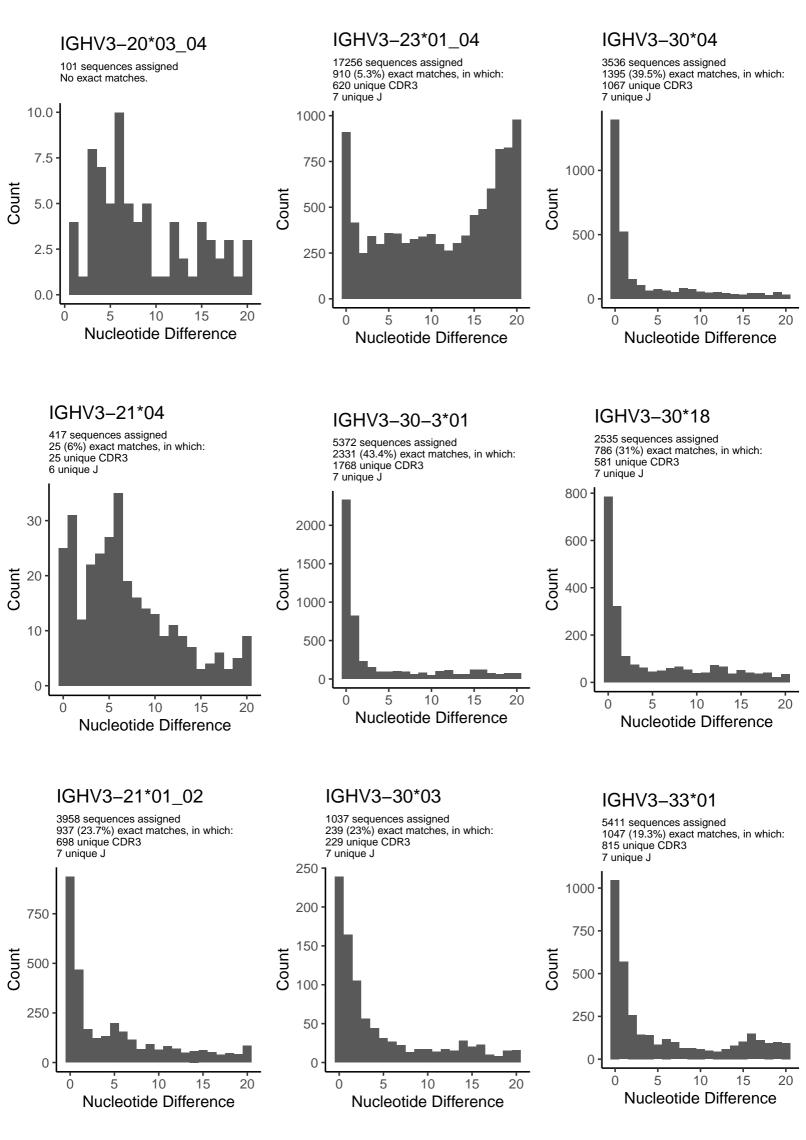
