Supplementary Table 1.sgRNA [sequence](javascript:;)s used in the study

|  |  |
| --- | --- |
| Primer | Sequence (5′→3′) |
| PGRN Knock-in sgRNA1 forward | accgcagccctcgggaccccact |
| PGRN Knock-in sgRNA1 reverse | aaacagtggggtcccgagggctg |
| PGRN Knock-in sgRNA2 forward | accgcagagggcaccctccgagt |
| PGRN Knock-in sgRNA2 reverse | aaacactcggagggtgccctctg |
| PGRN Knock-in sgRNA3 forward | accgcagggaaggccttagattg |
| PGRN Knock-in sgRNA3 reverse | aaaccaatctaaggccttccctg |
| PGRN Knock-in sgRNA4 forward | accggccacagggtccactgaaa |
| PGRN Knock-in sgRNA4 reverse | aaactttcagtggaccctgtggc |
| PGRN promoter sgRNA1 forward | accgcgagggagtgttatgaatt |
| PGRN promoter sgRNA1 reverse | aaacaattcataacactccctcg |
| PGRN promoter sgRNA2 forward | accggcgcctgcaggatgggtta |
| PGRN promoter sgRNA2 reverse | aaactaacccatcctgcaggcgc |
| PGRN promoter sgRNA3 forward | accgcgtcgggacagcctcagca |
| PGRN promoter sgRNA3 reverse | aaactgctgaggctgtcccgacg |
| PGRN promoter sgRNA4 forward | accgttggagaatcatgtgacgt |
| PGRN promoter sgRNA4 reverse | aaacacgtcacatgattctccaa |
| PGRN promoter sgRNA5 forward | accgatctctagcaaactccccc |
| PGRN promoter sgRNA5 reverse | aaacgggggagtttgctagagat |
| PGRN promoter sgRNA6 forward | accggagatgatagcgcgtgtct |
| PGRN promoter sgRNA6 reverse | aaacagacacgcgctatcatctc |
| PGRN promoter sgRNA7 forward | accgtggggcattgacagtgcga |
| PGRN promoter sgRNA7 reverse | aaactcgcactgtcaatgcccca |