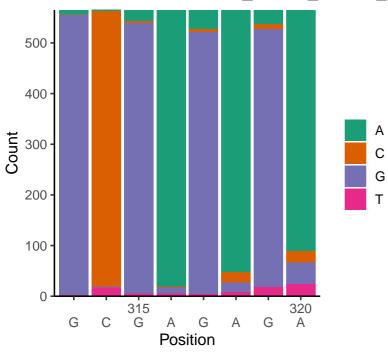
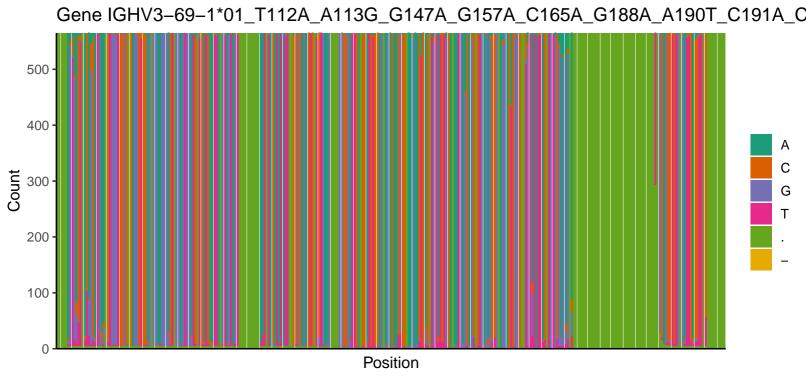
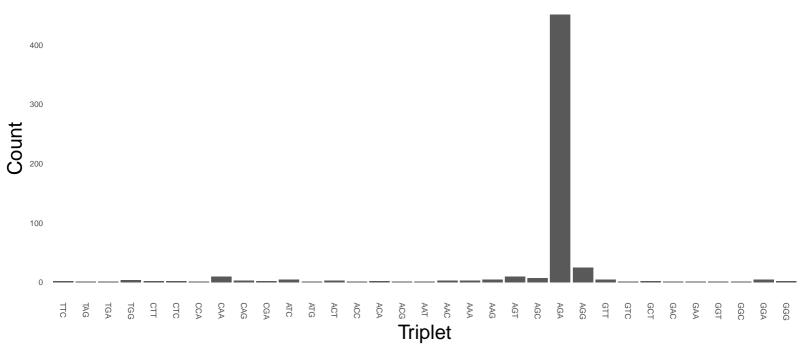
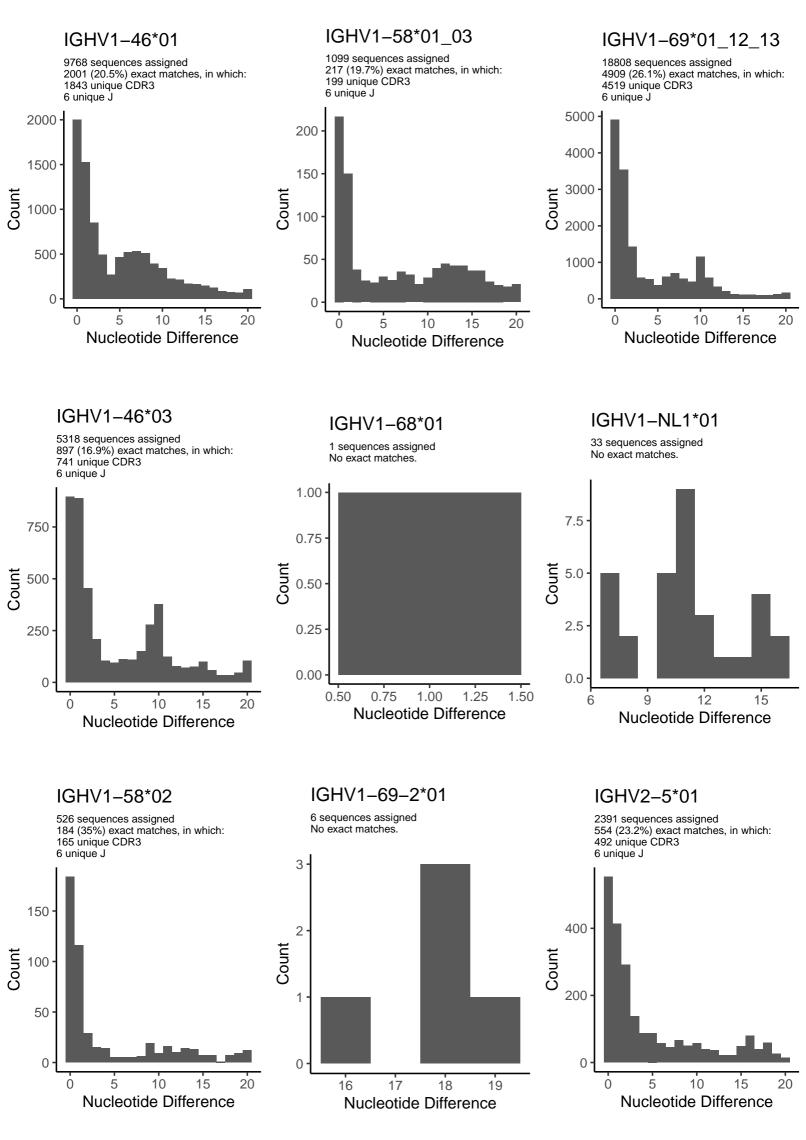
Gene IGHV3-69-1*01_T112A_A113G_G147A_G157A_C165A_G188A_A190T_C191A_C

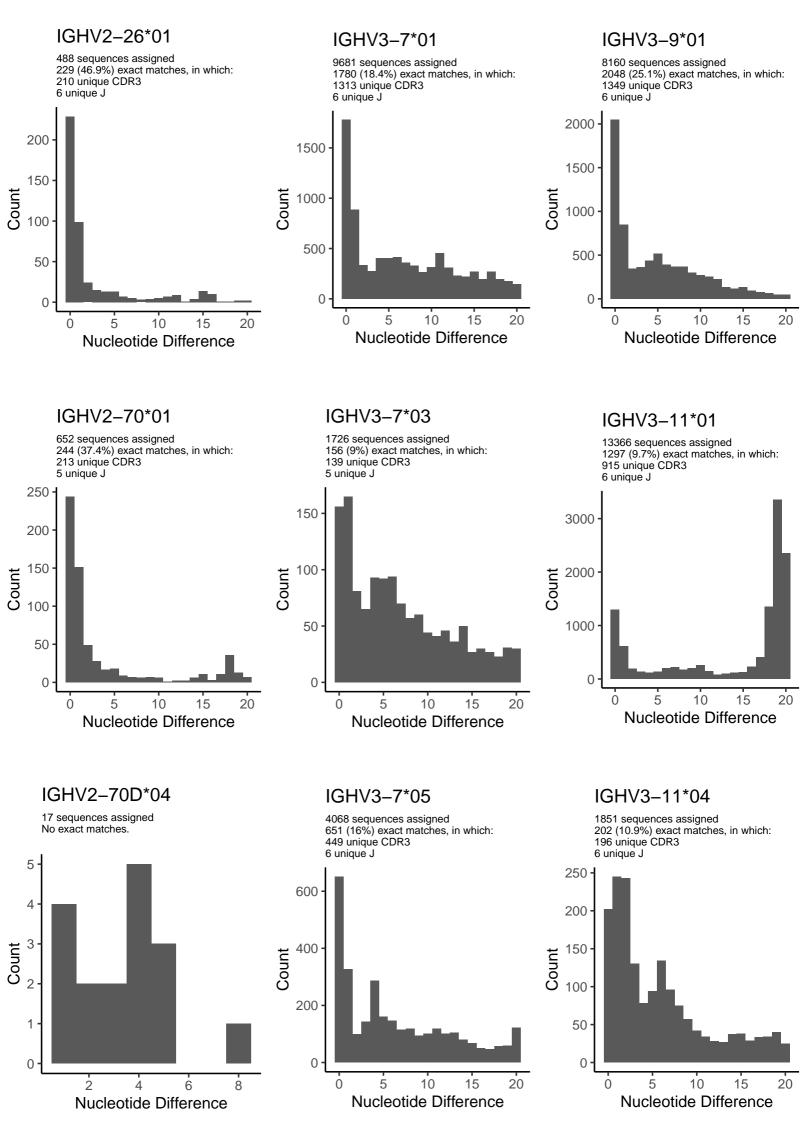


