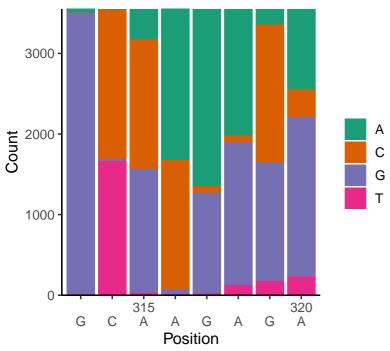
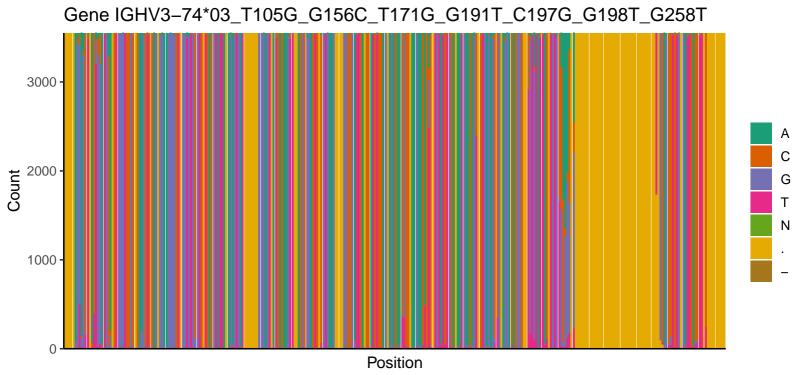
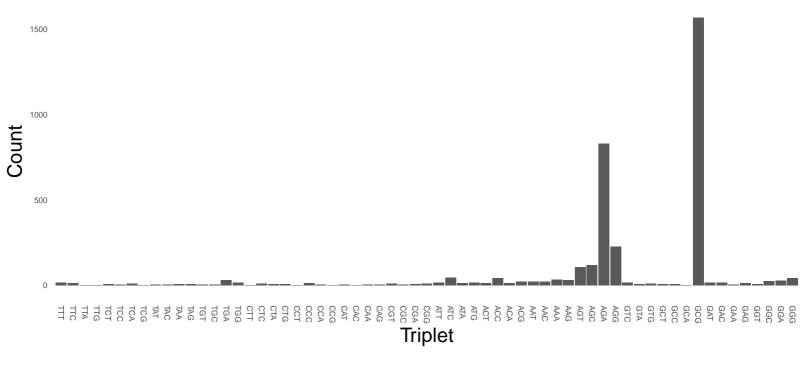
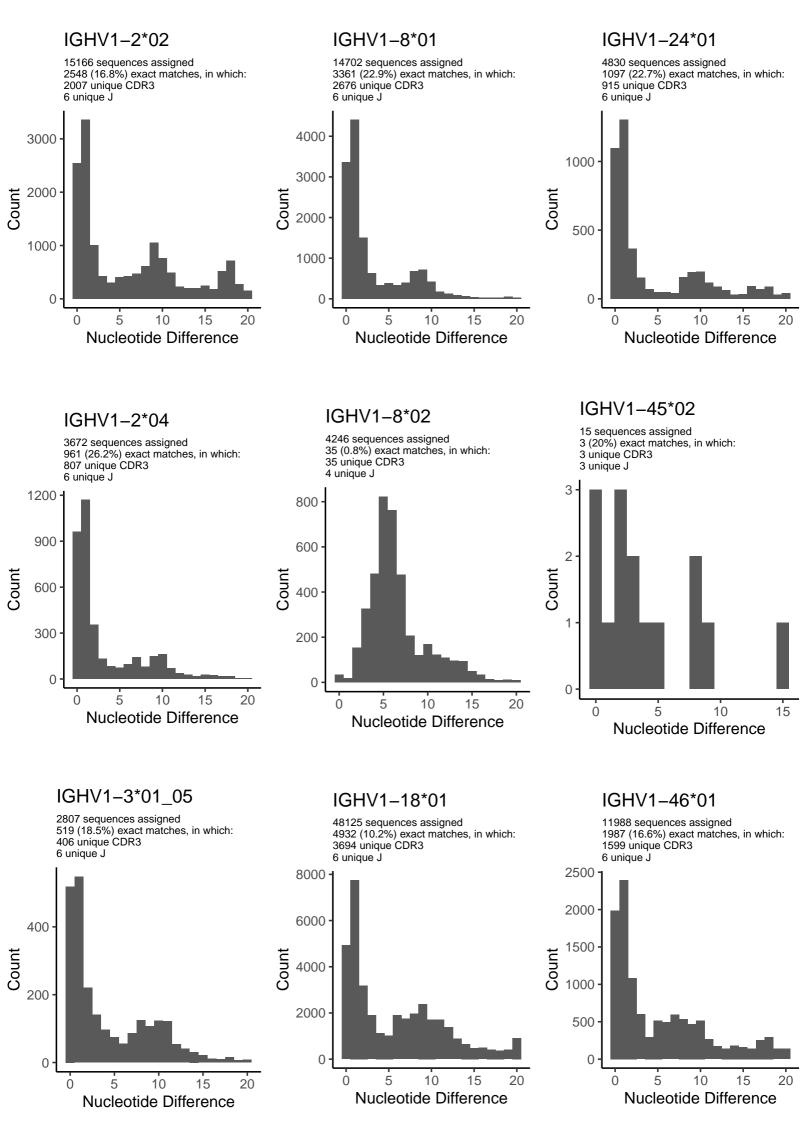
Gene IGHV3-74\*03\_T105G\_G156C\_T171G\_G191T\_C197G\_G198T\_G258T

