

**Supplementary Table 1**

VH Family	Prototype	sequences Found <sup>a</sup>	Frequency of Family <sup>b</sup>	Number of Germline Sequences <sup>c</sup>	Frequency of Family / Number of Germlines	Nucleic Acid Binding Sequences <sup>d</sup>	Frequency of ligands in Family <sup>e</sup>	Frequency of Ligands / Number of Germlines <sup>f</sup>
VH1	J558	2,348	66.6	52	1.28	422	18.0	0.35
VH2	Q52	237	6.7	9	0.75	96	40.5	4.50
VH3	36-60	148	4.2	6	0.70	19	12.8	2.14
VH4	X-24	32	0.9	1	0.91	0	0.0	0.00
VH5	7183	327	9.3	10	0.93	120	36.7	3.67
VH6	J606	101	2.9	5	0.57	14	13.9	2.77
VH7	S107	170	4.8	3	1.61	45	26.5	8.82
VH8	3609	44	1.2	8	0.16	5	11.4	1.42
VH9	VGAM3-8	66	1.9	4	0.47	6	9.1	2.27
VH10	DNA4	37	1.1	2	0.53	22	59.5	29.73
VH11	CP3	9	0.3	2	0.13	0	0.0	0.00
VH14	SM7	4	0.1	1	0.11	0	0.0	0.00
TOTAL		3,523	100.0	103	0.97	749		

<sup>a</sup>Number of VH sequences in database

<sup>b</sup>Fraction of sequences of each VH Family

<sup>c</sup>as describe for C57/BL6 (Johnston et al., 2006)

<sup>d</sup>Number of sequences described as anti-DNA

<sup>e</sup>Ratio of nucleic acid binding to the total sequence in Family

<sup>f</sup>Ratio of nucleic acid binding in Family to the number of family's germlines