGGGUGUUAAAGGAAGAAUC UGGGCCUUUCCUCAUUACAUA GA

AC_000187.1_26877	TGGA GGGAA GGGTT TAGGC	AC_0 0018 7.1_2 6877	UGGACUGGGGAAGGGGUUUAGG GCUGGGUGUUAAAGGAAGAAUC UGGGCCUUUCCUCAUUACAUA GA
AC_000187.1_26911*	CTCAGC CAGTAG CACATC GGAG	AC_0 0018 7.1_2 6911	CUGUGUGAAGGGCAGGGCAGCU GUUGUCAGUGAUGACCGCUUCU CAGCCAGUAGCACAUCGGAG
AC_000187.1_26911	CTGTGT GAAGGG CAGGGC A	AC_0 0018 7.1_2 6911	CUGUGUGAAGGGCAGGGCAGCU GUUGUCAGUGAUGACCGCUUCU CAGCCAGUAGCACAUCGGAG
AC_000187.1_26956	CGGTGG ACAGAG AAGGGC AGGGGG	AC_0 0018 7.1_2 6956	UCCUCACAGGUGUCACGGUGCC AUAGUUCUUGUCCUGGUGAUGG GAGAGGAAGGGCGGUGGACAGA GAAGGGCAGGGGG
AC_000187.1_26956*	TCCTCAC AGGTGT CACGGT GCC	AC_0 0018 7.1_2 6956	UCCUCACAGGUGUCACGGUGCC AUAGUUCUUGUCCUGGUGAUGG GAGAGGAAGGGCGGUGGACAGA GAAGGGCAGGGGG
AC_000187.1_27002	CCTGGG TCAGGG TCGGGC AACT	AC_0 0018 7.1_2 7002	GAGCCCAUCAAGCUGAGUGAAA CACCUGGGUCAGGGUCGGGCAA CU
AC_000187.1_27002*	GAGCCC ATCAAG CTGAGT GA	AC_0 0018 7.1_2 7002	GAGCCCAUCAAGCUGAGUGAAA CACCUGGGUCAGGGUCGGGCAA CU
AC_000180.1_22101>AC_00	AAAGGT	AC_0	AAAGGUUCUUUUGGGUUUUUCA

0187.1_27021	TCTTTTG GGTTTTT	0018 7.1_2 7021	GUACAAUGUUACAGAAAAGCAC AAAAUAAUUUUUUG
AC_000187.1_27021*	AAGCAC AAAATA ATTTTTT G	AC_0 0018 7.1_2 7021	AAAGGUUCUUUUGGGUUUUUCA GUACAAUGUUACAGAAAAGCAC AAAAUAAUUUUUUG
AC_000187.1_27060	AAAACA CGAACA AACTTTT	AC_0 0018 7.1_2 7060	AGUUCGUUGGAGUUUCUCUGUU ACAUUGUACAGAAAAACACGAA CAAACUUUU
AC_000187.1_27060*	AGTTCG TTGGAG TTTCTC	AC_0 0018 7.1_2 7060	AGUUCGUUGGAGUUUCUCUGUU ACAUUGUACAGAAAAACACGAA CAAACUUUU
AC_000187.1_27081>AC_00 0175.1_17247	AAAAAG TTCGTTT GGGTTTT	AC_0 0018 7.1_2 7081	AAAAAGUUCGUUUGGGUUUUCC UGUAACAUCUUAUGGAAAAACU UGAAUGAAUCUUUUGG
AC_000187.1_27081*	AACTTG AATGAAT CTTTTGG	AC_0 0018 7.1_2 7081	AAAAAGUUCGUUUGGGUUUUCC UGUAACAUCUUAUGGAAAAACU UGAAUGAAUCUUUUGG
AC_000187.1_27106*	AAAAGT TCATTTG GGTTTTT A	AC_0 0018 7.1_2 7106	AAAAGUUCAUUUGGGUUUUUAU AUAACAUCUGAUGGAAAAGCCU GAACAAGCUUUUUGG
AC_000187.1_27106	AAAGCC TGAACA	AC_0 0018	AAAAGUUCAUUUGGGUUUUUAU AUAACAUCUGAUGGAAAAGCCU



	AGCTTTT TGG	7.1_2 7106	GAACAAGCUUUUUGG
AC_000187.1_27143*	CCAGTTT GCCAGA AAGTAG GGG	AC_0 0018 7.1_2 7143	UGUGGGGUUGGAGAUGGGACCA GAAGGUCCAGUUUGCCAGAAAG UAGGGG
AC_000187.1_27143	TGTGGG GTTGGA GATGGG AC	AC_0 0018 7.1_2 7143	UGUGGGGUUGGAGAUGGGACCA GAAGGUCCAGUUUGCCAGAAAG UAGGGG
AC_000187.1_27145*	CCCAGG TGAGTG ATGTCCC AGTT	AC_0 0018 7.1_2 7145	CUGGGGGGUCGGAGGGGGUGUG AUUGGCCACACACCCAGGUGA GUGAUGUCCAGUU
AC_000187.1_27145	CTGGGG GGTCGG AGGGGG TG	AC_0 0018 7.1_2 7145	CUGGGGGGUCGGAGGGGGUGUG AUUGGCCACACACCCAGGUGA GUGAUGUCCAGUU
AC_000187.1_27150*>AC_0 00187.1_26381*	AGTCTTA TCTAGA GTAGATA AG	AC_0 0018 7.1_2 7150	AGUCUUAUCUAGAGUAGAUAAAG UAGAUAAAGUAGAUAAAGUAGUCU UAUCUACUCUAGAUAAAGACUUU
AC_000187.1_27150>AC_00 0187.1_26381	TATCTAC TCTAGAT AAGACT TT	AC_0 0018 7.1_2 7150	AGUCUUAUCUAGAGUAGAUAAAG UAGAUAAAGUAGAUAAAGUAGUCU UAUCUACUCUAGAUAAAGACUUU
AC_000163.1_6568>NW_00 3097901.1_27167	CTTGTTG GGATACT GGGCGG	NW_ 0030 9790	UGCAAGCAGGCUCCCAUUUGCU AACCAAGACUUGUUGGGAUACU GGGCGGU

	T	1.1_2 7167	
AC_000163.1_6568*>NW_0 03097901.1_27167*	TGCAAG CAGGCT CCCATT GCT	NW_ 0030 9790 1.1_2 7167	UGCAAGCAGGCUCCCAUUUGCU AACCAAGACUUGUUGGGAUACU GGGCGGU
NW_003099614.1_27214>A C_000171.1_14154	CCCTGG GGCTGT GGAAGG AGGC	NW_ 0030 9961 4.1_2 7214	CCCUGGGGCUGUGGAAGGAGGC UGUGGGGGGAGGGGCACCUUGG GCCACAGGUCAACGGGGCG
NW_003099614.1_27214*	CTTGGG CCACAG GTCAAC GGGGCG	NW_ 0030 9961 4.1_2 7214	CCCUGGGGCUGUGGAAGGAGGC UGUGGGGGGAGGGGCACCUUGG GCCACAGGUCAACGGGGCG
NW_003099755.1_27230*	ATCCCGC TTTGCAT ATGCCG AGCC	NW_ 0030 9975 5.1_2 7230	CUCGAGAAUAUGCGGGUGGACU CCUGAGGCUCGAUCCCGCUUUG CAUAUGCCGAGCC
NW_003099755.1_27230>A C_000162.1_5683	CTCGAG AATATGC GGGTGG ACTCC	NW_ 0030 9975 5.1_2 7230	CUCGAGAAUAUGCGGGUGGACU CCUGAGGCUCGAUCCCGCUUUG CAUAUGCCGAGCC
NW_003100065.1_27249*	CCTGGT GCTTTG	NW_ 0031	CCUGGUGCUUUGGGGAGCAGGU ACAGCCUGUGAGGGUGAGCAGG

	GGGAGC AGG	0006 5.1_2 7249	GGCUGGGAGGACAGGGGGUGUU CCUGGUGUUUGGGGUAGAAGGC A
NW_003100065.1_27249	TGGTGT TGGGGT AGAAGG CA	NW_ 0031 0006 5.1_2 7249	CCUGGUGCUUUGGGGAGCAGGU ACAGCCUGUGAGGGUGAGCAGG GGCUGGGAGGACAGGGGGUGUU CCUGGUGUUUGGGGUAGAAGGC A
NW_003100510.1_27294	CCTGGG GCTGTG GAAGGA GGC	NW_ 0031 0051 0.1_2 7294	CCUGGGGCUGUGGAAGGAGGCU GUGGGGGGAGGGGCACCUUGGG CCACAGGUCAACGGGGC
NW_003100510.1_27294*	CTTGGG CCACAG GTCAAC GGGGC	NW_ 0031 0051 0.1_2 7294	CCUGGGGCUGUGGAAGGAGGCU GUGGGGGGAGGGGCACCUUGGG CCACAGGUCAACGGGGC
NW_003100865.1_27349*	AGCCCC CTCAAA GCCTTG CA	NW_ 0031 0086 5.1_2 7349	CAGGGCUGGAGGGGGCGGGGGG ACGAGGAUUGGGGCAGAAGAAC CUGCCCAGCUCAGAGCCCCUCA AAGCCUUGCA
NW_003100865.1_27349	CAGGGC TGGAGG GGGCGG G	NW_ 0031 0086 5.1_2 7349	CAGGGCUGGAGGGGGCGGGGGG ACGAGGAUUGGGGCAGAAGAAC CUGCCCAGCUCAGAGCCCCUCA AAGCCUUGCA

S4 mRNA expression

GeneSymbol	ProbeName	p	FC (abs)	Regulat ion
3-Mar	A_73_P345351	0.0132 92	2.4818 78	up
3-Mar	A_73_109998	7.45E- 04	3.9689 05	up
3-Mar	A_73_P043066	0.0174	2.5533	up

		9	62	
AAAS	A_73_103036	0.0394 14	2.3548 15	up
AAAS	A_73_P262341	0.0024 29	2.5683 87	up
AATF	A_73_P128161	0.0161 99	2.0814 65	up
AATF	A_73_107397	0.0209 67	2.2322 47	up
ABCA6	A_73_114811	0.0170 37	3.8235 45	up
ABCA6	A_73_P066641	0.0251 22	3.9345 59	up
ABHD18	A_73_115111	0.0253 64	2.6006 8	up
ABHD2	A_73_P251281	0.0304 1	5.7893 18	up
ABHD2	A_73_P030971	0.0156 87	5.7859 8	up
ABHD2	A_73_P433426	0.0349 54	5.3406 61	up
ABL1	A_73_P332241	0.0046 07	2.4559 08	up
ABL2	A_73_P032451	0.0370 06	2.2221 93	up
ACKR2	A_73_115455	0.0373 8	5.4628 13	up
ACKR2	A_73_P168007	0.0214 48	3.6557 28	up

ADA	A_73_P379406	0.0435 88	2.8217 55	up
ADA	A_73_102071	0.0476 5	2.9527 21	up
ADAM17	A_73_107097	0.0272 75	2.2762 26	up
ADAM19	A_73_P039386	0.0446 83	10.700 77	up
ADAM19	A_73_P254216	0.0424 79	6.9660 72	up
ADAMTS9	A_73_P374151	0.0443 07	4.8507 48	up
ADAMTSL4	A_73_P032981	0.0095 81	2.1839 82	up
ADAMTSL4	A_73_P313531	0.0188 71	2.2961 73	up
ADAMTSL4	A_73_P395581	0.0024 88	2.2249 51	up
ADM	A_73_P101696	0.0289 36	33.258 04	up
ADM	A_73_P032436	0.0238 58	22.445 45	up
AGFG1	A_73_P032131	0.0423 79	2.1012 88	up
AHSA2	A_73_P282166	0.0391 46	4.3725 57	up
AHSA2	A_73_P044131	0.0218 81	4.3829 08	up
AK4	A_73_P204837	0.0240	3.2024	up

		35	15	
AK4	A_73_P112941	0.0194 57	9.6162 8	up
AK4	A_73_P041501	0.0126 07	7.9561 04	up
ALDOA	A_73_100160	0.0099 52	2.2371 99	up
ALKBH1	A_73_P267181	0.0086 22	2.0814 08	up
ALPL	A_73_121258	0.0241 32	2.2781 89	up
ANKRD13A	A_73_P113636	0.0449 96	2.0302 2	up
ANKRD9	A_73_P433601	0.0043 53	3.2603 19	up
ANKRD9	A_73_P045426	0.0129 16	2.6741 45	up
ANPEP	A_73_P109196	0.0281 9	3.5294 86	up
ANPEP	A_73_105538	0.0199 25	3.3371 2	up
ANPEP	A_73_P068946	0.0331 62	2.1176 53	up
ANPEP	A_73_P068941	0.0151 53	3.4862 77	up
APPL2	A_73_P255386	0.0443 31	2.1228 39	up
AQP9	A_73_P080031	0.0135 18	18.507 62	up

AQP9	A_73_113890	0.0362 32	22.399 02	up
ARHGEF40	A_73_P132526	0.0430 57	2.0117 65	up
ARID3B	A_73_P129969	0.0446 54	2.3033 12	up
ARID5B	A_73_101930	0.0123 62	2.9117 53	up
ARL14EPL	A_73_P033031	0.0238 05	9.3948 72	up
ARPC2	A_73_P459401	0.0275 88	2.2067 19	up
ARPC2	A_73_P407816	0.0338 97	2.2545 11	up
ARPC5	A_73_P232147	0.0453 44	2.1041 18	up
ARSJ	A_73_104418	0.0348	5.9397 7	up
ASAP1	A_73_P039936	0.0479 65	2.1740 13	up
ASB9	A_73_P078731	0.0115 51	4.1018 08	up
ATG16L2	A_73_P076011	0.0242 46	2.8100 8	up
ATP13A3	A_73_P130811	0.0097 85	3.0267 97	up
ATP13A3	A_73_P096326	0.0037 3	3.1936 97	up
ATP2A2	A_73_P254441	0.0114	2.5490	up



		46	87	
ATP2A2	A_73_106338	0.0229 57	2.1721 54	up
ATP2A2	A_73_P070846	0.0139 46	2.4220 71	up
ATP2B4	A_73_P443406	0.0361 93	2.5393 68	up
ATP2B4	A_73_P071476	0.0240 56	3.0441 5	up
AVPR1A	A_73_101348	0.0200 34	2.6992 48	up
AXIN2	A_73_P118351	0.0483 86	3.6946 17	up
B3GNT5	A_73_P220572	0.0204 83	2.3475 9	up
BACE2	A_73_116898	0.0165 8	3.8808 67	up
BACE2	A_73_P097011	0.0217 51	3.9817 92	up
BAG3	A_73_104415	0.0026 21	2.9340 39	up
BAG3	A_73_P257756	6.81E- 04	3.6057 08	up
BAIAP2	A_73_107901	0.0311 07	2.1975 15	up
BAZ1A	A_73_P420171	0.0395 63	2.3994 17	up
BCL2L15	A_73_117641	0.0167 82	3.5331 95	up

BCL2L2	A_73_P100556	0.0372 7	2.3584 13	up
BCL6	A_73_P296401	0.0330 22	2.0603 61	up
BCL6	A_73_P096396	0.0246 24	2.2396 64	up
BDKRB2	A_73_113813	0.0032 52	3.3716 03	up
BDNF	A_73_101935	0.0260 21	14.930 16	up
BFSP1	A_73_103734	0.0497 56	6.2767 23	up
BMPR1B	A_73_P036031	0.0489 42	5.0615 19	up
BORCS8	A_73_P040796	0.0165 03	2.0458 53	up
BST1	A_73_112915	0.0045 86	9.9326 58	up
C1GALT1	A_73_P048261	0.0049 26	2.0480 8	up
C1QTNF6	A_73_P052301	0.0014 6	2.6247 98	up
C22H3orf62	A_73_P403186	0.0454 7	2.8451 46	up
C22H3orf62	A_73_110929	0.0151 42	2.1062 27	up
C29H11orf24	A_73_P432086	0.0042 89	2.4256 31	up
C29H11orf24	A_73_107187	0.0067	2.4678	up

		8	47	
C5AR1	A_73_P109881	0.0264 73	6.9548 11	up
C5H12orf75	A_73_111088	0.0463 01	12.125 82	up
C5H12orf75	A_73_P281941	0.0374 68	12.044 62	up
C5H12orf75	A_73_P123746	0.0463 52	12.773 94	up
CACNA1A	A_73_P102236	0.0210 66	2.1963 02	up
CAMK2N2	A_73_P044801	0.0015 28	3.1023 84	up
CAP1	A_73_P415501	0.0193 75	2.2032 36	up
CAP2	A_73_112422	0.0249 79	3.5183 87	up
CASK	A_73_P039556	0.0357 47	2.0668 59	up
CASQ1	A_73_P050046	0.0267 6	9.2055 4	up
CATHL1	A_73_P063651	0.0462 02	26.978 3	up
CATHL1	A_73_120669	0.0499 76	16.010 31	up
CATHL2	A_73_P423416	0.0303 76	14.981	up
CATHL2	A_73_P063676	0.0119 83	11.766 61	up

