**S1 Table. Primers used in this study.**

|  |  |  |
| --- | --- | --- |
| *Name* | *Sequence* | *Reference* |
| OA54 | ACGCTAACATCAATTCCCATATCAA | This study |
| ARG8\_D | GCACCACATGTACATATCACGTAAG | a |
| kanB | CTGCAGCGAGGAGCCGTAAT | a |
| kanC | TGATTTTGATGACGAGCGTAAT | a |
| hphC | AGCAGACGCGCTACTTCGAG | This studyb |
| hphB | ACTTCCGGAATCGGGAGCGC | This studyb |
| natC | TCGTGGTCGTCTCGTACTCC | This studyc |
| RAD27\_A | GCTGGTAAGTTATGATAGAAAGCCA | a |
| RAD27\_B | CTTCATCTTTTCCAATTCTGTTGTT | a |
| RAD27\_C | CCTTCTTGTTGAGACATTTGACTTT | a |
| RAD27\_D | TTAATGTTGCGTTTTGTGTTTCTTA | a |
| DIN7\_A | TTGTAACATTCATTTCAAAGCACAT | a |
| DIN7\_B | GCAATAATCAATAATACATTTCGCC | a |
| DIN7\_C | GGGTGTAGTCACTGCTATGAAGATT | a |
| DIN7\_D | ATGGTGTTATTTTGATGGTTGATTT | a |
| DUN1\_A | AGAAGCCCCTGAATACCATAAATAG | a |
| DUN1\_B | ATATTTTCACAGCTACTTGCTGACC | a |
| DUN1\_C | GAAGTCCTCACAAAGAAAGGATACA | a |
| DUN1\_D | CGATGTCAGAGATTTAGAGGAAAAA | a |
| RRM3\_A | TATCTTCCCTTACCGGATTTATTTC | a |
| RRM3\_B | TTAGCAGTGGTTTTATTTTCTTTGG | a |
| RRM3\_C | ATAAGGAAAAATTCCCCTATGTGAG | a |
| RRM3\_D | GGCTAGATCTCCTTTTTCAGTTTCT | a |
| OA152 | TAGTCGAGAGTAACAAGTAAAGG | This study |
| OA153 | TTTGAAATAATGCTTCTCATG | This study |
| 5-sml1 | CCAAACGGGCTCCACTACC | d |
| 3-sml1 | TGGCGCTAGCGATATCTAGC | d |
| SML1\_A | CATATCGTTACTGTTTTGGAACATCGC | a |
| SML1\_B | AGACAACATAGGAACCTCAGCCATAGGT  | a |
| SML1\_C | TGGAGGAGAGACTCAACTCTATCGATCA | a |
| SML1\_D | TAAAGGGAAAGGAAAATGCACG | a |
| MSH1\_D | TCCTTACCGTAATAAATATCCACCA | a |
| MSH1\_C1 | ACTGGGCTATCTTGATACCTTATC | This study |
| OA112 | CAATCTTGATATATACCAGATT**A**AACTCTTTCTTCACTGAATTTCTTATC | This studye |
| OA111 | GATAAGAAATTCAGTGAAGAAAGAGTT**T**AATCTGGTATATCAAGATTG | This studye |
| OA85 | ATATACCTCTATACTTTAACGTCAAGGAGAAAAAACTATA*ATGGGTATCCAAGGTCTTCTTC* | This studyf |
| OA86 | ACGTTGTAAAACGACGGCCAGTGAATCCGTTTGACCCGG*TTTACCTTTATAAACAAATTGGG* | This studyg |
| OA68 | ATATACCTCTATACTTTAACGTCAAGGAGAAAAAACTATA*ATGTCTCAAGTTCAAGAACAAC* | This studyf |
| OA69 | ACGTTGTAAAACGACGGCCAGTGAATCCGTTTGACCCGG*CTCGTCTTCTTCTCTGGGGTCAC* | This studyg |

a Saccharomyces Genome Deletion Project. RRID:SCR\_014961. Available: http://www-sequence.stanford.edu/group/yeast\_deletion\_project/

b Primer specific for the *hphMX4* deletion cassette for verification of correct integrations at deleted loci.

c Primer specific for the *natMX4* deletion cassette for verification of correct integrations at deleted loci.

d Dmowski M, Rudzka J, Campbell JL, Jonczyk P, Fijalkowska IJ (2017) Mutations in the Non-Catalytic Subunit Dpb2 of DNA Polymerase Epsilon Affect the Nrm1 Branch of the DNA Replication Checkpoint. PLoS Genet 13: e1006572.

e The change introduced in the *RAD27* sequence, corresponding to the sequence of the *rad27-R325\** allele, is marked in bold.

f In italics, the sequence corresponding to the N-terminal part of *EXO1*, the rest of the sequence is homologous to the proximal to START codon part of the *GAL1* promoter. Analogous for the primer OA68 that was used for *GAL1*-*RAD51*- construction.

g In italics, the sequence corresponding to the C-terminal part of *EXO1*, the rest of the sequence is homologous to the sequence encoding a linker peptide followed by a fragment of the lacZ protein (after Karniely et al., 2006). Analogous for the primer OA69 that was used for *GAL1*-*RAD51*- construction.