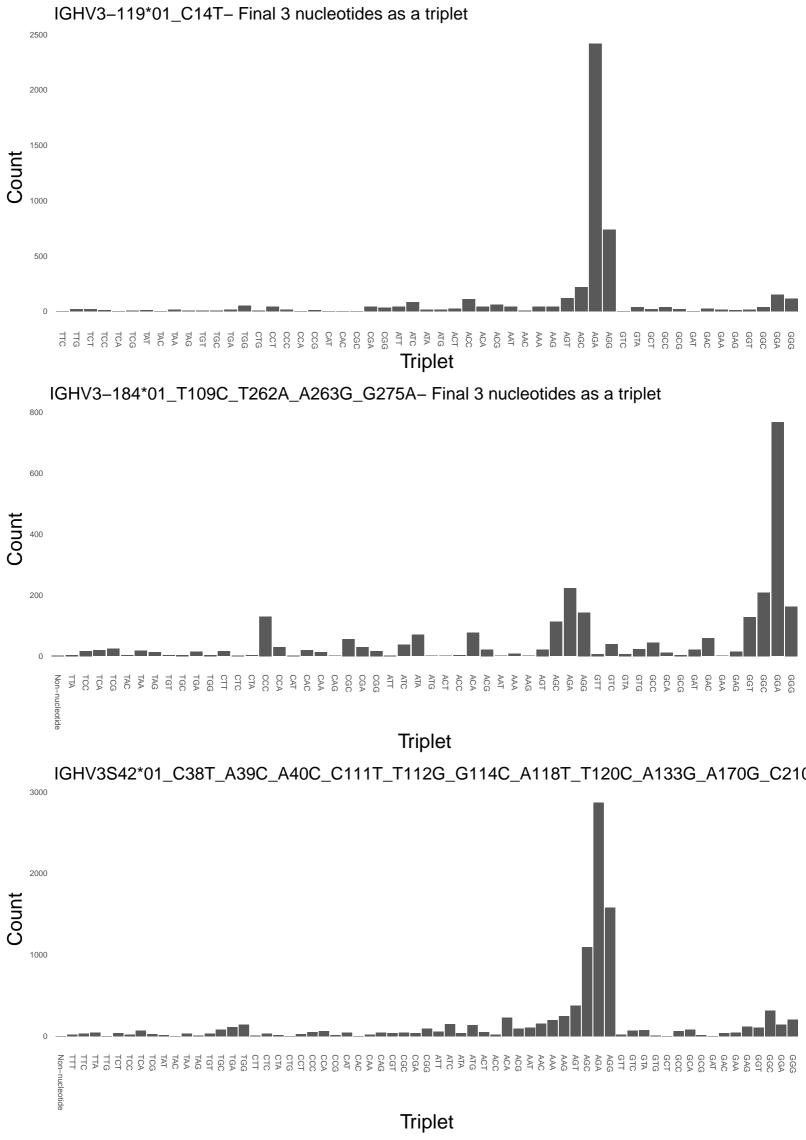
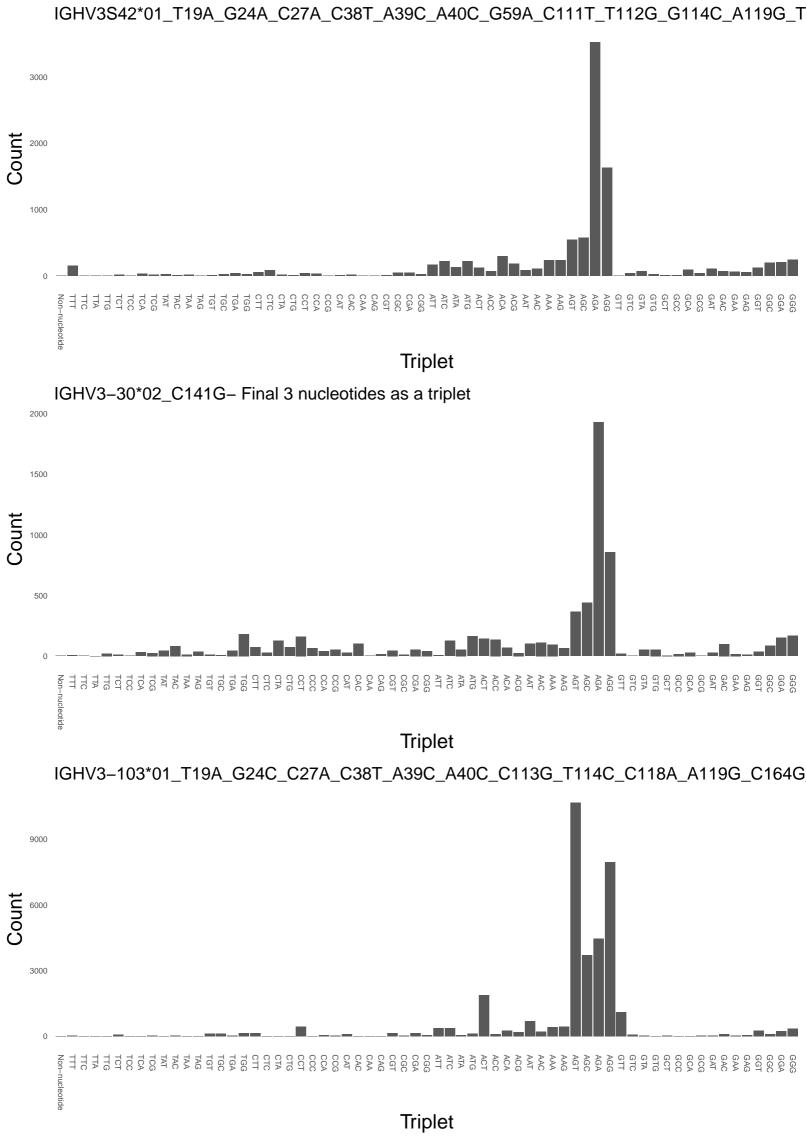