CATHL2	A_73_120001	0.0078 6	5.4377 21	up
CATHL4	A_73_P045551	0.0394 04	19.445 16	up
CATHL6	A_73_116963	0.0425 45	3.0268 49	up
CATHL6	A_73_P112816	0.0037 56	7.3935 36	up
CBFB	A_73_P067131	0.0077	2.2464 23	up
CBL	A_73_P075161	0.0010 03	3.1987 94	up
CBLN3	A_73_120833	0.0338 17	2.0389 66	up
CCDC151	A_73_118399	0.0180 54	6.8883 49	up
CCDC36	A_73_P258421	0.0343 36	5.4890 79	up
CCDC58	A_73_P409600	0.0320 77	2.2750 94	up
CCDC8	A_73_P047111	0.0123 29	2.2522 78	up
CCL3	A_73_119009	0.0259 62	2.5981 73	up
CCM2	A_73_P119736	0.0323 91	2.0626 33	up
CCM2	A_73_P293386	0.0464 96	2.1206 95	up
CD14	A_73_P108626	0.0131	2.0835	up

		59	74	
CD14	A_73_116002	9.77E-04	2.316778	up
CD14	A_73_105177	0.002142	2.372819	up
CD163	A_73_P474123	0.009851	8.655985	up
CD276	A_73_P079041	0.028939	2.099911	up
CD55	A_73_P056961	0.0372	18.76826	up
CD55	A_73_116775	0.037095	14.484	up
CD68	A_73_P399391	0.044138	4.813178	up
CD86	A_73_P041326	0.041921	2.731345	up
CD86	A_73_P318161	0.049728	2.960269	up
CD86	A_73_118621	0.047716	3.197578	up
CDA	A_73_110580	0.048316	23.6636	up
CDKL4	A_73_112773	0.010938	2.816854	up
CDKN1A	A_73_P100681	0.03202	2.141522	up
CDR2L	A_73_115860	0.04545	4.189165	up

CDR2L	A_73_P066571	0.0349 67	4.6429 86	up
CDV3	A_73_P374466	0.0080 15	2.2217	up
CELA3B	A_73_115832	0.0027 15	14.066 4	up
CEP104	A_73_P072046	0.0127 91	2.6661 43	up
CEP104	A_73_P169987	0.0370 92	2.3865 79	up
CEP68	A_73_108107	0.0093 65	2.0241 96	up
CEP76	A_73_P064351	0.0384 41	2.2706 17	up
CEP76	A_73_117274	0.0487 21	2.4712 53	up
CEP83	A_73_P090051	0.0182 7	2.0298 4	up
CERS6	A_73_P094406	0.0454 29	6.9797 78	up
CFAP161	A_73_P358871	0.0461 09	3.1691 34	up
CFAP45	A_73_112438	0.0224 05	2.9259 72	up
CFB	A_73_118840	0.0343 61	4.3095 47	up
CFB	A_73_P252986	0.0414 05	5.8415 66	up
CFB	A_73_P270496	0.0423	6.1872	up

		36	21	
CFL1	A_73_P340241	0.0311 72	2.2029 97	up
CFL1	A_73_P112561	0.0422 3	2.3057 08	up
CFL1	A_73_P347206	0.0188 09	2.1645 73	up
CFP	A_73_118817	0.0223 46	4.1490 21	up
CFP	A_73_P346756	0.0366 62	6.4522 37	up
CHST3	A_73_107503	0.0128 78	2.8340 79	up
CHSY1	A_73_P068836	0.0284 83	2.2196 95	up
CHSY1	A_73_P400486	0.0278 09	2.2845 56	up
CHSY3	A_73_100764	0.0263	2.6940 32	up
CHSY3	A_73_P084656	0.0083 11	3.4919	up
CIART	A_73_P092516	0.0026 8	4.1189 72	up
CKAP4	A_73_115781	0.0251 25	2.6888 19	up
CLDN15	A_73_P260556	0.0395 07	2.5504 1	up
CLDN15	A_73_113383	0.0463 27	2.4521 23	up

CLEC4D	A_73_102072	0.0410 46	4.9761 06	up
CLEC4G	A_73_106043	0.0400 85	22.413 26	up
CLIP3	A_73_P351896	0.0165 08	2.6457 06	up
CLMP	A_73_P034226	0.0239 28	4.8763 48	up
COL18A1	A_73_P416172	0.0372 38	2.5043 29	up
COL4A1	A_73_P136431	0.0327 38	2.3655 51	up
COL4A1	A_73_P108816	0.0358 52	2.7066 29	up
COL4A1	A_73_P077601	0.0031 89	2.2021 59	up
COL4A1	A_73_P077596	0.0420 38	2.2963 26	up
COL4A2	A_73_P077606	0.0325 95	2.2670 84	up
COL4A2	A_73_116810	0.0455 45	2.3252 85	up
COL6A3	A_73_P093911	0.0381 61	3.1094 26	up
COL6A3	A_73_P193172	0.0068 76	3.1042 66	up
CORO1C	A_73_P034811	0.0162 26	2.1659 54	up
CORO1C	A_73_P424761	0.0094	2.6209	up



		57	36	
CORO1C	A_73_P405106	0.0107	2.6492	up
		51	27	
CORO1C	A_73_P452006	0.0222	2.7829	up
		9	7	
COTL1	A_73_106637	0.0436	3.2473	up
		8	9	
COX6B2	A_73_P037451	0.0290	2.8370	up
		46	2	
CPM	A_73_P405146	0.0052	7.3804	up
		22	83	
CPM	A_73_P051886	0.0141	5.2812	up
		19	83	
CPM	A_73_P430496	0.0127	6.0680	up
		13	98	
CPN1	A_73_P053371	0.0148	6.6772	up
		02	43	
CRYGS	A_73_104089	0.0018	3.4509	up
		1	64	
CSF3	A_73_101022	0.0013	18.079	up
		91	69	
CSF3R	A_73_P093746	0.0461	30.146	up
		07	06	
CTHRC1	A_73_P150691	0.0205	326.35	up
		16	54	
CTHRC1	A_73_107090	0.0218	302.31	up
		99	91	
CTLA4	A_73_104324	0.0090	8.2114	up
		4	2	

CXCR2	A_73_P040406	0.0139 59	8.0922 91	up
CYBB	A_73_P100936	0.0419 46	2.0413 36	up
CYP3A4	A_73_P111946	0.0475 21	4.4536 28	up
CYP3A5	A_73_P053796	0.0073 95	2.5701 71	up
CYP3A5	A_73_P036041	0.0424 46	3.5045 64	up
DACT2	A_73_P081891	0.0324 69	21.202 47	up
DAP3	A_73_P034416	0.0285 28	2.0943 29	up
DCAF10	A_73_P086466	0.0309 71	2.1132 67	up
DCBLD2	A_73_P096006	0.0113 26	2.9972 79	up
DCSTAMP	A_73_109310	0.0086 19	5.0870 76	up
DCUN1D3	A_73_P040986	0.0266 47	2.0194 49	up
DEFB13	A_73_P059556	0.0466 98	10.388 32	up
DEFB7	A_73_P041156	0.0499 88	13.215 17	up
DENND2A	A_73_112272	0.0331 8	2.7394 3	up
DENND5B	A_73_P486733	0.0181	3.2119	up

		77	73	
DERL1	A_73_P106191	0.0384 61	2.0188 37	up
DERL1	A_73_P402561	0.0306 03	2.1379 61	up
DERL1	A_73_P319256	0.0224 96	2.2378 42	up
DIP2B	A_73_P090261	0.0344 87	2.0691 55	up
DIXDC1	A_73_100620	0.0080 68	3.1467 15	up
DLAT	A_73_105389	0.0313 51	2.2767 03	up
DNAJA4	A_73_P113431	0.0136 64	4.6496 85	up
DNAJA4	A_73_P265641	0.0083 46	5.0173 55	up
DNAJA4	A_73_P032841	0.0086 06	4.7624 51	up
DNAJA4	A_73_P313606	0.0054 46	4.6261 74	up
DNAJB1	A_73_P262981	0.0090 49	2.5376 76	up
DNAJB11	A_73_107584	0.0295 34	2.6614 97	up
DNAJB11	A_73_P510503	0.0248 78	2.6055 11	up
DNAJB4	A_73_P046961	0.0381 55	3.1570 34	up

DNAJC5	A_73_102206	0.0171 18	2.0342 71	up
DNM3	A_73_113642	0.0241 51	2.4058 85	up
DOK3	A_73_107977	0.0288 6	2.6199 35	up
DPP3	A_73_P292306	0.0391 52	2.3355 87	up
ECE1	A_73_P030306	0.0158 76	2.0233 6	up
ECE2	A_73_P104866	0.0292 08	2.2979 34	up
ECM1	A_73_P414831	0.0374 17	15.441 6	up
ECM1	A_73_P044636	0.0335 02	21.539 18	up
EDEM1	A_73_111780	0.0174 99	2.5165 64	up
EDEM1	A_73_P398021	0.0021 58	2.4507 32	up
EIF1B	A_73_102295	0.0191 97	2.0484 23	up
EIF5A	A_73_P038751	0.0276 55	2.2080 99	up
EIF5A2	A_73_116687	0.0482 58	2.8191 78	up
ELF4	A_73_P077731	0.0275 17	2.2755 53	up
ELL	A_73_P083716	0.0328	2.1821	up

		49	7	
ELMO2	A_73_P327746	0.0258	2.4728	up
		48	71	
EMILIN2	A_73_110165	0.0452	3.6969	up
		03	84	
EMP1	A_73_P055206	0.0289	2.9572	up
		59	36	
ENPP2	A_73_P401446	0.0244	3.2067	up
		04	04	
ENPP2	A_73_P033681	0.0389	3.1088	up
		38	79	
ENPP2	A_73_P206207	0.0095	3.4269	up
		1	44	
ENTPD5	A_73_P483523	0.0276	2.6599	up
		78	25	
ENTPD5	A_73_P080541	0.0045	2.2133	up
		1	31	
EPAS1	A_73_P033606	0.0437	5.3114	up
		41	55	
EPAS1	A_73_P106381	0.0250	3.7372	up
		66	86	
ERO1A	A_73_P434341	0.0190	2.1308	up
		37	74	
ERO1A	A_73_109214	0.0393	2.0856	up
		49	05	
ERO1B	A_73_P059076	0.0152	2.0295	up
		96	77	
ERP27	A_73_P251646	0.0334	2.1625	up
		54	48	

EXOC3L1	A_73_P041001	0.0376 1	3.1413 31	up
F13A1	A_73_101063	0.0119 49	6.8076 17	up
F13A1	A_73_113303	0.0296 14	7.8191 48	up
F13A1	A_73_P126951	0.0201 26	9.2489 83	up
F13A1	A_73_P062981	0.0180 35	8.0512 42	up
F13A1	A_73_P311426	0.0226 78	8.0288 94	up
F5	A_73_P030181	0.0435 08	4.2195 99	up
FADS2	A_73_110505	0.0220 18	12.173 21	up
FAM109B	A_73_P045701	0.0279 22	3.4824 42	up
FAM49A	A_73_121229	0.0281 06	2.5655 82	up
FAM57B	A_73_111492	0.0301 75	2.3836 44	up
FCER1G	A_73_111866	0.0446 44	4.3938 88	up
FCMR	A_73_119293	0.0115 77	2.1548 41	up
FCRL1	A_73_118216	0.0371 76	2.1999 17	up
FEM1C	A_73_P293591	0.0197	2.4432	up

		84	35	
FGD5	A_73_106142	0.0342 08	2.1280 46	up
FKBP14	A_73_115988	0.0328 79	3.9565 63	up
FKBP14	A_73_P088696	2.71E- 04	2.1478 99	up
FNBP1	A_73_P272271	0.0173 7	2.0779 1	up
FOSL1	A_73_P061596	0.0264 57	12.640 59	up
FOXP1	A_73_P388956	0.0135 71	2.0564 21	up
FSTL1	A_73_P096186	0.0405 23	6.4511 15	up
FSTL3	A_73_P329431	0.0471 59	5.3825 87	up
FUT11	A_73_108210	0.0304 61	4.2085 56	up
FUT11	A_73_P059281	0.0332 75	3.0230 91	up
FZD2	A_73_121084	0.0311 86	2.3131 56	up
GAPDH	A_73_P195967	0.0393 46	2.9650 04	up
GAPDH	A_73_P089951	0.0359 39	2.8816 47	up
GAPDH	A_73_100172	0.0285 57	2.8048	up

GAPDH	A_73_P082516	0.0490 94	2.7774 02	up
GAPDH	A_73_P108926	0.0343 72	2.6758 64	up
GAPDH	A_73_P099681	0.0231 84	2.9674 14	up
GAPDH	A_73_P475903	0.0451 63	2.2305 07	up
GAPDH	A_73_P060776	0.0322 38	3.3683 45	up
GAS7	A_73_110942	0.0102 78	2.4301 19	up
GAS7	A_73_112959	0.0018 03	2.3299 73	up
GCH1	A_73_P080246	0.0379 12	4.6299 29	up
GCH1	A_73_P080251	0.0467 74	4.7247 22	up
GFPT1	A_73_120742	0.0453 96	2.4562 89	up
GINS1	A_73_P281996	0.0204 32	2.4665 45	up
GKN2	A_73_P082756	0.0058 58	7.4960 59	up
GLDC	A_73_P086136	0.0427 58	3.0531 08	up
GLO1	A_73_P361401	0.0223 54	2.3464 27	up
GLRX	A_73_P114381	0.0377	2.1394	up



		08	45	
GLRX	A_73_P072311	0.0176	2.0691	up
		83	29	
GLUL	A_73_P102531	0.0122	2.0568	up
		82	33	
GLUL	A_73_P107851	0.0041	2.1544	up
		6	15	
GLUL	A_73_P414511	0.0128	2.1779	up
		7	47	
GMFB	A_73_P250316	0.0371	2.0789	up
		18	25	
GMFB	A_73_P080241	0.0268	2.3877	up
		56	49	
GNA15	A_73_109440	0.0202	3.3445	up
		25	19	
GNG4	A_73_P042981	0.0442	4.4608	up
		19	51	
GNPNAT1	A_73_P039176	0.0108	2.6532	up
		31	66	
GOLT1B	A_73_P030851	0.0484	2.2553	up
		45	6	
GPI	A_73_103067	0.0441	2.4432	up
		22	27	
GPR135	A_73_P080301	0.0197	2.1848	up
		12	55	
GPR137B	A_73_102180	0.0094	2.2134	up
		66	53	
GTSF1	A_73_111086	0.0251	2.6556	up
		01	75	

GYG2	A_73_P078796	0.0390 8	3.3679 98	up
HAPLN3	A_73_P034666	0.0437 65	16.508 31	up
HEXIM2	A_73_112756	0.0084 41	2.5404 85	up
HEXIM2	A_73_P066076	0.0248 57	2.1328 82	up
HGD	A_73_P107826	0.0065 59	2.4655 87	up
HIF1A	A_73_103797	0.0051 87	3.2186 48	up
HIF1A	A_73_P098736	0.0135 04	4.1639 01	up
HIF1A	A_73_P253966	0.0039 47	3.3720 52	up
HIPK3	A_73_P076211	0.0021 61	2.1330 87	up
HIST1H1C	A_73_P049741	0.0360 87	6.9118 67	up
HIST1H2AC	A_73_115115	0.0012 92	4.8451 45	up
HIVEP2	A_73_P348086	0.0165 16	2.0760 38	up
HK2	A_73_P082146	0.0148 7	4.6690 35	up
HMOX1	A_73_116548	0.0459 08	4.6736 79	up
HOXA4	A_73_118960	0.0200	2.4642	up

		79	9	
HOXB13	A_73_P065591	0.0497 06	3.3546 65	up
HOXD10	A_73_110988	0.0411 22	2.2229 53	up
HSPA1L	A_73_104808	0.0247 21	2.3004 37	up
HSPA4	A_73_101271	0.0336 44	2.2700 53	up
HSPA5	A_73_P400026	0.0149 64	2.1668 42	up
HSPA8	A_73_115239	0.0232 88	2.0586 81	up
HSPA8	A_73_P448151	0.0027 62	2.4191 35	up
HSPA8	A_73_P403651	0.0229 88	2.0782 03	up
HSPA8	A_73_P334021	0.0012 1	2.0635 4	up
HSPA8	A_73_P100171	0.0013 09	2.3924 2	up
HTR2A	A_73_118373	0.0150 1	6.6788 35	up
HTR2A	A_73_P102101	0.0308 42	11.063	up
IER3IP1	A_73_P244890	0.0180 95	2.2227 47	up
IFIT2	A_73_P060031	0.0010 67	6.2783 58	up

IGFBP4	A_73_116582	0.0110 71	3.8306 16	up
IL10RA	A_73_P427186	0.0284 82	4.9157 84	up
IL13RA1	A_73_111820	0.0170 8	2.1534 65	up
IL17A	A_73_120955	0.0258 73	14.983 68	up
IL17F	A_73_P062176	0.0323 16	17.827 9	up
IL17F	A_73_116208	0.0221 15	37.186 92	up
IL1R2	A_73_108594	0.0311 17	79.902 94	up
IL2RA	A_73_109472	0.0483 99	8.2416 52	up
IL4R	A_73_113482	0.0093 44	2.3287 49	up
IRAK2	A_73_111466	0.0018 78	2.5089 36	up
ISG20L2	A_73_P351146	0.0356 83	2.4814 6	up
ISL2	A_73_P069126	0.0436 64	5.6103 83	up
ITGAM	A_73_P250521	0.0077 69	4.9191 95	up
ITGAM	A_73_110160	0.0226 94	14.899 65	up
ITGB1	A_73_P275256	0.0208	2.2451	up

