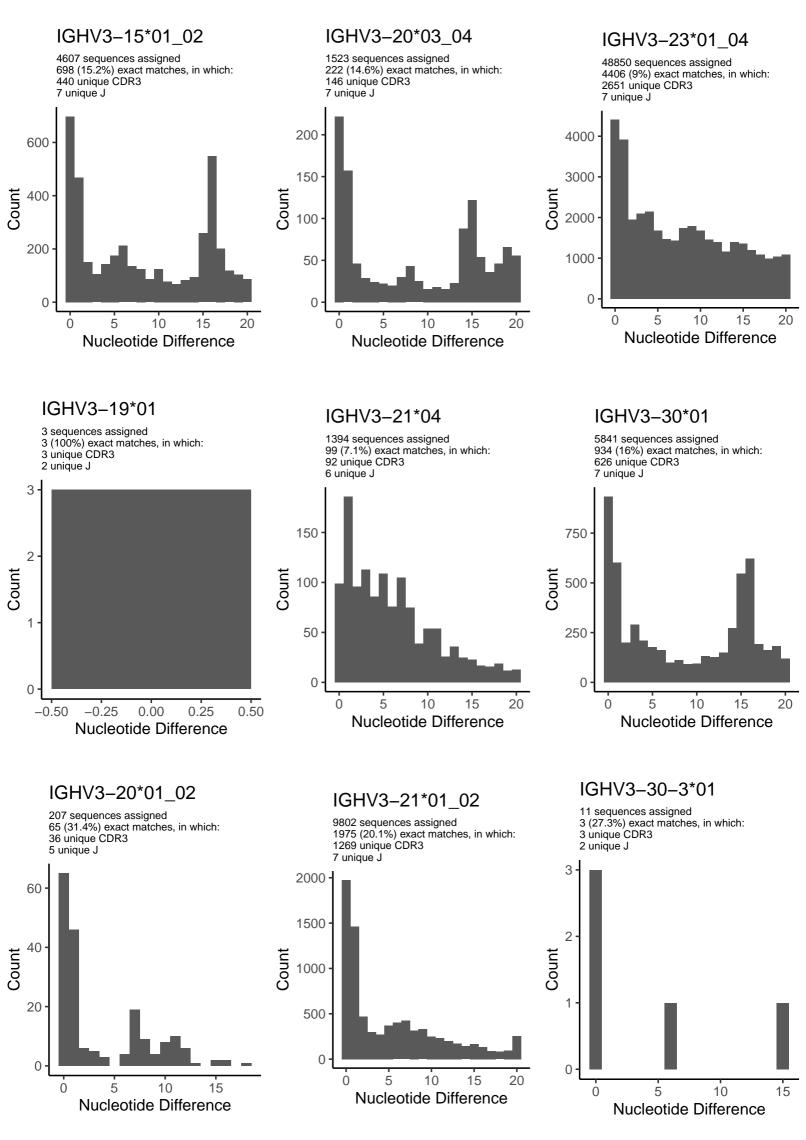