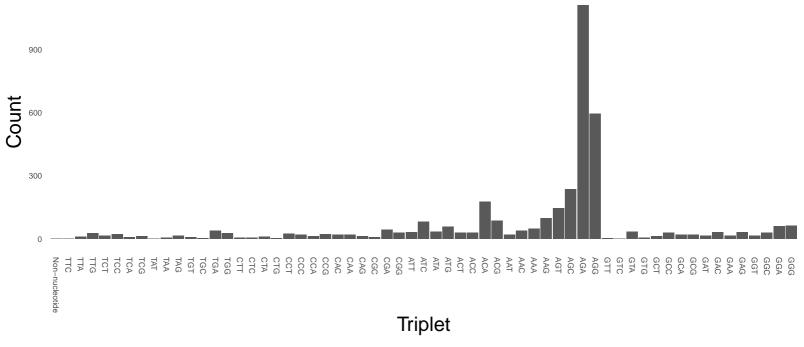
IGHV3-16*01_A51T_T78C_A119G_C300T- Final 3 nucleotides as a triplet 1500 500 **Triplet** IGHV3-54*02_G50A_T111C_T165G_G170A_G171T_A190C_A284G_T286G- Final 3 nucleotide 1000 **Triplet** IGHV3-116*02_G8A- Final 3 nucleotides as a triplet 3000 1000 Region of the control of the control

Triplet

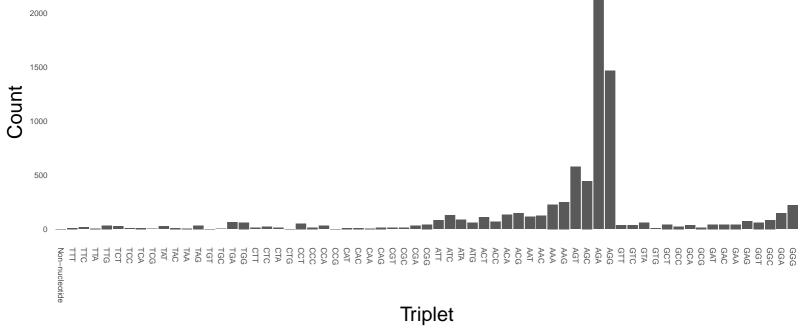




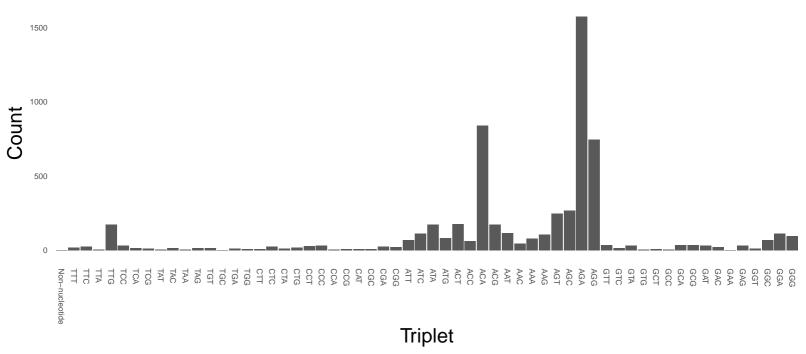
IGHV4-76*01_C34G_A244G_C256G- Final 3 nucleotides as a triplet



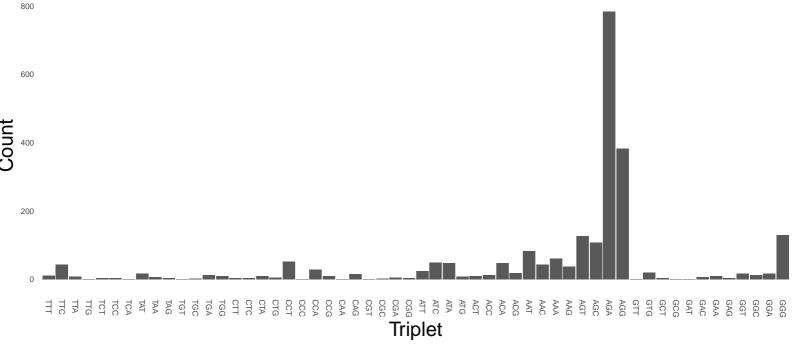
IGHV4-160*01_C133G_G147A- Final 3 nucleotides as a triplet



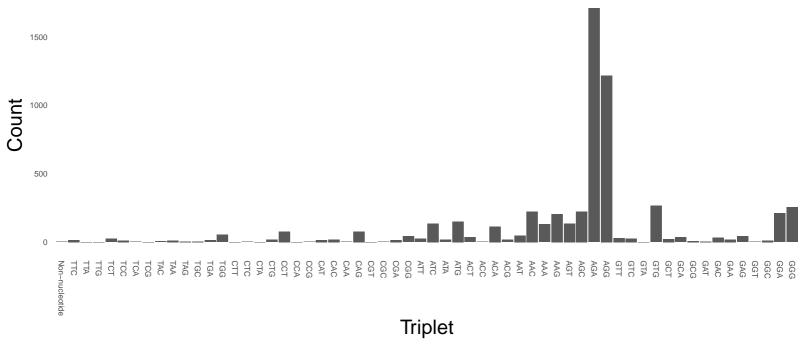
IGHV4-65*02_C34G_A163T_G169A- Final 3 nucleotides as a triplet



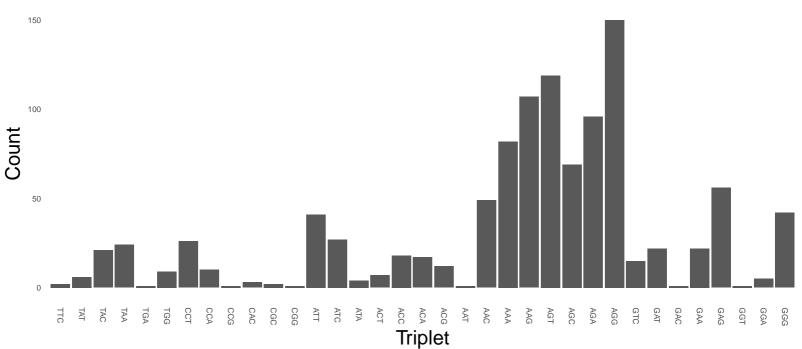
IGHV4-122*02_G82T_G83A_A100G_C133G- Final 3 nucleotides as a triplet



