miRNA	KEGG ID	KEGG e-value	gene symbol	Target gene ID	Orthology	KEGG pathway	GO term accession	GO term name	GO domain	GO term definition
gmo-miR-181a	K04433	4,4319E-141	map2k6	ENSGMOG00000000036		ko04010 MAPK signaling pathway	GO:0003674	ko04010 MAPK signaling pathway		
gmo-miR-146	K10847	5,9395E-118	xpa	ENSGMOG00000000063	ENSDARG00000038114	ko03420 Nucleotide excision repair	GO:0003677	DNA binding	MF	Any molecular function by which a gene product interacts selectively and non-covalently with DNA (deoxyribonucleic acid). [GOC:dph, GOC:jl, GOC:tb, GOC:vw]
gmo-miR-19a			Cnp	ENSGMOG00000000075	ENSDARG00000070822		GO:0004113			
gmo-miR-130b			Cnp	ENSGMOG00000000075	ENSDARG00000070822		GO:0004113			
gmo-miR-181a	K12796	1,5187E-17	Lrrc28	ENSGMOG00000000175	ENSDARG00000057477	ko04621 NOD-like receptor signaling pathway		ko04621 NOD-like receptor signaling pathway		
gmo-miR-19a			TMEM87A	ENSGMOG00000000308	ENSG00000103978		GO:0016021			
gmo-miR-19a	K08062	4,32678E-76	ANKRA2	ENSGMOG00000000317	ENSDARG00000035399	ko04612 Antigen processing and presentation	GO:0005515	ko04612 Antigen processing and presentation		
gmo-miR-206			pald	ENSGMOG00000000321	ENSDARG00000039352					
gmo-miR-206	K00602	0	ATIC	ENSGMOG00000000421	ENSDARG00000016706	ko01100 Metabolic pathways	GO:0003937	IMP cyclohydrolase activity	MF	Catalysis of the reaction: IMP + H2O = 5-formamido-1-(5-phosphoribosyl)imidazole-4-carboxamide." [EC:3.5.4.10],IEA,MF ENSGMOG00000000421,ENSGMOT00000000441, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene

										product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K12796	2,4099 2E-22	LRRC2	ENSGMOG0 0000000426	ENSDARG00 000087624	ko04621 NOD-like receptor signaling pathway		ko04621 NOD-like receptor signaling pathway		
gmo-miR-206	K01388	1,3895 7E-26	MMP23A	ENSGMOG0 0000000435	ENSDARG00 000043079	ko03320 PPAR signaling pathway	GO:00042 22	metalloendope ptidase activity	MF	Catalysis of the hydrolysis of internal, alpha-peptide bonds in a polypeptide chain by a mechanism in which water acts as a nucleophile, one or two metal ions hold the water molecule in place, and charged amino acid side chains are ligands for the metal ions. [GOC:mah, http://merops.sanger.ac.uk/about/glossary.htm#CATTYPE, http://merops.sanger.ac.uk/about/glossary.htm#ENDOPEPTIDASE]
gmo-miR-11240	K13764	4,8555 8E-33	KCNIP1	ENSGMOG0 0000000472	ENSDARG00 000034808	ko04744 Phototransduction	GO:00431 67	ion binding	MF	Interacting selectively and non-covalently with ions, charged atoms or groups of atoms. [GOC:jl]
gmo-miR-9	K12192	2,3524 E-103	CHMP2B	ENSGMOG0 0000000475	ENSDARG00 000068683	ko04144 Endocytosis	GO:00070 34	vacuolar transport	BF	The directed movement of substances into, out of or within a vacuole. [GOC:ai]
gmo-miR-206	K06087	1,3152 E-18	CLDN8	ENSGMOG0 0000000672	ENSXMAG0 0000019840	ko04530 Tight junction	GO:00160 21	integral component of membrane	CC	The component of a membrane consisting of gene products and protein complexes that have some part that penetrates at least one leaflet of the membrane bilayer. This component includes gene products that are buried in the bilayer with no exposure outside the bilayer. [GOC:dos, GOC:go_curators]
gmo-miR-206	K06067	1,5523 E-06	HDAC5	ENSGMOG0 0000000748	ENSDARG00 000075139	ko04110 Cell cycle	GO:00044 07	histone deacetylase activity	MF	Catalysis of the reaction: histone N6-acetyl-L-lysine + H2O = histone L-lysine + acetate. This reaction represents the removal of an acetyl group from a histone, a class of proteins

										complexed to DNA in chromatin and chromosomes. [EC:3.5.1.-, PMID:9893272]
gmo-miR-181a	K10652	2,9224 9E-08	LONRF2	ENSGMOG0 0000000799	ENSDARG00 000089138	ko04064 NF-kappa B signaling pathway	GO:00055 15	ko04064 NF-kappa B signaling pathway		
gmo-miR-181a	K06092	3,0269 6E-09	SNTA1	ENSGMOG0 0000000801	ENSDARG00 000090781	ko04390 Hippo signaling pathway	GO:00055 15	ko04390 Hippo signaling pathway		
gmo-miR-11240			TMEM22 2	ENSGMOG0 0000000961	ENSDARG00 000069589					
gmo-miR-146	K04459	5,8141 E-139	Dusp2	ENSGMOG0 0000000967	ENSDARG00 000036572	ko04010 MAPK signaling pathway	GO:00081 38	protein tyrosine/serine /threonine phosphatase activity	MF	Catalysis of the reactions: protein serine + H2O = protein serine + phosphate; protein threonine phosphate + H2O = protein threonine + phosphate; and protein tyrosine phosphate + H2O = protein tyrosine + phosphate." [GOC:mah],IEA,MF ENSGMOG00000000967,ENSGMOT00000001026, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-206	K00012	0	UGDH	ENSGMOG0 0000001036	ENSDARG00 000019838	ko01100 Metabolic pathways	GO:00036 74	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a			Erh	ENSGMOG0 0000001125	ENSDARG00 000032866		GO:00070 49			
gmo-miR-19a	K15730	6,3282 4E-92	PTGES3	ENSGMOG0 0000001184	ENSDARG00 000058831	ko01100 Metabolic pathways		ko01100 Metabolic pathways		

gmo-miR-9	K07199	4,5937E-148	Prkab1	ENSGMOG00000001403	ENSDARG00000044183	ko04068 FoxO signaling pathway	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000001403,ENSGMOT00000001519, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a			REEP5	ENSGMOG00000001465	ENSDARG00000052661					
gmo-miR-130b			REEP5	ENSGMOG00000001465	ENSDARG00000052661					
gmo-miR-192	K07297	0	ADIPOR1	ENSGMOG00000001524	ENSDARG00000002912	ko04152 AMPK signaling pathway	GO:0016021	integral component of membrane	CC	The component of a membrane consisting of gene products and protein complexes that have some part that penetrates at least one leaflet of the membrane bilayer. This component includes gene products that are buried in the bilayer with no exposure outside the bilayer. [GOC:dos, GOC:go_curators]
gmo-miR-181a			FAM60A	ENSGMOG00000001596	ENSDARG00000078118					
gmo-miR-130b	K03260	0,000109896	cdca8	ENSGMOG00000001665	ENSDARG00000043137	ko03013 RNA transport		ko03013 RNA transport		
gmo-miR-130b	K05018	1,5936E-13	CLCN6	ENSGMOG00000001687	ENSDARG00000032577	ko04966 Collecting duct acid secretion	GO:0005247	voltage-gated chloride channel activity	MF	Catalysis of the transmembrane transfer of a chloride ion by a voltage-gated channel. A voltage-gated channel is a channel whose open state is dependent on the voltage across the membrane in which it is embedded. [GOC:mtg_transport, ISBN:0815340729]

gmo-miR-146	K05018	1,5936 4E-13	CLCN6	ENSGMOG0 0000001687	ENSDARG00 000032577	ko04966 Collecting duct acid secretion	GO:00052 47	voltage-gated chloride channel activity	MF	Catalysis of the transmembrane transfer of a chloride ion by a voltage-gated channel. A voltage-gated channel is a channel whose open state is dependent on the voltage across the membrane in which it is embedded. [GOC:mtg_transport, ISBN:0815340729]
gmo-miR-181a	K00558	2,7593 4E-11	PWWP2B	ENSGMOG0 0000001770	ENSDARG00 000073817	ko01100 Metabolic pathways		ko01100 Metabolic pathways		
gmo-miR-181a			Tmbim4	ENSGMOG0 0000001863	ENSDARG00 000014361					
gmo-miR-192	K10500	4,1962 8E-33	ZNF362	ENSGMOG0 0000001892	ENSDARG00 000060900	ko04110 Cell cycle	GO:00468 72	metal ion binding	MF	Interacting selectively and non-covalently with any metal ion." [GOC:ai],IEA,MF ENSGMOG00000001892,ENSGMOT00000002074, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K09508	1,1580 2E-82	DNAJB2	ENSGMOG0 0000001949	ENSDARG00 000058644	ko04141 Protein processing in endoplasmic reticulum		ko04141 Protein processing in endoplasmic reticulum		
gmo-miR-181a	K05692	2,5547 E-78	ACTR3	ENSGMOG0 0000002043	ENSDARG00 000091138	ko04510 Focal adhesion		ko04510 Focal adhesion		
gmo-miR-9	K04608	0	Grm8	ENSGMOG0 0000002146	ENSDARG00 000076508	ko04724 Glutamatergic synapse	GO:00049 30	G-protein coupled receptor activity	MF	Combining with an extracellular signal and transmitting the signal across the membrane by activating an associated G-protein; promotes the exchange of GDP for GTP on the alpha subunit of a heterotrimeric G-protein complex. [GOC:bf, http://www.iuphar-db.org, Wikipedia:GPCR]

gmo-miR-130b	K05190	0	Gabrr3	ENSGMOG00000002156	ENSDARG00000027153	ko04080 Neuroactive ligand-receptor interaction	GO:0006810	ko04080 Neuroactive ligand-receptor interaction		
gmo-miR-19a			esco2	ENSGMOG00000002234	ENSDARG00000014685		GO:0000278			
gmo-miR-9	K04358	1,1936 2E-98	fgf4-b	ENSGMOG00000002238	ENSDARG00000068095	ko04010 MAPK signaling pathway	GO:0008083	growth factor activity	MF	The function that stimulates a cell to grow or proliferate. Most growth factors have other actions besides the induction of cell growth or proliferation." [ISBN:0815316194],IEA,MF ENSGMOG00000002238,ENSGMOT00000002456, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-130b	K04358	1,1936 2E-98	fgf4-b	ENSGMOG00000002238	ENSDARG00000068095	ko04010 MAPK signaling pathway	GO:0008083	growth factor activity	MF	The function that stimulates a cell to grow or proliferate. Most growth factors have other actions besides the induction of cell growth or proliferation." [ISBN:0815316194],IEA,MF ENSGMOG00000002238,ENSGMOT00000002456, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-9	K09341	2,5797 3E-19	dlx1a	ENSGMOG00000002250	ENSDARG00000013125		GO:0003677	DNA binding	MF	Any molecular function by which a gene product interacts selectively and non-covalently with DNA (deoxyribonucleic acid). [GOC:dph, GOC:jl, GOC:tb, GOC:vw]
gmo-miR-130b	K14685	0	slc40a1	ENSGMOG00000002288	ENSDARG00000000241	ko04978 Mineral absorption	GO:0005381	ko04978 Mineral absorption		

gmo-miR-146	K14404	2,8257E-172	cpsf4	ENSGMOG00000002330	ENSDARG00000020217	ko03015 mRNA surveillance pathway	GO:0046872	metal ion binding	MF	Interacting selectively and non-covalently with any metal ion." [GOC:ai],IEA,MF ENSGMOG00000002330,ENSGMOT00000002555, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-9	K05731	0,0027262	tmem170a	ENSGMOG00000002331	ENSDARG00000056628	ko04015 Rap1 signaling pathway				
gmo-miR-19a	K13758	1,14023E-06	UNC119	ENSGMOG00000002332	ENSDARG00000034453	ko00230 Purine metabolism		ko00230 Purine metabolism		
gmo-miR-206	K10858	0,000543127	KIAA0513	ENSGMOG00000002337	ENSDARG00000041599	ko03430 Mismatch repair				
gmo-miR-181a	K03729	4,5097E-128	BHLHE40	ENSGMOG00000002353	ENSDARG00000004060	ko04710 Circadian rhythm	GO:0003677	ko04710 Circadian rhythm		
gmo-miR-181a	K13126	0	Pabpc1	ENSGMOG00000002448	ENSDARG00000021140	ko03013 RNA transport	GO:0003676	nucleic acid binding	MF	Interacting selectively and non-covalently with any nucleic acid." [GOC:jl],IEA,MF ENSGMOG00000002448,ENSGMOT00000002689, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-206	K13126	0	Pabpc1	ENSGMOG00000002448	ENSDARG00000021140	ko03013 RNA transport	GO:0003676	nucleic acid binding	MF	Interacting selectively and non-covalently with any nucleic acid." [GOC:jl],IEA,MF ENSGMOG00000002448,ENSGMOT00000002689, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]

gmo-miR-206	K10456	2,2513 7E-93	KLHL8	ENSGMOG0 0000002584	ENSDARG00 000015344	ko04120 Ubiquitin mediated proteolysis	GO:00055 15	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000002584,ENSGMOT00000002817, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-9			SLITRK5	ENSGMOG0 0000002657	ENSDARG00 000074153					
gmo-miR-19a			SLITRK5	ENSGMOG0 0000002657	ENSDARG00 000074153					
gmo-miR-181a	K04459	3,8060 6E-05	CCDC120	ENSGMOG0 0000002686	ENSDARG00 000032856	ko04010 MAPK signaling pathway		ko04010 MAPK signaling pathway		
gmo-miR-9	K00591	7,3680 9E-06	METTL7A	ENSGMOG0 0000002688	ENSDARG00 000028478	ko01100 Metabolic pathways	GO:00081 68	methyltransfer ase activity	MF	Catalysis of the transfer of a methyl group to an acceptor molecule." [ISBN:0198506732],IEA,MF ENSGMOG00000002688,ENSGMOT00000002911, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-9	K11828	0	dlg4	ENSGMOG0 0000002859	ENSDARG00 000041926	ko04390 Hippo signaling pathway	GO:00055 15	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000002859,ENSGMOT00000003130, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene

