Supplementary file 1

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| **Strain**  | **El Paco genome** **reference, v1, 2017** | **Wormbase designation** | **Allele** | **Guide RNA target sequence (PAM sequence underlined)** | **ssDNA template** | **Genotyping primer sequences** |
| *cenpc::V5* | *UMM-**S71-6.7mRNA-1* | *PPA37734* | *ie1007* | ATGAAGAGATGGATTATAGTAGG | GGATATTAAAAAAAGGGGGTAAAATTGTACATCGCAAAAGGATGAGGAGTCATTTAATTCATCTTACTATAATCCATCTCTTCAGGTGGAGTCGAGTCCAAGAAGTGGGTTTGGAATTGGCTTTCCAGATCCGGCTCCTTCATTCTCTTCATCGAACTCTTCCACTTCCTTCTCCTTCTGCTCTTTTCTCTTCTTGTT | (f)TTTCTCCAGGAGTGGTTATCG (r)ACATCGCAAAAGGATGAGGAG |
| *cosa-1::3xflag* | *UMM-**S57-3.22mRNA-1* | *PPA23791* | *ie1003* | CTTTATTCTTCATTTTACAGTGG  | GATCATCCCAGGGAGAGAACGACCTACCCAAACAGAGATCATAGATCTAATTATCCACTGGGAGCCGGATCTGATTATAAAGACCATGATGGAGACTATAAGGATCACGATATTGATTACAAAGACGATGATGATAAATAAAATGAAGAATAAAGAGTATTAAATTTATGTTTGTGTTCGTTTTTGTAATTACTGCTTTG  | (f)ACGACCTACCCAAACAGAGA (r)CGGATGTGGAAAGACGTACC |
| *dmc-1* mutant | *UMM-**S442-1.74mRNA-1* | —  | *ie1005* | TTCGATAAGCTGCTTGGAGGTGG  | ATTTAATTGTAACATTCAGACATCCAGTTGATCAACTAACCTCCGTTATTGCCTGACTTTCGATTCCACCactagtgTCCAAGCAGCTTATCGAATTCAACACTTCCAGTGGAGATTTTAAAGACTTGCTTGCGTCGTGAACACACT | (f)GGACTCTCGGAGGCTAAAGT (r)ATTCTCGAGCATTGCTTCCT |
| *dmc-1::V5* | *UMM-**S442-1.74mRNA-1* | —  | *ie1001* | GCAACGTTTGCCATTGCAGCAGG  | GATAAAACATGATCTTTTGTCCTTCATAATTGATTAGGTGGAGTCGAGTCCAAGAAGTGGGTTTGGAAT TGGCTTTCCATCCTTTGCATCGACAATTCCTCCTGC**G**GC**G**ATGGCAAACGTTGCTTCGTTCTCAGGCATATC  | (f)TGCCTGAGAACGAAGCAACG (r)ACATGAGATGGCACAAAGGAC  |
| *hop-1* | *UMM-**S341-6.31mRNA-1* | *PPA10281* |  |  |  |  |
| *rad-51* mutant  | *UMM-**S442-1.74mRNA-1* | *PPA42255* | *ie1006* | GTCGAGAACGAGGAGAATGCCGG  | ATTTATTGGTTACCTCAAGGGACATGATGGACTGGCAGGCGAGTCCGGCATACTAGTTTCTCCTCGTTCTCGACATCAGCGTCGACGTGCGCCATTTGAG CGGACAT  | (f)TTCTAGTGACGCGTGTTGTT (r)ACGAATCCTCGTTGCTGAAG |

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| *rad-51::V5* | *UMM-**S442-1.74mRNA-1* | *PPA42255* | *ie1008* | GACCTTCTCCATCACAACAACGG | GATGGTCAGATAACAGCTATGGAGTGTGTAAATTGGAGAGAGTTAGACGACTAGGTGGAGTCGAGTCCAAGAAGTGGGTTTGGAATTGGCTTTCCATTATCCTTTCCATCTTCGATGCCCGTGGTGGTGATGGAGAAGGTCGCCTCGCCCTCGGCCAGGCATGGAGATTG | (f)GATTCATCTCTGTTTCACAGG(r)GATCTCGGTTTCTCTCTTGGAAA |
| *spo-11* mutant | *UMM-**S230-10.9mRNA-1* | *PPA33054* | *ie1004* | ATTCAGAACTTGGCAGAGATCGG | ACAAACATCTTTTTGCACGACAGGATTCTCTCAATCGATCAGTTTCCGATAACTAGTACTCTGCCAAGTTCTGAATATGCAAAGATGTCAAGTCAATGTGGTAA GT | (f)GGAAATCCTTCGTTCTCACTATGG (r)GTCTCAATATCAGACAATTTCATTCCG |
| *syp-4::HA* | *UMM-**S245-8.16mRNA-1* | *—* | *ie1002* | GGAGGAGAATTCAACTTCTTCGG | CAAATGGAGGTGGCGGCGGGGGAGGAGGAGAGTTTAATTTTTTTGGTTTTTACCCCTACGATGTCCCAGATTATGCTTAAACCAATTTTTTCGAGCTTGGTGTAATGTATCCA | (f)CCCGTTGATGATGCTACCAG (r)GATACATTACACCAAGCTCGAA |