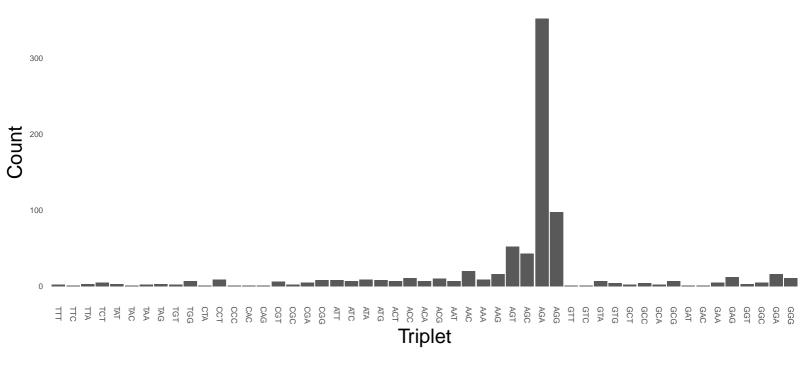
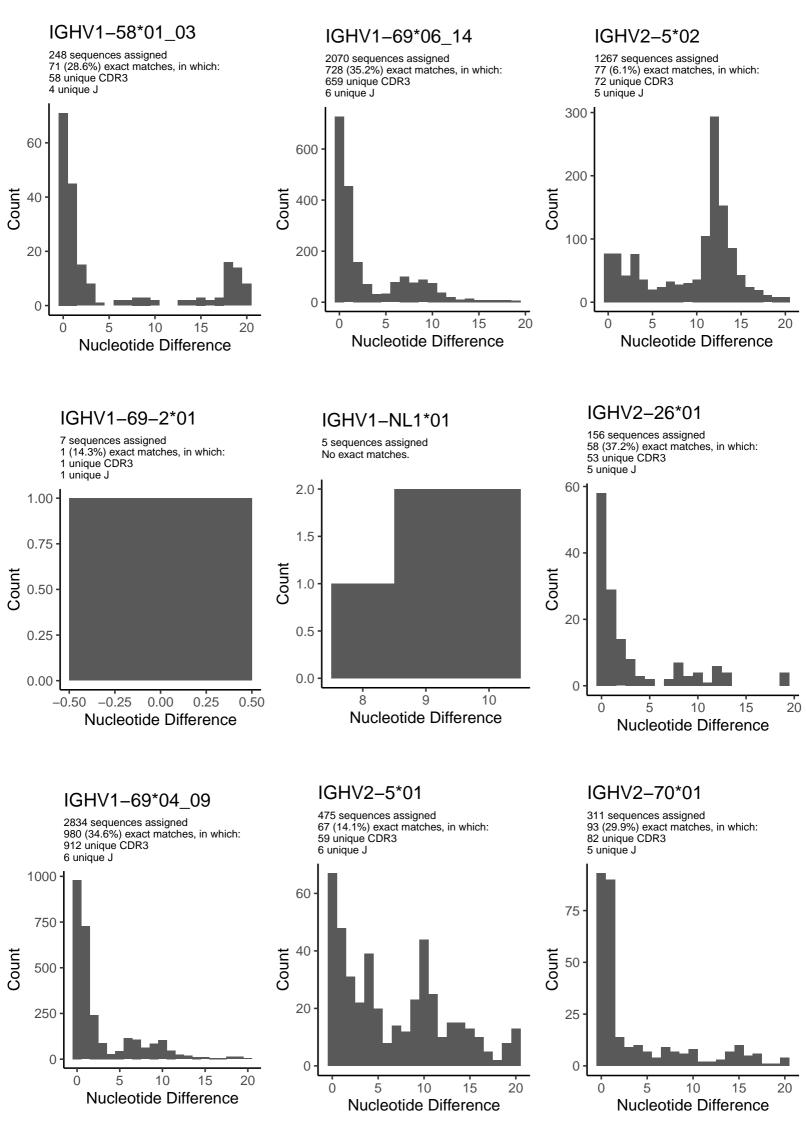


