





IGHV3-20*01_02 IGHV3-13*01 IGHV3-21*01_02 2490 sequences assigned 624 sequences assigned 19263 sequences assigned 6502 (33.8%) exact matches, in which: 193 (30.9%) exact matches, in which: 859 (34.5%) exact matches, in which: 679 unique CDR3 151 unique CDR3 5157 unique CDR3 6 unique J 5 unique J 6 unique J 200 6000 750 150 4000 500 Count Count 100 2000 250 50 0 0 0 10 15 10 15 20 5 10 15 20 0 5 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-20*03_04 IGHV3-15*01_02 IGHV3-22*01_02 245 sequences assigned 9 (3.7%) exact matches, in which: 4674 sequences assigned 1479 (31.6%) exact matches, in which: 1 sequences assigned 8 unique CDR3 No exact matches. 1212 unique CDR3 5 unique J 6 unique J 1.00 1500 0.75 20 1000 Count 0.50 10 500 0.25 0.00 0 9.25 9.50 8.50 8.75 9.00 0 10 20 10 15 0 5 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-19*01 IGHV3-21*04 IGHV3-23*01_04 25 sequences assigned 8 (32%) exact matches, in which: 2794 sequences assigned 40178 sequences assigned 9587 (23.9%) exact matches, in which: 193 (6.9%) exact matches, in which: 8 unique CDR3 190 unique CDR3 3 unique J 7235 unique CDR3 6 unique J 6 unique J 10000 300 6 7500 Count 200 5000 2500 100 2 0 0 0 10 15 5 10 15 20 0 5 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference

















