

#C2-1

Species: Mouse (Mus musculus GRCm38/mm10)
Input: CTTGAGATTCTAAAATCCGTTGG
PAM: NGG

Table with columns: Chromosome, start, end, strand, MM, target\_seq, PAM, distance, position, gene name, gene id. Contains genomic data for various chromosomes (chrX, chr1, chr15, etc.) and associated genes (Foxp3, Pes1, Prr1, etc.).

#C2-7

Species: Mouse (Mus musculus GRCm38/mm10)
Input: TCCGGCCGCCATGACGTCAATGG
PAM: NGG

Table with columns: Chromosome, start, end, strand, MM, target\_seq, PAM, distance, position, gene name, gene id. Contains genomic data for various chromosomes (chrX, chr2, chr7, etc.) and associated genes (Foxp3, Gm14037, Chrd1, etc.).

#P-3

Species: Mouse (Mus musculus GRCm38/mm10)
Input: CACACTCATCAAAAAAAAAATTGG
PAM: NGG

Table with columns: Chromosome, start, end, strand, MM, target\_seq, PAM, distance, position, gene name, gene id. Contains genomic data for various chromosomes (chrX, chr4, chrX, etc.) and associated genes (Ppp1r3fos, Gm13214, Gpc3, etc.).

chr13	61731925	61731947 +	4 GATATTCATAAAAAAAAAA	TGG	67954	Intergenic	Gm19961	ENSMUSG00000095905
chr2	102691568	102691590 -	3 CAGAGTCATCTAAAAAAAA	AGG	2375	Intronic	Slc1a2	ENSMUSG0000005089
chr11	99604483	99604505 -	4 AACAGCAACAAAAAAAAA	AGG	1175	Intergenic	Gm11938	ENSMUSG00000057674
chr5	43659389	43659411 +	4 AACAAACAACAAAAAAAAA	AGG	2935	Intergenic	Cc2d2a	ENSMUSG00000039765
chrX	61096487	61096509 -	4 CTAATTCATAAAAAAAAAA	GGG	4753	Intergenic	Gm14663	ENSMUSG00000083543
chr6	144760427	144760449 -	4 AACTTTCATTAAAAAAAAA	TGG	544	Intronic	Sox5os4	ENSMUSG00000086282
chr15	20348716	20348738 +	4 TAAACCCATTAAAAAAAAA	GGG	NA	Intergenic	NA	NA
chr10	75477656	75477678 -	4 CAAAACAACAAAAAAAAA	TGG	28605	Intronic	Gucl1	ENSMUSG00000033416
chr15	25026774	25026796 +	4 TCCACTTATAAAAAAAAAA	CGG	430	Intronic	Gm2824	ENSMUSG00000097452
chr16	25167179	25167201 -	4 CAGGTCATAAAAAAAAAA	AGG	98121	Intergenic	A230028O05Ri	ENSMUSG00000096960
chr2	69687728	69687750 +	4 CCCTCCCATTAAAAAAAAA	GGG	588	Intronic	Fastkd1	ENSMUSG00000027086
chr14	74623048	74623070 -	3 CAGACTTATCTAAAAAAAA	GGG	17770	Intergenic	Htr2a	ENSMUSG00000034997
chr1	149567938	149567960 -	4 CAAAATAACAAAAAAAAA	GGG	NA	Intergenic	NA	NA
chr1	177208323	177208345 +	4 GACTCTAATGAAAAAAAAA	AGG	21546	Intronic	Gm37463	ENSMUSG00000102427
chr19	4969684	4969706 +	4 CTCAAACATTAAAAAAAAA	AGG	2689	Intergenic	Mprl11	ENSMUSG00000024902
chr12	41949616	41949638 -	3 CAGATTTCACAAAAAAAAA	GGG	5343	Intronic	Impmp2l	ENSMUSG00000056899
chr8	60184386	60184408 +	4 CTCTCTAATGAAAAAAAAA	GGG	NA	Intergenic	NA	NA
chr18	23494666	23494688 +	4 AAGACTCCTGAAAAAAAAA	GGG	19424	Intronic	Dtna	ENSMUSG00000024302
chr14	20540781	20540803 -	3 CACACCCTTAAAAAAAAA	CGG	5276	Intronic	1810062O18Ri	ENSMUSG00000084925
chrY	52373157	52373179 +	4 CATTCTGATAAAAAAAAAA	GGG	10820	Intergenic	Gm28738	ENSMUSG00000099565
chrY	64969870	64969892 +	4 CATTCTGATAAAAAAAAAA	GGG	10822	Intergenic	Gm28255	ENSMUSG00000099386
chrY	72148140	72148162 +	4 CATTCTGATAAAAAAAAAA	GGG	10829	Intergenic	Gm29181	ENSMUSG00000099731
chrY	49670071	49670093 -	4 CATTCTGATAAAAAAAAAA	GGG	10838	Intergenic	Gm28682	ENSMUSG00000100564
chrY	62289786	62289808 -	4 CATTCTGATAAAAAAAAAA	GGG	10842	Intergenic	Gm28185	ENSMUSG00000099626
chrX	132699573	132699595 +	4 CAACCTAATTAAAAAAAAA	GGG	17484	Intergenic	Gm22143	ENSMUSG00000088026
chr10	113684543	113684565 -	4 CATCTAATAAAAAAAAAA	GGG	NA	Intergenic	NA	NA
chr1	145080821	145080843 +	4 CCAACTCTAAAAAAAAAA	AGG	84108	Intergenic	Gm6550	ENSMUSG00000099617
chr18	33285595	33285617 -	4 CACCTACATTAAAAAAAAA	TGG	71733	Intergenic	Stard4	ENSMUSG00000024378
chr1	142266084	142266106 +	4 CACTGCCATGAAAAAAAAA	TGG	NA	Intergenic	NA	NA
chr1	74642970	74642992 -	4 AATACTGATCTAAAAAAAA	TGG	6076	Intergenic	Stk36	ENSMUSG00000033276
chr5	59791361	59791383 +	4 AACACAAATGAAAAAAAAA	AGG	13038	Intergenic	Gm43043	ENSMUSG00000104889
chr6	5450315	5450337 +	4 GACACAGATGAAAAAAAAA	AGG	17293	Intergenic	Asb4	ENSMUSG00000042607
chr2	173621421	173621443 +	4 CATAATGATGAAAAAAAAA	TGG	4480	Intronic	Ppp4r1-ps	ENSMUSG00000055897
chr14	66861086	66861108 +	4 TTCACTCAGAAAAAAAAAA	GGG	1365	Intronic	Dpysl2	ENSMUSG00000022048
chr10	32601465	32601487 -	4 AGCCTCACAAAAAAAAAA	GGG	NA	Intronic	NA	NA
chr11	4965261	4965283 +	4 CTCCTCCTTAAAAAAAAA	TGG	17197	Intergenic	Nefh	ENSMUSG00000020396
