

Supplemental Table 1: Primers for border mapping the 318 donor region

Primer Name	Primer Sequence	Chr. 7 Location	318 congenic genotype
D7B6C1-F	TTCCTGTCTCCTTTGGGGTA	79110107	B6By (background)
D7B6C1-R	TCCAGATCCAGAGACACAGAA	79110417	B6By (background)
D7B6C2-F	TTATATCTGCCCCCATGCTC	79400293	B6By (background)
D7B6C2-R	GCAAGTGATGGTGTGTGGAC	79400497	B6By (background)
D7B6C3-F	CTGTGTGAACACGTGTCTAGAGG	79710098	BALB/cByJ (congenic)
D7B6C3-R	CCTGTGTCAGGCAGATCAAA	79710320	BALB/cByJ (congenic)
D7B6C4-F	AAAGGGGGAGCAAAAGAGAG	81202253	BALB/cByJ (congenic)
D7B6C4-R	TGAAGACAACCTGGCAGTCC	81202514	BALB/cByJ (congenic)
D7B6C5-F	TTACCGAATGAGTGCACCTG	81559659	BALB/cByJ (congenic)
D7B6C5-R	AGAGTCACCAGCCAAGCCTA	81559863	BALB/cByJ (congenic)
D7B6C6-F	GCCTGCCAGACTCACCTACT	82232169	B6By (background)
D7B6C6-R	GAAGGGGGACAACATTTGAA	82232390	B6By (background)
D7B6C7-F	GCTGTCTCCTGACCATCACA	82247623	B6By (background)
D7B6C7-R	TCCAGGAATCATCCTGCTCT	82248062	B6By (background)

318 congenic borders were defined using primers that amplified microsatellite markers

that had variable repeats between C57BL/6ByJ and BALB/cByJ strains.