		94	31	
ITGB1BP2	A_73_104391	0.0025 81	2.3784 5	up
JAM3	A_73_P259186	0.0444 15	4.9569 15	up
JMJD6	A_73_P031941	0.0308 49	2.2275 45	up
JMJD6	A_73_120113	0.0270 94	2.6748 98	up
KCNK12	A_73_P082421	4.52E- 04	20.029 42	up
KCNK12	A_73_100946	0.0129 05	17.538 56	up
KCTD19	A_73_119355	0.0268 49	2.1885 4	up
KDELC1	A_73_114227	0.0410 75	3.1211 35	up
KDELR3	A_73_106369	0.0096 31	2.3157 56	up
KIAA1324L	A_73_104666	0.0447 85	4.4945 6	up
KRTAP10-2	A_73_P261696	0.0300 57	3.3913 49	up
LCP1	A_73_P423986	0.0330 49	3.0827 01	up
LDHA	A_73_119375	0.0391 97	6.6007 87	up
LDHA	A_73_P362966	0.0267 19	7.7765 6	up

LDHA	A_73_P269751	0.0298 43	6.7402 31	up
LDLR	A_73_107996	0.0461 24	2.8464 48	up
LDOC1	A_73_102700	0.0327 03	2.1712 3	up
LHFPL2	A_73_104979	0.0373 87	3.5272 77	up
LHFPL2	A_73_P352791	0.0456 91	4.3641 13	up
LIF	A_73_114692	0.0189 67	14.577 71	up
LILRA4	A_73_P034566	0.0113 68	5.2864 25	up
LINGO1	A_73_P069136	0.0182	2.5174 26	up
LMAN1	A_73_118396	0.0116 01	2.2240 49	up
LMAN1	A_73_P337116	0.0193 82	2.2231 53	up
LOC100125947	A_73_P263986	0.0016	2.4891 69	up
LOC100125947	A_73_P031751	0.0231 11	3.6346 32	up
LOC100138951	A_73_P068106	0.0209 11	2.6948 32	up
LOC100196898	A_73_P097671	0.0136 96	3.0013 22	up
LOC281376	A_73_P291891	0.0051	33.504	up

		34	31	
LOC281376	A_73_P064036	0.0381 68	24.890 41	up
LOC407148	A_73_P267316	0.0399 16	3.4366 06	up
LOC407148	A_73_P047156	0.0480 05	12.715 36	up
LOC407171	A_73_P053781	0.0429 24	7.8028 94	up
LOC504773	A_73_P032966	0.0361 19	8.6134 96	up
LOC508666	A_73_109146	0.0101 6	7.4740 33	up
LOC508666	A_73_P103626	0.0079 89	8.6630 77	up
LOC510798	A_73_118705	0.0140 72	3.0083 58	up
LOC511106	A_73_P056106	0.0391 46	109.73 87	up
LOC511106	A_73_P031306	0.0433 31	120.87 75	up
LOC512627	A_73_P076076	0.0174 24	3.5837 36	up
LOC538702	A_73_109986	0.0087 37	2.2783 54	up
LOC574091	A_73_P049546	0.0046 67	2.0894 84	up
LOC614923	A_73_P206162	0.0365 06	22.146 82	up

LOC617141	A_73_P491673	0.0490 53	2.5356 22	up
LOC617654	A_73_P165627	0.0372 63	3.3213 56	up
LOC782062	A_73_P511198	0.0458 07	7.2938 99	up
LPCAT1	A_73_P469993	0.0270 38	2.7985 1	up
LPCAT1	A_73_P070246	0.0075 99	2.1405 44	up
LRRFIP2	A_73_P265101	0.0498 66	2.5662 54	up
LSMEM1	A_73_P042321	0.0200 22	4.6944 36	up
LVRN	A_73_104718	0.0312 66	8.2094 84	up
LY86	A_73_108161	0.0321 28	3.3722 43	up
LY86	A_73_P132311	0.0271 33	3.0178 58	up
LYPLA1	A_73_P057356	0.0174 79	2.9810 47	up
LYPLA1	A_73_P347126	0.0175 36	2.9780 61	up
LYPLA1	A_73_P250921	0.0386 96	2.0105 13	up
LYVE1	A_73_P468658	0.0418 16	9.5825 45	up
LYVE1	A_73_P041846	0.0419	8.3654	up



		01	31	
LYVE1	A_73_P392956	0.0473 08	9.1682 03	up
MAFF	A_73_P115791	0.0370 34	4.4818 38	up
MAN1A1	A_73_P081091	0.0133 16	2.2710 53	up
MAN1A1	A_73_P395981	6.61E- 05	2.2405 01	up
MAN1A1	A_73_P081101	0.0089 97	2.2422 7	up
MANF	A_73_P037206	0.0357 86	2.2480 43	up
MANF	A_73_P302056	0.0276 93	2.2498 88	up
MAP2K3	A_73_101583	0.0305 61	2.2028 77	up
MAP3K8	A_73_P303946	0.0079	2.3544 57	up
MAP3K8	A_73_P046006	0.0035 35	2.7128 35	up
MAP4K1	A_73_P320876	0.0394 27	2.4030 9	up
MAPK6	A_73_P054811	0.0198 31	2.0551 54	up
MAPRE1	A_73_P074321	0.0428 76	2.5047 95	up
MAPRE2	A_73_P103276	0.0354 35	6.7228 59	up

MAPRE2	A_73_P315581	0.0339 05	5.6166 8	up
MATN4	A_73_P074606	0.0281 53	9.0977 16	up
MBOAT7	A_73_101046	0.0492 67	3.3334 4	up
MCEMP1	A_73_P084371	0.0473 82	19.965 53	up
MCTP2	A_73_107207	0.0349 71	4.0678 87	up
MED22	A_73_102761	0.0312 43	2.3709 38	up
MEIS3	A_73_P406456	0.0354 4	2.0485 52	up
MEIS3	A_73_120606	0.0406 37	2.5655 73	up
MEIS3	A_73_P113286	0.0162 98	2.4307 44	up
METRNL	A_73_P129811	0.0476 65	3.0046 9	up
MFAP3L	A_73_114367	0.0409 33	2.2870 41	up
MKNK1	A_73_115182	0.0147 78	2.2766 02	up
MKNK1	A_73_P448386	0.0074 45	2.3311 41	up
MLKL	A_73_P422271	0.0452 61	2.4975 36	up
MLXIP	A_73_P070831	0.0409	2.3260	up

		78	42	
MMGT1	A_73_P327366	0.0134 27	2.0528 83	up
MMP1	A_73_100846	0.0285 72	8.3936 69	up
MMP1	A_73_P101186	0.0278 96	8.3664 15	up
MMP14	A_73_P038121	0.0240 5	3.9242 51	up
MMP19	A_73_P434501	0.0377 17	2.1877 35	up
MMP2	A_73_112336	0.0481 12	7.5182 04	up
MMP23B	A_73_105032	0.0401 91	2.0381 06	up
MMP27	A_73_106099	0.0140 52	13.693 17	up
MMP3	A_73_P074896	0.0076 46	18.360 33	up
MMP3	A_73_P101196	0.0011 57	10.774 88	up
MMP3	A_73_P110776	0.0317 66	12.949 15	up
MRPS12	A_73_P340001	0.0384 71	2.1454 41	up
MTCL1	A_73_P064291	0.0395	2.9177 41	up
MTHFS	A_73_102030	0.0204 97	2.6307 92	up

MXRA5	A_73_P446911	0.0393 91	2.1728 46	up
MYDGF	A_73_P376111	0.0282 13	2.0554 45	up
MYH10	A_73_P065326	0.0446 25	3.8412 63	up
MYO9B	A_73_P117041	0.0488 88	2.2398 52	up
NAA50	A_73_P096121	0.0042 02	2.9352 78	up
NCF1	A_73_108640	0.0225 03	2.1459 61	up
NCKAP1L	A_73_121280	0.0470 14	2.1524 96	up
NDN	A_73_115555	0.0430 18	2.0444 02	up
NES	A_73_P092251	0.0385 72	4.1180 45	up
NFATC2IP	A_73_P351756	0.0229 3	2.2106 93	up
NFKBID	A_73_P383786	0.0247 83	2.5286 42	up
NHSL2	A_73_105203	0.0216 88	3.7968 1	up
NID1	A_73_P386226	0.0131 3	2.5626 1	up
NINJ1	A_73_P370591	0.0119 17	2.1775 44	up
NKAIN1	A_73_P095296	0.0312	10.471	up

		84	02	
NMNAT1	A_73_P037161	0.0098 81	2.1647	up
NOS3	A_73_P049536	0.0483 69	3.7723 4	up
NOS3	A_73_113686	0.0358 36	3.5648 69	up
NOTCH2	A_73_P092616	0.0405 15	2.7652 28	up
NRP2	A_73_P094906	0.0104 89	2.0843	up
NTMT1	A_73_117467	0.0084 19	3.2854 98	up
NTS	A_73_105445	0.0259 71	33.880 24	up
NTS	A_73_P116406	0.0416 41	61.861 57	up
OAS2	A_73_119693	0.0179 1	8.2286 93	up
OLFML2B	A_73_115499	0.0398 6	9.1821 17	up
OOSP1	A_73_117897	0.0159 67	3.5442 25	up
OSBPL6	A_73_P435481	0.0310 85	2.2877 06	up
P4HA1	A_73_P166657	0.0298 56	3.6410 43	up
P4HA1	A_73_P059256	0.0373 1	2.8150 74	up

P4HA2	A_73_P409741	0.0417 06	2.8139 8	up
PACRGL	A_73_P087391	0.0455 22	2.5466 64	up
PADI4	A_73_P095646	0.0317 54	36.558 88	up
PALLD	A_73_P373811	0.0335 53	2.8541 58	up
PALM2	A_73_P086986	0.0478 17	5.9091 82	up
PAPPA	A_73_P087056	0.0145 64	3.9365 92	up
PAPPA2	A_73_P490573	0.0193 36	2.1291 92	up
PAQR7	A_73_117088	0.0485 63	3.5156 03	up
PCBP3	A_73_P373991	0.0152 03	2.4985 97	up
PCDHGC3	A_73_P330926	0.0318 42	2.0767 05	up
PCMT1	A_73_P045241	0.0133 33	2.4271 55	up
PDAP1	A_73_P058831	0.0243 47	2.0120 35	up
PDE1A	A_73_P412656	0.0040 39	8.2754 16	up
PDE4B	A_73_P093211	0.0443 01	3.1337 59	up
PDE6G	A_73_106317	0.0228	4.1273	up

		81	37	
PDE7B	A_73_P030251	0.0432 49	11.069 34	up
PDGFD	A_73_110056	0.0303 56	4.1280 36	up
PDGFRA	A_73_P087621	0.0488 5	6.4140 68	up
PDGFRB	A_73_103918	8.82E- 04	2.1639 61	up
PDGFRB	A_73_P085451	0.0257 65	2.9752 51	up
PDGFRB	A_73_P189124	0.0104 26	2.3268 06	up
PDIA4	A_73_P106446	0.0339 85	2.4227 77	up
PDIA4	A_73_P388286	0.0038 86	2.2544 03	up
PDZRN3	A_73_P063366	0.0041 07	2.9259 52	up
PDZRN3	A_73_P402791	0.0255 08	3.0029 56	up
PEA15	A_73_P361841	0.0183 32	2.4274 02	up
PFKFB3	A_73_118246	0.0013 75	4.2769 02	up
PFKFB3	A_73_P290566	0.0029 16	5.5915 44	up
PGAM1	A_73_P494373	0.0110 1	2.6027 32	up

PGAM1	A_73_115122	0.0182 68	2.4052 83	up
PGAM1	A_73_P452296	0.0125 2	2.6786 13	up
PGAM1	A_73_P060181	0.0213 01	2.8867 15	up
PGK1	A_73_P352526	0.0485 12	3.8213 62	up
PGM3	A_73_P293816	0.0099	2.0998 88	up
PGM3	A_73_102426	0.0040 22	2.2188 2	up
PHF19	A_73_P087101	0.0219 65	2.7605 52	up
PICALM	A_73_P060731	0.0012 32	2.0422 75	up
PIK3R3	A_73_120548	0.0413 75	2.7535 18	up
PIK3R5	A_73_120762	0.0334 71	2.3274 42	up
PILRA	A_73_P058771	0.0227 35	7.0644 52	up
PITPNA	A_73_P445536	0.0079 31	2.4040 66	up
PITPNA	A_73_P046901	0.0065 25	2.0539 18	up
PKM	A_73_100498	0.0344 52	5.0762 58	up
PKM	A_73_P372681	0.0435	5.1157	up



		19	82	
PKM	A_73_P321636	0.0412 55	5.0847 95	up
PLEK	A_73_P395271	0.0438 78	5.0322 43	up
PLEKHA2	A_73_115039	0.0297 59	2.7136 43	up
PLOD1	A_73_P111361	0.0271 02	2.4642 63	up
PLOD1	A_73_109170	0.0254 29	2.0920 34	up
PLOD2	A_73_P362321	0.0226 94	2.8754 99	up
PLOD3	A_73_P332251	0.0119 6	2.4369 73	up
PLOD3	A_73_P058716	0.0207 95	2.4251 67	up
PLXNC1	A_73_P407841	0.0495 99	2.0229 2	up
PMP22	A_73_P240945	0.0311 13	2.4718 24	up
PMP22	A_73_P262746	9.41E- 04	3.4853 07	up
PMP22	A_73_121412	0.0385 82	2.2523 82	up
PNKD	A_73_P111591	0.0305 73	2.1028 76	up
POLR2D	A_73_102829	0.0293 84	2.0632 14	up

PPME1	A_73_P045386	0.0256 92	2.0127 44	up
PQLC1	A_73_119548	0.0426 18	2.6182 63	up
PRAF2	A_73_P128821	0.0314 96	2.6021 27	up
PRDX6	A_73_P284036	0.0366 85	2.3904 6	up
PROK2	A_73_P063386	0.0281 14	28.649 25	up
PROK2	A_73_P063376	0.0099 43	24.276 15	up
PROK2	A_73_111441	0.0091 77	2.4141 14	up
PROK2	A_73_P063381	0.0179 66	25.755 71	up
PRORS1	A_73_P120831	0.0346 46	9.0429 06	up
PRSS12	A_73_101084	0.0201 41	2.3077 32	up
PSTPIP2	A_73_P051906	0.0344 84	5.4845 56	up
PTGES	A_73_P256136	0.0455 07	3.1519 7	up
PTGES	A_73_P110216	0.0388 51	2.6808 27	up
PTGIS	A_73_P204397	0.0191 61	5.6184 31	up
PTPN11	A_73_P269193	0.0077	2.3825	up

		55	13	
PTPN5	A_73_114364	0.0315	27.982	up
		58	64	
PTPN9	A_73_P069146	0.0386	2.0057	up
		24	29	
CSF3	A_73_P497693	0.0274	15.633	up
		99	95	
PTX3	A_73_102935	0.0229	15.661	up
		37	42	
PTX3	A_73_P252256	0.0282	14.981	up
		11	74	
PYGO1	A_73_112257	0.0454	2.1921	up
		73	94	
RAB11A	A_73_P441166	0.0198	2.1553	up
		36	11	
RAB11A	A_73_P036456	0.0177	2.0082	up
		43	82	
RAB31	A_73_P277086	0.0369	7.7314	up
		63	57	
RAB31	A_73_100314	0.0324	3.6770	up
		62	62	
RAB31	A_73_P418611	0.0263	4.4375	up
		59	73	
RAB39A	A_73_P056101	0.0473	2.9876	up
		4	01	
RABGEF1	A_73_P058616	0.0429	2.5811	up
		96	68	
RAI14	A_73_P439926	0.0233	3.0618	up
		1	19	

RAI14	A_73_P070061	6.58E-04	3.251545	up
RAP1B	A_73_P108071	0.014206	2.545375	up
RAP2B	A_73_P104731	0.048736	2.242163	up
RAP2B	A_73_P384106	0.042702	2.098986	up
RASGRP4	A_73_106306	0.042321	13.72621	up
RASL10A	A_73_118055	0.011134	9.192566	up
RASL10A	A_73_P289206	0.033842	8.853049	up
RASSF2	A_73_P073981	0.005814	5.547904	up
RBKS	A_73_P082796	0.002792	2.018322	up
RDM1	A_73_114275	0.048153	2.619836	up
RGL1	A_73_P072386	0.011272	2.575959	up
RGL1	A_73_P433631	0.014523	2.228502	up
RHOBTB3	A_73_P456036	0.032489	2.189863	up
RHOG	A_73_112058	0.029274	3.192441	up
RHOQ	A_73_P082411	0.0149	4.1205	up

		38	94	
RIDA	A_73_108441	0.0421 67	2.6245 58	up
RNF141	A_73_108093	0.0360 25	2.2321 44	up
ROR2	A_73_P086876	0.0223 77	2.4827 22	up
RP2	A_73_P251761	0.0132 14	3.0983 98	up
RPL22L1	A_73_P492058	0.0063 84	2.3092 42	up
RRAS2	A_73_P170362	0.0342 9	2.2237 65	up
RSPRY1	A_73_101196	0.0411 1	2.0490 4	up
RSPRY1	A_73_P342086	0.0255 91	2.7085 54	up
S100A12	A_73_P247181	0.0474 22	17.035 81	up
S100A12	A_73_115208	0.0464 66	11.472 09	up
S100PBP	A_73_P256961	0.0315 03	2.0643 16	up
SAMD4B	A_73_100478	0.0432 33	2.4048 1	up
SAP30	A_73_107269	0.0453 17	2.0274 58	up
SAR1A	A_73_P035276	0.0060 23	2.0698 72	up

SCAMP5	A_73_P116896	0.0462 53	2.1256 2	up
SCARF1	A_73_P064991	0.0483 84	2.1229 97	up
SCARF2	A_73_115139	0.0060 38	2.5784 33	up
SCG2	A_73_113057	0.0369 1	5.8344 03	up
SCRN1	A_73_P088701	0.0364 24	4.3065 3	up
SCTR	A_73_119644	0.0434 47	2.5367 09	up
SDC3	A_73_P095306	0.0122 98	2.8441 86	up
SDC4	A_73_P268751	0.0481 76	2.6553 38	up
SDC4	A_73_P267776	0.0211 87	4.0252 49	up
SDC4	A_73_P074611	0.0148 54	4.0449 47	up
SDS	A_73_P038796	0.0058 54	7.8552 21	up
SDS	A_73_P353841	0.0084 17	8.6585 61	up
SDSL	A_73_104371	0.0294 09	3.9216 09	up
SDSL	A_73_P429061	0.0105 32	4.2992 58	up
SEC61A2	A_73_P460091	0.0175	2.0010	up

		99	56	
SECTM1A	A_73_P035096	0.0458 1	2.5314 06	up
SELENOM	A_73_P071221	0.0142 64	2.6608 68	up
SELENOV	A_73_P067596	0.0205 32	12.259 31	up
SELPLG	A_73_P361146	0.0428 48	5.3359 52	up
SEMA3D	A_73_P115471	0.0367 76	5.4463 98	up
SERPINB10	A_73_117887	0.0494 61	2.2497 53	up
SERPINB4	A_73_P064566	0.0492 03	122.71 51	up
SERPINB4	A_73_P056111	0.0432 25	115.63 93	up
SERPINB4	A_73_P064561	0.0431 92	113.46 02	up
SERPINE1	A_73_105924	0.0236 04	38.450 15	up
SERPINE1	A_73_P109016	0.0228 19	37.806 95	up
SERPINE1	A_73_P109011	0.0236 38	37.393 68	up
SERPINE1	A_73_P103351	0.0139 61	31.417 4	up
SFRP1	A_73_P295516	0.0307 35	2.1604 02	up

SFRP1	A_73_P108311	0.0121 85	2.1482 68	up
SH2D3C	A_73_P367781	0.0282 94	2.1738 18	up
SH3PXD2B	A_73_P283776	0.0213 45	4.1335 71	up
SH3PXD2B	A_73_P330556	0.0292 13	5.1712 58	up
SH3PXD2B	A_73_P395296	0.0406 05	3.3362 15	up
SIGLEC10	A_73_P068136	0.0292 63	2.8370 61	up
SIRPA	A_73_P050801	0.0473 03	3.7299 79	up
SIRPB1	A_73_P045106	0.0260 84	2.6489 75	up
SIX2	A_73_116955	0.0277 61	4.2057 84	up
SLC11A1	A_73_P030091	0.0451 28	10.616 65	up
SLC13A5	A_73_120563	0.0127 33	7.3492 92	up
SLC16A14	A_73_P095176	0.0160 86	2.5508 3	up
SLC16A3	A_73_P419176	0.0322 09	6.6361 64	up
SLC16A3	A_73_P035916	0.0360 96	14.252 93	up
SLC16A3	A_73_P357951	0.0433	13.365	up



		98	1	
SLC16A3	A_73_119168	0.0144 37	5.7889 87	up
SLC16A7	A_73_120605	0.0014 05	4.2808 29	up
SLC16A7	A_73_P100686	0.0021 76	3.9934 68	up
SLC16A7	A_73_P275096	0.0011 96	3.7262 6	up
SLC17A9	A_73_P297026	0.0122 92	2.0674 45	up
SLC2A3	A_73_P333276	0.0461 49	10.657 65	up
SLC2A9	A_73_P087971	0.0215 21	2.1077 26	up
SLC35B1	A_73_P406821	0.0042 28	2.0762 01	up
SLC35B1	A_73_P251811	0.0130 19	2.3156 5	up
SLC35B4	A_73_P088996	0.0494 1	2.8817 38	up
SLC35E4	A_73_P136781	0.0388 56	3.0628 86	up
SLC39A13	A_73_121156	0.0136 67	2.0746 46	up
SLC39A14	A_73_P295206	0.0060 79	2.8504 18	up
SLC39A14	A_73_P361831	0.0019 38	4.4520 93	up

SLC39A14	A_73_107893	0.0061 66	3.7743 7	up
SLC39A14	A_73_P174407	0.0064 04	3.7556 97	up
SLC39A14	A_73_P446916	0.0060 36	2.4555 48	up
SLC4A4	A_73_P110336	0.0045 51	2.9255 35	up
SLC7A6	A_73_106457	0.0497 07	3.0354 3	up
SLC7A6	A_73_P067206	0.0118 82	3.1250 3	up
SLCO2A1	A_73_101495	0.0466 08	2.9314 06	up
SLCO4A1	A_73_P074136	0.0170 44	6.3381 72	up
SLPI	A_73_P048841	0.0237 15	377.55 35	up
SMG6	A_73_P065021	0.0295 01	2.0453 33	up
SNTN	A_73_P042751	0.0192 2	4.1889 5	up
SOCS3	A_73_P044671	0.0384 76	4.0558 67	up
SPACA3	A_73_P051556	0.0354 88	2.1495 1	up
SPATA45	A_73_P036661	0.0114 65	2.2878 88	up
SPI1	A_73_P331786	0.0397	5.2074	up

		49	88	
SRGN	A_73_P047976	0.0475	15.094	up
		56	53	
SRM	A_73_P120466	0.0293	2.8533	up
		57	38	
SRM	A_73_P071931	0.0304	3.0873	up
		56	92	
ST3GAL3	A_73_P320726	0.0498	3.5737	up
		51	63	
STC1	A_73_P052376	0.0317	4.8563	up
		02	39	
STEAP1	A_73_P088771	0.0461	9.1361	up
		57	45	
STEAP2	A_73_109889	0.0323	4.4558	up
		11	53	
STIP1	A_73_P165432	0.0306	2.0464	up
		87	91	
STIP1	A_73_P312826	0.0487	2.1451	up
		49	04	
STK38	A_73_P380800	0.0082	2.2494	up
		95	99	
STX2	A_73_P113611	0.0490	3.3182	up
		24	53	
STX2	A_73_P104091	0.0421	3.3058	up
		34	17	
STX2	A_73_P052791	0.0353	3.3762	up
		44	92	
SUV39H2	A_73_P264691	0.0380	2.1208	up
		72	44	

SYK	A_73_P366781	0.0018 41	2.7729 75	up
SYK	A_73_P030256	9.40E- 04	2.7185 2	up
SYN1	A_73_P046716	0.0052 83	14.805 7	up
SYN1	A_73_P078496	0.0081 25	8.8149 17	up
SYT11	A_73_P257771	0.0469 89	5.6052 56	up
TBC1D4	A_73_P077356	0.0238 32	2.1221 99	up
TBX20	A_73_105901	0.0017 33	5.0846 95	up
TBXA2R	A_73_P084551	0.0408 31	2.5890 06	up
TCAM1	A_73_P049376	0.0363 33	2.4090 11	up
TENM4	A_73_119295	0.0475 4	2.3118 84	up
TGFBI	A_73_112587	0.0262 63	6.6446 93	up
THBS1	A_73_P413916	0.0456 02	19.395 43	up
THBS2	A_73_102889	7.07E- 04	13.239 1	up
THBS2	A_73_P450226	0.0053 97	16.222 39	up
TIMP1	A_73_120461	0.0313	28.726	up

		97	45	
TIMP1	A_73_P044976	0.0340 14	43.769 55	up
TIMP2	A_73_108874	0.0392 21	3.8592 47	up
TIMP2	A_73_P461481	0.0345 52	4.0458 65	up
TLE4	A_73_P050391	0.0376 22	2.1101 09	up
TLN1	A_73_P324931	0.0154 39	2.4964 11	up
TLR4	A_73_P103081	0.0451 15	2.8081 33	up
TLR8	A_73_106029	0.0245 64	2.0212 56	up
TMEM119	A_73_P045316	0.0145 68	4.7762 06	up
TMEM156	A_73_P284116	0.0451 14	6.6002 9	up
TMEM156	A_73_107683	0.0448 44	5.3724 53	up
TMEM165	A_73_110490	0.0448 8	2.2713 26	up
TMEM165	A_73_P087636	0.0389 59	2.6495 35	up
TMEM165	A_73_P348441	0.0456 37	2.7192 82	up
TMEM183A	A_73_P273621	0.0219 25	2.0892 86	up

TMEM184B	A_73_110164	0.0408 89	2.0416 31	up
TMEM2	A_73_P086296	0.0299 66	2.215	up
TMEM2	A_73_P320471	0.0420 51	2.7925 32	up
TMEM263	A_73_P332366	0.0152 42	2.0555 52	up
TMEM35B	A_73_P093811	0.0397 4	2.2156 88	up
TNC	A_73_P347831	0.0416 04	18.340 58	up
TNC	A_73_P041901	0.0321 33	14.319 93	up
TNFAIP8L3	A_73_114464	0.0225 93	3.3627 92	up
TNFAIP8L3	A_73_P080156	0.0432 53	4.2387 75	up
TNFAIP8L3	A_73_P357816	0.0458 47	4.0601 22	up
TNFRSF12A	A_73_P058061	0.0385 38	3.0233 31	up
TNIP1	A_73_P447851	0.0460 66	2.6162 21	up
TNIP1	A_73_109931	0.0101 69	2.2230 7	up
TNIP1	A_73_P085491	0.0420 25	2.3451 07	up
TOMM34	A_73_P355551	0.0354	2.2615	up

		61	86	
TPI1	A_73_P281926	0.0024 12	2.5571 69	up
TPI1	A_73_P040646	1.51E- 04	2.7092 85	up
TPI1	A_73_106429	0.0060 87	2.5564 73	up
TPM4	A_73_P397491	0.0277 79	2.7972 27	up
TPM4	A_73_P203932	0.0174 9	3.0908 45	up
TPM4	A_73_P495148	0.0187 13	2.8894 64	up
TRABD2B	A_73_119302	0.0262 92	2.2427 35	up
TRAM2	A_73_P062181	0.0431 79	3.9722 3	up
TRERF1	A_73_103980	0.0168 92	2.0660 89	up
TRIM8	A_73_P060281	0.0248 21	2.1850 89	up
TSPAN32	A_73_P061751	0.0357 19	3.1190 97	up
TUBB3	A_73_P048991	0.0076 05	3.1388 51	up
TWIST2	A_73_P036566	0.0247 69	5.0384 19	up
TXN	A_73_101578	0.0496 87	2.9645 61	up

UFM1	A_73_P253571	0.0090 07	2.4178 77	up
UFM1	A_73_105000	0.0033 81	2.9481 36	up
UFM1	A_73_117456	0.0216 95	2.0400 15	up
UGCG	A_73_P368861	0.0057 4	2.1296 05	up
UGCG	A_73_115025	0.0081 46	2.1389 73	up
UGDH	A_73_P273721	0.0476 11	3.1811 43	up
UGDH	A_73_P300066	0.0233 8	3.3758 77	up
UGGT2	A_73_P371571	0.0101 72	2.7310 21	up
UPB1	A_73_P036686	1.05E- 04	2.1308 57	up
UPP1	A_73_P384886	0.0201 39	3.2896 23	up
UTP11	A_73_120678	0.0489 56	2.1895 95	up
UTP15	A_73_116315	0.0367 06	2.2253 38	up
VNN2	A_73_104181	0.0372 63	17.745 9	up
WASF1	A_73_107639	0.0105 86	2.4950 71	up
WDR1	A_73_P290301	1.88E-	2.0211	up



		04	11	
WNT2	A_73_P051501	0.0387 75	12.065 98	up
XIRP1	A_73_P105616	0.0217 25	16.336 19	up
YIF1B	A_73_P067511	0.0397 14	2.0058 24	up
ZDHHC2	A_73_117673	0.0288 66	12.571 19	up
ZDHHC2	A_73_P059716	0.0270 01	12.487 69	up
ZSWIM6	A_73_P423851	0.0445 18	2.1533 92	up
ABCA12	A_73_P057731	0.0044 4	24.824 43	down
ABCC5	A_73_P042366	0.0147 04	2.4091 04	down
ABHD1	A_73_P297156	0.0038 27	2.5120 23	down
ABHD1	A_73_111167	0.0247 18	2.8124 99	down
ACSM5	A_73_P058346	0.0133 23	11.705 77	down
ADAMDEC1	A_73_100345	0.0351 03	2.2918 24	down
ADIRF	A_73_P043586	0.0210 19	3.0994 95	down
AGRN	A_73_P072151	0.0429 28	6.8669 99	down

AKAP7	A_73_110360	0.0198 97	4.6898 28	down
AKAP7	A_73_P503378	0.0405 6	4.4653 98	down
AKAP7	A_73_P363311	0.0112 01	4.4921 59	down
AKR1B1	A_73_P099551	0.0110 75	3.1310 36	down
AKR1C3	A_73_P031791	0.0356 13	26.380 18	down
ALAD	A_73_P035921	0.0012 31	2.0963 07	down
ALOX12E	A_73_P033946	0.0180 36	4.6648 66	down
AMH	A_73_P251336	0.0194 06	2.6377 98	down
ANKH	A_73_P281111	0.0466 78	2.3391 13	down
ANO1	A_73_P376666	0.0085 51	2.2986 09	down
ANO1	A_73_P061711	0.0231 83	2.2312 29	down
AP1S3	A_73_P038976	0.0316 35	2.1867 21	down
APOE	A_73_P254587	0.0423 88	2.8474 18	down
APOL3	A_73_P297711	0.0342 65	2.8855 79	down
AQP3	A_73_112174	0.0279	4.1718	down

		92	52	
ARHGAP20	A_73_P141896	0.0280 17	4.0270 62	down
ARHGEF28	A_73_105318	0.0232 38	3.6577 06	down
ARMC12	A_73_106942	0.0048 41	2.2322 6	down
BAZ2B	A_73_P268421	0.0405 81	2.3392 71	down
BAZ2B	A_73_P094506	0.0366 89	2.2982 25	down
BAZ2B	A_73_P302271	0.0083 26	2.7203 1	down
BAZ2B	A_73_P094501	0.0342 87	2.1987 98	down
BAZ2B	A_73_P388586	0.0101 8	2.4988 61	down
BAZ2B	A_73_P294051	0.0456 06	2.4185 05	down
BCAM	A_73_P395381	0.0040 81	2.472	down
BCAM	A_73_118133	0.0219 43	2.8617 38	down
BCAS1	A_73_P044101	0.0391 03	4.2081 52	down
BCAS1	A_73_P300766	0.0264 88	3.9639 51	down
BCAS1	A_73_105943	0.0320 52	4.6241 1	down

BCL2L14	A_73_P033666	0.0370 94	2.6972 09	down
BEND7	A_73_116071	0.0056 08	2.1323 66	down
BLA-DQB	A_73_P031816	0.0064 26	5.4743 2	down
BLA-DQB	A_73_P362616	0.0058 07	5.7883 13	down
BMP3	A_73_113326	0.0493 72	5.6784 93	down
BOLA	A_73_P032576	0.0383 7	2.7904 07	down
BOLA	A_73_P098606	0.0335 5	2.9749 7	down
BOLA	A_73_P098676	0.0212 92	2.5722 43	down
BOLA-DMA	A_73_P372951	0.0067 94	5.3157 88	down
BOLA-DMA	A_73_104988	0.0086 2	2.8130 87	down
BOLA-DMB	A_73_P419141	0.0154 01	3.5943 28	down
BOLA-DMB	A_73_P039926	0.0156 21	3.4868 67	down
BOLA-DOA	A_73_121193	0.0086 72	2.2533 53	down
BOLA-DQA1	A_73_P052576	0.0100 92	6.8460 82	down
BOLA-DQA1	A_73_P235072	0.0025	7.3700	down

		06	13	
BOLA-DQA1	A_73_P245636	0.0076	7.1142	down
		25	86	
BOLA-DQA1	A_73_P118256	0.0071	5.4750	down
		18	47	
BOLA-DQA2	A_73_P106611	0.0392	5.9639	down
			38	
BOLA-DQA2	A_73_P039756	0.0054	6.8459	down
		2	53	
BOLA-DQB	A_73_P052096	0.0083	5.5012	down
		86	62	
BOLA-DRA	A_73_P038356	0.0137	5.0082	down
		43	86	
BOLA-DRA	A_73_107479	0.0121	4.8797	down
		23	98	
BOLA-DRA	A_73_P438206	0.0017	5.0127	down
		86	31	
BOLA-DRB3	A_73_P062206	0.0069	5.2618	down
		97	07	
BOLA-DRB3	A_73_112936	0.0189	5.0875	down
		51	35	
BOLA-DRB3	A_73_P045206	0.0132	5.4567	down
		28	1	
BOLA-DRB3	A_73_P103296	0.0038	6.0247	down
		03	94	
BOLA-N	A_73_P098656	0.0169	2.4987	down
		13	96	
BOLA-N	A_73_P098666	0.0408	2.4125	down
			73	

BOLA-NC1	A_73_P109161	0.0316 73	2.6198 78	down
BPNT1	A_73_114273	0.0235 94	2.1736 18	down
BRB	A_73_P248396	0.0482 25	4.7615 96	down
BRB	A_73_104258	0.0034 27	4.4758 86	down
BTIGGHB	A_73_102534	0.0417 66	20.204 29	down
C11H2orf68	A_73_P033076	0.0018 45	2.0541 15	down
C15H11orf52	A_73_P368981	0.0494 74	9.6947 01	down
C20H5orf22	A_73_P033471	0.0117 84	2.0390 44	down
C23H6orf141	A_73_115487	0.0088 57	2.2995 77	down
C25H16orf59	A_73_112071	0.0025 03	2.0115 91	down
C25H16orf89	A_73_P159682	0.0336 54	2.6724 36	down
CAPN8	A_73_P046081	0.0053 2	6.8665 63	down
CARMIL1	A_73_P509943	0.0161 19	3.2078 86	down
CBX7	A_73_114345	0.0490 36	2.6459 43	down
CCDC170	A_73_P131736	0.0205	5.0832	down

