**Table S1. Primers used in this study**

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| --- | --- |
| Primer names | Sequence |
| ACTB\_gRNA5\_F | CACCGGCCGCGCTCGTCGTCGACAA |
| ACTB\_gRNA5\_R | AAACTTGTCGACGACGAGCGCGGCC |
| ACTB\_PAM\_F | CGCTCGTCGTTGATAACGGCTCCGGCATGTGCAAG |
| ACTB\_PAM\_R | GCCGTTATCAACGACGAGCGCGGCGATATCATCATCC |
| STAT1\_gRNA1\_F | CACCGCCTAGAAACACAGGATGTGA |
| STAT1\_gRNA1\_R | AAACTCACATCCTGTGTTTCTAGGC |
| STAT1\_PAM\_F | CTCTGTTGCTTCACATCCTGTGTTTCTAGGGAAATGAAAGAAAGGCC |
| STAT1\_PAM\_R | GGATGTGAAGCAACAGAGTAGCAGGAGGGAATCACAGATGAGAAGG |
| IRF9\_gRNA2\_F | CACCGCTCAGCTACTTCCGCCTGCG |
| IRF9\_gRNA2\_R | AAACCGCAGGCGGAAGTAGCTGAGC |
| IRF9\_PAM\_F | CCTTGGGACAGAGTATCCCCCGCAGGCGCAAGC |
| IRF9\_PAM\_R | AATTGCTTGCGCCTGCGGGGGATACTCTGTCCCAAGGGTAC |
| USP18\_gRNA3\_F | CACCGGCAAATCTGTCAGTCCATCC |
| USP18\_gRNA3\_R | AAACGGATGGACTGACAGATTTGCC |
| USP18 PAM\_F | CATCCTCGCTGAGTCCTCGCAGTCCCCGGC |
| USP18 PAM\_R | CTCAGCGAGGATGGACTGACAGATTTGCCTCAGGAGCC |
| shRNA\_USP18 | TAAAAAAGGAGAAGCATTGTTTTCAAATCTCTTGAATTTGAAAACAATGCTTCTCCTGGG |
| shRNA\_neg | TAAAAACAGTCGCGTTTGCGACTGGTCTCTTGAACCAGTCGCAAACGCGACTGGGG |
| shRNA\_SOCS1 | CCGGGCACTTCCGCACATTCCGTTCCTCGAGGAACGGAATGTGCGGAAGTGCTTTTTG |