









IGHV5-51*01_03 IGHV4-39*07 701 sequences assigned 614 (87.6%) exact matches, in which: 169 sequences assigned 149 (88.2%) exact matches, in which: 600 unique CDR3 148 unique CDR3 6 unique J 5 unique J 150 -600 100 400 Count 200 50 0 0 **Nucleotide Difference Nucleotide Difference** IGHV6-1*01_02 IGHV4-59*01_07 98 sequences assigned 83 (84.7%) exact matches, in which: 524 sequences assigned 485 (92.6%) exact matches, in which: 83 unique CDR3 470 unique CDR3 6 unique J 6 unique J 500 -80 400 60 300 Count 300 40 20 100 0 0 2 3 0 3 **Nucleotide Difference Nucleotide Difference** IGHV7-4-1*02 IGHV4-61*01 79 sequences assigned 221 sequences assigned 74 (93.7%) exact matches, in which: 199 (90%) exact matches, in which: 73 unique CDR3 196 unique CDR3 5 unique J 6 unique J 200 60 150 Count 40 20 50 0 0 2.5 5.0 7.5 10.0 0.0 0.5 -0.50.0 1.0 1.5 **Nucleotide Difference** Nucleotide Difference



Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Warning – no inferred sequences found. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59*02 G88A IGHV5-51*07 A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Warning - no inferred sequences found. Novel sequence(s) IGHV1-69*04_09_G112A IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Warning - no inferred sequences found. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4–59*02_G88A are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59*02_G88A are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored Warning – no inferred sequences found. Warning - no inferred sequences found. Warning – no inferred sequences found. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Warning – no inferred sequences found. Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Warning - no inferred sequences found. Novel sequence(s) IGHV4-39*02_C258G IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Warning - no inferred sequences found. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4–59*02_G88A IGHV5–51*07_A128G are not listed in the genotype and will be ignored. Warning - no inferred sequences found. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Warning – no inferred sequences found. Novel sequence(s) IGHV3-11*06_T300C are not listed in the genotype and will be ignored. Warning – no inferred sequences found. Warning – no inferred sequences found. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Warning – no inferred sequences found. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Warning – no inferred sequences found. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59*02 G88A IGHV5-51*07 A128G are not listed in the genotype and will be ignored.