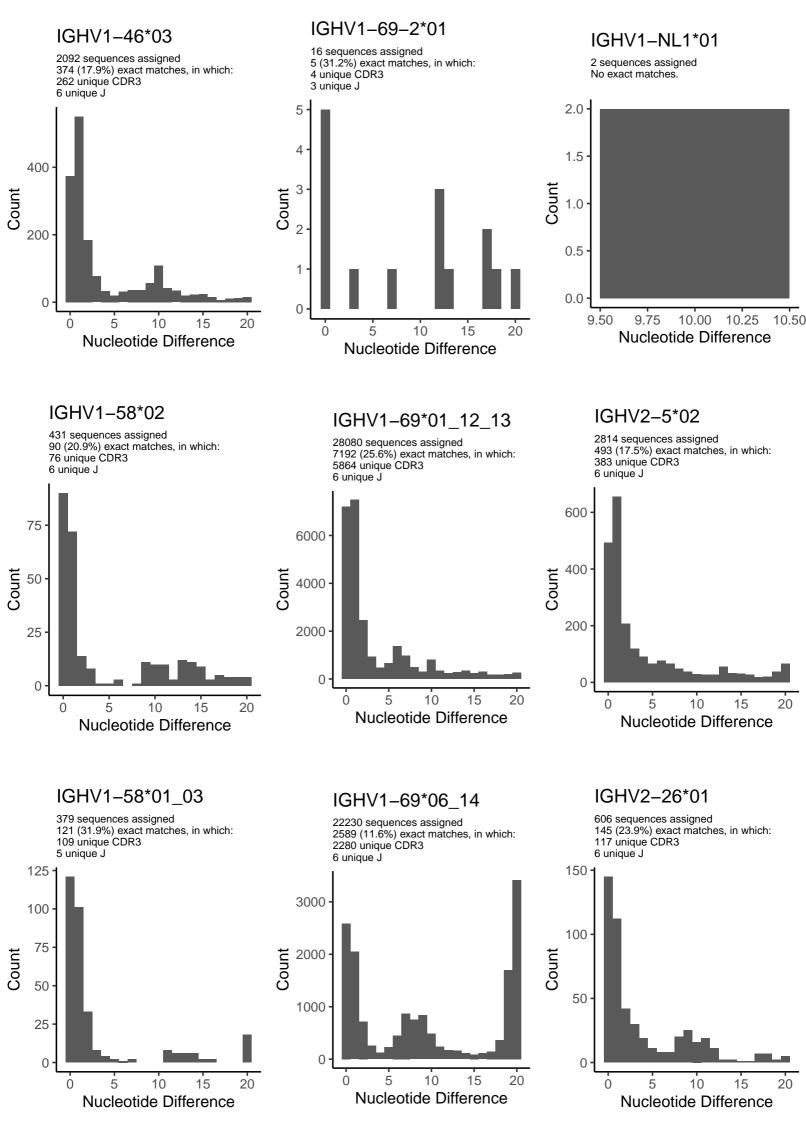
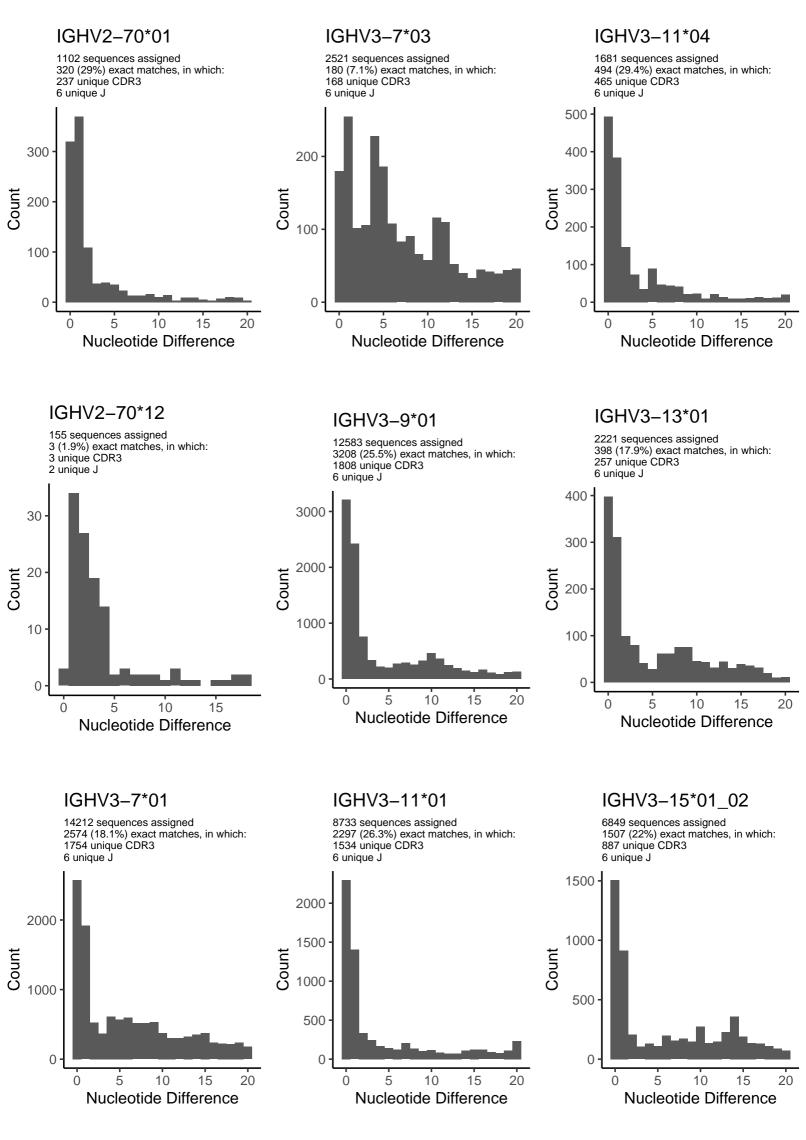
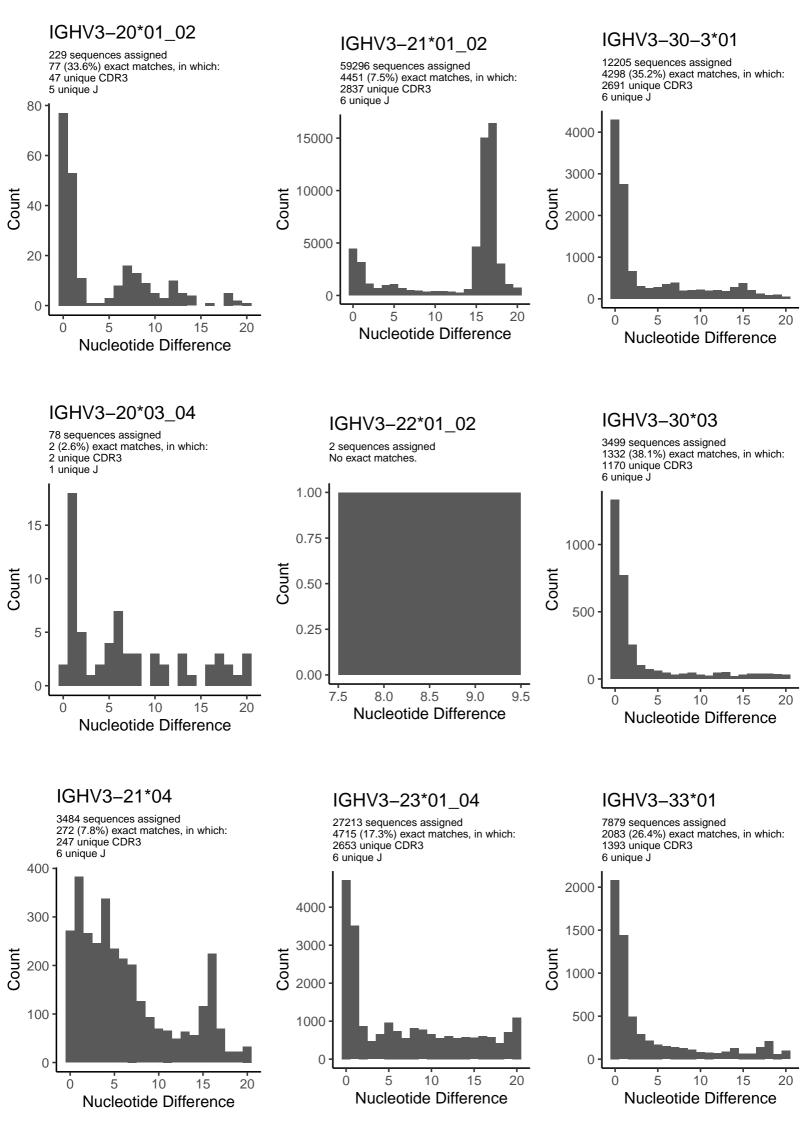
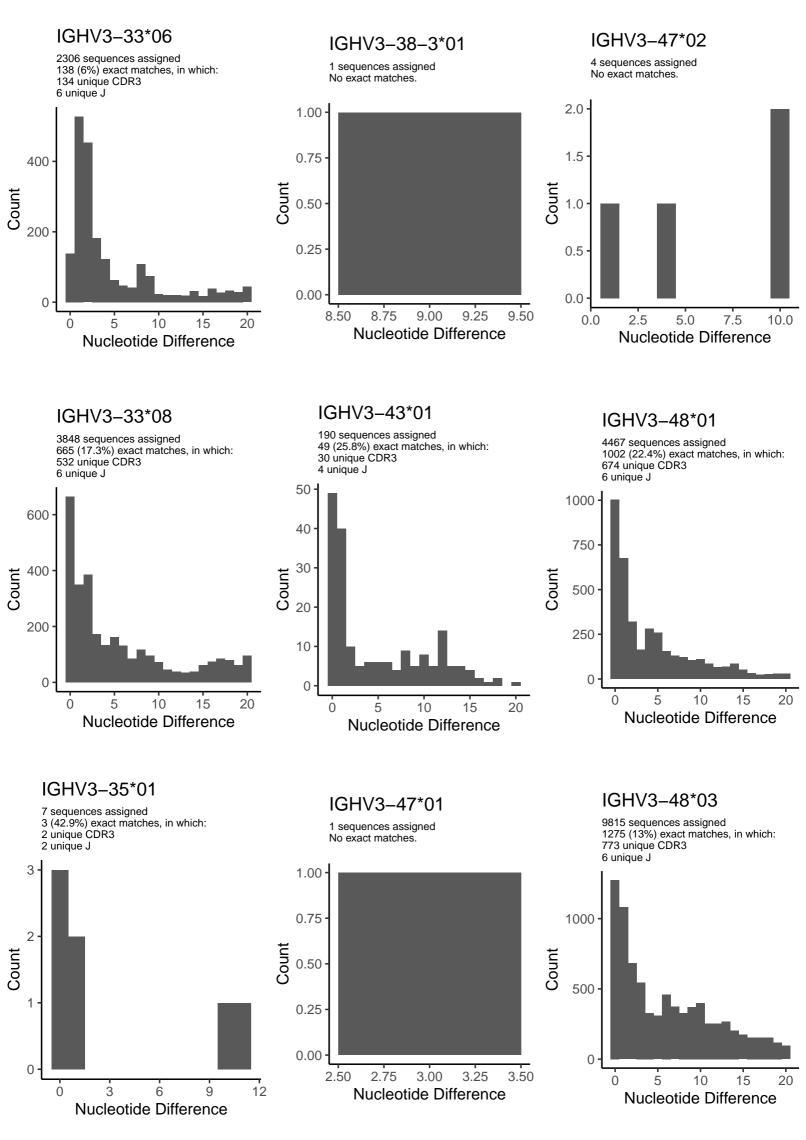
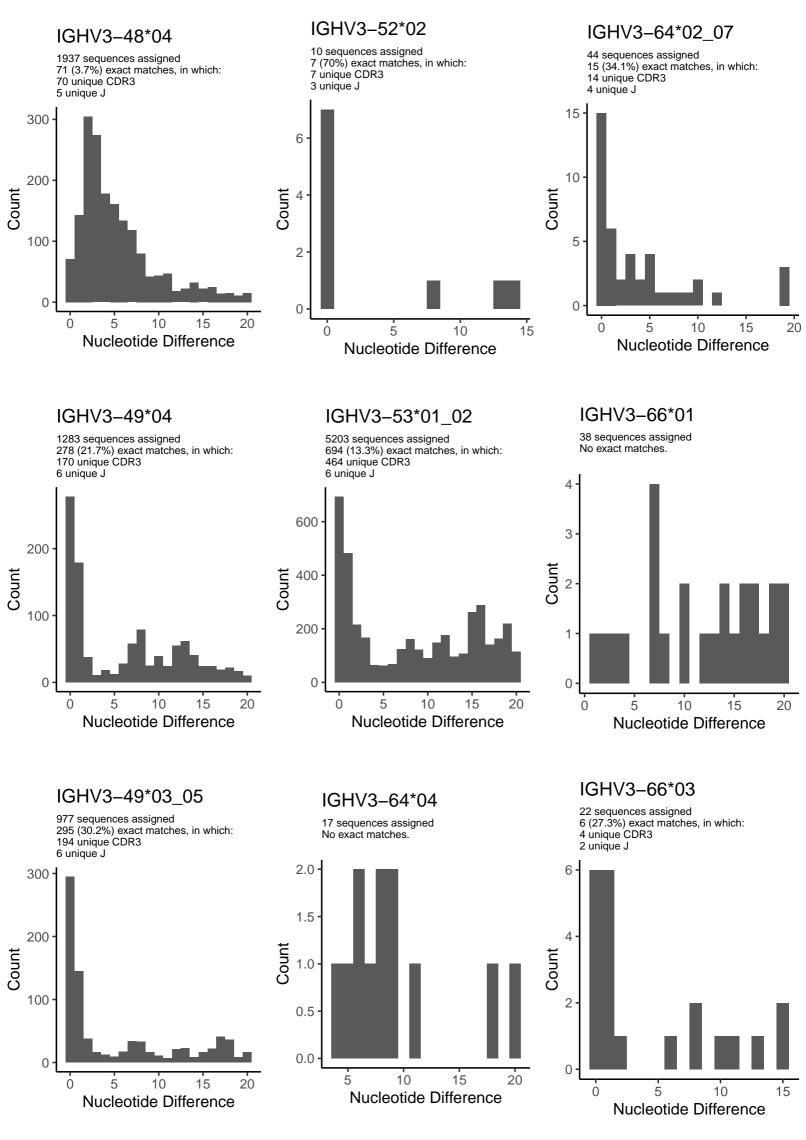
## IGHV1-2\*04 IGHV1-24\*01 IGHV1-8\*01 2531 