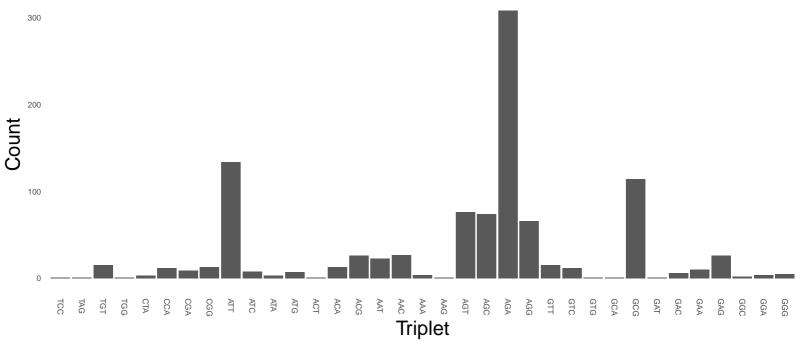
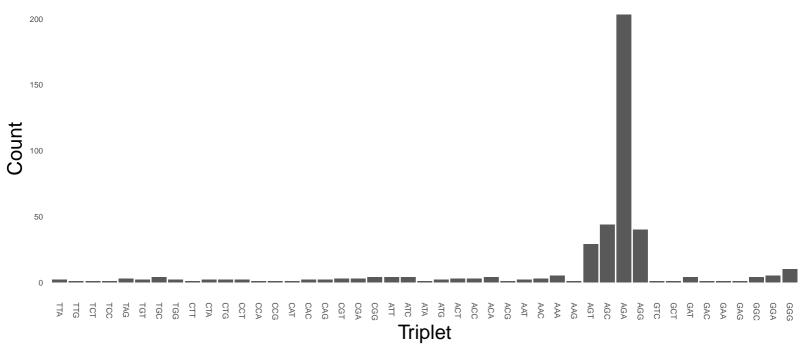


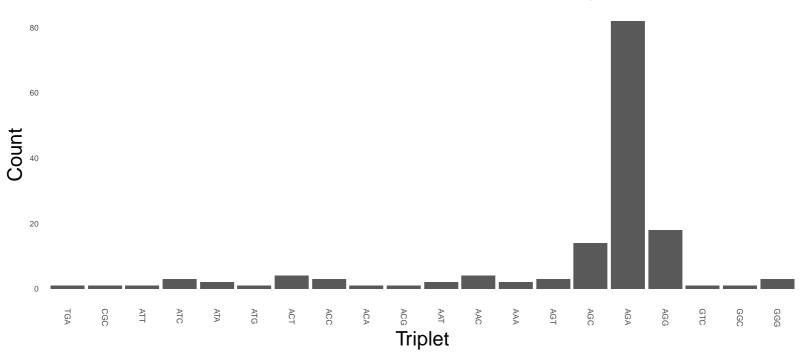
IGHV3-20\*03\_04\_A104G- Final 3 nucleotides as a triplet



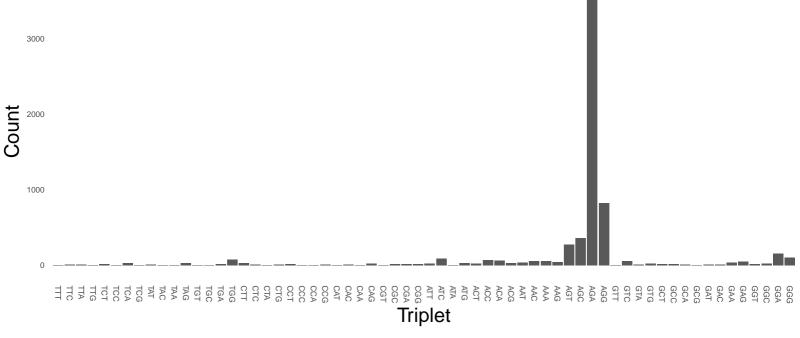
IGHV3-20\*03\_04\_A104G\_C300T\_T301G- Final 3 nucleotides as a triplet



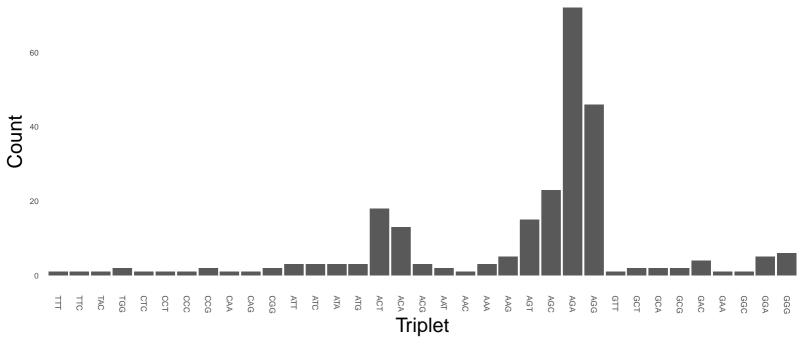
IGHV3-20\*03\_04\_A104G\_G315A\_G317A- Final 3 nucleotides as a triplet

