

Supplemental Table 1: Probes, primers, gRNA sequences, and deletions.

coordinates correspond to genome mm9

Northern blot/in situ probes					
Transcript Detected	5' primer	3' primer	probe coordinates		
Calm1 short and long 3' UTR mRNAs	N.529_Calm1_uni;CCTGCCCCCTAAAGTCAAGC	N.530_Calm1_uni; TTGATGGTGTGCTCAAGTCC	chr12:101,444,821-101,445,428		
Calm1 long 3' UTR	N.559_calm1_ext;TGTA CTGTGCCAGGGAAGG	N.560_calm1_ext; TCAAACAGCCACAGTGAAGG	chr12:101,447,277-101,447,864		
Psm4	ML_mg_9_Psm4mRNA;CAGCCGATTCTTGGCTAAAC	ML_mg_XX_Psm4mRNA;CCACACTGTCCAACCCAAAG	chr3:94,837,448-94,839,789		
Calm2	BB_NB_200_MmCalm2_F1;TCGCCATGTGATGACAAACC	BB_NB_201_MmCalm2_R1;CCACGCAGAGTTACAGCTCC	chr17:87,834,519-87,832,996		
Calm3	BB_NB_202_MmCalm3_F1;GGGACTGCATAGAGTGGACG	BB_NB_203_MmCalm3_R1; GGCTAGAGTCAGAAGCAAGGG	chr7:17,501,649-17,501,102		
RT-qPCR primers					
5' primer	3' primer	5' primer chromosome location	3' primer chromosome location		
N.529_calm1_uni;CCTGCCCCCTAAAGTCAAGC	mSy.26_calm1_prox_R;GCAAATGGAACTTTAAGGAGTCC	chr12:101,444,821-101,444,840	chr12:101,444,897-101,444,919		
N.559_calm1_ext;TGTA CTGTGCCAGGGAAGG	mSy.28_calm1_ext_R;TGTTTAAGTTGCTCAAAGACACC	chr12:101,447,277-101,447,296	chr12:101,447,337-101,447,359		
ML_mg_9_Psm4mRNA;CAGCCGATTCTTGGCTAAAC	ML_mg_10_Psm4mRNA;TCCAGACCTAAGCAGCATGA	chr3:94,837,448-94,837,467	chr3:94,837,606-94,837,625		
BB_qP_MmHprt_F1;CTTCCTCCTCAGACCGCTTT	BB_qP_MmHprt_R1;TCATCGCTAATCACGACGCT	chrX:50,341,356-50,341,375	chrX:50,341,419-50,352,278		
Guide RNAs					
Name	Sequence	Chromosome	Start	End	Strand
Guide 1	ACGCAACATCCAGTGCAAGC	chr12	101445610	101445629	+
Guide 2	GCTTGCACTGGATGTTGCGT	chr12	101445610	101445629	-
Guide 3	CTCTGACGGGGGACCAACTC	chr12	101447929	101447948	+
Guide 4	GAGTTGGTCCCCCGTCAGAG	chr12	101447929	101447948	-
Guide 5	TTTGCGGTATACGAGACAAA	chr12	101448072	101448091	+
Guide 6	TTGTCTCTGATACCGCAAAA	chr12	101448072	101448091	-
Resulting Deletions					
Deletion name	Deletion coordinates	Combination of Guides	Sanger Sequenced?		
Large	chr12:101,445,626-101,448,077	Guide 1, Guide 2, Guide 5, Guide 6	Y		
Medium	chr12:101,445,627-101,447,931	Guide 1, Guide 2, Guide 3, Guide 4	Y		
Small	chr12:101,447,929-101,448,092	Guide 3, Guide 4, Guide 5, Guide 6	Y		
Genotyping primers					
Deletion Detected	5' primer	3' primer	5' primer chromosome location	3' primer chromosome location	
Large/Medium	m.g.2.Calm1 proxpA Fwd;CGTCCATTCCAAGTTGTAAATGC	m.g.1.Calm1 dispA Rev;CTATCTCCAGTCCACACTCTCA	chr12:101,445,456-101,445,478	chr12:101,448,139-101,448,161	
Small	hj_m.g.7_distalPAS;TCAGCATCCTGGGAAGTTCT	hj_m.g.8_distalPAS;GGGTCA TCACATCCAGCTTA	chr12:101,447,500-101,447,519	chr12:101,448,491-101,448,510	