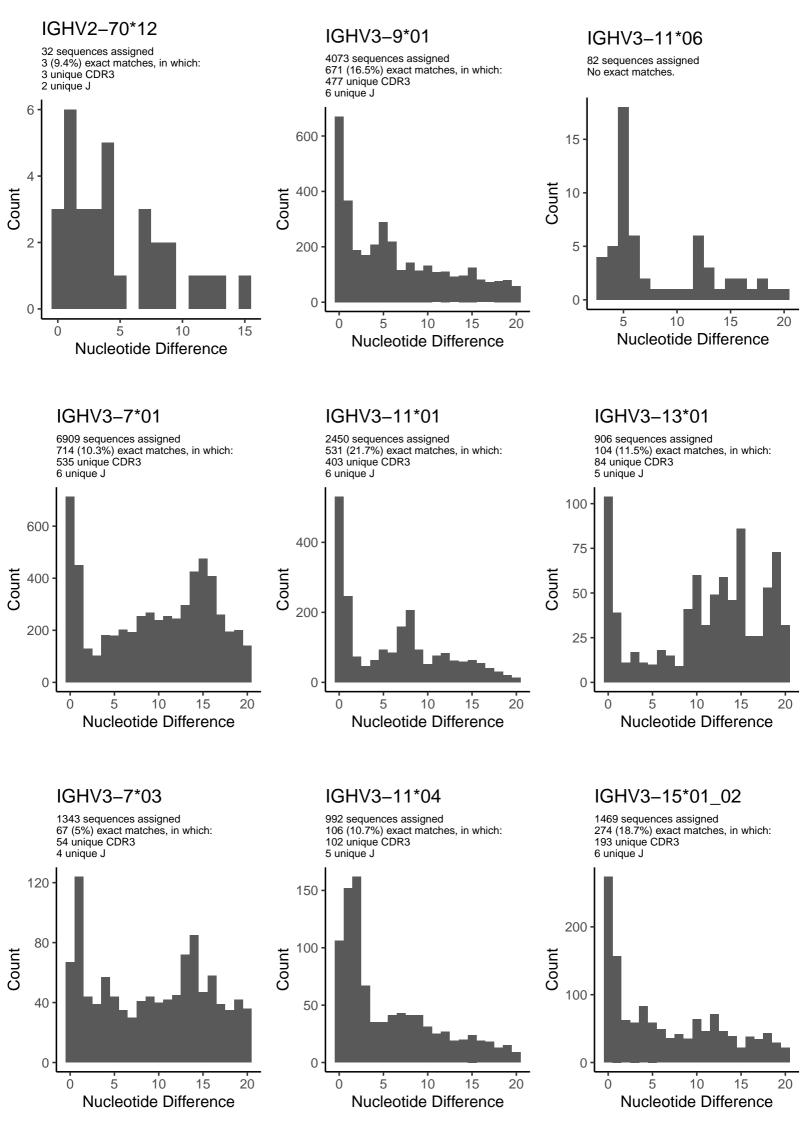


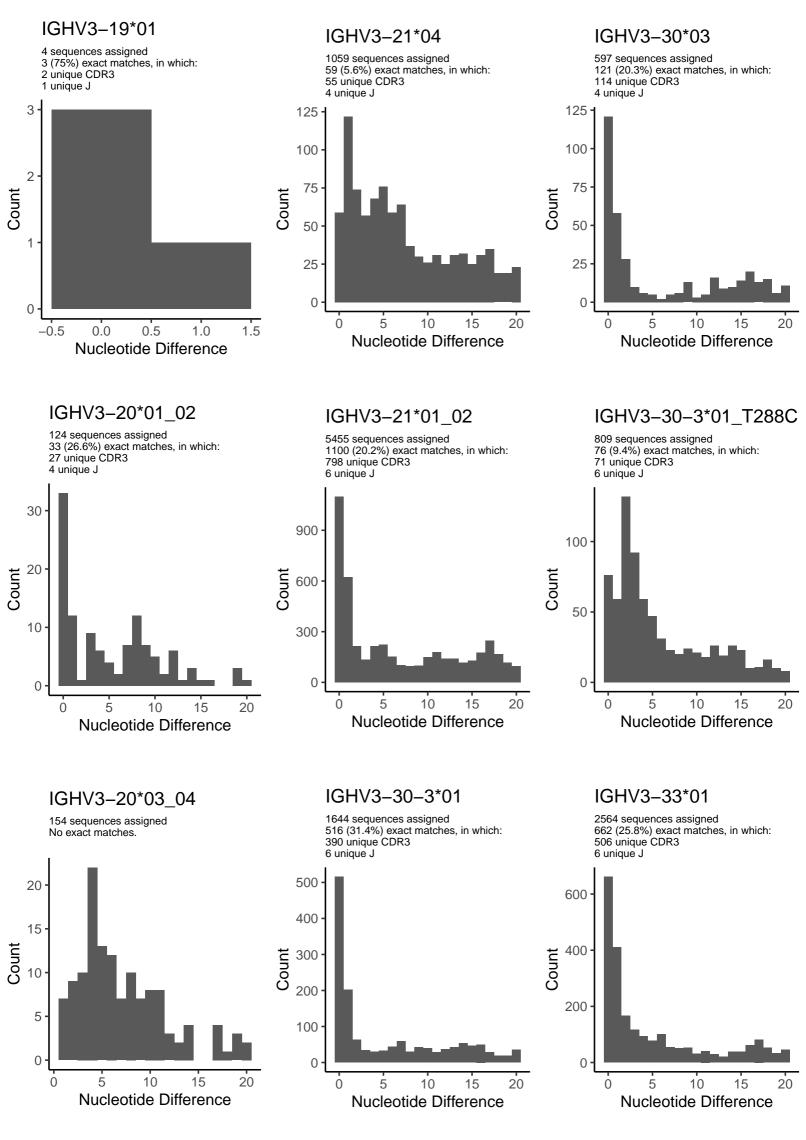
IGHV3-30-3\*01\_T288C- Final 3 nucleotides as a triplet