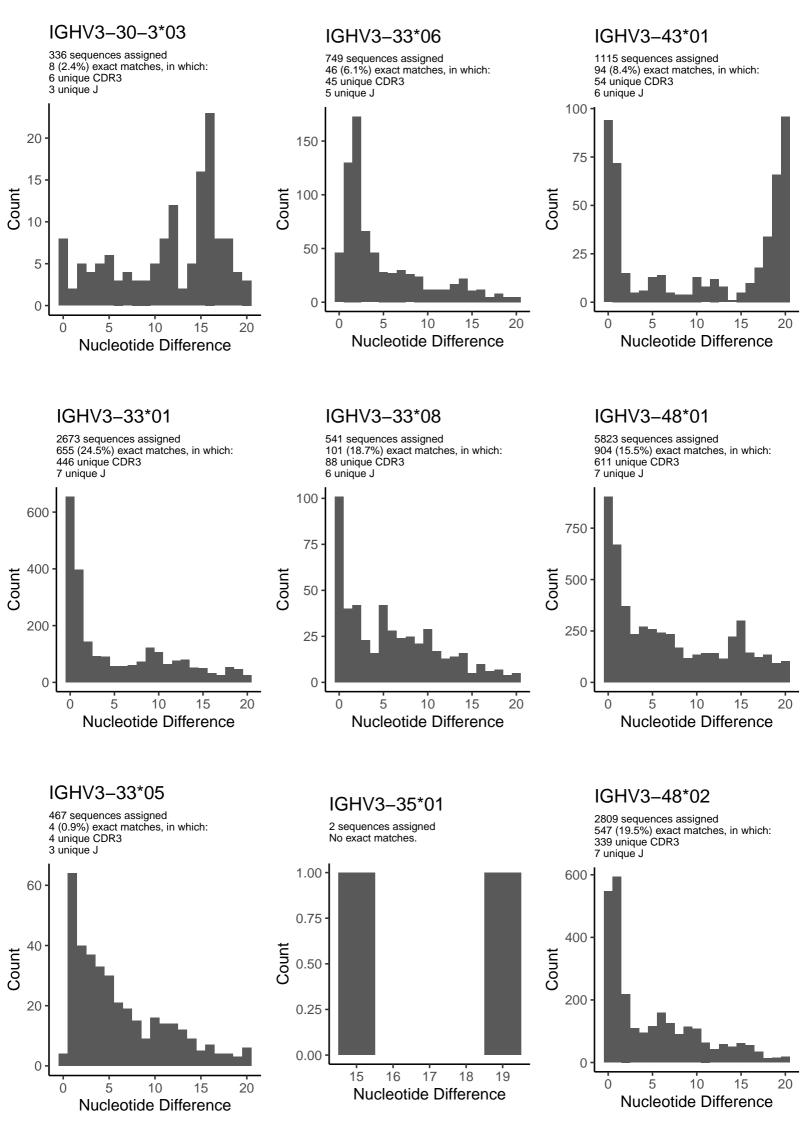
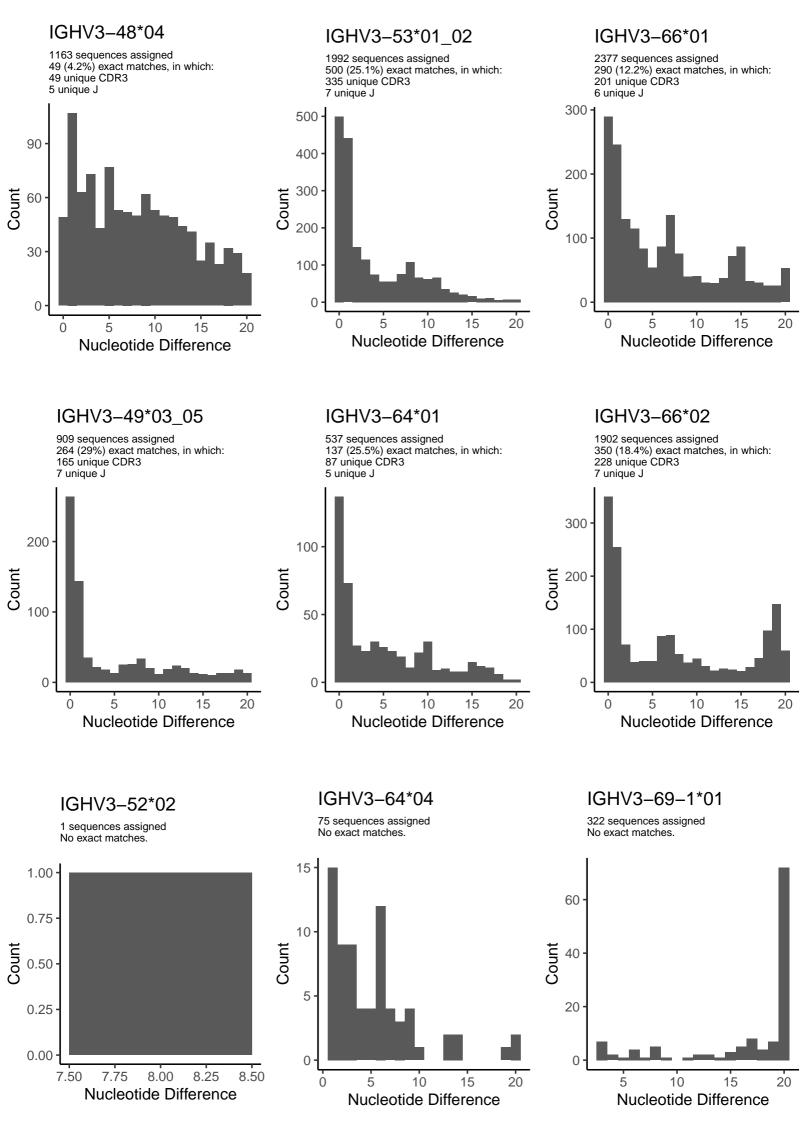