										product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-11240	K11828	0	dlg4	ENSGMOG00000002859	ENSDARG00000041926	ko04390 Hippo signaling pathway	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000002859,ENSGMOT00000003130, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K02580	1,1054E-13	Osbpl1a	ENSGMOG00000003066	ENSDARG00000053746	ko04010 MAPK signaling pathway	GO:0005515	ko04010 MAPK signaling pathway		
gmo-miR-9	K00591	0,00639172	Mepce	ENSGMOG00000003093	ENSDARG00000059461	ko01100 Metabolic pathways	GO:0008168	methyltransferase activity	MF	Catalysis of the transfer of a methyl group to an acceptor molecule." [ISBN:0198506732],IEA,MF ENSGMOG00000003093,ENSGMOT00000003380, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K00591	0,00639172	Mepce	ENSGMOG00000003093	ENSDARG00000059461	ko01100 Metabolic pathways	GO:0008168	methyltransferase activity	MF	Catalysis of the transfer of a methyl group to an acceptor molecule." [ISBN:0198506732],IEA,MF ENSGMOG00000003093,ENSGMOT00000003380, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]

gmo-miR-192	K00591	0,00639172	Mepce	ENSGMOG00000003093	ENSDARG00000059461	ko01100 Metabolic pathways	GO:0008168	methyltransferase activity	MF	Catalysis of the transfer of a methyl group to an acceptor molecule." [ISBN:0198506732],IEA,MF ENSGMOG00000003093,ENSGMOT00000003380, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-9	K13347	2,23071E-86	PXMP2	ENSGMOG00000003113	ENSDARG00000003144	ko04146 Peroxisome	GO:0016021	integral component of membrane	CC	The component of a membrane consisting of gene products and protein complexes that have some part that penetrates at least one leaflet of the membrane bilayer. This component includes gene products that are buried in the bilayer with no exposure outside the bilayer. [GOC:dos, GOC:go_curators]
gmo-miR-9	K08187	5,42119E-30	SLC16A7	ENSGMOG00000003237	ENSDARG00000074923	ko04919 Thyroid hormone signaling pathway	GO:0055085	transmembrane transport	BF	The process in which a solute is transported from one side of a membrane to the other. [GOC:dph, GOC:jid]
gmo-miR-11240	K08187	5,42119E-30	SLC16A7	ENSGMOG00000003237	ENSDARG00000074923	ko04919 Thyroid hormone signaling pathway	GO:0055085	transmembrane transport	BF	The process in which a solute is transported from one side of a membrane to the other. [GOC:dph, GOC:jid]
gmo-miR-181a	K05746	0,00892355	tmem41aa	ENSGMOG00000003318	ENSDARG00000070028	ko04810 Regulation of actin cytoskeleton	GO:0016021	ko04810 Regulation of actin cytoskeleton		
gmo-miR-181a	K12479	0,00124555	vps33b	ENSGMOG00000003457	ENSDARG00000044813	ko04144 Endocytosis	GO:0006904	ko04144 Endocytosis		
gmo-miR-19a	K04684	1,08026E-35	Klf11	ENSGMOG00000003463	ENSDARG00000030844	ko04915 Estrogen signaling pathway	GO:0046872	ko04915 Estrogen signaling pathway		

gmo-miR-19a	K07373	1,2501E-103	nl|BL_ORD_ID|77572	ENSGMOG00000003494	ENSDARG00000035340	ko04540 Gap junction	GO:0007154	ko04540 Gap junction		
gmo-miR-181a	K04498	0,007045555	Slmo2	ENSGMOG00000003518	ENSG00000101166	ko04024 cAMP signaling pathway		ko04024 cAMP signaling pathway		
gmo-miR-19a			LGALS8	ENSGMOG00000003532	ENSDARG00000037066		GO:0030246	carbohydrate binding	MF	Interacting selectively and non-covalently with any carbohydrate, which includes monosaccharides, oligosaccharides and polysaccharides as well as substances derived from monosaccharides by reduction of the carbonyl group (alditols), by oxidation of one or more hydroxy groups to afford the corresponding aldehydes, ketones, or carboxylic acids, or by replacement of one or more hydroxy group(s) by a hydrogen atom. Cyclitols are generally not regarded as carbohydrates. [CHEBI:16646, GOC:mah]
gmo-miR-130b			LGALS8	ENSGMOG00000003532	ENSDARG00000037066		GO:0030246	carbohydrate binding	MF	Interacting selectively and non-covalently with any carbohydrate, which includes monosaccharides, oligosaccharides and polysaccharides as well as substances derived from monosaccharides by reduction of the carbonyl group (alditols), by oxidation of one or more hydroxy groups to afford the corresponding aldehydes, ketones, or carboxylic acids, or by replacement of one or more hydroxy group(s) by a hydrogen atom. Cyclitols are generally not regarded as carbohydrates. [CHEBI:16646, GOC:mah]
gmo-miR-206			LGALS8	ENSGMOG00000003532	ENSDARG00000037066		GO:0030246	carbohydrate binding	MF	Interacting selectively and non-covalently with any carbohydrate, which includes monosaccharides, oligosaccharides and polysaccharides as well as substances derived from monosaccharides by reduction of the carbonyl group (alditols), by

										oxidation of one or more hydroxy groups to afford the corresponding aldehydes, ketones, or carboxylic acids, or by replacement of one or more hydroxy group(s) by a hydrogen atom. Cyclitols are generally not regarded as carbohydrates. [CHEBI:16646, GOC:mah]
gmo-miR-206	K05767	0	IQGAP1	ENSGMOG00000003631	ENSDARG00000078888	ko04810 Regulation of actin cytoskeleton	GO:0005099	Ras GTPase activator activity	BF	Increases the rate of GTP hydrolysis by a GTPase of the Ras superfamily." [GOC:mah],IEA,MF ENSGMOG00000003631,ENSGMOT00000004030, GO:0030234,enzyme regulator activity,"Binds to and modulates the activity of an enzyme." [GOC:mah],IEA,MF ENSGMOG00000003631,ENSGMOT00000004030, GO:0007264,small GTPase mediated signal transduction,"Any series of molecular signals in which a small monomeric GTPase relays one or more of the signals." [GOC:mah],IEA,BF ENSGMOG00000003631,ENSGMOT00000004030, GO:0007165,signal transduction,"The cellular process in which a signal is conveyed to trigger a change in the activity or state of a cell. Signal transduction begins with reception of a signal (e.g. a ligand binding to a receptor or receptor activation by a stimulus such as light), or for signal transduction in the absence of ligand, signal-withdrawal or the activity of a constitutively active receptor. Signal transduction ends with regulation of a downstream cellular process, e.g. regulation of transcription or regulation of a metabolic process. Signal transduction covers signaling from receptors located on the surface of the cell and signaling via molecules located within the cell. For signaling between cells, signal transduction is

										restricted to events at and within the receiving cell. [GOC:go_curators, GOC:mtg_signaling_feb11]
gmo-miR-9	K01870	0	IARS	ENSGMOG00000003632	ENSDARG00000007955	ko00970 Aminoacyl-tRNA biosynthesis	GO:0000166	nucleotide binding	MF	Interacting selectively and non-covalently with a nucleotide, any compound consisting of a nucleoside that is esterified with (ortho)phosphate or an oligophosphate at any hydroxyl group on the ribose or deoxyribose. [GOC:mah, ISBN:0198547684]
gmo-miR-206			CCNY	ENSGMOG00000003794	ENSG00000108100		GO:0019901	protein kinase binding	MF	Interacting selectively and non-covalently with a protein kinase, any enzyme that catalyzes the transfer of a phosphate group, usually from ATP, to a protein substrate. [GOC:jl]
gmo-miR-19a	K04718	7,0142E-154	SPHK1	ENSGMOG00000003929	ENSG00000176170	ko01100 Metabolic pathways	GO:0004143	ko01100 Metabolic pathways		
gmo-miR-181a	K08749	0	SLC27A6	ENSGMOG00000003965	ENSDARG00000046053	ko03320 PPAR signaling pathway	GO:0003824	ko03320 PPAR signaling pathway		
gmo-miR-9	K01346	1,38057E-66	Cela2a	ENSGMOG00000004069	ENSDARG00000053323	ko04972 Pancreatic secretion	GO:0004252	serine-type endopeptidase activity	MF	Catalysis of the hydrolysis of internal, alpha-peptide bonds in a polypeptide chain by a catalytic mechanism that involves a catalytic triad consisting of a serine nucleophile that is activated by a proton relay involving an acidic residue (e.g. aspartate or glutamate) and a basic residue (usually histidine). [GOC:mah, http://merops.sanger.ac.uk/about/glossary.htm#CATTYPE, ISBN:0716720094]
gmo-miR-181a	K03853	3,12042E-25	Gca	ENSGMOG00000004075	ENSDARG00000020187	ko04510 Focal adhesion	GO:0005509	ko04510 Focal adhesion		
gmo-miR-206	K06236	0,00462568	PDF	ENSGMOG00000004104	ENSDARG00000013950	ko04151 PI3K-Akt signaling pathway	GO:0005506	iron ion binding	MF	Interacting selectively and non-covalently with iron (Fe) ions." [GOC:ai],IEA,MF ENSGMOG00000004104,ENSGMOT00000004464, GO:0003674,MF,"Elemental activities, such as

										catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-11240	K06236	0,00462568	PDF	ENSGMOG00000004104	ENSDARG00000013950	ko04151 PI3K-Akt signaling pathway	GO:0005506	iron ion binding	MF	Interacting selectively and non-covalently with iron (Fe) ions." [GOC:ai],IEA,MF ENSGMOG00000004104,ENSGMOT00000004464, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a	K01398	0	MMP2	ENSGMOG00000004117	ENSDARG00000017676	ko04670 Leukocyte transendothelial migration	GO:0004222	ko04670 Leukocyte transendothelial migration		
gmo-miR-181a	K12327	0,00072626259	Ebna1bp2	ENSGMOG00000004150	ENSDARG00000054980	ko04270 Vascular smooth muscle contraction		ko04270 Vascular smooth muscle contraction		
gmo-miR-130b	K07594	6,31036E-28	hoxd3a	ENSGMOG00000004252	ENSDARG00000059280	ko04911 Insulin secretion	GO:0001071	ko04911 Insulin secretion		
gmo-miR-9	K06229	0	SUFU	ENSGMOG00000004294	ENSG00000107882	ko04340 Hedgehog signaling pathway	GO:0008134	transcription factor binding	MF	Interacting selectively and non-covalently with a transcription factor, any protein required to initiate or regulate transcription. [ISBN:0198506732]
gmo-miR-181a	K06095	5,38159E-09	Apba2	ENSGMOG00000004377	ENSDARG00000063314	ko04530 Tight junction	GO:0005515	ko04530 Tight junction		
gmo-miR-181a	K05627	6,70252E-81	Baiap2l1	ENSGMOG00000004389	ENSDARG00000031119	ko04810 Regulation of actin cytoskeleton	GO:0005515	ko04810 Regulation of actin cytoskeleton		

gmo-miR-11240	K04675	0	ACVR1	ENSGMOG00000004447	ENSDARG00000018179	ko04550 Signaling pathways regulating pluripotency of stem cells	GO:0003674	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a	K01840	1,2972E-133	PMM1	ENSGMOG00000004497	ENSDARG00000038398	ko01100 Metabolic pathways	GO:0004615	ko01100 Metabolic pathways		
gmo-miR-146	K05749	0	cyfip1	ENSGMOG00000004542	ENSDARG00000044345	ko04810 Regulation of actin cytoskeleton				#I/T
gmo-miR-206	K05749	0	cyfip1	ENSGMOG00000004542	ENSDARG00000044345	ko04810 Regulation of actin cytoskeleton				
gmo-miR-206	K13512	9,8613E-137	lpcat4	ENSGMOG00000004565	ENSDARG00000035028	ko01100 Metabolic pathways	GO:0016746	transferase activity, transferring acyl groups	MF	Catalysis of the transfer of an acyl group from one compound (donor) to another (acceptor). [GOC:jl, ISBN:0198506732]
gmo-miR-146	K09188	8,6317E-140	Mll3	ENSGMOG00000004664	ENSDARG00000079312	ko00310 Lysine degradation	GO:0032259	methylation	BF	The process in which a methyl group is covalently attached to a molecule." [GOC:mah],IEA,BF ENSGMOG00000004664,ENSGMOT00000005111, GO:0008150,BF,"Any process specifically pertinent to the functioning of integrated living units: cells, tissues, organs, and organisms. A process is a collection of molecular events with a defined beginning and end. [GOC:go_curators, GOC:isa_complete]
gmo-miR-19a			FAM135A	ENSGMOG00000004667	ENSDARG00000059843		GO:0016788			
gmo-miR-19a	K08746	0	SLC27A2	ENSGMOG00000004720	ENSDARG00000088119	ko04146 Peroxisome	GO:0003824	ko04146 Peroxisome		

gmo-miR-130b	K08342	0,00528079	nl|BL_ORD_ID|75167	ENSGMOG00000004765	ENSDARG00000069674	ko04140 Regulation of autophagy		ko04140 Regulation of autophagy		
gmo-miR-19a	K10892	0,000172355	DENND2A	ENSGMOG00000004777	ENSG00000146966		GO:0003676			
gmo-miR-181a	K07416	2,4487E-135	cyp2k1	ENSGMOG00000004785	ENSDARG00000009874	ko00980 Metabolism of xenobiotics by cytochrome P450	GO:0005506	ko00980 Metabolism of xenobiotics by cytochrome P450		
gmo-miR-9	K02157	9,03372E-95	axin1	ENSGMOG00000004824	ENSDARG00000026534	ko04390 Hippo signaling pathway	GO:0008277	regulation of G-protein coupled receptor protein signaling pathway	BF	Any process that modulates the frequency, rate or extent of G-protein coupled receptor protein signaling pathway activity. [GOC:go_curators]
gmo-miR-181a	K06210	0	nmnat2	ENSGMOG00000004970	ENSDARG00000004580	ko01100 Metabolic pathways	GO:0003824	ko01100 Metabolic pathways		
gmo-miR-19a			Xk	ENSGMOG00000005111	ENSDARG00000044011					
gmo-miR-206	K09561	0	STUB1	ENSGMOG00000005122	ENSDARG00000045228	ko04141 Protein processing in endoplasmic reticulum	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000005122,ENSGMOT00000005584, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]

gmo-miR-9			ltv1	ENSGMOG00000005158	ENSDARG00000008490					
gmo-miR-19a	K08028	5,7576E-32	neurog1	ENSGMOG00000005169	ENSDARG00000056130		GO:0046983			
gmo-miR-206	K04862	0	Cacnb1	ENSGMOG00000005267	ENSDARG00000002167	ko04010 MAPK signaling pathway	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000005267,ENSGMOT00000005755, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-192	K01807	7,4829E-122	RPIA	ENSGMOG00000005294	ENSDARG00000056640	ko01100 Metabolic pathways	GO:0016853	isomerase activity	BF	The branch of the pentose-phosphate shunt which does not involve oxidation reactions. It comprises a series of sugar phosphate interconversions, starting with ribulose 5-P and producing fructose 6-P and glyceraldehyde 3-P. [ISBN:0198506732, MetaCyc:NONOXIPENT-PWY]
gmo-miR-9	K13575	2,2750 8E-30	SLC4A11	ENSGMOG00000005315	ENSDARG00000075532	ko04972 Pancreatic secretion	GO:0006820	anion transport	BF	The directed movement of anions, atoms or small molecules with a net negative charge, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. [GOC:ai]
gmo-miR-206	K13575	2,2750 8E-30	SLC4A11	ENSGMOG00000005315	ENSDARG00000075532	ko04972 Pancreatic secretion	GO:0006820	anion transport	BF	The directed movement of anions, atoms or small molecules with a net negative charge, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. [GOC:ai]
gmo-miR-130b	K04381	5,6082 1E-74	Stmn1	ENSGMOG00000005322	ENSDARG00000004169	ko04010 MAPK signaling pathway	GO:0031110	ko04010 MAPK signaling pathway		

gmo-miR-206	K06533	3,5523E-160	Cdh10	ENSGMOG00000005335	ENSDARG00000091395	ko04670 Leukocyte transendothelial migration	GO:0005509	calcium ion binding	MF	Interacting selectively and non-covalently with calcium ions (Ca2+)." [GOC:ai],IEA,MF ENSGMOG00000005335,ENSGMOT00000005834, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a	K02157	7,3311E-06	SNX25	ENSGMOG00000005477	ENSDARG00000088264	ko04390 Hippo signaling pathway	GO:0008150	ko04390 Hippo signaling pathway		
gmo-miR-19a	K14380	0	FHL2	ENSGMOG00000005511	ENSG00000115641	ko04380 Osteoclast differentiation	GO:0008270	ko04380 Osteoclast differentiation		
gmo-miR-9	K03368	2,2171E-91	St3gal2	ENSGMOG00000005597	ENSDARG00000007494	ko01100 Metabolic pathways	GO:0003674	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-9	K10396	5,4761E-79	KIF3A	ENSGMOG00000005722	ENSDARG00000009850	ko04728 Dopaminergic synapse	GO:0003674	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K10396	5,4761E-79	KIF3A	ENSGMOG00000005722	ENSDARG00000009850	ko04728 Dopaminergic synapse	GO:0003674	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a			grtp1a	ENSGMOG00000005798	ENSDARG00000030269		GO:0005097			
gmo-miR-181a	K08803	1,5218E-21	Fem1c	ENSGMOG00000005806	ENSDARG00000013375		GO:0005515			

gmo-miR-146	K04501	0	Smad4	ENSGMOG00000005844	ENSDARG00000023527	ko04390 Hippo signaling pathway	GO:0006355	regulation of transcription, DNA-templated	BF	Any process that modulates the frequency, rate or extent of cellular DNA-templated transcription. [GOC:go_curators, GOC:txnOH]
gmo-miR-192	K04501	0	Smad4	ENSGMOG00000005844	ENSDARG00000023527	ko04390 Hippo signaling pathway	GO:0006355	regulation of transcription, DNA-templated	BF	Any process that modulates the frequency, rate or extent of cellular DNA-templated transcription. [GOC:go_curators, GOC:txnOH]
gmo-miR-130b	K04714	9,1097E-65	SAMD8	ENSGMOG00000005851	ENSDARG00000074663	ko01100 Metabolic pathways		ko01100 Metabolic pathways		
gmo-miR-9	K15604	8,17193E-41	tal1	ENSGMOG00000005856	ENSDARG00000019930		GO:0046983	protein dimerization activity	MF	The formation of a protein dimer, a macromolecular structure consists of two noncovalently associated identical or nonidentical subunits. [ISBN:0198506732]
gmo-miR-206			COMMD5	ENSGMOG00000005916	ENSDARG00000029660					
gmo-miR-181a	K00820	0	Gfpt1	ENSGMOG00000005919	ENSDARG00000086866	ko01100 Metabolic pathways	GO:0008152	ko01100 Metabolic pathways		
gmo-miR-11240	K12968	1,26975E-84	Adarb1	ENSGMOG00000005924	ENSDARG00000003544	ko04623 Cytosolic DNA-sensing pathway	GO:0004000	adenosine deaminase activity	MF	Catalysis of the hydrolysis of any carbon-nitrogen bond, C-N, with the exception of peptide bonds. [GOC:jl]
gmo-miR-146			LEPROTL1	ENSGMOG00000005981	ENSDARG00000087172					
gmo-miR-206			LEPROTL1	ENSGMOG00000005981	ENSDARG00000087172					
gmo-miR-130b	K13749	0,000572673	TM9SF3	ENSGMOG00000006049	ENSDARG00000028748	ko04744 Phototransduction	GO:0005575	ko04744 Phototransduction (10)		
gmo-miR-19a	K11839	1,70875E-19	Usp45	ENSGMOG00000006066	ENSDARG00000075013	ko04144 Endocytosis	GO:0036459	ubiquitinyl hydrolase activity	MF	Catalysis of the thiol-dependent hydrolysis of an ester, thioester, amide, peptide or isopeptide bond formed by the C-terminal glycine of ubiquitin. [EC:3.4.19.12, GOC:bf, GOC:ka]

gmo-miR-11240	K11839	1,70875E-19	Usp45	ENSGMOG00000006066	ENSDARG00000075013	ko04144 Endocytosis	GO:0036459	ubiquitinyl hydrolase activity	MF	Catalysis of the thiol-dependent hydrolysis of an ester, thioester, amide, peptide or isopeptide bond formed by the C-terminal glycine of ubiquitin. [EC:3.4.19.12, GOC:bf, GOC:ka]
gmo-miR-206	K03869	0	CUL3	ENSGMOG00000006221	ENSDARG00000038967	ko04120 Ubiquitin mediated proteolysis	GO:0003674	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-9			TMED4	ENSGMOG00000006225	ENSDARG00000024954		GO:0006810	transport	BF	The directed movement of substances (such as macromolecules, small molecules, ions) into, out of or within a cell, or between cells, or within a multicellular organism by means of some agent such as a transporter or pore. [GOC:dph, GOC:jl, GOC:mah]
gmo-miR-19a	K10137	0,00013946	ZNF385D	ENSGMOG00000006299	ENSDARG00000086162	ko04115 p53 signaling pathway	GO:0008270	ko04115 p53 signaling pathway		
gmo-miR-206	K13855	0	SLC4A2	ENSGMOG00000006300	ENSDARG00000052330	ko04972 Pancreatic secretion	GO:0005452	inorganic anion exchanger activity	MF	Catalysis of the transfer of a solute or solutes from one side of a membrane to the other according to the reaction: inorganic anion A(out) + inorganic anion B(in) = inorganic anion A(in) + inorganic anion B(out)." [GOC:mah],IEA,MF ENSGMOG00000006300,ENSGMOT00000006915, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-130b			ZFAND5	ENSGMOG00000006340	ENSDARG00000018898		GO:0008270			
gmo-miR-9	K15612	1,59408E-22	LMX1B	ENSGMOG00000006452	ENSDARG00000019306		GO:0003677	DNA binding	MF	Any molecular function by which a gene product interacts selectively and non-covalently with DNA

										(deoxyribonucleic acid). [GOC:dph, GOC:jl, GOC:tb, GOC:vw]
gmo-miR-206	K04664	0	gdf6a	ENSGMOG00000006494	ENSDARG00000053479	ko04390 Hippo signaling pathway	GO:0040007	growth	BF	The increase in size or mass of an entire organism, a part of an organism or a cell. [GOC:bf, GOC:ma]
gmo-miR-19a	K13883	0,00137335	mxd3	ENSGMOG00000006646	ENSDARG00000057432	ko04145 Phagosome	GO:0046983	ko04145 Phagosome		
gmo-miR-130b	K13883	0,00137335	mxd3	ENSGMOG00000006646	ENSDARG00000057432	ko04145 Phagosome	GO:0046983	ko04145 Phagosome		
gmo-miR-19a	K07198	3,18683E-49	Nim1	ENSGMOG00000006689	ENSDARG00000079988	ko04151 PI3K-Akt signaling pathway	GO:0004672	ko04151 PI3K-Akt signaling pathway		
gmo-miR-181a	K05036	0	SLC6A3	ENSGMOG00000006703	ENSDARG00000004219	ko04728 Dopaminergic synapse	GO:0005328	ko04728 Dopaminergic synapse		
gmo-miR-9	K04407	0,00909049	SOBP	ENSGMOG00000006723	ENSDARG00000017386	ko04010 MAPK signaling pathway				
gmo-miR-130b	K03259	6,668E-125	eif4e	ENSGMOG00000006731	ENSDARG00000012274	ko04151 PI3K-Akt signaling pathway	GO:0003743	ko04151 PI3K-Akt signaling pathway		
gmo-miR-206	K08823	1,67506E-39	PRPF4B	ENSGMOG00000006746	ENSDARG00000040310		GO:0004672	protein kinase activity	MF	Catalysis of the phosphorylation of an amino acid residue in a protein, usually according to the reaction: a protein + ATP = a phosphoprotein + ADP. [MetaCyc:PROTEIN-KINASE-RXN]
gmo-miR-181a	K10840	3,24605E-09	Rcn2	ENSGMOG00000006747	ENSDARG00000039378	ko03420 Nucleotide excision repair	GO:0043167	ko03420 Nucleotide excision repair		
gmo-miR-11240	K00182	2,9529E-172	WNT2B	ENSGMOG00000006778	ENSDARG00000032234	ko04390 Hippo signaling pathway	GO:0005102	receptor binding	MF	Interacting selectively and non-covalently with one or more specific sites on a receptor molecule, a macromolecule that undergoes combination with a hormone, neurotransmitter, drug or intracellular messenger to initiate a change in cell function. [GOC:bf, GOC:ceb, ISBN:0198506732]

gmo-miR-19a	K03260	0,00201905	SFXN1	ENSGMOG00000006881	ENSDARG00000057374	ko03013 RNA transport	GO:0015075	ko03013 RNA transport		
gmo-miR-146	K12559	1,3105E-30	PLEKHH2	ENSGMOG00000006939	ENSDARG00000040851	ko04666 Fc gamma R-mediated phagocytosis	GO:0005856	cytoskeleton	CC	Any of the various filamentous elements that form the internal framework of cells, and typically remain after treatment of the cells with mild detergent to remove membrane constituents and soluble components of the cytoplasm. The term embraces intermediate filaments, microfilaments, microtubules, the microtrabecular lattice, and other structures characterized by a polymeric filamentous nature and long-range order within the cell. The various elements of the cytoskeleton not only serve in the maintenance of cellular shape but also have roles in other cellular functions, including cellular movement, cell division, endocytosis, and movement of organelles. [GOC:mah, ISBN:0198547684, PMID:16959967]
gmo-miR-146	K08889	3,05376E-12	bcar3	ENSGMOG00000007057	ENSDARG00000016981		GO:0003674	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-206	K12823	1,40382E-47	DDX18	ENSGMOG00000007113	ENSDARG00000030789	ko03040 Spliceosome	GO:0005524	ATP binding	MF	Interacting selectively and non-covalently with ATP, adenosine 5'-triphosphate, a universally important coenzyme and enzyme regulator. [ISBN:0198506732]
gmo-miR-19a			TSC22D1	ENSGMOG00000007120	ENSDARG00000038306		GO:0003700	sequence-specific DNA binding transcription factor activity	MF	Interacting selectively and non-covalently with a specific DNA sequence in order to modulate transcription. The transcription factor may or may not also interact selectively with a protein or macromolecular complex. [GOC:curators, GOC:txnOH]

gmo-miR-206			TSC22D1	ENSGMOG00000007120	ENSDARG00000038306		GO:0003700	sequence-specific DNA binding transcription factor activity	MF	Interacting selectively and non-covalently with a specific DNA sequence in order to modulate transcription. The transcription factor may or may not also interact selectively with a protein or macromolecular complex. [GOC:curators, GOC:txnOH]
gmo-miR-206	K06109	3,19638E-37	RAB34	ENSGMOG00000007140	ENSDARG00000010977	ko04530 Tight junction	GO:0005525	GTP binding	MF	Interacting selectively and non-covalently with GTP, guanosine triphosphate. [GOC:ai]
gmo-miR-9	K06101	0,00381519	nl|BL_ORD_ID|55085	ENSGMOG00000007183		ko04530 Tight junction				
gmo-miR-146	K05725	8,4119E-134	PTK2	ENSGMOG00000007215	ENSDARG00000004672	ko04151 PI3K-Akt signaling pathway	GO:0005575	ko04151 PI3K-Akt signaling pathway	CC	The part of a cell or its extracellular environment in which a gene product is located. A gene product may be located in one or more parts of a cell and its location may be as specific as a particular macromolecular complex, that is, a stable, persistent association of macromolecules that function together. [GOC:go_curators, NIF_Subcellular:sao-1337158144]
gmo-miR-181a	K05725	8,4119E-134	PTK2	ENSGMOG00000007215	ENSDARG00000004672	ko04151 PI3K-Akt signaling pathway	GO:0005575	ko04151 PI3K-Akt signaling pathway	CC	The part of a cell or its extracellular environment in which a gene product is located. A gene product may be located in one or more parts of a cell and its location may be as specific as a particular macromolecular complex, that is, a stable, persistent association of macromolecules that function together. [GOC:go_curators, NIF_Subcellular:sao-1337158144]
gmo-miR-206	K06254	1,79766E-07	FSTL1	ENSGMOG00000007270	ENSDARG00000039576	ko04512 ECM-receptor interaction	GO:0043167	ion binding	MF	Interacting selectively and non-covalently with ions, charged atoms or groups of atoms. [GOC:jl]
gmo-miR-130b	K15044	7,0185E-154	AGFG1	ENSGMOG00000007273	ENSG00000173744		GO:0030234			

