











IGHV6-1*01 IGHV4-59*01 229 sequences assigned 200 (87.3%) exact matches, in which: 181 unique CDR3 1927 sequences assigned 1366 (70.9%) exact matches, in which: 1211 unique CDR3 5 unique J 6 unique J 200 -150 1000 Count 100 500 50 0 0 5 0 10 15 2 6 **Nucleotide Difference Nucleotide Difference** IGHV7-4-1*01 IGHV4-61*01 6 sequences assigned 5 (83.3%) exact matches, in which: 5 unique CDR3 489 sequences assigned 395 (80.8%) exact matches, in which: 382 unique CDR3 3 unique J 6 unique J 5 400 -4 300 Count 2 Count 200 2 100 0 0 3 6 0 12 -0.50.0 0.5 1.0 1.5 **Nucleotide Difference Nucleotide Difference**

IGHV5-51*01

1590 sequences assigned 1166 (73.3%) exact matches, in which: 1053 unique CDR3





