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GS : PCR primers for off-targets of TTTACAGTATGACCGAACAA TGG

In the table below, Illumina Nextera Handle sequences have been added and highlighted in bold. Primers for the on-target have been added for convenience. The table below is sorted by the CFD off-target score. Sites with very low CFD scores < 0.02 are unlikely to be cleaved, see our study <u>Haeussler et al. 2016</u>, Figure 2.

In the protocol by Matthew Canver, Harvard, two PCRs are run: one PCR to amplify the potential off-target, then a second PCR to extend the handles with Illumina barcodes. Please click here to download the protocol. Alternatively, you can have a look at <u>Fu et al</u>, 2014.

If a primer was not found, the reason is usually that the region around the off-target is too repetitive. To avoid unspecific primers, all repeats are masked for the primer design (not for off-target search). If you think that we should change the parameters here or should use different primer3 settings, please let us know.

Maximum amplicon length: 100 bp - for >= 75bp paired reads ✔ Primer Tm: 60 deg. ✔ Update

Name

```
GS ontarget mm0 exon XM 027418074.1 NC 048598.1 37805770 F
GS ontarget mm0 exon XM 027418074.1 NC 048598.1 37805770 R
GS mm4 intron XM 035452524.1/XM 035452523.1/XM 035452522.1/XM 035452521.1/XM 035452520.1/XM 027386920.2/XM 027386917.1/XM 027386916.2/X
GS mm4 intron XM 035452524.1/XM 035452523.1/XM 035452522.1/XM 035452521.1/XM 035452520.1/XM 027386910.2/XM 027386917.1/XM 027386916.2/X
GS mm4 intergenic XM 035440452.1/XM 035440451.1/XM 035440450.1/XM 035440449.1/XM 027401158.2/XM 027401157.2/XM 027401156.2/XM 027401155
GS mm4 intergenic XM 035440452.1/XM 035440451.1/XM 035440450.1/XM 035440449.1/XM 027401158.2/XM 027401157.2/XM 027401156.2/XM 027401155
GS mm4 intergenic XM 027429551.1|LOC100774398/XM 027429559.2 NC 048601.1 65403254 F
GS_mm4_intergenic_XM_027429551.1|LOC100774398/XM_027429559.2 NC 048601.1 65403254 R
GS mm4 intron XR 004768376.1 NC 048595.1 224812784 F
GS_mm4_intron_XR_004768376.1_NC_048595.1_224812784_R
GS mm4 intergenic XM 035450739.1/XM 027391808.2|LOC113832879 NW 023276806.1 75251958 F
GS mm4 intergenic XM 035450739.1/XM 027391808.2|LOC113832879 NW 023276806.1 75251958 R
GS mm4 intergenic XM 035441132.1/XM 035441131.1/XM 027397566.2/XM 027397565.2/XM 027397564.2/XM 027397567.2|XM 035441133.1 NC 048595.1 4
GS_mm4_intergenic_XM_035441132.1/XM_035441131.1/XM_027397566.2/XM_027397565.2/XM_027397564.2/XM_027397567.2|XM_035441133.1_NC_048595.1_4
GS mm4 intergenic XM 035447503.1/XM 035447502.1|XM 027427554.2 NC 048600.1 67354439 F
GS_mm4_intergenic_XM_035447503.1/XM_035447502.1|XM_027427554.2_NC_048600.1_67354439_R
GS mm4 intergenic XM 027403130.2/XM 027403129.2|XM 027403132.2 NC 048595.1 96071776 F
GS mm4 intergenic XM 027403130.2/XM 027403129.2|XM 027403132.2 NC 048595.1 96071776 R
GS mm4 intergenic XM 035444505.1|XM 027415012.2 NC 048597.1 168189035 F
GS mm4 intergenic XM 035444505.1|XM 027415012.2 NC 048597.1 168189035 R
GS mm3 intergenic XM 035446333.1|XM 027422235.2/XM 027422244.2/XM 027422243.2/XM 027422234.2/XM 027422238.2 NC 048599.1 62350732 F
GS mm3 intergenic XM 035446333.1|XM 027422235.2|XM 027422244.2|XM 027422243.2|XM 027422234.2|XM 027422238.2 NC 048599.1 62350732 R
GS mm3 intergenic LOC100756423|XM 027392083.2 NW 023276806.1 121629563 F
GS mm3 intergenic LOC100756423|XM 027392083.2 NW 023276806.1 121629563 R
GS mm4 intergenic XR 003481741.1|XR 003481508.2/XM 027397104.2 NC 048595.1 418919936 F
GS mm4 intergenic XR 003481741.1|XR 003481508.2/XM 027397104.2 NC 048595.1 418919936 R
GS mm4 intergenic XM 035441463.1|XM 035441699.1 NC 048596.1 192417044 F
