

IGHV4-39

G1	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	C	G	C	A	T	G	A	C
G2	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A/C	G	C	A/G	C/T	G	A	C/G
G3	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A	G	C	G	C	G	A	G
G4	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	C/G/G/G	C	A	T	G	A/C/G/T	C/G	
G5	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	C	G	C	A	T	G	A	C/G
G6	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	C	G	C	A	T	G	C/G/T	C
G7	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A/C/C	G	C	A/A/C	T/T	G	A	C/G/G
G8	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A/A/A/C	C/C/A/G	C/A/G	C/G/T	T	G	A	G
G9	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A/A/C/G/G	C/A/G	C/C/T	G	A	G		
G10	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A/A/C	G	C	A/G/C	T/T	G	A	G
G11	C	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	C	G	C	A	T	G	A	C
G12	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	C	C/G	C	A	T	G	A/G	C/G
G13	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A/C/C	C/G	C	A/A/A/G	T/T	G	A/C/G/G	
G14	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A/C	G	C	A/G	C/T	G	A	G
G15	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A	G	C	G	C/T	G	A	G
G16	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A/C	G	A/C	A/G	C/T	G	A	C/G
G17	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A/C/C/G/G	C	A/A/C	T/T	G	A	C/G/G	
G18	C/T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A	G	C	G	C	G	A/G	G
G19	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A/A/C	G	C/C/A/G	C/C/T	G	A	G	
G20	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A/A/C	G	C	A/G/C	T/T	G	A	C/G/G
G21	T	A	A	T	T	C	C	A	C	A	A	G	A	G	T	T	T	G	T	A/C/C	C/G	C	A/A/A/G	T	G	A/A/C/G/G	
G22	T	A	A	T	T	C	C	A	C	A	A	A/G/G/A	G/A/G/G	C/T/T	A/G/G	T/T	A/G/G	C/T	A/C	C	G	C	A/A/C	G/T	T	A/C/G/G	
	42	47	49	53	55	56	57	61	63	94	97	109	154	155	156	160	163	171	178	216	237	267	270	279	294	297	298