sequences assigned 662 (26.2%) exact matches, in which: 2808 sequences assigned 12911 sequences assigned 3097 (24%) exact matches, in which: 884 (31.5%) exact matches, in which: 766 unique CDR3 567 unique CDR3 2614 unique CDR3 6 unique J 6 unique J 6 unique J 3000 600 750 2000 400 Count Count 500 1000 200 250 0 0 0 0 10 15 20 10 15 20 10 15 20 0 0 5 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV1-45\*02 IGHV1-8\*02 IGHV1-2\*06 41 sequences assigned 7 (17.1%) exact matches, in which: 7 unique CDR3 13040 sequences assigned 2204 (16.9%) exact matches, in which: 1855 unique CDR3 2530 sequences assigned 21 (0.8%) exact matches, in which: 21 unique CDR3 2 unique J 5 unique J 6 unique J 2000 6 400 1500 Count 1000 200 500 2 0 0 0 10 20 10 15 0 5 20 15 20 0 10 Nucleotide Difference **Nucleotide Difference Nucleotide Difference** IGHV1-3\*01\_05 IGHV1-18\*01 IGHV1-46\*01 5981 sequences assigned 1646 (27.5%) exact matches, in which: 27582 sequences assigned 4203 (15.2%) exact matches, in which: 5434 sequences assigned 988 (18.2%) exact matches, in which: 1318 unique CDR3 3400 unique CDR3 906 unique CDR3 6 unique J 6 unique J 6 unique J 5000 1000 1500 4000 750 1000 3000 Count Count 500 2000 500 250 1000 0 0 0 10 15 20 10 15 20 10 0 