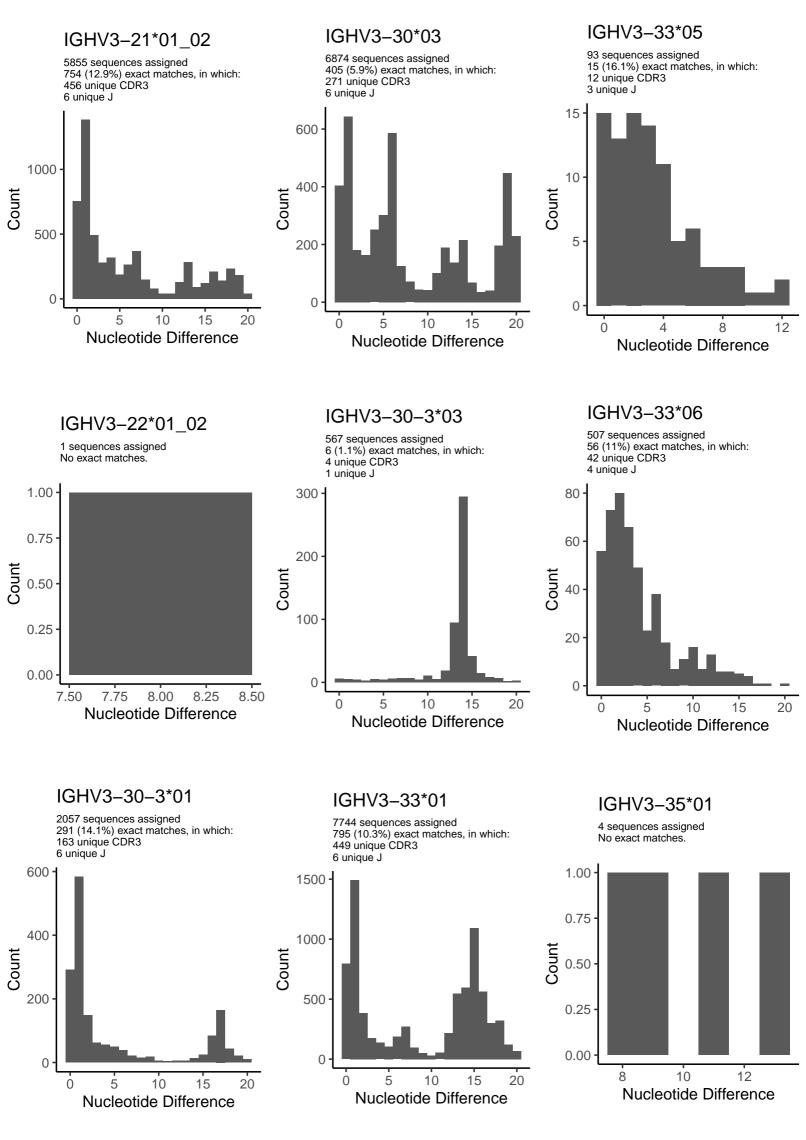
