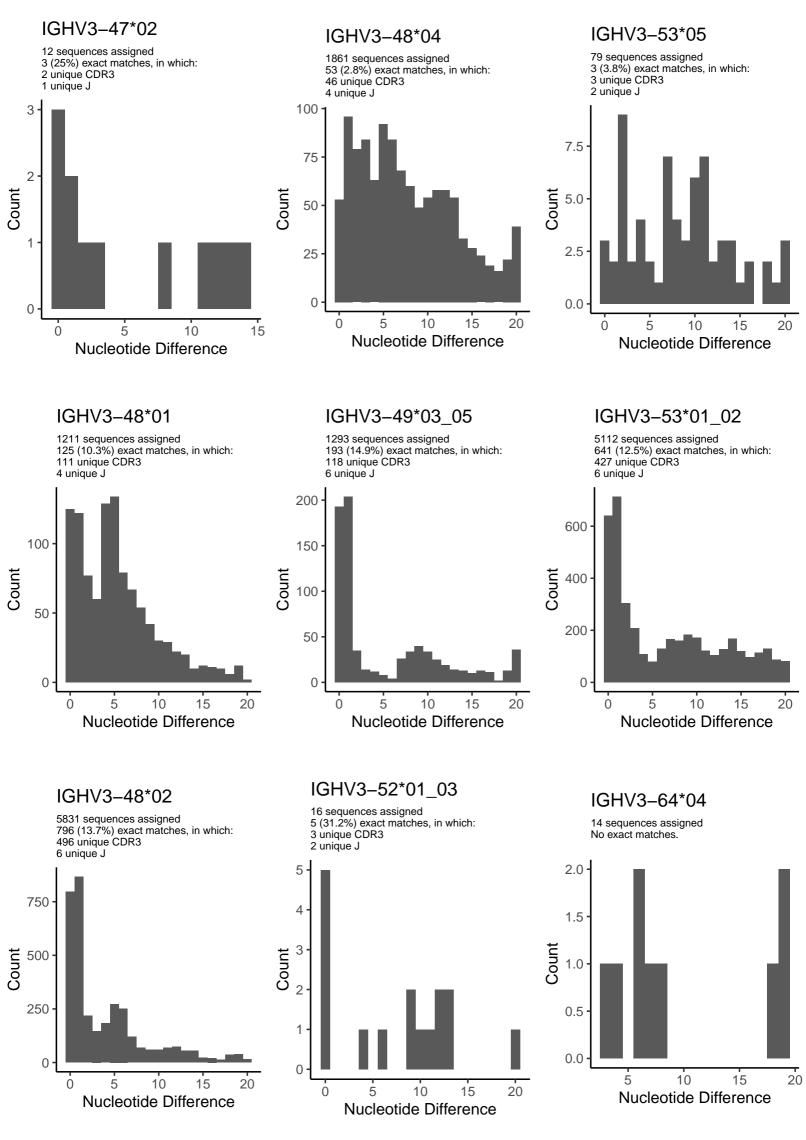
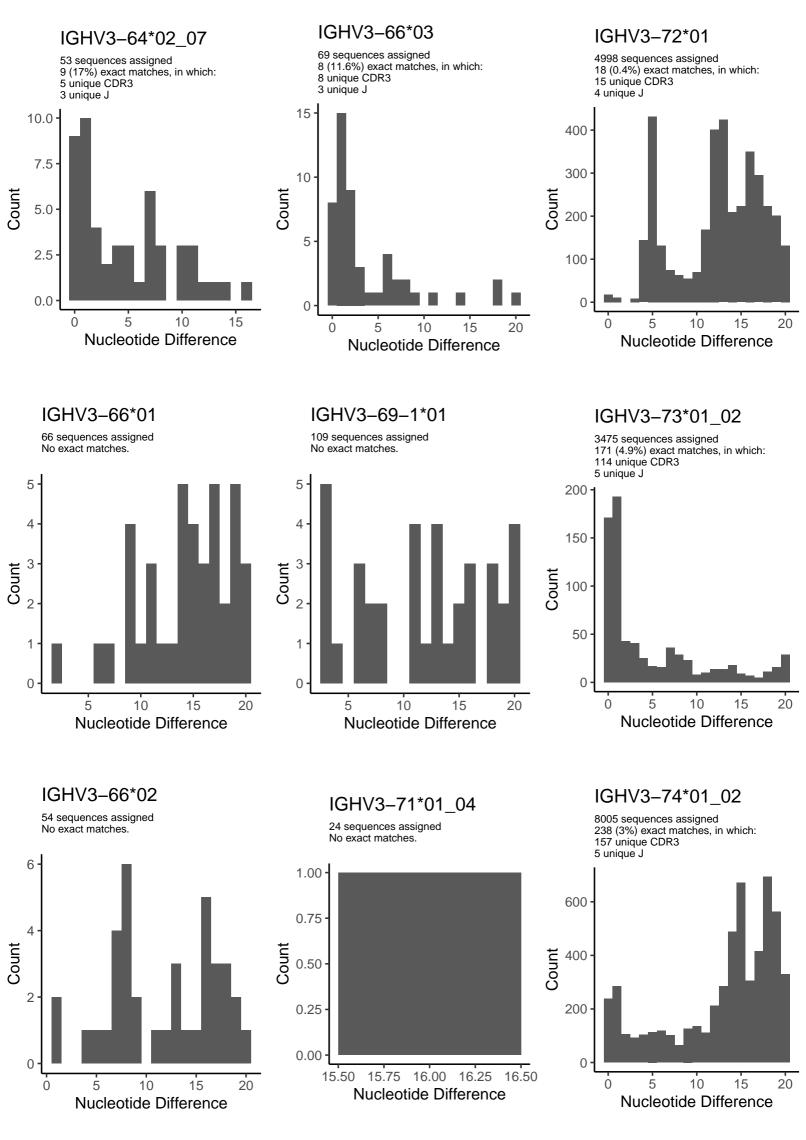
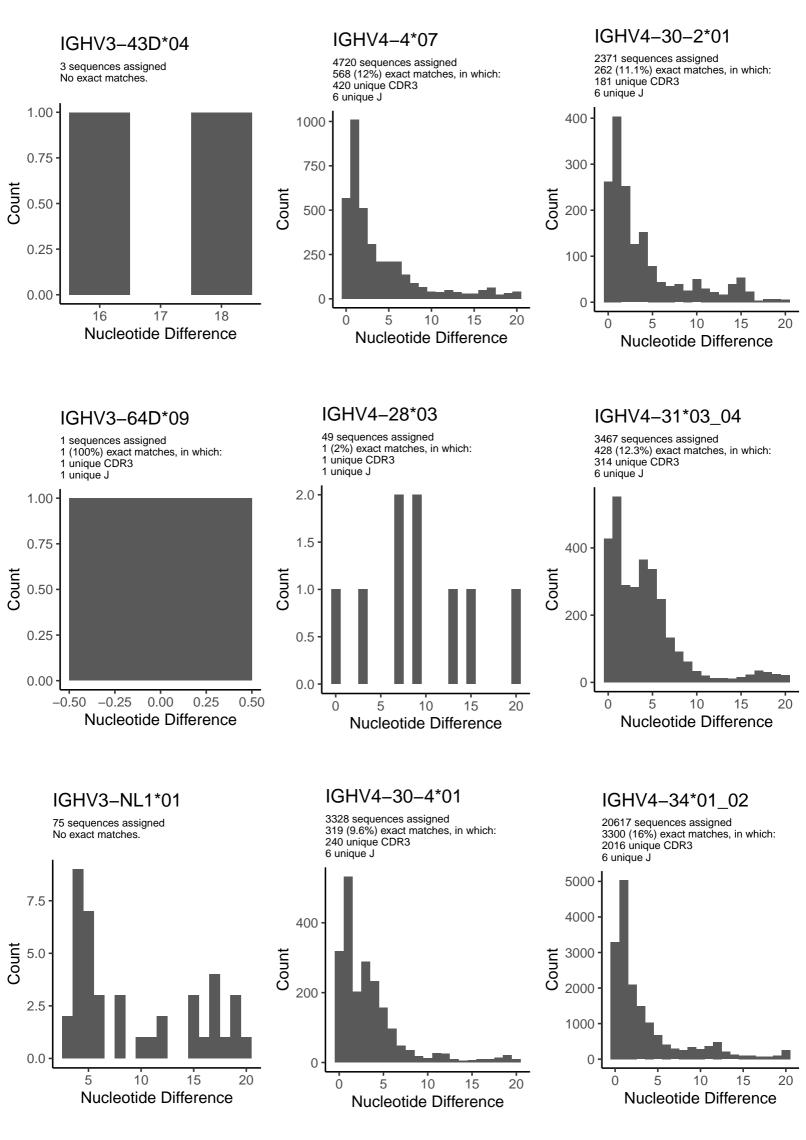
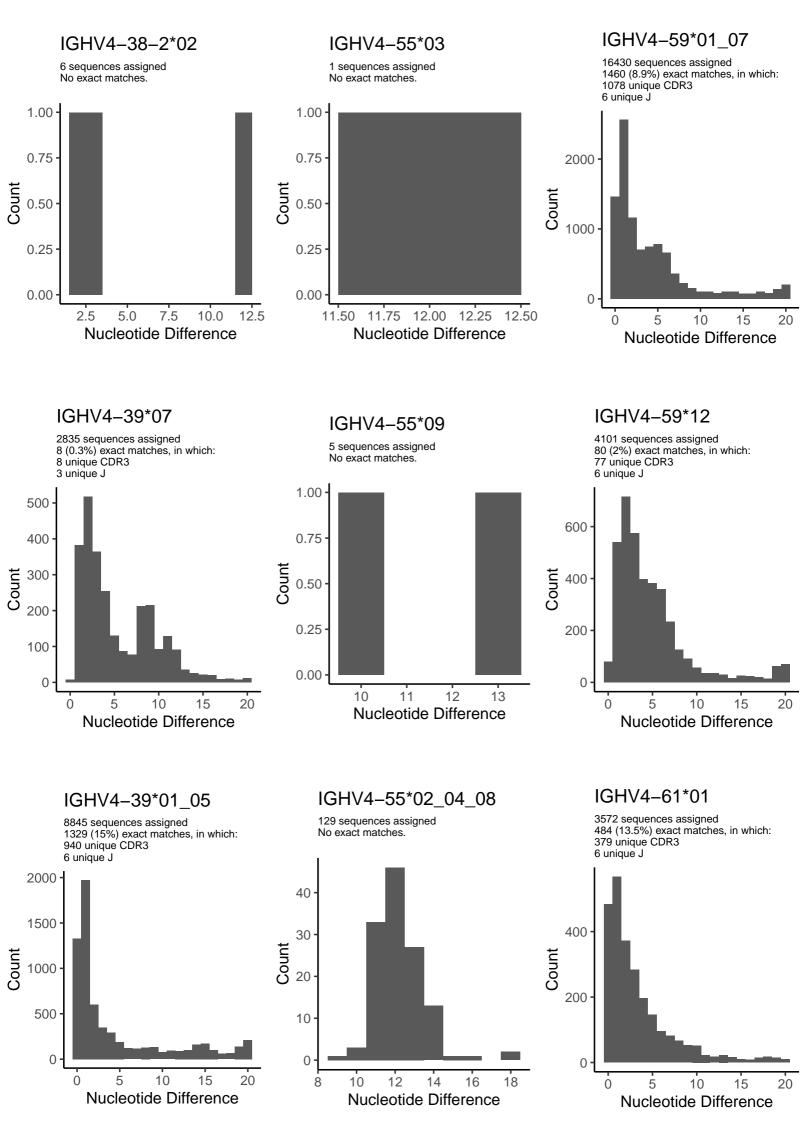


## IGHV3-21\*04 IGHV3-30\*03 IGHV3-33\*06 1296 sequences assigned 2467 sequences assigned 1144 sequences assigned 70 (5.4%) exact matches, in which: 63 unique CDR3 82 (7.2%) exact matches, in which: 73 unique CDR3 325 (13.2%) exact matches, in which: 265 unique CDR3 6 unique J 6 unique J 5 unique J 200 150 300 150 100 200 Count Count Count 100 50 100 50 0 0 0 5 10 15 20 5 10 15 20 10 15 20 0 0 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-35\*01 IGHV3-21\*01\_02 IGHV3-33\*01 13 sequences assigned 5 (38.5%) exact matches, in which: 5 unique CDR3 10573 sequences assigned 1732 (16.4%) exact matches, in which: 11274 sequences assigned 1235 (11%) exact matches, in which: 1083 