chr6	106476791	106476813 +	4 GACACTTTACAAAAAAAAA	AGG	12780	Intronic	Ctrn4	ENSMUSG00000064293
chr5	124550378	124550400 -	3 CACACACAAAAAAAAAA	TGG	0	Exonic	Tmed2	ENSMUSG00000029390
chr13	117032245	117032267 +	3 CACACCAAAAAAAAAAA	AGG	6729	Intergenic	Parp8	ENSMUSG00000021725
chr16	46812755	46812777 -	4 AAATCTCAGAAAAAAAAAA	GGG	NA	Intergenic	NA	NA
chr17	51001564	51001586 -	4 CATAATGTTAAAAAAAAAA	TGG	16890	Intronic	Tbcd1d5	ENSMUSG00000023923
chr7	59150755	59150777 -	3 CACACTGAATAAAAAAAAA	GGG	77973	Intergenic	Ube3a	ENSMUSG00000025326
chrX	79673766	79673788 +	4 GGCCTGATCAGAAAAAAAA	AGG	2331	Intergenic	Mageb16	ENSMUSG00000046942
chr3	143644226	143644248 +	4 CATGCTCAGAAAAAAAAAA	GGG	642	Intergenic	Gm38006	ENSMUSG00000103816
chrX	89826628	89826650 -	4 CACACAAATAAAAAAAAAA	TGG	20502	Intergenic	Gm7108	ENSMUSG00000083253
chr15	38192561	38192583 +	4 CACAGAAATTAAAAAAAAA	GGG	26620	Intergenic	Odf1	ENSMUSG00000061923
chr7	90875141	90875163 +	4 CACAGCAATAAAAAAAAAA	AGG	NA	Intergenic	NA	NA
chr17	4370422	4370444 +	4 CCCAATCAAAAAAAAAAA	GGG	NA	Intergenic	NA	NA
chrX	81933584	81933606 +	4 AAAACTAATCAGAAAAAAAA	GGG	NA	Intergenic	NA	NA
chr3	52621792	52621814 +	4 GACACACAAAAAAAAAA	AGG	7956	Intergenic	Gm10293	ENSMUSG00000070490
chr10	56531248	56531270 -	4 TACACACAAAAAAAAAA	GGG	NA	Intergenic	NA	NA
chr6	63776611	63776633 +	4 CAAAATCAGAAAAAAAAAA	GGG	7219	Intronic	RP23-133M12	ENSMUSG00000108068
chr11	120080058	120080080 +	4 CATACTTTTTAAAAAAAAA	AGG	1164	Intronic	Cep131	ENSMUSG00000039781
chr4	109190294	109190316 +	4 CATACTTTTTAAAAAAAAA	TGG	11789	Intronic	Osbpl9	ENSMUSG00000028559
chr2	93140629	93140651 +	4 AACACCCTCCAAAAAAAAA	AGG	42385	Intergenic	Gm13802	ENSMUSG00000087559
chr11	92769292	92769314 +	4 CACAACCTTTAAAAAAAAA	GGG	717	Intergenic	Gm11500	ENSMUSG00000081363
chr18	36677637	36677659 +	4 CAAACCCAGAAAAAAAAAA	AGG	132	Intronic	Sra1	ENSMUSG0000006050
chr10	62656250	62656272 +	4 AACACTTAAAAAAAAAA	CGG	2771	Intergenic	Stox1	ENSMUSG00000036923
chr6	38992400	38992422 -	4 AACACTTAAAAAAAAAA	GGG	8075	Intronic	Gm42962	ENSMUSG00000106737
chr7	68940531	68940553 -	4 TACACTAACAAAAAAAAAA	TGG	11547	Intergenic	Gm23795	ENSMUSG00000065940
chr3	11271385	11271407 +	4 TACACTTAAAAAAAAAA	TGG	NA	Intergenic	NA	NA
chr1	174373723	174373745 -	3 GACTCTCTCAATAAAAAA	TGG	802	Intergenic	Olfra416-ps1	ENSMUSG00000102920
chr10	125534311	125534333 +	4 CACTACTTTTAAAAAAAAA	GGG	NA	Intergenic	NA	NA
chr8	61512044	61512066 +	4 CTCACTTAAAAAAAAAA	TGG	1180	Intergenic	Palld	ENSMUSG00000058056
chr2	11088655	11088677 +	4 AAGACTCATTTAAAAAAAA	GGG	742	Intergenic	Gm26478	ENSMUSG00000084560
chrX	95246470	95246492 +	4 AAAACTCATCAAAAAAAAA	TGG	6424	Intergenic	Gm14807	ENSMUSG00000080298
chr15	90696252	90696274 +	3 CACACACATTGAAAAAAAA	AGG	16820	Intergenic	Cpne8	ENSMUSG00000052560
chr3	111694740	111694762 -	4 CAAACTAACGAAAAAAAAA	AGG	94730	Intergenic	Gm42905	ENSMUSG00000105882
chrX	156911201	156911223 +	4 CATACTAAAGAAAAAAAAA	GGG	NA	Intergenic	NA	NA
chr10	60369049	60369071 +	4 CACTCTTAGAAAAAAAAAA	TGG	75277	Intergenic	Gm24999	ENSMUSG00000080668
chr13	32685087	32685109 +	4 CTCACTCGGAAAAAAAAAA	AGG	NA	Intronic	NA	NA
chrX	150326938	150326960 +	4 CACAGTAAAAAAAAAA	AGG	6033	Intronic	Gm15104	ENSMUSG00000087360
chr13	56634027	56634049 -	4 CAACCTCATTTAAAAAAAA	TGG	1038	Intronic	Tgfb1	ENSMUSG00000035493
chr14	38183959	38183981 +	4 CACACAAAAAAAAAA	GGG	NA	Intergenic	NA	NA
chr1	16001073	16001095 -	4 CCCACACATGAAAAAAAAA	TGG	52240	Intergenic	Gm7634	ENSMUSG00000100652
chr16	77246059	77246081 -	4 AACACTGATGAAAAAAAAA	GGG	8809	Intronic	Mir99ahg	ENSMUSG00000090386
chr1	44403677	44403699 -	4 AACACTAATCAAAAAAAAA	AGG	9230	Intergenic	Gm28893	ENSMUSG00000100769
chrX	42631005	42631027 +	4 CACAAACATCAAAAAAAAA	AGG	11549	Intronic	Tenm1	ENSMUSG0000006150
chr13	54547670	54547692 +	4 CCCATACATCAATAAAAA	AGG	331	Intronic	Simc1	ENSMUSG00000043183
chr6	75807033	75807055 -	4 CTCACTACTCAATAAAAA	GGG	24277	Intergenic	Gm9001	ENSMUSG00000080824
chr11	27801123	27801145 -	4 AACAAATCAACAAAAAA	TGG	81967	Intergenic	Gm12079	ENSMUSG00000084064
chr6	22061717	22061739 +	4 CAGGCTCATCTCAAAAAA	AGG	1765	Intronic	Cped1	ENSMUSG00000062980
chr16	59951780	59951802 -	4 CACTCCCATAAGAAAAAA	GGG	2850	Intronic	Epha6	ENSMUSG00000055540
chr15	42826576	42826598 +	4 CCCACCACCAACAAAAAA	GGG	NA	Intergenic	NA	NA
chr2	124841029	124841051 +	4 CAAACTGATAAGAAAAAA	TGG	NA	Intergenic	NA	NA