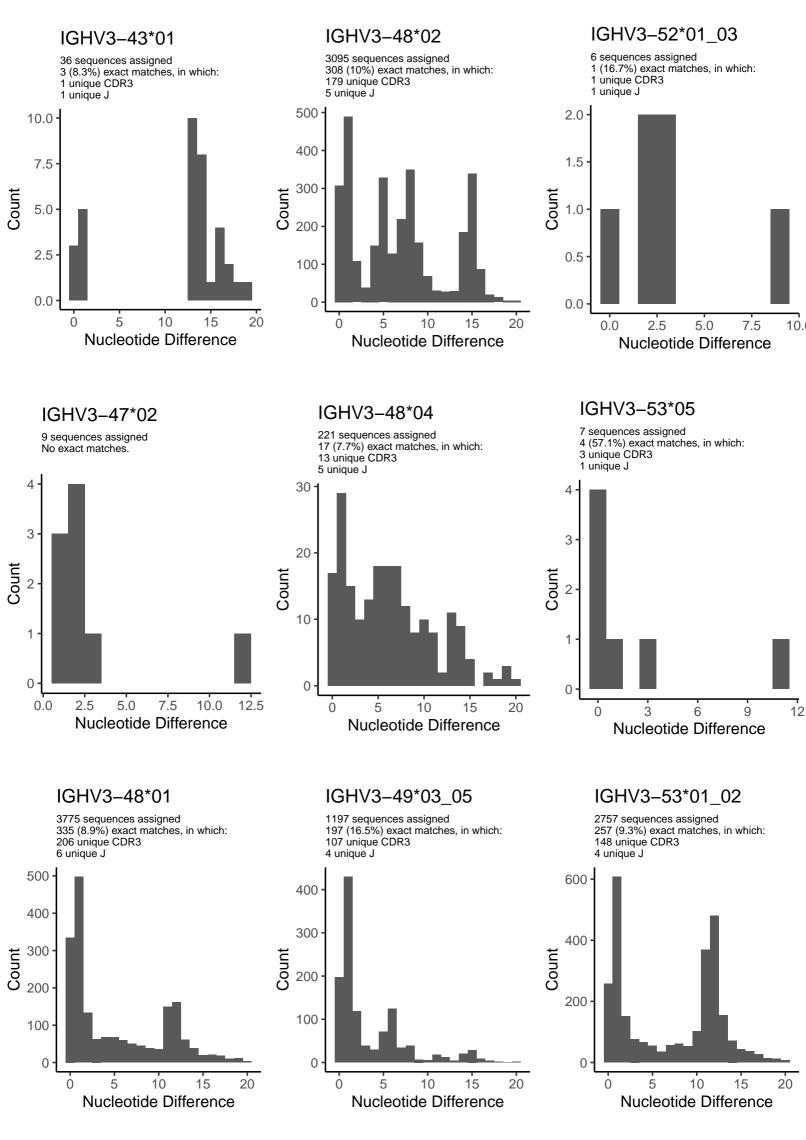
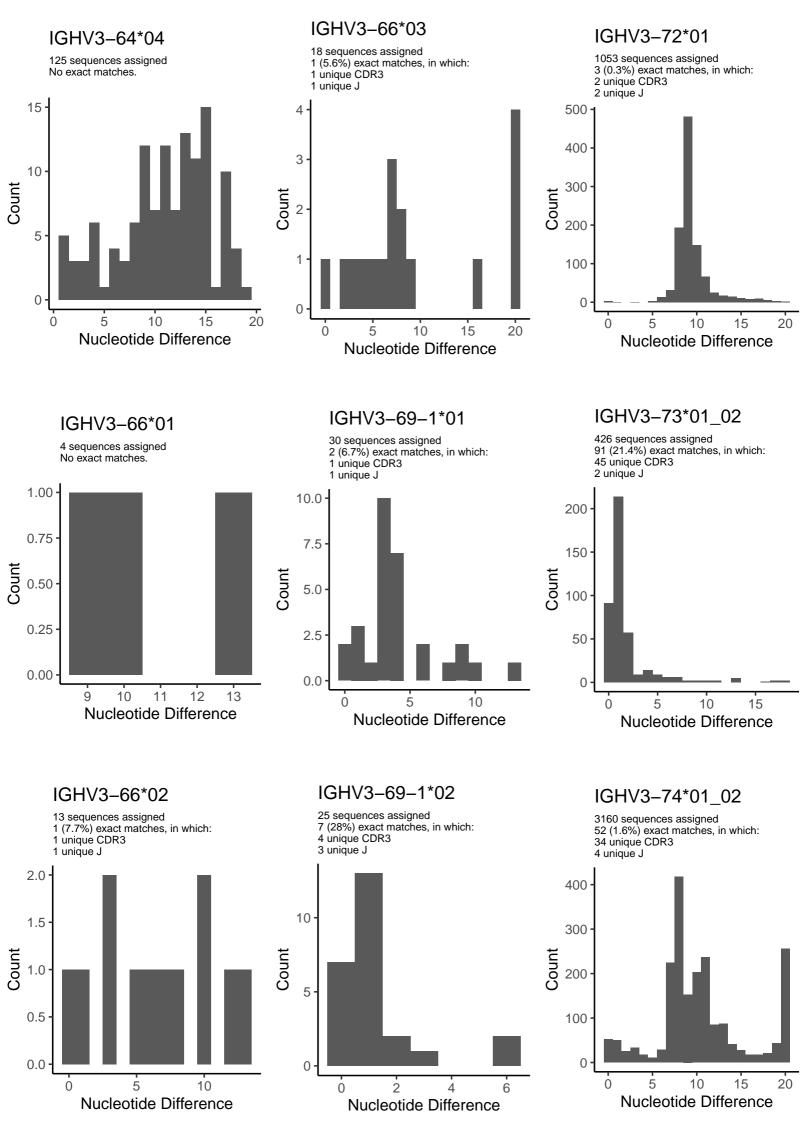
