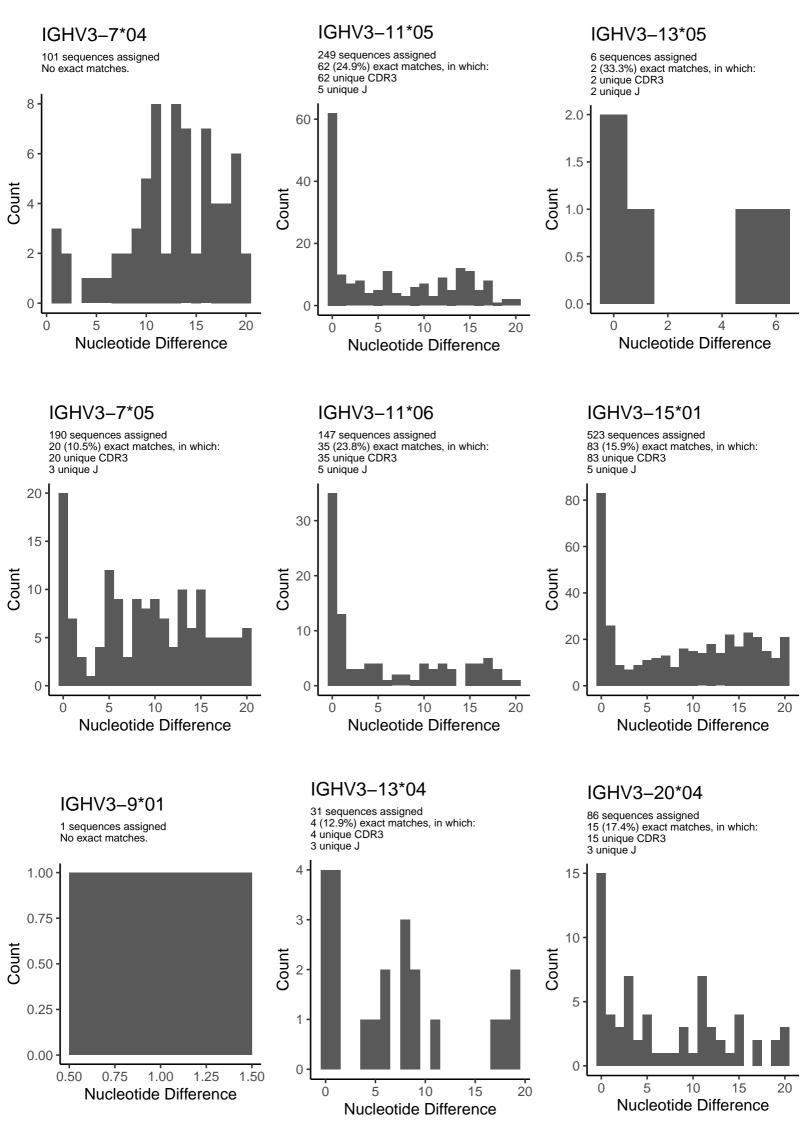
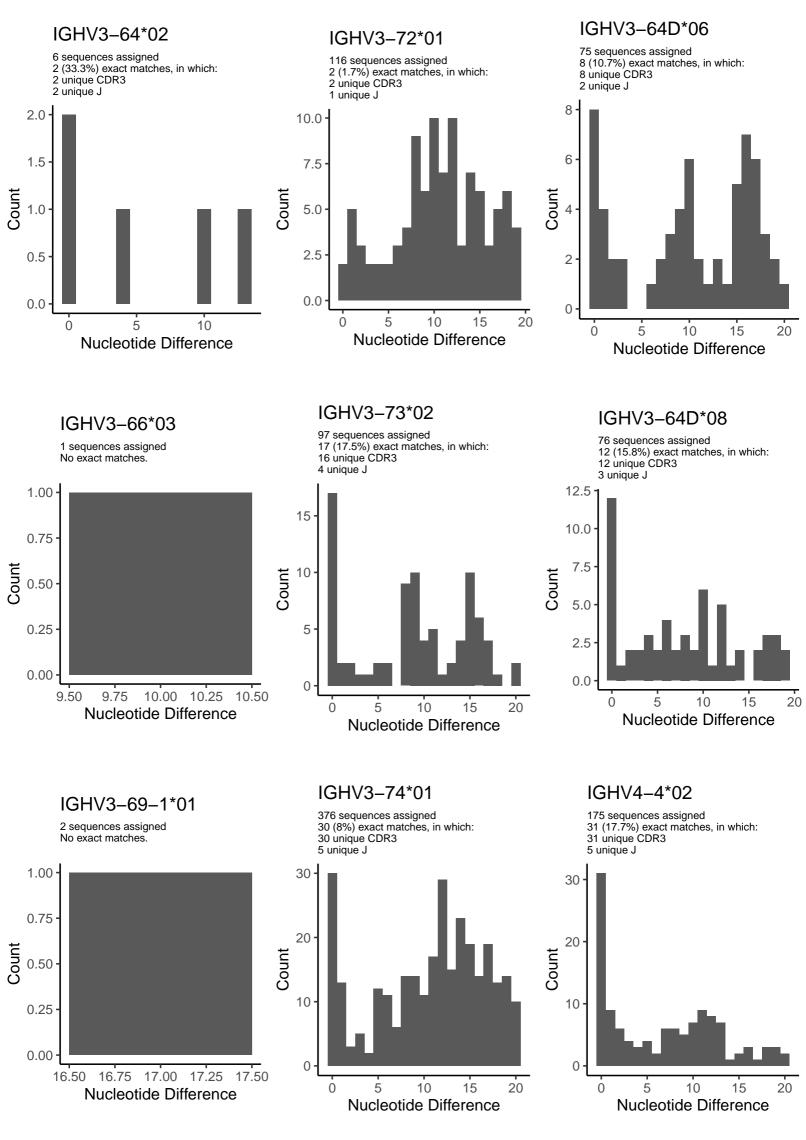
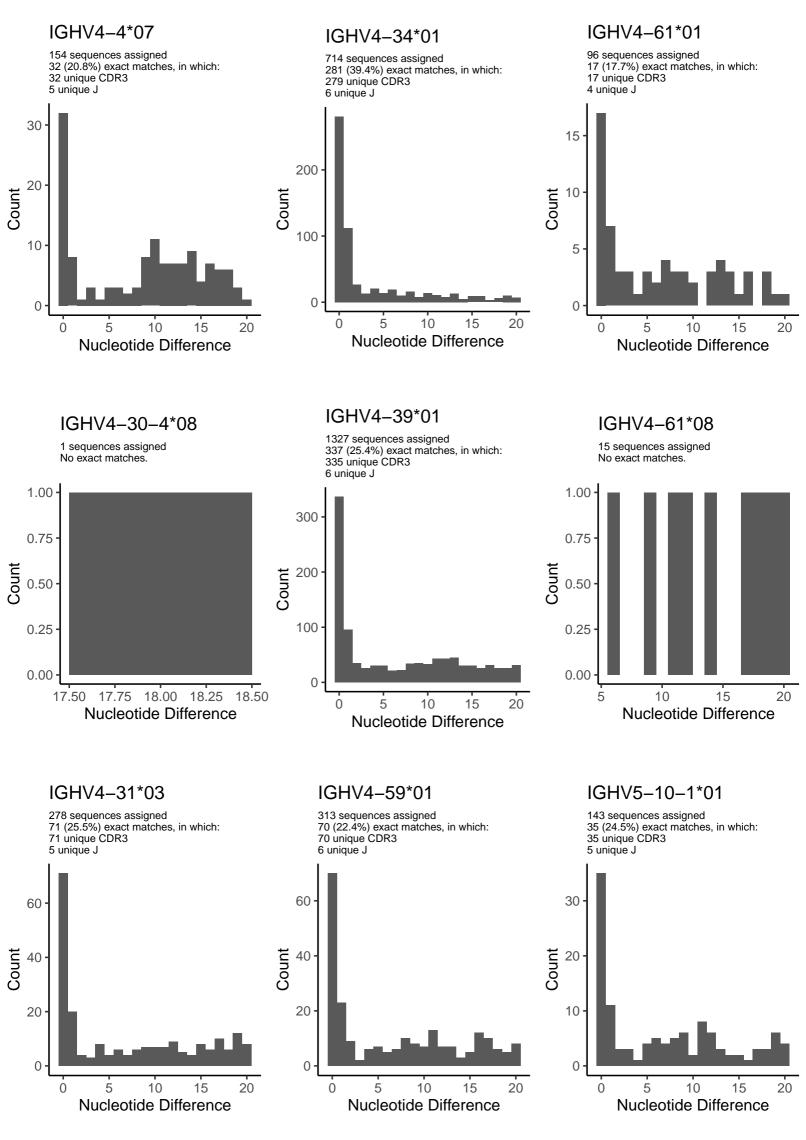