chr7	89381382	89381404 -	3 CGCACTCATAAAAAATAAT	AGG	12963	Intronic	Gm28748	ENSMUSG00000101924
chr2	43854206	43854228 +	4 GACACACACTGTGAAAAAATAAT	GGG	2578	Intronic	Arhgap15	ENSMUSG00000049744
chr11	5217092	5217114 +	4 CTC AATGAT AAAGAAAAAATAAT	TGG	1561	Intronic	Kremen1	ENSMUSG00000020393
chr11	16115910	16115932 +	4 CACATCCACAGAAAAAATAAT	TGG	77482	Intergenic	Gm37319	ENSMUSG00000104323
chrX	41199611	41199633 +	4 CACACACTTTGAAAAAATAAT	TGG	48942	Intergenic	Gm5385	ENSMUSG00000081880
chr8	114216907	114216929 +	4 GAGACTCATCCGAAAAAATAAT	TGG	10960	Intronic	Vat11	ENSMUSG00000046844
chr6	117224017	117224039 +	4 CATACATATCAAATAAATAAT	AGG	9951	Intergenic	Rpl28-ps4	ENSMUSG00000090549
chr1	171664882	171664904 +	4 CACAACAACACAAAAAATAAT	CGG	11780	Intergenic	A630035G10Ri	ENSMUSG00000103083
chr4	126013592	126013614 +	4 CACACACCAGATAAAAAAATAAT	AGG	10936	Intergenic	Csf3r	ENSMUSG00000028859
chr1	158010035	158010057 -	4 CACACTGTTGGAAAAAATAAT	AGG	47186	Intronic	Gm38256	ENSMUSG00000102789
chr8	23775579	23775601 -	3 CACACTGAACAACAAAAAATAAT	GGG	21741	Intronic	Zmat4	ENSMUSG00000037492
chr10	37025826	37025848 +	4 CATACACATGAAGAAAAAATAAT	TGG	23937	Intergenic	Hdac2	ENSMUSG00000019777
chr8	117060110	117060132 -	3 CTC ACTCACAAAAATAAATAAT	AGG	376	Intronic	Pkd1l2	ENSMUSG00000034416
chr8	95816602	95816624 -	3 CACACACATAAAAAATAAATAAT	GGG	156	Intronic	4930513N10Ri	ENSMUSG00000074136
chr16	12296093	12296093 -	3 CACACATAAAAAATAAATAAT	AGG	25191	Intergenic	Shisa9	ENSMUSG00000022494
chr4	142657335	142657357 -	4 CCAACTGATCAAAAAGAAAAATAAT	GGG	NA	Intergenic	NA	NA
chr3	147193983	147194005 -	4 AACATTGATAAAACAAAAAATAAT	AGG	1065	Intergenic	Gm6074	ENSMUSG00000103099
chr7	46346426	46346448 -	4 AACACTAAACAAATAAATAAT	GGG	3456	Intergenic	Gm38176	ENSMUSG00000103826
chr6	126469680	126469702 +	4 CACACACTGGAAGAAAAAATAAT	AGG	62849	Intergenic	Kcna5	ENSMUSG00000045534
chr15	4570368	4570390 -	4 TGCTCTCATCAAAAAGAAAAATAAT	AGG	4334	Intronic	Plcxd3	ENSMUSG00000049148
chr18	45073915	45073937 -	4 CATATTTGATCAAAAAATAAATAAT	GGG	15389	Intergenic	Gm26928	ENSMUSG00000098244
chr6	35353495	35353517 -	4 CCCCTCTTCAAAAAGAAAAATAAT	CGG	16670	Intergenic	170065J11Ri	ENSMUSG00000107341
chr6	42674597	42674619 +	3 CACACACACTAAGAAAAAATAAT	TGG	423	Intronic	Tcaf1	ENSMUSG00000036667
chr5	113084060	113084082 -	4 CACCATGATCAAAAATAAATAAT	TGG	2241	Intergenic	290026A02Ri	ENSMUSG00000051339
chr9	67372263	67372285 +	4 CACACGCCTCTTAAAAAATAAT	TGG	1496	Intronic	Tln2	ENSMUSG00000052698
chr10	40425081	40425103 -	4 CACAGTCTTAAATAAATAAATAAT	GGG	9201	Intronic	Cdk19	ENSMUSG00000038481
chr9	114703269	114703291 +	4 CAAACACATAAAATAAATAAT	AGG	1763	Intronic	Dync1li1	ENSMUSG00000032435
chr17	35599132	35599154 -	4 CATACACATAAAATAAATAAT	AGG	2395	Intergenic	Sfta2	ENSMUSG00000090509
chr11	95419490	95419512 -	4 CATACACATAAAATAAATAAT	AGG	5086	Intronic	Spop	ENSMUSG00000057522
chr5	24276066	24276088 +	4 CATACACATTAATAAATAAATAAT	AGG	19029	Intergenic	Gm9836	ENSMUSG00000081071
chr14	60120497	60120519 +	4 CATACACATAAAATAAATAAT	AGG	20544	Intronic	Gm6913	ENSMUSG00000075288
chr9	30253775	30253797 +	4 CATACACATAAAATAAATAAT	AGG	38071	Intergenic	Gm26435	ENSMUSG00000096018
chr16	40465289	40465311 +	4 CATACACATAAAATAAATAAT	AGG	97352	Intronic	Gm27887	ENSMUSG00000098472
chr10	129812675	129812697 +	4 CAAAGTCTCAAAAATAAATAAT	AGG	10152	Intergenic	Olfir11	ENSMUSG00000063173
chr6	134250297	134250319 +	4 CCCAGCATCAAAAAGAAAAATAAT	GGG	1493	Intronic	Etv6	ENSMUSG00000030199
chr3	120119547	120119569 -	4 CCCCTAATTAACAAAAAATAAT	AGG	NA	Intergenic	NA	NA
chrX	113387656	113387678 -	4 CTCTCTCACAAAAATAAATAAT	GGG	55431	Intronic	Gm24831	ENSMUSG00000080428
chr6	51272825	51272847 +	3 CACACTGAGCAAAAGAAAAATAAT	AGG	2915	Intergenic	Mir148a	ENSMUSG00000065505
chr18	65971111	65971133 -	4 CACCATCATCACAAAAAATAAT	AGG	933	Intergenic	Cplx4	ENSMUSG00000024519
chr5	76442127	76442149 +	4 AGCACTCATAAAAACAAAAATAAT	TGG	8552	Intergenic	Gm42665	ENSMUSG00000106982
chr8	54271199	54271221 +	4 ACCACTGATGAAAACAAAAATAAT	TGG	84745	Intergenic	Vegfc	ENSMUSG00000031520
chr10	62635557	62635579 -	4 CACATGCATAAAATAAATAAT	AGG	1431	Intronic	Ddx50	ENSMUSG00000020076
chr14	87082295	87082317 +	3 CACACACATTAATAAATAAATAAT	AGG	8661	Intronic	Diap3	ENSMUSG00000022021
chr19	24622389	24622411 -	3 CACACACATTAATAAATAAATAAT	AGG	51597	Intergenic	Tmem252	ENSMUSG00000048572
chr7	73075279	73075301 -	4 CACACAAATCCACAAAAAATAAT	GGG	14122	Intergenic	RP24-136L4.3	ENSMUSG00000108329
chr2	61969874	61969896 +	4 CACACTACTGAATAAAAAATAAT	GGG	458	Intergenic	Gm13555	ENSMUSG00000083018
chr14	96244853	96244875 +	4 AAAACTAATCAAAAAGAAAAATAAT	TGG	4459	Intronic	Khl1	ENSMUSG00000022076
chr17	77080627	77080649 -	4 AAAACTGATCAAAAAGAAAAATAAT	AGG	NA	Intergenic	NA	NA
chrX	42143126	42143148 +	4 CAGACTTCTCAAAAACAAAAATAAT	TGG	4840	Intergenic	Gm37564	ENSMUSG00000104042
chr1	110268779	110268801 -	4 CACAACATCATTAAAAAATAAT	TGG	NA	Intergenic	NA	NA
chr7	64289198	64289220 +	4 CACAATAATTAAGAAAAAATAAT	CGG	799	Intronic	Mtmr10	ENSMUSG00000030522
chrX	22201803	22201825 -	4 AACATGATAAAAAATAAATAAT	AGG	3345	Intergenic	Gm14563	ENSMUSG00000082175
chr8	39755438	39755460 +	4 CACAAGCAACAAAAGAAAAATAAT	AGG	NA	Intergenic	NA	NA
chr18	88965295	88965317 +	4 CATACACATAAAAAATAAATAAT	AGG	6473	Intergenic	Rttm	ENSMUSG00000023066
chr1	32967777	32967799 +	3 TACACGGATCAAAAATAAATAAT	TGG	0	Exonic	Gm37151	ENSMUSG00000102926
chr18	58506909	58506931 +	4 AACAGTCTCAAAAATAAATAAT	GGG	49326	Intergenic	Sic27a6	ENSMUSG00000024600
chr5	102397266	102397288 +	4 CATGTGATCAAAAACAAAAATAAT	TGG	18915	Intergenic	Gm42932	ENSMUSG00000106295
chr8	103567847	103567869 -	4 CACATTTAACAACAAAAATAAT	GGG	NA	Intergenic	NA	NA
chr8	33005176	33005198 +	4 CATATTCTCAAAAAGAAAAATAAT	AGG	55150	Intergenic	Gm3985	ENSMUSG00000079070
chr10	92597307	92597329 -	4 CACAATCCACAAAACAAAAATAAT	TGG	10000	Intergenic	Gm22582	ENSMUSG00000076238
chr6	18382266	18382288 -	4 CACAGTAATCAGAGAAAAATAAT	AGG	458	Intronic	Cttnbp2	ENSMUSG00000004161
chr14	73986018	73986040 -	4 TACACACACAAAAAGAAAAATAAT	AGG	30467	Intergenic	Cbx3-ps6	ENSMUSG00000057886
chr14	61743550	61743572 +	4 CAGATTGACCAAAAACAAAAATAAT	AGG	57894	Intergenic	Gm37820	ENSMUSG00000104187
chr9	47797088	47797110 -	4 CACATTCATCATAAGAAAAATAAT	GGG	297	Intronic	Cadm1	ENSMUSG00000032076
chr10	15886115	15886137 -	4 CACAATCTTTAAAAGAAAAATAAT	AGG	NA	Intergenic	NA	NA
chr4	92324975	92324997 +	4 GACCCCATCAAAAAGAAAAATAAT	AGG	48054	Intergenic	Gm12638	ENSMUSG00000083296
chr14	80416664	80416686 +	4 TACACACATCAGAACAAAAATAAT	AGG	74179	Intergenic	Gm9578	ENSMUSG00000098125
chr5	81444339	81444361 -	4 CTCATTGATGAAAAAGAAAAATAAT	TGG	20834	Intronic	Adgrl3	ENSMUSG00000037605
chr9	63117106	63117128 -	4 AACACTGATCACAAGAAAAATAAT	GGG	16155	Intergenic	Gm25064	ENSMUSG00000094201
chr3	19776589	19776611 +	4 CACAACCAGCAAAAATAAATAAT	AGG	7334	Intergenic	Gm7442	ENSMUSG00000106182
chr3	158473852	158473874 +	4 CTCACTAATTAAAAACAAAAATAAT	AGG	15117	Intronic	Gm43487	ENSMUSG00000105683
chr3	106374685	106374707 +	4 CAAAAGTTATCAAAAAGAAAAATAAT	TGG	378	Intergenic	Gm43212	ENSMUSG00000105436
chr1	186065171	186065193 -	4 AACACTCTTAAAAATAAATAAT	AGG	22538	Intergenic	Lyplal1	ENSMUSG00000039246
chrX	114886348	114886370 +	4 CAAAAGTCATCAACATAAATAAT	TGG	18642	Intergenic	Ube2dn1l	ENSMUSG00000050435
chr4	127593345	127593367 +	3 CACACACACAAAAATAAATAAT	AGG	22843	Intergenic	A630031M04Ri	ENSMUSG00000087470
chr15	64037388	64037410 +	4 CACATTCACAAAAATAAATAAT	GGG	11336	Intronic	Gm25628	ENSMUSG00000065936
chr18	72323672	72323694 +	4 CCTACTGATCATAAACAAAAATAAT	AGG	26662	Intronic	Dcc	ENSMUSG00000060534
chrX	147457301	147457323 -	4 CACAATAATAAAAAATAAATAAT	TGG	3594	Intergenic	Vmn1r239-ps	ENSMUSG00000067262
chrX	109677819	109677841 +	4 CTCTCTCATCAGAACAAAAATAAT	GGG	NA	Intergenic	NA	NA
chr1	185420854	185420876 +	4 CACACCCACAAAAATAAATAAT	GGG	567	Intronic	Eprs	ENSMUSG00000026615
chr18	20930451	20930473 +	4 CACACCCCAAAAAATAAATAAT	AGG	14152	Intergenic	Rnf125	ENSMUSG00000033107
chr6	30408069	30408091 +	4 CACTCTCTTAAAAAGAAAAATAAT	AGG	5919	Intronic	Klhdc10	ENSMUSG00000029775
chr5	132604077	132604099 -	4 CACACACCTTAAAAAGAAAAATAAT	AGG	53444	Intergenic	Gm42626	ENSMUSG00000105809
chr4	36774309	36774331 -	4 TACAGTCATAAAAAACAAATAAT	TGG	18155	Intronic	Gm23314	ENSMUSG00000087843
chr15	54035583	54035605 +	3 CACACTCTCAAAAGTAAATAAT	TGG	0	Exonic	Gm26933	ENSMUSG00000097938