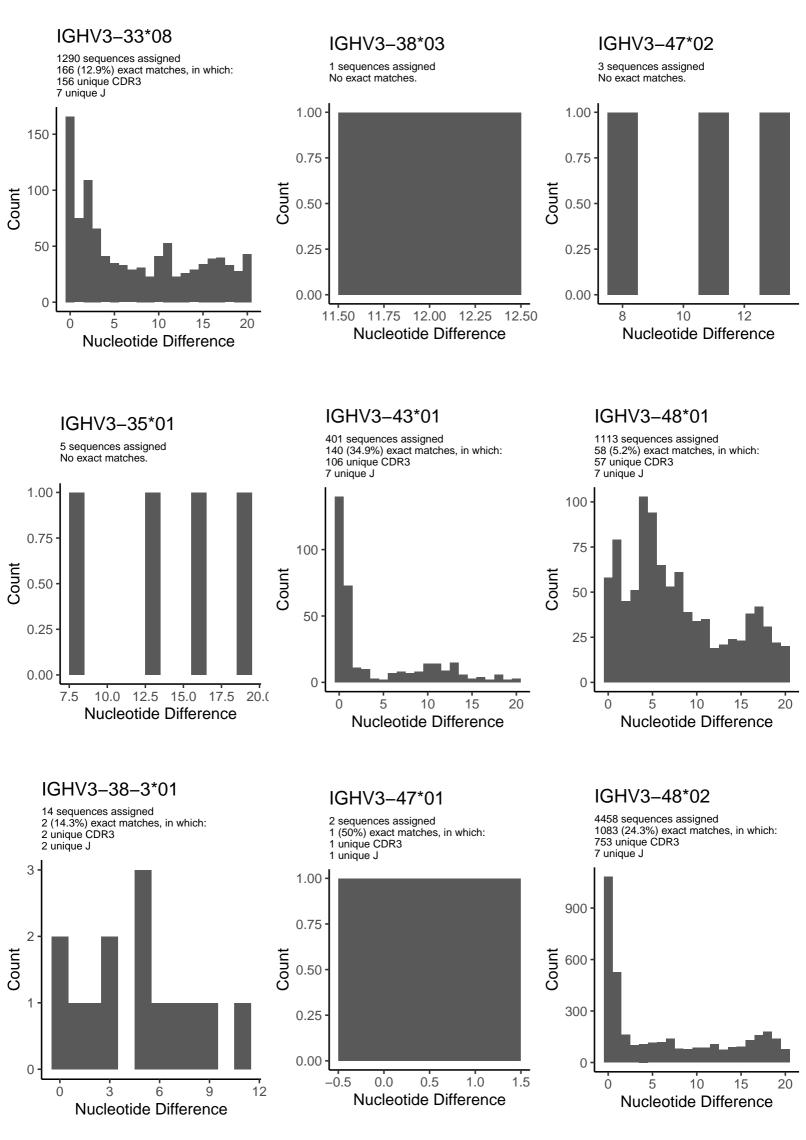
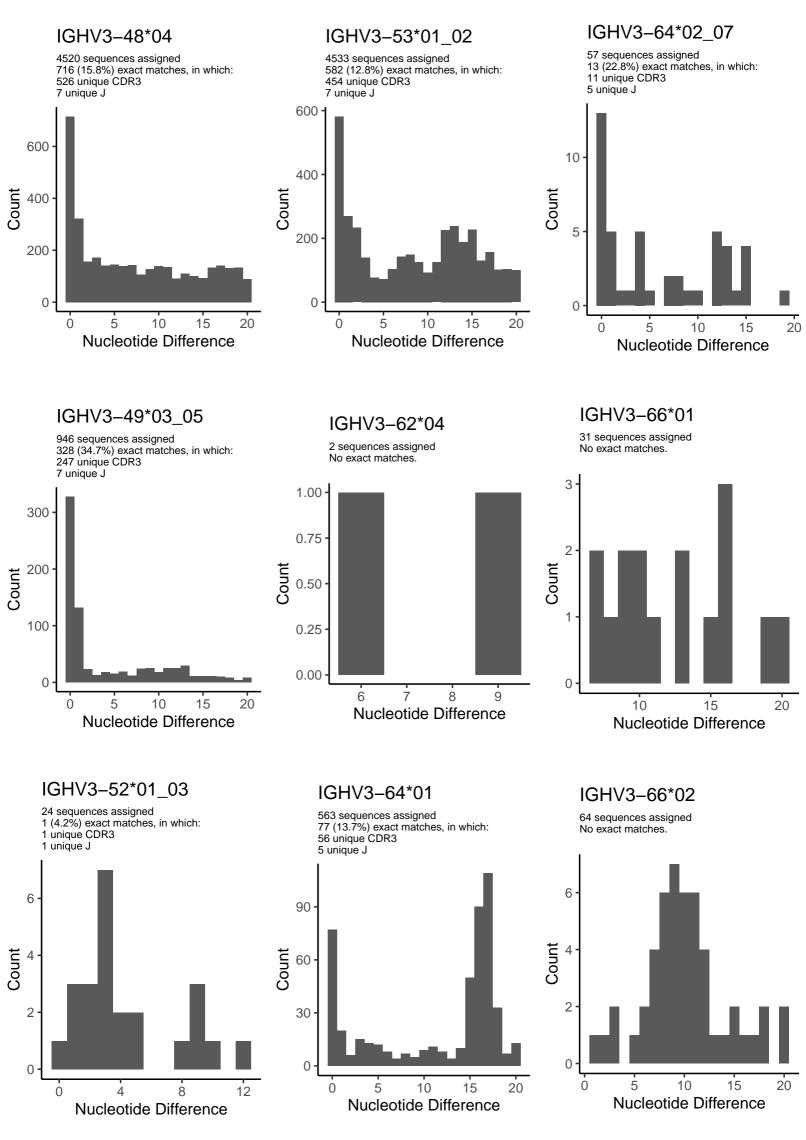