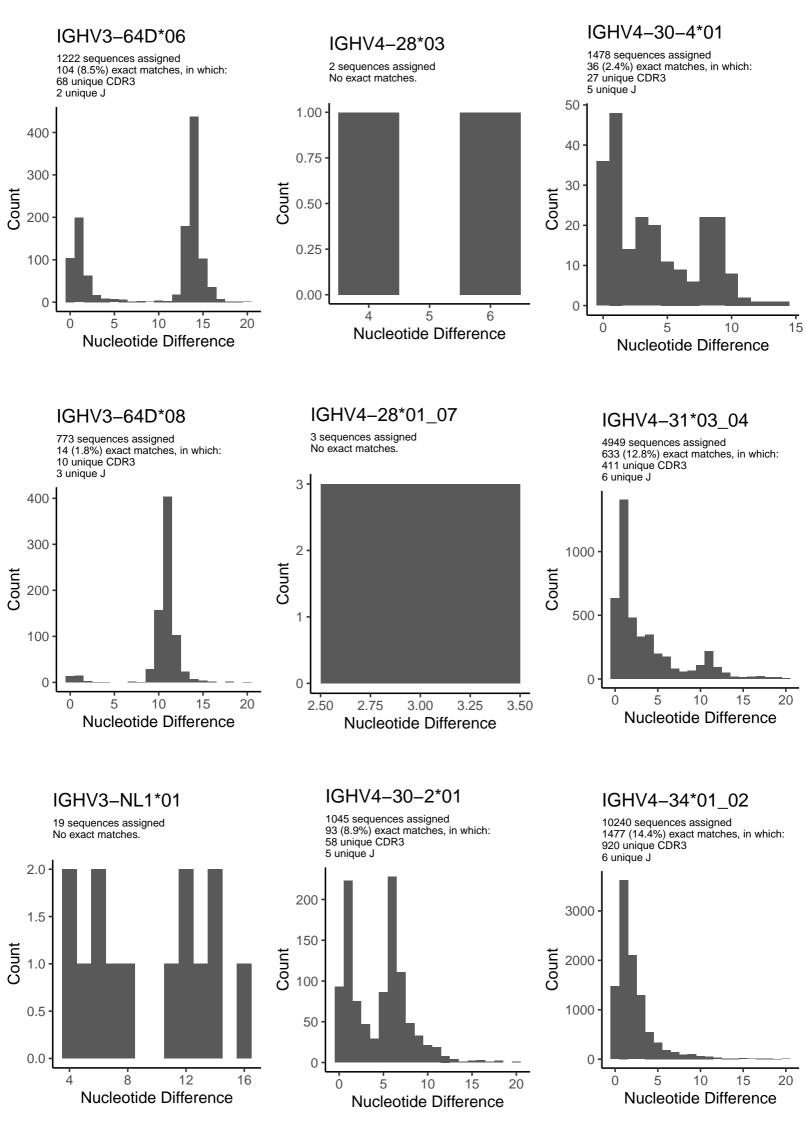