		06	27	
CCDC68	A_73_P064491	0.0393 37	8.1346 28	down
CCL17	A_73_114267	0.0141 78	4.9323 4	down
CCL17	A_73_P067036	0.0354 81	10.692 22	down
CCSER1	A_73_P401286	0.0077 37	3.3638 39	down
CCSER1	A_73_P047196	0.0227 67	3.0377 1	down
CCSER1	A_73_101096	0.0481 85	3.9990 77	down
CD1B	A_73_104775	0.0499 57	3.7131 69	down
CD1E	A_73_P039461	0.0062 12	7.0365 65	down
CD52	A_73_116074	0.0162 13	3.6941 84	down
CD59	A_73_P039931	0.0041 5	4.5258 67	down
CD72	A_73_109691	0.0276 68	2.7813 71	down
CD72	A_73_P086371	0.0073 05	2.5117 81	down
CD74	A_73_P106621	0.0200 74	5.9041 56	down
CD74	A_73_P393756	0.0166 28	5.1446 31	down

CD74	A_73_P103191	0.0249 13	5.1432 17	down
CD74	A_73_116755	0.0216 71	5.9114 61	down
CD74	A_73_P106626	0.0179 22	4.7688 24	down
CD81	A_73_P267391	0.0493 19	2.1505 22	down
CDK5RAP2	A_73_P469683	0.0143 72	2.2066 71	down
CDKN1C	A_73_P050206	0.0309 45	2.8238 11	down
CEP72	A_73_P070276	0.0222 72	3.3173 24	down
CHL1	A_73_P280616	0.0033 07	7.6504 7	down
CIRBP	A_73_P466570	0.0294 41	3.9994 66	down
CIRBP	A_73_P037761	0.0376 13	6.4398 71	down
CIRBP	A_73_P085091	0.0332 53	3.8261 49	down
CLCN4	A_73_106852	0.0453 52	2.6955 15	down
CLEC7A	A_73_P379206	0.0262 85	2.0537 42	down
CLIP4	A_73_P040811	0.0067 94	2.9490 63	down
CLSTN1	A_73_P461751	0.0348	2.0002	down



		7	87	
CLSTN1	A_73_P071966	0.0349	2.0027	down
		84	35	
CLSTN1	A_73_P256696	0.0204	3.4743	down
		61	9	
CLSTN1	A_73_P296331	0.0386	2.1723	down
		88	69	
CLSTN1	A_73_105465	0.0174	3.4474	down
		55	24	
CLU	A_73_P457253	0.0238	2.1595	down
		36	12	
CLU	A_73_P271156	0.0027	2.4409	down
		74	86	
COG2	A_73_119826	0.0357	2.0072	down
		61	37	
COMT	A_73_113125	0.0487	2.2021	down
		39	96	
CPA5	A_73_P414261	0.0233	3.7181	down
		35	46	
CTC1	A_73_115976	0.0120	2.0104	down
		91	17	
CTSW	A_73_P385136	0.0017	3.1148	down
		19	45	
CTSW	A_73_P330621	0.0416	7.4812	down
		8	69	
CX3CL1	A_73_P159902	0.0014	5.9047	down
		62	94	
CX3CR1	A_73_P337156	0.0112	14.356	down
		16	43	

CX3CR1	A_73_P047336	0.0032 79	20.209 52	down
CXCL10	A_73_P102356	0.0377 34	20.120 09	down
CXCL10	A_73_114710	0.0317 79	18.141 25	down
CXCL11	A_73_P043071	0.0389 38	43.430 33	down
CXCL12	A_73_P043266	0.0442 55	2.0813 45	down
CXCL9	A_73_P142181	0.0205 02	17.854 61	down
CXCL9	A_73_P043326	0.0464 63	18.798 96	down
CXCR3	A_73_113142	0.0462	2.2493 6	down
CXCR6	A_73_106536	0.0279 27	4.2251 53	down
CYP27A1	A_73_110316	0.0131 68	2.0202 46	down
CYP2S1	A_73_105198	0.0162 82	2.8817 28	down
DBP	A_73_P040556	0.0294 61	2.0705 58	down
DBX2	A_73_P037531	0.0095 33	5.8218 16	down
DCXR	A_73_P448946	0.0403 73	2.7053 35	down
DCXR	A_73_109435	0.0306	2.8352	down

		4	07	
DEPDC7	A_73_108915	0.0083 62	3.2211 65	down
DEPDC7	A_73_P076201	0.0077 88	3.0431 17	down
DEPDC7	A_73_P297316	0.0063 68	2.6621 89	down
DIO2	A_73_P045681	0.0469 11	8.9032 42	down
DMRTA1	A_73_117181	0.0495 1	4.8718 66	down
DNASE1	A_73_P048336	0.0406 21	2.2043 46	down
DNASE1L3	A_73_P063441	0.0092	3.2077 19	down
DNASE1L3	A_73_113764	0.0090 47	4.1668 56	down
DNASE1L3	A_73_P338016	0.0158 22	4.5763 35	down
DSB	A_73_P050321	0.0046 92	5.3759 7	down
DTNB	A_73_P082841	0.0344 28	3.1466 89	down
EFHB	A_73_102939	0.0421 1	2.3387 1	down
EHHADH	A_73_109910	0.0459 4	8.4501 83	down
EHHADH	A_73_P096436	0.0052 41	4.9421	down

ELP	A_73_P074626	0.0320 67	9.7115 25	down
ENPP3	A_73_114715	0.0448 46	14.665 32	down
EPHA7	A_73_P165787	0.0326 05	3.0084 01	down
EPHA7	A_73_115624	0.0323 7	9.8039 72	down
EQTN	A_73_112736	0.0078 08	4.7541 01	down
ERAP1	A_73_114759	0.0467 35	2.0401 59	down
ERBB2	A_73_100116	0.0416 84	3.9982 66	down
FAM149A	A_73_P048241	0.0467 81	2.2501 13	down
FAM173A	A_73_111465	0.0408 51	2.0591 63	down
FAM26F	A_73_106919	0.0411 91	3.2748 52	down
FASLG	A_73_112067	0.0490 83	3.8909 97	down
FBXL6	A_73_111941	0.0041 64	2.7212 57	down
FBXO44	A_73_115369	0.0236 28	3.3469 29	down
FCGR2B	A_73_P032421	0.0331 66	2.3485 01	down
FGFR1	A_73_P050691	0.0488	2.9000	down

		34	29	
FGFR1	A_73_P101701	0.0341	2.1874 6	down
FGFR2	A_73_P324691	0.0499	4.6732 69 21	down
FGFR2	A_73_P060481	0.0372	4.1350 09 53	down
FGFR4	A_73_P123006	0.0166	50.055 57 7	down
FGG	A_73_P032566	0.0111	5.9782 69 98	down
FNBP1L	A_73_103058	0.0404	3.0215 36 77	down
FOXI1	A_73_106642	0.0120	2.5662 73 83	down
FRRS1	A_73_102140	0.0428	5.6240 68 01	down
FSBP	A_73_P073211	0.0457	8.1322 44 71	down
FXVD3	A_73_113942	0.0479	4.2203 99 71	down
FXVD6	A_73_P434456	0.0481	4.6093 29 07	down
GABRP	A_73_112834	0.0284	46.572 86 85	down
GALNT16	A_73_P340631	0.0034	2.3267 31 37	down
GALNT16	A_73_112202	0.0030	2.1844 51 48	down

GARNL3	A_73_P083246	0.0063 22	5.1353 47	down
GCDH	A_73_106398	0.0475 23	2.2346 98	down
GCHFR	A_73_110541	0.0476 84	3.0567 56	down
GFRA1	A_73_111569	0.0257 51	4.4081 06	down
GFRA1	A_73_105610	0.0350 64	16.645 87	down
GNA14	A_73_107507	0.0144 88	2.5638 95	down
GPD1	A_73_P271746	0.0299 62	4.1239 58	down
GPD1	A_73_P428831	0.0172 1	2.6728 01	down
GPD1	A_73_P041066	0.0390 72	4.6242 61	down
GPR34	A_73_P057056	0.0281 69	3.9460 22	down
GPR37	A_73_106897	0.0439 06	7.6197 73	down
GRIA3	A_73_P374331	0.0428 98	2.0787 74	down
GRIA3	A_73_121441	0.0485 72	2.0961 98	down
GUCY1A3	A_73_P047466	0.0313 33	2.3437 19	down
GUCY1A3	A_73_116819	0.0313	2.3893	down

		12	16	
GUF1	A_73_113979	0.0044	2.1337	down
		19	31	
H19	A_73_P052506	0.0214	3.8964	down
		94	7	
H19	A_73_P414951	0.0406	3.9123	down
		87	14	
H1F0	A_73_P360911	0.0365	2.5771	down
		4	59	
H1FX	A_73_P063886	0.0378	2.1848	down
		37	92	
HDDC3	A_73_P068971	0.0353	3.4960	down
		11	95	
HES1	A_73_115064	0.0493	3.8108	down
		07	51	
HEXDC	A_73_P066256	0.0073	2.5094	down
		76	63	
HEXDC	A_73_116046	0.0315	2.6387	down
		3	53	
HLCS	A_73_P097141	0.0293	2.5203	down
		91	86	
HLCS	A_73_P406046	0.0399	2.8974	down
		21	17	
HLCS	A_73_106145	0.0339	2.9112	down
		48	67	
HLF	A_73_P214117	0.0217	2.6093	down
		6	5	
HOXA2	A_73_116648	0.0317	2.1334	down
		87	74	

HS3ST6	A_73_119537	0.0443 69	4.1923 32	down
HSD11B2	A_73_101467	0.0471 56	5.1822 4	down
IDO1	A_73_118680	0.0304 77	8.7141 57	down
IL12RB1	A_73_104194	0.0310 89	2.2137 34	down
IL15	A_73_101953	0.0449 43	2.5492 66	down
IL17RE	A_73_P063261	0.0165 12	4.2345 02	down
IL34	A_73_P050151	0.0158 3	3.1917 36	down
IL34	A_73_P255686	0.0105	2.4134 3	down
IRF8	A_73_109763	0.0111 26	2.7105 94	down
ITK	A_73_P049176	0.0355 76	5.5293 91	down
ITPR1	A_73_116764	0.0472 38	2.9126 22	down
IZUMO4	A_73_113281	0.0245 99	4.6962 92	down
JADE1	A_73_106582	0.0050 88	2.0929 52	down
JADE2	A_73_P150321	0.0401 21	2.7556 98	down
JSP.1	A_73_112038	0.0353	2.5617	down



		88	34	
KCNN2	A_73_114963	0.0493	36.956	down
		76	25	
KIAA1217	A_73_P073696	0.0477	2.9961	down
		98	23	
KIF13B	A_73_P085866	0.0032	2.2451	down
		28	74	
KIF5C	A_73_116346	0.0400	3.0184	down
		04	59	
KIF5C	A_73_P094586	0.0234	3.6095	down
		97	92	
KLHL24	A_73_108504	0.0176	2.1211	down
		52	43	
KLHL33	A_73_112134	0.0482	3.6763	down
		31	73	
KLRB1	A_73_P091416	0.0090	10.407	down
		47	55	
KLRC1	A_73_P109433	0.0498	22.473	down
		79	37	
KLRC1	A_73_P111436	0.0389	12.327	down
		66	05	
KLRD1	A_73_103989	0.0423	14.357	down
		91	39	
KLRK1	A_73_P038206	0.0439	16.197	down
		75	34	
KLRK1	A_73_117352	0.0358	4.7102	down
		5	86	
LA-DQB	A_73_P107936	0.0092	5.7181	down
		11	02	

LAP3	A_73_104077	0.0054 22	2.8875 39	down
LAP3	A_73_P264826	0.0093 61	2.4973 87	down
LOC100125916	A_73_P030051	0.0194 89	2.4992 63	down
LOC100139916	A_73_P247586	0.0465 31	2.8117	down
LOC100299180	A_73_P056656	0.0428 21	4.9452 61	down
LOC100299180	A_73_P249676	0.0481 86	4.5644 08	down
LOC100299281	A_73_106084	0.0380 56	3.4346 81	down
LOC100300091	A_73_115441	0.0243 84	36.084 76	down
LOC100336669	A_73_P093016	0.0312 49	4.0893 17	down
LOC100336669	A_73_P093011	0.0301 43	3.6616 57	down
LOC100848575	A_73_P091376	0.0330 32	9.9036 84	down
LOC100848815	A_73_P062201	0.0062 64	7.0339 63	down
LOC104970193	A_73_P492893	0.0298 21	18.325 1	down
LOC510193	A_73_P183847	0.0215 13	2.1085 29	down
LOC512684	A_73_P046931	0.0197	2.1023	down

		13	34	
LOC515676	A_73_P503788	0.0213 4	3.2608 6	down
LOC515676	A_73_103255	0.0131 83	3.1654	down
LOC616942	A_73_P098701	0.0286 35	2.6893 47	down
LOC617875	A_73_P062746	0.0206 13	2.1555 5	down
LOC618367	A_73_P112546	0.0079 22	4.2511 48	down
LOC618541	A_73_P104631	0.0172 59	2.3095 06	down
LOC768255	A_73_P046586	0.0316 87	4.8134 91	down
LOC784038	A_73_P487748	0.0311 23	124.40 38	down
LOC784038	A_73_113594	0.0299 13	96.057 09	down
LOC784535	A_73_P088546	0.0054 67	3.1777 37	down
LOC789034	A_73_P190827	0.0468 05	2.1425 77	down
LONP2	A_73_102490	0.0034 08	2.6506 4	down
LONP2	A_73_P316926	0.0078 18	2.2945 05	down
LPAR2	A_73_P356271	0.0498 64	3.7656 44	down

LRIG3	A_73_106188	0.0451 92	5.2210 41	down
LRIG3	A_73_P090621	0.0246 17	3.0436 65	down
LRIG3	A_73_P334911	0.0330 85	2.3128 19	down
LRRC20	A_73_P052286	0.0179 28	2.6305 65	down
LRRC75A	A_73_P159852	0.0420 6	2.4148 13	down
LTA4H	A_73_101454	0.0352 63	2.1026 11	down
LY6E	A_73_P035326	0.0462 24	3.5535 23	down
LYPD1	A_73_P039421	0.0448 95	3.1533 54	down
MAGI3	A_73_P295931	0.0334 07	2.3482 54	down
MAGI3	A_73_P456961	0.0340 99	2.3735 95	down
MAGI3	A_73_P115841	0.0404 7	2.5945 95	down
MAP2	A_73_P335396	0.0309 13	5.8658 71	down
MAP3K1	A_73_101112	0.0057 41	2.1911 09	down
MATN2	A_73_P410286	0.0478 23	3.0650 24	down
MCF2L	A_73_118474	0.0380	2.8935	down

		56	49	
MET	A_73_P031011	0.0410 05	3.9803 96	down
MGC133764	A_73_P047166	0.0480 27	4.5703 61	down
MGST1	A_73_P033716	0.0362 07	3.6790 63	down
MOB3B	A_73_P203887	0.0239 19	3.5306 24	down
MOB3B	A_73_111228	0.0174 92	2.8551 34	down
MPPED2	A_73_101013	0.0477 2	3.6959 2	down
MSTN	A_73_120254	0.0054 67	13.384 71	down
MSTN	A_73_P036291	0.0192 8	21.685 8	down
MTERF2	A_73_P301401	0.0376 07	2.0271 04	down
MTSS1	A_73_P283196	0.0089 15	2.2542 81	down
MTSS1	A_73_P430641	0.0209 88	2.0888 43	down
MUC15	A_73_102821	0.0381 31	243.36 46	down
MYF6	A_73_112243	0.0225 28	3.0580 3	down
MYF6	A_73_P034951	0.0359 72	3.4843 41	down

MYOM1	A_73_P142236	0.0487 61	8.1447 47	down
MZB1	A_73_P035926	0.0438 3	2.7260 67	down
N4BP2L1	A_73_109485	0.0445 77	3.6098 08	down
N4BP2L1	A_73_P302431	0.0493 53	2.8900 28	down
NCAPH	A_73_P475228	0.0450 12	2.3191 09	down
NECTIN4	A_73_114728	0.0335 11	22.405 81	down
NGFR	A_73_104241	0.0433 82	16.021 27	down
NIM1K	A_73_112662	0.0425 86	6.4939 68	down
NKX3-1	A_73_P086611	0.0190 64	5.8489 87	down
NR0B1	A_73_P101586	0.0393 07	2.0104 97	down
NR3C2	A_73_P070386	0.0331 31	2.9405 79	down
NRIP1	A_73_P095881	0.0401 36	2.2536 86	down
NSUN7	A_73_106626	0.0175 77	2.8479 35	down
NUAK2	A_73_120907	0.0189 5	4.0172 61	down
NUAK2	A_73_P313351	0.0263	5.0394	down

		73	8	
NUB1	A_73_P034791	0.0306	2.2518	down
		38	27	
OR9Q2	A_73_P076691	0.0165	2.6794	down
		79	87	
OXTR	A_73_100134	0.0252	28.713	down
		24	2	
OXTR	A_73_P416286	0.0110	20.856	down
		9	37	
PARD3	A_73_P369951	0.0445	2.0045	down
		43	56	
PARD3	A_73_P102316	0.0275	2.2287	down
		45	66	
PARP6	A_73_P034118	0.0454	2.2184	down
		27	84	
PDCD4	A_73_P350766	0.0467	4.4828	down
		22	65	
PDCD4	A_73_P038056	0.0447	4.5308	down
		88	83	
PDZK1	A_73_100472	0.0394	3.1036	down
		72	75	
PGR	A_73_111533	0.0279	2.3641	down
		1	22	
PIK3C2G	A_73_P447911	0.0157	18.551	down
		73	85	
PLAC8	A_73_107112	0.0157	2.6502	down
		29	64	
PLAC8	A_73_P400741	0.0226	2.9903	down
		99	68	

PLAC8	A_73_P111621	0.0118 49	2.9220 68	down
PLAC8	A_73_P110341	0.0273 65	2.7385 23	down
PLEKHH1	A_73_P080421	0.0473 03	2.2201 38	down
PLEKHH3	A_73_111065	0.0389 07	2.4788 2	down
PNPLA7	A_73_P056706	0.0463 2	2.5237 62	down
POGK	A_73_102321	0.0027 75	2.4882 73	down
POGK	A_73_P110481	0.0028 19	2.3501 73	down
PPP1R1B	A_73_P251376	0.0099 69	4.2749 31	down
PPP1R1B	A_73_105101	0.0227 79	4.1234 59	down
PPP1R9A	A_73_P088246	0.0306 98	2.5401 89	down
PPP4R4	A_73_117097	0.0215 79	3.1260 81	down
PSD2	A_73_P171142	0.0174 23	2.2014 85	down
PSMB10	A_73_P051686	0.0231 63	2.7594 38	down
PSMB9	A_73_P294026	0.0143 1	2.6483 49	down
PSMB9	A_73_118729	0.0118	2.6572	down



		4	29	
PSMB9	A_73_P511858	0.0246 18	2.2532 76	down
PTGFR	A_73_P093111	0.0450 5	2.0179 31	down
PTPRCAP	A_73_106672	0.0300 76	2.6626 84	down
PTPRU	A_73_P331676	0.0100 39	3.0075 84	down
PTPRU	A_73_P095316	0.0476 15	3.6249 61	down
PTPRU	A_73_P122876	0.0078 47	2.9537 3	down
PTPRU	A_73_P416006	0.0217 36	2.7251 23	down
RAD54B	A_73_115983	0.0372 99	2.7537 67	down
RASGEF1C	A_73_P035821	0.0333 57	8.1855 57	down
RBBP8NL	A_73_P074141	0.0242 45	4.0281 76	down
RBFOX3	A_73_114878	0.0273 02	2.5159 84	down
REN	A_73_P374571	0.0301 21	8.0924 43	down
RHBDD2	A_73_P368621	0.0222 83	2.0465 27	down
RICTOR	A_73_107154	0.0167 53	2.0189 5	down

RIMBP2	A_73_P070716	0.0320 15	4.3143 09	down
RIN2	A_73_116597	0.0188 04	2.7789 79	down
RIN2	A_73_P073821	0.0475 23	2.0719 46	down
RNF187	A_73_P083636	0.0032 32	2.0989 19	down
RNF43	A_73_P064646	0.0332 55	3.0495 84	down
RRAGB	A_73_106742	0.0204 31	2.8034 89	down
RTN4RL1	A_73_115822	0.0191 05	4.2091 97	down
SAMD3	A_73_114246	0.0292 6	2.4760 33	down
SCIN	A_73_102891	0.0315 65	2.3167 31	down
SCNN1G	A_73_118265	0.0481 06	21.646 11	down
SCRG1	A_73_113225	0.0413 25	6.3503 9	down
SEC24C	A_73_102287	0.0216 58	2.3933 83	down
SEMA3E	A_73_P088406	0.0346 06	3.0948 58	down
SEMA6D	A_73_P312866	0.0081 11	3.2126 49	down
SEMA6D	A_73_P127236	0.0149	3.0589	down

		54	23	
SEMA6D	A_73_P080201	0.0083	2.8687	down
		79	72	
SERTAD4	A_73_114234	0.0328	9.4764	down
		44	84	
SERTAD4	A_73_P354131	0.0435	9.3538	down
		14	49	
SLC12A9	A_73_105856	0.0418	2.7356	down
		52	22	
SLC22A23	A_73_P403141	0.0149	3.7792	down
		64	9	
SLC22A23	A_73_P036786	0.0396	6.5346	down
		2	54	
SLC27A1	A_73_103064	0.0061	2.6425	down
		64	2	
SLC3A2	A_73_P191102	0.0175	3.3544	down
		2	11	
SLC44A3	A_73_101260	0.0160	4.2440	down
		26	1	
SLC44A3	A_73_P043121	0.0138	7.2479	down
		15	86	
SLF1	A_73_115022	0.0297	2.7583	down
		41	91	
SLF1	A_73_P286691	0.0383	2.5509	down
		47	67	
SMIM19	A_73_104306	0.0266	2.0106	down
		88	4	
SMOC1	A_73_P040916	0.0239	6.1983	down
		67	45	

SNX30	A_73_P486613	0.0283 17	2.2171 32	down
SPACA9	A_73_109280	0.0018 07	2.2550 42	down
SRSF5	A_73_P258281	0.0244 1	2.2107 53	down
SRSF5	A_73_P348021	0.0164 04	2.2660 09	down
SSBP2	A_73_119608	0.0029 17	2.5656 71	down
ST7L	A_73_P049606	0.0260 43	2.2404 7	down
ST7L	A_73_P397431	0.0034 62	2.0865 72	down
SYNDIG1	A_73_P235457	0.0433 97	19.462 44	down
SYNE2	A_73_101265	0.0376 31	2.9779 8	down
SYNE4	A_73_P067416	0.0396 05	3.2552 53	down
SYT1	A_73_P038861	0.0347 68	5.5926 09	down
SYT5	A_73_118964	0.0430 14	2.2170 06	down
TACR2	A_73_111376	0.0365 18	2.7864 44	down
TAF7	A_73_115203	0.0440 41	2.0422 08	down
TAP1	A_73_P035801	0.0107	2.4236	down

		02	54	
TAPBPL	A_73_P327251	0.0157 09	2.1582 17	down
TAPBPL	A_73_112102	0.0119 43	2.3298 91	down
TAPBPL	A_73_P374361	0.0377 45	2.2215 63	down
TAX1BP1	A_73_P040001	0.0458 12	2.1950 74	down
TAX1BP1	A_73_P263131	0.0487 74	2.1822 56	down
TCTN2	A_73_P070761	0.0116 41	2.0355 95	down
TES	A_73_109075	0.0309 46	2.1220 42	down
TEX14	A_73_P064656	0.0458 59	2.0953 62	down
TGFB2	A_73_P038731	0.0427 35	2.1446 97	down
THEM6	A_73_P034941	0.0238 6	3.7137 74	down
THRA	A_73_105992	0.0391 57	2.2006 4	down
TIMD4	A_73_P499663	0.0255 1	4.5083 27	down
TIMD4	A_73_100291	0.0241 73	4.6083 5	down
TLR3	A_73_P035191	0.0027 78	2.5641 43	down

TLR3	A_73_P369241	0.0124 37	2.8602 76	down
TMEM102	A_73_105491	0.0369 02	8.1987 83	down
TMEM116	A_73_P045706	0.0124 56	2.0170 99	down
TMEM144	A_73_102242	0.0181 53	5.0935 33	down
TMEM45B	A_73_114795	0.0205 38	3.0189 13	down
TMEM8B	A_73_P051916	0.0137 85	2.1440 14	down
TMPRSS4	A_73_101573	0.0145 74	10.092	down
TOB1	A_73_P046301	0.0079 34	5.0391 34	down
TOB1	A_73_102382	0.0082 45	4.3802 32	down
TOB1	A_73_P404139	0.0082 46	4.2946 42	down
TOB2	A_73_114407	0.0096 76	2.1613 39	down
TRD@	A_73_121104	0.0459 53	7.4367 01	down
TREM2	A_73_109844	0.0114 62	2.5871 91	down
TRPM2	A_73_P097066	0.0116 66	2.7396 19	down
TSC22D1	A_73_115161	0.0033	3.4433	down

		51	42	
TSKS	A_73_114976	0.0102 29	3.0793 25	down
TSPAN33	A_73_104602	0.0450 34	3.4289 9	down
TTR	A_73_100760	0.0268 01	6.5540 35	down
TTR	A_73_P459931	0.0388 76	7.4704 81	down
TUBA1D	A_73_115871	0.0234 14	4.4878 7	down
TXK	A_73_P087596	0.0239 63	4.0755 72	down
TXK	A_73_117302	0.0410 27	5.8922 47	down
USH1C	A_73_P032296	0.0196 95	4.0467 2	down
VAMP1	A_73_118873	0.0469 15	2.1026 85	down
WARS	A_73_P069586	0.0454 88	3.3605 54	down
WARS	A_73_P261866	0.0315 82	3.3214 66	down
WARS	A_73_P069581	0.0398 79	3.5600 67	down
WBP1	A_73_109712	0.0221 79	2.0148 04	down
WNK2	A_73_P360546	0.0231 64	3.0914 61	down

WNT5B	A_73_P091651	0.0101 95	3.3318 13	down
XCL1	A_73_105913	0.0245 58	9.2846 9	down
YDJC	A_73_P035746	0.0232 37	2.2468 62	down
ZC3H6	A_73_P442376	0.0292 05	2.3424 61	down
ZCCHC18	A_73_P104051	0.0173 5	7.2145 09	down
ZDHHC1	A_73_P067146	0.0361 17	2.4640 14	down
ZFP3	A_73_P051721	0.0047 91	2.3393 27	down
ZFP41	A_73_105483	0.0438 2	2.1555 21	down
ZFP62	A_73_P378931	0.0489 86	2.6258 74	down
ZFP62	A_73_P084766	0.0022 67	2.3147 64	down
ZFP62	A_73_P137491	4.06E- 04	2.8231 73	down
ZKSCAN4	A_73_P461776	0.0013 31	2.0111 58	down
ZNF22	A_73_P059451	0.0384 53	3.7462 65	down
ZNF22	A_73_P211152	0.0416 78	3.4347 48	down
ZNF22	A_73_P030021	0.0445	3.3213	down



		65	83	
ZNF274	A_73_P050866	0.0441 93	2.1831 1	down
ZNF331	A_73_P297281	0.0341 98	2.6669 02	down
ZNF345	A_73_P042671	0.0162 02	2.0043 68	down
ZNF362	A_73_119915	6.25E- 04	2.4076 04	down
ZNF48	A_73_108110	0.0237 82	2.1320 23	down
ZNF502	A_73_P050616	0.0120 93	2.4598 7	down
ZNF613	A_73_109748	0.0069 48	2.1254 67	down
ZNF683	A_73_P165447	0.0201 68	7.0850 03	down
ZSCAN21	A_73_111668	0.0198 52	2.0235 93	down

S5 miRNA vs mRNA

m	b	l	s	F	l	p	p	u	S	S	S	S	S	S	S	L	G	P	p	F	u	A	B	C	A	B	C
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				e					M	r	P	r	P	r								e	e	e	e	e	e
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0	0	1	3	7	7	1	8						6	4	G		7	_	6	2		0	1	1	2	8	6
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0	0	1	3	7	7	1	8					6	4	G	2	-	9	4		0	7	3	8	1	6		
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0	0	8	6	7	8	0	9					8	0	A	C	3	2	9	n	9	9	6	3	9	6	6	
0	0	1	3	7	7	1	8					6	4	G	1	-	3	8		3	9	7	1	5	8		
0	7	8	4	4	8	5	3					5	0	C		P	9	3		2	1	3	2	9	7	7	
1	5	6	8		4	5	3					7	4	A		0	6	4		9	9	5	8	6	9	9	































A	1	1	3	2	4	0	0	U	0	0	0	0	0	1	G	2	C	A	0	2	d	5.	5.	5.	3.	4.	4.
C	5	.	.	5	.	.	.	p					.	7	T	4	D	_	.	.	o	0	6	3	5	2	2
_	.	4	1	.	6	0	0						5	.	G	7	7	7	0	5	w	2	8	3	4	8	2
0	0	8	6	7	8	0	9						8	0	A	2	3	0	1	n	6	5	4	3	9	8	
0	0	1	3	7	7	1	8						6	4	G		_	7	1		9	5	7	1	1	7	
0	7	8	4	4	8	5	3						5	0	C		P	3	7		2	5	3	9	0	8	
1	5	6	8		4	5	3						7	4	A		0	0	8		2	5	5		7	2	
6	7	1	4		5	9	3						0	1	G		8	5	1								
0													2	3	G		6										
.													4	2	T		3										
1															G		7										
_															G		1										
3															T												
0															G												
6															A												
3															G												
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															G												
A	1	1	3	2	4	0	0	U	0	0	0	0	0	1	G	2	W	A	0	3	d	5.	4.	5.	3.	3.	4.
C	5	.	.	5	.	.	.	p					.	7	T	4	N	_	.	.	o	1	8	5	0	2	2
_	.	4	1	.	6	0	0						5	.	G		K	7	0	0	w	4	0	0	4	5	6
0	0	8	6	7	8	0	9						8	0	A		2	3	2	9	n	0	6	0	0	7	4
0	0	1	3	7	7	1	8						6	4	G		_	3	1		2	2	9	8	2	4	











C	5	.	.	5	.	.	.	p					.	7	T	4	C	-	.	.	o	6	1	8	9	0	9	
-	.	4	1	.	6	0	0						5	.	G	4	G	7	0	3	w	6	0	9	7	5	3	
0	0	8	6	7	8	0	9						8	0	A		R	3	3	4	n	0	6	1	1	4	6	
0	0	1	3	7	7	1	8						6	4	G		2	-	3	8		3	3	3	7	9	0	
0	7	8	4	4	8	5	3						5	0	C		B	P	1	5		3	7	3	8	5	8	
1	5	6	8		4	5	3						7	4	A			0	6	0		2	3	8	6	1	5	
6	7	1	4		5	9	3						0	1	G			3	6	1								
0													2	3	G			2										
.													4	2	T			4										
1															G			2										
-															G			1										
3															T													
0															G													
6															A													
3															G													
															G													
															G													
															G													
															C													
															T													
															G													
															G													
A	1	1	3	2	4	0	0	U	0	0	0	0	0	1	G	2	A	A	0	2	d	4.	5.	5.	3.	2.	4.	
C	5	.	.	5	.	.	.	p					.	7	T	4	P	-	.	.	o	7	0	9	5	9	7	
-	.	4	1	.	6	0	0						5	.	G		O	7	0	8	w	7	9	5	3	8	1	
0	0	8	6	7	8	0	9						8	0	A		L	3	3	8	n	2	4	3	3	4	4	
0	0	1	3	7	7	1	8						6	4	G		3	-	4	5		1	3	0	8	4	6	
0	7	8	4	4	8	5	3						5	0	C		P	2	5		6	4	0	8	3	0		





















. 1 - 3 2 8 3												9 3	9 9	A G T G G G A T G T G G G G			6 4 1										
b t a - m i R - 1 9 6 b	3 6 .8 3 0 5 1 1 2 6 7 9	0 .2 .3 0 9 2 7 9 1	- .1 .3 0 0 8 6 9 1	- .1 .0 6 8 3 6 4 9	0 .7 3 0 6 3 1 8 4	0 .0 7 0 3 6 1 9 4	D o w n 6 4 9 7 1 2 8 8	2 4 . 2 6 4 9 	1 3 .0 8 5 6 3 9 0 4 0 8	2 3 .4 5 7 2 8 8	2 4 .1 4 5 6 9 	4 1 .5 0 6 6 9 3 1 9 8	1 1 .5 6 9 4 6 5 7	T A G G T A G T C C T G T	2 3	P A P P A 2 4 9 0 5 7 3	A _ 7 3 _ 9 3 3 6 2	0 .1 0 1 2 9 9 1 9 2	u p 8 8 0 2 5 5 6	4. 8 6 0 0 2 5 5 1	5. 0 6 0 0 3 4 4 1	4. 6 2 0 0 0 5 3 7	6. 2 6 7 3 0 6 2 7 4	6. 0 7 3 0 6 2 7 4 6	5. 4 9 0 8 6 7 3 0 6 8 2 7 6		



b	2	0	2	6	2	0	0	U	0	0	3	1	2	2	A	2	K	A	0	2	d	5.	5.	5.	4.	4.	4.
t	5	.	.	.	.	.	.	p	.	.	.	.	1	A	2	I	_	.	.	o	7	2	6	5	2	4	
a	.	9	6	3	6	0	3		4	8	3	5	.	C		F	7	0	2	w	7	8	7	5	5	2	
-	1	9	8	3	6	0	2		0	1	3	4	5	A		1	3	0	4	n	7	7	4	6	2	9	
m	8	1	7	5	3	7	6		7	6	2	1	4	G		3	_	3	5		1	5	6	3	8	6	
i	5	1	2	2	3	2	9		7	0	1	8	5	C		B	P	2	1		2	4	9	5	9	3	
R	3	2	5	3	9	0	3		6	7	5	0	3	A			0	2	7		4	7	8	7	2	9	
-	5	2	6	2	7	4	1		1	0	5	4	5	G			8	8	4								
2									9	0	9	3	0	T			5										
1									1	0	6	7	0	C			8										
-									1	5	1	2	2	G			6										
3														A			6										
p														T													
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														C													
														T													
														G													
b	2	0	-	0	-	0	0	D	1	9	3	1	3	1	A	2	I	A	0	2	u	3.	4.	4.	5.	5.	5.
t	3	.	2	.	1	.	.	o	1	1	6	9	2	1	G	1	T	_	.	.	p	8	2	4	0	6	6
a	0	5	.	3	.	0	2	w	3	.	.	.	.	.	G		G	7	0	3		4	2	1	0	0	3
-	.	8	7	2	6	0	8	n	.	5	4	0	4	7	C		B	3	0	7		4	9	1	1	1	2
m	8	4	4	8	0	5	8		8	4	4	3	5	5	A		1	_	2	8		5	8	7	8	6	7
i	2	8	8	1	7	9	9		7	2	3	0	6	2	A		B	1	5	4		9	1	8	3	6	4
R	0	4	3	9	3	8	0		9	5	4	7	8	0	G		P	0	8	5			6	2	7	7	8

