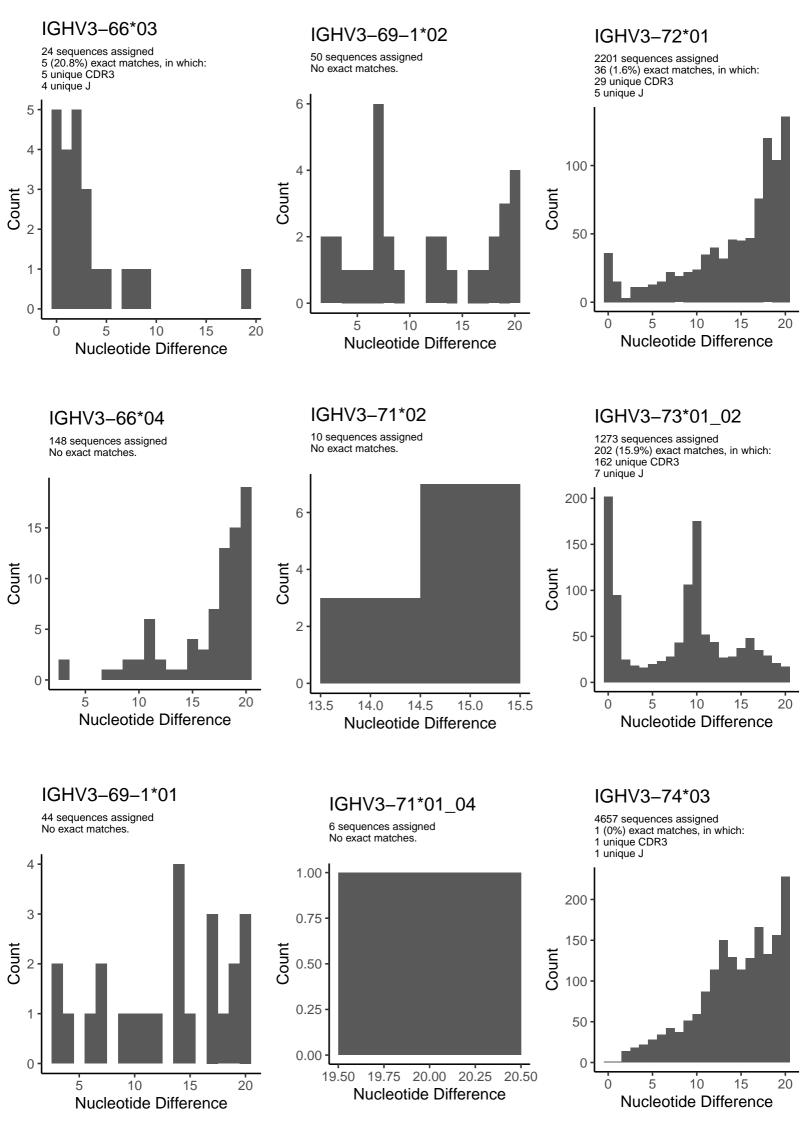