IGHV1-46*03 IGHV2-26*01 IGHV1-69*06 239 sequences assigned 60 (25.1%) exact matches, in which: 156 sequences assigned 67 (42.9%) exact matches, in which: 333 sequences assigned 141 (42.3%) exact matches, in which: 60 unique CDR3 66 unique CDR3 140 unique CDR3 5 unique J 5 unique J 6 unique J 60 100 40 40 Count Count Count 50 20 20 0 0 0 0 5 10 15 20 0 10 15 20 0 5 10 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-5*01 IGHV2-70*01 IGHV1-58*01 226 sequences assigned 39 (17.3%) exact matches, in which: 43 sequences assigned 26 sequences assigned 21 (48.8%) exact matches, in which: 10 (38.5%) exact matches, in which: 21 unique CDR3 38 unique CDR3 10 unique CDR3 5 unique J 4 unique J 3 unique J 40 10.0 20 30 7.5 15 Count Count Count 20 5.0 10 2.5 10 5 0.0 0 0 5 15 10 0 10 0 5 15 20 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV1-69-2*01 IGHV2-5*02 IGHV3-7*01 15 sequences assigned 5 (33.3%) exact matches, in which: 5 unique CDR3 218 sequences assigned 149 sequences assigned 28 (12.8%) exact matches, in which: 8 (5.4%) exact matches, in which: 28 unique CDR3 8 uniqué CDR3 3 unique J 4 unique J 6 unique J 5 12.5 4 10.0 20 7.5 3 Count Count Count 5.0 2 10 2.5 0.0 0 0 5 20 10 15 0 5 10 15 20 1.5 -0.50.0 0.5 1.0 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference



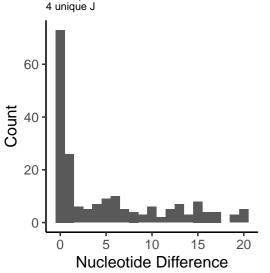
IGHV3-43*02 IGHV3-49*03 IGHV3-21*01 130 sequences assigned 20 (15.4%) exact matches, in which: 140 sequences assigned14 (10%) exact matches, in which: 886 sequences assigned 234 (26.4%) exact matches, in which: 20 unique CDR3 4 unique J 232 unique CDR3 14 unique CDR3 4 unique J 6 unique J 20 200 15 10 150 Count 10 100 5 5 50 0 0 0 5 10 15 20 0 0 10 20 5 10 20 5 15 0 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-48*01 IGHV3-49*04 IGHV3-33*01 319 sequences assigned 33 (10.3%) exact matches, in which: 166 sequences assigned 27 (16.3%) exact matches, in which: 885 sequences assigned 137 (15.5%) exact matches, in which: 32 unique CDR3 27 unique CDR3 137 unique CDR3 5 unique J 3 unique J 6 unique J 30 20 100 20 Count Count Count 10 50 10 0 0 0 10 15 20 0 5 10 15 20 10 15 20 0 5 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-53*04 IGHV3-48*03 IGHV3-35*01 32 sequences assigned 381 sequences assigned 1 sequences assigned 6 (18.8%) exact matches, in which: 6 unique CDR3 65 (17.1%) exact matches, in which: 1 (100%) exact matches, in which: 65 unique CDR3 1 unique CDR3 4 unique J 4 unique J 1 unique J 1.00 60 0.75 40 Count 0.50 Count Count 2 20 0.25 0.00 0 0 -0.250.00 0.25 0.50 -0.500 5 10 15 20 20 0 5 10 15 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference





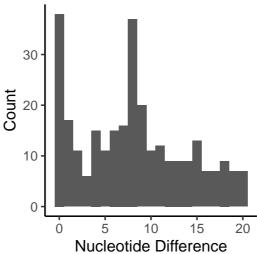
IGHV5-10-1*03

231 sequences assigned 73 (31.6%) exact matches, in which: 73 unique CDR3



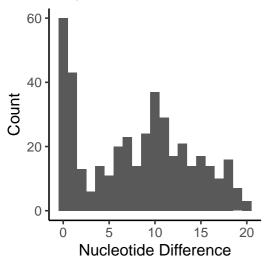
IGHV6-1*01

313 sequences assigned 38 (12.1%) exact matches, in which: 34 unique CDR3 5 unique J



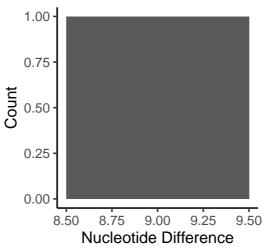
IGHV5-51*01

506 sequences assigned 60 (11.9%) exact matches, in which: 60 unique CDR3 6 unique J



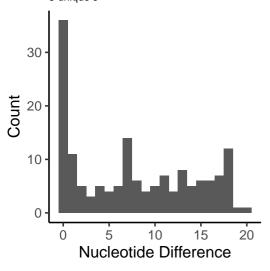
IGHV3/OR16-9*01

1 sequences assigned No exact matches.



IGHV5-51*03

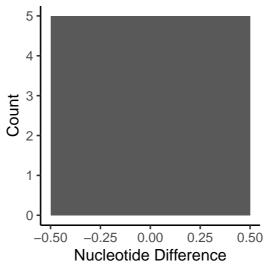
184 sequences assigned 36 (19.6%) exact matches, in which: 36 unique CDR3 5 unique J



IGHV7-4-1*01

5 sequences assigned 5 (100%) exact matches, in which: 5 unique CDR3

3 unique J





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