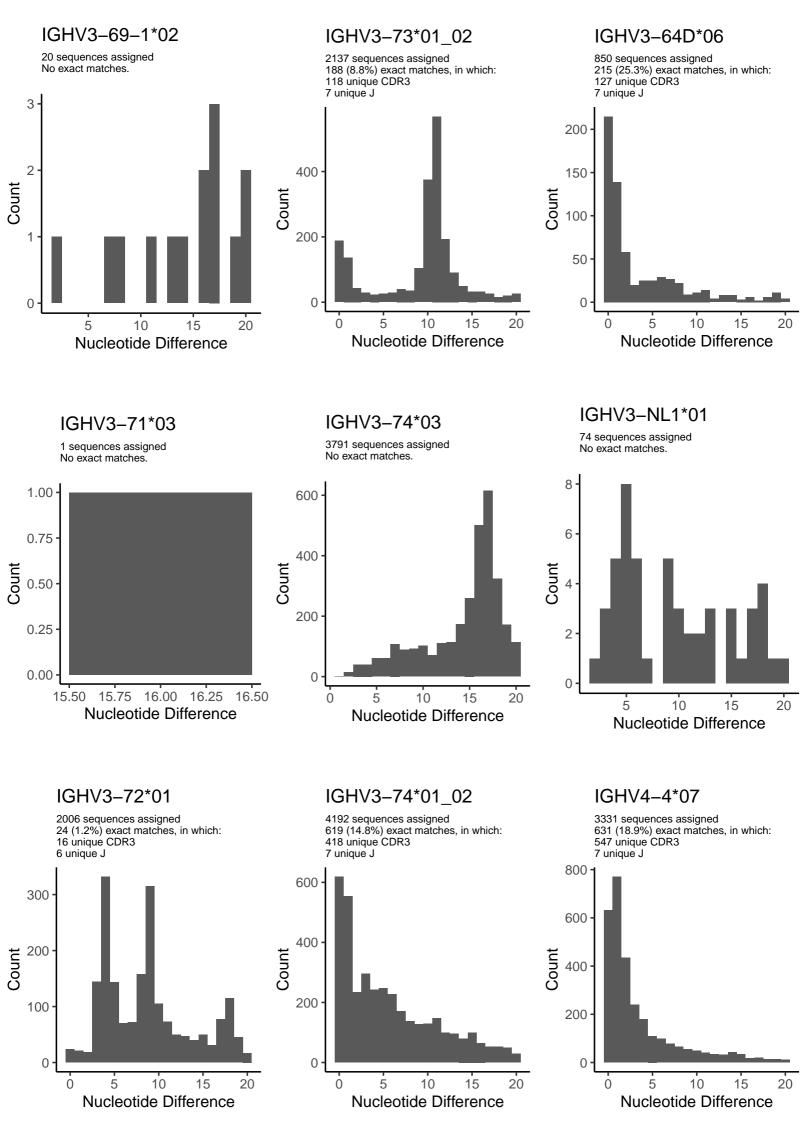