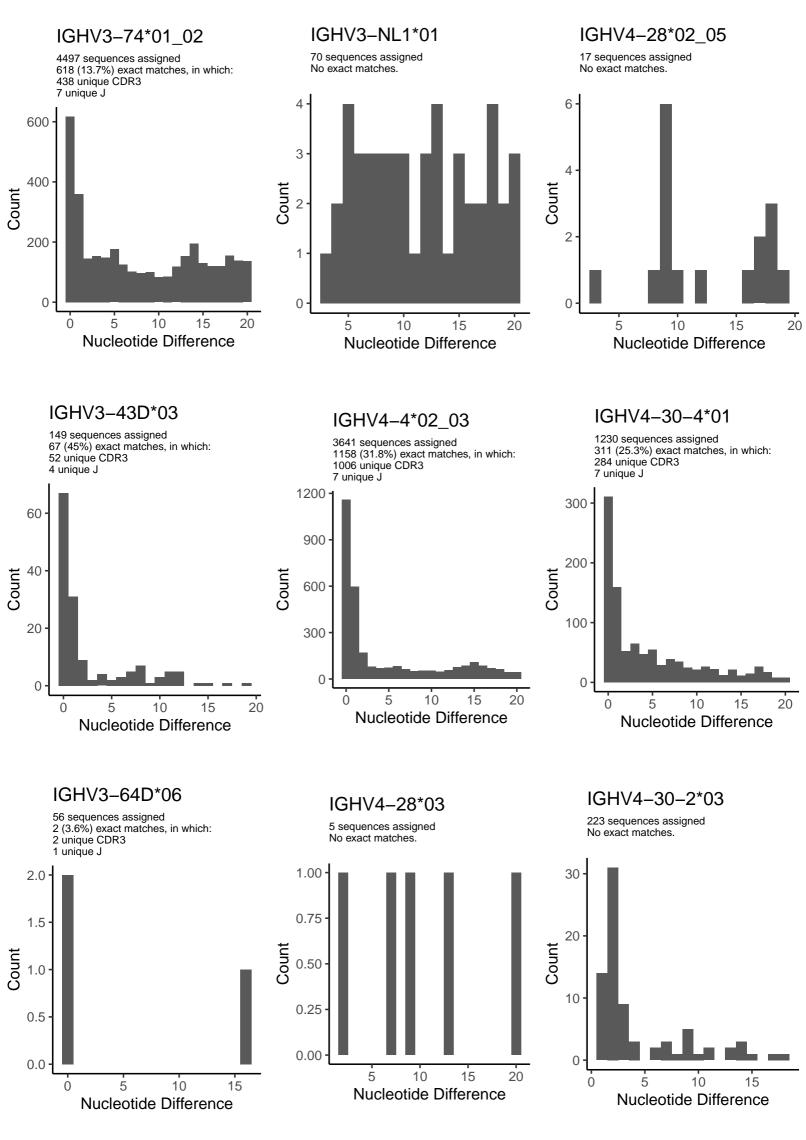
IGHV3-15*01_02 IGHV3-7*01 IGHV3-11*01 1793 sequences assigned 267 (14.9%) exact matches, in which: 1397 sequences assigned 6402 sequences assigned 465 (7.3%) exact matches, in which: 464 (33.2%) exact matches, in which: 354 unique CDR3 343 unique CDR3 195 unique CDR3 7 unique J 7 unique J 7 unique J 600 400 200 300 400 Count Count 200 100 200 100 0 0 15 5 10 20 5 10 15 20 5 10 15 20 0 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-19*01 IGHV3-11*04 IGHV3-7*04 10 sequences assigned 4 (40%) exact matches, in which: 549 sequences assigned 2982 sequences assigned 337 (11.3%) exact matches, in which: 49 (8.9%) exact matches, in which: 3 unique CDR3 49 unique CDR3 247 unique CDR3 2 unique J 5 unique J 7 unique J 300 3 40 200 Count Count 2 20 100 1 0 0 0 10 15 20 0 5 10 15 20 0 5 0.0 2.5 5.0 7.5 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV3-20*01_02 IGHV3-9*01 IGHV3-13*01 188 sequences assigned 2568 sequences assigned 1311 sequences assigned 44 (23.4%) exact matches, in which: 689 (26.8%) exact matches, in which: 95 (7.2%) exact matches, in which: 31 unique CDR3 483 unique CDR3 66 unique CDR3 5 unique J 7 unique J 7 unique J 200 40 600 150 30 400 Count Count 100 20 200 50 10 0 0 0 5 10 15 20 5 10 15 20 0 0 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