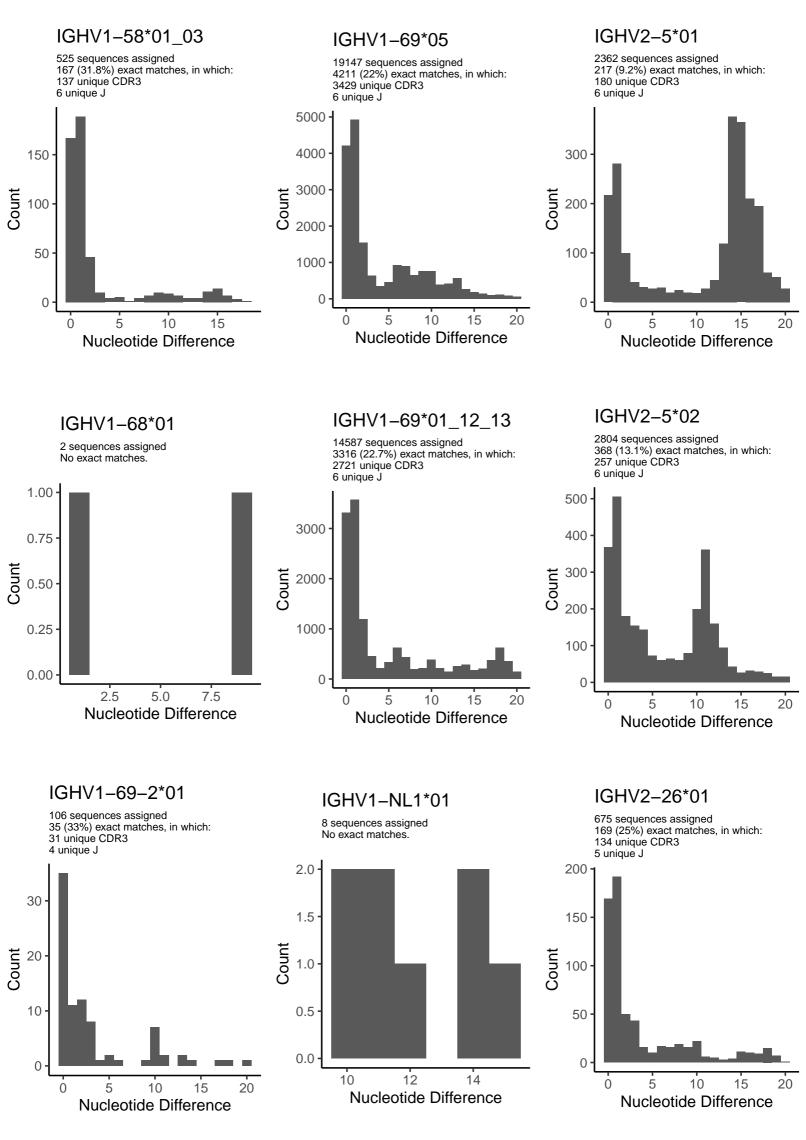


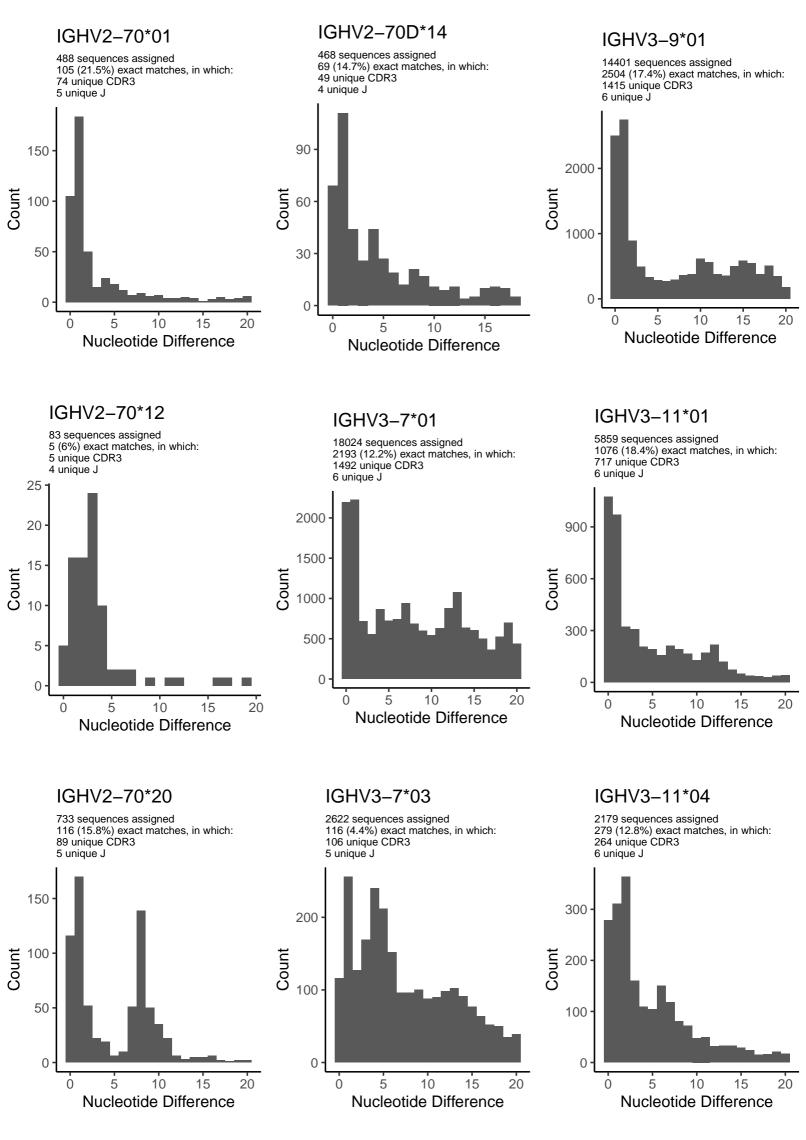


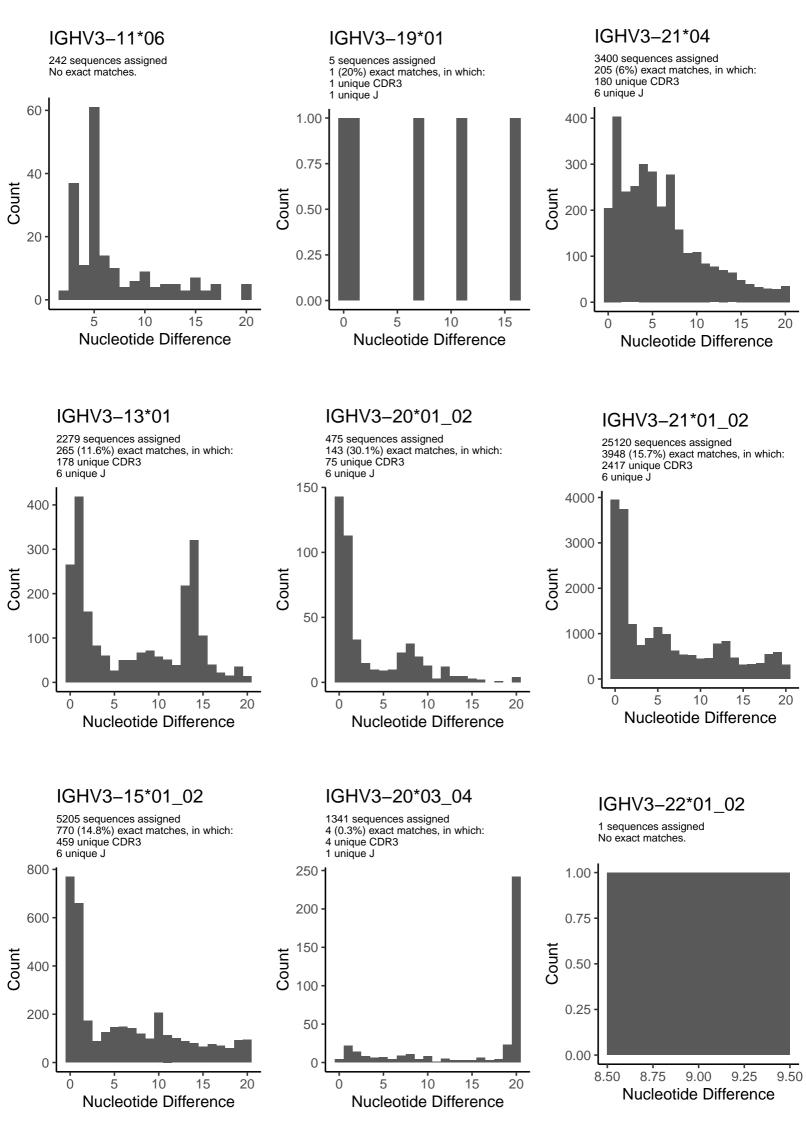
IGHV3-74\*03\_T105G\_G156C\_T171G\_G191T\_C197G\_G198T\_G258T- Final 3 nucleotides as a

