**Table S6**. PCR primers used to screen for mutants generated by the CRISPR/Cas9 technology and the Mos1 system-mediated Cre insertion.

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| --- | --- |
| Primer name | Sequence |
| *dpy-9* F | GCGATCCCGTAAATCGACAC |
| *dpy-9* R | TCTGACATGCGTTGGTTCCT |
| *rde-8* F | GTGCATGAGGTTATGCGCT |
| *rde-8* R | CTCCTCAATGACACCAGGA |
| *dpy-3* F | CTGGTGGTCCTGGTGGACA |
| *dpy-3* R | TGTCTCAATACTCTTCTCAG |
| *nrde-3* F | TTGCGCAAGAGACACATCTCACC |
| *nrde-3* R | AGTGGCTTTCGTTTTGGATCGG |
| LG II left GT F | GGTCAGAGTTACTAATTTGGCT |
| LG II left GT R | CACCATATCGAAAATGACCAGA |
| LG II right GT F | GTATCGCAGATCTTGTGACAT |
| LG II right GT R | GCGTCCATTGATGAGCGCA |
| LG IV left GT F | CTAGTTTCCTTTGTGGAATTTCG |
| LG IV left GT R | GTTCAATCAAATCCAACGTTCG |
| LG IV right GT F | CCTAACTAATAGAGGAAATACGGT |
| LG IV right GT R | TCAGCATAGACTGGAACAGAC |
| LG X left GT F | CGAGATGATACGCACTGTTGA |
| LG X left GT R | CTTCCCACAGTCTTCAGCTT |
| LG X right GT F | GTGGGCATGATAGTAAAAAGCA |
| LG X right GT R | CATCTTGATCAGTTACTCTTACT |
| *Cre* insertion GT F | GATTGCGTGCGTTATTTTGGA |
| *Cre* insertion GT R | CATGGCACATGCTTCGTGCA |
| W07E6.2 GT F | ACTGCTGTTACGTTAAAAATGTT |
| W07E6.2 GT R | GCTGATAAACAAGCTTTAATGTCT |