chr2	158276185	158276207 +	4 AACACTGATAAAAAAAGAAT	GGG		196 Intronic	Bpi	ENSMUSG00000052922
chr5	53858375	53858397 -	4 CATACTCTTAAAAAAGAAT	AGG		1453 Intronic	Tbc1d19	ENSMUSG00000039178
chr1	161545010	161545032 -	4 CAAAGTTATCAAAAAAAGAT	AGG		7517 Intergenic	Gm25488	ENSMUSG00000089353
chr10	126373434	126373456 -	4 TACATTCATCAAAATATAAT	CGG	NA	Intergenic	NA	NA
chr9	6582992	6583014 -	4 CACACTGTTTCATAAAGAAT	AGG	NA	Intergenic	NA	NA
chr17	72484749	72484771 -	4 CTGACTCATCAATAATAAT	TGG		14518 Intronic	Gm24736	ENSMUSG00000089487
chr13	89988220	89988242 +	4 CACAGCCATCACAAAAGAAT	AGG		2831 Intronic	Xrcc4	ENSMUSG00000021615
chrX	48088706	48088728 +	4 CACAGCCATCAAAACGAAT	GGG		19997 Intergenic	Xpnp2p2	ENSMUSG00000037005
chr5	120736718	120736740 -	4 CACATTTGTCAAAAAACAT	AGG		534 Intronic	Oas2	ENSMUSG00000032690
chr18	5454256	5454278 -	4 CCCACACATCAACAAAAGAAT	AGG		37225 Intergenic	Gm10125	ENSMUSG00000063087
chr18	9667604	9667626 -	4 GACACTAATGAAAAAATAT	TGG		40022 Intergenic	Colec12	ENSMUSG00000036103
chr12	4081925	4081947 -	4 CTTACACATCAAAAAAATTT	TGG		627 Intergenic	Dnajc27	ENSMUSG00000020657
chr11	13589042	13589064 -	4 AACACTGATCAAAATCAAAAT	TGG	NA	Intergenic	NA	NA
chr17	55644577	55644599 +	4 AACAAATCATCAAAAGAAT	TGG		7426 Intergenic	Pot1b	ENSMUSG00000024174
chr1	73602311	73602333 +	4 CACAGACATCAAAACGAAT	GGG		15755 Intergenic	6030407O03Ri	ENSMUSG00000100301
chr15	50123984	50124006 +	4 CACACATATGAAAAAACAT	TGG	NA	Intergenic	NA	NA
chr4	111230136	111230158 +	4 CACCCTGATCAAAAGCAAAAT	TGG		28162 Intronic	Agbl1	ENSMUSG000000061298
chrX	147134789	147134811 +	4 CACAATAATCAAAAGCAAAAT	TGG		23399 Intronic	Mir448	ENSMUSG00000065450
chr7	142060650	142060672 +	4 CACTCTCTCAAAAGTAAAT	TGG		313 Intronic	Mob2	ENSMUSG00000025147
chr2	26989725	26989747 +	4 CACCCCATCAGAAAAACAT	GGG		306 Intronic	Adams13	ENSMUSG00000014852
chr4	108120313	108120335 -	4 CAGACTCTCAAAATAACAAT	CGG		1781 Intronic	Scp2	ENSMUSG00000028603
chr15	89551327	89551349 -	3 AACATTGATCAAAAAAAGAT	AGG		1445 Intronic	Shank3	ENSMUSG00000022623
chr1	91588929	91588951 +	4 CAGACACATTAAAAAAAGT	GGG		22455 Intergenic	Gm28380	ENSMUSG00000101705
chr5	146928876	146928898 -	3 CACCATCATCAAAAAAATAA	TGG		19759 Intergenic	Gtf3a	ENSMUSG00000016503
chr8	54801849	54801871 -	4 CAAACTGATCAAAACAGAAT	GGG		26427 Intronic	Wdr17	ENSMUSG00000039375
chr15	21090457	21090479 -	4 GTCTCTCATCAAAAAAATAA	AGG		20973 Intergenic	Cdh12	ENSMUSG00000040452
chrX	136984738	136984760 -	4 CACACATACCAAAAAAATTT	TGG		1117 Intronic	Slc25a53	ENSMUSG00000044348
chr1	60467108	60467130 -	4 CACACAAACCAAAAAAAGT	AGG		2493 Intronic	Abi2	ENSMUSG00000026782
chrX	150869169	150869191 +	4 AAAACTGATCAGAAAAAAGT	AGG		12116 Intergenic	Ith5l-ps	ENSMUSG00000087149
chr2	27409706	27409728 +	4 CACACCAATTAAAAAAAGT	GGG		7755 Intronic	Gm24049	ENSMUSG00000076364
chr12	16522944	16522966 -	4 CAAGCCCATCAAAAAAATAA	TGG		12703 Intergenic	Lpin1	ENSMUSG00000020593
chr2	85979679	85979701 +	4 CACTGTATCAAAAAATTAAT	GGG		3460 Intergenic	Olfir1029	ENSMUSG00000059873
chr16	57748992	57749014 +	4 AGCACTCTCAAAAAAATAA	AGG		5626 Intronic	Col8a1	ENSMUSG00000068196
chrY	59626923	59626945 +	4 CAAAGTTATCAAAAAAAGG	AGG		1018 Intronic	Gm20871	ENSMUSG00000101005
chrY	38794956	38794978 +	4 CAAAGTTATCAAAAAAAGG	AGG		1018 Intronic	Gm20901	ENSMUSG00000096275
chrY	19118837	19118859 -	4 CAAAGTTATCAAAAAAAGG	AGG		1018 Intronic	Gm35134	ENSMUSG00000103371
chrY	14406541	14406563 -	4 CAAAGTTATCAAAAAAAGG	AGG		1018 Intronic	Gm30737	ENSMUSG00000104191
chrY	42936138	42936160 -	4 CAAAGTTATCAAAAAAAGG	AGG		1018 Intronic	Gm29165	ENSMUSG00000099833
chrY	40311046	40311068 +	4 CAAAGTTATCAAAAAAAGG	AGG		1019 Intronic	Gm21865	ENSMUSG00000093895
chrY	43957992	43958014 -	4 CAAAGTTATCAAAAAAAGG	AGG		1019 Intronic	Gm21241	ENSMUSG00000096332
chrY	31377802	31377824 -	4 CAAAGTTATCAAAAAAAGG	AGG		1019 Intronic	Gm21737	ENSMUSG00000094623
chrY	33250843	33250865 +	4 CAAAGTTATCAAAAAAAGG	AGG		1019 Intronic	Gm21756	ENSMUSG00000095049
chrY	4789063	4789085 +	4 CAAAGTTATCAAAAAAAGG	AGG		1020 Intronic	Gm28356	ENSMUSG00000099684
chrY	29356220	29356242 -	4 CAAAGTTATCAAAAAAAGG	AGG		1020 Intronic	Gm21853	ENSMUSG00000096538
chrY	40925255	40925277 +	4 CAAAGTTATCAAAAAAAGG	AGG		1024 Intronic	Gm20832	ENSMUSG00000099645
chrY	18506526	18506548 -	4 CAAAGTTATCAAAAAAAGG	AGG		1024 Intronic	Gm30638	ENSMUSG00000102264
chrY	13793803	13793825 -	4 CAAAGTTATCAAAAAAAGG	AGG		1024 Intronic	Gm36728	ENSMUSG00000104404
chrY	11698233	11698255 -	4 CAAAGTTATCAAAAAAAGG	AGG		1026 Intronic	Gm28951	ENSMUSG00000099572
chrY	16383628	16383650 -	4 CAAAGTTATCAAAAAAAGG	AGG		1026 Intronic	Gm32033	ENSMUSG00000102208
chrY	68826897	68826919 +	4 CAAAGTTATCAAAAAAAGG	AGG		1035 Intronic	Gm20817	ENSMUSG00000100032
chrY	57193019	57193041 -	4 CAAAGTTATCAAAAAAAGG	AGG		1036 Intronic	Sly	ENSMUSG00000101155
chrY	76767411	76767433 -	4 CAAAGTTATCAAAAAAAGG	AGG		1036 Intronic	Gm21173	ENSMUSG00000100708
chrY	61652557	61652579 -	4 CAAAGTTATCAAAAAAAGG	AGG		1038 Intronic	Gm21497	ENSMUSG00000100726
chrY	48862308	48862330 -	4 CAAAGTTATCAAAAAAAGG	AGG		1039 Intronic	Gm28553	ENSMUSG00000100972
chr6	79828059	79828081 +	4 CAAAGTTATCAAAAAAAGG	TGG		9695 Intergenic	Gm20594	ENSMUSG00000096887
chr3	67641770	67641792 -	4 CAAAGTTATCAAAAAAAGG	GGG		21042 Intergenic	Gm412	ENSMUSG00000103606
chr1	113233971	113233993 +	4 CAAAGTTATCAAAAAAAGG	TGG		55347 Intergenic	Gm28189	ENSMUSG00000101453
chrX	156116296	156116318 +	3 CACATTCATGAAAAAAGG	TGG		54497 Intronic	Gm15155	ENSMUSG00000055109
chr1	61640835	61640857 +	4 CCCACACTCAAAAAAAGG	AGG		1473 Intronic	Pard3b	ENSMUSG00000052062
chr6	149499811	149499833 +	4 CACAACAATCAAAAAAAGG	TGG		2040 Intronic	Bicd1	ENSMUSG00000003452
chr4	144353936	144353958 -	4 CACAACAATCAAAAAAAGG	TGG		3984 Intergenic	Gm13119	ENSMUSG00000070619
chr2	87404403	87404425 +	4 CACAACAATCAAAAAAAGG	TGG		9759 Intergenic	Gm1826	ENSMUSG00000082028
chr8	66602928	66602950 -	4 CACAACAATCAAAAAAAGG	TGG		13920 Intergenic	Gm16330	ENSMUSG00000085082
chr18	17512983	17513005 +	4 CACAACAATCAAAAAAAGG	TGG	NA	Intergenic	NA	NA
chr15	98663408	98663430 -	4 AACACTTTTCAAAAAAAGG	GGG		0 Exonic	Rnd1	ENSMUSG00000054855
chr1	103227170	103227192 -	4 TAAACTCATTAAAAAAGG	AGG		9434 Intronic	Gm23965	ENSMUSG00000088594
chr16	93905611	93905633 -	3 CACACACATTAAAAAAAGG	AGG		272 Intronic	Chaf1b	ENSMUSG00000022945
chr7	41077274	41077296 +	3 CACACACATTAAAAAAAGG	AGG		329 Intronic	RP23-472J11	ENSMUSG00000108619
chr16	90141907	90141929 +	3 CACACGATCAAAAAAAGG	AGG		78813 Intergenic	Sod1	ENSMUSG00000022982
chr17	41730737	41730759 -	3 CACACACATGAAAAAAGG	AGG	NA	Intergenic	NA	NA
chrX	9915487	9915509 -	4 GACCCTCATGAAAAAAGG	AGG		0 Exonic	Syt15	ENSMUSG00000054453
chr4	31771808	31771830 +	4 CTCTCTCATAAAAAAAGG	AGG	NA	Intergenic	NA	NA
chrX	145457842	145457864 +	3 CACACTTATTAAAAAAAGG	TGG		1884 Intronic	Amot	ENSMUSG00000041688
chr2	172733247	172733269 +	4 CAAACGCAACAAAAAAGG	AGG	NA	Intergenic	NA	NA
chr16	16779619	16779641 +	4 GCCACTCATCTAAAAAAGG	TGG		980 Intronic	Spag6	ENSMUSG00000022783
chrX	14303246	14303268 -	4 TACATTCATCAAAAGAAAT	AGG		12133 Intergenic	Gm25202	ENSMUSG00000064772
chr13	47316461	47316483 -	4 AACAAATCATCAAAACAAAT	AGG		68470 Intergenic	Rnf144b	ENSMUSG00000038068
chr10	90701074	90701096 +	4 CACAGTAGTCAAAAAAAGG	AGG		17377 Intronic	Anks1b	ENSMUSG00000058589
chr14	13950656	13950678 +	4 AACACCCATTAAAAAAAGG	AGG		291 Intronic	Thoc7	ENSMUSG00000053453
chr13	102634963	102634985 +	4 AACACACATTAAAAAAAGG	AGG		58573 Intergenic	Cd180	ENSMUSG00000021624
chr12	61784194	61784216 -	4 CAAAATCATTAAAAAAAGG	TGG		55192 Intronic	Lrn5	ENSMUSG00000035653
chr7	79276899	79276921 +	4 CACAATCCTCAAAAGAAAT	GGG		846 Intronic	RP23-256J14	ENSMUSG00000108521
chr10	31454983	31455005 +	4 CACTGTATTAAAAAAAGG	AGG		9062 Intergenic	Tpd5211	ENSMUSG00000002096
chr19	53553968	53553990 +	4 CATACACATTAAAAAAAGG	AGG		11537 Intergenic	Dusp5	ENSMUSG00000034765
chr13	112781048	112781070 +	4 AACAAATCATCAAAAAAAGG	AGG		19824 Intergenic	Ppap2a	ENSMUSG00000021759