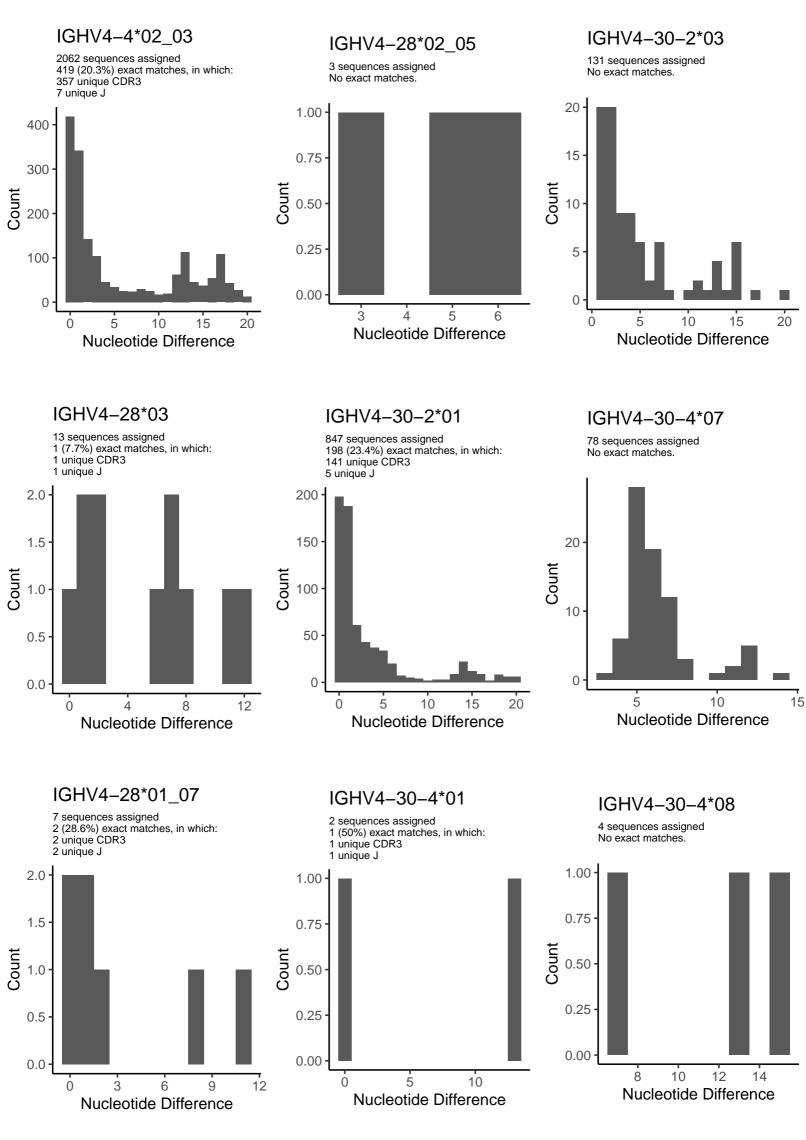
#### IGHV3-11\*06 IGHV3-7\*01 IGHV3-9\*01 562 sequences assigned 92 (16.4%) exact matches, in which: 10404 sequences assigned 3571 sequences assigned 923 (8.9%) exact matches, in which: 1045 (29.3%) exact matches, in which: 87 unique CDR3 654 unique CDR3 639 unique CDR3 7 unique J 7 unique J 7 unique J 1000 75 750 Count Count 500 50 500 250 25 250 0 0 0 0 10 15 20 15 5 10 20 0 5 20 0 10 15 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV3-7\*03 IGHV3-11\*01 IGHV3-13\*01 745 sequences assigned 185 (24.8%) exact matches, in which: 1926 sequences assigned 4609 sequences assigned 105 (5.5%) exact matches, in which: 591 (12.8%) exact matches, in which: 80 unique CDR3 412 unique CDR3 121 unique CDR3 6 unique J 6 unique J 5 unique J 600 150 150 400 Count Count 100 100 200 50 50 0 0 0 15 10 15 20 10 20 10 20 0 5 0 5 0 5 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-7\*04 IGHV3-11\*04 IGHV3-13\*04 3353 sequences assigned 970 sequences assigned 357 sequences assigned 234 (7%) exact matches, in which: 101 (10.4%) exact matches, in which: 116 (32.5%) exact matches, in which: 146 unique CDR3 99 unique CDR3 74 unique CDR3 7 unique J 6 unique J 6 unique J 300 120 100 90 75 200 Count Count 60 50 100 30 25 0 0 0 5 10 15 20 5 10 15 20 10 20 0 0 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

