

Supplementary Figure 1. Homology analysis of TRAV13 family members of 129 and B6 strains. Coding sequences of TRAV13 family members were aligned and compared against each other. Percentages of homology between each family member are indicated. Sequences with homology of 96% and above are color-coded similarly.

Supplementary Figure 2. Identical nucleotide sequences of RSSs of D δ , J δ , J α 48 and J α 56 gene segments of B6 and 129 strains.

Strain		C57BL/6													129									
		DD1	DD2	DD3	DD4	D1	D2	D3	D4	1	2	3	4	5	D1	D2	D3	D4	1	2	3	4	5	
		C57BL/6	DD1	100	91	90	91	99	91	90	92	96	91	91	92	86	96	91	91	92	97	91	91	92
DD2	91		100	88	96	90	100	88	91	92	96	88	97	87	92	96	88	91	91	98	89	97	87	
DD3	90		88	100	87	90	88	99	88	90	87	99	88	82	90	87	98	88	91	87	98	88	81	
DD4	91		96	87	100	90	96	87	91	91	97	87	97	87	92	97	88	91	91	96	88	98	87	
D1	99		90	90	90	100	90	90	92	96	91	90	91	84	96	90	91	92	96	90	91	91	85	
D2	91		100	88	96	90	100	88	91	92	96	88	97	87	92	96	88	91	91	99	89	97	87	
D3	90		88	99	87	90	88	100	88	90	88	99	88	82	90	87	98	88	91	87	98	88	81	
D4	92		91	88	91	92	91	88	100	92	91	88	92	87	92	91	89	99	92	91	89	93	87	
1	96		92	90	91	96	92	90	92	100	92	91	91	86	99	91	91	92	97	91	91	91	85	
2	91		96	87	97	91	96	88	91	92	100	88	96	87	92	99	88	91	91	96	88	97	87	
3	91		88	99	87	90	88	99	88	91	88	100	88	82	90	87	98	88	91	87	98	88	81	
4	92		97	88	97	91	97	88	92	91	96	88	100	86	92	96	89	92	91	96	89	98	86	
5	86		87	82	87	84	87	82	87	86	87	82	86	100	85	87	83	87	85	87	83	88	99	
129	D1		96	92	90	92	96	92	90	92	99	92	90	92	85	100	92	90	92	97	91	91	92	84
	D2	91	96	87	97	90	96	87	91	91	99	87	96	87	92	100	88	97	90	96	88	96	87	
	D3	91	88	98	88	91	88	98	89	91	88	98	89	83	90	88	100	89	91	88	98	89	82	
	D4	92	91	88	91	94	91	88	99	92	91	88	92	87	92	97	89	100	92	91	89	93	87	
	1	97	91	91	91	96	91	91	92	97	91	91	91	85	97	90	91	92	100	90	92	91	85	
	2	91	98	87	96	90	99	87	91	91	96	87	96	87	91	96	88	91	90	100	88	96	87	
	3	91	89	98	88	91	89	98	89	91	88	98	89	83	91	88	98	89	92	88	100	89	82	
	4	92	97	88	98	91	97	88	93	91	97	88	98	88	92	96	89	93	91	96	89	100	87	
	5	85	87	81	87	85	87	81	87	85	87	81	86	99	84	87	82	87	85	87	82	87	100	

RSS**Nucleotide Sequences**

5'D δ 1	TGTTTTTGT ACGGCTGTGTTT CACTGTG
5'D δ 2	GGTTTTTGC AAAGCTCTGTAG CACCGTG
3'D δ 1	CACACAG GTTGAAGTATATTAAACCTCTGT TCAGAAACA
3'D δ 2	CACAGTG TTGCAAACCCCATAGGGACCTGT ACAAAAAC
J δ 1	GGTTTTTGG AATGGCCTCAGT AGCTGTG
J δ 2	GGTTATCTG CAAAGCAAGATT ATAACGT
J α 48	GGATTTTGT AATGGCTTGGCA CACTGTG
J α 56	AGTTTTTGT AGAGTCCCGTGT CATTGTG