b	3	1	-	0	-	0	0	D	2	4	2	0	0	2	G	2	X	A	0	1	u	1.	3.	2.	6.	7.	5.
t	7	.	1	.	2	.	.	o	.	1	.	.	.	.	C	1	I	_	.	6	p	9	1	9	3	9	7
a	.	1	.	2	.	0	7	w	2	.	0	3	3	3	C	R	7	0	.			2	2	1	9	0	5
-	7	0	9	1	2	4	4	n	0	1	9	8	9	5	C	P	3	2	3			0	0	6	3	2	2
m	1	6	9	6	1	5	6		5	8	8	0	1	0	C	1	_	1	3			7	5	6	5	2	1
i	3	0	8	0	0	6	6		9	3	8	6	0	4	T		P	7	6			6	1	5	3	7	2
R	3	0	8	2	7	2	6		0	9	3	1	4	0	G		1	2	1			5	3	6	4	3	4
-		4	3	8	1	7	4		6	5	8	5	6	1	G		0	5	9								
3									4	3	5	9	8	8	G		5										
3									8	0	0	8	2	2	C		6										
1										2	3	9	6	1	C		1										
-															T		6										
3															A												
p															T												
															C												
															C												
															T												
															A												
															G												
															A												
															A												
b	3	1	-	0	-	0	0	D	2	4	2	0	0	2	G	2	N	A	0	1	u	3.	2.	4.	7.	5.	6.
t	7	.	1	.	2	.	.	o	.	1	.	.	.	.	C	1	K	_	.	0	p	0	5	0	5	7	4
a	.	1	.	2	.	0	7	w	2	.	0	3	3	3	C	A	7	0	.			5	3	1	8	2	4
-	7	0	9	1	2	4	4	n	0	1	9	8	9	5	C	I	3	3	4			2	8		9	6	9
m	1	6	9	6	1	5	6		5	8	8	0	1	0	C	N	_	1	7			3	4		7	4	6
i	3	0	8	0	0	6	6		9	3	8	6	0	4	T	1	P	2	1			9	3		6	4	1
R	3	0	8	2	7	2	6		0	9	3	1	4	0	G		0	8	0			7	6		3	7	5
-		4	3	8	1	7	4		6	5	8	5	6	1	G		9	4	2								











															A												
															A												
															A												
															A												
b	3	1	-	0	-	0	0	D	2	4	2	0	0	2	G	2	S	A	0	2	u	8.	8.	7.	1	9.	8.
t	7	.	1	.	2	.	.	o	.	1	.	.	.	.	C	1	L	_	.	.	p	0	3	8	0.	8	8
a	.	1	.	2	.	0	7	w	2	.	0	3	3	3	C		C	7	0	9		1	8	6	2	1	8
-	7	0	9	1	2	4	4	n	0	1	9	8	9	5	C		O	3	4	3		3	2	6	1	6	4
m	1	6	9	6	1	5	6		5	8	8	0	1	0	C		2	_	6	1		8	3	4	7	0	2
i	3	0	8	0	0	6	6		9	3	8	6	0	4	T		A	1	6	4		6	2	4	0	5	7
R	3	0	8	2	7	2	6		0	9	3	1	4	0	G		1	0	0	0		5	6	4	8	5	6
-		4	3	8	1	7	4		6	5	8	5	6	1	G			1	8	6							
3									4	3	5	9	8	8	G			4									
3									8	0	0	8	2	2	C			9									
1									2	3	9	6	1		C			5									
-																											
3																											
p																											
b	3	1	-	0	-	0	0	D	2	4	2	0	0	2	G	2	C	A	0	2	u	8.	8.	8.	9.	1	9.
t	7	.	1	.	2	.	.	o	.	1	.	.	.	.	C	1	O	_	.	.	p	6	9	9	6	0.	8
a	.	1	.	2	.	0	7	w	2	.	0	3	3	3	C		L	7	0	3		4	5	8	9	7	5
-	7	0	9	1	2	4	4	n	0	1	9	8	9	5	C		4	3	4	2		9	5	9	3	0	2
m	1	6	9	6	1	5	6		5	8	8	0	1	0	C		A	_	5	5		3	4	5		0	7
i	3	0	8	0	0	6	6		9	3	8	6	0	4	T		2	1	5	2		8	2	2		8	1

































1 - 4 7 2 7												3	G G A G G T C T		6																					
A C - 0 0 0 1 3 6 1 1 - 4 7 2 7	1 9 . 1 7 1 7 3 8 1 . 1 - 4 7 2 7	1 . 4 7 1 6 9 8 1 . 1 - 4 7 2 7	3 . 2 1 0 7 6 9 8 1 . 1 - 4 7 2 7	2 . 7 4 2 5 7 3 4 9 . 1 - 4 7 2 7	0 . 0 2 5 1 6 2 9 4 . 1 - 4 7 2 7	0 . 0 0 5 1 2 3 4 . 1 - 4 7 2 7	U p	0 .	0 .	0 .	0 .	0 .	2 2 1 9 5 2 8 3 4 1 3 3 G G A G G T C T	1 8 F O X 3 1 4 8 7 3 3 G G A G G T C T	R B 7 3 X 1 1 4 8 7 3 3 G G A G G T C T	A - 7 2 1 3 0 8 2 4 8 7 3 3 G G A G G T C T	0 . 0 5 7 3 9 2 4 8 7 3 3 G G A G G T C T	2 . 5 2 1 9 5 9 4 2 4 8 7 3 3 G G A G G T C T	d o w n 7 0 5 9 7 5 4 8 7 3 3 G G A G G T C T	5. 7 2 9 7 5 4 . . . 3 5 5 4 . . . 6 4 2 5 5 8 7 3 3 G G A G G T C T	7. 2 5 9 0 6 5 5 4 . . . 7 4 2 5 5 8 7 3 3 G G A G G T C T	6. 6 5 9 1 6 9 4 . . . 8 7 3 3 G G A G G T C T	4. 7 1 3 5 5 4 . . . 6 4 2 5 5 8 7 3 3 G G A G G T C T	5. 4 5 3 6 1 3 5 5 4 . . . 8 7 3 3 G G A G G T C T	5. 5 2 2 3 8 8 . . . 6 4 2 5 5 8 7 3 3 G G A G G T C T											
A C - 0 0 0 1 3 6 1 1 - 4 7 2 7	1 9 . 4 7 1 6 9 8 1 . 1 - 4 7 2 7	1 . 4 7 1 6 9 8 1 . 1 - 4 7 2 7	3 . 2 1 0 7 6 9 8 1 . 1 - 4 7 2 7	4 . 7 4 2 5 1 6 2 9 4 . 1 - 4 7 2 7	0 . 0 2 5 1 6 2 9 4 . 1 - 4 7 2 7	0 . 0 0 5 1 6 2 9 4 . 1 - 4 7 2 7	U p	0 .	0 .	0 .	0 .	0 .	2 2 1 9 5 2 8 3 4 1 3 3 G G A G G T C T	1 8 X 7 3 1 4 8 7 3 3 G G A G G T C T	H O 7 0 1 w 3 5 5 8 7 3 3 G G A G G T C T	A - 7 2 1 3 0 8 2 4 8 7 3 3 G G A G G T C T	0 . 0 5 7 3 9 2 4 8 7 3 3 G G A G G T C T	2 . 5 2 1 9 5 9 4 2 4 8 7 3 3 G G A G G T C T	d o w n 7 0 5 9 7 5 4 . . . 6 4 2 5 5 8 7 3 3 G G A G G T C T	6. 8 4 5 5 4 . . . 8 7 3 3 G G A G G T C T	7. 4 2 5 5 8 7 3 3 G G A G G T C T	7. 5 5 4 . . . 8 7 3 3 G G A G G T C T	5. 9 1 6 9 4 . . . 8 7 3 3 G G A G G T C T	6. 5 3 6 1 3 5 5 4 . . . 8 7 3 3 G G A G G T C T	5. 7 6 0 6 . . . 8 7 3 3 G G A G G T C T											

































C	4	.	.	1	.	.	.	p	.	.	.	.	8	T	2	B	-	.	.	o	7	7	9	4	1	6	
-	.	2	7	.	5	0	2		2	1	1	3	.	G	X	7	0	3	w	6	7	9	8	8	2		
0	6	8	5	7	5	0	8		0	9	9	9	0	G	O	3	2	4	n	1	0	9	6	9	7		
0	7	8	5	2	1	5	8		3	0	0	1	0	G	4	-	3	6		8	3	8	8	4	1		
0	2	8	6	6	7	8	9		8	8	3	0	8	G	4	1	6	9		3		1	8	2	2		
1	1	9	2	4		5	0		8	0	0	4	9	G		1	2	2		4		5	8	5	7		
6		1	4	9		8	4		0	3	7	6	5	C		5	8	9									
9									9	5	9	8	5	C		3											
.									5		9	2	0	G		6											
1									6		4	6	3	G		9											
-														C													
1														G													
2														G													
2														C													
2														G													
7														G													
														C													
														G													
														C													
														G													
A	2	1	2	1	3	0	0	U	0	0	0	0	0	2	C	2	Z	A	0	2	d	7.	8.	7.	6.	6.	6.
C	4	.	.	1	.	.	.	p	.	.	.	.	8	T	2	N	-	.	.	o	4	0	7	1	7	9	
-	.	2	7	.	5	0	2		2	1	1	3	.	G	F	7	0	1	w	4	0	1	5	7	6		
0	6	8	5	7	5	0	8		0	9	9	9	0	G	4	3	2	3	n	8	4	3	2	4	2		
0	7	8	5	2	1	5	8		3	0	0	1	0	G	8	-	3	2		5	2	6	6	8	2		
0	2	8	6	6	7	8	9		8	8	3	0	8	G		1	7	0		9	3	1	7	4	5		
1	1	9	2	4		5	0		8	0	0	4	9	G		0	8	2			8	6	6	5	6		
6		1	4	9		8	4		0	3	7	6	5	C		8	2	3									





A	2	1	2	1	3	0	0	U	0	0	0	0	0	2	C	2	Y	A	0	2	d	8.	8.	7.	6.	6.	6.
C	4	.	.	1	.	.	.	p	.	.	.	.	8	T	2	D	_	.	.	o	0	0	6	8	5	7	
_	.	2	7	.	5	0	2		2	1	1	3	.	G		J	7	0	2	w	2	5	5	6	6	9	
0	6	8	5	7	5	0	8		0	9	9	9	0	G		C	3	2	4	n	3	0	5	9	1	3	
0	7	8	5	2	1	5	8		3	0	0	1	0	G		_	3	6			7	1	1	7	6	9	
0	2	8	6	6	7	8	9		8	8	3	0	8	G		P	2	8			8	8	6	7	9	2	
1	1	9	2	4		5	0		8	0	0	4	9	G		0	3	6			8	2		2	6	7	
6		1	4	9		8	4		0	3	7	6	5	C		3	7	2									
9									9	5	9	8	5	C		5											
.									5		9	2	0	G		7											
1									6		4	6	3	G		4											
_														C		6											
1														G													
2														G													
2														C													
2														G													
7														G													
														C													
														G													
														C													
														G													
A	2	1	2	1	3	0	0	U	0	0	0	0	0	2	C	2	N	A	0	1	d	1	1	1	8.	8.	1
C	4	.	.	1	.	.	.	p	.	.	.	.	8	T	2	G	_	.	6	o	2.	4.	4.	7	8	1.	
_	.	2	7	.	5	0	2		2	1	1	3	.	G		F	7	0	.	w	3	5	6	0	8	8	
0	6	8	5	7	5	0	8		0	9	9	9	0	G		R	3	4	0	n	3	3	1	4	6	8	
0	7	8	5	2	1	5	8		3	0	0	1	0	G		_	3	2			5	1	1	6	0	1	
0	2	8	6	6	7	8	9		8	8	3	0	8	G		1	3	1			8	1	3	0	6	9	
1	1	9	2	4		5	0		8	0	0	4	9	G		0	8	2			3	3	7	2		2	

































															C												
A	2	1	2	1	3	0	0	U	0	0	0	0	0	2	C	2	C	A	0	2	d	1	1	1	1	1	1
C	4	.	.	1	.	.	.	p	.	.	.	.	8	T	2	T	_	.	.	o	2.	2.	3.	1.	1.	2.	
_	.	2	7	.	5	0	2		2	1	1	3	.	G		C	7	0	0	w	7	6	2	9	6	0	
0	6	8	5	7	5	0	8		0	9	9	9	0	G		1	3	1	1	n	8	1	3	2	7	0	
0	7	8	5	2	1	5	8		3	0	0	1	0	G			_	2	0		4	0	3	2	7	6	
0	2	8	6	6	7	8	9		8	8	3	0	8	G			1	0	4		3	0	9	0	2	6	
1	1	9	2	4		5	0		8	0	0	4	9	G			1	9	1		5	6	5	8		1	
6		1	4	9		8	4		0	3	7	6	5	C			5	1	7								
9									9	5	9	8	5	C			9										
.									5		9	2	0	G			7										
1									6		4	6	3	G			6										
-														C													
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2														C													
2														G													
7														G													
														C													
A	2	1	2	1	3	0	0	U	0	0	0	0	0	2	C	2	H	A	0	2	d	8.	7.	7.	7.	6.	6.
C	4	.	.	1	.	.	.	p	.	.	.	.	8	T	2	1	_	.	.	o	6	6	8	2	9	6	







C	4	.	.	1	.	.	.	p	.	.	.	.	8	T	2	A	_	.	.	o	0	9	6	3	1	7	
_	.	2	7	.	5	0	2		2	1	1	3	.	G		D	7	0	7	w	9	9	2	8	8	6	
0	6	8	5	7	5	0	8		0	9	9	9	0	G		E	3	4	5	n	6	8	5	6	2	4	
0	7	8	5	2	1	5	8		3	0	0	1	0	G		2	_	0	5		1	9	4	6	5	0	
0	2	8	6	6	7	8	9		8	8	3	0	8	G		P	1	6			4	5	8	8	5	9	
1	1	9	2	4		5	0		8	0	0	4	9	G			1	2	9		4	4	3	1	6	1	
6		1	4	9		8	4		0	3	7	6	5	C			5	1	8								
9									9	5	9	8	5	C			0										
.									5		9	2	0	G			3										
1									6		4	6	3	G			2										
_														C			1										
1														G													
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7														G													
														C													
														G													
														C													
														G													
A	2	1	2	1	3	0	0	U	0	0	0	0	0	2	C	2	F	A	0	4	d	9.	1	1	6.	8.	1
C	4	.	.	1	.	.	.	p	.	.	.	.	8	T	2	X	_	.	.	o	7	0.	1.	7	2	0.	
_	.	2	7	.	5	0	2		2	1	1	3	.	G		Y	7	0	6	w	5	5	3	3	6	0	
0	6	8	5	7	5	0	8		0	9	9	9	0	G		D	3	4	0	n	8	5	3	0	3	4	
0	7	8	5	2	1	5	8		3	0	0	1	0	G		6	_	8	9		2	3	8	3	0	2	
0	2	8	6	6	7	8	9		8	8	3	0	8	G			P	1	3		6	3	3	6	6	8	
1	1	9	2	4		5	0		8	0	0	4	9	G				4	2	0		9	3	4	2	5	7
6		1	4	9		8	4		0	3	7	6	5	C				3	9	7							







A	2	1	2	1	3	0	0	U	0	0	0	0	0	2	C	2	Z	A	0	2	d	1	1	1	1	1	1
C	4	.	.	1	.	.	.	p	.	.	.	.	8	T	2	S	_	.	.	o	1.	1.	1.	0.	0.	0.	
_	.	2	7	.	5	0	2		2	1	1	3	.	G	C	7	0	0	w	5	6	6	3	5	9		
0	6	8	5	7	5	0	8		0	9	9	9	0	G	A	3	1	2	n	4	8	4	6	4	1		
0	7	8	5	2	1	5	8		3	0	0	1	0	G	N	_	9	3		2	8	5	5	2	8		
0	2	8	6	6	7	8	9		8	8	3	0	8	G	2	1	8	5		6	7	1		2	6		
1	1	9	2	4		5	0		8	0	0	4	9	G	1	1	5	9		8	4	6		3			
6		1	4	9		8	4		0	3	7	6	5	C		1	2	3									
9									9	5	9	8	5	C		6											
.									5		9	2	0	G		6											
1									6		4	6	3	G		8											
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7														G													
														C													
A	2	1	2	1	3	0	0	U	0	0	0	0	0	2	C	2	K	A	0	2	d	7.	8.	9.	5.	7.	8.
C	4	.	.	1	.	.	.	p	.	.	.	.	8	T	2	I	_	.	.	o	9	7	7	6	3	6	
_	.	2	7	.	5	0	2		2	1	1	3	.	G	A	7	0	9	w	4	6	2	8	2	8		
0	6	8	5	7	5	0	8		0	9	9	9	0	G	A	3	4	9	n	4	5	7	1	3	3		
0	7	8	5	2	1	5	8		3	0	0	1	0	G	1	_	7	6		9	5	3	4	5	6		
0	2	8	6	6	7	8	9		8	8	3	0	8	G	2	P	7	1		5	8	3	4	1	1		
1	1	9	2	4		5	0		8	0	0	4	9	G	1	0	9	2			7	3	8	4	7		





















