Appendix A

Table S1 Primers used in this study

	Upper Primers (from 5′ to 3′)		Lower Primers (from 5′ to 3′)	
mVH-bBAC	J558.67.166-Promoter1	CACCCCGTTAAATGGACACAT	J558.67.166- VHas2	AAACGGACTATCTGAATGGCTGT
vector construction	6801-P1		7861-V2	
	CTAGCTAGCACCTCACAAATGGTATGAAAAGTGTAAAATTATGTTACCTTTCTTCGAAACTGCCACACTGCCTGCCGAGGTGACTGGATGAATTCCACCCCGTTAAATGGACACAT		CTAGCTAGCCTGGGGTGAAGTCGGGTAGGGGAATAGTCCTGTAGCTCCTTTCTTGGGCTAGAAGGAATCCTGTACAAGGGAGCTGGTCCAAACGGACTATCTGAATGGCTGT	
	F-6739	TTCTTTGGTGCTCAGCCTTC	R-7110	CTTTCACCAGAGCAGCTGAG
	F-8594	AATCCTCCAGCACAGCCTAC	R-9175	GGGAGGAAACAGGCACAAC
			VJ558.67.166-Leaderas	
			CTGCACCTGGGACAGGACCCCTGTAGCTGTTGCTACCAAAAAGAG	
mPL-bVH-bBAC	bovineVH		JH6as	TGAGGAGACGGTGACCCTGAG
vector construction	CTCTTTTTGGTAGCAACAGCTACAGGGGTCCTGTCCCAGGTGCAG			
	54064-P1		56092-JH6as	
	CTAGCTAGCGTGGAGAGCCTCGGGAGGGGCAGGGAGCATGTGACCTCATGGGAACAAAGCAGATCAGGAGACAGCAGACACTCAAATCCGAATTCCACCCCGTTAAATGGACACAT		CTAGCTAGCATCAGAGGACCAGACAGTGATGCTCAGAAAAATCGCACGAAATGAGATAAAGCAAAGGCCCTGGATGGGCTGCTCTTACCTGAGGAGACGGTGACCCTGAG	
	F-53926	CTGAAGGCACTGGAGAAGAG	R-54263	GAGGAAGAACCACTGTGGTAC
	F-55797	AGTGAGCAGCGTGACAACTG	R-56214	GCTAGGACTGCAGCAAGTTG
	F-126849	AGCAAGCTCCCACCCCGTCTCCGCAC		
	F-126886	CCAGCCAGCCTTGTCGTCCCAGTGAA		

(continued)

		Upper Primers (from 5′ to 3′)		Lower Primers (from 5′ to 3′)
Identification of transgenic mice	PLF1B	CCAACTGCCACTAGGAAAGAG	PLR1	AGCTCCATCCCATTGTGAGGT
	LVF3	TGAGCACACAGGACCTCACAAT	LVR3	CTAAGTCCCAGGGCAGTTTGTT
	J6CHF1	TGAGCTGAGCCTGGTTGAGCT	J6CHR1	TGTGAGGCATCCTGCTGGTTG
	LJ6F1A	TGTCCCTTCTTCTCCAGCAGG	LJ6R1	CTGCTCTTACCTGAGGAGACG
	DHF1	CCACCTCAGAGACAGCTGGAG	DHR1	CTGAGCTGCTCATCCTTGTGG
	DHF2	TCCACACCCAGCAGACAAGAC	DHR2	TACAGGATCCCTGGTCGTGAC
	JHF1	TCAGGAAGACAGACTTGCAGC	JHR1	CACCCTCGATTTTCCCCAAAG
	JHF2	AAAATCGAGGGTGTCGGGTCT	JHR2	AAGGACACATCAGAGGACCAG
	CH F1	CCAACCAGCAGGATGCCTCAC	CHR1	CTCTGGGAAGCCAAGGCTCAG
	CHF2	GGACCTCTCCCTTCACCTGAT	CHR2	AGACAGGACCAGGGACACGTT
	TMF	AGTCCCCCAACCCTTCTGATG	TMR	TGGTGCCCCATGTTCTTGGCT
	probe-F	ATTCAGTCAGCTTCTCCTGGA	probe-R	TTCTTCTGGAAGGTTTCCTTG
RT-PCR	β-actin-F	TGTTACCAACTGGGACGACA	β-actin-R	TTGATGTCACGCACGATTT
	bovine J_H6	ACTATGGTATAGACGCCTGGGG	bovine Cμ1	TCACGGTGCCGACGGTCTT
	mouse-FV_H	AGAAGTTCAAGAGCAAGGCC	bovine-RCH1	CTCACGGTGCCGACGGTCTT
	bFCH2	GTGACGGCAATAGCAAGTCC	bRCH2	TATGGGTGAGGACTGCACAGT
	bovine F-VH1	AAGCGACAAGGCTGTAGGCTG	bovine R-CH1	CTCACGGTGCCGACGGTCTT
5’ Race			bCμ-GSP3	TGACTGAATTGGGCATGAAG
			bCμ-GSP2	CTGTTGTTGAACTTCCAGGAG
Detection of trans-spliced transcripts	bVH1	AAGCGACAAGGCTGTAGGCTG	mCδ-2	AGTGACCTGGAGGACCATTGT
	bVH3	AGCCCTGAAATCCCGACTCAG	mCδ-3	GACTTCTTTGGCTCCCAGCTG
			mCα-2	TCAACTGGCTGCTCATGGTGT
			mCγ	TCACTGTCACTGGCTCAGGG

(continued)

	Upper Primers (from 5′ to 3′)		Lower Primers (from 5′ to 3′)	
Ig repertoire analysis			RTCμ	GATGACTTCAGTGTTGT
			RTCκ	TCAAGAAGCACACGAC
			RTCλ	ACACCAGTGTGGCYTT
	VH	16 equivalent VH family forward primers	reverse Cμ	CATGGCCACCAGATTCTT ATC
	VL	19 equivalent Vκ families	Cκ	GCACCTCCAGATGTTAACTG
	VL	8 equivalent Vλ families	Cλ	AGCTCCTCAGRGGAAGGTG

Note: The homologous-arm sequences were marked in grey.