gmo-miR-130b	K08516	1,5016E-116	ykt6	ENSGMOG00000007299	ENSDARG00000038308	ko04130 SNARE interactions in vesicular transport	GO:0016192	vesicle-mediated transport	BF	A cellular transport process in which transported substances are moved in membrane-bounded vesicles; transported substances are enclosed in the vesicle lumen or located in the vesicle membrane. The process begins with a step that directs a substance to the forming vesicle, and includes vesicle budding and coating. Vesicles are then targeted to, and fuse with, an acceptor membrane. [GOC:ai, GOC:mah, ISBN:08789310662000]
gmo-miR-206	K08516	1,5016E-116	ykt6	ENSGMOG00000007299	ENSDARG00000038308	ko04130 SNARE interactions in vesicular transport	GO:0016192	vesicle-mediated transport	BF	A cellular transport process in which transported substances are moved in membrane-bounded vesicles; transported substances are enclosed in the vesicle lumen or located in the vesicle membrane. The process begins with a step that directs a substance to the forming vesicle, and includes vesicle budding and coating. Vesicles are then targeted to, and fuse with, an acceptor membrane. [GOC:ai, GOC:mah, ISBN:08789310662000]
gmo-miR-181a	K01647	0	cs	ENSGMOG00000007367	ENSDARG00000070395	ko01100 Metabolic pathways	GO:0046912	ko01100 Metabolic pathways		
gmo-miR-181a	K03259	2,96644E-20	eif4e3	ENSGMOG00000007389	ENSDARG00000005078	ko04151 PI3K-Akt signaling pathway	GO:0003743	ko04151 PI3K-Akt signaling pathway		
gmo-miR-19a	K07905	1,7222E-148	nl|BL_ORD_ID|317424	ENSGMOG00000007390	WBGENE00004274	ko04144 Endocytosis	GO:0003674	ko04144 Endocytosis		
gmo-miR-146	K12615	0,0001 17144	YJEFN3	ENSGMOG00000007424	ENSDARG00000061692	ko03018 RNA degradation				
gmo-miR-206	K10636	3,0303E-08	Rnf122	ENSGMOG00000007472	ENSDARG00000063483	ko04141 Protein processing in	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or

						endoplasmic reticulum				more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000007472,ENSGMOT00000008233, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-146	K14650	1,7523 6E-05	ING2	ENSGMOG0 0000007511	ENSDARG00 000013042	ko03022 Basal transcription factors	GO:00082 70	zinc ion binding	MF	Interacting selectively and non-covalently with zinc (Zn) ions." [GOC:ai],IEA,MF ENSGMOG00000007511,ENSGMOT00000008262, GO:0043167,ion binding,"Interacting selectively and non-covalently with ions, charged atoms or groups of atoms. [GOC:jl]
gmo-miR-146	K00876	7,0081 E-142	uck2a	ENSGMOG0 0000007600	ENSDARG00 000006074	ko01100 Metabolic pathways	GO:00036 74	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a	K12196	1,4730 9E-47	atad1a	ENSGMOG0 0000007603	ENSDARG00 000023267	ko04144 Endocytosis	GO:00055 24	ko04144 Endocytosis		
gmo-miR-19a	K06244	0,0030 7614	rgs7bpa	ENSGMOG0 0000007714	ENSDARG00 000060601	ko04151 PI3K-Akt signaling pathway		ko04151 PI3K-Akt signaling pathway		
gmo-miR-9	K10591	5,6534 2E-05	DGCR8	ENSGMOG0 0000007715	ENSDARG00 000035564	ko04144 Endocytosis	GO:00055 15	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000007715,ENSGMOT00000008500, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene

										product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K10591	5,6534 2E-05	DGCR8	ENSGMOG0 0000007715	ENSDARG00 000035564	ko04144 Endocytosis	GO:00055 15	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000007715,ENSGMOT00000008500, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-9			CBWD1	ENSGMOG0 0000007807	ENSDARG00 000004318					
gmo-miR-146	K11352	5,5684 E-06	Ndufaf2	ENSGMOG0 0000007829	ENSDARG00 000069286	ko01100 Metabolic pathways				
gmo-miR-206	K07937	6,388E-111	Arf2	ENSGMOG0 0000007850	WBGENE00 000182	ko04144 Endocytosis	GO:00055 25	GTP binding	MF	Interacting selectively and non-covalently with GTP, guanosine triphosphate. [GOC:ai]
gmo-miR-146	K00953	0	flad1	ENSGMOG0 0000007867	ENSDARG00 000070390	ko01100 Metabolic pathways	GO:00067 77	Mo-molybdopterin cofactor biosynthetic process	BF	The chemical reactions and pathways resulting in the formation of the Mo-molybdopterin cofactor, essential for the catalytic activity of some enzymes. The cofactor consists of a mononuclear molybdenum (Mo) ion coordinated by one or two molybdopterin ligands. [http://www.sunysb.edu/biochem/BIOCHEM/faculty pages/schindelin/, ISSN:09498257, PMID:22370186, PMID:23201473]
gmo-miR-181a			zgc:1036 25	ENSGMOG0 0000008215	ENSDARG00 000038770		GO:00081 68			
gmo-miR-181a	K00710	0	Galnt6	ENSGMOG0 0000008290	ENSDARG00 000014386	ko01100 Metabolic pathways		ko01100 Metabolic pathways		

gmo-miR-206			Morf4l1	ENSGMOG00000008374	ENSDARG00000041155					
gmo-miR-181a	K03249	0,00961441	FAM5C	ENSGMOG00000008381	ENSDARG00000061051	ko03013 RNA transport		ko03013 RNA transport		
gmo-miR-146	K13126	2,09785E-11	SPEN	ENSGMOG00000008397	ENSDARG00000074245	ko03013 RNA transport				
gmo-miR-19a	K10955	0,00322767	znf703	ENSGMOG00000008426	ENSG00000183779		GO:0046872			
gmo-miR-181a	K02183	3,74848E-44	CALML4	ENSGMOG00000008451	ENSDARG00000059347	ko04015 Rap1 signaling pathway	GO:0043167	ko04015 Rap1 signaling pathway		
gmo-miR-130b	K06115	0,000045634	Snx1	ENSGMOG00000008480	ENSDARG00000079116		GO:0035091			
gmo-miR-181a	K15542	0,0001 10544	FAM171B	ENSGMOG00000008599		ko03015 mRNA surveillance pathway	GO:0003674	ko03015 mRNA surveillance pathway		
gmo-miR-9	K04250	1,26136E-22	RGR	ENSGMOG00000008610	ENSDARG00000044445	ko04744 Phototransduction	GO:0004930	G-protein coupled receptor activity	MF	Combining with an extracellular signal and transmitting the signal across the membrane by activating an associated G-protein; promotes the exchange of GDP for GTP on the alpha subunit of a heterotrimeric G-protein complex. [GOC:bf, http://www.iuphar-db.org, Wikipedia:GPCR]
gmo-miR-206	K06823	4,91276E-61	Col18a1	ENSGMOG00000008648	ENSDARG00000036558	ko04974 Protein digestion and absorption	GO:0005198	structural molecule activity	MF	The action of a molecule that contributes to the structural integrity of a complex or assembly within or outside a cell." [GOC:mah],IEA,MF ENSGMOG00000008648,ENSGMOT00000009530, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]

gmo-miR-9	K05849	0	Slc8a2	ENSGMOG00000008693	ENSDARG00000008912	ko04022 cGMP-PKG signaling pathway	GO:0007154	cell communication	BF	Any process that mediates interactions between a cell and its surroundings. Encompasses interactions such as signaling or attachment between one cell and another cell, between a cell and an extracellular matrix, or between a cell and any other aspect of its environment. [GOC:mah]
gmo-miR-181a	K01874	0,00757003	CADPS	ENSGMOG00000008765	ENSDARG00000043661	ko00970 Aminoacyl-tRNA biosynthesis		ko00970 Aminoacyl-tRNA biosynthesis		
gmo-miR-130b	K07747	0	BACE2	ENSGMOG00000008848	ENSDARG00000044781		GO:0004190			
gmo-miR-181a	K01349	9,187E-179	Pcsk1	ENSGMOG00000008907	ENSDARG00000002600		GO:0004252			
gmo-miR-181a			thnsl2	ENSGMOG00000008912	ENSDARG00000032584		GO:0030170			
gmo-miR-192	K02154	0	Atp6v0a2	ENSGMOG00000008927	ENSDARG00000035565	ko01100 Metabolic pathways	GO:0005507	copper ion binding	MF	Interacting selectively and non-covalently with copper (Cu) ions." [GOC:ai],IEA,MF ENSGMOG00000008927,ENSGMOT00000009809, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K08487	3,90008E-89	Stx11	ENSGMOG00000008961	ENSDARG00000029290	ko04130 SNARE interactions in vesicular transport	GO:0005515	ko04130 SNARE interactions in vesicular transport		
gmo-miR-206	K03372	0	Slc33a1	ENSGMOG00000009015	ENSDARG00000020085	ko01100 Metabolic pathways	GO:0021955	central nervous system neuron axonogenesis	BF	Generation of a long process from a neuron whose cell body resides in the central nervous system. The process carries efferent (outgoing) action potentials from the cell body towards

										target cells. [GO_REF:0000021, GOC:cls, GOC:dgh, GOC:dph, GOC:jid, GOC:mtg_15jun06]
gmo-miR-9	K06236	0	Col11a1	ENSGMOG00000009072	ENSDARG00000017360	ko04151 PI3K-Akt signaling pathway	GO:0005201	extracellular matrix structural constituent	MF	The action of a molecule that contributes to the structural integrity of the extracellular matrix." [GOC:mah],IEA,MF ENSGMOG00000009072,ENSGMOT00000009997, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-9	K04508	2,3655E-16	hira	ENSGMOG00000009104	ENSDARG00000013434	ko04310 Wnt signaling pathway	GO:0006355	regulation of transcription, DNA-templated	BF	Any process that modulates the frequency, rate or extent of cellular DNA-templated transcription. [GOC:go_curators, GOC:txnOH]
gmo-miR-9	K10594	0,00344515	Spsb4	ENSGMOG00000009180	ENSDARG00000016084	ko04120 Ubiquitin mediated proteolysis	GO:0035556	intracellular signal transduction	BF	The process in which a signal is passed on to downstream components within the cell, which become activated themselves to further propagate the signal and finally trigger a change in the function or state of the cell. [GOC:bf, GOC:jl, GOC:signaling, ISBN:3527303782]
gmo-miR-11240	K11839	7,59312E-34	Usp22	ENSGMOG00000009271	ENSG00000124422	ko04144 Endocytosis	GO:0036459	ubiquitinyl hydrolase activity	MF	Catalysis of the thiol-dependent hydrolysis of an ester, thioester, amide, peptide or isopeptide bond formed by the C-terminal glycine of ubiquitin. [EC:3.4.19.12, GOC:bf, GOC:ka]
gmo-miR-130b	K00922	0	PIK3CG	ENSGMOG00000009314	ENSDARG00000017757	ko04151 PI3K-Akt signaling pathway	GO:0016773	ko04151 PI3K-Akt signaling pathway		
gmo-miR-181a	K13289	0	CTSA	ENSGMOG00000009336	ENSDARG00000087307	ko04142 Lysosome	GO:0004185	ko04142 Lysosome		
gmo-miR-146	K12182	6,41602E-17	WDFY1	ENSGMOG00000009437	ENSDARG00000005425	ko04144 Endocytosis	GO:0046872	metal ion binding	MF	Interacting selectively and non-covalently with any metal ion." [GOC:ai],IEA,MF ENSGMOG00000009437,ENSGMOT00000010355, GO:0003674,MF,"Elemental activities, such as

										catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-9	K06254	1,316E-82	EGFLAM	ENSGMOG00000009470	ENSDARG00000059416	ko04512 ECM-receptor interaction	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000009470,ENSGMOT00000010398, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K05105	0	epha3	ENSGMOG00000009595		ko04360 Axon guidance	GO:0003674	ko04360 Axon guidance		
gmo-miR-206	K10428	1,1609E-90	DCTN6	ENSGMOG00000009637	ENSG00000104671	ko04962 Vasopressin-regulated water reabsorption				
gmo-miR-146	K04604	0	Grm1	ENSGMOG00000009695	ENSDARG00000026796	ko04724 Glutamatergic synapse	GO:0003674	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-11240	K04140	0	nl|BL_ORD_ID|9751	ENSGMOG00000009752	WBGENE00006411	#N/A	#I/T			#I/T
gmo-miR-206			AIM1	ENSGMOG00000009788	ENSDARG00000031782		GO:0005215	transporter activity	MF	Enables the directed movement of substances (such as macromolecules, small molecules, ions) into, out of or within a cell, or between cells. [GOC:ai, GOC:dgf]

gmo-miR-181a			ch211-149a19.1	ENSGMOG00000009833	ENSDARG00000074505					
gmo-miR-9	K06820	0	PLXNA3	ENSGMOG00000010058	ENSDARG00000007172	ko04360 Axon guidance	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000010058,ENSGMOT00000011069, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-130b			C3orf18	ENSGMOG00000010059	ENSDARG00000090634					
gmo-miR-206			LGALS2	ENSGMOG00000010104	ENSDARG00000038153		GO:0030246	carbohydrate binding	MF	Interacting selectively and non-covalently with any carbohydrate, which includes monosaccharides, oligosaccharides and polysaccharides as well as substances derived from monosaccharides by reduction of the carbonyl group (alditols), by oxidation of one or more hydroxy groups to afford the corresponding aldehydes, ketones, or carboxylic acids, or by replacement of one or more hydroxy group(s) by a hydrogen atom. Cyclitols are generally not regarded as carbohydrates. [CHEBI:16646, GOC:mah]
gmo-miR-19a	K03006	0,00181834	RBMS1	ENSGMOG00000010108	ENSDARG00000044179	ko01100 Metabolic pathways		ko01100 Metabolic pathways		
gmo-miR-206	K05625	0	TGM2	ENSGMOG00000010159	ENSDARG00000074094		GO:0018149	peptide cross-linking	BF	The formation of a covalent cross-link between or within protein chains." [GOC:jsg],IEA,BF ENSGMOG00000010159,ENSGMOT00000011173, GO:0006464,cellular protein modification process,"The covalent alteration of one or more

