Supplementary File 2. Predicted off-target sequences for gRNAs 1 to 4. Lowercase letters indicate a mismatch between the potential off-target sequence and the gRNA sequence.

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| --- | --- | --- | --- |
| gRNA  | target sequenceoff-target sequence | off-target position | off-target annotation |
| 1 | AGTGGAAAACGGAGACCACC GGGcaatcAgAACGGAGACCACC AGGAGTttAcggCGGAGACCACC AGG | 3L: 11473623 – 114736453R: 30428889 – 30428911 | *vhA16-3* gene, coding sequence*CG5533* gene, coding sequence |
| 2 | AGGGACAGAACTTGCGGGGA GGGAGGtACgcAACTTGCGGGaA AGGAcaaACtGAAaTTGCGGGGA AGG | 2R: 11951576 –119515983R: 31879082 – 31879104 | *exp* gene, deep within intron*heph* gene, deep within intron |
| 3 | TAAACCAATTTATACCGAGT CGGcgAAggAAaTTATACCGAGT CGGTAAACtAATTaAaACCGAGT GGG | 2R: 8862838 – 88628603R: 24565312 – 24565334 | *RyR* gene, 5’UTR*REPTOR* gene, deep within intron |
| 4 | GGCAATATATAGGAATGCAC TGGno predicted off-targets |  |  |