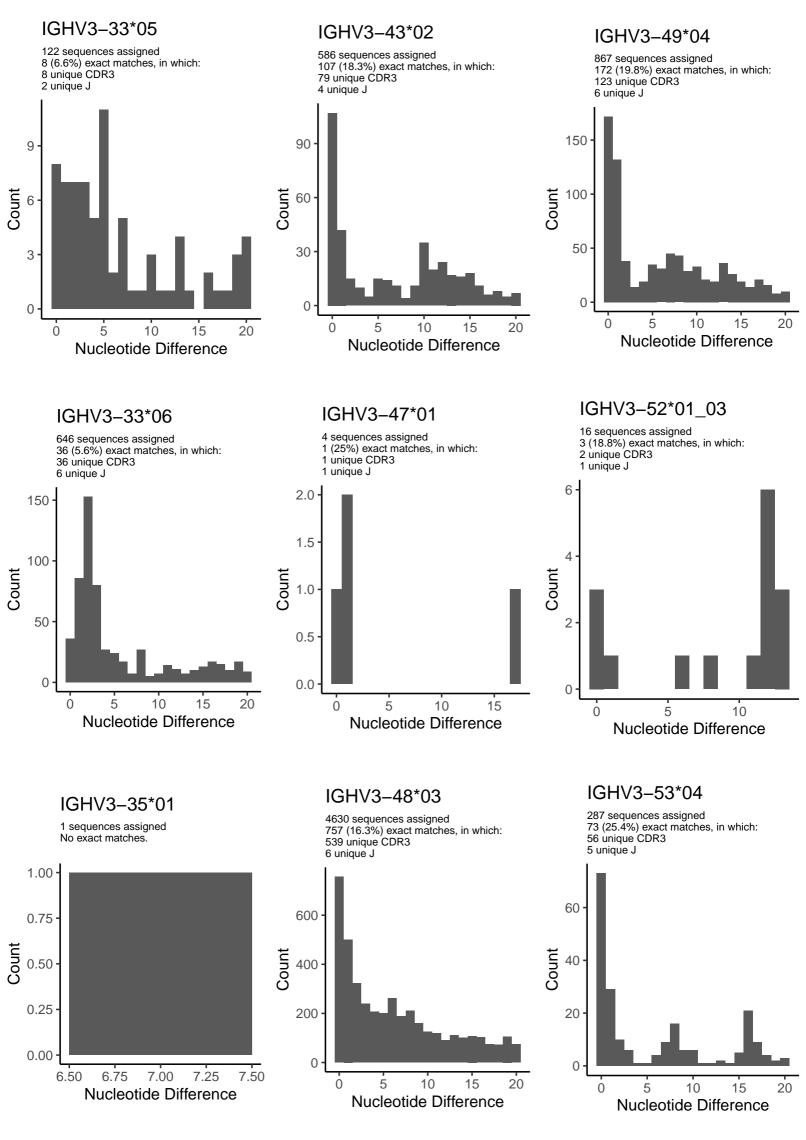


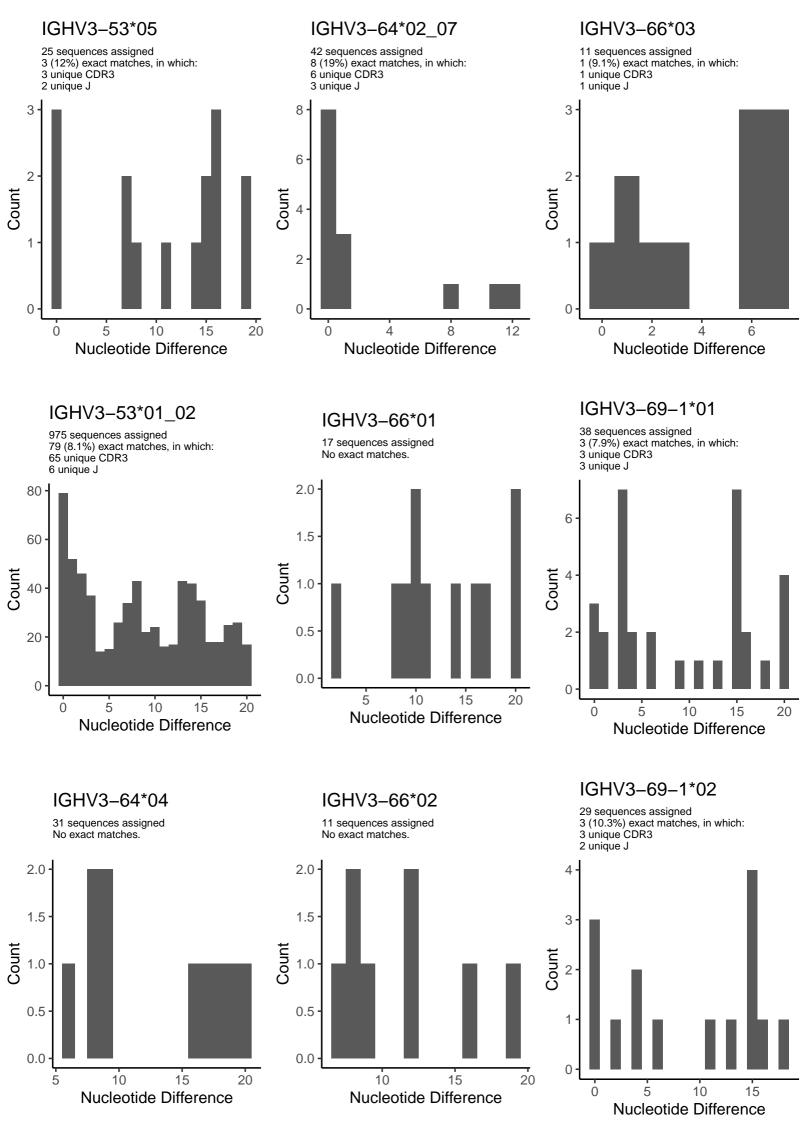
## IGHV1-2\*02 IGHV1-8\*01 IGHV1-24\*01 5476 sequences assigned 728 (13.3%) exact matches, in which: 3202 sequences assigned 939 (29.3%) exact matches, in which: 558 sequences assigned 177 (31.7%) exact matches, in which: 167 unique CDR3 865 unique CDR3 672 unique CDR3 6 unique J 6 unique J 6 unique J 150 600 750 Count Count 100 500 200 50 250 0 0 0 20 5 10 15 20 5 10 15 20 5 10 15 0 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-2\*04 IGHV1-8\*02 IGHV1-46\*01 725 sequences assigned 264 (36.4%) exact matches, in which: 2318 sequences assigned 635 sequences assigned 7 (1.1%) exact matches, in which: 522 (22.5%) exact matches, in which: 488 unique CDR3 242 unique CDR3 7 unique CDR3 6 unique J 3 unique J 6 unique J 500 100 400 200 Count 300 100 200 50 100 0 0 20 10 15 20 10 10 15 20 0 0 5 15 0 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV1-58\*02 IGHV1-3\*01\_05 IGHV1-18\*01 25 sequences assigned 1562 sequences assigned 6944 sequences assigned 1256 (18.1%) exact matches, in which: No exact matches. 226 (14.5%) exact matches, in which: 208 unique CDR3 1102 unique CDR3 6 unique J 6 unique J 1200 6 200 150 800 100 400 2 50 0 0 0 10 20 20 5 10 15 12 15 9 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