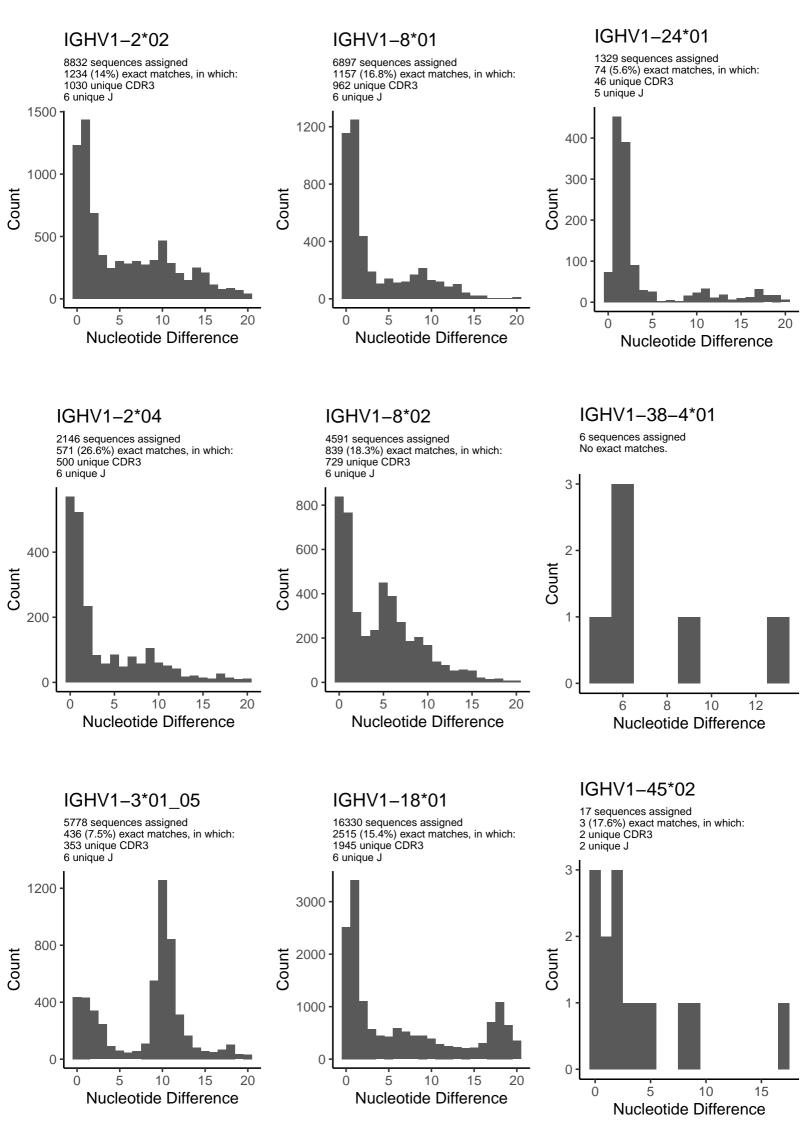


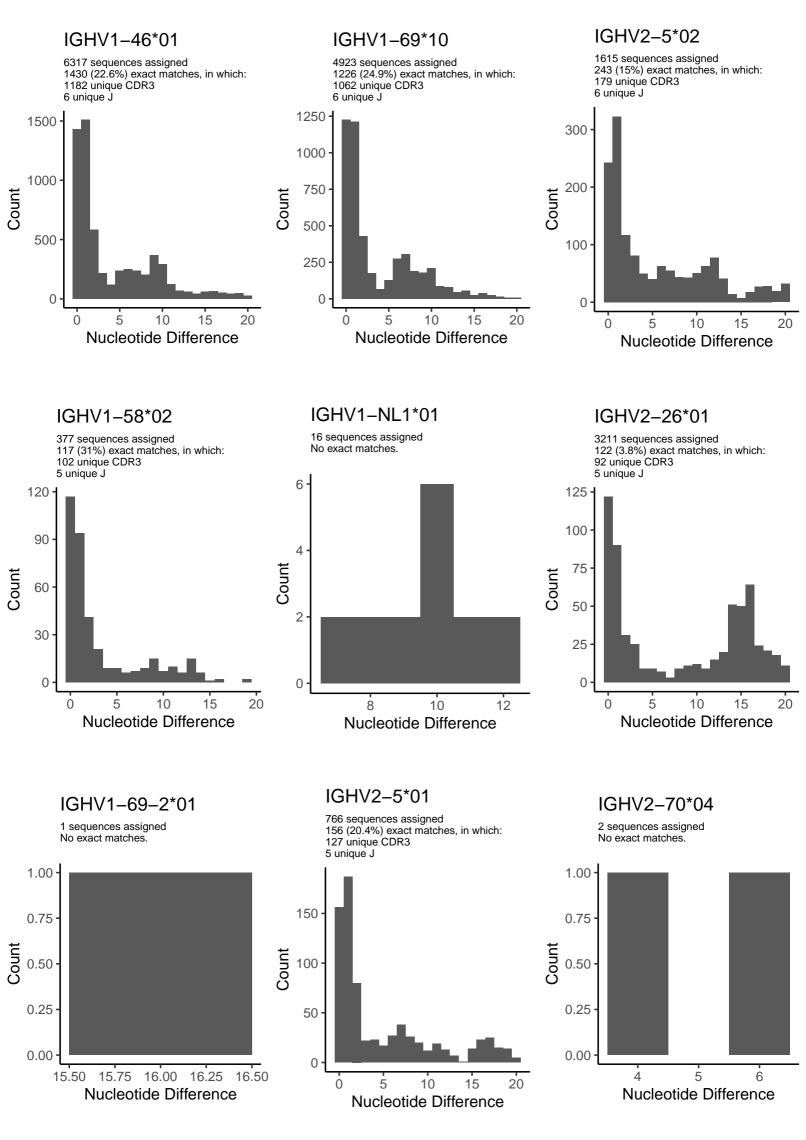
IGHV3-30\*04\_C203T- Final 3 nucleotides as a triplet

