**Supplementary File 3**

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| **Names** | **Oligonucleotides used for synthesizing sgRNA** |
| *parp1*\_Oligo\_1 | TAATACGACTCACTATAGGTAGCACCTCCACTCTCAAGTTTTAGAGCTAGAAATAGC |
| *parp1*\_Oligo\_2 | TAATACGACTCACTATAGGAGCGGGAGGAGCGTCTTTGTTTTAGAGCTAGAAATAGC |
| *parp1*\_Oligo\_3 | TAATACGACTCACTATAGGTCGAGTCGGGACCACCATGTTTTAGAGCTAGAAATAGC |
| *parp1*\_Oligo\_4 | TAATACGACTCACTATAGGCTTCATGCCGAAGTCGTGGTTTTAGAGCTAGAAATAGC |
| *ripk1l*\_Oligo\_1 | TAATACGACTCACTATAGGCACCAGGACCCTCTGCAGGTTTTAGAGCTAGAAATAGC |
| *ripk1l\_*Oligo*\_2* | TAATACGACTCACTATAGGCCGGGACGCTGTGCTACAGTTTTAGAGCTAGAAATAGC |
| *ripk1l*\_Oligo\_3 | TAATACGACTCACTATAGGAGGATGGAGATTATTCATGTTTTAGAGCTAGAAATAGC |
| *ripk1l*\_Oligo\_4 | TAATACGACTCACTATAGGAGGAGCTGTATCCCAGAGGTTTTAGAGCTAGAAATAGC |
| *casp3a*\_Oligo\_1 | TAATACGACTCACTATAGGCTTGGCATCAACCTGCATGTTTTAGAGCTAGAAATAGC |
| *casp3a*\_Oligo\_2 | TAATACGACTCACTATAGGTACGTCAGTGCCATTGCGGTTTTAGAGCTAGAAATAGC |
| *casp3a*\_Oligo\_3 | TAATACGACTCACTATAGGATAATCTGCGCAACTGTCGTTTTAGAGCTAGAAATAGC |
| *casp3a*\_Oligo\_4 | TAATACGACTCACTATAGGTCAGTCACGGCGATGAGGGTTTTAGAGCTAGAAATAGC |
| *casp3b*\_Oligo\_1 | TAATACGACTCACTATAGGATCCATCTGAACGAGTCCGTTTTAGAGCTAGAAATAGC |
| *casp3b*\_Oligo\_2 | TAATACGACTCACTATAGGATCATCTGTGAGACGGTCGTTTTAGAGCTAGAAATAGC |
| *casp3b*\_Oligo\_3 | TAATACGACTCACTATAGGAGACGACGGGCTGATCTAGTTTTAGAGCTAGAAATAGC |
| *casp3b*\_Oligo\_4 | TAATACGACTCACTATAGGGTTTCTCCAGGCCTGCCGGTTTTAGAGCTAGAAATAGC |
| *tdp1*\_Oligo\_1 | TAATACGACTCACTATAGGAGCATCCGCTCCCTCCATGTTTTAGAGCTAGAAATAGC |
| *tdp1*\_Oligo\_2 | TAATACGACTCACTATAGGATCCGCCAGAATTTAGGTGTTTTAGAGCTAGAAATAGC |
| *tdp1*\_Oligo\_3 | TAATACGACTCACTATAGGGCTCCAGAGCTCGCCAACGTTTTAGAGCTAGAAATAGC |
| *tdp1*\_Oligo\_4 | TAATACGACTCACTATAGGAGAGCGATGGCACGTGCTGTTTTAGAGCTAGAAATAGC |
| scaffold oligo | AAAAGCACCGACTCGGTGCCACTTTTTCAAGTTGATAACGGACTAGCCTTATTTTAACTTGCTATTTCTAGCTCTAAAAC |
| **Names** | **qPCR primers** |
| *parp1*-F | CAGACCCAAGAGCTACAGTATC |
| *parp1*-R | GGATCTTCAGCAGGTATTTCAGG |
| *ripk1l*-F | ACCACCAGCAGATACAAAGAG |
| *ripk1l*-R | TTCGCTCAGACCCAGTTTAC |
| *casp3a*-F | CCAGATGGTCGTGTAAGGATC |
| *casp3a*-R | GTTCACTGCCATACTTTGTCATC |
| *casp3b*-F | CATTGAGTGTGACGGTGTAGG |
| *casp3b*-R | GGAGATAAACCAGGAGCCATTAG |
| *tdp1*-F | AGAATGTGTTTCCGGCCTG |
| *tdp1*-R | TGTCTGGTGCTTGAGTGTATG |
| *actb1*-F | ATCTTCACTCCCCTTGTTCAC |
| *actb1*-R | TCATCTCCAGCAAAACCGG |
| *rplp0-*F | CAACCTTGTCTTTAAACCGGC |
| *rplp0*-R | GCCCACGATGAAACACTTG |

**Oligonucleotides used for sgRNA synthesis (gene knockdown) and qPCR primers**.

Abbreviations: *parp1*, *poly (ADP-ribose) polymerase 1*; *ripk1l*, *receptor (TNFRSF)-interacting serine-threonine kinase 1, like*; *casp3a*: *caspase 3, apoptosis-related cysteine peptidase a*; *casp3b*: *caspase 3, apoptosis-related cysteine peptidase b*; *tdp1*, *tyrosyl-DNA phosphodiesterase 1*; *actb1*: *actin, beta 1*; *rplp0*: *ribosomal protein, large, P0*.