Nucleotide Difference **Nucleotide Difference Nucleotide Difference**

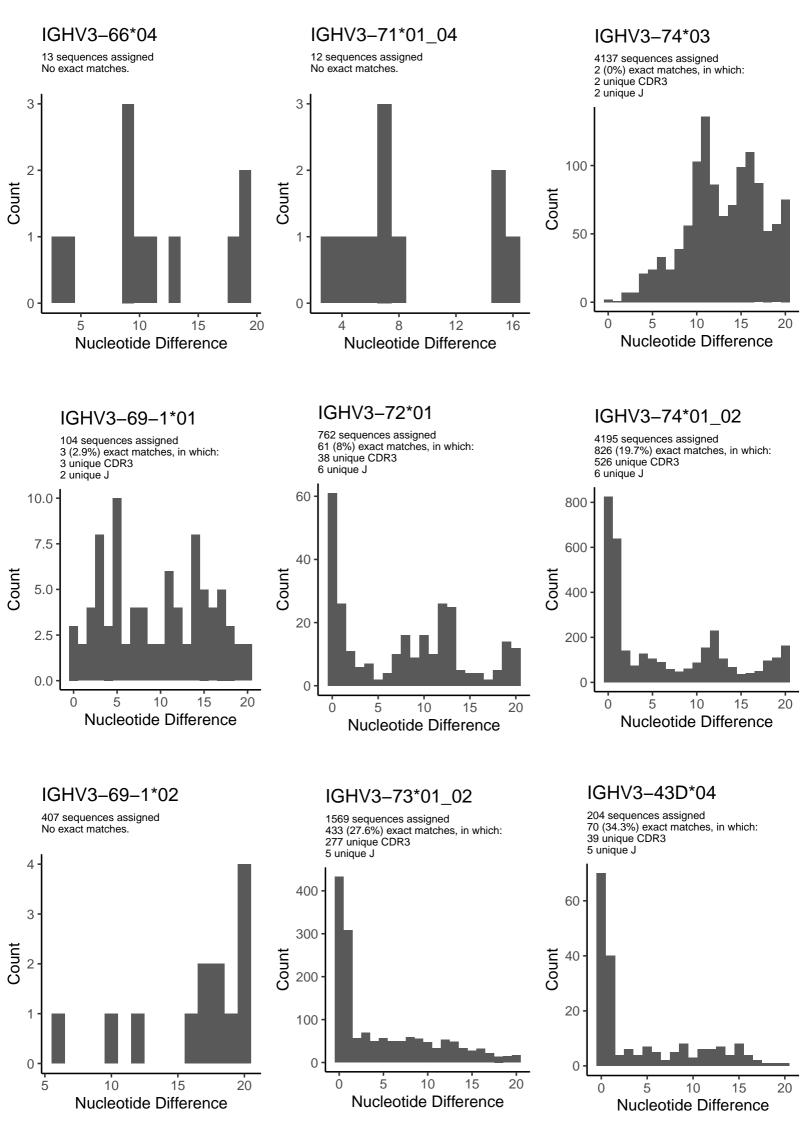


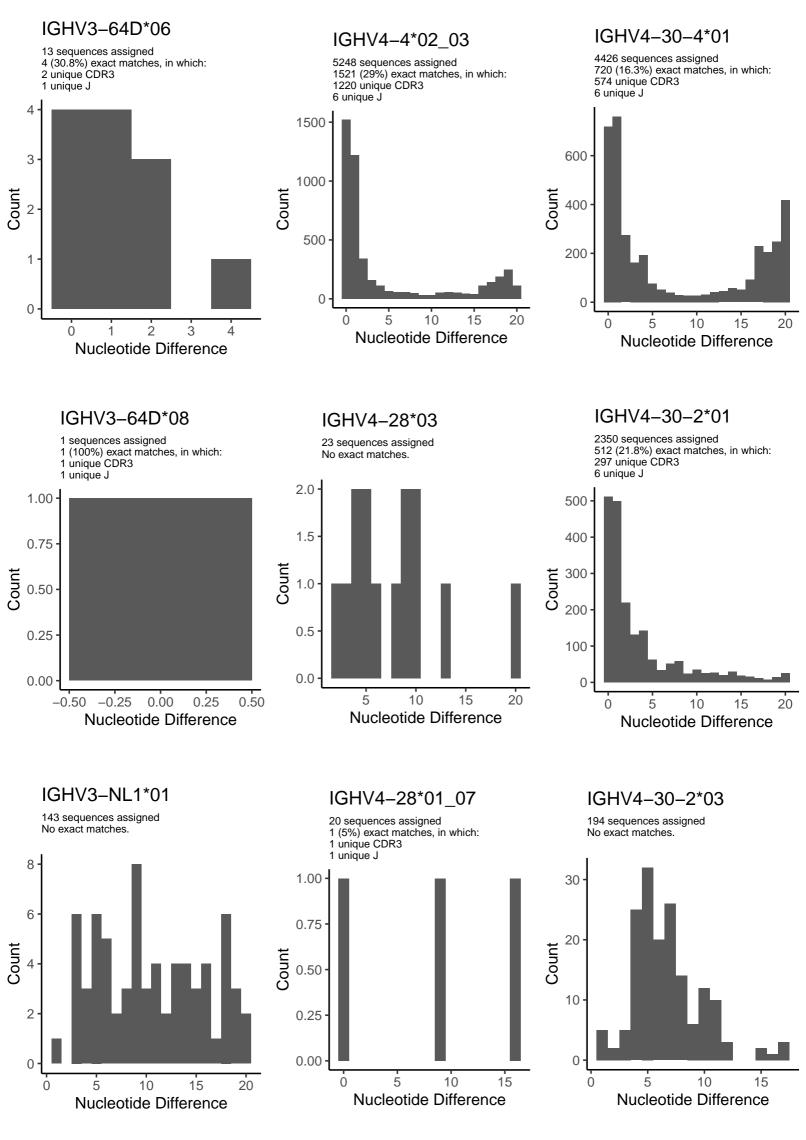


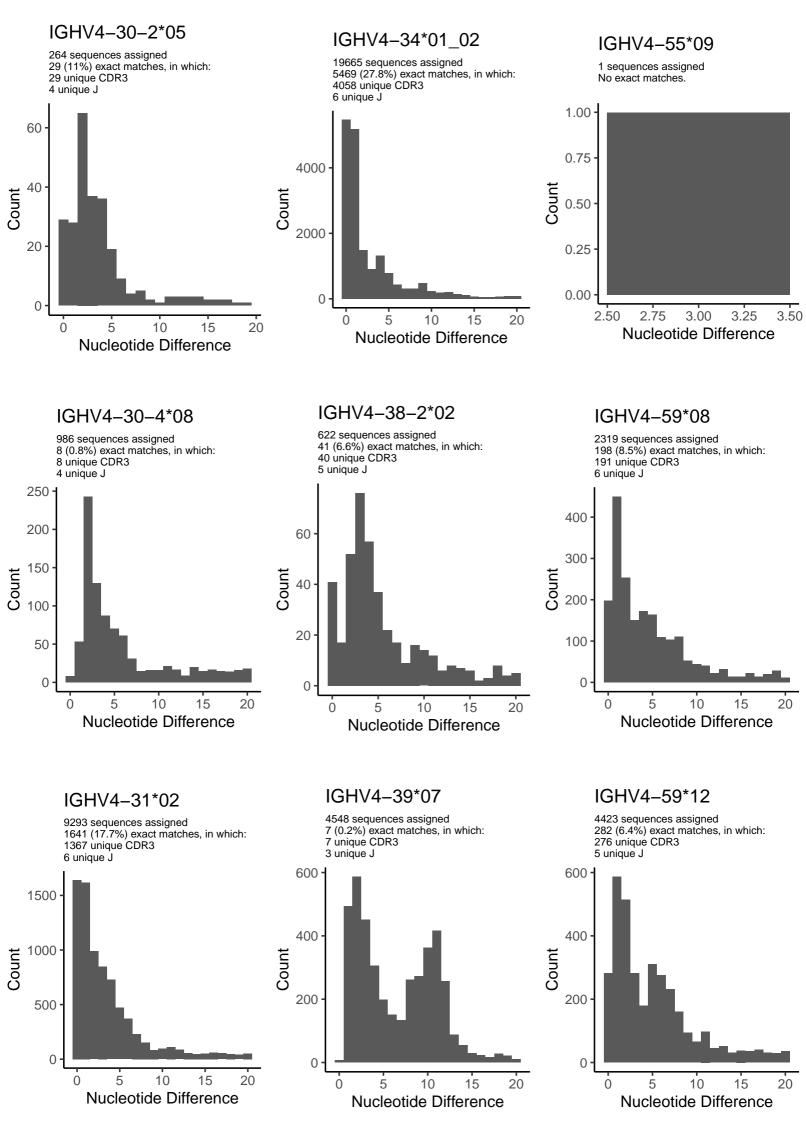


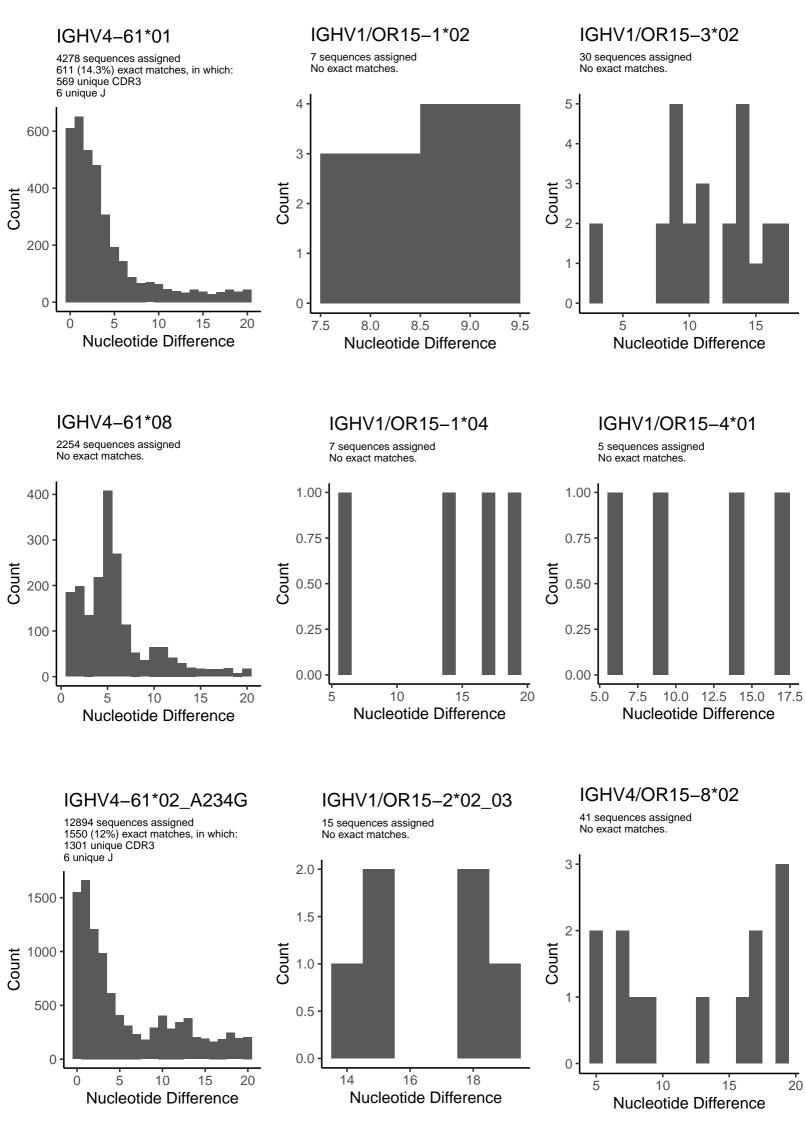