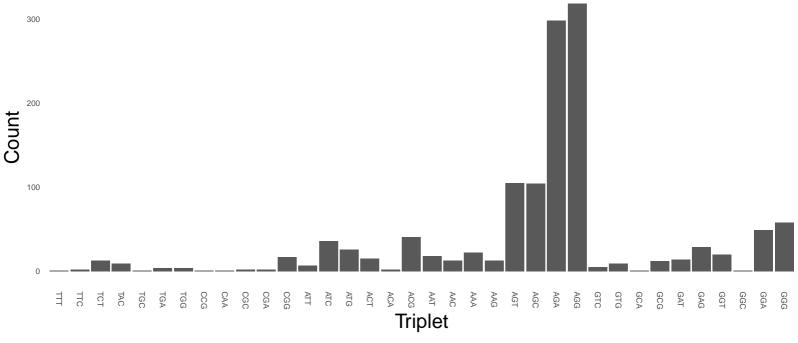
IGHV5-20*02_A141G_A295T_C312T- Final 3 nucleotides as a triplet



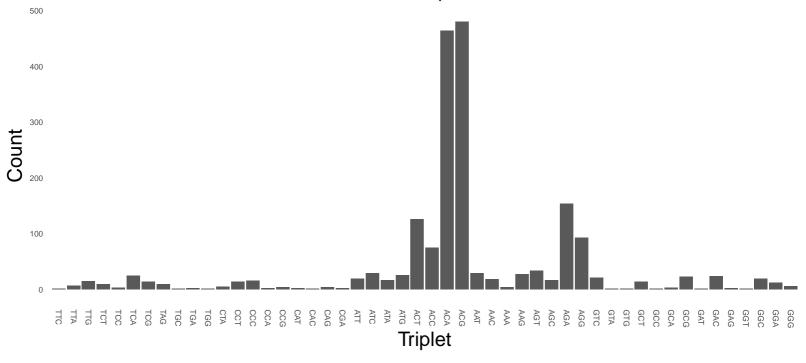
IGHV5-43*01_A106G_C297T- Final 3 nucleotides as a triplet

