**Table S2: Plasmids**

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| Plasmid Name | Brief Description of Use | Source |
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| pAG32 |
| pCAS026 |
| pFA6-3HA-*kanMX6*  |
| pGAL414 |
| pJHU1263 |
| pJHU1264 |
| pLenti\_Ubc\_V5\_DEST |
| pRS403 |
| pRS405 |
| pRS406 |
| pRS317 |
| pUC19 |
| pRK1000 |
| pRK1006 |
| pRK1009 |
| pRK1012 |
| pRK1028 |
| pRK1033 |
| pRK1035 |
| pRK1036 |
| pRK1040 |
| pRK1065 |
| pRK1083 |
| pRK1084 |
| pRK1088 |

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| *XRS2* cloning |
| *spCas9/URA3/CEN/sgRNA* plasmid |
| *MRE11* cloning |
| *TEL1* cloning |
| *rad531-4/9-12AQ-3xFLAG* plasmid |
| *RAD53-3xFLAG* plasmid |
| *RAD50* cloning |
| *TEL1* cloning |
| *RAD50* cloning |
| *MRE11* cloning |
| Plasmid-end joining assay |
| *RAD50* cloning, *XRS2* cloning |
| *RAD50*/pRS405 |
| *RAD50-G6-V5-LEU2* plasmid |
| *XRS2-13myc-KANMX* plasmid |
| *MRE11-3HA-URA3* plasmid |
| *XRS2-13myc-HYGMX* plasmid |
| *RAD50-G6-V5-TRP1* plasmid |
| *rad50-10A-G6-V5-TRP1* plasmid |
| *mre11-4A-3HA-URA3* plasmid |
| *xrs2-4A-13myc-HYGMX* plasmid |
| *TEL1* cloning |
| *RAD53* cloning |
| *RAD53* cloning |
| *TEL1-hy909* cloning |

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| Goldstein and McCusker 1999 |
| A gift from the Haber Lab |
| Bahler et al. 1998 |
| Mumberg et al. 1995 |
| Lee et al. 2003 |
| Lee et al. 2003 |
| Gateway Vector (Life Technologies) |
| Sikorski and Hieter 1989 |
| Sikorski and Hieter 1989 |
| Sikorski and Hieter 1989 |
| Sikorski and Boeke 1991 |
| Norrander et al. 1993 |
| This study |
| This study |
| This study |
| This study |
| This study |
| This study |
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