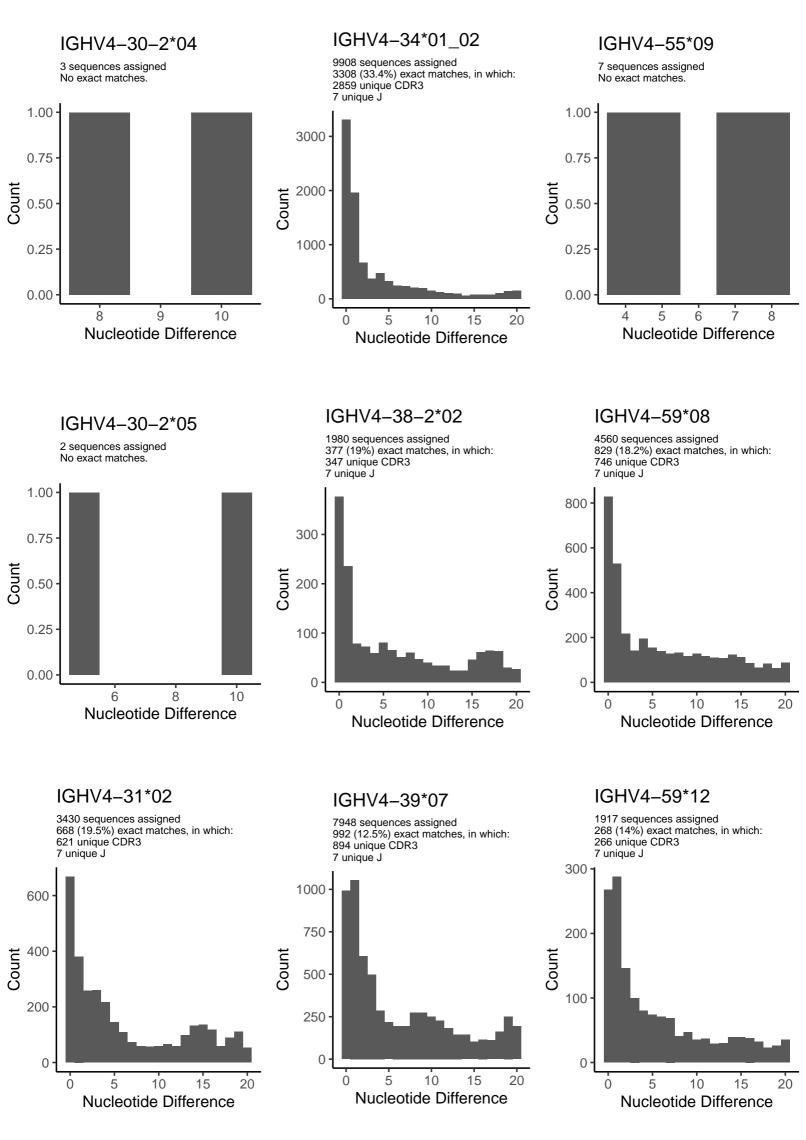


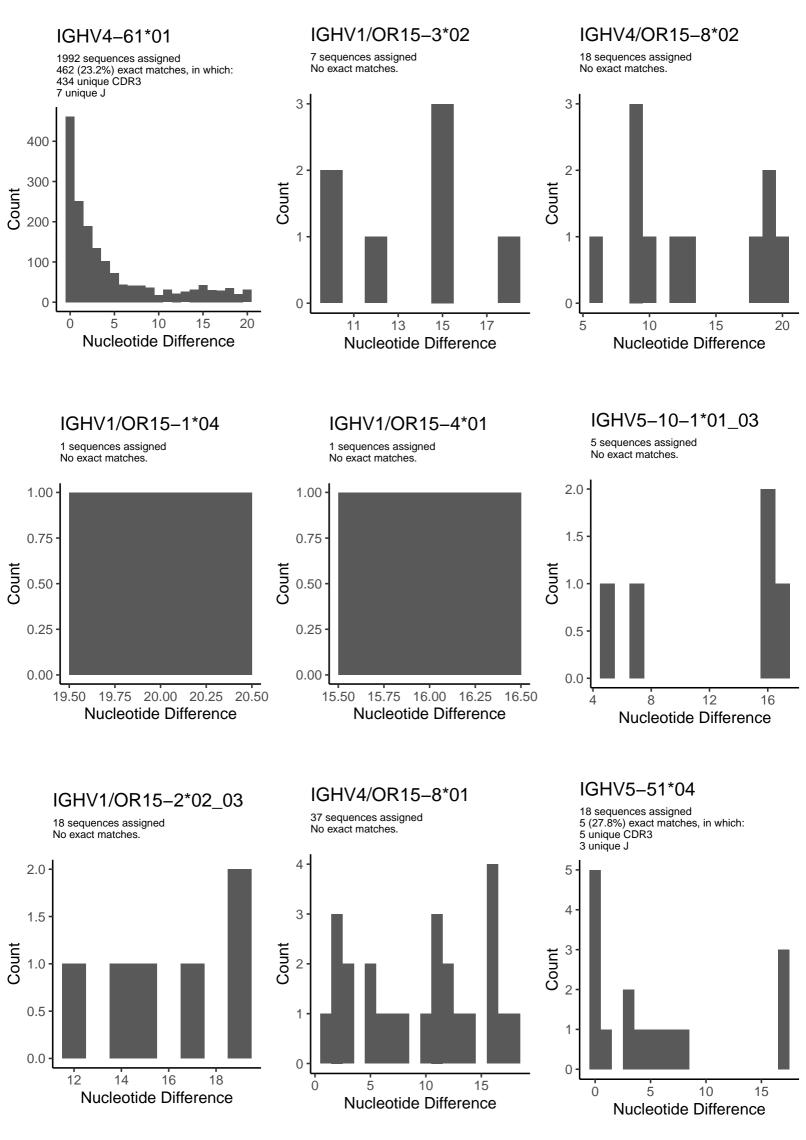












IGHV5-51*06 IGHV6-1*01_02 854 sequences assigned 155 (18.1%) exact matches, in which: 144 unique CDR3 9 sequences assigned 1 (11.1%) exact matches, in which: 1 unique CDR3 1 unique J 7 unique J 2.0 150 1.5 100 Count Count 1.0 50 0.5 0 0.0 10 15 0 5 20 0 10 15 20 5 **Nucleotide Difference Nucleotide Difference** IGHV5-51*07 IGHV7-4-1*02 11 sequences