										amino acids occurring in proteins, peptides and nascent polypeptides (co-translational, post-translational modifications) occurring at the level of an individual cell. Includes the modification of charged tRNAs that are destined to occur in a protein (pre-translation modification). [GOC:go_curators]
gmo-miR-9	K12886	0	HNRNPK	ENSGMOG00000010184	ENSDARG00000018914	ko03040 Spliceosome	GO:0004553	hydrolase activity, hydrolyzing O-glycosyl compounds	MF	Catalysis of the hydrolysis of any O-glycosyl bond." [GOC:mah],IEA,MF ENSGMOG00000010184,ENSGMOT00000011200, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-206	K12886	0	HNRNPK	ENSGMOG00000010184	ENSDARG00000018914	ko03040 Spliceosome	GO:0004553	hydrolase activity, hydrolyzing O-glycosyl compounds	MF	Catalysis of the hydrolysis of any O-glycosyl bond." [GOC:mah],IEA,MF ENSGMOG00000010184,ENSGMOT00000011200, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-206	K06084	4,43849E-15	CNN2	ENSGMOG00000010240	ENSDARG00000035858	ko04520 Adherens junction	GO:0043408	regulation of MAPK cascade	BF	Any process that modulates the frequency, rate or extent of signal transduction mediated by the MAP kinase (MAPK) cascade. [GOC:go_curators]
gmo-miR-206	K04556	6,65369E-12	rnf144aa	ENSGMOG00000010275	ENSDARG00000020600	ko04141 Protein processing in endoplasmic reticulum	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000010275,ENSGMOT00000011296, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a

										gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a	K06230	0	Gli2	ENSGMOG00000010335	ENSDARG00000020884	ko04024 cAMP signaling pathway	GO:0005506	ko04024 cAMP signaling pathway		
gmo-miR-130b			Cap2	ENSGMOG00000010398	ENSDARG00000045948		GO:0003779			
gmo-miR-181a			Cap2	ENSGMOG00000010398	ENSDARG00000045948		GO:0003779			
gmo-miR-19a	K06236	0,00749989	murc	ENSGMOG00000010417	ENSDARG00000056743	ko04151 PI3K-Akt signaling pathway		ko04151 PI3K-Akt signaling pathway		
gmo-miR-181a	K05190	0	Gabrr1	ENSGMOG00000010603	ENSDARG00000013047	ko04080 Neuroactive ligand-receptor interaction	GO:0006811	ko04080 Neuroactive ligand-receptor interaction		
gmo-miR-9	K09188	1,4762E-10	UHRF1	ENSGMOG00000010622	ENSDARG00000009946	ko00310 Lysine degradation	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000010622,ENSGMOT00000011690, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K13667	0	POGLUT1	ENSGMOG00000010626	ENSDARG00000053463	ko00514 Other types of O-glycan biosynthesis		ko00514 Other types of O-glycan biosynthesis		

gmo-miR-181a	K00789	0	MAT1A	ENSGMOG00000010652	ENSG00000151224	ko01100 Metabolic pathways	GO:0016765	ko01100 Metabolic pathways		
gmo-miR-181a	K05190	0	GABRR2	ENSGMOG00000010800	ENSDARG00000052982	ko04080 Neuroactive ligand-receptor interaction	GO:0006811	ko04080 Neuroactive ligand-receptor interaction		
gmo-miR-181a			gata4	ENSGMOG00000010832	ENSDARG00000035759		GO:0003700			
gmo-miR-19a			NCOA7	ENSGMOG00000010842	ENSDARG00000074924		GO:0016491			
gmo-miR-181a	K05699	1,6846 1E-16	EHBP1L1	ENSGMOG00000010874	ENSDARG00000079895	ko04510 Focal adhesion	GO:0005515	ko04510 Focal adhesion		
gmo-miR-181a	K05767	0	IQGAP1	ENSGMOG00000010974	ENSDARG00000060010	ko04810 Regulation of actin cytoskeleton	GO:0005515	ko04810 Regulation of actin cytoskeleton		
gmo-miR-9	K00314	6,1542 1E-13	foxred1	ENSGMOG00000011057	ENSDARG00000060790	ko01100 Metabolic pathways	GO:0016491	oxidoreductase activity	MF	Catalysis of an oxidation-reduction (redox) reaction, a reversible chemical reaction in which the oxidation state of an atom or atoms within a molecule is altered. One substrate acts as a hydrogen or electron donor and becomes oxidized, while the other acts as hydrogen or electron acceptor and becomes reduced. [GOC:go_curators]
gmo-miR-19a	K05703	0	fyn	ENSGMOG00000011103	ENSDARG00000011370	ko04510 Focal adhesion	GO:0004672	ko04510 Focal adhesion		
gmo-miR-206			ITGB1BP1	ENSGMOG00000011241	ENSDARG00000007169		GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000011241,ENSGMOT00000012337, GO:0003674,MF,"Elemental activities, such as

										catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-130b	K11419	6,37797E-06	CBX4	ENSGMOG00000011295	ENSDARG00000070807	ko00310 Lysine degradation		ko00310 Lysine degradation		
gmo-miR-9	K06236	0,000709402	TTPAL	ENSGMOG00000011416	ENSDARG00000070644	ko04151 PI3K-Akt signaling pathway				
gmo-miR-130b			CTDSP2	ENSGMOG00000011507	ENSDARG00000036102		GO:0016791			
gmo-miR-9	K02934	7,3839E-122	RPL6	ENSGMOG00000011557	ENSDARG00000058451	ko03010 Ribosome	GO:0003735	structural constituent of ribosome	MF	The action of a molecule that contributes to the structural integrity of the ribosome." [GOC:mah],IEA,MF ENSGMOG00000011557,ENSGMOT00000012686, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-206	K14572	0,000383485	SUDS3	ENSGMOG00000011633	ENSDARG00000073737	ko03008 Ribosome biogenesis in eukaryotes				
gmo-miR-206	K00288	0	MTHFD1	ENSGMOG00000011649	ENSDARG00000040492	ko01100 Metabolic pathways	GO:0004329	formate-tetrahydrofolate ligase activity	MF	Catalysis of the reaction: ATP + formate + tetrahydrofolate = ADP + phosphate + 10-formyltetrahydrofolate." [EC:6.3.4.3],IEA,MF ENSGMOG00000011649,ENSGMOT00000012799, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]

gmo-miR-9	K06571	1,8189E-147	TSPAN7	ENSGMOG00000011650	ENSDARG00000008407		GO:0016021	integral component of membrane	CC	The component of a membrane consisting of gene products and protein complexes that have some part that penetrates at least one leaflet of the membrane bilayer. This component includes gene products that are buried in the bilayer with no exposure outside the bilayer. [GOC:dos, GOC:go_curators]
gmo-miR-19a	K06571	1,8189E-147	TSPAN7	ENSGMOG00000011650	ENSDARG00000008407		GO:0016021	integral component of membrane	CC	The component of a membrane consisting of gene products and protein complexes that have some part that penetrates at least one leaflet of the membrane bilayer. This component includes gene products that are buried in the bilayer with no exposure outside the bilayer. [GOC:dos, GOC:go_curators]
gmo-miR-9	K00871	0	PHKG1	ENSGMOG00000011657	ENSDARG00000030604	ko04910 Insulin signaling pathway	GO:0004672	protein kinase activity	MF	Catalysis of the phosphorylation of an amino acid residue in a protein, usually according to the reaction: a protein + ATP = a phosphoprotein + ADP. [MetaCyc:PROTEIN-KINASE-RXN]
gmo-miR-19a	K13910	1,26592E-08	Fam179b	ENSGMOG00000011680	ENSDARG00000039197					
gmo-miR-130b	K13910	1,26592E-08	Fam179b	ENSGMOG00000011680	ENSDARG00000039197					
gmo-miR-9	K03066	7,79147E-39	Yme1l1	ENSGMOG00000011727	ENSDARG00000087253	ko03050 Proteasome	GO:0004222	ko03050 Proteasome	MF	Catalysis of the hydrolysis of internal, alpha-peptide bonds in a polypeptide chain by a mechanism in which water acts as a nucleophile, one or two metal ions hold the water molecule in place, and charged amino acid side chains are ligands for the metal ions. [GOC:mah, http://merops.sanger.ac.uk/about/glossary.htm#CATTYPE, http://merops.sanger.ac.uk/about/glossary.htm#ENDOPEPTIDASE]

gmo-miR-181a	K03066	7,7914 7E-39	Yme1l1	ENSGMOG0 0000011727	ENSDARG00 000087253	ko03050 Proteasome	GO:00042 22	ko03050 Proteasome	MF	Catalysis of the hydrolysis of internal, alpha-peptide bonds in a polypeptide chain by a mechanism in which water acts as a nucleophile, one or two metal ions hold the water molecule in place, and charged amino acid side chains are ligands for the metal ions. [GOC:mah, http://merops.sanger.ac.uk/about/glossary.htm#CATTYPE, http://merops.sanger.ac.uk/about/glossary.htm#ENDOPEPTIDASE]
gmo-miR-181a	K10604	9,7157 7E-09	RNF26	ENSGMOG0 0000011790	ENSDARG00 000074074	ko04120 Ubiquitin mediated proteolysis	GO:00055 15	ko04120 Ubiquitin mediated proteolysis		
gmo-miR-181a	K14404	2,2716 6E-05	MBNL1	ENSGMOG0 0000011845	ENSG00000 152601	ko03015 mRNA surveillance pathway	GO:00468 72	ko03015 mRNA surveillance pathway		
gmo-miR-206	K09420	0	MYB	ENSGMOG0 0000011856	ENSDARG00 000053666	ko04151 PI3K-Akt signaling pathway	GO:00036 74	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a	K00431	0,0098 37	selt2	ENSGMOG0 0000012015	ENSDARG00 000023220	ko01100 Metabolic pathways	GO:00454 54	ko01100 Metabolic pathways		
gmo-miR-206	K14398	0,0027 4005	DPY19L4	ENSGMOG0 0000012063	ENSG00000 156162	ko03015 mRNA surveillance pathway				
gmo-miR-130b	K04424	0,0003 05733	FAM102 B	ENSGMOG0 0000012081	ENSDARG00 000053104	ko04010 MAPK signaling pathway		ko04010 MAPK signaling pathway (78)		

gmo-miR-181a	K05863	2,0715 6E-31	slc25a24	ENSGMOG0 0000012086	ENSG00000 085491	ko04022 cGMP-PKG signaling pathway	GO:00055 09	ko04022 cGMP-PKG signaling pathway		
gmo-miR-9	K01384	0	WNT11	ENSGMOG0 0000012157	ENSDARG00 000014796	ko04390 Hippo signaling pathway	GO:00051 02	receptor binding	MF	Interacting selectively and non-covalently with one or more specific sites on a receptor molecule, a macromolecule that undergoes combination with a hormone, neurotransmitter, drug or intracellular messenger to initiate a change in cell function. [GOC:bf, GOC:ceb, ISBN:0198506732]
gmo-miR-181a	K12489	0,0000 13932	Osbp2	ENSGMOG0 0000012242	ENSDARG00 000022772	ko04144 Endocytosis		ko04144 Endocytosis		
gmo-miR-19a	K03006	0,0000 61632	QSER1	ENSGMOG0 0000012283	ENSDARG00 000074750	ko01100 Metabolic pathways		ko01100 Metabolic pathways		
gmo-miR-206	K00289	0	aldh1l1	ENSGMOG0 0000012294	ENSDARG00 000077004	ko00670 One carbon pool by folate	GO:00081 68	methyltransfer ase activity	MF	Catalysis of the transfer of a methyl group to an acceptor molecule." [ISBN:0198506732],IEA,MF ENSGMOG00000012294,ENSGMOT00000013514, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-130b	K10575	2,1418 E-121	Ube2g1	ENSGMOG0 0000012306	ENSDARG00 000015292	ko04141 Protein processing in endoplasmic reticulum		ko04141 Protein processing in endoplasmic reticulum		
gmo-miR-181a	K08769	4,5008 4E-20	Slc25a1	ENSGMOG0 0000012373	ENSDARG00 000076381	ko03320 PPAR signaling pathway		ko03320 PPAR signaling pathway		
gmo-miR-146			vps26a	ENSGMOG0 0000012384	ENSDARG00 000056549					

gmo-miR-181a	K07901	3,0126E-138	Rab8a	ENSGMOG00000012489	ENSDARG00000067920	ko04152 AMPK signaling pathway	GO:0005525	ko04152 AMPK signaling pathway		
gmo-miR-130b	K12393	0	AP1M1	ENSGMOG00000012498	ENSDARG00000020838	ko04142 Lysosome	GO:0006886	ko04142 Lysosome		
gmo-miR-181a	K12393	0	AP1M1	ENSGMOG00000012498	ENSDARG00000020838	ko04142 Lysosome	GO:0006886	ko04142 Lysosome		
gmo-miR-206	K08803	0	DAPK3	ENSGMOG00000012530	ENSDARG00000074447		GO:0004672	protein kinase activity	MF	Catalysis of the phosphorylation of an amino acid residue in a protein, usually according to the reaction: a protein + ATP = a phosphoprotein + ADP. [MetaCyc:PROTEIN-KINASE-RXN]
gmo-miR-130b	K07205	2,63796E-23	EIF4EBP2	ENSGMOG00000012592	ENSDARG00000031819	ko04151 PI3K-Akt signaling pathway	GO:0003674	ko04151 PI3K-Akt signaling pathway		
gmo-miR-19a	K11459	4,40513E-29	PcgF3	ENSGMOG00000012685	ENSG00000185619	ko04550 Signaling pathways regulating pluripotency of stem cells	GO:0005515	ko04550 Signaling pathways regulating pluripotency of stem cells		
gmo-miR-130b	K11459	4,40513E-29	PcgF3	ENSGMOG00000012685	ENSG00000185619	ko04550 Signaling pathways regulating pluripotency of stem cells	GO:0005515	ko04550 Signaling pathways regulating pluripotency of stem cells		
gmo-miR-181a	K10352	2,49905E-07	tmem57a	ENSGMOG00000012742	ENSDARG00000005625	ko04530 Tight junction		ko04530 Tight junction		
gmo-miR-181a	K05606	6,38057E-85	MCEE	ENSGMOG00000012884	ENSDARG00000045428	ko01100 Metabolic pathways		ko01100 Metabolic pathways		
gmo-miR-206	K13171	0,00756052	n4bp1	ENSGMOG00000012940	ENSDARG00000057491	ko03013 RNA transport				