GS mm4 intergenic XM 035441463.1|XM 035441699.1 NC 048596.1 192417044 R
GS mm4 intergenic XM 027409574.2|XM 027409248.1 NC 048596.1 248331943 F
GS mm4 intergenic XM 027409574.2|XM 027409248.1 NC 048596.1 248331943 R
GS mm4 intron NM 001244026.1 NC 048595.1 315233872 F
GS mm4 intron NM 001244026.1 NC 048595.1 315233872 R
GS mm4 intron XM 035440160.1/XM 027398022.2 NC 048595.1 199200241 F
GS mm4_intron_XM_035440160.1/XM_027398022.2_NC_048595.1_199200241_R
GS mm4 intergenic XM 027415224.2/XM 027415219.2/XM 027415218.2|XM 027415217.2 NC 048597.1 116978203 F
GS mm4 intergenic XM 027415224.2/XM 027415219.2/XM 027415218.2|XM 027415217.2 NC 048597.1 116978203 R
GS mm3 intron XM 035444755.1 NC 048597.1 73237046 F
GS mm3 intron XM 035444755.1 NC 048597.1 73237046 R
GS mm4 intergenic XR 003480591.1|XR 003480575.1 NW 023276806.1 105914801 F
GS_mm4_intergenic_XR_003480591.1|XR_003480575.1_NW_023276806.1_105914801_R
GS mm4 intergenic XM 027418322.2|XM 027418323.2 NC 048598.1 126687209 F
GS mm4 intergenic XM 027418322.2|XM 027418323.2 NC 048598.1 126687209 R
GS mm4 intergenic XM 027433529.1|XM 027433530.1 NC 048604.1 19648442 F
GS mm4 intergenic XM 027433529.1|XM 027433530.1 NC 048604.1 19648442 R
GS mm4 intergenic XR 003484489.1/XR 003484487.2/XR 003484486.1/XR 003484485.1/XR 003484484.1|XR 003484489.1/XR 003484487.2/XR 003484485.1/X
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GS mm4 intergenic LOC100751883|rna-Trnak-cuu-13 NW 023276807.1 244109180 F
GS mm4 intergenic LOC100751883|rna-Trnak-cuu-13 NW 023276807.1 244109180 R
GS mm4 intergenic XM 027401917.2/XM 027401916.2/XM 027401915.2|XM 027401919.2 NC 048595.1 269038455 F
GS_mm4_intergenic_XM_027401917.2/XM_027401916.2/XM_027401915.2|XM_027401919.2 NC_048595.1_269038455 R
GS mm4 intron XM 027409391.2/XM 027409390.2 NC 048596.1 239730517 F
GS mm4 intron XM 027409391.2/XM 027409390.2 NC 048596.1 239730517 R
GS mm4 intergenic XM 035448483.1/XM 035448482.1|XM 035448458.1/XM 027429868.2/XM 027429867.2 NC 048601.1 14551068 F
GS mm4 intergenic XM 035448483.1/XM 035448482.1|XM 035448458.1/XM 027429868.2/XM 027429867.2 NC 048601.1 14551068 R
GS mm4 intergenic XM 027412381.2|XM 027413320.2/XM 027413319.2/XM 027413318.2 NC 048597.1 16282132 F
GS mm4 intergenic XM 027412381.2|XM 027413320.2/XM 027413319.2/XM 027413318.2 NC 048597.1 16282132 R
GS mm4 intergenic NR 162747.1|XR 003485533.2 NC 048598.1 324095 F
GS mm4 intergenic NR 162747.1|XR 003485533.2 NC 048598.1 324095 R
GS mm4 intron XM 035451716.1/XM 035451715.1 NW 023276806.1 86877996 F
GS mm4 intron XM 035451716.1/XM 035451715.1 NW 023276806.1 86877996 R
GS mm4 intron XM 027394572.2 NW 023276806.1 250313196 F
GS mm4 intron XM 027394572.2 NW 023276806.1 250313196 R
GS mm4 intergenic XM 035449723.1|XM 035449807.1/XM 027432847.2/XM 027432846.2/XM 027432844.2/XM 027432841.2/XM 027432840.2/XM 027432839
GS mm4 intergenic XM 035449723.1|XM 035449807.1/XM 027432847.2/XM 027432846.2/XM 027432844.2/XM 027432841.2/XM 027432840.2/XM 027432839
GS mm4 intergenic XM 035453013.1|XM 035452881.1/XM 027387841.2/XM 027387840.2/XM 027387842.2/XM 027387843.2 NW 023276807.1 67873342 F
GS mm4 intergenic XM 035453013.1|XM 035452881.1/XM 027387841.2/XM 027387840.2/XM 027387842.2/XM 027387843.2 NW 023276807.1 67873342 R
GS mm4 intergenic LOC100760297|XM 035441539.1 NC 048596.1 270343256 F
GS mm4 intergenic LOC100760297|XM 035441539.1 NC 048596.1 270343256 R
GS mm3 intron XM 035440067.1 NC 048595.1 168142747 F
GS_mm3_intron_XM_035440067.1_NC_048595.1_168142747_R
GS mm4 intron XM 035449724.1 NC 048604.1 58433799 F
GS mm4 intron XM 035449724.1 NC 048604.1 58433799 R
GS mm4 intron XM 027406837.1 NC 048596.1 49172230 F
GS mm4 intron XM 027406837.1 NC 048596.1 49172230 R
GS mm4 intergenic XM 027388908.2|XM 035451486.1/XM 035451485.1/XM 035451484.1/XM 035451483.1/XM 035451481.1/XM 027388906.2/XM 027388905
GS mm4 intergenic XM 027388908.2|XM 035451486.1/XM 035451485.1/XM 035451484.1/XM 035451483.1/XM 035451481.1/XM 027388906.2/XM 027388905
GS mm4 intergenic LOC100764068|LOC100758688 NW 023276807.1 17528491 F
GS mm4 intergenic LOC100764068|LOC100758688 NW 023276807.1 17528491 R
GS mm4 intron XM 035440343.1/XM 027398450.2/XM 027398448.2/XM 027398447.2/XM 027398445.2 NC 048595.1 251932276 F
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GS mm4 intergenic XM 035447174.1/XM 035447173.1/XM 027423732.2/XM 027423731.2/XM 027423729.2/XM 027423728.2|XM 035447174.1/XM 035447173
GS mm4 intergenic XM 035447174.1/XM 035447173.1/XM 027423732.2/XM 027423731.2/XM 027423729.2/XM 027423728.2|XM 035447174.1/XM 035447173
GS mm4 intergenic XM 027415102.2|XM 035443223.1 NC 048597.1 164201437 F
GS mm4 intergenic XM 027415102.2|XM 035443223.1 NC 048597.1 164201437 R
GS mm4 exon XM 027431898.2/XR 004771471.1/XR 004771472.1/XM 035450180.1/XM 035450179.1/XM 035450181.1 NC 048604.1 73068964 F
GS mm4_exon XM_027431898.2/XR_004771471.1/XR_004771472.1/XM_035450180.1/XM_035450179.1/XM_035450181.1_NC_048604.1_73068964_R
GS mm4 intron XM 027416292.2/XM 027416291.2/XM 027416290.2 NC 048598.1 151749180 F
GS mm4 intron XM 027416292.2/XM 027416291.2/XM 027416290.2 NC 048598.1 151749180 R
GS mm4 intergenic XM 027410037.1|XM 027409923.2 NC 048596.1 269705056 F
GS mm4 intergenic XM 027410037.1|XM 027409923.2 NC 048596.1 269705056 R
GS mm4 intergenic XM 027412393.2/XM 027412392.2|XM 035443635.1 NC 048597.1 17062675 F
GS mm4 intergenic XM 027412393.2/XM 027412392.2|XM 035443635.1 NC 048597.1 17062675 R
GS mm4 intergenic XM 027430858.1|XM 035449460.1 NC 048602.1 24593903 F
GS mm4 intergenic XM 027430858.1|XM 035449460.1 NC 048602.1 24593903 R
GS mm4 intergenic XM 027416582.2/XM 035445016.1|XM 027416530.2 NC 048598.1 3104829 F
GS mm4 intergenic XM 027416582.2/XM 035445016.1|XM 027416530.2 NC 048598.1 3104829 R
GS mm4 intergenic XM 027401349.2|XM 027401349.2/XM 027401348.2/XM 027401347.2 NC 048595.1 340449079 F
GS\_mm4\_intergenic\_XM\_027401349.2|XM\_027401349.2/XM\_027401348.2/XM\_027401347.2\_NC\_048595.1\_340449079\_R
GS mm4 intergenic XM 035445044.1/XM 035445043.1/XM 035445042.1/XM 035445041.1/XM 035445040.1/XM 035445035.1/XM 027419812
GS mm4 intergenic XM 035445044.1/XM 035445043.1/XM 035445042.1/XM 035445041.1/XM 035445040.1/XM 035445035.1/XM 027419812
GS mm4 intergenic LOC100766360|XR 003488641.2/XM 027434055.2/XM 027434054.2 NW 023276853.1 147710 F
GS mm4 intergenic LOC100766360|XR 003488641.2/XM 027434055.2/XM 027434054.2 NW 023276853.1 147710 R
GS mm4 intron XM 035453126.1 NW 023276807.1 273474776 F
GS mm4_intron_XM_035453126.1_NW_023276807.1_273474776_R
GS mm4 intron XM 027401056.2 NC 048595.1 284945160 F
GS mm4 intron XM 027401056.2 NC 048595.1 284945160 R
GS mm4 intergenic XM 035439108.1|XM 027401086.2 NC 048595.1 287839766 F
GS mm4 intergenic XM 035439108.1|XM 027401086.2 NC 048595.1 287839766 R
GS mm4 intergenic LOC113835376|XM 035444554.1/XM 027412661.2/XM 027412660.2/XM 027412659.2 NC 048597.1 47241613 F
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GS_mm4_intergenic_LOC113835376|XM_035444554.1/XM_027412661.2/XM_027412660.2/XM_027412659.2_NC_048597.1_47241613_R GS_mm4_intergenic_LOC107977897|XR_003485888.1_NC_048598.1_72026587_F GS_mm4_intergenic_LOC107977897|XR_003485888.1_NC_048598.1_72026587_R
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Off-target amplicon sequences with primers

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These only list off-targets that have primers in the table above. Primers underlined, off-targets in bold.
```

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ontarget mm0_exon_XM_027418074.1_NC_048598.1_37805770
mm4\_intergenie\_XM\_035440452.1/XM\_035440451.1/XM\_035440450.1/XM\_035440449.1/XM\_027401158.2/XM\_027401157.2/XM\_027401156.2/XM\_027401155.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM\_027401158.2/XM_027401158.2/XM_027401158.2/XM_027401158.2/XM_027401158.2/XM_027401158.2/XM_0
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mm4 intergenic XM 035450739.1/XM 027391808.2|LOC113832879 NW 023276806.1 75251958
mm4 intergenic XM 035441132.1/XM 035441131.1/XM 027397566.2/XM 027397565.2/XM 027397564.2/XM 027397567.2/XM 035441133.1 NC 048595.1 4426
mm4 intergenic XM 035447503.1/XM 035447502.1|XM 027427554.2 NC 048600.1 67354439
mm4 intergenic XM 027403130.2/XM 027403129.2|XM 027403132.2 NC 048595.1 96071776
mm4 intergenic XM 035444505.1|XM 027415012.2 NC 048597.1 168189035
mm4 intergenic XR 003481741.1|XR 003481508.2/XM 027397104.2 NC 048595.1 418919936
mm4_intergenic_XM_035441463.1|XM_035441699.1_NC_048596.1_192417044
mm4 intron NM 001244026.1 NC 048595.1 315233872
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mm4_intergenic_XR_003480591.1|XR_003480575.1_NW_023276806.1_105914801
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mm4 intron XM 035451716.1/XM 035451715.1 NW 023276806.1 86877996
mm4 intron XM 027394572.2 NW 023276806.1 250313196
mm4 intergenic XM 035449723.1|XM 035449807.1/XM 027432847.2/XM 027432846.2/XM 027432844.2/XM 027432841.2/XM 027432840.2/XM 027432839.2 N
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mm4 intron XM 035449724.1 NC 048604.1 58433799
mm4 intron XM 027406837.1 NC 048596.1 49172230
mm4 intergenic XM 027388908.2|XM 035451486.1/XM 035451485.1/XM 035451484.1/XM 035451483.1/XM 035451481.1/XM 027388906.2/XM 027388905.2/X
mm4 intergenic LOC100764068|LOC100758688 NW 023276807.1 17528491
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mm4 intron XM 027416292.2/XM 027416291.2/XM 027416290.2 NC 048598.1 151749180
mm4 intergenic XM 027410037.1|XM 027409923.2 NC 048596.1 269705056
mm4 intergenic XM 027430858.1|XM 035449460.1 NC 048602.1 24593903
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mm4\_intergenic\_XM\_035439108.1|XM\_027401086.2\_NC\_048595.1\_287839766
```

Input file for Crispresso

Crispresso, written by Luca Pinello, is a software package to quantify the Cas9-induced mutations on off- or on-targets.

Click here to download an amplicon input file for Crispresso. For each off-target, it includes the off-target name, its PCR amplicon and the guide sequence. Keep a copy of this file.

After sequencing, run CRISPRessoPooled. The tool will map the reads to the amplicons and analyse the mutations:

CRISPRessoPooled -r1 Reads1.fastq.gz -r2 Reads2.fastq.gz -f crisporAmplicons_GS_aMGdfbP8brJISzWAaMfe.txt --name MY_EXPERIMENT

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