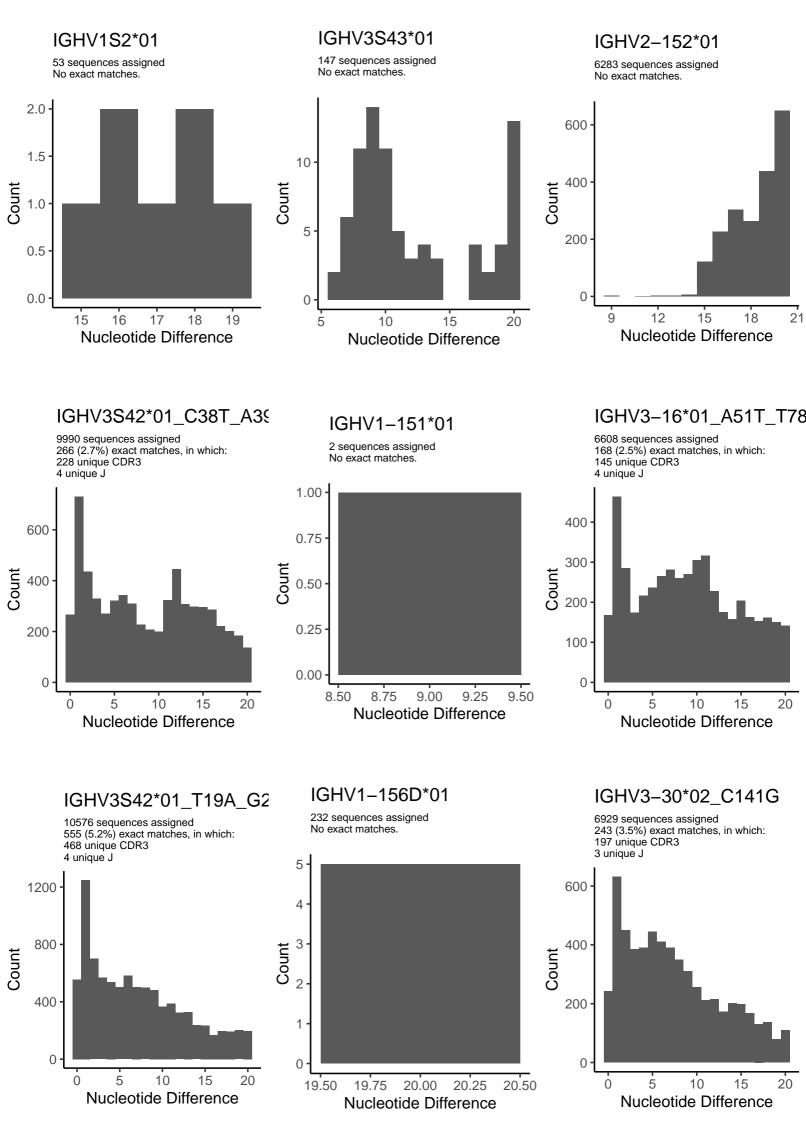


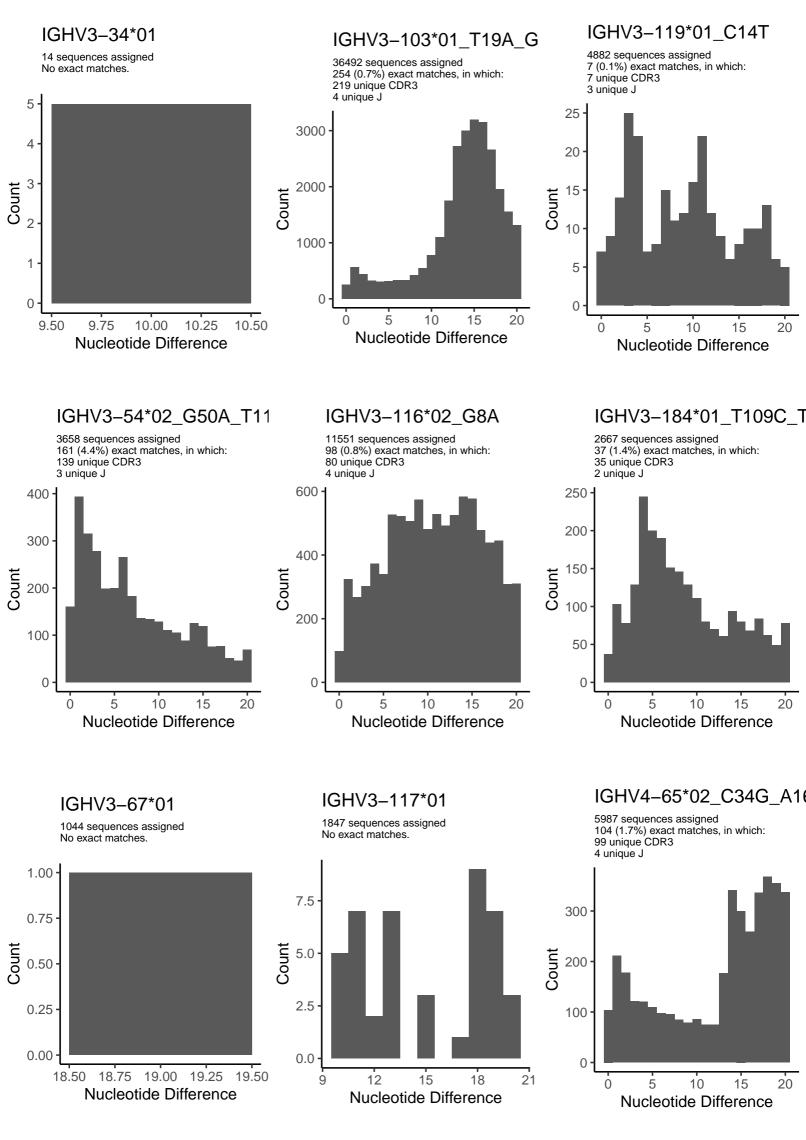
IGHV6-1*01_G280T- Final 3 nucleotides as a triplet