chr7	131441362	131441384 -	4 CTCACTTATTAATAAAAAAAAAAG	AGG		23 Intronic	Acad5b	ENSMUSG00000030861
chr17	26233111	26233133 +	4 CGCACTGATAAAAAAAAAAAAAA	GGG		7088 Intronic	Fam234a	ENSMUSG00000024187
chr3	126479015	126479037 +	4 CTCACTTATAAAAAAAAAAAAAA	TGG		31065 Intergenic	Gm20568	ENSMUSG00000010523
chr3	140133819	140133841 +	4 GACACTTATCAACAAAAAAT	GGG		15784 Intergenic	Gm4863	ENSMUSG000000105180
chr4	102357257	102357279 -	4 CAAACTGATAAAAAAAAAAAAAA	TGG		64239 Intronic	Pde4b	ENSMUSG00000028525
chr4	119032956	119032978 -	4 CACATACATGAAAAAAAAAAAAA	AGG		21812 Intergenic	Gm12866	ENSMUSG000000066060
chr7	77680261	77680283 -	4 CACAACCATGAAAAAAAAAAAAA	AGG	NA	Intergenic	NA	NA
chr15	37246253	37246275 -	4 AACACTCTTAATAAAAAAAAAA	AGG		3091 Intronic	Gm16137	ENSMUSG000000089949
chr17	70786706	70786728 +	3 CACACCCATCAAAACAAACT	GGG		60 Intronic	Dlgap1	ENSMUSG00000003279
chr5	62065005	62065027 +	4 CAAACTCCTAAAAAAAAAAAAA	AGG		60170 Intergenic	Gm42430	ENSMUSG000000106530
chr8	44205307	44205329 -	4 CACAATGATAAAAAAAAAAAAAA	TGG		22389 Intergenic	Gm37972	ENSMUSG000000102378
chrX	20825562	20825584 -	4 CACACAGATGAAAAAAAAAAAAA	TGG		1748 Intronic	Gm24824	ENSMUSG00000092838
chrX	159436356	159436378 -	4 CACACATATGAAAAAAAAAAAAA	AGG		7545 Intronic	Map7d2	ENSMUSG000000041020
chr11	72422986	72423008 +	4 CACACAAATTAATAAAAAAAAAA	AGG		11273 Intergenic	Smtnl2	ENSMUSG000000045667
chr13	53233058	53233080 -	4 CACACAAATGAAAAAAAAAAAAA	GGG		42411 Intronic	Ror2	ENSMUSG00000021464
chr16	82872720	82872742 +	4 CACACTGGACAAAAAAAAAAAAA	AGG		42839 Intergenic	Gm21833	ENSMUSG000000094030
chr16	38543501	38543523 -	4 CACACACTTAAAAAAAAAAAAA	AGG		542 Intronic	Poglut1	ENSMUSG000000034064
chr3	74333603	74333625 -	4 CACCATCATATAAAAAAAG	GGG		9611 Intergenic	Gm37050	ENSMUSG000000104227
chr8	15742126	15742148 +	4 AATACTCATCAACAAAAAAG	TGG	NA	Intergenic	NA	NA
chr13	99664774	99664796 +	4 CAAACACATCAGAAAAAAG	AGG		21971 Intergenic	1700012J22Rik	ENSMUSG000000103545
chr2	57612319	57612341 +	4 GACACTAATCACAATAAAAG	AGG		16648 Intergenic	Gm13532	ENSMUSG000000081642
chr6	123962180	123962202 +	4 AACACTAATCAAAAAGAAAGT	TGG		1431 Intronic	A330044P14Ri	ENSMUSG000000093385
chr6	123831969	123831991 +	4 AACACTAATCAAAAAGAAAGT	TGG		3399 Intronic	Vmn2r25	ENSMUSG000000094672
chr6	124047194	124047216 -	4 AACACTAATCAAAAAGAAAGT	TGG		3413 Intronic	Vmn2r26	ENSMUSG000000096630
chr1	134267058	134267080 +	4 AACACTAATCAAAAAGAAAGT	TGG		13805 Intergenic	Gm24517	ENSMUSG000000096676
chr9	102418601	102418623 -	4 CAGACTAATCAAAAATAAAGT	AGG		45381 Intergenic	Gm22894	ENSMUSG000000088138
chr1	94176464	94176486 -	3 CATACTCATCAAGAAAAAG	TGG		27931 Intergenic	Gm7891	ENSMUSG000000100990
chr13	66427358	66427380 +	4 CGCACTCCTCAAAAAGAAAGT	GGG		2340 Intronic	2410141K09Rik	ENSMUSG000000074832
chr13	66223498	66223520 +	4 CGCACTCCTCAAAAAGAAAGT	GGG		3799 Intergenic	Gm10772	ENSMUSG000000091347
chr13	65543206	65543228 +	4 CGCACTCCTCAAAAAGAAAGT	GGG		15938 Intergenic	Cbx3-ps2	ENSMUSG000000095692
chr7	45925775	45925797 -	4 CAGACTCTTCAGAAAAAAG	GGG		708 Intronic	Ccdc114	ENSMUSG000000040189
chr18	70745395	70745417 -	4 CACCCTCCTATAAAAAAAG	AGG	NA	Intergenic	NA	NA
chr5	74082331	74082353 -	4 ATACTCATCAATAAAAAAG	CGG		9784 Intergenic	Gm43416	ENSMUSG000000107255
chr8	105397044	105397066 -	4 CACACCAATCATAAAAAAAG	TGG		564 Intronic	Kctd19	ENSMUSG000000051648
chr13	54699749	54699771 -	4 CACACGAATCAAAAAGAAAGT	GGG		1690 Intergenic	Cdhr2	ENSMUSG000000034918
chr6	86256835	86256857 +	4 TACACTCCTCAAAAAGAAAGT	AGG		4698 Intronic	RP23-304D1.6	ENSMUSG000000107745
chr4	122290683	122290705 -	4 AACACTCTTCAAAAAGAAAGT	AGG		54766 Intergenic	Gm12893	ENSMUSG000000083867
chr4	121897697	121897719 -	4 AACACTCTTCAAAAAGAAAGT	AGG	NA	Intergenic	NA	NA
chr4	109343906	109343928 -	3 CACACTTATCAAAAATAAAG	AGG		550 Intronic	Eps15	ENSMUSG000000028552
chrX	114446060	114446082 -	4 AACACTGATCAAAAATAAAGT	TGG		28251 Intergenic	Kihl4	ENSMUSG000000025597
chr8	127102552	127102574 +	4 AACACTGATCAAAAAGAAAGT	TGG		29266 Intronic	Pard3	ENSMUSG000000025812
chr3	64987022	64987044 +	4 AACACTGATCAAAAATAAAGT	TGG		37489 Intronic	Gm38048	ENSMUSG000000102437
chr3	112134394	112134416 +	4 AACACTAATCAAAAAGAAAGT	TGG		52393 Intergenic	Gm6602	ENSMUSG000000104543
chr9	10844861	10844883 +	4 CACACTGGTCAAAAATAAAT	TGG		59477 Intronic	Cntn5	ENSMUSG000000039488
chr11	29031617	29031639 +	4 CACTTTCATCAAAAAGAAAG	TGG		74009 Intergenic	Rpsa-ps5	ENSMUSG000000081695
chr1	30465491	30465513 +	4 AACACTAATCAAAAAGAAAGT	AGG	NA	Intergenic	NA	NA
chr9	15744290	15744312 +	4 CACCCTGATCAAAAAGAAAGT	TGG		1906 Intergenic	Slc36a4	ENSMUSG000000043885
chr13	75556457	75556479 +	4 CACAATCAAAAAGAAAGT	TGG		88385 Intergenic	Gm4149	ENSMUSG000000074800
chr10	33220319	33220341 +	4 CACTCTCTCAAAAATAAAGT	TGG		13514 Intronic	Trdn	ENSMUSG000000019787
chr10	33038926	33038948 +	4 CACTCTCTCAAAAATAAAGT	TGG		44535 Intergenic	Trdn	ENSMUSG000000019787
chr4	80707874	80707896 -	4 CACTCTCTCAAAAATAAAGT	TGG	NA	Intergenic	NA	NA
chr4	85254397	85254419 +	4 CACAATCAAAAAGAAAGT	AGG		8635 Intronic	Gm12413	ENSMUSG000000081862
chr9	44233305	44233327 -	4 CACACAGATCAAAAAGAAAGT	AGG		34 Intronic	Cbl	ENSMUSG000000034342
chr3	13663517	13663539 -	4 CACACAAATCAAAAAGAAAGT	AGG		5970 Intergenic	Gm37164	ENSMUSG000000104514
chr2	87293013	87293035 +	4 CATATTCATCAAAAAGAAAG	AGG		7741 Intergenic	Olfri1117-ps1	ENSMUSG000000083706
chr5	48692365	48692387 +	4 CAAAGTCATCAAAAAGAAAGT	AGG		19703 Intronic	Gm43829	ENSMUSG000000105530
chr7	18361784	18361806 +	4 CAAAGTCATCAAAAAGAAAGT	AGG		6775 Intergenic	Psg18	ENSMUSG00000003505
chr6	106363460	106363482 -	4 CAAAGTCATCAAAAAGAAAGT	AGG		9680 Intronic	Cntn4	ENSMUSG000000064293
chr17	68547417	68547439 -	4 CAAAGTCATCAAAAAGAAAGT	AGG		12310 Intronic	L3mbtl4	ENSMUSG000000041565
chr10	33694022	33694044 -	4 CAAAGTCATCAAAAAGAAAGT	AGG		31590 Intergenic	Gm15939	ENSMUSG000000090087
chr13	88528216	88528238 -	4 CAAAGTCATCAAAAAGAAAGT	AGG		49160 Intergenic	Gm8526	ENSMUSG000000057685
chr16	69704203	69704225 -	4 CAAAGTCATCAAAAAGAAAGT	AGG		91910 Intergenic	Gm43265	ENSMUSG000000107073
chr16	27693333	27693355 +	4 CAAAGTCATCAAAAAGAAAGT	AGG	NA	Intergenic	NA	NA
chr8	54318756	54318778 +	4 CAAAGTCATCAAAAAGAAAGT	AGG	NA	Intergenic	NA	NA
chr16	51175994	51176016 +	4 CAAAGTCATCAAAAAGAAAGT	AGG	NA	Intergenic	NA	NA
chr15	33726465	33726487 -	4 CAAACTTATCAAAAAGAAAGT	GGG		38582 Intergenic	Tspy15	ENSMUSG000000038984
chr4	114151879	114151901 -	4 CAAACTTATCAAAAAGAAAGT	AGG		11483 Intergenic	Skint11	ENSMUSG000000057977
chr8	94490493	94490515 -	4 CAGACTCTTCAAAAAGAAAGT	AGG		71 Intronic	Nlrc5	ENSMUSG000000074151
chr7	58305221	58305243 -	4 CTCACACATCAAAAAGAAAG	TGG	NA	Intergenic	NA	NA
chr2	98411426	98411448 +	3 CAAACTGATCAAAAAGAAAG	AGG	NA	Intergenic	NA	NA
chr5	18262360	18262382 +	4 ATCACTGATCAAAAAGAAAGT	AGG		2753 Intergenic	Gnai1	ENSMUSG000000057614
chr7	87885576	87885598 +	4 TGCACATCAAAAAGAAAGT	TGG		75956 Intronic	Grm5	ENSMUSG000000049583
chr5	46627962	46627984 +	4 AAAAGTCATCAAAAAGAAAG	AGG	NA	Intergenic	NA	NA
chr14	16703542	16703564 +	4 TAAACTCATCAAAAATAAAG	AGG	NA	Intergenic	NA	NA
chr17	22382670	22382692 +	4 CCCAGTCATCAAAAAGAAAG	AGG		5389 Intergenic	Zfp758	ENSMUSG000000044501
chr13	8039218	8039240 +	4 CAAAGTCATCAAAAAGAAAG	AGG		1112 Intergenic	Gm9742	ENSMUSG000000091053
chr9	91219517	91219539 +	4 CAAAGTCATCAAAAAGAAAG	AGG		3061 Intergenic	Gm29602	ENSMUSG000000100568
chr10	100791681	100791703 -	4 CAAAGTCATCAAAAAGAAAG	AGG		3458 Intergenic	Gm38219	ENSMUSG000000103550
chr6	130468085	130468107 +	4 CAAATTCATCAAAAAGAAAG	AGG		5463 Intronic	RP23-451F7.8	ENSMUSG000000107492
chr6	68127317	68127339 -	4 CAAAGTCATCAAAAAGAAAG	AGG		5490 Intergenic	Igkv1-117	ENSMUSG000000094335
chr3	7544861	7544883 +	4 CAAAGTCATCAAAAAGAAAG	AGG		5678 Intronic	Zc2hc1a	ENSMUSG000000043542
chr6	68277545	68277567 -	4 CAAAGTCATCAAAAAGAAAG	AGG		6278 Intergenic	Igkv1-110	ENSMUSG000000093861
chr2	36345315	36345337 -	4 CAAAGTCATCAAAAAGAAAG	AGG		8235 Intergenic	Olfri337-ps1	ENSMUSG000000080936
chrX	17310692	17310714 +	4 CAAAGTCATCAAAAAGAAAG	AGG		8528 Intronic	Efhc2	ENSMUSG000000025038
chr19	39220318	39220340 -	4 CAAAGTCATCAAAAAGAAAG	AGG		8914 Intergenic	Cyp2c5-ps	ENSMUSG000000093610

