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## Supplementary Table 17 - Primers for deletion of *GND2, NQM1, SOL4* and *TKL2*

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| Primer number | Primer name | Sequence (5’ to 3’) |
| Primers to make repair fragments | | |
| 7299 | Gnd2\_repair\_FW\_new | AAGAATTCGTAGGTGCAGGTGAGCATATTGCCGGATAAGTGT  AGTTACGCAACTACAATTGTTACTAAGGCCCAATCCGGTTGGA  GAAGAACTATTGCCCTTGCTGCTACTTACGGTATT |
| 7300 | Gnd2\_repair\_RV\_new | AATACCGTAAGTAGCAGCAAGGGCAATAGTTCTTCTCCAACCG  GATTGGGCCTTAGTAACAATTGTAGTTGCGTAACTACACTTATC  CGGCAATATGCTCACCTGCACCTACGAATTCTT |
| 9504 | SOL4\_repair oligo fw | CAGCAGTTTTCCAAACAAAGAATGCCATTCATCAAATAATCCAC  AACCACCTCAAGAAAATTACACTCGTCTTTATACGAAACTGGCT  CCGTTAATCACGACAGACAACCTTAATTACAT |
| 9505 | SOL4\_repair oligo rv | ATGTAATTAAGGTTGTCTGTCGTGATTAACGGAGCCAGTTTCG  TATAAAGACGAGTGTAATTTTCTTGAGGTGGTTGTGGATTATTT  GATGAATGGCATTCTTTGTTTGGAAAACTGCTG |
| 9509 | TKL2\_repair oligo fw | TTGTTGGGAGGAGTCCTGAATAAGGAGTGTCGAATATAGGGA  GCTTCATTCGTTGTCAAGGAAGTAAACAGTTCTTTGCTATTTCA  CACTTCCTGGTTGATGGTCACTTGCTGCCTGAAA |
| 9510 | TKL2\_repair oligo rv | TTTCAGGCAGCAAGTGACCATCAACCAGGAAGTGTGAAATAG  CAAAGAACTGTTTACTTCCTTGACAACGAATGAAGCTCCCTATA  TTCGACACTCCTTATTCAGGACTCCTCCCAACAA |
| 12570 | NQM1\_repair oligo fw | TTCTTGCTAGCGTAAGTCATAAAAAATAGGAAATAATCACATATATACAAGAAATTAAATTCATTAAGAGTAGAGGTACCTACTTATATATATAAATATATATATACCACTTTCCTTTTC |
| 12571 | NQM1\_repair oligo rv | GAAAAGGAAAGTGGTATATATATATTTATATATATAAGTAGGTACCTCTACTCTTAATGAATTTAATTTCTTGTATATATGTGATTATTTCCTATTTTTTATGACTTACGCTAGCAAGAA |
| Diagnostic primers to check gene deletion | | |
| 7258 | FW\_gnd2KO\_check | TCTGACAGGTGGCAGTTTCC |
| 7259 | RV\_gnd2KO\_check | ATCCGAAAGGCGGCAATAGG |
| 9506 | SOL4\_dg fw | GGGTGGACGTTTAAGCATAC |
| 9507 | SOL4\_dg rv | GTATCACCGGGTGAGCTATG |
| 1360 | TKL2 dis500 fw | TCTTAATGGTGGCTCGCTGTC |
| 1361 | TKL2 dis500 rv | TCAATGCAGCCCATACACTC |
| 12572 | NQM1\_dg fw | CCTTGATCTGGCTCTGGCTC |
| 12573 | NQM1\_dg rv | CGCAAGGTAATTACGCCACG |