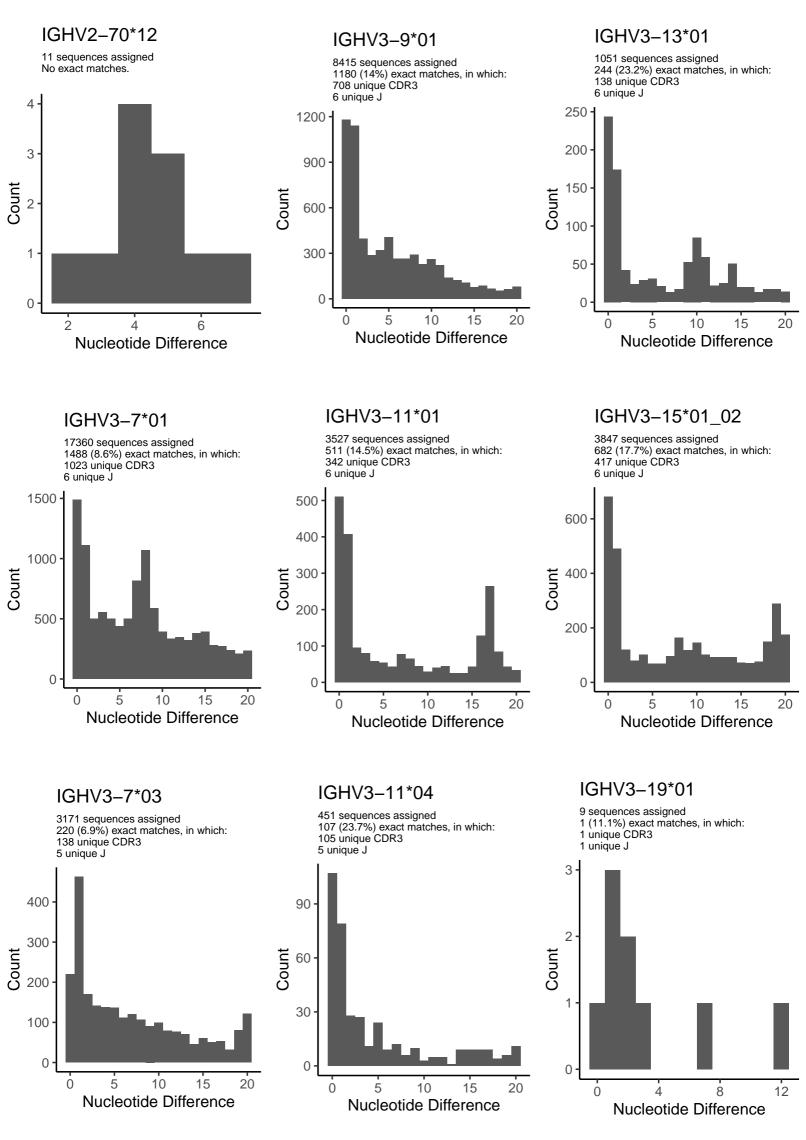


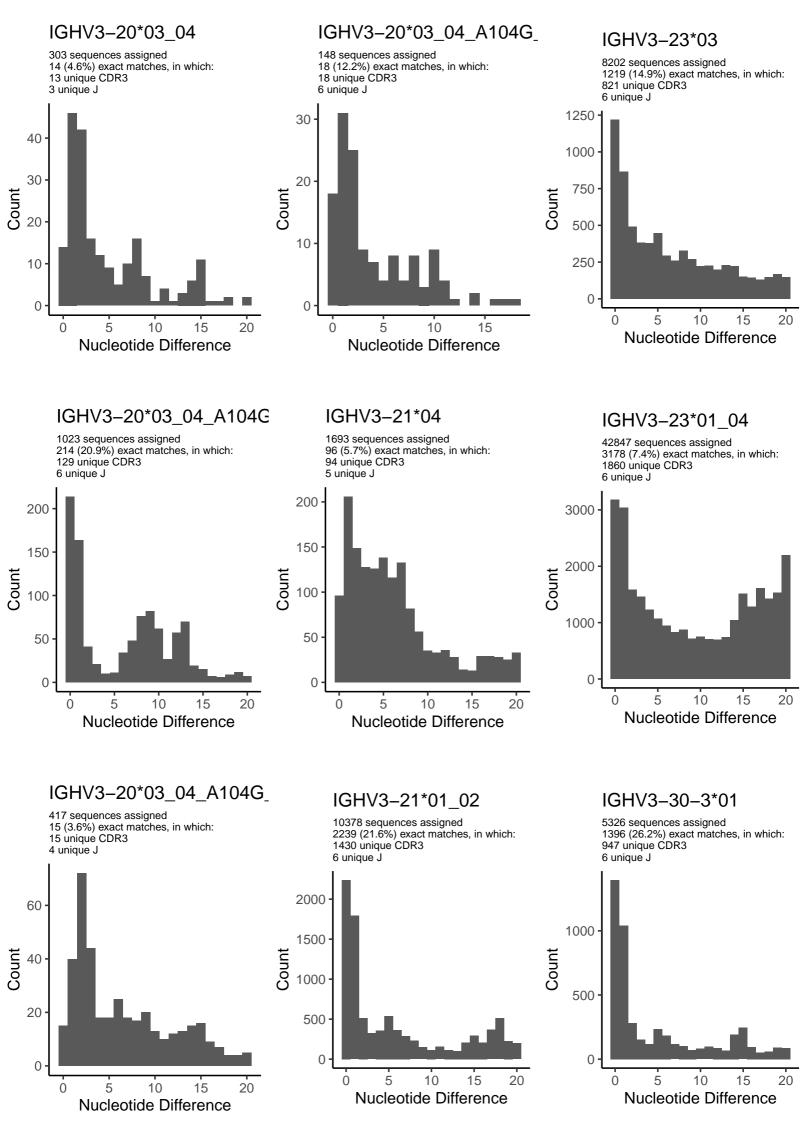
IGHV6-1\*01\_02\_A315G- Final 3 nucleotides as a triplet