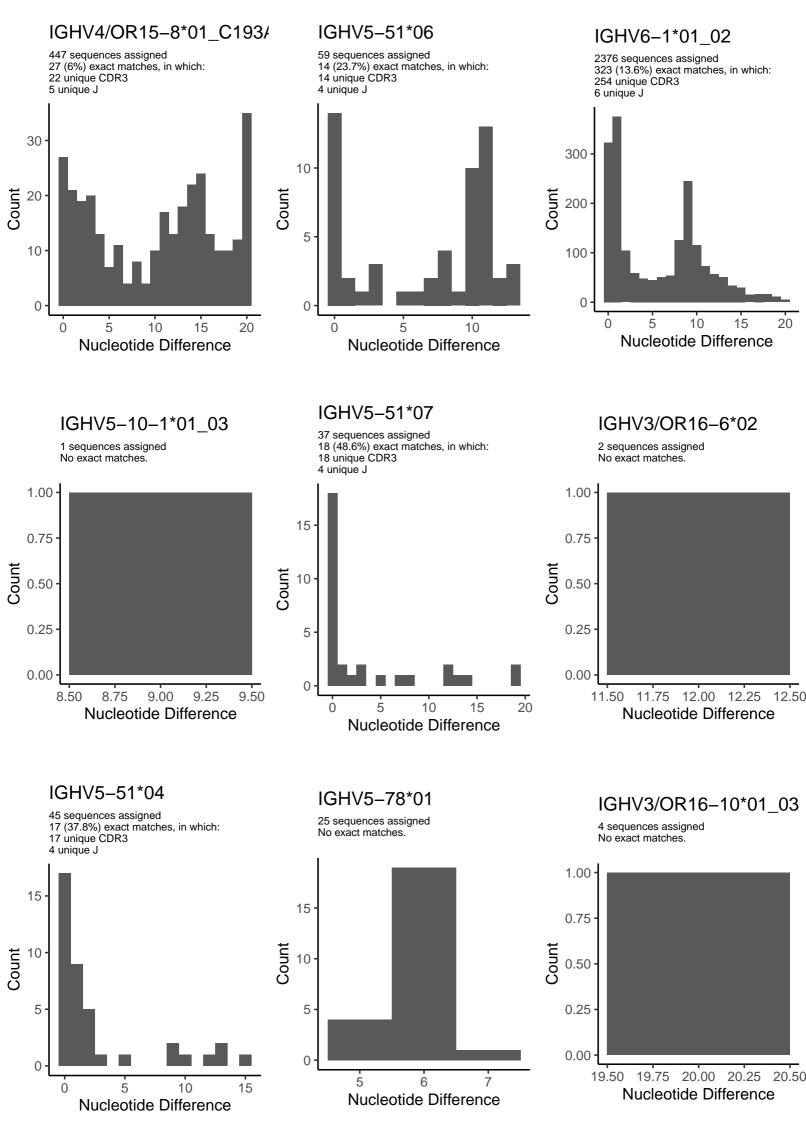






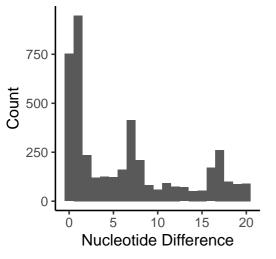






## IGHV7-4-1\*02

8075 sequences assigned 753 (9.3%) exact matches, in which: 576 unique CDR3 6 unique J



## IGHV7-81\*01

1 sequences assigned No exact matches.