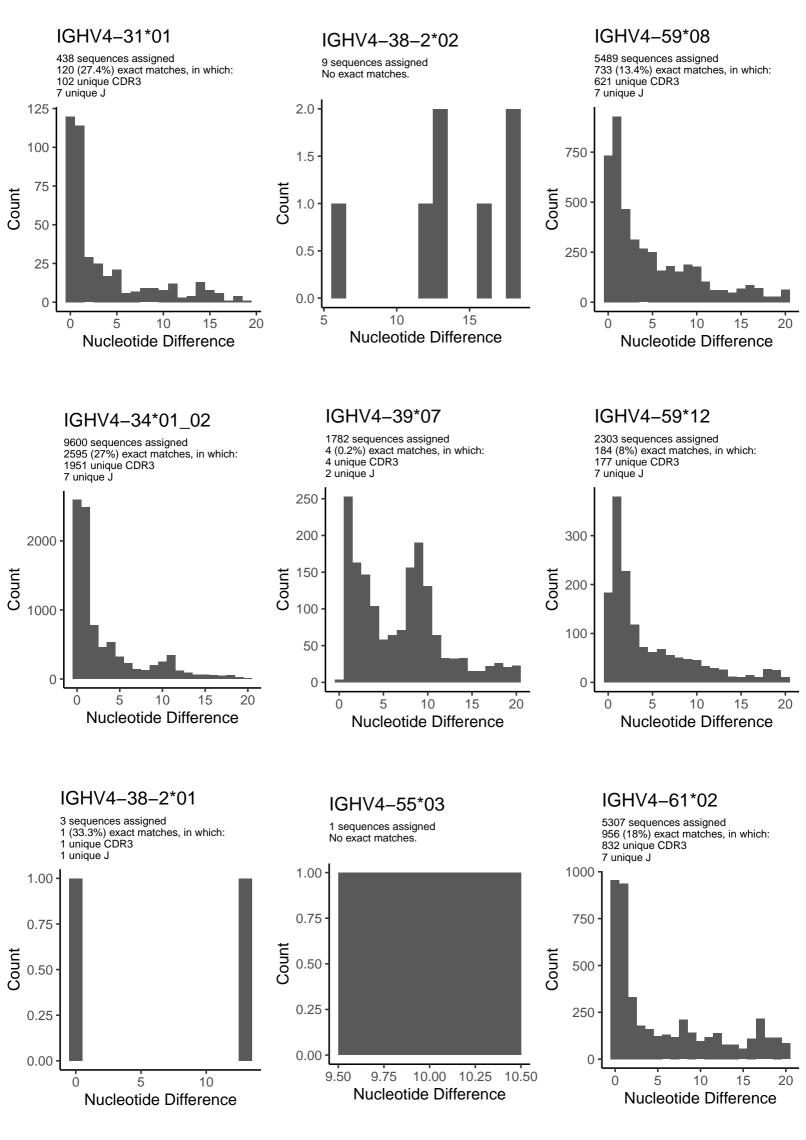


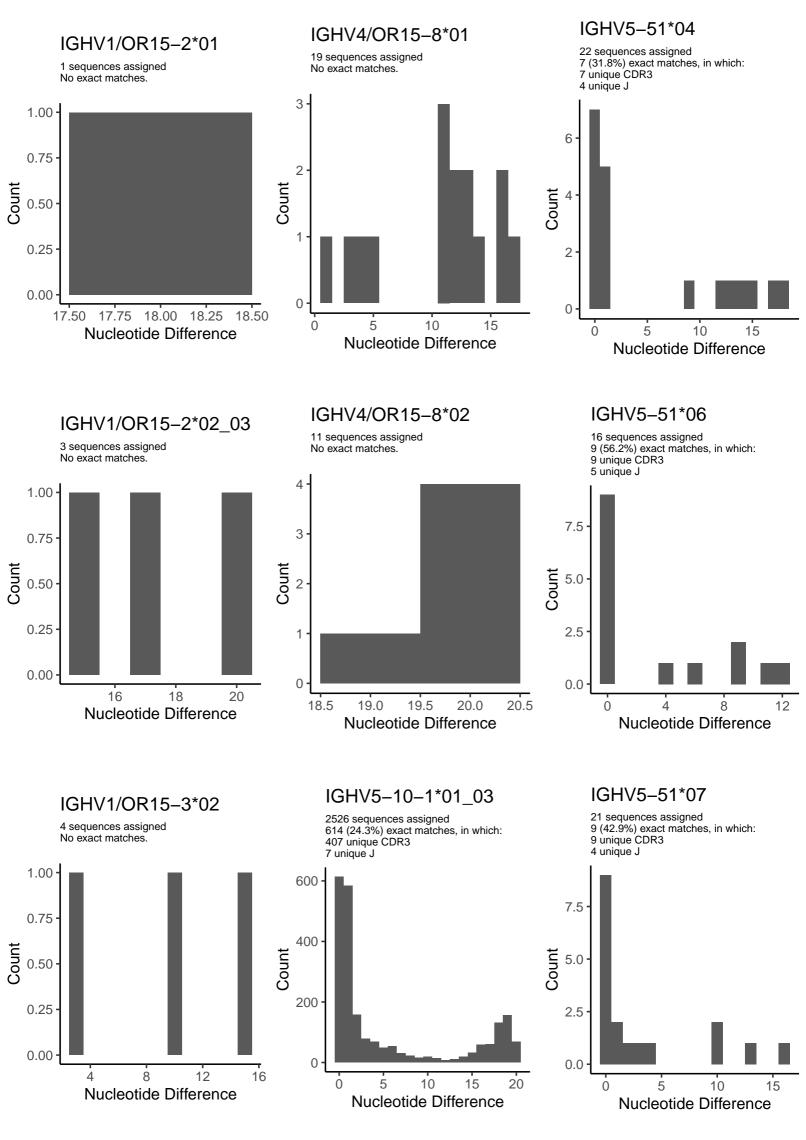






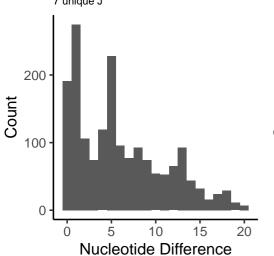






# IGHV6-1\*01\_02

1769 sequences assigned 191 (10.8%) exact matches, in which: 154 unique CDR3 7 unique J

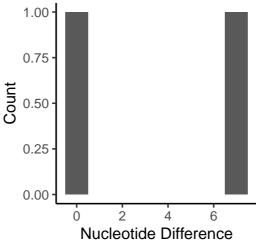


#### IGHV7-4-1\*02

2 sequences assigned 1 (50%) exact matches, in which:

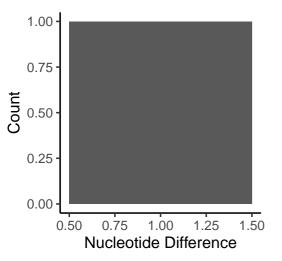
1 unique CDR3

1 unique J



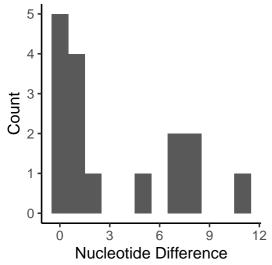
#### IGHV3/OR16-8\*01

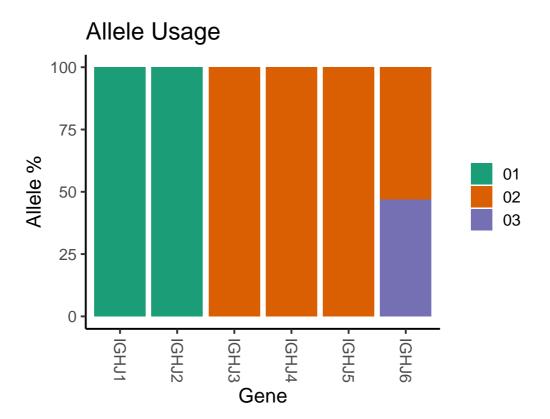
1 sequences assigned No exact matches.



### IGHV7-4-1\*01

16 sequences assigned 5 (31.2%) exact matches, in which: 5 unique CDR3 3 unique J





## Sequence Count by IGHJ6 allele usage