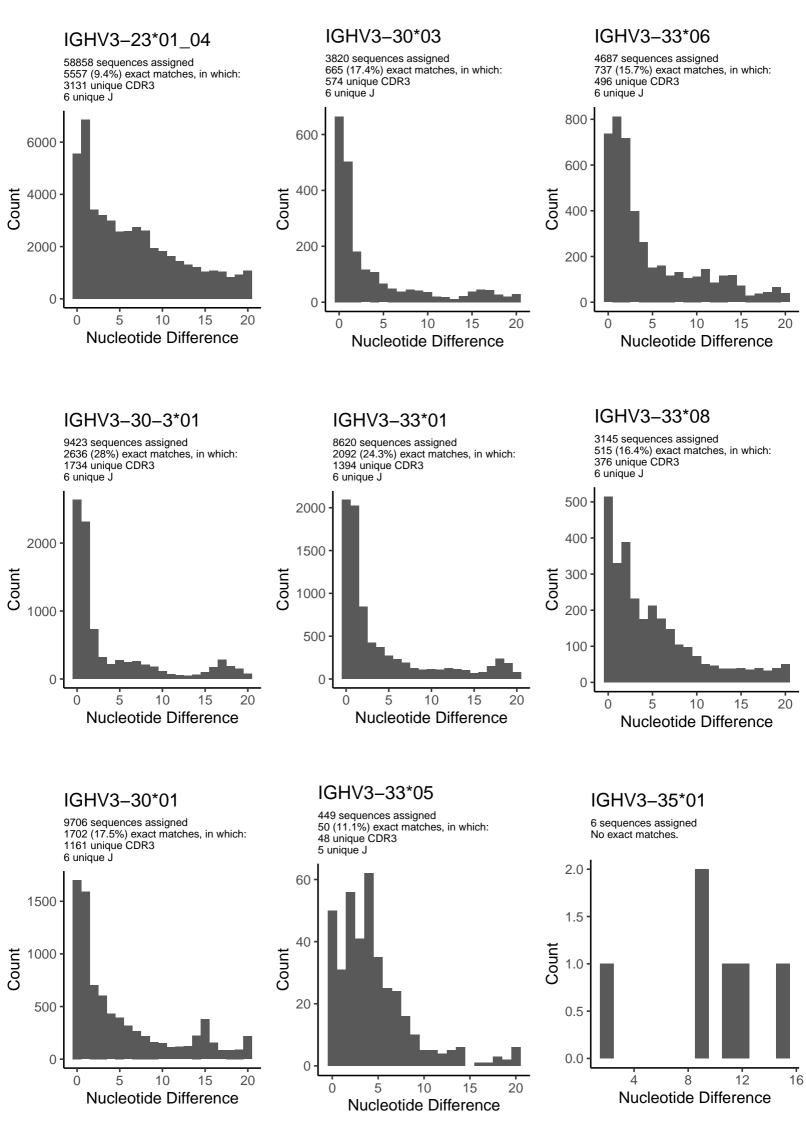




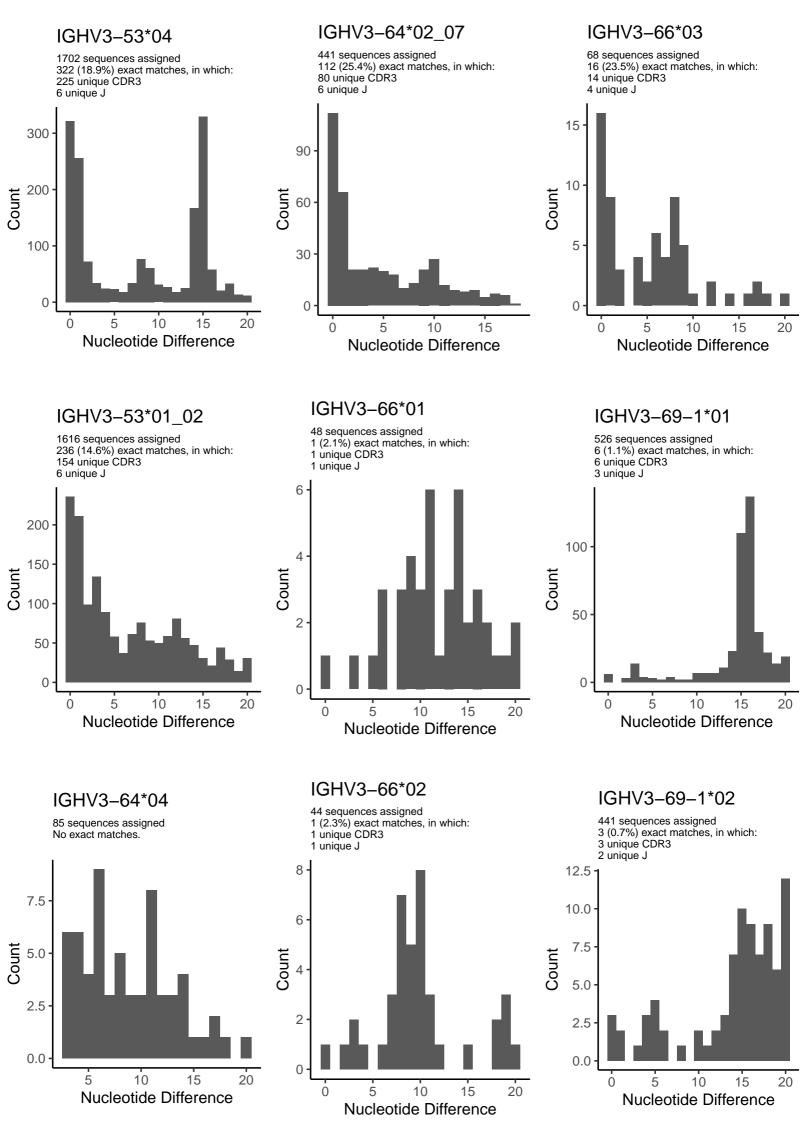


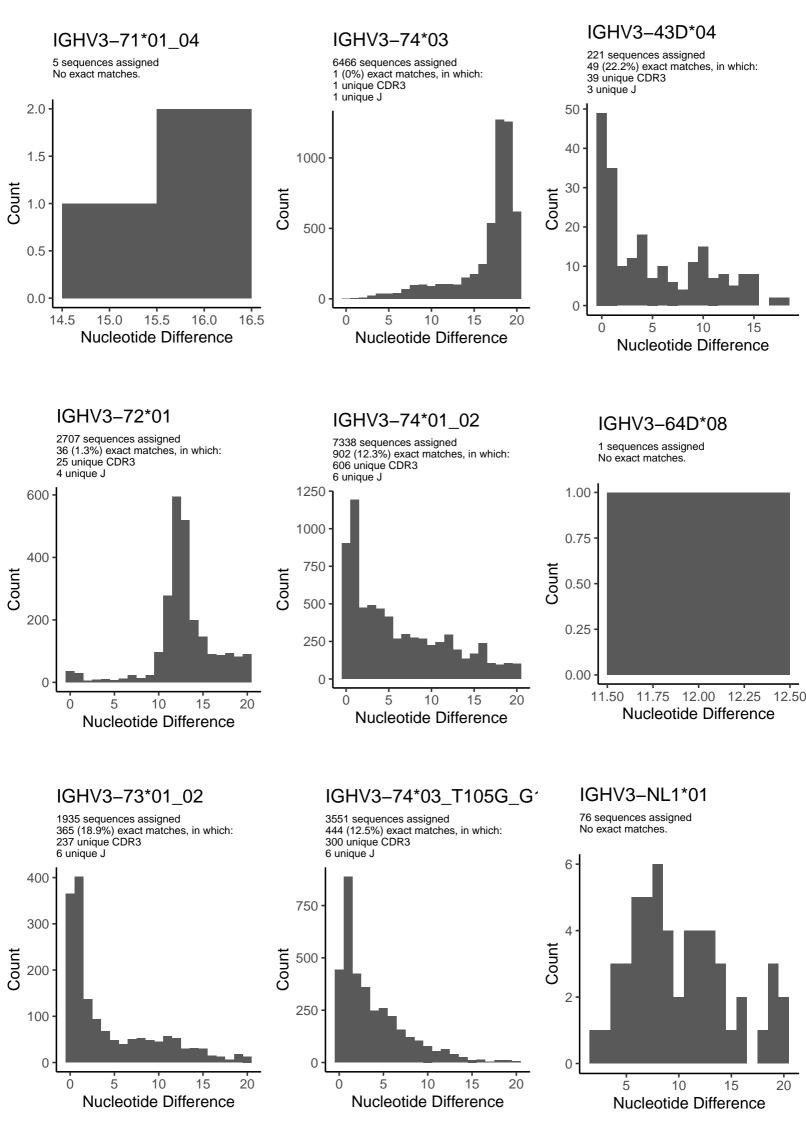


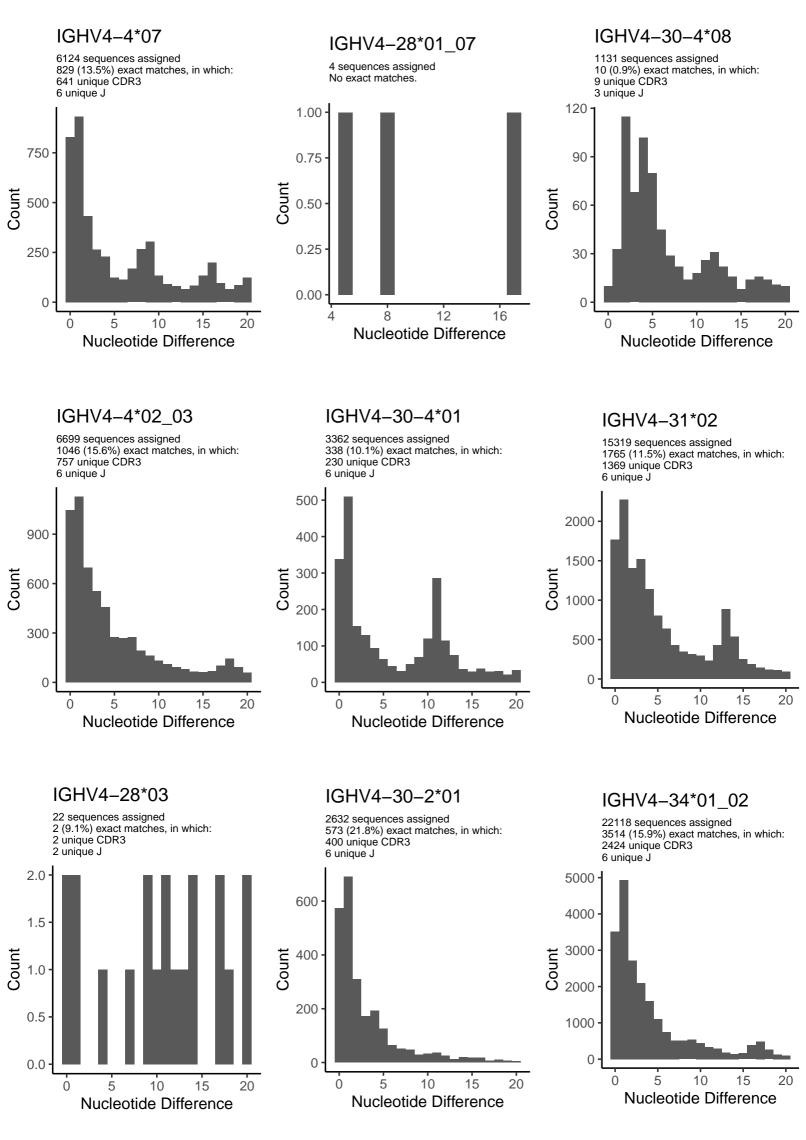


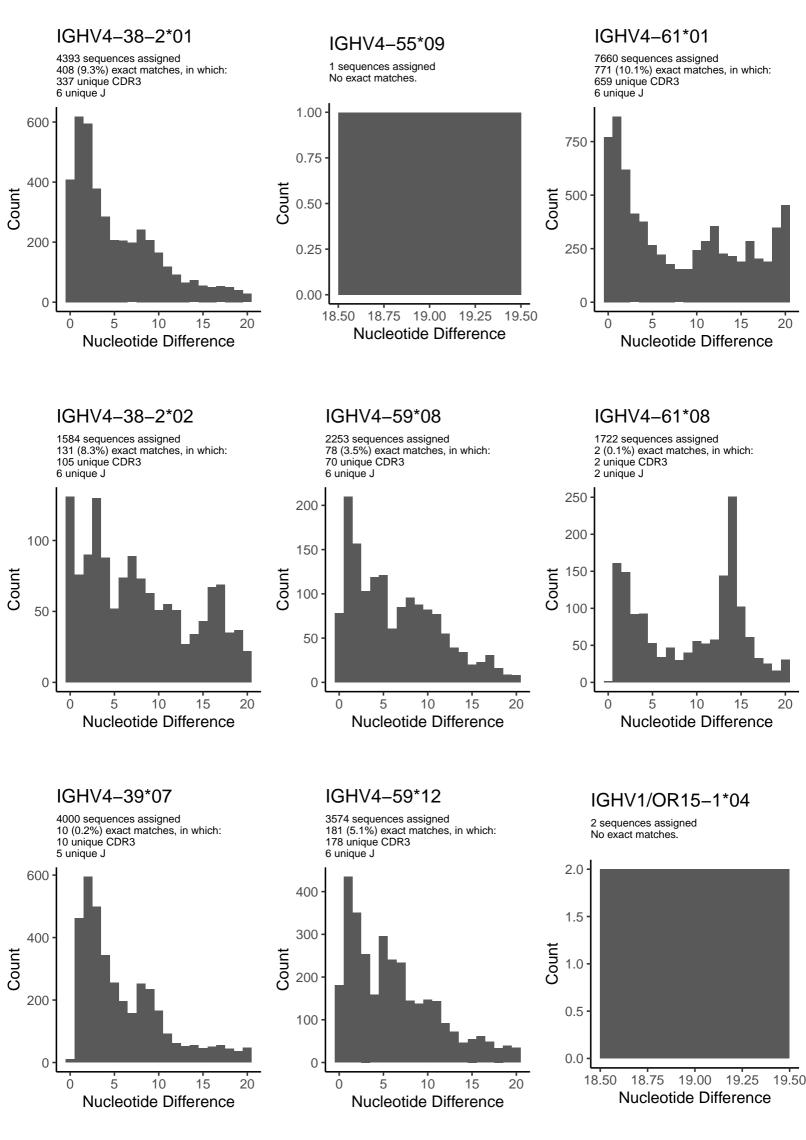


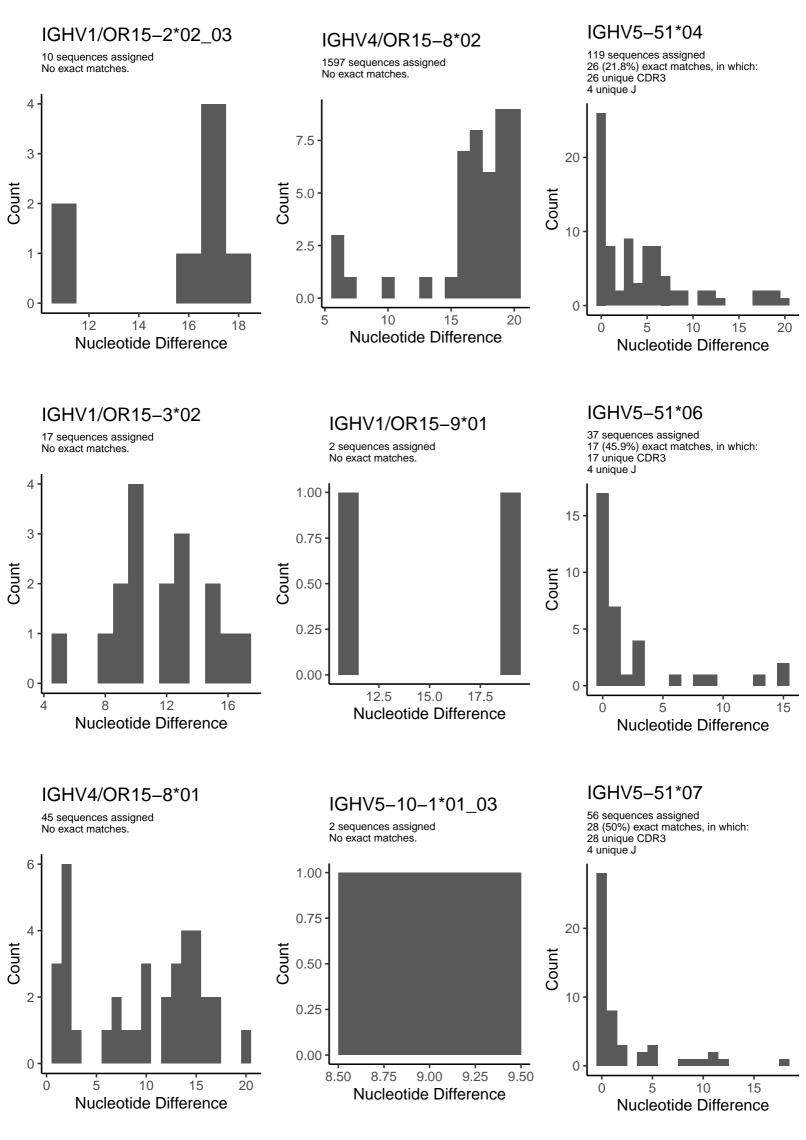
## IGHV3-43\*01 IGHV3-48\*01 IGHV3-49\*04 327 sequences assigned 33 (10.1%) exact matches, in which: 3078 sequences assigned 1587 sequences assigned 500 (16.2%) exact matches, in which: 284 (17.9%) exact matches, in