Supplementary table 2**.** PCR primers used in the study.

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| --- | --- | --- |
| Primer | Sequence (5′→3′) | |
| PGRN Knock-in DownArm nest forward | cacttctgccatgataaccaga | |
| PGRN Knock-in DownArm nest reverse | tccaccatggcgcagctcaa | |
| PGRN Knock-in DownArm *Sal*I forward | cgtcgacagaaagacatacacagccttaa | |
| PGRN Knock-in DownArm *Bgl*II reverse | cagatctacaactcgctgacgccgctgctggacga |
| PGRN Knock-in UpArm nest forward | cagtgggggatgtgaaatgtg | |
| PGRN Knock-in UpArm nest reverse | ggggtaatgtgatacagccga | |
| PGRN Knock-in UpArm *Cla*I forward | aatcgatatgggaggggacagcatctt | |
| PGRN Knock-in UpnArm *Xba*I reverse | ttctagacagcagctgtctcaaggctg | |
| PGRN Knock-in sgRNA detection forward | ctgcgagaaggaagtggtct | |
| PGRN Knock-in sgRNA detection reverse | ggggtaatgtgatacagccga | |
| PGRN Knock-in sgRNA detection nest forward | aggtgctgtaagcaggagag | |
| PGRN Knock-in sgRNA detection nest reverse | caaggacaacgtctaccgcaa | |
| PGRN Knock-in integration detection forward | cagtgggggatgtgaaatgtg | |
| PGRN Knock-in integration detection reverse | ggggtaatgtgatacagccga | |
| PGRN real time PCR forward | accgccagggcgtctgttgt | |
| PGRN real time PCR reverse | ggcctccctgcgcaaacact | |