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| **Supplementary Table 4 | Genotyping primers used in this study.** | | |
| **Affected Gene** | **Primer** | **Type** |
| *fli1a* | ATTTCTCAGGCTCTCCAACAG | Forward |
| TAGCAAGTCGACTGCTGGTG | Reverse |
| *pole* | GTCTGTGGACATTTGATGCTTG | Forward |
| GACTCCAGCTTGGACCCAC | Reverse |
| *tbcb* | ATGAGGAAGAGAGGGCCAAG | Forward |
| CCACTGCTGTTAGGTACATC | Reverse |
| *unc45a* | GGGAGCCAAATAGTATTCAAG | Forward |
| GCGGTACAGGACTGCACTCT | Reverse |
| *pnrc1* | CATAGACAAGACATCACCTG | Forward |
| TGCTTCAGGATGTTTTCTGG | Reverse |
| *ube3d* | TGGATGTGTGGGAGAAGGAC | Forward |
| TCAGAGTGGTGTGTGACCTG | Reverse |
| *naa50* | TGCACTGCTGGTTTACGGTG | Mutant |
| TTAGGCTCTGTGTTGCATGTG | Mutant |
| GTCAGTTCACAGCTAGTTGAC | Wildtype |
| GTTGAGTTACGGCTTTGTTGTG | Wildtype |
| *yeats2* | GTCAAAGTAGAACAGGGC | Forward |
| ATTCCCTCTGATTGTCCC | Reverse |
| *atad5a* | GACAGGCTCTTCAGTGTTGTC | Forward |
| CAGCTTCAAGAGCAAGTCCTG | Reverse |
| *anapc1* | CAGCAGGGCGACTCATTTTG | Forward |
| CTGAACTGGGCTGTCGACTG | Reverse |
| *nek7* | CAATTGAACCACCCCAATGT | Forward |
| AATGGGCATGTGTCCTTACC | Reverse |
| *spata5* | GTCCGCAGGGTCCAGAGTTAC | Forward |
| TGACGGAGCAACAGTTCTGG | Reverse |
| *mat2aa* | CCCAACTAACCAAGCCAAGTT | Forward |
| AGTCTCGCTAGTGGCATAAC | Reverse |
| *nol9* | CCAACAGTGTTCTTCAGAACG | Forward |
| ATGTGGATTGGACCTGGAAAC | Reverse |
| *eif5* | GCTCTAAATAGGCCTCCGACA | Forward |
| CAGTGCATCAAGGGTACACAG | Reverse |
| *pi4kaa* | AAGGTGGAGTGTTGCTTTAAG | Forward |
| CGTGACAGTGTCGTTCTTCAG | Reverse |
| *pip5k1ba* | ACTGAAACACAATCAAGCAAGTG | Forward |
| CTGTTGCTAAAGACATGTTGTG | Reverse |