

Supplemental Fig. 1b Exon 2 primers

Exon 2 sequencing with Fluidigm + Illumina MiSeq

Inner Primers:

Primer Name	Location	Size ^a	Sequence ^b
CS1-DRB283g_F ^c	exon 2	247 bp	5' - [CS1] tccccacagCACGTTTCTT
CS2-DRB283g_R	exon 2		5' - [CS2] cCTCGCCGCTGCACTGT
CS1-DRB283g_F ^c	exon 2	247 bp	5' - [CS2] tccccacagCACGTTTCTT
CS1-DRB283g_R	exon 2		5' - [CS1] cCTCGCCGCTGCACTGT
CS2-DQA243g_F	exon 2	204 bp	5' - [CS2] GTTGCCTCTTRCGGTGTAAA
CS1-DQA243g_R	exon 2		5' - [CS1] acCATTGGTAGCAGCGGTR
CS2-DQB192g_F	exon 2	154 bp	5' - [CS2] cccgcagAGGATTTTCGTG
CS1-DQB192g_R	exon 2		5' - [CS1] GTCCTTCTGGCTGTTCCAGT
CS2-DPA212g_F	exon 2	173 bp	5' - [CS2] CACATAGACCAACAGGGGAGT
CS1-DPA212g_R	exon 2		5' - [CS1] acCATTGGCGGCKGAGT
CS2-DPB228g_F	exon 2	192 bp	5' - [CS2] GCGTTTAAAYGGACACAGC
CS1-DPB272g_R	exon 2		5' - [CS1] TCGGCGCTKCAGGGTCA

CS1 - 22 bp 5' - ACACTGACGACATGGTTCTACA
 CS2 - 22 bp 5' - TACGGTAGCAGAGACTTGGTCT

Outer Primers:

Primer Name	Location	Sequence
PE1-CS1	-	47 bp 5' - [PE1] [CS1]
PE2-BC-CS2	-	56 bp 5' - [PE2] [index] [CS2]

PE1 - 25 bp 5' - AATGATACGGCGACCACCGAGATCT
 PE2 - 24 bp 5' - CAAGCAGAAGACGGCATAACGAGAT

indexes (IDX) - 10 bp 10bp sequences available from Fluidigm pre-integrated with PE2 and CS2 linkers

^a size of product of interest, once all primers have been trimmed

^b lower-case letters in primer sequences indicate portions of the primer corresponding to intronic sequence

^c two sets of DRB primers, differing only in which CS sequence is used for the forward/reverse primers, were used to increase sequencing pool diversity to improve overall sequencing results

