## IGHV1S10\*01\_G167T\_A<sup>2</sup> IGHV3S11\*01\_C78T\_A11 IGHV3S22\*01\_G24A\_C6 271 sequences assigned 67 (24.7%) exact matches, in which: 1663 sequences assigned 84 (5.1%) exact matches, in which: 71 unique CDR3 2310 sequences assigned 344 (14.9%) exact matches, in which: 294 unique CDR3 56 unique CDR3 6 unique J 6 unique J 6 unique J 500 100 400 75 100 300 Count Count 50 200 50 25 100 0 0 10 15 10 15 20 5 10 15 20 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1S2\*01\_C123G IGHV3S32\*01\_C114T\_T1 IGHV3S15\*01 538 sequences assigned 3184 sequences assigned 460 (14.4%) exact matches, in which: 626 sequences assigned 21 (3.9%) exact matches, in which: 18 unique CDR3 No exact matches. 389 unique CDR3 6 unique J 6 unique J 25 20 60 600 15 Count Count 40 400 10 200 20 5 0 0 17.5 20.0 12.5 15.0 10.0 20 0 10 15 10 15 0 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV2S2\*01\_C6G\_G115 IGHV3S22\*01\_C61G\_A12 IGHV3S41\*01 3604 sequences assigned 1444 sequences assigned 48 sequences assigned 8 (0.2%) exact matches, in which: 60 (4.2%) exact matches, in which: No exact matches. 8 unique CDR3 52 unique CDR3 4 unique J 5 unique J 1.00 300 150 0.75 200 Count 100 Count 0.50 100 50 0.25 0.00 0 0 18.25 18.50 17.50 17.75 18.00 10 15 20 5 10 15 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**

## IGHV3S45\*01\_A122G\_T IGHV4S11\*01\_T90C\_C13 IGHV3S5\*01\_T19A\_G11 2511 sequences assigned 303 (12.1%) exact matches, in which: 1381 sequences assigned 197 (14.3%) exact matches, in which: 179 unique CDR3 10191 sequences assigned 191 (1.9%) exact matches, in which: 165 unique CDR3 243 unique CDR3 6 unique J 6 unique J 6 unique J 600 1500 200 400 Count Count 1000 100 200 500 0 0 10 15 20 5 10 15 10 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3S7\*01 IGHV3S45\*01\_G26C\_G1 IGHV4S12\*01\_G34C\_C9 3781 sequences assigned 482 (12.7%) exact matches, in which: 15 sequences assigned 4660 sequences assigned 148 (3.2%) exact matches, in which: No exact matches. 406 unique CDR3 132 unique CDR3 6 unique J 6 unique J 5 500 800 -4 400 600 300 Count OOP 200 200 1 100 0 0 15 20 10 20 0 5 10 13 15 17 0 5 15 11 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV4S14\*01\_A116G\_C1 IGHV4S11\*01\_T90C\_C13 IGHV3S46\*01 227 sequences assigned 1778 sequences assigned 958 sequences assigned 43 (18.9%) exact matches, in which: 73 (4.1%) exact matches, in which: No exact matches. 41 unique CDR3 65 unique CDR3 6 unique J 6 unique J 200 100 150 30 Count 100 20 50 50 10 0 0 20 10 15 5 20 5 10 15 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference