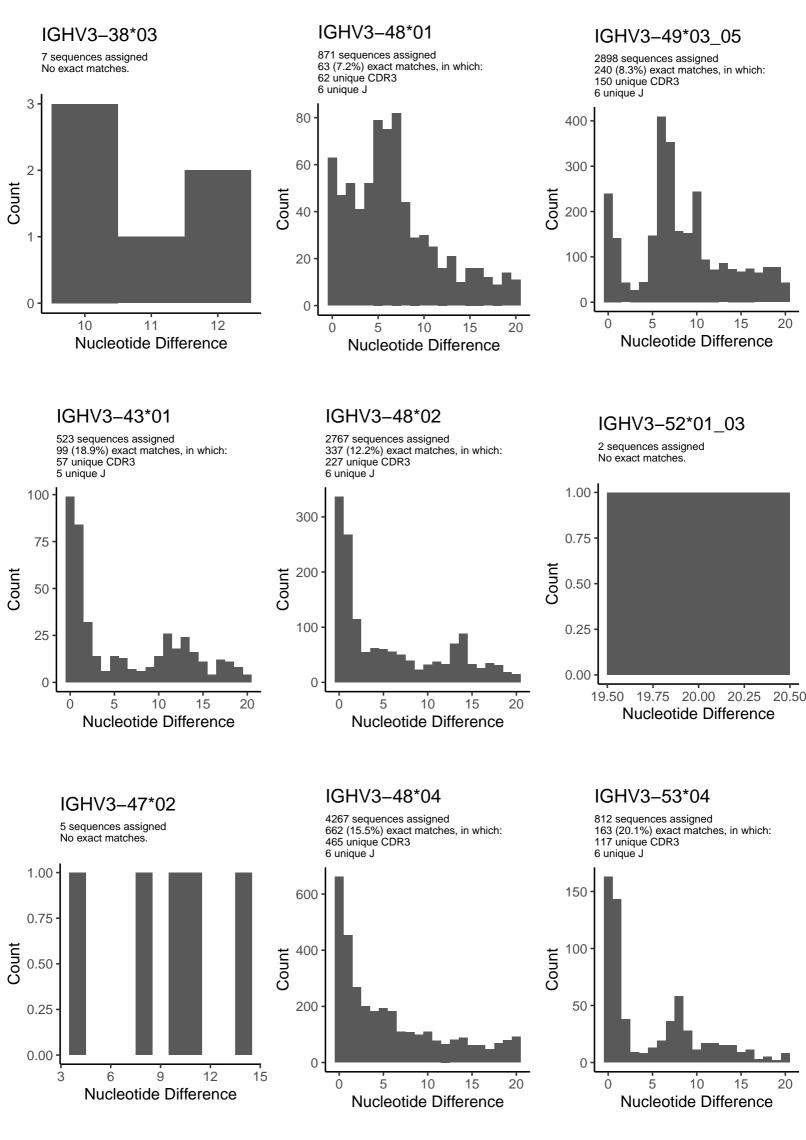


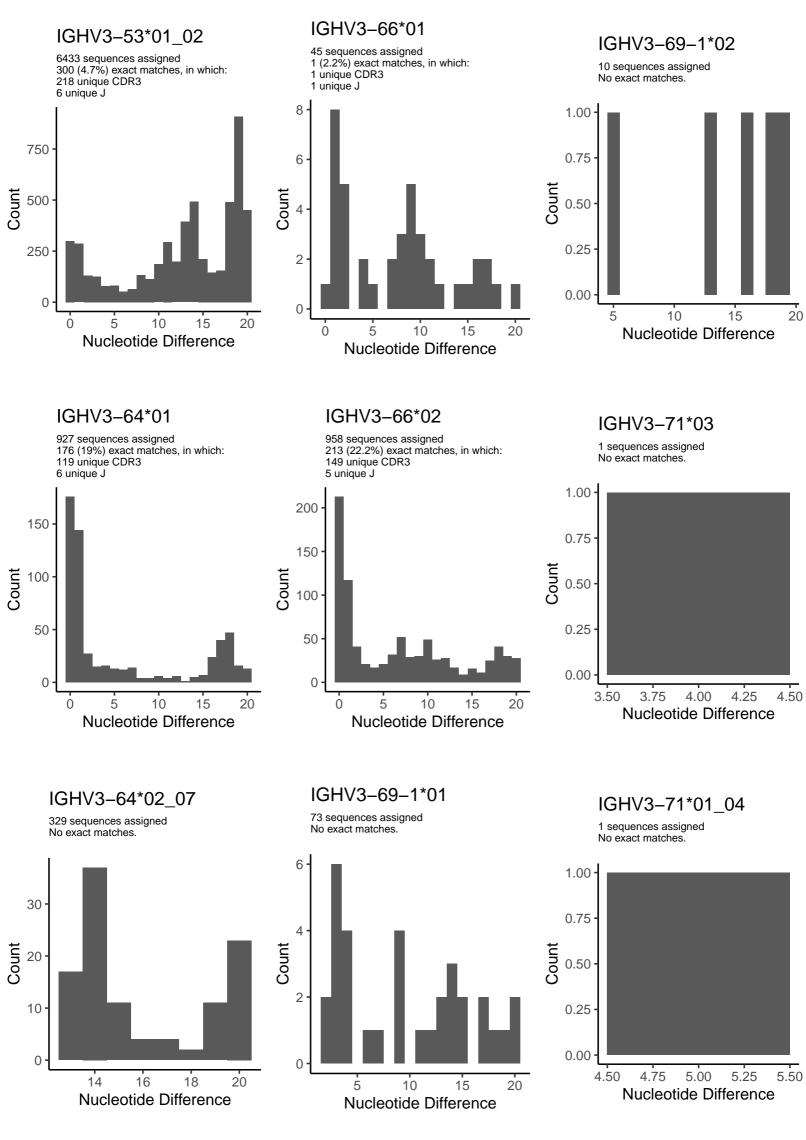


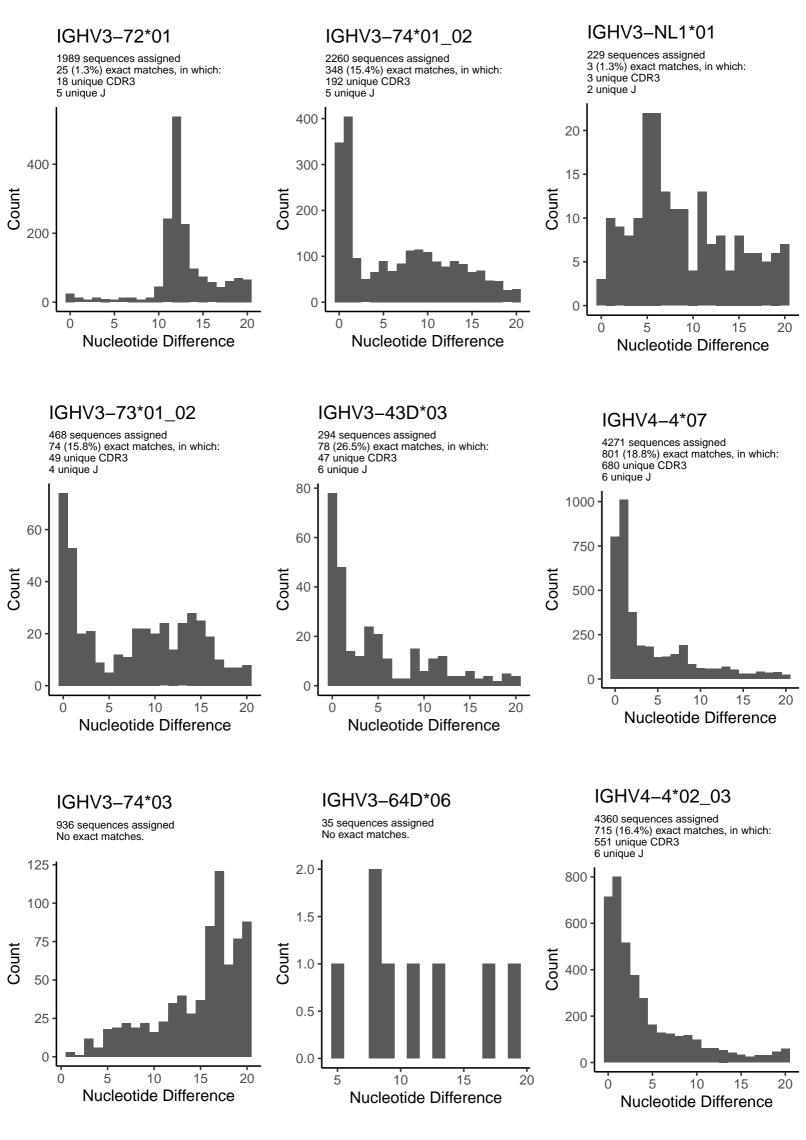


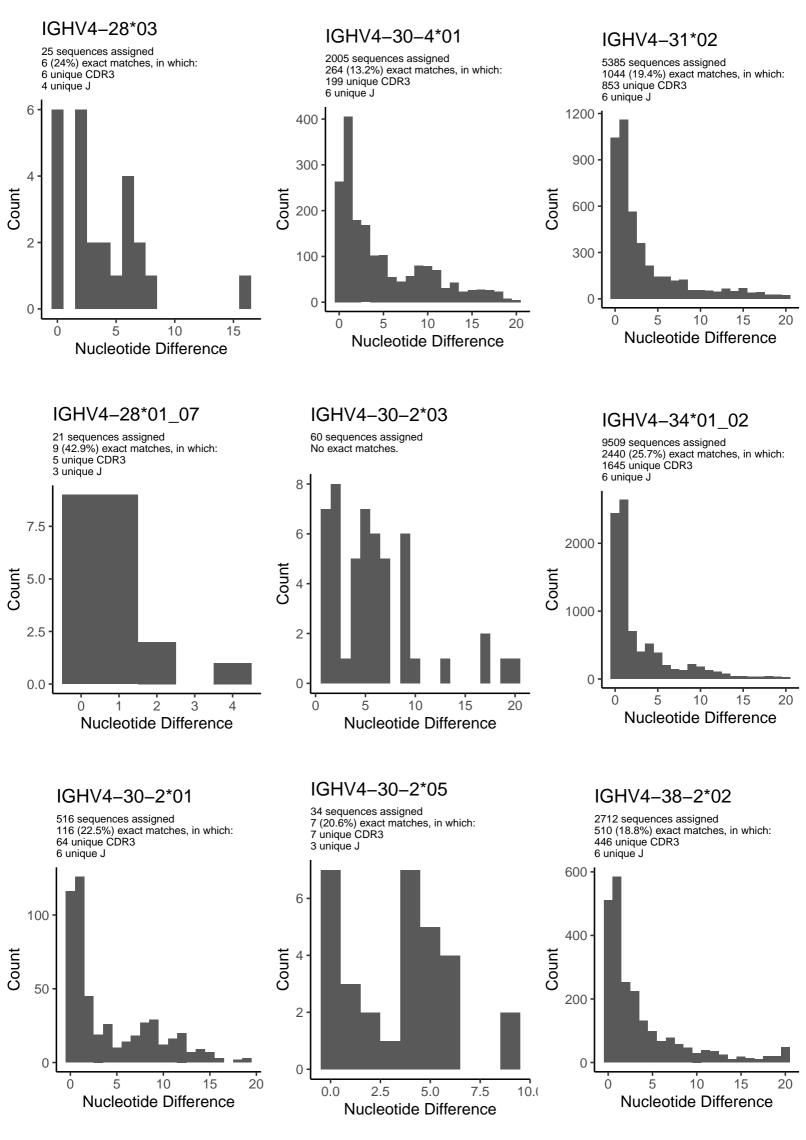


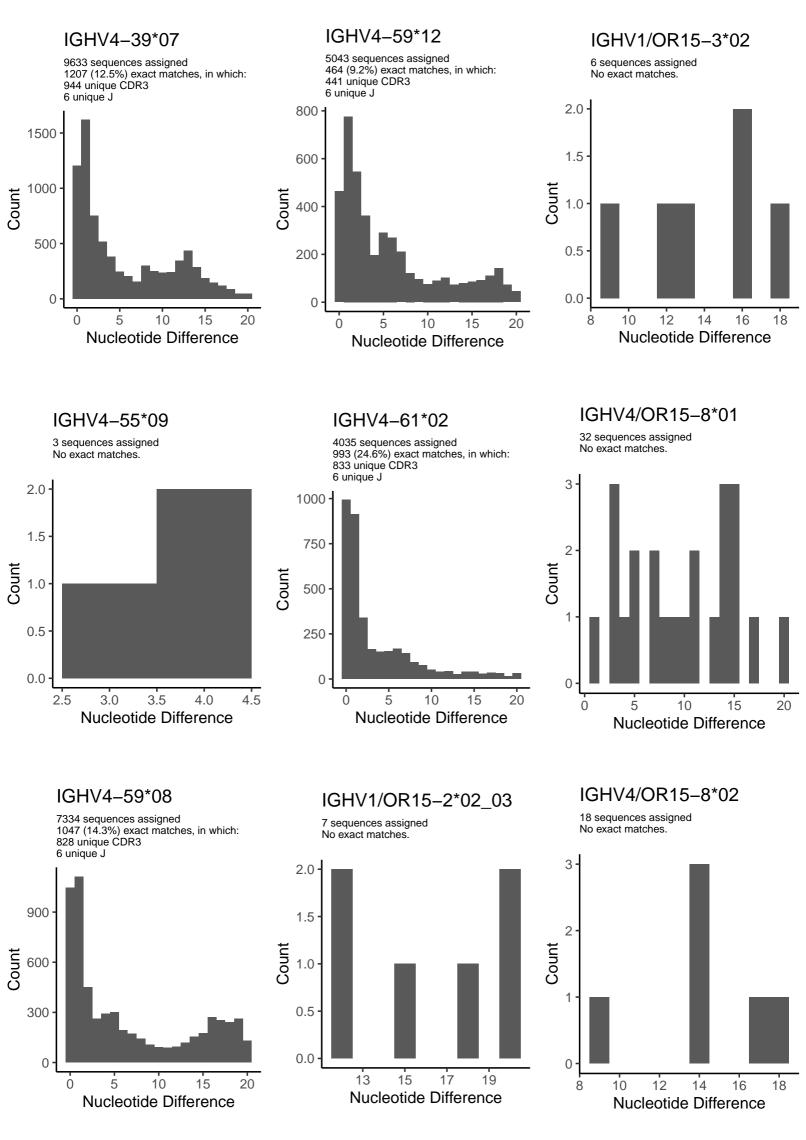
## IGHV3-30\*03 IGHV3-33\*01 IGHV3-33\*08 1427 sequences assigned 374 (26.2%) exact matches, in which: 5690 sequences assigned 643 (11.3%) exact matches, in which: 1615 