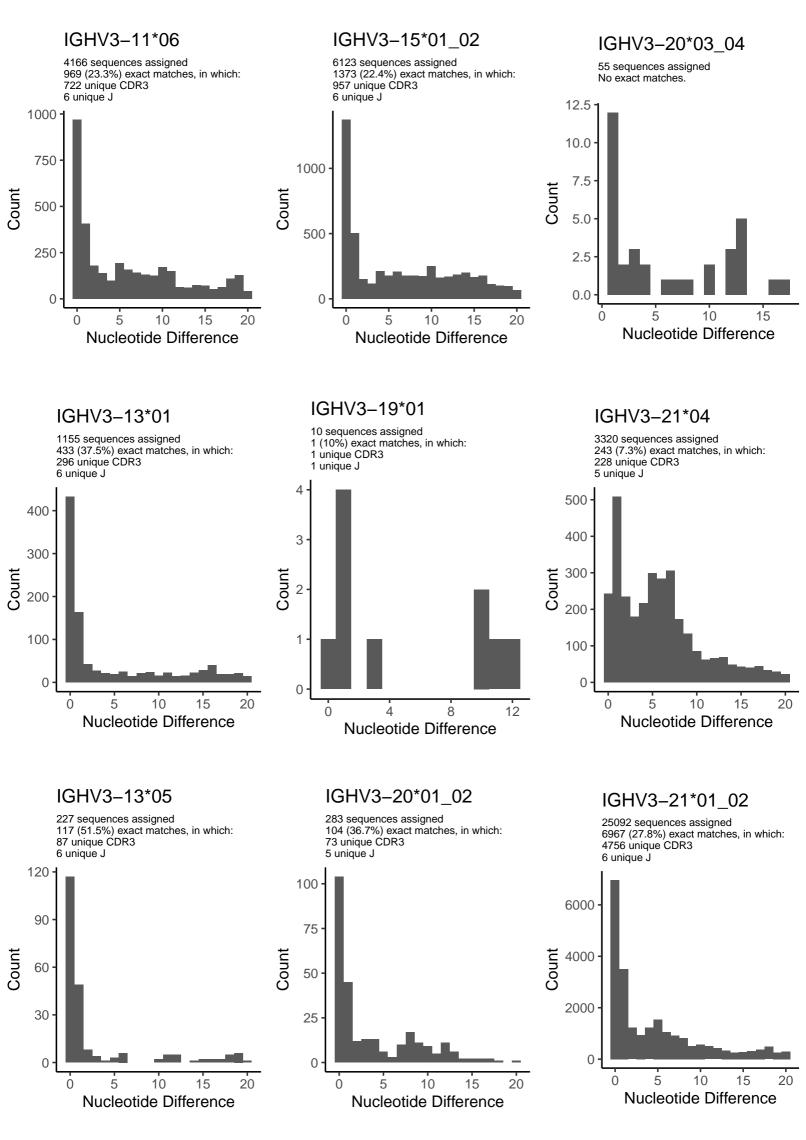


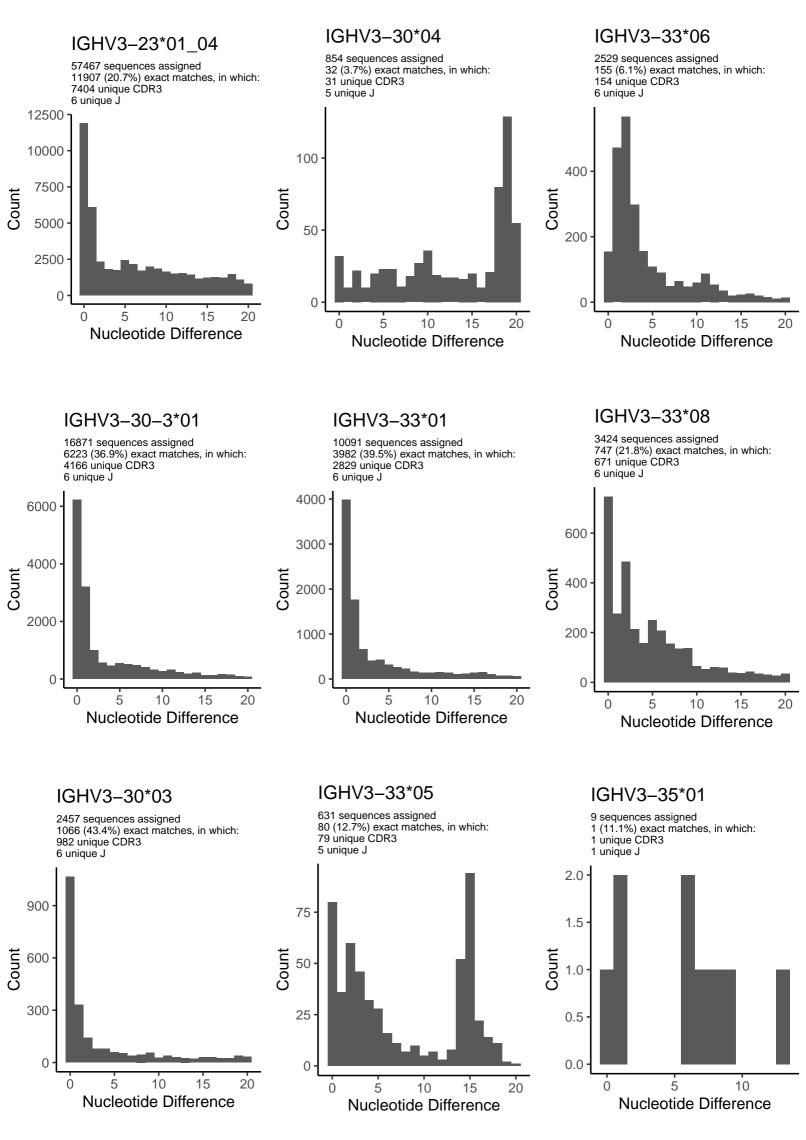


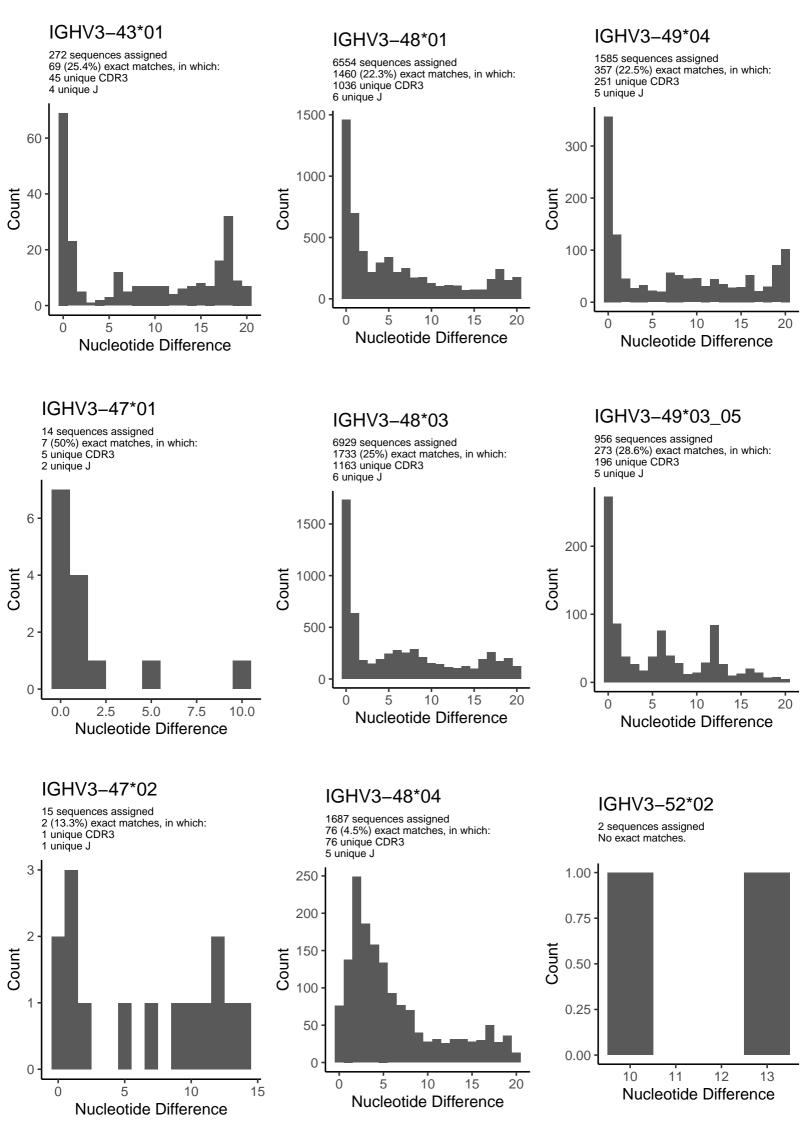
IGHV1-2*02 IGHV1-8*01 IGHV1-18*04 25766 sequences assigned 4258 (16.5%) exact matches, in which: 16183 sequences assigned 3922 (24.2%) exact matches, in which: 9811 sequences assigned 3105 (31.6%) exact matches, in which: 3744 unique CDR3 2779 unique CDR3 3531 unique CDR3 6 unique J 6 unique J 6 unique J 4000 3000 4000 3000 3000 2000 Count Count 2000 2000 1000 1000 1000 0 0 0 10 0 15 20 0 10 15 20 0 10 15 Nucleotide Difference **Nucleotide Difference Nucleotide Difference** IGHV1-8*02 IGHV1-2*04 IGHV1-24*01 3186 sequences assigned 22 (0.7%) exact matches, in which: 6196 sequences assigned 1974 (31.9%) exact matches, in which: 4121 sequences assigned 1275 (30.9%) exact matches, in which: 22 unique CDR3 1778 unique CDR3 1162 unique CDR3 5 unique J 6 unique J 6 unique J 2000 600 1000 1500 Count Count 400 1000 500 200 500 0 10 20 0 10 0 10 15 20 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-45*02 IGHV1-3*01_05 IGHV1-18*01 98 sequences assigned 19425 sequences assigned 4610 (23.7%) exact matches, in which: 6684 sequences assigned 1292 (19.3%) exact matches, in which: 16 (16.3%) exact matches, in which: 14 unique CDR3 1141 unique CDR3 4124 unique CDR3 4 unique J 6 unique J 6 unique J 15 