gmo-miR-206	K06521	0	Sema4b	ENSGMOG00000013124	ENSDARG00000074414	ko04360 Axon guidance	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000013124,ENSGMOT00000014398, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K09993	9,3749 2E-53	CDKN1C	ENSGMOG00000013175	ENSDARG00000089854	ko04110 Cell cycle	GO:0003674	ko04110 Cell cycle		
gmo-miR-181a	K01367	0	CAPN3	ENSGMOG00000013176	ENSDARG00000041864	ko04141 Protein processing in endoplasmic reticulum	GO:0004198	ko04141 Protein processing in endoplasmic reticulum		
gmo-miR-19a	K06271	0	TLN1	ENSGMOG00000013216	ENSDARG00000005333	ko04510 Focal adhesion	GO:0005856	ko04510 Focal adhesion		
gmo-miR-206			FKBP14	ENSGMOG00000013265	ENSDARG00000040695		GO:0006457	protein folding	BF	The process of assisting in the covalent and noncovalent assembly of single chain polypeptides or multisubunit complexes into the correct tertiary structure. [GOC:go_curators, GOC:rb]
gmo-miR-206	K00654	0	SPTLC1	ENSGMOG00000013388	ENSDARG00000042995	ko01100 Metabolic pathways	GO:0030170	pyridoxal phosphate binding	MF	Interacting selectively and non-covalently with pyridoxal 5' phosphate, 3-hydroxy-5-(hydroxymethyl)-2-methyl4-pyridine carboxaldehyde 5' phosphate, the biologically active form of vitamin B6. [GOC:mah, ISBN:0198506732]
gmo-miR-130b	K09502	6,1512 E-169	DNAJA1	ENSGMOG00000013423	ENSDARG00000051762	ko04141 Protein processing in endoplasmic reticulum	GO:0031072	heat shock protein binding	MF	Interacting selectively and non-covalently with a heat shock protein, any protein synthesized or activated in response to heat shock. [GOC:mah, GOC:vw]

gmo-miR-146	K09502	6,1512E-169	DNAJA1	ENSGMOG00000013423	ENSDARG00000051762	ko04141 Protein processing in endoplasmic reticulum	GO:0031072	heat shock protein binding	MF	Interacting selectively and non-covalently with a heat shock protein, any protein synthesized or activated in response to heat shock. [GOC:mah, GOC:vw]
gmo-miR-192	K00948	2,4578E-164	PRPS1L1	ENSGMOG00000013453	ENSG00000147224	ko01100 Metabolic pathways	GO:0009116	nucleoside metabolic process	BF	The chemical reactions and pathways involving a nucleoside, a nucleobase linked to either beta-D-ribofuranose (a ribonucleoside) or 2-deoxy-beta-D-ribofuranose, (a deoxyribonucleoside), e.g. adenosine, guanosine, inosine, cytidine, uridine and deoxyadenosine, deoxyguanosine, deoxycytidine and thymidine (= deoxythymidine). [GOC:ma]
gmo-miR-19a	K06236	4,2278E-154	col1a2	ENSGMOG00000013455	ENSDARG00000020007	ko04151 PI3K-Akt signaling pathway	GO:0005201	ko04151 PI3K-Akt signaling pathway		
gmo-miR-181a	K04344	0,000872749	tnfaip8l1	ENSGMOG00000013529	ENSDARG00000086457	ko04010 MAPK signaling pathway		ko04010 MAPK signaling pathway		
gmo-miR-181a			fam188a	ENSGMOG00000013568	ENSDARG00000028715		GO:0004930			
gmo-miR-19a	K15839	1,9508E-172	Gpsm2	ENSGMOG00000013687	ENSDARG00000025027		GO:0005515			
gmo-miR-206			PHTF2	ENSGMOG00000013701	ENSDARG00000077204					
gmo-miR-181a	K11248	1,7314E-178	SH3GLB1	ENSGMOG00000013761	ENSDARG00000045294	ko04144 Endocytosis	GO:0005515	ko04144 Endocytosis		
gmo-miR-9	K02927	7,53322E-08	Bag6	ENSGMOG00000013765	ENSDARG00000075892	ko03010 Ribosome	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000013765,ENSGMOT00000015123, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a

										gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-11240			Metrn	ENSGMOG00000013778	ENSDARG00000030367					
gmo-miR-9	K14349	4,0712E-119	AADAC	ENSGMOG00000013815	ENSDARG00000063621	ko04976 Bile secretion	GO:0016787	hydrolase activity	MF	Catalysis of the hydrolysis of various bonds, e.g. C-O, C-N, C-C, phosphoric anhydride bonds, etc. Hydrolase is the systematic name for any enzyme of EC class 3. [ISBN:0198506732]
gmo-miR-181a	K11866	4,893E-106	stambpa	ENSGMOG00000013931	ENSDARG00000086906	ko04144 Endocytosis	GO:0005515	ko04144 Endocytosis		
gmo-miR-192	K12792	2,3064E-118	TRIP6	ENSGMOG00000013946	ENSDARG00000069331	ko04621 NOD-like receptor signaling pathway	GO:0043167	ion binding	MF	Interacting selectively and non-covalently with ions, charged atoms or groups of atoms. [GOC:jl]
gmo-miR-9	K05872	8,9452E-140	NFKBIE	ENSGMOG00000014026	ENSDARG00000068367	ko04722 Neurotrophin signaling pathway	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000014026,ENSGMOT00000015372, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K09479	0	ACADVL	ENSGMOG00000014084	ENSDARG00000016687	ko01100 Metabolic pathways	GO:0003995	ko01100 Metabolic pathways		
gmo-miR-9	K13575	0	SLC4A4	ENSGMOG00000014112	ENSDARG00000013730	ko04972 Pancreatic secretion	GO:0005452	inorganic anion exchanger activity	MF	Catalysis of the transfer of a solute or solutes from one side of a membrane to the other according to the reaction: inorganic anion A(out) + inorganic anion B(in) = inorganic anion A(in) + inorganic anion B(out)." [GOC:mah],IEA,MF ENSGMOG00000014112,ENSGMOT00000015497,

										GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K13575	0	SLC4A4	ENSGMOG00000014112	ENSDARG00000013730	ko04972 Pancreatic secretion	GO:0005452	inorganic anion exchanger activity	MF	Catalysis of the transfer of a solute or solutes from one side of a membrane to the other according to the reaction: inorganic anion A(out) + inorganic anion B(in) = inorganic anion A(in) + inorganic anion B(out)." [GOC:mah],IEA,MF ENSGMOG00000014112,ENSGMOT00000015497, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a	K12490	0,00172443	plekha8	ENSGMOG00000014145	ENSDARG00000040698	ko04144 Endocytosis	GO:0003674	ko04144 Endocytosis		
gmo-miR-181a	K10955	0,00612937	nusap1	ENSGMOG00000014195	ENSDARG00000002403		GO:0001755			
gmo-miR-181a	K07531	5,07314E-85	Rnd2	ENSGMOG00000014204	ENSDARG00000070735	ko04360 Axon guidance	GO:0005525	ko04360 Axon guidance		
gmo-miR-181a	K06236	0,000299022	Asphd2	ENSGMOG00000014252	ENSDARG00000075813	ko04151 PI3K-Akt signaling pathway	GO:0018193	ko04151 PI3K-Akt signaling pathway		
gmo-miR-9	K01059	0	LPL	ENSGMOG00000014259	ENSDARG00000087697	ko03320 PPAR signaling pathway	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000014259,ENSGMOT00000015631, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene

										product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a	K05722	8,0767 8E-05	Osbpl9	ENSGMOG0 0000014271	ENSDARG00 000069298	ko04810 Regulation of actin cytoskeleton		ko04810 Regulation of actin cytoskeleton		
gmo-miR-146	K14411	8,1131 8E-09	SAFB	ENSGMOG0 0000014280	ENSDARG00 000020467	ko03015 mRNA surveillance pathway	GO:00036 76	nucleic acid binding	MF	Interacting selectively and non-covalently with any nucleic acid." [GOC:jl],IEA,MF ENSGMOG00000014280,ENSGMOT00000015676, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K03853	1,5996 7E-60	CAPN5	ENSGMOG0 0000014423	ENSDARG00 000069717	ko04510 Focal adhesion	GO:00056 23	ko04510 Focal adhesion		
gmo-miR-181a	K01365	0	CTSL1	ENSGMOG0 0000014448	ENSDARG00 000007836	ko04145 Phagosome	GO:00082 34	ko04145 Phagosome		
gmo-miR-146	K07827	1,236E-106	Hras1	ENSGMOG0 0000014457	ENSDARG00 000013161	ko04010 MAPK signaling pathway	GO:00055 25	GTP binding	MF	Interacting selectively and non-covalently with GTP, guanosine triphosphate. [GOC:ai]
gmo-miR-130b	K10601	3,4242 7E-08	RNF11	ENSGMOG0 0000014469	ENSDARG00 000040635	ko04141 Protein processing in endoplasmic reticulum	GO:00055 15	ko04141 Protein processing in endoplasmic reticulum		
gmo-miR-19a	K09299	0,0005 56076	Homez	ENSGMOG0 0000014586	ENSDARG00 000054304		GO:00036 74			
gmo-miR-130b	K09299	0,0005 56076	Homez	ENSGMOG0 0000014586	ENSDARG00 000054304		GO:00036 74			
gmo-miR-181a			TM9SF2	ENSGMOG0 0000014604	ENSDARG00 000003866		GO:00160 21			

gmo-miR-206	K10877	0	RAD54B	ENSGMOG00000014774	ENSDARG00000092134	ko03440 Homologous recombination	GO:0003674	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-130b	K04459	2,1011E-177	DUSP5	ENSGMOG00000014791	ENSDARG00000019307	ko04010 MAPK signaling pathway	GO:0008138	ko04010 MAPK signaling pathway		
gmo-miR-181a	K04443	0	Mapkapk2	ENSGMOG00000014838	ENSDARG00000002552	ko04010 MAPK signaling pathway	GO:0004672	ko04010 MAPK signaling pathway		
gmo-miR-206	K12366	0	Elmo2	ENSGMOG00000015018	ENSDARG00000063527	ko04062 Chemokine signaling pathway	GO:0006909	phagocytosis	BF	An endocytosis process that results in the engulfment of external particulate material by phagocytes. The particles are initially contained within phagocytic vacuoles (phagosomes), which then fuse with primary lysosomes to effect digestion of the particles. [ISBN:0198506732]
gmo-miR-9	K(lysine)	0	Kat2a	ENSGMOG00000015110	ENSDARG00000006017		GO:0005515	protein binding	BF	Any process that modulates the frequency, rate or extent of cellular DNA-templated transcription. [GOC:go_curators, GOC:txnOH]
gmo-miR-181a			BBS1	ENSGMOG00000015148	ENSDARG00000075169		GO:0060027			
gmo-miR-19a	K06091	0	mpp5a	ENSGMOG00000015184	ENSDARG00000006272	ko04390 Hippo signaling pathway	GO:0005515	ko04390 Hippo signaling pathway		
gmo-miR-181a			HPS4	ENSGMOG00000015200	ENSDARG00000013795					
gmo-miR-206	K00939	7,5745E-123	ak1	ENSGMOG00000015312	ENSDARG00000001950	ko01100 Metabolic pathways	GO:0005524	ATP binding	MF	Interacting selectively and non-covalently with ATP, adenosine 5'-triphosphate, a universally important coenzyme and enzyme regulator. [ISBN:0198506732]

gmo-miR-206	K11540	0	CAD	ENSGMOG00000015332	ENSDARG00000041895	ko01100 Metabolic pathways	GO:0016812	hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in cyclic amides	MF	Catalysis of the hydrolysis of any carbon-nitrogen bond, C-N, with the exception of peptide bonds. [GOC:jl]
gmo-miR-11240	K12319	0,00277738	CKAP5	ENSGMOG00000015373	ENSDARG00000073898	ko00230 Purine metabolism				
gmo-miR-181a	K12462	2,29602E-58	Arhgdib	ENSGMOG00000015520	ENSDARG00000004034	ko04722 Neurotrophin signaling pathway	GO:0005623	ko04722 Neurotrophin signaling pathway		
gmo-miR-206	K02365	9,63644E-05	C20orf4	ENSGMOG00000015584	ENSDARG00000018658	ko04110 Cell cycle				
gmo-miR-130b	K12495	0,00106726	exoc8	ENSGMOG00000015629	ENSDARG00000063211	ko04144 Endocytosis		ko04144 Endocytosis		
gmo-miR-181a	K08448	2,23792E-54	Ramp2	ENSGMOG00000015667	ENSDARG00000037895	ko04270 Vascular smooth muscle contraction	GO:0008565	ko04270 Vascular smooth muscle contraction		
gmo-miR-206	K13781	0	Slc7a8	ENSGMOG00000015687	ENSDARG00000075831	ko04974 Protein digestion and absorption	GO:0003674	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a	K06054	1,9646E-138	hes1-b	ENSGMOG00000015708	ENSDARG00000006514	ko04330 Notch signaling pathway	GO:0003677	ko04330 Notch signaling pathway		
gmo-miR-19a	K00558	1,10489E-09	kdm2b	ENSGMOG00000015869	ENSDARG00000036593	ko01100 Metabolic pathways	GO:0005515	ko01100 Metabolic pathways		

gmo-miR-130b	K00558	1,1048 9E-09	kdm2b	ENSGMOG0 0000015869	ENSDARG00 000036593	ko01100 Metabolic pathways	GO:00055 15	ko01100 Metabolic pathways		
gmo-miR-192	K11839	1,6094 3E-53	usp20	ENSGMOG0 0000015881	ENSDARG00 000027501	ko04144 Endocytosis	GO:00364 59	ubiquitinyl hydrolase activity	MF	Catalysis of the thiol-dependent hydrolysis of an ester, thioester, amide, peptide or isopeptide bond formed by the C-terminal glycine of ubiquitin. [EC:3.4.19.12, GOC:bf, GOC:ka]
gmo-miR-181a	K06494	1,7603 6E-14	KIAA024 7	ENSGMOG0 0000015973	ENSG00000 100647	ko04514 Cell adhesion molecules (CAMs)		ko04514 Cell adhesion molecules (CAMs)		
gmo-miR-9			Emp3	ENSGMOG0 0000016022	ENSDARG00 000054894		GO:00160 21	integral component of membrane	CC	The component of a membrane consisting of gene products and protein complexes that have some part that penetrates at least one leaflet of the membrane bilayer. This component includes gene products that are buried in the bilayer with no exposure outside the bilayer. [GOC:dos, GOC:go_curators]
gmo-miR-181a	K11155	0	Dgat1	ENSGMOG0 0000016023	ENSDARG00 000054914	ko01100 Metabolic pathways	GO:00018 78	ko01100 Metabolic pathways		
gmo-miR-9			TIMP2	ENSGMOG0 0000016040	ENSDARG00 000075261		GO:00055 15	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000016040,ENSGMOT00000017630, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-9			NECAB1	ENSGMOG0 0000016094	ENSG00000 125967		GO:00055 09	calcium ion binding	MF	Interacting selectively and non-covalently with calcium ions (Ca2+)." [GOC:ai],IEA,MF