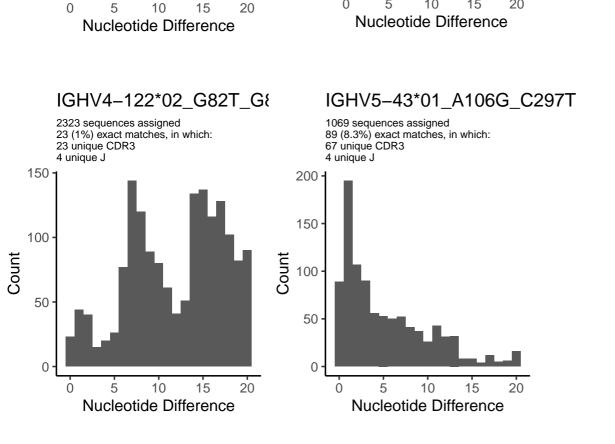
IGHV4-93*02_C297G- Final 3 nucleotides as a triplet







IGHV4-76*01_C34G_A24 IGHV4-160*01_C133G_(IGHV6-1*01_G280T 1273 sequences assigned 39 (3.1%) exact matches, in which: 34 unique CDR3 3660 sequences assigned 7785 sequences assigned 49 (1.3%) exact matches, in which: 46 unique CDR3 78 (1%) exact matches, in which: 78 unique CDR3 4 unique J 4 unique J 4 unique J 600 200 100 400 Count Count Count 100 50 200 0 0 5 10 15 20 5 10 15 20 5 10 15 20 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV4-93*02_C297G IGHV5-20*02_A141G_A295T_C312T 1878 sequences assigned 71 (3.8%) exact matches, in which: 5799 sequences assigned 359 (6.2%) exact matches, in which: 66 unique CDR3 300 unique CDR3 4 unique J 4 unique J 150 1000 750 100 Count 500 50



250

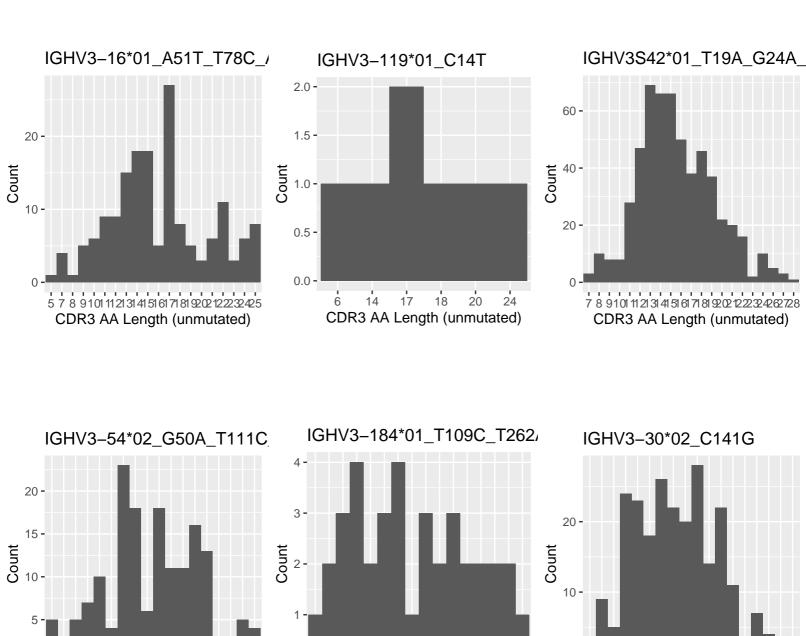
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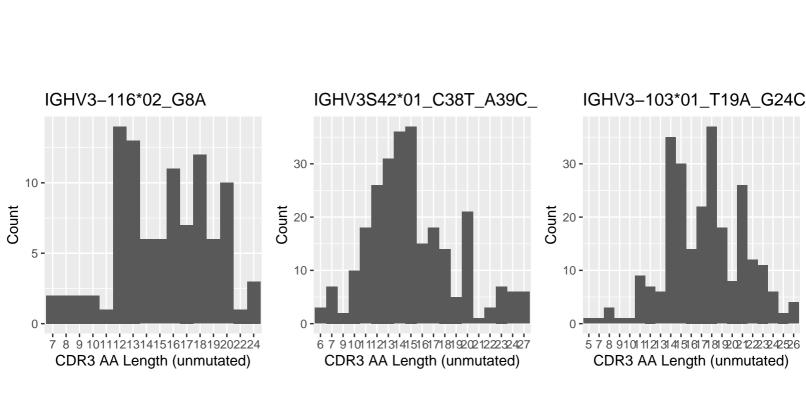
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10

