

**Table S1:** Sequence for gBlock which contains 20 bp target size (N), U6 promoter, gRNA scaffold and a termination signal. A gBlock containing each guide sequence was ordered from Integrated DNA Technologies and used for CRISPR experiments.

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|-----------------|--|
| <b>gBlock</b>   | TGTACAAAAAGCAGGCTTTAAAGGAACCAATTCAGTCGACTGGATCCG<br>GTACCAAGGTCGGGCAGGAAGAGGGCCTATTTCCCATGATTCCTTCATA<br>TTTGCATATACGATACAAGGCTGTTAGAGAGATAATTAGAATTAATTTGAC<br>TGTAACACAAAGATATTAGTACAAAATACGTGACGTAGAAAGTAATAATT<br>TCTTGGGTAGTTTGCAGTTTTAAATTATGTTTTAAAATGGACTATCATAT<br>GCTTACCGTAACTTGAAAGTATTTTCGATTTCTTGGCTTTATATATCTTGTG<br>GAAAGGACGAAACACCGNNNNNNNNNNNNNNNNNNNGTTTTAGAGCTA<br>GAAATAGCAAGTTAAATAAGGCTAGTCCGTTATCAACTTGAAAAAGTGG<br>CACCGAGTCGGTGCTTTTTTTCTAGACCCAGCTTTCTTGTACAAAGTTGG<br>CATTA |
| <b>PDL1 g1</b>  | GCTCCAAAGGACTTGTACGG   |
| <b>PDL1 g2</b>  | ACTTGTACGTGGTGGAGTAG   |
| <b>PDL1 g3</b>  | TATGGCAGCAACGTCACGAG   |
| <b>STAT1 g1</b> | GACTCCAAGTTCCTGGAGCG   |
| <b>STAT1 g2</b> | CAGCTGGACTCCAAGTTCCG   |
| <b>STAT1 g3</b> | TACGATGACAGTTTCCCCAG   |
| <b>HVEM g1</b>  | GGGTCGGCACCCCTGGAGCCG  |
| <b>HVEM g2</b>  | CCTGAAGGTGTTGTCTGTAG   |
| <b>HVEM g3</b>  | TCTGTAGGGGCCTGGCTCCG   |
| <b>IFNAR g1</b> | GGCGCGGCGGCCCTGGTGCG   |
| <b>IFNAR g2</b> | CTGGTGGCCGGGGCGCCTTG   |
| <b>IFNGR g1</b> | CCCGCAGGCGGCAGCTGGCG   |
| <b>IFNGR g2</b> | GTCCTGATGCTGTCTGCGAG   |