sequences assigned 126 (7.8%) exact matches, in which: 338 unique CDR3 452 unique CDR3 99 unique CDR3 6 unique J 6 unique J 4 unique J 600 300 400 Count Count Count 200 50 200 100 0 0 0 20 10 15 20 5 10 15 20 5 10 15 0 5 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-35\*01 IGHV3-33\*05 IGHV3-30\*18 10 sequences assigned 2 (20%) exact matches, in which: 2 unique CDR3 291 sequences assigned 24 (8.2%) exact matches, in which: 8603 sequences assigned 856 (10%) exact matches, in which: 24 unique CDR3 519 unique CDR3 2 unique J 2 unique J 6 unique J 25 3 1000 20 750 15 Count Count Count 500 10 250 5 0 0 0 10 20 0 10 20 0 5 15 3 0 6 9 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV3-33\*06 IGHV3-38-3\*01 IGHV3-30\*04\_C203T 3520 sequences assigned 6465 sequences assigned 1374 (21.3%) exact matches, in which: 65 sequences assigned 312 (8.9%) exact matches, in which: 10 (15.4%) exact matches, in which: 206 unique CDR3 10 unique CDR3 942 unique CDR3 5 unique J 4 unique J 6 unique J 10.0 400 300 7.5 1000 Count Count 200 5.0 500 2.5 100 0 0.0 0 10 0 15 20 10 5 5 10 15 20 Nucleotide Difference **Nucleotide Difference Nucleotide Difference**

