

gRNA Project

1. gRNA target sequence (<http://crispor.tefor.net/>)

gRNA-A1 (matching reverse strand of gene): AGTGACCAGCGTACCGGCCG-TGG

gRNA-B1 (matching reverse strand of gene): CTGTCCAGTGACCAGCGTAC-CGG

2. gRNA Information

Off-target analysis for: gRNA-A1 (<https://cctop.cos.uni-heidelberg.de/index.html>)

Sequence: AGTGACCAGCGTACCGGCCGTGG

Coordinates	strand	MM	target_seq	PAM	distance		gene name	gene id
11:119169762-119169784	-	0	AGTGACCA [GCGTACCGGCCG]	TGG	0	E	Gaa	ENSMUSG00000025579
4:148603398-148603420	+	4	A CTG CCA [GC AG ACCGGCCG]	GGG	2329	I	Mtor	ENSMUSG00000028991
9:14412150-14412172	+	4	CGT GAC GA [TC GTAC A GGCCG]	CGG	10	I	Cwc15	ENSMUSG00000004096
1:39232903-39232925	+	4	AG G ACCC [GCG CA G CGGCCG]	CGG	0	E	Npas2	ENSMUSG00000026077
15:95554782-95554804	-	4	AGTGA TGA [GCGTAC T GGC TG]	AGG	941	-	Dbx2	ENSMUSG00000045608

Off-target analysis for: gRNA-B1 (<https://cctop.cos.uni-heidelberg.de/index.html>)

Sequence: CTGTCCAGTGACCAGCGTACCGG

Coordinates	strand	MM	target_seq	PAM	distance		gene name	gene id
11:119169768-119169790	-	0	CTGTCCAG [TGACCAGCGTAC]	CGG	0	E	Gaa	ENSMUSG00000025579
14:90354541-90354563	+	4	C AC TCCA A [TGACCAG T GTAC]	TGG	9346	-	AC159103.1	ENSMUSG000000118875
7:80768141-80768163	+	4	CTG GGC GG [TGACCAG T GTAC]	AGG	701	I	Slc28a1	ENSMUSG00000025726
12:108821998-108822020	+	4	CTGT GTG G [TGACCAG T GTAC]	GGG	0	E	Slc25a47	ENSMUSG00000048856
15:54080984-54081006	-	4	CTG ACA AC [TGACCAG T GTAC]	AGG	33009	-	Tnfrsf11b	ENSMUSG00000063727
5:28944298-28944320	-	4	CTGT AGAC [TGACCAG AG TAC]	TGG	3315	I	9530036O11Rik	ENSMUSG00000097726
14:70930090-70930112	-	4	CT TCA CAG [TGACCAGC C TAC]	AGG	0	E	Xpo7	ENSMUSG00000022100
X:155283947-155283969	+	3	CTGTCCA T [TGA AC AG AG TAC]	AGG	38178	-	4930503H13Rik	ENSMUSG00000082612
18:63413620-63413642	-	4	TG GTCCAG [TGAC A AGC T TAC]	TGG	13022	I	Gm50172	ENSMUSG000000118336
7:132667264-132667286	-	4	CTGT TGAC [TGACCAGCG G AC]	TGG	12514	I	Ctbp2	ENSMUSG00000030970
18:9509520-9509542	+	3	CTGTCC TG [TGACCA CT GTAC]	TGG	13011	-	Gm7527	ENSMUSG000000117503
10:76898774-76898796	+	3	CT C TCCAG [TGAC A AGCGT G C]	CGG	1017	I	Col18a1	ENSMUSG000000001435
4:59783667-59783689	+	4	CTG CCC CG [TG G CCAGCGT TC]	GGG	39	I	Inip	ENSMUSG00000038544
3:30385999-30386021	+	4	CT A TCCA T [TG T CCAGCGT G C]	AGG	57465	I	Gm38362	ENSMUSG000000103870
1:72916362-72916384	+	4	A TGT TC AG [TGAC A AGCGT G C]	TGG	2319	-	Igfbp5	ENSMUSG00000026185
10:82979299-82979321	+	4	G T T TCCAG [TGACCAG AG T TC]	TGG	1427	I	1700025N21Rik	ENSMUSG00000090200
5:130815078-130815100	+	4	CTGTC ATG [TGACCAGC CG AC]	CGG	36614	I	Caln1	ENSMUSG00000060371
4:115008795-115008817	+	4	CTGT G TAG [TGACCAG AG T CC]	TGG	16	I	Cyp4a28-ps	ENSMUSG00000081823
8:48689444-48689466	-	4	CT TTC G AG [TGACCAGC AT G C]	AGG	0	E	Tenm3	ENSMUSG00000031561
4:46961621-46961643	-	3	CTGTCC TG [TGACCAG AG T A T]	GGG	29465	I	Gabbr2	ENSMUSG00000039809