chr3	139253209	139253231 -	4	CAAAGTCATCAAAAAGAAA	AGG	10024	Intronic	Stgp2	ENSMUSG00000047940
chrY	1799198	1799220 -	4	CAAAGTCATCAAAAAGAAA	AGG	10031	Intergenic	Gm29167	ENSMUSG00000101947
chr6	132923297	132923319 +	4	CAAAGTCATCAAAAAGAAA	AGG	10648	Intergenic	Tas2r146-ps1	ENSMUSG00000108261
chrX	62147330	62147352 +	4	CAAAGTCATCAAAAAGAAA	AGG	11002	Intergenic	Gm5390	ENSMUSG00000083617
chr8	7369840	7369862 +	4	CAAAGTCATCAAAAAGAAA	AGG	11153	Intergenic	Gm17215	ENSMUSG00000092092
chr8	129205129	129205151 +	4	CAAAGTCATCAAAAAGAAA	AGG	11203	Intergenic	2610044015Rii	ENSMUSG00000071302
chr6	68400774	68400796 +	4	CAAAGTCATCAAAAAGAAA	AGG	11703	Intergenic	Gm5310	ENSMUSG00000105248
chrX	13972621	13972643 -	4	CAAAGTCATCAAAAAGAAA	AGG	12742	Intergenic	Gm25552	ENSMUSG00000088706
chr7	11897306	11897328 -	4	CAAAGTCATCAAAAAGAAA	AGG	13918	Intergenic	Vmn1r-ps56	ENSMUSG00000092285
chr8	65143512	65143534 -	4	CAAAGTCATCAAAAAGAAA	AGG	13949	Intergenic	BC030870	ENSMUSG00000074300
chr17	38244910	38244932 -	4	CAAAGTCATCAAAAAGAAA	AGG	16135	Intergenic	Olf1r138	ENSMUSG00000057443
chr7	10342485	10342507 -	4	CAAAGTCATCAAAAAGAAA	AGG	16366	Intergenic	Nlrp4d	ENSMUSG00000034122
chr11	49388074	49388096 +	4	CAAAGTCATCAAAAAGAAA	AGG	16524	Intergenic	Gm12189	ENSMUSG00000084278
chrX	4472675	4472697 -	4	CAAAGTCATCAAAAAGAAA	AGG	16672	Intergenic	Gm9427	ENSMUSG00000080073
chr19	33536418	33536440 -	4	CAAAGTCATCAAAAAGAAA	AGG	18638	Intronic	Lipo4	ENSMUSG00000079344
chrX	90439336	90439358 +	4	CAAAGTCATCAAAAAGAAA	AGG	19964	Intergenic	Gm4746	ENSMUSG00000082479
chr6	66231929	66231951 -	4	CAAAGTCATCAAAAAGAAA	AGG	22792	Intergenic	RP23-478C7.1	ENSMUSG00000107695
chr1	150190960	150190982 -	4	CAAAGTCATCAAAAAGAAA	AGG	26012	Intergenic	Ptgs2os2	ENSMUSG00000097754
chr18	37589683	37589705 +	4	CAAAGTCATCAAAAAGAAA	AGG	29201	Intronic	4930517L18Rik	ENSMUSG00000104225
chr15	44315893	44315915 +	4	CAAAGTCATCAAAAAGAAA	AGG	29735	Intergenic	Gm24903	ENSMUSG00000088756
chr3	113089901	113089923 +	4	CAAAGTCATCAAAAAGAAA	AGG	33276	Intergenic	Gm38395	ENSMUSG00000105665
chrX	137534494	137534516 -	4	CAAAGTCATCAAAAAGAAA	AGG	36092	Intergenic	Il1rapl2	ENSMUSG00000059203
chr8	63817555	63817577 +	4	CAAAGTCATCAAAAAGAAA	AGG	38503	Intergenic	Gm5350	ENSMUSG00000098106
chr9	85062119	85062141 +	4	CAAAGTCATCAAAAAGAAA	AGG	42624	Intergenic	Gm28070	ENSMUSG00000101673
chr17	81837589	81837611 -	4	CAAAGTCATCAAAAAGAAA	AGG	45656	Intergenic	Rpl31-ps25	ENSMUSG00000097897
chr15	46028134	46028156 +	4	CAAAGTCATCAAAAAGAAA	AGG	48097	Intergenic	Gm5472	ENSMUSG00000096157
chr11	8056844	8056866 +	4	CAAATCATCAAAAAGAAA	AGG	51828	Intergenic	Gm24051	ENSMUSG00000089247
chrX	109455183	109455205 -	4	CAAAGTCATCAAAAAGAAA	AGG	63018	Intergenic	Gm4784	ENSMUSG00000082189
chrX	5542397	5542419 -	4	CAAAGTCATCAAAAAGAAA	AGG	66153	Intergenic	Gm14366	ENSMUSG00000082326
chr3	43476239	43476261 +	4	CAAAGTCATCAAAAAGAAA	AGG	70912	Intergenic	Gm36976	ENSMUSG00000104303
chr14	9098612	9098634 +	4	CAAAGTCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chrX	17448219	17448241 +	4	CAAAGTCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chr8	54336974	54336996 +	4	CAAAGTCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chr8	52877304	52877326 +	4	CAAAGTCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chr8	51581196	51581218 +	4	CAAAGTCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chr5	40140103	40140125 +	4	CAAATCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chr8	8159388	8159410 +	4	CAAAGTCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chr3	42706978	42707000 -	4	CAAAGTCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chr14	95475521	95475543 -	4	CAAAGTCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chr17	54775135	54775157 -	4	CAAAGTCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chr3	110832156	110832178 -	4	CAAAGTCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chrX	143772054	143772076 -	4	CAAATTTATCAAAAAGAAA	AGG	2286	Intronic	Pak3	ENSMUSG000000031284
chr1	109798515	109798537 +	4	CAAATTTATCAAAAAGAAA	AGG	6223	Intergenic	Gm25293	ENSMUSG00000084741
chr4	37269996	37270018 -	4	CAAATTTATCAAAAAGAAA	AGG	20438	Intronic	Gm12374	ENSMUSG00000086026
chrX	15343576	15343598 +	4	CAAATTTATCAAAAAGAAA	AGG	21581	Intergenic	Gm14519	ENSMUSG00000082838
chr4	78461286	78461308 +	4	CACAGTTATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chr4	129153242	129153242 -	4	CACACACCTCAAAAAGAAA	AGG	2129	Intronic	S100ppb	ENSMUSG00000040928
chr10	21936219	21936241 +	4	CACACACCTCAAAAAGAAA	GGG	7668	Intronic	Sgk1	ENSMUSG00000019970
chr7	5816912	5816934 -	4	CAAATTTATCAAAAAGAAA	AGG	11467	Intergenic	Vmn1r63	ENSMUSG00000058631
chr10	77348205	77348227 -	3	CACAGTCATCAAAAAGAAA	AGG	8029	Intronic	Adarb1	ENSMUSG00000020262
chrX	10517957	10517979 +	4	GGCACTCATCAAAAAGAAA	GGG	7801	Intronic	Gm25885	ENSMUSG00000088404
chr4	107057377	107057399 -	4	CCCAGTCATCAAAAAGAAA	TGG	0	Exonic	Mpl37	ENSMUSG00000028622
chr7	86235583	86235605 -	4	CAAAGTCATCAAAAAGAAA	AGG	4313	Intronic	Vmn2r76	ENSMUSG00000091239
chr6	60606333	60606355 +	4	CAAAGTCATCAAAAAGAAA	AGG	15144	Intergenic	RP24-89H23.1	ENSMUSG00000108003
chr2	65650992	65651014 -	4	CAAAGTCATCAAAAAGAAA	AGG	17672	Intronic	Scn2a1	ENSMUSG00000075318
chr7	125013982	125014004 -	4	CAAAGTCATCAAAAAGAAA	AGG	53025	Intergenic	RP24-178G20	ENSMUSG00000108407
chr14	91164398	91164420 -	4	CAAAGTCATCAAAAAGAAA	AGG	56106	Intergenic	Gm23225	ENSMUSG00000088746
chr8	55580533	55580555 +	4	CAAAGTCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chr9	16609244	16609266 +	4	CAAAGTCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chr12	14607531	14607553 -	4	CAAAGTCATCAAAAAGAAA	AGG	NA	Intergenic	NA	NA
chr11	95354796	95354818 -	4	CACAGGCATCAAAAAGAAA	GGG	848	Intronic	Fam117a	ENSMUSG00000038893
chr8	119808110	119808132 -	4	CACACACCTCAAAAAGAAA	GGG	1093	Intergenic	Cotl1	ENSMUSG00000031827

