|  |  |  |  |
| --- | --- | --- | --- |
| **Supplement table 2. SNPs that are located UTR and coding regions within Myo7a gene.** |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **SNP ID** | **Chr** | **Mb** | **Alleles** | **Domain** | **Function** | **B6** | **D2** |  |
| wt37-7-105199914 | 7 | 105.199914 | G/C | 3' UTR |  | G | C |  |
| wt37-7-105200058 | 7 | 105.200058 | A/G | 3' UTR |  | A | G |  |
| wt37-7-105202889 | 7 | 105.202889 | G/A | Exon 44 | Synonymous | G | A |  |
| MRS2233143 | 7 | 105.204349 | C/G | Exon 41 | Synonymous | C | G |  |
| wt37-7-105205302 | 7 | 105.205302 | A/G | Exon 40 | Synonymous | A | G |  |
| wt37-7-105211123 | 7 | 105.211123 | G/A | Exon 38 | Synonymous | G | A |  |
| wt37-7-105218038 | 7 | 105.218038 | A/C | Exon 31 | Synonymous | A | C |  |
| wt37-7-105219559 | 7 | 105.219559 | A/G | Exon 30 | Synonymous | A | G |  |
| wt37-7-105220957 | 7 | 105.220957 | A/G | Exon 28 | Synonymous | A | G |  |
| wt37-7-105223549 | 7 | 105.223549 | G/A | Exon 26 | Synonymous | G | A |  |
| wt37-7-105224609 | 7 | 105.224609 | T/C | Exon 25 | Synonymous | T | C |  |
| wt37-7-105224642 | 7 | 105.224642 | C/T | Exon 25 | Synonymous | C | T |  |
| wt37-7-105225138 | 7 | 105.225138 | A/G | Exon 24 | Synonymous | A | G |  |
| wt37-7-105225632 | 7 | 105.225632 | G/A | Exon 23 | Synonymous | G | A |  |
| wt37-7-105226157 | 7 | 105.226157 | C/T | Exon 22 | Synonymous | C | T |  |
| wt37-7-105226307 | 7 | 105.226307 | T/C | Exon 22 | Synonymous | T | C |  |
| wt37-7-105227380 | 7 | 105.22738 | G/A | Exon 21 | Synonymous | G | A |  |
| wt37-7-105227782 | 7 | 105.227782 | G/A | Exon 20 | Synonymous | G | A |  |
| wt37-7-105227827 | 7 | 105.227827 | A/G | Exon 20 | Synonymous | A | G |  |
| wt37-7-105228451 | 7 | 105.228451 | G/A | Exon 19 | Synonymous | G | A |  |
| wt37-7-105232039 | 7 | 105.232039 | A/G | Exon 16 | Synonymous | A | G |  |
| wt37-7-105232090 | 7 | 105.23209 | A/G | Exon 16 | Synonymous | A | G |  |
| wt37-7-105232120 | 7 | 105.23212 | T/C | Exon 16 | Synonymous | T | C |  |
| wt37-7-105239541 | 7 | 105.239541 | G/A | Exon 14 | Synonymous | G | A |  |
| wt37-7-105239547 | 7 | 105.239547 | T/C | Exon 14 | Synonymous | T | C |  |
| wt37-7-105239564 | 7 | 105.239564 | T/C | Exon 14 | Nonsynonymous | T | C |  |
| wt37-7-105242813 | 7 | 105.242813 | C/T | Exon 10 | Synonymous | C | T |  |
| wt37-7-105242819 | 7 | 105.242819 | T/C | Exon 10 | Synonymous | T | C |  |
| wt37-7-105242843 | 7 | 105.242843 | C/T | Exon 10 | Synonymous | C | T |  |
| wt37-7-105243225 | 7 | 105.243225 | A/G | Exon 9 | Synonymous | A | G |  |
| wt37-7-105244173 | 7 | 105.244173 | A/G | Exon 8 | Synonymous | A | G |  |
| wt37-7-105245723 | 7 | 105.245723 | G/A | Exon 7 | Synonymous | G | A |  |
| wt37-7-105245952 | 7 | 105.245952 | G/A | Exon 6 | Synonymous | G | A |  |
| wt37-7-105246012 | 7 | 105.246012 | G/A | Exon 6 | Synonymous | G | A |  |
| wt37-7-105246235 | 7 | 105.246235 | C/T | Exon 6 | Nonsynonymous | C | T |  |
| wt37-7-105255574 | 7 | 105.255574 | A/G | Exon 3 | Nonsynonymous | A | G |  |
| wt37-7-105267908 | 7 | 105.267908 | A/C | Exon 1 |   | A | C |  |