











## IGHV4-59\*01 IGHV5-51\*01 277 sequences assigned 260 (93.9%) exact matches, in which: 260 unions 114 sequences assigned 100 (87.7%) exact matches, in which: 100 unique CDR3 6 unique J 6 unique J 100 -200 75 Count 50 100 25 0 0 0 5 10 **Nucleotide Difference Nucleotide Difference** IGHV4-59\*08 IGHV6-1\*01 57 sequences assigned 51 (89.5%) exact matches, in which: 51 unique CDR3 5 unique J 102 sequences assigned 92 (90.2%) exact matches, in which: 92 unique CDR3 6 unique J 50 75 40 Count Count 50 20 25 10 0 0 10 0 10 15 **Nucleotide Difference Nucleotide Difference** IGHV7-4-1\*01 IGHV5-10-1\*03 5 sequences assigned 5 (100%) exact matches, in which: 5 unique CDR3 95 sequences assigned 91 (95.8%) exact matches, in which: 90 unique CDR3 3 unique J 5 unique J 75 Count 2 Count 50 2 25 0 0 8 -0.250.00 0.25 0.50 -0.50Nucleotide Difference **Nucleotide Difference**



