IGHV1-2*02 IGHV1-8*01 IGHV1-18*04 16179 sequences assigned 3919 (24.2%) exact matches, in which: 25755 sequences assigned 4255 (16.5%) exact matches, in which: 9803 sequences assigned 3102 (31.6%) exact matches, in which: 3743 unique CDR3 2778 unique CDR3 3531 unique CDR3 6 unique J 6 unique J 6 unique J 4000 3000 4000 3000 3000 2000 Count Count 2000 2000 1000 1000 1000 0 0 0 0 10 15 20 0 10 15 20 0 10 15 Nucleotide Difference **Nucleotide Difference Nucleotide Difference** IGHV1-8*02 IGHV1-24*01 IGHV1-2*04 3182 sequences assigned 22 (0.7%) exact matches, in which: 2520 sequences assigned 6194 sequences assigned 1972 (31.8%) exact matches, in which: 795 (31.5%) exact matches, in which: 22 unique CDR3 688 unique CDR3 1778 unique CDR3 5 unique J 6 unique J 6 unique J 800 -2000 600 600 1500 Count Count 400 1000 400 200 500 200 0 0 10 15 20 0 10 15 20 10 20 0 5 0 5 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-45*02 IGHV1-3*01_05 IGHV1-18*01 98 sequences assigned 19413 sequences assigned 4605 (23.7%) exact matches, in which: 4949 sequences assigned 1291 (26.1%) exact matches, in which: 16 (16.3%) exact matches, in which: 14 unique CDR3 1141 unique CDR3 4122 unique CDR3 4 unique J 6 unique J 6 unique J 15 4000 1000 3000 Count Count 2000 500 5 1000 0 0 0 10 15 20 10 15 20 0 5 10 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference























