**Table S2**. Summary of sgRNA sequences.

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| sgRNA name | Sequence |
| *dpy-9* sgRNA | GACGTCCGCCATATGTTGGACGG |
| *rde-8* sgRNA | GAACGGATCAGTGAAAGGAGAGG |
| *dpy-3* sgRNA | GTTAGCCATTGTATCCATGTTGG |
| *nrde-3* sgRNA #1 | GGTGAGATGGGCTCTAAGCCAGG |
| *nrde-3* sgRNA #2 | GAAGCCACTTTTCACTACTCCGG |
| *pqn-85* sgRNA #1 | GGACATCAAATGGCTCAAACTGG |
| *pqn-85* sgRNA #2 | GGCCAGTTCAGCAGATTCAAAGG |
| W07E6.2 sgRNA | GAGGACGAAAACGAGCTCGGAGG |
| LG II left sgRNA #1 | GAGTGTTCGATAACGTTGGATGG |
| LG II left sgRNA #2 | GCAATTGCTCAATATATTCGTGG |
| LG II left sgRNA #3 | GTAACGGTTGCTAAGGATGAAGG |
| LG II right sgRNA #1 | GCTGGCAAAAGTGGATCATTTGG |
| LG II right sgRNA #2 | GTTGGACTGGCTGGCAAAAGTGG |
| LG II right sgRNA #3 | GGGCGAGGGATCTGAACTTCCGG |
| LG IV left sgRNA #1 | GCACGTGGAAGAGTTCACCATGG |
| LG IV left sgRNA #2 | GAATGTCCATAGAAAGGAATAGG |
| LG IV left sgRNA #3 | GAAAGCTCTCGAGATGATGATGG |
| LG IV right sgRNA #1 | GTGAGTCTCGATTTGGTAGCAGG |
| LG IV right sgRNA #2 | GAGTCCTACCATGCAGTAGCCGG |
| LG IV right sgRNA #3 | GACGATGTTTGAAATATCTGTGG |
| LG X left sgRNA #1 | GACTGACTTCAGCTACGCAGCGG |
| LG X left sgRNA #2 | GACACGTCCATATCTCGTTAAGG |
| LG X left sgRNA #3 | GGCTACAGTATATGCAGGCATGG |
| LG X right sgRNA #1 | GCCGATTTATGGAAGAGCATTGG |
| LG X right sgRNA #2 | GGATAGGACGATCGACGCAACGG |
| LG X right sgRNA #3 | GTGGTACATGTATTGATACATGG |