#P-4

Species: Mouse (Mus musculus GRCm38/mm10)

Input: TATTAGAAGAGCGAGGTCTGCGG

PAM: NGG

Chromosome	start	end	strand	MM	target_seq	PAM	distance	position	gene name	gene id
chrX	7579594	7579616 +	0	TATTAGAAGAGCGAGGTCTG	CGG	0	Exonic	Ppp1r3fos	ENSMUSG00000039545	
chr7	50537428	50537450 -	3	CTTTAGAAGAGTGAGGTCTG	TGG	11490	Intronic	Nell1os	ENSMUSG00000085265	
chr2	148559444	148559466 +	3	GAATAGAAGAGAGAGGTCTG	AGG	65245	Intergenic	Gm25866	ENSMUSG00000088870	
chr1	180703680	180703702 -	4	GTTAAGAAGAGGGAGGTCTG	TGG	6646	Intergenic	Mixl1	ENSMUSG00000026497	
chr5	35787005	35787027 +	4	GGTGAGAAGAGAGAGGTCTG	GGG	11426	Intronic	Ablim2	ENSMUSG00000029095	
chr3	79994232	79994254 -	4	CAAGAGAAGAGGGAGGTCTG	CGG	47952	Intergenic	Fam198b	ENSMUSG00000027955	
chr9	21633138	21633160 +	3	CATTAGAGGAGAGAGGTCTG	TGG	84	Intronic	Smarca4	ENSMUSG00000032187	
chr5	28162360	28162382 +	4	TGATAGAGGACCCAGGTCTG	CGG	3312	Intergenic	En2	ENSMUSG00000039095	
chr5	91451610	91451632 +	4	TGTGGGAAGAGAGAGGTCTG	AGG	48616	Intergenic	Btc	ENSMUSG00000082361	
chr14	19336816	19336838 +	4	TTGTATAAGAGTGAGGTCTG	GGG	64889	Intergenic	Gm9637	ENSMUSG00000093814	
chr4	114719100	114719122 -	4	TGTTTTAAGAGTGAGGTCTG	GGG	31505	Intergenic	Gm12829	ENSMUSG00000085870	
chr7	127304060	127304082 +	4	GATCAGATGAGTGAGGTCTG	AGG	851	Intronic	Itgal	ENSMUSG00000030830	
chr14	29188009	29188031 +	4	CTTTAGCAGAGCCAGGTCTG	GGG	4368	Intronic	Cacna2d3	ENSMUSG00000021991	
chr3	153068414	153068436 -	3	TATTAATAAGTGAGGTCTG	AGG	86168	Intergenic	St6galnac5	ENSMUSG00000039037	
chr10	118770781	118770803 +	4	CTTTAGAAGTGAGGTCTG	AGG	88546	Intergenic	Dyrk2	ENSMUSG00000028630	
chr6	134693269	134693291 +	4	TACAAGAACAGTGAGGTCTG	AGG	1967	Intronic	RP23-246J18.1	ENSMUSG00000108166	