which: 18 unique CDR3 167 unique CDR3 350 unique CDR3 4 unique J 6 unique J 6 unique J 500 30 400 200 300 Count Count 200 100 10 100 0 0 0 5 10 15 20 5 10 15 20 0 0 0 10 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-47\*01 IGHV3-49\*03\_05 IGHV3-48\*03 6 sequences assigned 2 (33.3%) exact matches, in which: 1 unique CDR3 1802 sequences assigned 207 (11.5%) exact matches, in which: 10544 sequences assigned 1084 (10.3%) exact matches, in which: 124 unique CDR3 667 unique CDR3 1 unique J 6 unique J 6 unique J 3 300 1000 2 Count Count 200 500 100 0 0 0 0 5 10 15 20 10 15 20 0 5 0 2 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-52\*01\_03 IGHV3-48\*04 IGHV3-47\*02 25 sequences assigned 1558 sequences assigned 1 sequences assigned 9 (36%) exact matches, in which: 28 (1.8%) exact matches, in which: No exact matches. 6 unique CDR3 28 unique CDR3 3 unique J 5 unique J 1.00 7.5 150 0.75 0.50 5.0 100 0.25 50 2.5 0.00 0 0.0 14.00 14.25 14.50 13.50 13.75 5 10 15 20 15 0 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference











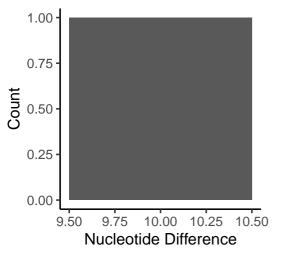
## IGHV7-4-1\*01 IGHV6-1\*01\_02 148 sequences assigned 27 (18.2%) exact matches, in which: 1374 sequences assigned 223 (16.2%) exact matches, in which: 23 unique CDR3 3 unique J 168 unique CDR3 6 unique J 60 300 40 200 Count Count 20 100 0 0 10 15 5 20 0 10 **Nucleotide Difference** Nucleotide Difference IGHV3/OR16-9\*01 IGHV7-81\*01 2 sequences assigned 1 sequences assigned No exact matches. No exact matches. 2.0 1.00 1.5 0.75 Count Count 0.25 0.5 0.00 0.0 1.50 1.75 2.00 2.25 2.50 4.25 4.50 3.50 3.75 4.00

**Nucleotide Difference** 

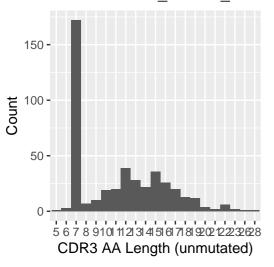
## IGHV3/OR16-13\*01

**Nucleotide Difference** 

1 sequences assigned No exact matches.



## IGHV3-74\*03\_T105G\_G156C\_T171G\_G191T\_C197G\_G198T\_G258T





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