3															G																									
A	1	1	2	1	3	0	0	U	0	0	0	0	0	1	G	2	L	A	0	3	d	5.	4.	6.	3.	3.	4.													
C	0	.	.	3	.	.	.	p					1	G	2	Y	_	.	.	o	0	8	6	1	8	4														
-	.	4	6	.	8	0	3					1	1	1	G	P	7	0	1	w	0	5	0	8	8	0														
0	6	4	3	9	0	0	2					9	9	9	9	G	D	3	4	5	n	4	3	0	9	9	7													
0	7	3	6	8	5	8	6					0	0	5	4	G	1	_	4	3	0	2	6	8	6	9														
0	3	3	6	3	6	3	9					8	3	5	7	C	P	8	3	6	7	8	3	0	3															
1	4	7	6	8	8	7	3					0	0	2	8	C	0	9	5	7	8	3		4	3															
7	1	3	2	1	6	3	1					3	7	3	7	G	3	5	4																					
0												5	9	4	5	G	9																							
.													9	1	9	C	4																							
1												4	3	2	G	2																								
-															G	1																								
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															G																									
															C																									
A	1	1	2	1	3	0	0	U	0	0	0	0	0	1	G	2	M	A	0	2	d	1	1	1	9.	9.	1													

C	0	.	.	3	.	.	.	p			.	.	.	1	G	2	O	-	.	.	o	1.	1.	1.	3	8	0.
-	.	4	6	.	8	0	3				1	1	1	.	G		B	7	0	8	w	0	5	6	4	7	5
0	6	4	3	9	0	0	2				9	9	9	9	G		3	3	1	5	n	8	6	3	7	3	2
0	7	3	6	8	5	8	6				0	0	5	4	G		B	-	7	5		9	2	5	3	2	6
0	3	3	6	3	6	3	9				8	3	5	7	C			1	4	1		5	7	8	5	9	8
1	4	7	6	8	8	7	3				0	0	2	8	C			1	9	3		6	8	9	8	5	9
7	1	3	2	1	6	3	1				3	7	3	7	G			1	2	4							
0											5	9	4	5	G			2									
.												9	1	9	C			2									
1												4	3	2	G			8									
-															G												
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3															G												
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															G												
															C												
A	1	1	2	1	3	0	0	U	0	0	0	0	0	1	G	2	R	A	0	2	d	5.	7.	6.	4.	5.	5.
C	0	.	.	3	.	.	.	p			.	.	.	1	G	2	B	-	.	.	o	7	2	6	7	4	5
-	.	4	6	.	8	0	3				1	1	1	.	G		F	7	0	5	w	9	2	5	1	5	2
0	6	4	3	9	0	0	2				9	9	9	9	G		O	3	2	1	n	0	9	9	3	0	2
0	7	3	6	8	5	8	6				0	0	5	4	G		X	-	7	5		7	0	6	6	1	3
0	3	3	6	3	6	3	9				8	3	5	7	C			3	1	3	9	5	5	9	1	3	8
1	4	7	6	8	8	7	3				0	0	2	8	C			1	0	8		7	5	4	5	5	8
7	1	3	2	1	6	3	1				3	7	3	7	G			4	2	4							





A	1	1	2	1	3	0	0	U	0	0	0	0	0	1	G	2	S	A	0	1	d	8.	7.	7.	3.	1.	5.	
C	0	.	.	3	.	.	.	p	.	.	.	.	1	G	2	Y	_	.	9	o	0	7	9	7	8	2		
_	.	4	6	.	8	0	3					1	1	1	.	G	N	7	0	.	w	0	2	0	4	3	0	
0	6	4	3	9	0	0	2					9	9	9	9	G	D	3	4	4	n	9	4	0	9	3	4	
0	7	3	6	8	5	8	6					0	0	5	4	G	I	_	3	6		8	4	1	0	2	2	
0	3	3	6	3	6	3	9					8	3	5	7	C	G	P	3	2		8	2	9	8	8	7	
1	4	7	6	8	8	7	3					0	0	2	8	C	1	2	9	4		9	7	1	9		5	
7	1	3	2	1	6	3	1					3	7	3	7	G		3	7	4								
0												5	9	4	5	G		5										
.													9	1	9	C		4										
1													4	3	2	G		5										
-																G		7										
1																C												
2																G												
8																G												
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3																G												
																G												
																C												
																G												
A	1	1	2	1	3	0	0	U	0	0	0	0	0	1	G	2	C	A	0	2	d	1	1	1	1	1	1	
C	0	.	.	3	.	.	.	p	.	.	.	.	1	G	2	D	_	.	.	o	2.	2.	2.	0.	1.	0.		
_	.	4	6	.	8	0	3					1	1	1	.	G	K	7	0	8	w	6	9	2	6	8	9	
0	6	4	3	9	0	0	2					9	9	9	9	G	N	3	3	2	n	9	7	1	6	1	1	
0	7	3	6	8	5	8	6					0	0	5	4	G	1	_	0	3		7	5	9	7	5	6	
0	3	3	6	3	6	3	9					8	3	5	7	C	C	P	9	8		9	3	5	2	9	7	
1	4	7	6	8	8	7	3					0	0	2	8	C		0	4	1		7	9	1		8	5	











































C	0	.	.	3	.	.	.	p			.	.	.	1	G	2	N	-	.	.	o	0	7	2	4	5	5
-	.	4	6	.	8	0	3				1	1	1	.	G		A	7	0	2	w	0	5	9	9	3	9
0	6	4	3	9	0	0	2				9	9	9	9	G		S	3	4	0	n	7	1	4	7	9	6
0	7	3	6	8	5	8	6				0	0	5	4	G		E	-	0	4		1	7	2	0	0	0
0	3	3	6	3	6	3	9				8	3	5	7	C		1	P	6	3		2	7	9	6	6	1
1	4	7	6	8	8	7	3				0	0	2	8	C			0	2	4		8	6	2	6	4	4
7	1	3	2	1	6	3	1				3	7	3	7	G			4	1	6							
0											5	9	4	5	G			8									
.												9	1	9	C			3									
1												4	3	2	G			3									
-															G			6									
1															C												
2															G												
8															G												
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3															G												
															G												
															C												
															G												
															C												
A	1	1	2	1	3	0	0	U	0	0	0	0	0	1	G	2	B	A	0	2	d	1	1	1	1	1	1
C	0	.	.	3	.	.	.	p			.	.	.	1	G	2	C	-	.	.	o	4.	5.	5.	2.	3.	4.
-	.	4	6	.	8	0	3				1	1	1	.	G		A	7	0	8	w	2	2	4	8	2	2
0	6	4	3	9	0	0	2				9	9	9	9	G		M	3	2	6	n	7	2	4	2	7	8
0	7	3	6	8	5	8	6				0	0	5	4	G			-	1	1		3	0	1	4	8	2
0	3	3	6	3	6	3	9				8	3	5	7	C			1	9	7		5	9	7	5	8	2
1	4	7	6	8	8	7	3				0	0	2	8	C			1	4	3		6	9	7	9		5
7	1	3	2	1	6	3	1				3	7	3	7	G			8	3	8							





A	1	1	2	1	3	0	0	U	0	0	0	0	0	1	G	2	I	A	0	2	d	5.	5.	4.	3.	3.	3.
C	0	.	.	3	.	.	.	p	.	.	.	.	1	G	2	L	_	.	.	o	1	0	7	8	6	9	
_	.	4	6	.	8	0	3					1	1	1	.	G	1	7	0	2	w	5	5	0	2	7	6
0	6	4	3	9	0	0	2					9	9	9	9	G	2	3	3	1	n	2	1	0	0	7	7
0	7	3	6	8	5	8	6					0	0	5	4	G	R	_	1	3		9	0	3	2	4	1
0	3	3	6	3	6	3	9					8	3	5	7	C	B	1	0	7		2	7	3	3	6	9
1	4	7	6	8	8	7	3					0	0	2	8	C	1	0	8	3		5	1	5	2	4	
7	1	3	2	1	6	3	1					3	7	3	7	G		4	9	4							
0												5	9	4	5	G		1									
.													9	1	9	C		9									
1													4	3	2	G		4									
_																G											
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3																G											
																G											
																C											
A	1	1	2	1	3	0	0	U	0	0	0	0	0	1	G	2	K	A	0	2	d	5.	5.	5.	4.	4.	4.
C	0	.	.	3	.	.	.	p	.	.	.	.	1	G	2	I	_	.	.	o	7	2	6	5	2	4	
_	.	4	6	.	8	0	3					1	1	1	.	G	F	7	0	2	w	7	8	7	5	5	2
0	6	4	3	9	0	0	2					9	9	9	9	G	1	3	0	4	n	7	7	4	6	2	9
0	7	3	6	8	5	8	6					0	0	5	4	G	3	_	3	5		1	5	6	3	8	6
0	3	3	6	3	6	3	9					8	3	5	7	C	B	P	2	1		2	4	9	5	9	3
1	4	7	6	8	8	7	3					0	0	2	8	C		0	2	7		4	7	8	7	2	9











































C	0	.	.	3	.	.	.	p		.	.	.	1	G	2	F	-	.	.	o	5	0	1	0	0	4	
-	.	4	6	.	8	0	3			1	1	1	.	G		P	7	0	1	w	6	9	6	1	4	5	
0	6	4	3	9	0	0	2			9	9	9	9	G		4	3	4	5	n	3	9	9	7	0	0	
0	7	3	6	8	5	8	6			0	0	5	4	G		1	-	3	5		0	5	4	0	7	0	
0	3	3	6	3	6	3	9			8	3	5	7	C			1	8	5		9	3	0	9	7	5	
1	4	7	6	8	8	7	3			0	0	2	8	C			0	2	2		5	8	3		7	9	
7	1	3	2	1	6	3	1			3	7	3	7	G			5		1								
0										5	9	4	5	G			4										
.											9	1	9	C			8										
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														C													
A	1	1	2	1	3	0	0	U	0	0	0	0	0	1	G	2	I	A	0	4	d	5.	6.	6.	3.	3.	4.
C	0	.	.	3	.	.	.	p		.	.	.	1	G	2	L	-	.	.	o	1	0	3	5	5	1	
-	.	4	6	.	8	0	3			1	1	1	.	G		1	7	0	2	w	3	7	9	7	9	9	
0	6	4	3	9	0	0	2			9	9	9	9	G		7	3	1	3	n	7	4	8	3	6	3	
0	7	3	6	8	5	8	6			0	0	5	4	G		R	-	6	4		5	2	7	8	3	7	
0	3	3	6	3	6	3	9			8	3	5	7	C		E	P	5	5		8	5	1	3	7	7	
1	4	7	6	8	8	7	3			0	0	2	8	C			0	1	0		5	6	6		3	9	
7	1	3	2	1	6	3	1			3	7	3	7	G			6	2	2								





A	1	0	-	0	-	0	0	D	6	1	2	3	2	1	A	2	S	A	9	2	u	1	9.	9.	1	1	1	
C	4	.	3	.	3	.	.	o	7	1	.	.	.	.	G	2	Y	_	.	.	p	0.	8	5	1.	1.	1.	
_	1	9	.	1	.	0	0	w	.	4	0	2	7	9	C		K	7	4	7		3	2	8	7	1	1	
0	.	2	3	1	0	0	7	n	0	.	9	3	3	5	A			3	0	1		5	4	9	8	9	1	
0	5	5	2	8	7	0	9		0	7	8	5	7	8	G		_	E	8			7	2	7	9	6	4	
0	4	0	9	2	9	8	3		4	8	8	2	3	6	C		P	-	5			7	2	4	1	7	3	
1	9	7	3	6	8	7	2		4	4	3	3	2	6	A			0	0	2		8	3	6	7	5		
7	4	4		9	5	1	5		0	9	8	5	7	8	G			3	4									
1									9	7	5	9	7	1	T			0										
.									3	8	0	0	8	8	G			2										
1									3		3	6	5	4	T			5										
-															A			6										
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															T													
															C													
															T													
															G													
A	1	0	-	0	-	0	0	D	6	1	2	3	2	1	A	2	C	A	0	6	u	1	1	1	1	1	1	
C	4	.	3	.	3	.	.	o	7	1	.	.	.	.	G	2	F	_	.	.	p	0.	0.	0.	3.	3.	3.	
_	1	9	.	1	.	0	0	w	.	4	0	2	7	9	C		P	7	0	4		1	7	9	9	0	0	
0	.	2	3	1	0	0	7	n	0	.	9	3	3	5	A			3	3	5		6	9	2	0	3	1	
0	5	5	2	8	7	0	9		0	7	8	5	7	8	G		_	6	2			2	4	5	7	3	0	
0	4	0	9	2	9	8	3		4	8	8	2	3	6	C		P	6	2			2	8	2	6	8	1	
1	9	7	3	6	8	7	2		4	4	3	3	2	6	A			3	6	3		4		3	9	6	1	















































5														G													
8														G													
3														T													
0														C													
														T													
														T													
														T													
A	1	1	2	1	3	0	0	U	0	0	0	0	0	1	G	2	R	A	0	3	d	7.	6.	6.	5.	4.	5.
C	5	.	.	2	.	.	.	p	.	.	.	7	G	0	N	–	.	.	o	2	7	9	2	9	9	9	
–	.	4	5	.	5	0	3			3	1	.	G		F	7	0	0	w	4	1	9	0	5	6	6	
0	3	0	5	0	8	1	6			8	9	4	G		4	3	3	4	n	5	6	7	8	6	8	8	
0	1	4	2	0	5	0	5			1	5	3	G		3	–	3	9		7	5	2	1	9	6	6	
0	9	7	7	8	9	6	1			6	5	2	C			P	2	5		4	3	2	1	3	1	1	
1	3	5	6	6	9	8	4			0	2	1	G			0	5	8		5	3	2	9	2	2	2	
7		3	1	2	8	7	9			7	3	4	G			6	5	4									
3										0	4	6	G			4											
.										0	1	8	G			6											
1										1	3	4	G			4											
–													G			6											
1													A														
5													G														
8													G														
3													T														
0													C														
													T														
													T														
													T														
A	1	1	2	1	3	0	0	U	0	0	0	0	1	G	2	N	A	0	2	d	8.	9.	9.	7.	7.	8.	
C	5	.	.	2	.	.	.	p	.	.	.	7	G	0	R	–	.	.	o	4	2	6	1	0	4		



































































































































bta-miR-223	CCTGTCAGTTTGTCAAATACCCCA
bta-miR-31	GGAAGGCAAGATGCTGGCA
bta-miR-205	TCCTTCATTCCACCGGAGTCTG
bta-miR-145	GTCCAGTTTTCCAGGAATCCCT
bta-miR-132	TAACAGTCTACAGCCATGGTCGAAA
bta-miR-200b	GCTGACGGTGCTAATACTGCCT
bta-miR-196a	GCTGCGACCGTAGGTAGTTTCAT
bta-miR-184	TGGACGGAGAAGTATAAGGGTAAA
bta-S18(F)	CACCGAGGATGAGGTGGA
bta-S18(R)	TATTGGCGTGGATTCTGC

**S8 gene primer**

Gene	Primer	Size(bp)
$\beta$ -actin	F: 5'-ACATCCGCAAGGACCTCTA-3'	116
	R: 5'-TCTTCATTGTGCTGGGTGC-3'	
<i>CX3CL1</i>	F: 5'-TGCGGTCAGGCATCGTAT-3'	196
	R: 5'-GGCTGGGCGTATGGAAAC-3'	
<i>TLR8</i>	F: 5'-GCCAGGTGTAAATGGAACG-3'	100
	R: 5'-CTGAAAGCAGCATCGTCATC-3'	
<i>BOLA-DRB3</i>	F: 5'-GTATCATAAGGGCGAGTGTCA-3'	68
	R: 5'-GAAGTGTCTGTCCAGCAACC-3'	
<i>PTX3</i>	F: 5'-TATCGGTCCATAATGCTTG-3'	109
	R: 5'-TCTTTGAATCCCAGGTGC-3'	
<i>CSF3</i>	F: 5'-GACTTTGCCACGAACATCTG-3'	101
	R: 5'-TGGAAGGCTGAAGTGAAGGT-3'	
<i>SLC11A1</i>	F: 5'-GCCCTGTCTGTCTCCTTCC-3'	181
	R: 5'-TCACGCCTCCTTGGTAAAT-3'	
<i>BST1</i>	F: 5'-	130

	ACTGGCAAGAATCCAAACCAACCC- 3'	
	R: 5'- GCATTTCTGCAGGTCAGGCATGTT-3'	
<i>IL17A</i>	F: 5'-GGGTCAACCTAAACATCG-3'	176
	R: 5'-CACCTTCCCTTCAGCATT-3'	

**S9** Luciferase reporter

*Primer sequences(5'--3')	*The primer name
ccgctcgagTAATGCTTACTCTGCACCTT	IRAK2-up
TTGGAAAATGCACATCTTGTcgccgcgataaa	IRAK2-Down
TGATTCTTTTTTTTATTAAGTCAAGCA	IRAK2-overlap

**Table S10** Clean Reads

Sample	clean_reads
Sample_A-NC	3626627
Sample_A-S. aureus	5254640
Sample_B-NC	4904823
Sample_B-S. aureus	5114477
Sample_C-NC	5240994
Sample_C-S. aureus	5105510