















## IGHV4-59\*01 IGHV5-51\*01 256 sequences assigned 514 sequences assigned 192 (75%) exact matches, in which: 192 unique CDR3 422 (82.1%) exact matches, in which: 422 unique CDR3 5 unique J 6 unique J 200 400 150 300 Count 100 200 50 100 0 0 10 15 20 15 5 5 10 **Nucleotide Difference** Nucleotide Difference IGHV6-1\*01 IGHV4-59\*08 85 sequences assigned 73 (85.9%) exact matches, in which: 73 unique CDR3 201 sequences assigned 156 (77.6%) exact matches, in which: 156 unique CDR3 6 unique J 6 unique J 150 60 100 Count 40 50 20 0 0 5 10 15 0.0 2.5 5.0 7.5 10.0 **Nucleotide Difference** Nucleotide Difference IGHV7-4-1\*01 IGHV5-10-1\*01 5 sequences assigned 5 (100%) exact matches, in which: 5 unique CDR3 196 sequences assigned 169 (86.2%) exact matches, in which: 169 unique CDR3 3 unique J 6 unique J 5 150 4 Count 2 100 Count 2 50 1 0 0 2.5 5.0 7.5 0.0 -0.250.00 0.25 0.50 -0.50**Nucleotide Difference Nucleotide Difference**







