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| --- | --- | --- |
| **Clone** | **VH** | **VL** |
| **V- seg alignment** | **D-seg****alignment**  | **J- seg** **alignment** | **Name** | **Differences****from germline****(nucleotides,****amino acids)a** | **VHCDR3** | **V- seg alignment** | **J- seg** **alignment** | **Name** | **Differences****from germline****(nucleotides,****amino acids)a** | **VLCDR3** |
| 5-1 | V segment of the Igh-V15 VH15 family  | DFL16.1, DFL16.3, DSP2.1 | JH1B6 mouse, JH1 mouse, JH2 mouse | musIGHV236 | (21, 10) | ARGNWYFDV | V segment of the IGKV1 subgroup | jk2, jk4, jk1 | musIGKV115  | (23, 11) | FQGSHVPFT |
| 7-2 | V segment of the Igh-VSM7 VH14 family | Not found | JH3 mouse, JH1B6 mouse, JH1 mouse | musIGHV247 | (26, 13) | TTFRY | V segment of the IGKV2 subgroup | Jk4, jk2, jk5 | musIGKV097 | (24, 9) | WQGTHFPFT |
| 38-1 | V segment of the Igh-VJ558 VH1 family | IGHD6-2\*02, PseudoD2, IGHD2-14\*01inv | JH1B6 mouse, JH1 mouse, JH2 mouse | musIGHV364 | (16, 12) | ASGSIWYFDV | V segment of the IGKV12/13 subgroup | jk1, jk2, jk4 | musIGKV170 | (22, 11) | QHFWGTPWT |
| 45-3 | V segment of the Igh-VJ558 VH1 family | DSP2.3, DSP2.4, DSP2.5 | JH4 mouse, JH2 mouse, JH1 mouse | musIGHV364 | (19, 9) | ARYDYHAMDY | V segment of the IGKV4/5 subgroup | Jk4, jk2, jk5 | musIGKV072 | (25, 10) | QQWSSYPFT  |
| 51-2 | V segment of the Igh-V15 VH15 family | DFL16.1, DFL16.3, DSP2.1 | JH1B6 mouse, JH1 mouse, JH2 mouse | musIGHV236 | (21, 10) | ARGNWYFDV | V segment of the IGKV21 subgroup |  jk1, jk2, jk4 | musIGKV208 | (15, 8) | QQGNEDPRT |
| 63-1 | V segment of the Igh-VJ558 VH1 family | DSP2.1, DSP2.5, DSP2.7 | JH4 mouse, JH2 mouse, JH1 mouse | musIGHV287 | (9, 4) | ARTGNYVDYGMDY | V segment of the IGKV2 subgroup | jk1, jk2, jk4 | musIGKV097 | (22, 9) | WQGTHFPQT  |