unique CDR3 760 unique CDR3 2 unique J 6 unique J 6 unique J 1500 1000 3 Count Count 1000 2 500 500 0 0 0 0 10 20 0 10 20 10 0 5 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV3-43\*01 IGHV3-33\*05 IGHV3-30-3\*01 655 sequences assigned 387 sequences assigned 6966 sequences assigned 1214 (17.4%) exact matches, in which: 30 (4.6%) exact matches, in which: 68 (17.6%) exact matches, in which: 28 unique CDR3 39 unique CDR3 792 unique CDR3 3 unique J 5 unique J 6 unique J 30 1000 20 Count Count Count 50 500 10 25 0 0 0 10 0 15 20 0 10 15 20 0 10 15 20 5 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference









## IGHV6-1\*01\_02 IGHV4-61\*08 2644 sequences assigned 129 (4.9%) exact matches, in which: 100 unique CDR3 1065 sequences assigned No exact matches. 6 unique J 150 500 -400 100 Count 300 Count 200 50 100 0 5 10 15 20 0 10 15 20 **Nucleotide Difference Nucleotide Difference** IGHV5-10-1\*01\_03 IGHV7-4-1\*02 5 sequences assigned 3663 sequences assigned 487 (13.3%) exact matches, in which: 2 (40%) exact matches, in which: 2 unique CDR3 355 unique CDR3 1 unique J 6 unique J 2.0 600 1.5 Count Count 400 1.0 200 0.5 0 0.0 10 15 20 10 15 0 5 0 **Nucleotide Difference Nucleotide Difference** IGHV7-81\*01 IGHV5-51\*01\_03 12363 sequences assigned 1468 (11.9%) exact matches, in which: 3 sequences assigned 1 (33.3%) exact matches, in which: 1 unique CDR3 734 unique ĆDR3 1 unique J 6 unique J 1.00 2000 0.75 Count 1000 Count Count 0.25 0.00 10 15 20 2.5 5.0 7.5 0.0 **Nucleotide Difference Nucleotide Difference**



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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.

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.