4000 1000 3000 Count Count 2000 500 5 1000 0 0 0 10 0 10 15 20 15 20 0 5 10 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference

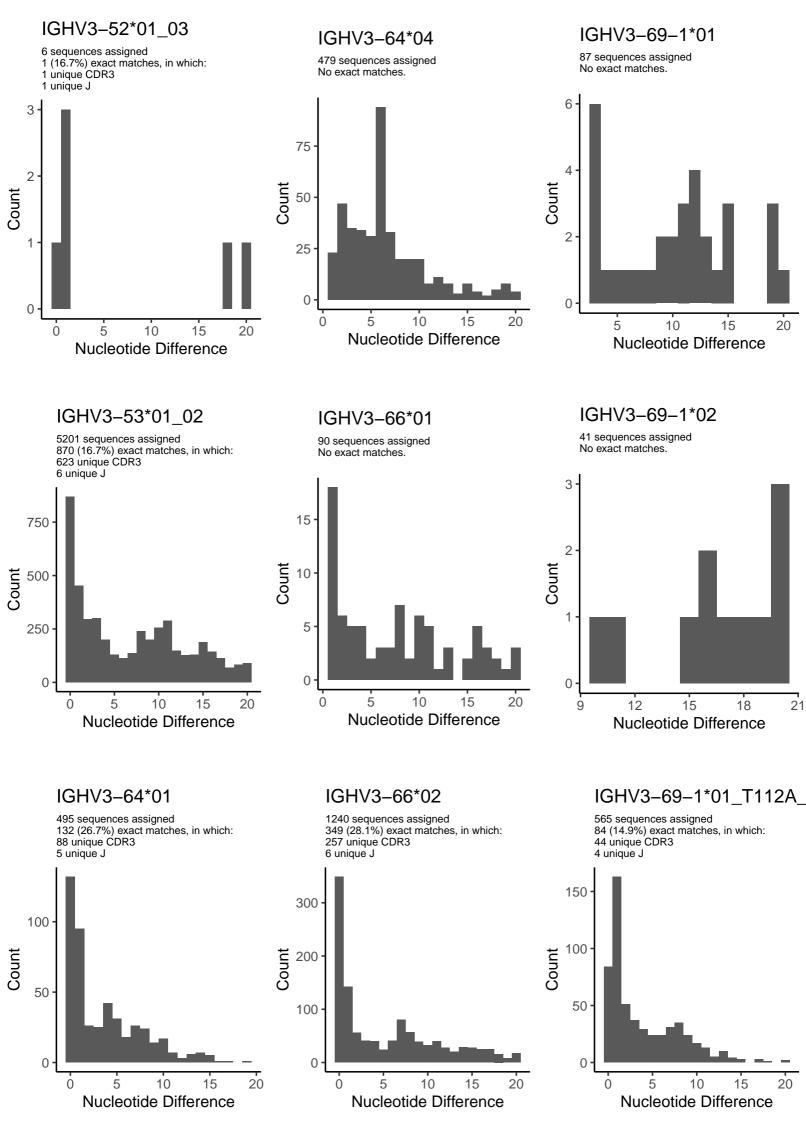


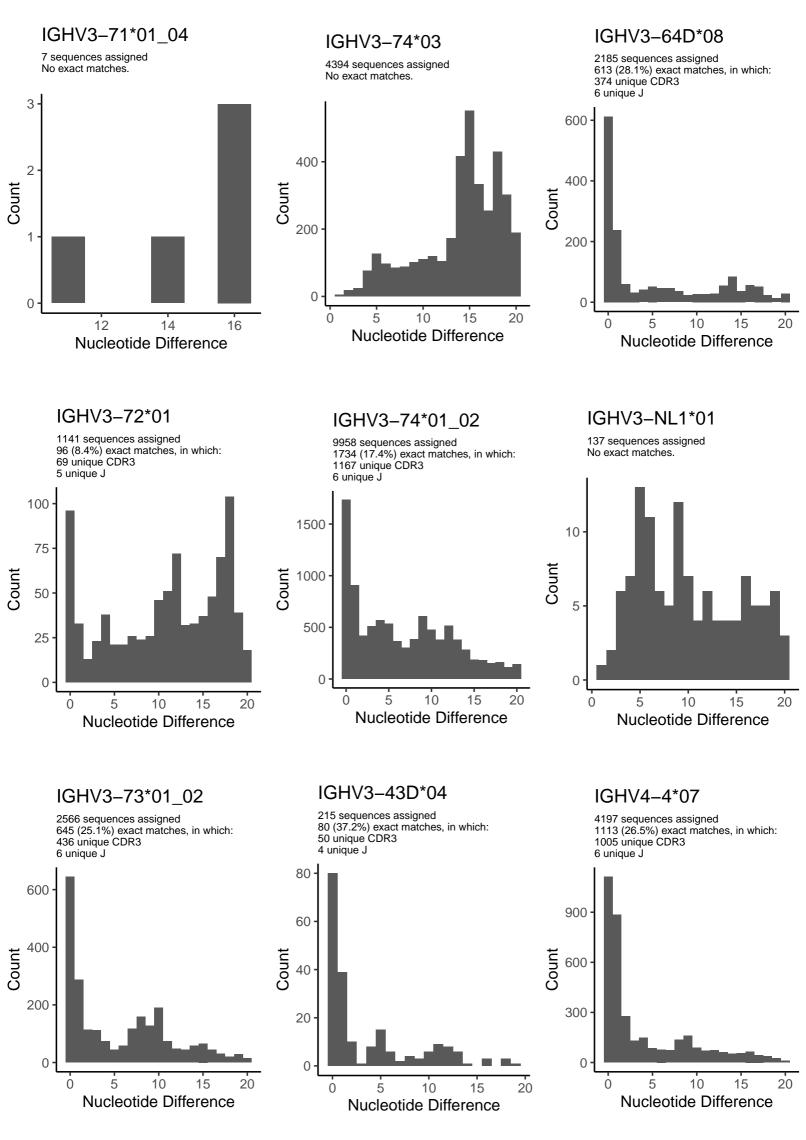


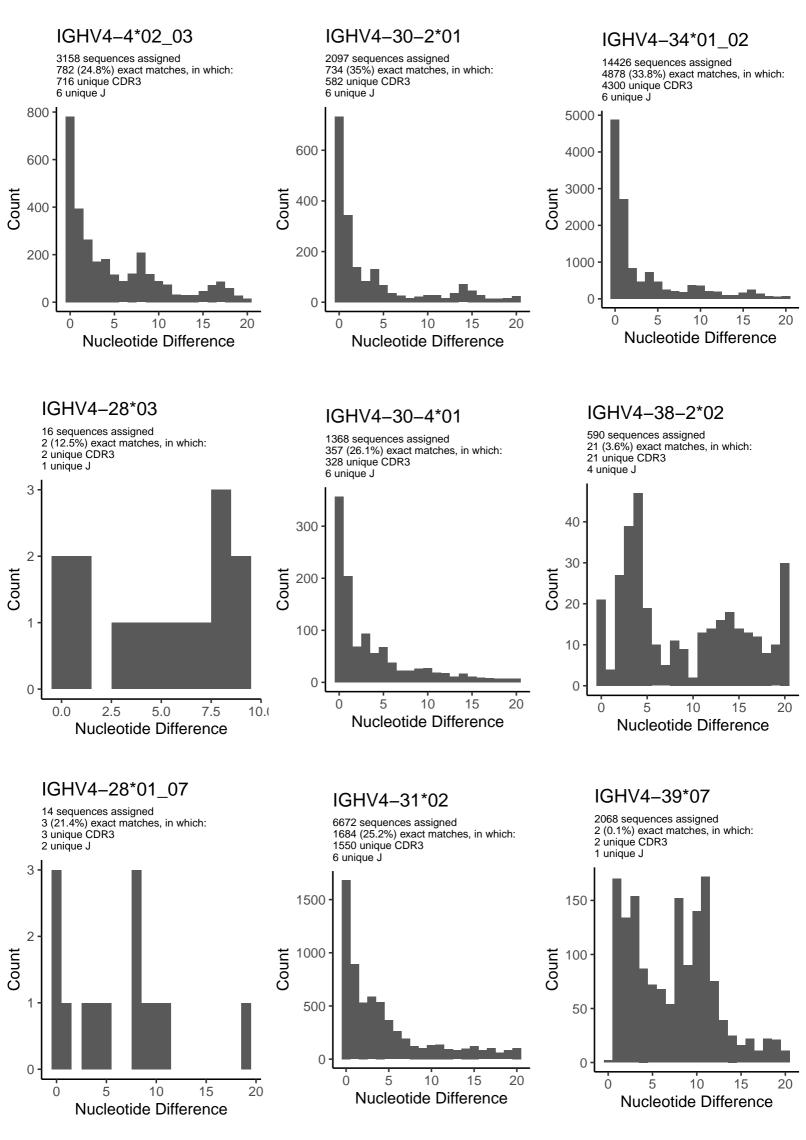