20

0





7 9 1112131415161718192021232426

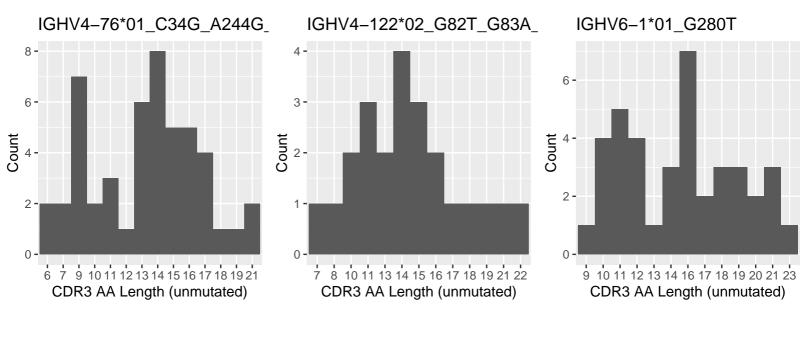
CDR3 AA Length (unmutated)

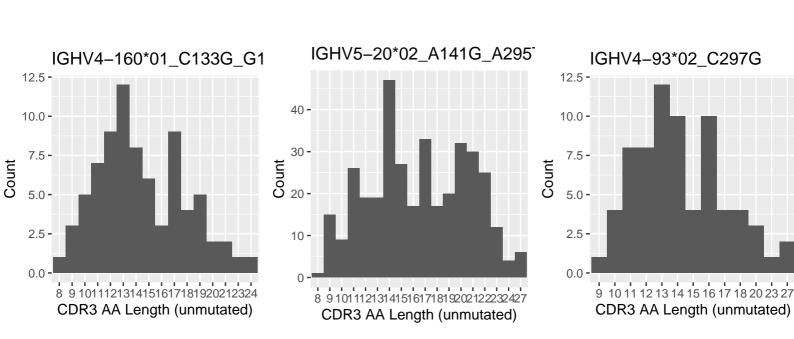
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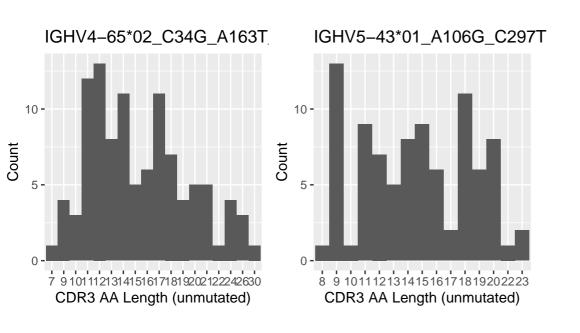
CDR3 AA Length (unmutated)

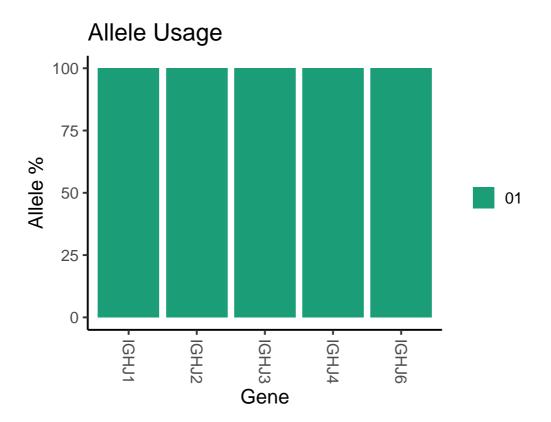
5 6 7 8 9 10111213141516171819202122

CDR3 AA Length (unmutated)









Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.