

















## IGHV6-1\*01\_02 IGHV4-61\*08 591 sequences assigned 106 (17.9%) exact matches, in which: 100 unique CDR3 235 sequences assigned No exact matches. 5 unique J 150 40 Count 100 20 50 0 5 10 15 20 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference** IGHV7-4-1\*01 IGHV5-10-1\*01\_03 51 sequences assigned 20 (39.2%) exact matches, in which: 19 unique CDR3 1184 sequences assigned 466 (39.4%) exact matches, in which: 324 unique CDR3 3 unique J 6 unique J 20 400 15 300 Count 10 5 100 0 0 5 10 15 20 0 0 8 **Nucleotide Difference** Nucleotide Difference IGHV7-4-1\*02 IGHV5-51\*01\_03 5798 sequences assigned 898 (15.5%) exact matches, in which: 564 unique CDR3 4 sequences assigned 1 (25%) exact matches, in which: unique CDR3 1 unique J 6 unique J 1.00 1200 0.75 800 Count Count 0.50 400 0.25 0 0.00 0 10 15 20 10 20 15 5 **Nucleotide Difference** Nucleotide Difference



Novel sequence(s) IGHV3-30\*03\_T288C 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) IGHV1-69\*04\_09\_G112A IGHV4-59\*02\_G88A IGHV5-10-1\*01\_03\_T258C IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s) IGHV1-69\*08\_C191T IGHV3-48\*03\_T303G 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.

Novel sequence(s) IGHV3-30\*03\_T288C IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning: IGHV4-31\*02, IGHV4-31\*03\_04 have identical germline sequences.

Novel sequence(s) IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV1-69\*04\_09\_G112A 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\*08\_C191T IGHV3-30\*03\_T288C IGHV3-30-3\*02\_G75C 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.

Novel sequence(s) IGHV4-4\*02\_03\_C300T 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) IGHV4–59\*02\_G88A are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV1-69\*08\_C191T IGHV3-11\*06\_T300C IGHV3-30\*03\_T288C IGHV4-59\*02\_G88A IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.