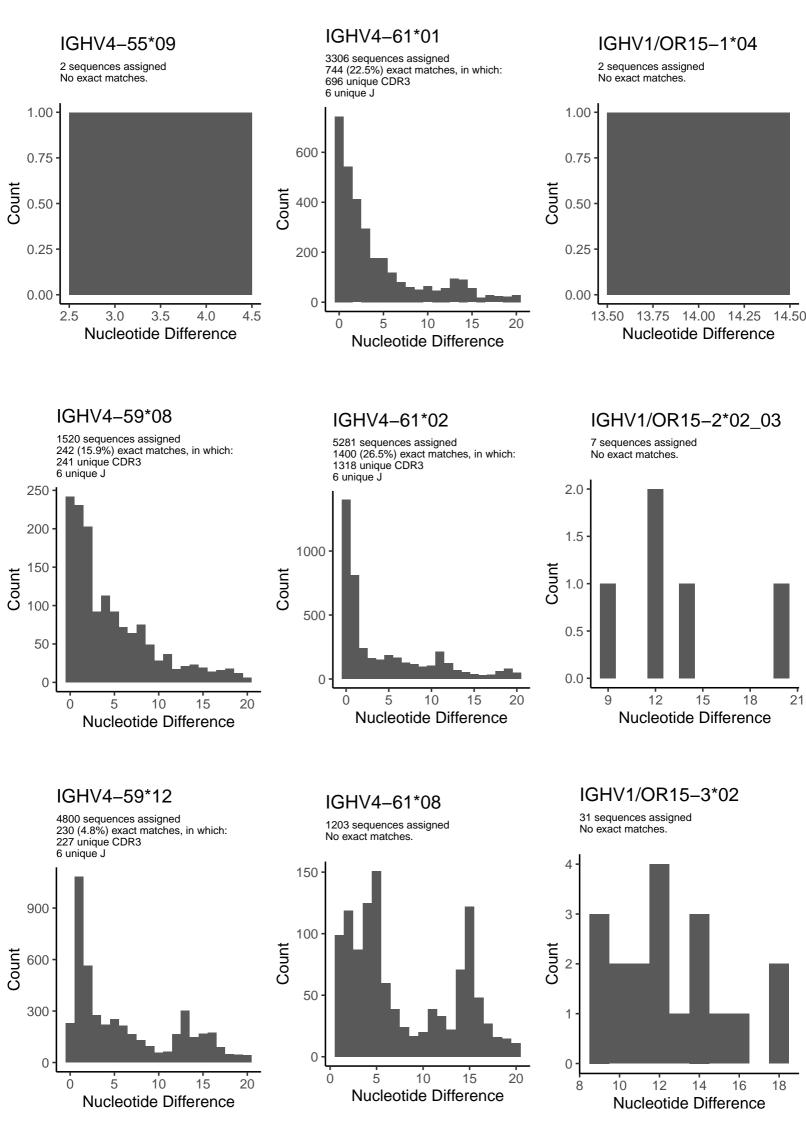


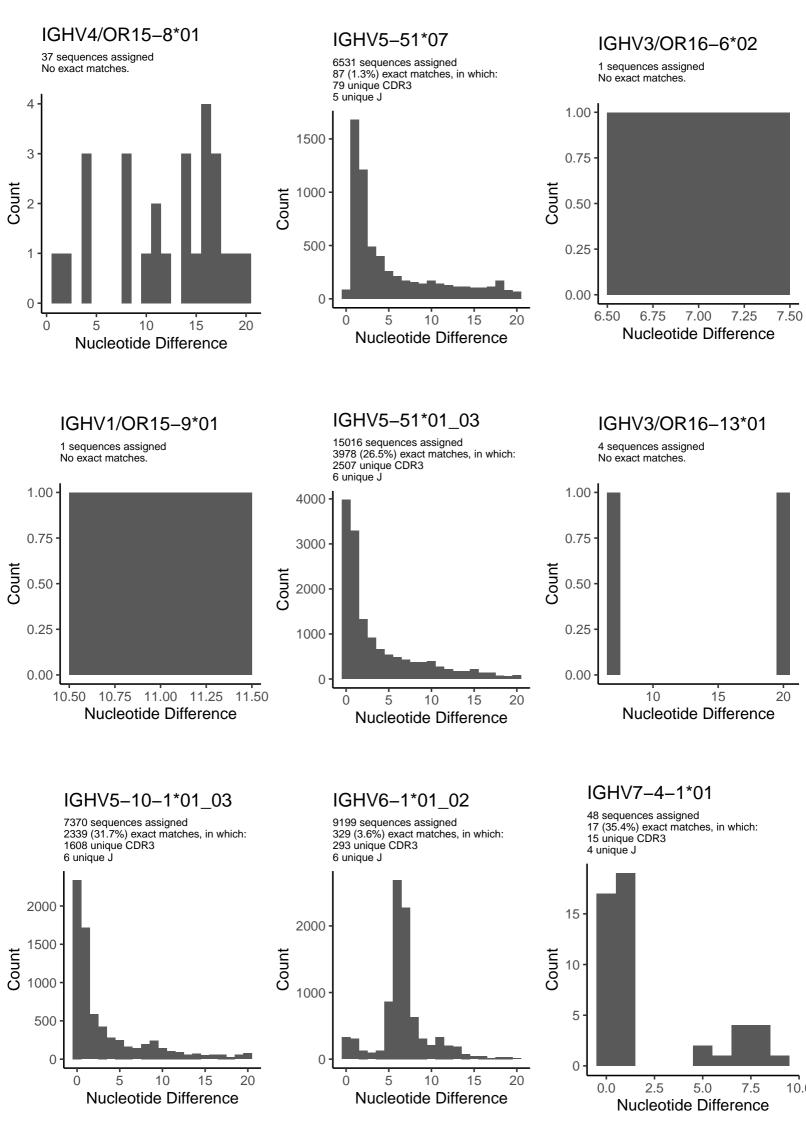




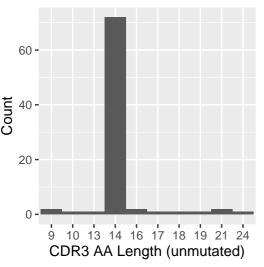








IGHV3-69-1*01_T112A_A113G_G147A_G157A_C165A_G188A_A190T_C191A_C198T_A200C_





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