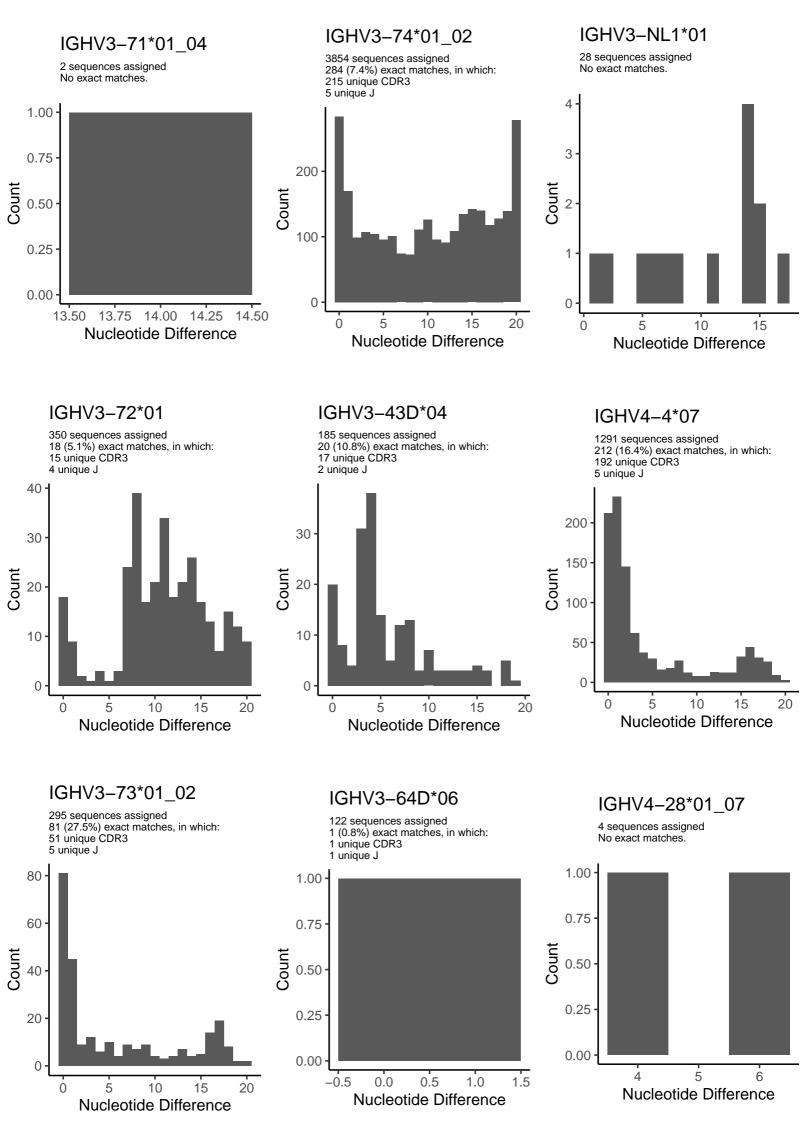


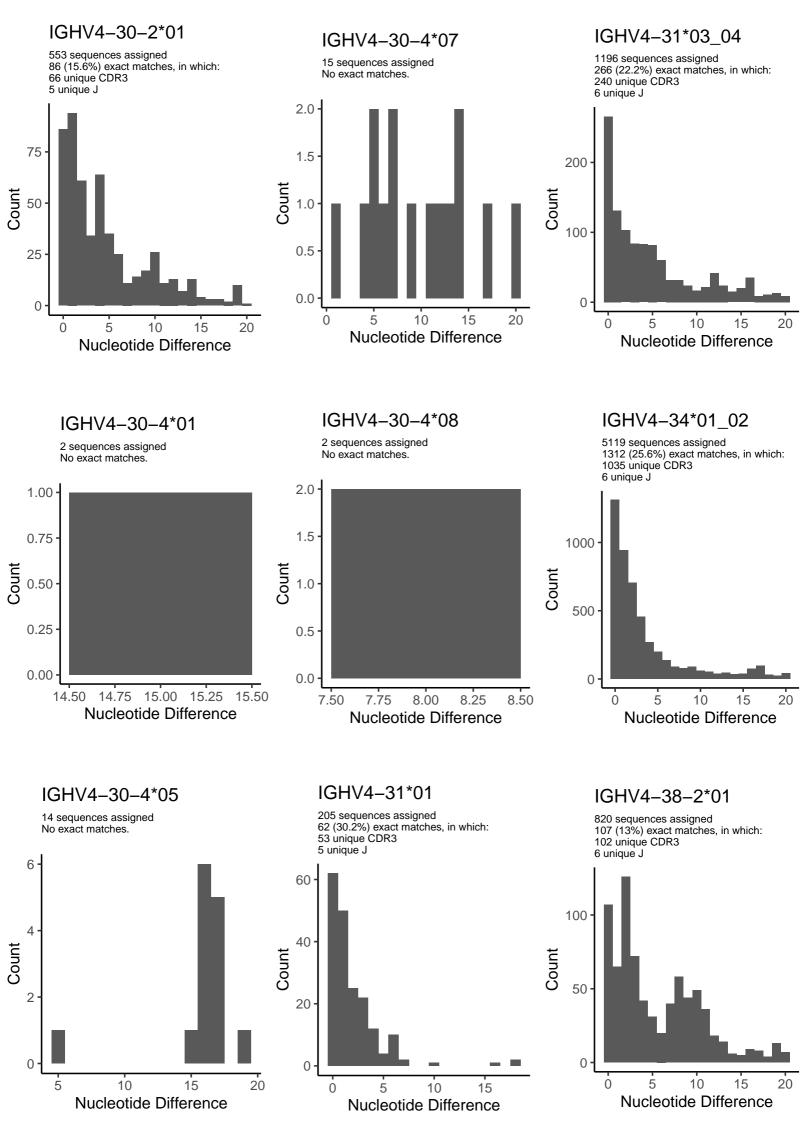


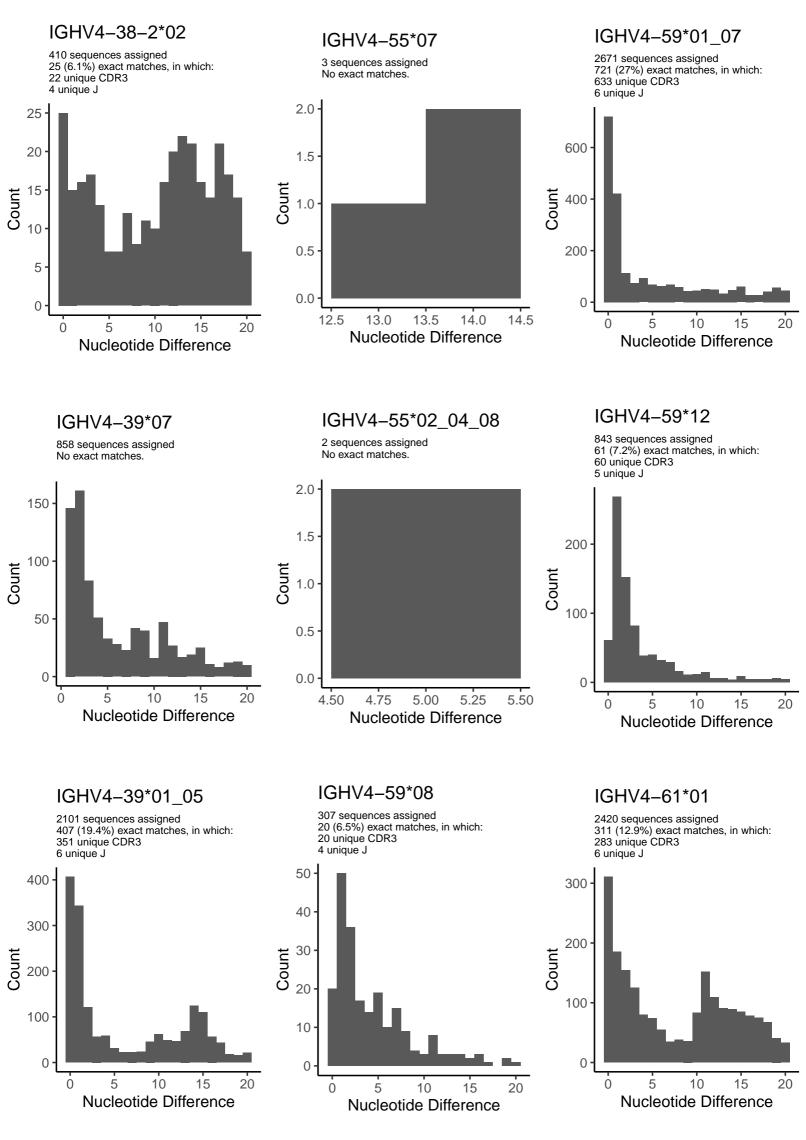


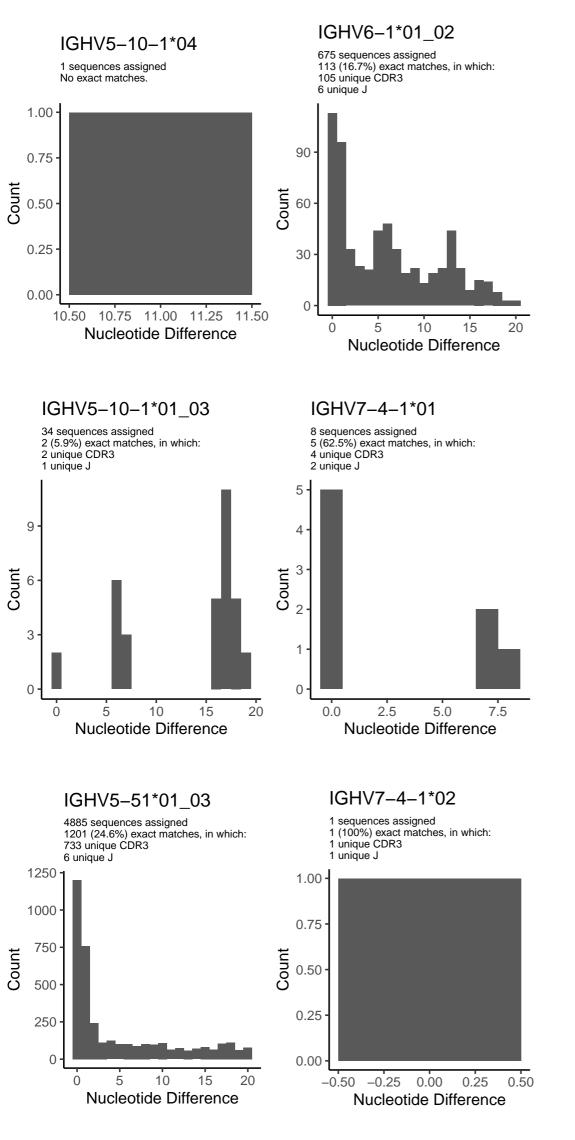














Warning – no inferred sequences found.

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.

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.

Warning - no inferred sequences found.

Novel sequence(s) IGHV3-30\*03\_T288C IGHV3-30-3\*01\_T288C 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.