chr18	30321996	30322018 -	4 TGTTGGCAGAGCAAGGCTCG	TGG	152 Intronic	Pik3c3	ENSMUSG00000033628
chr8	72164293	72164315 -	4 TTCTAGAAGACAGAGGCTCG	TGG	2811 Intronic	Rab8a	ENSMUSG00000003037
chr17	24042572	24042594 +	4 TGTTATAAAGTGAGAGGCTCG	AGG	208 Intronic	Prss27	ENSMUSG000000050762
chr13	53496537	53496559 -	4 TACTGGA AAAAGCCAGGCTCG	CGG	23463 Intergenic	Msx2	ENSMUSG000000021469
chr13	109329044	109329066 -	3 TATTAGATCAGCTAGGCTCG	AGG	4220 Intronic	Mir582	ENSMUSG00000076946
chr3	101664090	101664112 +	4 TACTAGCAGGGAGAGGCTCG	AGG	27677 Intergenic	Gm43135	ENSMUSG000000106070
chr12	55856833	55856855 +	4 TATTTTAGGAGCCAGGCTCG	AGG	3236 Intronic	Brms1l	ENSMUSG000000012076
chr12	75019678	75019700 +	4 TATTC AAGGAGCAAGGCTCG	TGG	11879 Intronic	Kcnh5	ENSMUSG000000034402
chr3	38669184	38669206 +	4 TACTTGAAGAAGGAGGCTCG	GGG	53626 Intergenic	Gm43538	ENSMUSG000000106168
chr5	28602515	28602537 -	4 CACTAGAAGAACCAAGGCTCG	AGG	23555 Intronic	Gm43161	ENSMUSG000000104587
chr2	151531252	151531274 -	3 TATTA AAAAGAACCAAGGCTCG	GGG	9457 Intergenic	Gm14167	ENSMUSG000000087433
chr3	59357028	59357050 +	4 GGTTAGAAGGAGCAAGGCTCG	TGG	5861 Intergenic	Gm38186	ENSMUSG000000103668
chr10	27937793	27937815 -	4 GATGAGAAGGAGAAAGGCTCG	GGG	965 Intergenic	Gm10145	ENSMUSG000000064208
chr2	146470509	146470531 -	4 AATTAGAGGACCAAGGCTCG	AGG	8846 Intronic	Ralgapa2	ENSMUSG000000037110
chr19	42688813	42688835 +	4 TATTAGCATGGGCAAGGCTCG	AGG	10942 Intergenic	Gm25216	ENSMUSG000000102768
chr9	44555490	44555512 +	4 TGTTGGAAGAGAGTGGTCTCG	GGG	689 Intronic	Cxcr5	ENSMUSG000000047880
chr6	120259486	120259508 +	3 TCTAAGAAGAGCGAGGACTG	AGG	16843 Intronic	B4galnt3	ENSMUSG000000041372
chr13	92721717	92721739 -	4 CATCAGAAGAACGACGCTCG	AGG	9773 Intergenic	Serinc5	ENSMUSG000000021703
chr1	71861152	71861174 -	4 AATTAGCAGAGAGGGTCTCG	GGG	14542 Intergenic	Gm37217	ENSMUSG000000102689
chr2	4485517	4485539 -	4 TTTAAGAAGAGCAGGGTCTCG	AGG	1385 Intronic	Frm4a	ENSMUSG000000026657
chrX	17203791	17203813 -	4 AATTAGGGGAGCGAGCTCG	TGG	940 Intronic	Efhc2	ENSMUSG000000025038
chr19	53344536	53344558 +	4 CACTGGAAGAGCGAGGACTG	TGG	1893 Intronic	Mxi1	ENSMUSG000000025025
chr16	15890186	15890208 -	4 TAATTGAAGAGGGAAGTCTCG	GGG	401 Intronic	Spidr	ENSMUSG000000041974
chr1	121947969	121947991 +	4 CATTAAAAGAGGAGGCTCG	TGG	21226 Intergenic	Gm15394	ENSMUSG000000083584
chr6	18215332	18215354 -	4 TTGTAGAAGAGCCAGTCTCG	GGG	1017 Intronic	Cftr	ENSMUSG000000041301
chr9	16178477	16178499 -	4 TATAACAAGAGTGAGCTCG	TGG	68222 Intronic	Fat3	ENSMUSG000000074505
chr6	3387973	3387995 -	4 TATGAGATGAGCTATGCTCG	TGG	2967 Intronic	Samd9l	ENSMUSG000000047735
chr6	3428507	3428529 -	4 TATGAGATGAGCTATGCTCG	TGG	28567 Intergenic	Hepacam2	ENSMUSG000000044156
chr10	22886046	22886068 -	3 TATGAGAAGAGGGAGGCTCG	AGG	65918 Intergenic	Tcf21	ENSMUSG000000045680
chr11	42358942	42358964 +	4 TATAAGCAGAGCCAGTCTCG	GGG	37870 Intergenic	Gabra6	ENSMUSG000000020428
chr4	124861301	124861323 -	4 TTTTAGGAGAGTGAGGCCCTG	GGG	310 Intronic	Maneal	ENSMUSG000000042763
chr7	67846934	67846956 +	4 TATTGAAAGGGCAGGCTG	GGG	43438 Intergenic	4833412C05Rik	ENSMUSG000000097697
chr1	66693197	66693219 -	4 GATGAGAAGAGAGAGGCTG	AGG	473 Intronic	Unc80	ENSMUSG000000055567
chr12	108313546	108313568 -	4 CATTAGGAGAGCCAGGCTG	GGG	211 Intronic	4930478K11Rik	ENSMUSG000000097847
chr17	69282379	69282401 +	4 TTTTAGATGAGCGAAGACTG	TGG	1484 Intronic	Epb4113	ENSMUSG000000024044
chr13	64267636	64267658 -	4 GTTTTGAAGAGCGAGGCTC	AGG	0 Exonic	1810034E14Rik	ENSMUSG000000097101
chr13	40235613	40235635 +	4 GOTTGAAAGAGCGAGGCTT	GGG	19803 Intronic	Ofcc1	ENSMUSG000000047094
chr7	4597862	4597884 +	4 TTTGAGAAGAGTGAGGTCAG	GGG	30 Intronic	Ptprh	ENSMUSG000000035429
chr7	4573211	4573233 +	4 TTTGAGAAGAGTGAGGTCAG	GGG	30 Intronic	Ptprh	ENSMUSG000000035429
chr9	49718430	49718452 +	4 GATAAGAAGAGCAAGGTCAG	AGG	80226 Intronic	Ncam1	ENSMUSG000000039542
chr5	20670367	20670389 +	4 TATAAGGAGAGCGAGTGCTG	AGG	9015 Intronic	Magi2	ENSMUSG000000040003
chr4	106018041	106018063 +	4 TAATAGATGAGAGAGGTCAG	AGG	42156 Intergenic	Gm24363	ENSMUSG000000089065
chr8	79987564	79987586 -	4 TTTGAGAAGAACGAGGCTA	GGG	547 Intronic	Hhip	ENSMUSG000000064325
chr11	8521133	8521155 +	3 TATTTGAAGAGCAAGGCTC	AGG	1563 Intronic	Tns3	ENSMUSG000000020422
chr1	166996977	166996999 -	4 TTTTATAAGAGGGAGGCTC	TGG	1296 Intronic	Gm16701	ENSMUSG000000097823
chrX	136525104	136525126 +	4 TTTCCAGAAGAGCCAGGCTT	TGG	0 Exonic	Kir3dl1	ENSMUSG000000031424
chrX	136457620	136457642 -	4 TTTCCAGAAGAGCCAGGCTT	TGG	0 Exonic	Kir3dl2	ENSMUSG000000057439
chr1	59094382	59094404 +	4 TATCAGATGAGGAGGCTC	AGG	94 Intronic	Als2cr11	ENSMUSG000000072295
chr14	14260183	14260205 +	4 TATTATGAGAGCTAGGCTC	AGG	62705 Intergenic	Olfir31	ENSMUSG000000072707
chr3	33805801	33805823 -	4 TAATAGTAGAGCGAGGACTA	GGG	993 Intronic	Ttc14	ENSMUSG000000027677