										ENSGMOG00000016094,ENSGMOT00000017695, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K14010	1,8490 7E-96	tram1l1	ENSGMOG0 0000016166	ENSDARG00 000019137	ko04141 Protein processing in endoplasmic reticulum	GO:00160 21	ko04141 Protein processing in endoplasmic reticulum		
gmo-miR-11240			Klf3	ENSGMOG0 0000016199	ENSDARG00 000015495		GO:00468 72	metal ion binding	MF	Interacting selectively and non-covalently with any metal ion." [GOC:ai],IEA,MF ENSGMOG00000016199,ENSGMOT00000017814, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-130b	K03094	2,8993 4E-92	Skp1	ENSGMOG0 0000016212	ENSDARG00 000003151	ko04141 Protein processing in endoplasmic reticulum	GO:00065 11	ko04141 Protein processing in endoplasmic reticulum		
gmo-miR-9	K06109	1,0367 7E-35	Rab34	ENSGMOG0 0000016238	ENSDARG00 000045628	ko04530 Tight junction	GO:00055 25	GTP binding	MF	Interacting selectively and non-covalently with GTP, guanosine triphosphate. [GOC:ai]
gmo-miR-11240	K01768	2,9211 5E-27	Lrrc8a	ENSGMOG0 0000016278	ENSDARG00 000032188	ko00230 Purine metabolism				
gmo-miR-9	K10591	3,1290 7E-91	HECW1	ENSGMOG0 0000016284	ENSDARG00 000090795	ko04144 Endocytosis	GO:00055 15	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000016284,ENSGMOT00000017951,

										GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-130b	K04393	2,1642E-142	Cdc42	ENSGMOG00000016311	WBGENE00000390	ko04010 MAPK signaling pathway	GO:0005525	ko04010 MAPK signaling pathway		
gmo-miR-206	K03898	0,000679239	FETUB	ENSGMOG00000016416	ENSDARG00000053973	ko04610 Complement and coagulation cascades	GO:0004869	cysteine-type endopeptidase inhibitor activity	MF	Stops, prevents or reduces the activity of a cysteine-type endopeptidase, any enzyme that hydrolyzes peptide bonds in polypeptides by a mechanism in which the sulfhydryl group of a cysteine residue at the active center acts as a nucleophile. [GOC:dph, GOC:tb]
gmo-miR-181a	K12824	0	Tcerg1	ENSGMOG00000016505	ENSDARG00000030665	ko03040 Spliceosome	GO:0005515	ko03040 Spliceosome		
gmo-miR-206			nl|BL_ORD_ID|199883	ENSGMOG00000016590	ENSDARG00000054942		GO:0003674	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-206	K10352	0,0093104	Mrrf	ENSGMOG00000016602	ENSDARG00000034174	ko04530 Tight junction				
gmo-miR-206	K10352	1,5014E-16	Filip1	ENSGMOG00000016652	ENSDARG00000078419	ko04530 Tight junction				
gmo-miR-146	K00273	0	DAO	ENSGMOG00000016658	ENSDARG00000035601	ko01100 Metabolic pathways	GO:0016491	oxidoreductase activity	MF	Catalysis of an oxidation-reduction (redox) reaction, a reversible chemical reaction in which the oxidation state of an atom or atoms within a molecule is altered. One substrate acts as a hydrogen or electron donor and becomes oxidized, while the other acts as hydrogen or electron acceptor and becomes reduced. [GOC:go_curators]

gmo-miR-181a	K07603	0,00267559	tmem2	ENSGMOG00000016737	ENSDARG00000061600	ko04974 Protein digestion and absorption		ko04974 Protein digestion and absorption		
gmo-miR-130b			NICN1	ENSGMOG00000016757	ENSDARG00000069677					
gmo-miR-206			Nipsnap1	ENSGMOG00000016779	ENSDARG00000005320					
gmo-miR-181a	K07941	3,86931E-31	arl8ba	ENSGMOG00000016780	ENSDARG00000006915	ko04144 Endocytosis	GO:0005525	ko04144 Endocytosis		
gmo-miR-206	K13136	1,98734E-42	GEMIN8	ENSGMOG00000016911	ENSDARG00000053496	ko03013 RNA transport				
gmo-miR-9	K01014	1,08384E-94	sult1st3	ENSGMOG00000016964	ENSDARG00000003181		GO:0008146	sulfotransferase activity	MF	Catalysis of the transfer of a sulfate group from 3'-phosphoadenosine 5'-phosphosulfate to the hydroxyl group of an acceptor, producing the sulfated derivative and 3'-phosphoadenosine 5'-phosphate. [EC:2.8.2, GOC:curators]
gmo-miR-19a	K01014	1,08384E-94	sult1st3	ENSGMOG00000016964	ENSDARG00000003181		GO:0008146	sulfotransferase activity	MF	Catalysis of the transfer of a sulfate group from 3'-phosphoadenosine 5'-phosphosulfate to the hydroxyl group of an acceptor, producing the sulfated derivative and 3'-phosphoadenosine 5'-phosphate. [EC:2.8.2, GOC:curators]
gmo-miR-146	K05691	8,30843E-46	Ctnnal1	ENSGMOG00000016992	ENSDARG00000018162	ko04390 Hippo signaling pathway	GO:0051015	actin filament binding	MF	Interacting selectively and non-covalently with an actin filament, also known as F-actin, a helical filamentous polymer of globular G-actin subunits. [ISBN:0198506732]
gmo-miR-19a	K02583	1,0461E-125	NGFR	ENSGMOG00000017002	ENSDARG00000057143	ko04151 PI3K-Akt signaling pathway	GO:0005515	ko04151 PI3K-Akt signaling pathway		
gmo-miR-130b	K02583	1,0461E-125	NGFR	ENSGMOG00000017002	ENSDARG00000057143	ko04151 PI3K-Akt signaling pathway	GO:0005515	ko04151 PI3K-Akt signaling pathway		

gmo-miR-9			ric8a	ENSGMOG00000017080	ENSDARG00000007247					
gmo-miR-206	K12471	0,005040 2	tpra1	ENSGMOG00000017122	ENSDARG00000054930	ko04144 Endocytosis				
gmo-miR-181a	K09188	2,7865 3E-12	MTF2	ENSGMOG00000017230	ENSDARG00000005590	ko00310 Lysine degradation	GO:00055 15	ko00310 Lysine degradation		
gmo-miR-181a	K05181	1,9726 E-152	GABRB4	ENSGMOG00000017243	ENSDARG00000015530	ko04080 Neuroactive ligand-receptor interaction	GO:00068 11	ko04080 Neuroactive ligand-receptor interaction		
gmo-miR-181a	K01047	1,2635 8E-18	ASB7	ENSGMOG00000017250	ENSDARG00000006494	ko01100 Metabolic pathways	GO:00355 56	ko01100 Metabolic pathways		
gmo-miR-192	K06237	0,0013 4417	YPEL2	ENSGMOG00000017346	ENSDARG00000077224	ko04151 PI3K-Akt signaling pathway				
gmo-miR-9	K07199	1,3114 E-106	PRKAB1	ENSGMOG00000017381	ENSDARG00000046143	ko04068 FoxO signaling pathway	GO:00055 15	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000017381,ENSGMOT00000019211, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-9	K06254	4,5565 2E-27	tmeff1	ENSGMOG00000017459	ENSDARG00000056740	ko04512 ECM-receptor interaction	GO:00055 15	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000017459,ENSGMOT00000019221, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene

										product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-146	K06254	4,5565 2E-27	tmeff1	ENSGMOG0 0000017459	ENSDARG00 000056740	ko04512 ECM-receptor interaction	GO:00055 15	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000017459,ENSGMOT00000019221, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-146	K10447	7,9179 9E-25	KBTBD4	ENSGMOG0 0000017530	ENSDARG00 000069271	ko04120 Ubiquitin mediated proteolysis	GO:00055 15	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000017530,ENSGMOT00000019298, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a	K13811	0	Papss1	ENSGMOG0 0000017531	ENSDARG00 000057099	ko01100 Metabolic pathways	GO:00047 81	sulfate adenylyltransfe rase (ATP) activity	MF	Catalysis of the reaction: ATP + sulfate = diphosphate + adenylylsulfate." [EC:2.7.7.4],IEA,MF ENSGMOG00000017531,ENSGMOT00000019312, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]

gmo-miR-206	K13811	0	Papss1	ENSGMOG00000017531	ENSDARG00000057099	ko01100 Metabolic pathways	GO:0004781	sulfate adenylyltransferase (ATP) activity	MF	Catalysis of the reaction: ATP + sulfate = diphosphate + adenylylsulfate." [EC:2.7.7.4],IEA,MF ENSGMOG00000017531,ENSGMOT00000019312, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a	K12316	0	Gaa	ENSGMOG00000017542	ENSDARG00000074282	ko01100 Metabolic pathways	GO:0016798	ko01100 Metabolic pathways		
gmo-miR-9	K10500	1,08246E-66	Znf710	ENSGMOG00000017555	ENSDARG00000005549	ko04110 Cell cycle	GO:0003676	nucleic acid binding	MF	Interacting selectively and non-covalently with any nucleic acid." [GOC:jl],IEA,MF ENSGMOG00000017555,ENSGMOT00000019326, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-206	K01183	3,71675E-05	chid1	ENSGMOG00000017597	ENSDARG00000069673	ko01110 Biosynthesis of secondary metabolites	GO:0004553	hydrolase activity, hydrolyzing O-glycosyl compounds	MF	Catalysis of the hydrolysis of any O-glycosyl bond." [GOC:mah],IEA,MF ENSGMOG00000017597,ENSGMOT00000019384, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-130b	K08023	1,06447E-13	Creld1	ENSGMOG00000017600	ENSDARG00000006990		GO:0005515			
gmo-miR-9	K06591	0	ITGB8	ENSGMOG00000017668	ENSDARG00000028222	ko04151 PI3K-Akt signaling pathway	GO:0046872	ko04151 PI3K-Akt signaling pathway		

gmo-miR-130b	K06591	0	ITGB8	ENSGMOG00000017668	ENSDARG00000028222	ko04151 PI3K-Akt signaling pathway	GO:0046872	ko04151 PI3K-Akt signaling pathway		
gmo-miR-206	K06591	0	ITGB8	ENSGMOG00000017668	ENSDARG00000028222	ko04151 PI3K-Akt signaling pathway	GO:0046872	ko04151 PI3K-Akt signaling pathway		
gmo-miR-181a	K06236	1,4778E-05	Smarcd2	ENSGMOG00000017708	ENSDARG00000088877	ko04151 PI3K-Akt signaling pathway		ko04151 PI3K-Akt signaling pathway		
gmo-miR-11240	K13577	4,3327E-48	Slc25a11	ENSGMOG00000017735	ENSDARG00000035741	ko04964 Proximal tubule bicarbonate reclamation				
gmo-miR-181a	K04288	5,4278E-112	S1pr1	ENSGMOG00000017756	ENSXMAG00000019815	ko04068 FoxO signaling pathway	GO:0004930	ko04068 FoxO signaling pathway		
gmo-miR-181a	K08131	4,1829E-05	Mkl1	ENSGMOG00000017784	ENSDARG00000075867	ko04974 Protein digestion and absorption		ko04974 Protein digestion and absorption		
gmo-miR-206	K04648	4,7534E-15	CLIP1	ENSGMOG00000017829	ENSDARG00000079483	ko04962 Vasopressin-regulated water reabsorption				
gmo-miR-181a	K05863	9,2618E-25	SLC25A22	ENSGMOG00000017830	ENSDARG00000020718	ko04022 cGMP-PKG signaling pathway		ko04022 cGMP-PKG signaling pathway		
gmo-miR-181a	K09295	7,1131E-09	hoxc12a	ENSGMOG00000017864	ENSDARG00000046043		GO:0003677	DNA binding	MF	Any molecular function by which a gene product interacts selectively and non-covalently with DNA (deoxyribonucleic acid). [GOC:dph, GOC:jl, GOC:tb, GOC:vw]

gmo-miR-206	K09295	7,1131 7E-09	hoxc12a	ENSGMOG0 0000017864	ENSDARG00 000046043		GO:00036 77	DNA binding	MF	Any molecular function by which a gene product interacts selectively and non-covalently with DNA (deoxyribonucleic acid). [GOC:dph, GOC:jl, GOC:tb, GOC:vw]
gmo-miR-206	K07594	1,9599 6E-23	hoxc5a	ENSGMOG0 0000017901	ENSDARG00 000070340	ko04911 Insulin secretion	GO:00010 71	nucleic acid binding transcription factor activity	BF	Any process that modulates the frequency, rate or extent of cellular DNA-templated transcription. [GOC:go_curators, GOC:txnOH]
gmo-miR-181a	K06496	5,6343 1E-96	Selp	ENSGMOG0 0000017933	ENSDARG00 000042138	ko04514 Cell adhesion molecules (CAMs)		ko04514 Cell adhesion molecules (CAMs)		
gmo-miR-181a	K04434	2,7635 2E-95	Mapk8ip 1	ENSGMOG0 0000017952	ENSDARG00 000091191	ko04010 MAPK signaling pathway	GO:00055 15	ko04010 MAPK signaling pathway		
gmo-miR-206	K12478	0,0030 0851	CCDC90A	ENSGMOG0 0000017965	ENSDARG00 000016964	ko04144 Endocytosis				
gmo-miR-206	K12399	5,9017 E-11	COPZ1	ENSGMOG0 0000017991	ENSDARG00 000017844	ko04142 Lysosome	GO:00020 88	lens development in camera-type eye	BF	The process whose specific outcome is the progression of the lens over time, from its formation to the mature structure. The lens is a transparent structure in the eye through which light is focused onto the retina. An example of this process is found in Mus musculus. [GOC:dph, ISBN:0582064333]
gmo-miR-9			Klf2	ENSGMOG0 0000018056	ENSDARG00 000038792		GO:00468 72	metal ion binding	MF	Interacting selectively and non-covalently with any metal ion." [GOC:ai],IEA,MF ENSGMOG00000018056,ENSGMOT00000019909, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]

gmo-miR-206	K09063	5,3442 5E-79	Tcf4	ENSGMOG0 0000018104	ENSDARG00 000087652	ko04550 Signaling pathways regulating pluripotency of stem cells	GO:00036 74	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-146	K04372	0	mknk1	ENSGMOG0 0000018201	ENSDARG00 000018411	ko04010 MAPK signaling pathway	GO:00036 74	MF	MF	Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K05760	6,6506 1E-42	Ldb3	ENSGMOG0 0000018212	ENSDARG00 000056322	ko04510 Focal adhesion	GO:00055 15	ko04510 Focal adhesion		
gmo-miR-19a	K11428	4,9492 E-102	setd8a	ENSGMOG0 0000018221	ENSDARG00 000068319	ko00310 Lysine degradation	GO:00180 24	ko00310 Lysine degradation		
gmo-miR-206	K12478	9,0608 5E-05	CCDC93	ENSGMOG0 0000018223	ENSDARG00 000040678	ko04144 Endocytosis				
gmo-miR-206			MOBKL2 C	ENSGMOG0 0000018227	ENSDARG00 000043705					
gmo-miR-181a	K10247	2,5663 E-164	ELOVL1	ENSGMOG0 0000018234	ENSDARG00 000058356	ko00062 Fatty acid elongation	GO:00160 21	ko00062 Fatty acid elongation		
gmo-miR-19a	K02183	3,6185 6E-14	EFCAB7	ENSGMOG0 0000018277	ENSDARG00 000020279	ko04015 Rap1 signaling pathway	GO:00055 09	ko04015 Rap1 signaling pathway		
gmo-miR-181a	K00252	0	GCDH	ENSGMOG0 0000018332	ENSDARG00 000037057	ko01100 Metabolic pathways	GO:00039 95	ko01100 Metabolic pathways		
gmo-miR-146			TM9SF4	ENSGMOG0 0000018361	ENSDARG00 000002536		GO:00160 21	integral component of membrane	CC	The component of a membrane consisting of gene products and protein complexes that have some part that penetrates at least one leaflet of the membrane bilayer. This component includes gene products that are buried in the bilayer with no

										exposure outside the bilayer. [GOC:dos, GOC:go_curators]
gmo-miR-206			TM9SF4	ENSGMOG00000018361	ENSDARG00000002536		GO:0016021	integral component of membrane	CC	The component of a membrane consisting of gene products and protein complexes that have some part that penetrates at least one leaflet of the membrane bilayer. This component includes gene products that are buried in the bilayer with no exposure outside the bilayer. [GOC:dos, GOC:go_curators]
gmo-miR-206	K02148	0	atp6v1c1a	ENSGMOG00000018397	ENSDARG00000023967	ko01100 Metabolic pathways	GO:0015078	hydrogen ion transmembrane transporter activity	MF	Catalysis of the transfer of hydrogen ions from one side of a membrane to the other." [GOC:ai],IEA,MF ENSGMOG00000018397,ENSGMOT00000020280, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a	K13375	9,9789E-137	tgfb1	ENSGMOG00000018401	ENSDARG00000041502	ko04010 MAPK signaling pathway	GO:0040007	ko04010 MAPK signaling pathway	BF	The increase in size or mass of an entire organism, a part of an organism or a cell. [GOC:bf, GOC:ma]
gmo-miR-206	K13375	9,9789E-137	tgfb1	ENSGMOG00000018401	ENSDARG00000041502	ko04010 MAPK signaling pathway	GO:0040007	ko04010 MAPK signaling pathway	BF	The increase in size or mass of an entire organism, a part of an organism or a cell. [GOC:bf, GOC:ma]
gmo-miR-9	K01581	1,5207E-125	AZIN1	ENSGMOG00000018418	ENSDARG00000052789	ko01100 Metabolic pathways	GO:0003824	catalytic activity	MF	Catalysis of a biochemical reaction at physiological temperatures. In biologically catalyzed reactions, the reactants are known as substrates, and the catalysts are naturally occurring macromolecular substances known as enzymes. Enzymes possess specific binding sites for substrates, and are usually composed wholly or largely of protein, but RNA that has catalytic activity (ribozyme) is often also regarded as enzymatic. [ISBN:0198506732]

gmo-miR-19a			dda1	ENSGMOG00000018498	ENSDARG00000076074					
gmo-miR-9	K03875	4,4546E-10	Fbxl16	ENSGMOG00000018540	ENSDARG00000060915	ko04120 Ubiquitin mediated proteolysis	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000018540,ENSGMOT00000020429, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-19a			C24G6.8	ENSGMOG00000018615	ENSDARG00000089886		GO:0004045			
gmo-miR-19a	K08187	8,9317E-23	SLC16A9	ENSGMOG00000018672	ENSDARG00000013926	ko04919 Thyroid hormone signaling pathway	GO:0055085	ko04919 Thyroid hormone signaling pathway		
gmo-miR-130b	K08187	8,9317E-23	SLC16A9	ENSGMOG00000018672	ENSDARG00000013926	ko04919 Thyroid hormone signaling pathway	GO:0055085	ko04919 Thyroid hormone signaling pathway		
gmo-miR-192			prmt8b	ENSGMOG00000018750	ENSDARG00000040633					
gmo-miR-9	K04511	0	Prickle1	ENSGMOG00000018760	ENSDARG00000045694	ko04310 Wnt signaling pathway	GO:0008270	zinc ion binding	MF	Interacting selectively and non-covalently with zinc (Zn) ions." [GOC:ai],IEA,MF ENSGMOG00000018760,ENSGMOT00000020652, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene

										product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-9	K01645	2,1039 6E-13	GREM2	ENSGMOG0 0000018814	ENSDARG00 000056057	ko04310 Wnt signaling pathway				
gmo-miR-181a			Heatr5b	ENSGMOG0 0000018844	ENSDARG00 000059116		GO:00055 15			
gmo-miR-181a	K02684	0,0041 6553	ctdspl2a	ENSGMOG0 0000018902	ENSDARG00 000060586	ko01100 Metabolic pathways	GO:00055 15	ko01100 Metabolic pathways		
gmo-miR-146	K13126	1,9130 5E-16	A1CF	ENSGMOG0 0000018943	ENSDARG00 000002968	ko03013 RNA transport	GO:00036 76	nucleic acid binding	MF	Interacting selectively and non-covalently with any nucleic acid." [GOC:jl],IEA,MF ENSGMOG00000018943,ENSGMOT00000020869, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a	K10595	0,0047 1378	DAP3	ENSGMOG0 0000018965	ENSDARG00 000078500	ko04120 Ubiquitin mediated proteolysis	GO:00016 66	ko04120 Ubiquitin mediated proteolysis		
gmo-miR-206	K07595	4,4094 4E-68	MAFA	ENSGMOG0 0000018976	ENSDARG00 000017121		GO:00036 77	DNA binding	MF	Any molecular function by which a gene product interacts selectively and non-covalently with DNA (deoxyribonucleic acid). [GOC:dph, GOC:jl, GOC:tb, GOC:vw]
gmo-miR-206	K06109	1,0453 E-103	Rab13	ENSGMOG0 0000019023	ENSDARG00 000034771	ko04530 Tight junction	GO:00055 25	GTP binding	MF	Interacting selectively and non-covalently with GTP, guanosine triphosphate. [GOC:ai]
gmo-miR-146	K06067	0	hdac1-b	ENSGMOG0 0000019056	ENSDARG00 000015427	ko04110 Cell cycle	GO:00044 07	histone deacetylase activity	MF	Catalysis of the reaction: histone N6-acetyl-L-lysine + H2O = histone L-lysine + acetate. This reaction represents the removal of an acetyl group from a histone, a class of proteins complexed to DNA in chromatin and chromosomes. [EC:3.5.1.-, PMID:9893272]

gmo-miR-130b	K12041	2,22164E-62	nl|BL_ORD_ID|412922	ENSGMOG00000019067	ENSDARG00000020699		GO:0015385			
gmo-miR-19a	K07887	2,29747E-35	RAB6A	ENSGMOG00000019073		ko04144 Endocytosis	GO:0005525	ko04144 Endocytosis		
gmo-miR-181a	K07887	2,29747E-35	RAB6A	ENSGMOG00000019073		ko04144 Endocytosis	GO:0005525	ko04144 Endocytosis		
gmo-miR-9	K08367	7,342E-136	RUNX3	ENSGMOG00000019132	ENSDARG00000052826		GO:0001071	nucleic acid binding transcription factor activity	BF	Any process that modulates the frequency, rate or extent of cellular DNA-templated transcription. [GOC:go_curators, GOC:txnOH]
gmo-miR-181a			Tmem50a	ENSGMOG00000019167	ENSDARG00000015757					
gmo-miR-19a			RLBP1	ENSGMOG00000019212	ENSDARG00000045808		GO:0007634			
gmo-miR-19a	K04554	2,8588E-140	UBE2J2	ENSGMOG00000019396	ENSDARG00000061161	ko04141 Protein processing in endoplasmic reticulum		ko04141 Protein processing in endoplasmic reticulum		
gmo-miR-130b	K04554	2,8588E-140	UBE2J2	ENSGMOG00000019396	ENSDARG00000061161	ko04141 Protein processing in endoplasmic reticulum		ko04141 Protein processing in endoplasmic reticulum		
gmo-miR-130b	K09189	3,68927E-07	Phf13	ENSGMOG00000019431	ENSDARG00000078021	ko00310 Lysine degradation	GO:0005515	ko00310 Lysine degradation		
gmo-miR-192	K07374	0	tuba	ENSGMOG00000019479	WBGENE00003175	ko04145 Phagosome	GO:0005525	GTP binding	MF	Interacting selectively and non-covalently with GTP, guanosine triphosphate. [GOC:ai]
gmo-miR-19a	K13302	0	sgk1	ENSGMOG00000019495	ENSDARG00000025522	ko04151 PI3K-Akt signaling pathway	GO:0004672	ko04151 PI3K-Akt signaling pathway		

gmo-miR-11240			Cryba1	ENSGMOG00000019586	ENSDARG00000014803					
gmo-miR-9	K06260	2,37707E-45	Igfals	ENSGMOG00000019723	ENSDARG00000037836	ko04611 Platelet activation	GO:0005515	protein binding	MF	Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules)." [GOC:go_curators],IEA,MF ENSGMOG00000019723,ENSGMOT00000021728, GO:0003674,MF,"Elemental activities, such as catalysis or binding, describing the actions of a gene product at the molecular level. A given gene product may exhibit one or more molecular functions. [GOC:go_curators]
gmo-miR-181a			Tmem100	ENSGMOG00000019877	ENSG00000166292					
gmo-miR-146	K07523	5,86327E-25	LRRN3	ENSGMOG00000019944	ENSDARG00000089923	ko04360 Axon guidance				
gmo-miR-9			Tmem22	ENSGMOG00000019967	ENSDARG00000045447		GO:0016020	membrane protein	CC	Double layer of lipid molecules that encloses all cells, and, in eukaryotes, many organelles; may be a single or double lipid bilayer; also includes associated proteins. [GOC:mah, ISBN:0815316194]
gmo-miR-19a			Tmem22	ENSGMOG00000019967	ENSDARG00000045447		GO:0016020	membrane protein	CC	Double layer of lipid molecules that encloses all cells, and, in eukaryotes, many organelles; may be a single or double lipid bilayer; also includes associated proteins. [GOC:mah, ISBN:0815316194]
gmo-miR-181a	K06087	8,66508E-70	CLDN3	ENSGMOG00000020245	ENSDARG00000069503	ko04530 Tight junction	GO:0016021	ko04530 Tight junction		
gmo-miR-9	K14284	5,3979E-26	tmem223	ENSGMOG00000020259	ENSDARG00000069494	ko03013 RNA transport				
gmo-miR-9	K07809	1,205E-119	Hs3st6	ENSGMOG00000020439	ENSDARG00000059948	ko00534 Glycosaminoglycan biosynthesis - heparan sulfate / heparin	GO:0008146	sulfotransferase activity	MF	Catalysis of the transfer of a sulfate group from 3'-phosphoadenosine 5'-phosphosulfate to the hydroxyl group of an acceptor, producing the sulfated derivative and 3'-phosphoadenosine 5'-phosphate. [EC:2.8.2, GOC:curators]

gmo-miR-192	K01017	6,0382 1E-69	Chst8	ENSGMOG0 0000020446		ko00532 Glycosaminoglyca n biosynthesis - chondroitin sulfate / dermatan sulfate	GO:00081 46	sulfotransferas e activity	MF	Catalysis of the transfer of a sulfate group from 3'-phosphoadenosine 5'-phosphosulfate to the hydroxyl group of an acceptor, producing the sulfated derivative and 3'-phosphoadenosine 5'-phosphate. [EC:2.8.2, GOC:curators]