**Supplementary Table S2:** Allele specific PCR based primers for *Glu-1* and*, Glu-3* their sequences and amplicon size

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| --- | --- | --- | --- |
| **Primer Name** | **Sequence** | **Fragment Size (bp)** | **Reference** |
| *Ax2\** | F: ATGACTAAGCGGTTGGTTCTT  R: ACCTTGCTCCCCTTGTCTTT | 1319 | Ma et al., 2003 [30] |
| *Bx* | F: CGCAACAGCCAGGACAATT  R: AGAGTTCTATCACTGCCTGGT | Bx17 gene (669)  Non Bx17 gene (630 and 766) | Ma et. al, 2003 [30] |
| *Dx5* | F: GGGACAATACGAGCAGCAAA  R: CTTGTTCCGGTTGTTGCCA | 299 | Liu et al., 2008 [31] |
| *GluA3a* | F: GTACGCTTTTGTAGCTTGTGC  R: TGGTGGTTGTTGTTGTTGCTACA | 596 | Zhang et al., 2004 [32] |
| *GluA3b* | F: TTCAGATGCAGCCAAACAA  R: GCTGTGCTTGGATGATACTCTA | 894 | Wang et al., 2010 [33] |
| *GluA3ac* | F: AAACAGAATTATTAAAGCCGG  R: GTGGCTGTTGTGAAAACGA | 573 | Wang et al., 2010 [33] |
| *GluA3d* | F: TTCAGATGCAGCCAAACAA  R: TGGGGTTGGGAGACACATA | 967 | Wang et al., 2010 [33] |
| *GluA3e* | F: AAACAGAATTATTAAAGCCGG  R: GGCACAGACGAGGAAGGTT | 158 | Wang et al., 2010 [33] |
| *GluA3f* | F: AAACAGAATTATTAAAGCCGG  R: GCTGCTGCTGCTGTGTAAA | 552 | Wang et al., 2010 [33] |
| *GluA3g* | F: AAACAGAATTATTAAAGCCGG  R: AAACAACGGTGATCCAACTAA | 1345 | Wang et al., 2010 [33] |
| *GluB3a* | F: CAACAAGCATCAAAACCAAGA  R: TGGCACACTAGTGGTGGTC | 1095 | Wang et al., 2009 [34] |
| *GluB3b* | F: ATCAGGTGTAAAAGTGATAG  R: TGCTACATCGACATATCCA | 1570 | Wang et al., 2009 [34] |
| *GluB3c* | F: CAAATGTTGCAGCAGAGA  R: CATATCCATCGACTAAACAAA | 472 | Wang et al., 2009 [34] |
| *GluB3d* | F: CACCATGAAGACCTTCCTCA  R: GTTGTTGCAGTAGAACTGGA | 662 | Wang et al., 2009 [34] |
| *GluB3e* | F: GACCTTCCTCATCTTCGCA  R: GCAAGACTTTGTGGCATT | 669 | Wang et al., 2009 [34] |
| *GluB3fg* | F: TATAGCTAGTGCAACCTACCAT  R: CAACTACTCTGCCACAACG | 812 | Wang et al., 2009 [34] |
| *GluB3g* | F:CCAAGAAATACTAGTTAACACTAGTC  R: GTTGGGGTTGGGAAACA | 853 | Wang et al., 2009 [34] |
| *GluB3h* | F: CCACCACAACAAACATTAA  R: GTGGTGGTTCTATACAACGA | 1022 | Wang et al., 2009 [34] |
| *GluB3i* | F: TATAGCTAGTGCAACCTACCAT  R: TGGTTGTTGCGGTATAATTT | 621 | Wang et al., 2009 [34] |
| *GluB3j* | F: GGAGACATCATGAAACATTTG  R: CTGTTGTTGGGCAGAAAG | 1500 | Francis et al 1995 [35] |