assigned 4 (36.4%) exact matches, in which: 3 unique d DR3 2498 sequences assigned 426 (17.1%) exact matches, in which: 388 unique CDR3 2 unique J 7 unique J 400 3 300 Count 2 Count 200

100

0

12

0

5

10

Nucleotide Difference

15

20

IGHV5-78*01

6

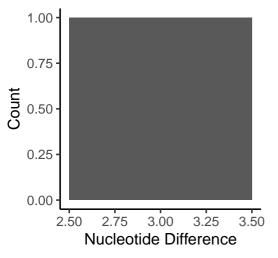
Nucleotide Difference

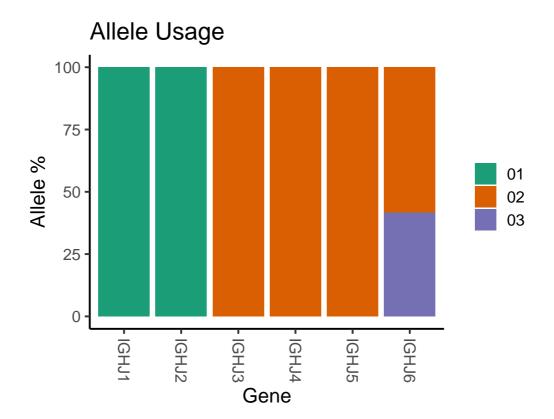
1 sequences assigned No exact matches.

1

0

0





Sequence Count by IGHJ6 allele usage