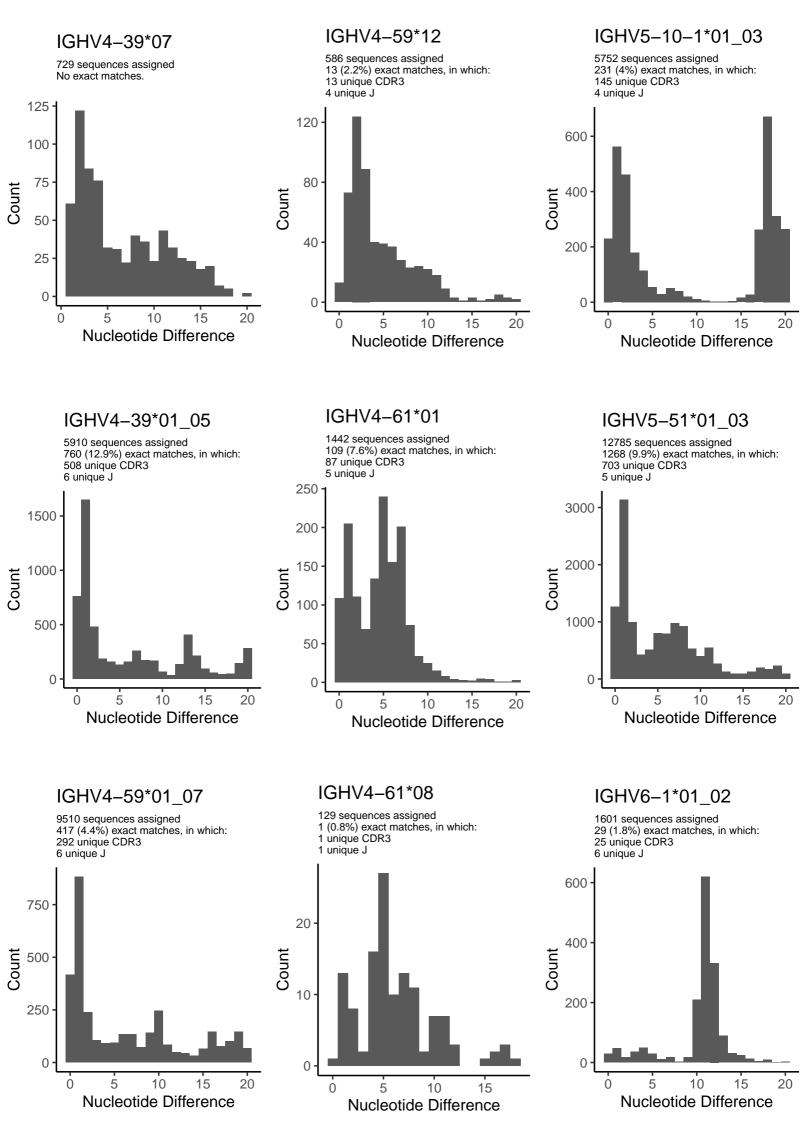
## IGHV3-15\*01\_02 IGHV3-7\*01 IGHV3-11\*06 6201 sequences assigned 775 sequences assigned 3718 sequences assigned 35 (4.5%) exact matches, in which: 304 (8.2%) exact matches, in which: 156 (2.5%) exact matches, in which: 198 ùniqué CDR3 31 unique CDR3 90 unique CDR3 4 unique J 5 unique J 4 unique J 500 200 900 400 150 300 Count Count 600 100 200 300 50 100 0 0 0 10 15 20 5 10 15 20 5 10 15 20 5 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-19\*01 IGHV3-11\*03 05 IGHV3-7\*03 14 sequences assigned 8 (57.1%) exact matches, in which: 8 unique CDR3 120 sequences assigned 11 (9.2%) exact matches, in which: 5013 sequences assigned 430 (8.6%) exact matches, in which: 9 unique CDR3 236 unique CDR3 3 unique J 4 unique J 5 unique J 900 20 6 Count Count Count 600 10 300 2 0 0 0 10 15 20 0 5 10 15 0 20 0 6 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV3-13\*05 IGHV3-21\*04 IGHV3-7\*05 117 sequences assigned 296 sequences assigned 1799 sequences assigned 10 (8.5%) exact matches, in which: 40 (13.5%) exact matches, in which: 16 (0.9%) exact matches, in which: 9 unique CDR3 29 unique CDR3 14 unique CDR3 3 unique J 4 unique J 3 unique J 500 -40 400 30 300 Count Count 20 200 20 10 100 0 0 0 10 15 20 5 10 15 20 5 10 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference





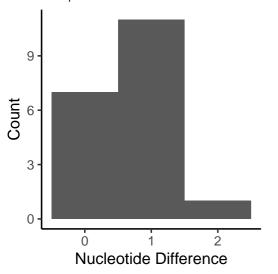






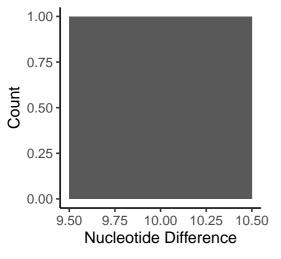
## IGHV7-4-1\*01

19 sequences assigned 7 (36.8%) exact matches, in which: 6 unique CDR3 1 unique J



## IGHV7-4-1\*02

1 sequences assigned No exact matches.





Novel sequence(s) IGHV3-30-3\*01\_T288C IGHV4-59\*02\_G88A IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV3-30\*03\_T288C 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) 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) IGHV3-33\*01\_G75C IGHV4-59\*02\_G88A IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV3-33\*01\_G75C IGHV4-59\*02\_G88A IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

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.