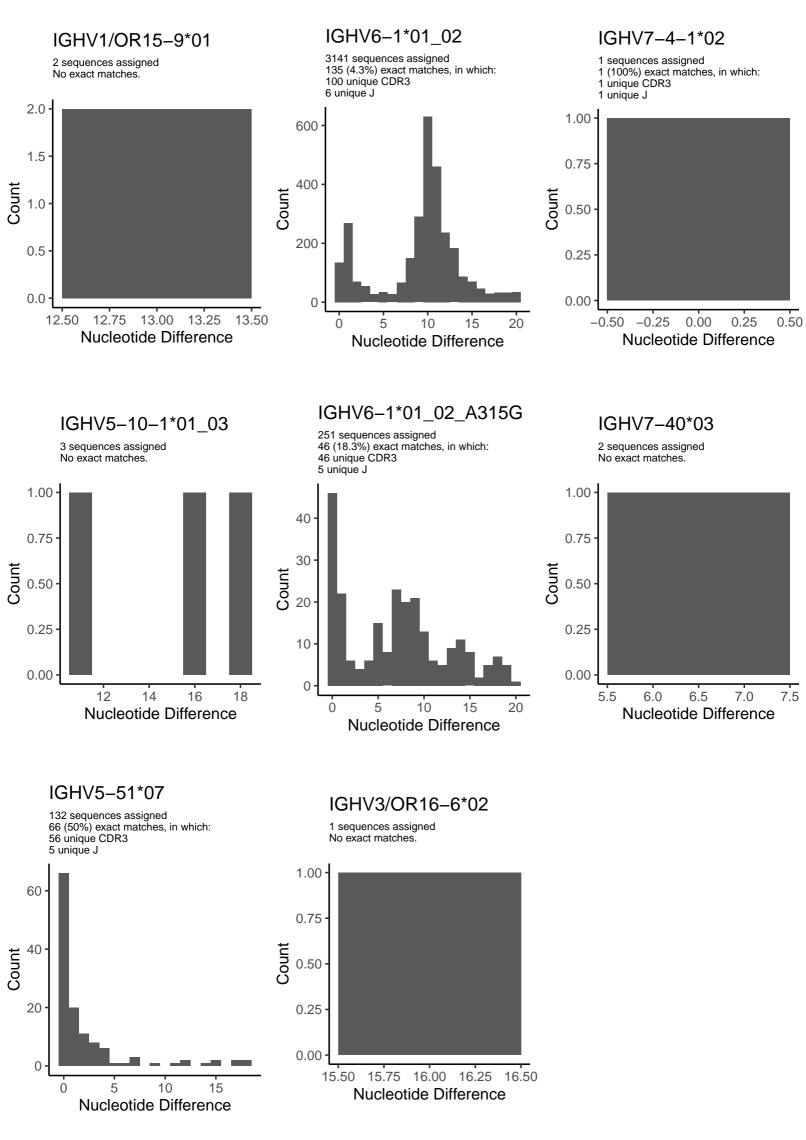


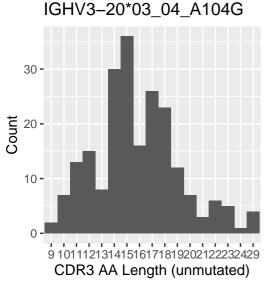


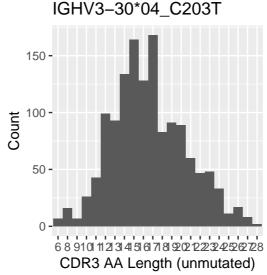


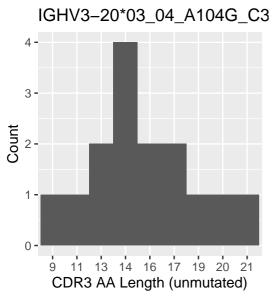


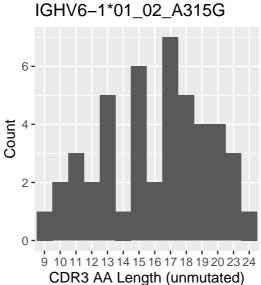












## IGHV3-20\*03\_04\_A104G\_G315A\_G317A

