## Supplementary Table 24 - Primers for deletion of native *ZWF1, GND1, SOL3, RKI1, TAL1, TKL1* and *RPE1* ORFs

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| Primer number | Primer name | Sequence (5’ to 3’) |
| Primers to make repair fragment | | |
| 7363 | FW\_Gnd1\_repair | TAAACCTGTATTGTTGCCATTACAGAAAAAAGCCACTTTCTATACAAAAACTACAATAAATTCAGAGTGTTGCCAGAATGTGCTTCTGACAACTTGCCAGTAGACAAGGATATCCATATC |
| 7364 | RV\_Gnd1\_repair | GATATGGATATCCTTGTCTACTGGCAAGTTGTCAGAAGCACATTCTGGCAACACTCTGAATTTATTGTAGTTTTTGTATAGAAAGTGGCTTTTTTCTGTAATGGCAACAATACAGGTTTA |
| 8868 | FW\_zwf1\_repair | CAATTGGCTGTATAGACAGAAAGAGTAAATCCAATAGAATAGAAAACCACATAAGGCAAGAGATACGAAGGATAATTAGAAAAATGCAAGCACATTCATTTATCGGCTAAGTCACTGAAA |
| 8869 | RV\_zwf1\_repair | TTTCAGTGACTTAGCCGATAAATGAATGTGCTTGCATTTTTCTAATTATCCTTCGTATCTCTTGCCTTATGTGGTTTTCTATTCTATTGGATTTACTCTTTCTGTCTATACAGCCAATTG |
| 9281 | RPE1\_repair oligo fw | CAATTTCATGCAAGAAGGCCATTTGCTAATTCCAAGAGCGAGGTAAACACACAAGAAAAATTGTACATATGCGGCATTTCTTATATTTATACTCTCTATACTATACGATATGGTATTTTT |
| 9282 | RPE1\_repair oligo rv | AAAAATACCATATCGTATAGTATAGAGAGTATAAATATAAGAAATGCCGCATATGTACAATTTTTCTTGTGTGTTTACCTCGCTCTTGGAATTAGCAAATGGCCTTCTTGCATGAAATTG |
| 16891 | SOL3\_repair oligo fw | GCCTCGAGGATAATAGAAGGCAATGCACCATCAATTGCTTTACCCCTGGTCCGCGACCAAAAAAGACACACATGCGAGCTTTCGAACCTCAGATGCTAATATTACGTGTTATATATACCA |
| 16892 | SOL3\_repair oligo rv | TGGTATATATAACACGTAATATTAGCATCTGAGGTTCGAAAGCTCGCATGTGTGTCTTTTTTGGTCGCGGACCAGGGGTAAAGCAATTGATGGTGCATTGCCTTCTATTATCCTCGAGGC |
| 16899 | RKI1\_repair oligo fw | TGTTACATAAACTTGGTTACCGCATACTGCAACCTCATATAAATACAACATAGGAAAGAAGCAGATCAAAGGCAAAGACAGAAACCGTAGTAAAGGTTGACTTTTCACAACAGTGTCTCC |
| 16900 | RKI1\_repair oligo rv | GGAGACACTGTTGTGAAAAGTCAACCTTTACTACGGTTTCTGTCTTTGCCTTTGATCTGCTTCTTTCCTATGTTGTATTTATATGAGGTTGCAGTATGCGGTAACCAAGTTTATGTAACA |
| 16901 | TKL1\_repair oligo fw | ACAACAGAGAAGGAAGCTCATCCCAAGCAACTCTACATAGTTACCTCTTTAGCAAACAAAATTCTGATCGTAGATCATCAGATTTGATATGATATTATTTGTGAAAAAATGAAATAAAAC |
| 16902 | TKL1\_repair oligo rv | GTTTTATTTCATTTTTTCACAAATAATATCATATCAAATCTGATGATCTACGATCAGAATTTTGTTTGCTAAAGAGGTAACTATGTAGAGTTGCTTGGGATGAGCTTCCTTCTCTGTTGT |
| 16907 | TKL1\_repair oligo fw | ACAACAGAGAAGGAAGCTCATCCCAAGCAACTCTACATAGTTACCTCTTTAGCAAACAAAATTCTGATCGTAGATCATCAGATTTGATATGATATTATTTGTGAAAAAATGAAATAAAAC |
| 16908 | TKL1\_repair oligo rv | GTTTTATTTCATTTTTTCACAAATAATATCATATCAAATCTGATGATCTACGATCAGAATTTTGTTTGCTAAAGAGGTAACTATGTAGAGTTGCTTGGGATGAGCTTCCTTCTCTGTTGT |
| 16911 | TAL1\_repair oligo fw | AGGTAAAATTTAGTACGATAGTAAAATACTTCTCGAACTCGTCACATATACGTGTACATAGGAAGTATCTCGGAAATATTAATTTAGGCCATGTCCTTATGCACGTTTCTTTTGATACTT |
| 16912 | TAL1\_repair oligo rv | AAGTATCAAAAGAAACGTGCATAAGGACATGGCCTAAATTAATATTTCCGAGATACTTCCTATGTACACGTATATGTGACGAGTTCGAGAAGTATTTTACTATCGTACTAAATTTTACCT |
| Diagnostic primers to check gene deletion | | |
| 1046 | TAL1Rv1 | AAGAACACCGAGCGGCTTTG |
| 1047 | TAL1Fw1 | CTGTACACTAGGAAGCCCTGTT |
| 2122 | BG26-DF | GCTGCAGTATTGTTCCTGAG |
| 2123 | BG26-DR | CCTGTTTGCCTTTCCTTACG |
| 4494 | RPE1 DG fw | TATCCAAGTCGAGCTGGGAAAG |
| 4495 | RPE1 DG rv | CCCATGAGTTAGGCACTTACG |
| 5598 | TKL1 DG fw | CGTTCCGTTCGCAATCTC |
| 5599 | TKL1 DG rv | GGTGTGATTCTCTCGAAGG |
| 8566 | FW\_zwf1\_outside | GGGTGGCGAATTCTTCAATG |
| 8567 | RV\_zwf1\_outside | ATTGCGTACGATGCGGTATG |
| 16893 | SOL3\_dg fw | TGTCGCTGCTATCTACTGCG |
| 16894 | SOL3\_dg rv | GATGAGGCACGCAAAGGTTG |
| 16901 | RKI1\_dg fw | CATGGCCCAGATTGCTTGTG |
| 16902 | RKI1\_dg rv | ATCCGGACAGGGTCTTGTTG |