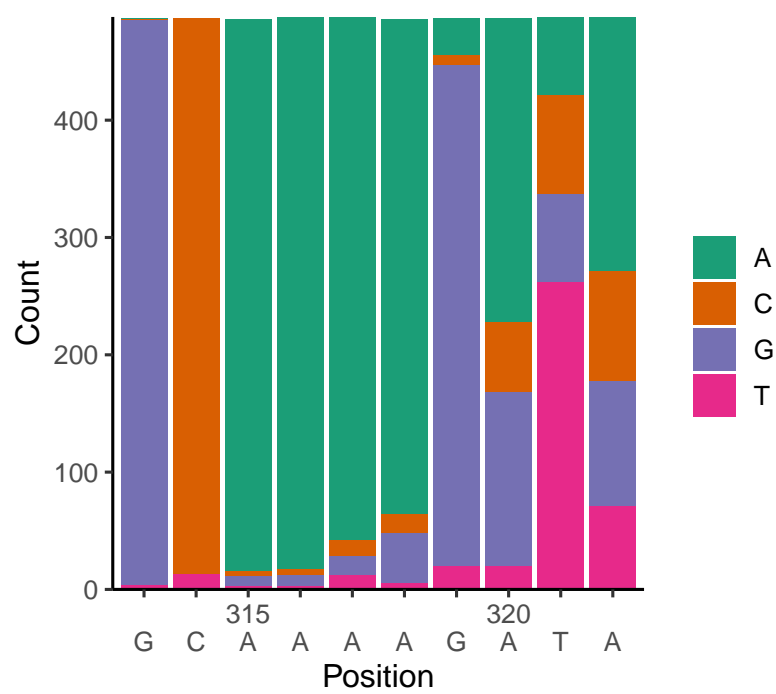
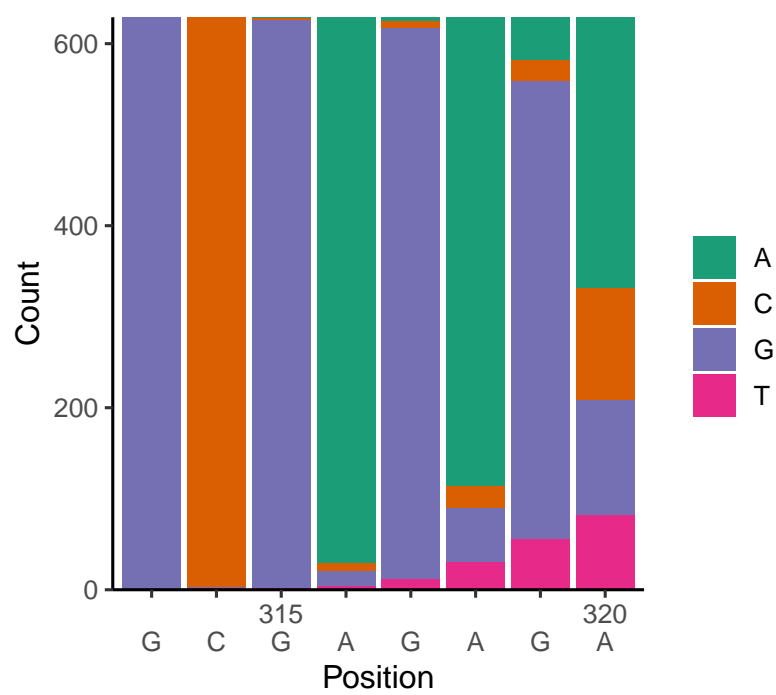


Gene IGHV3-9*01_T307C



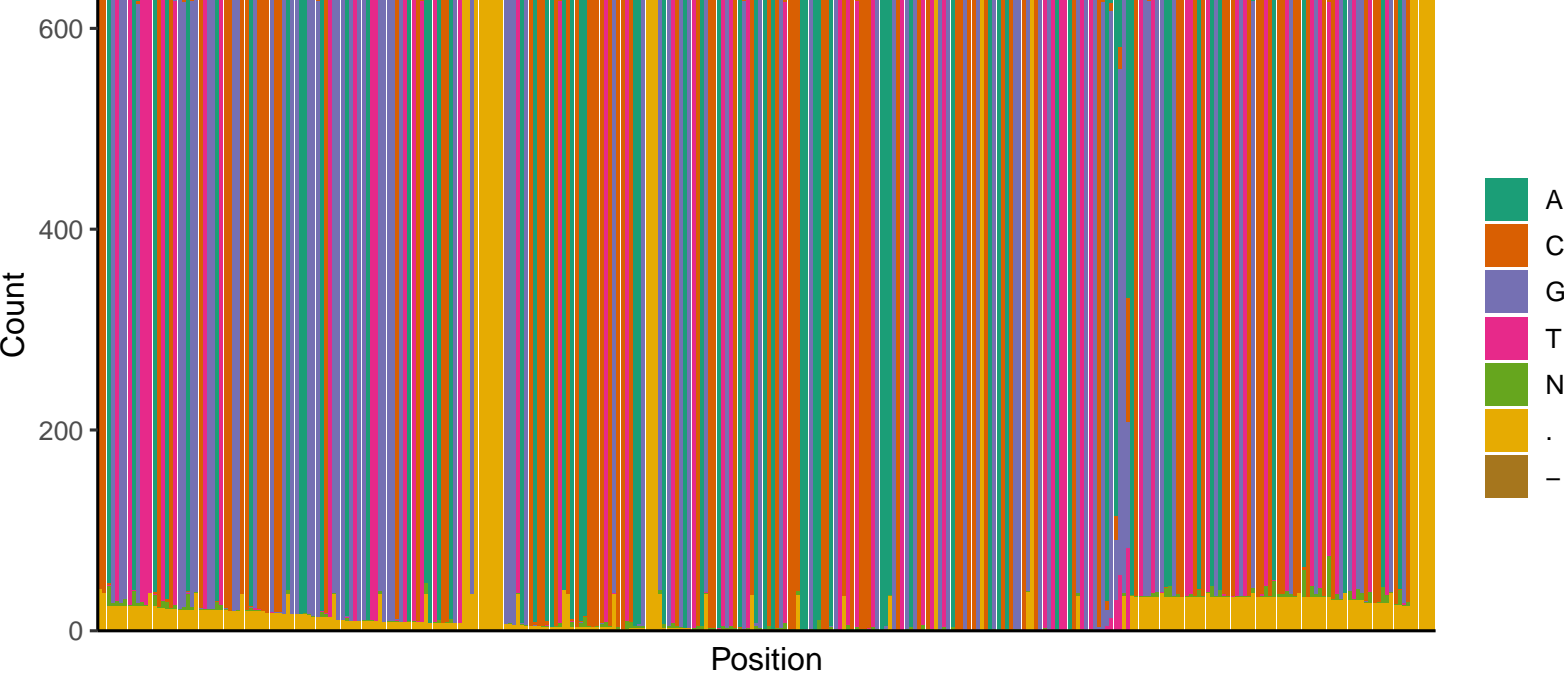
Gene IGHV4-61*02_A234G



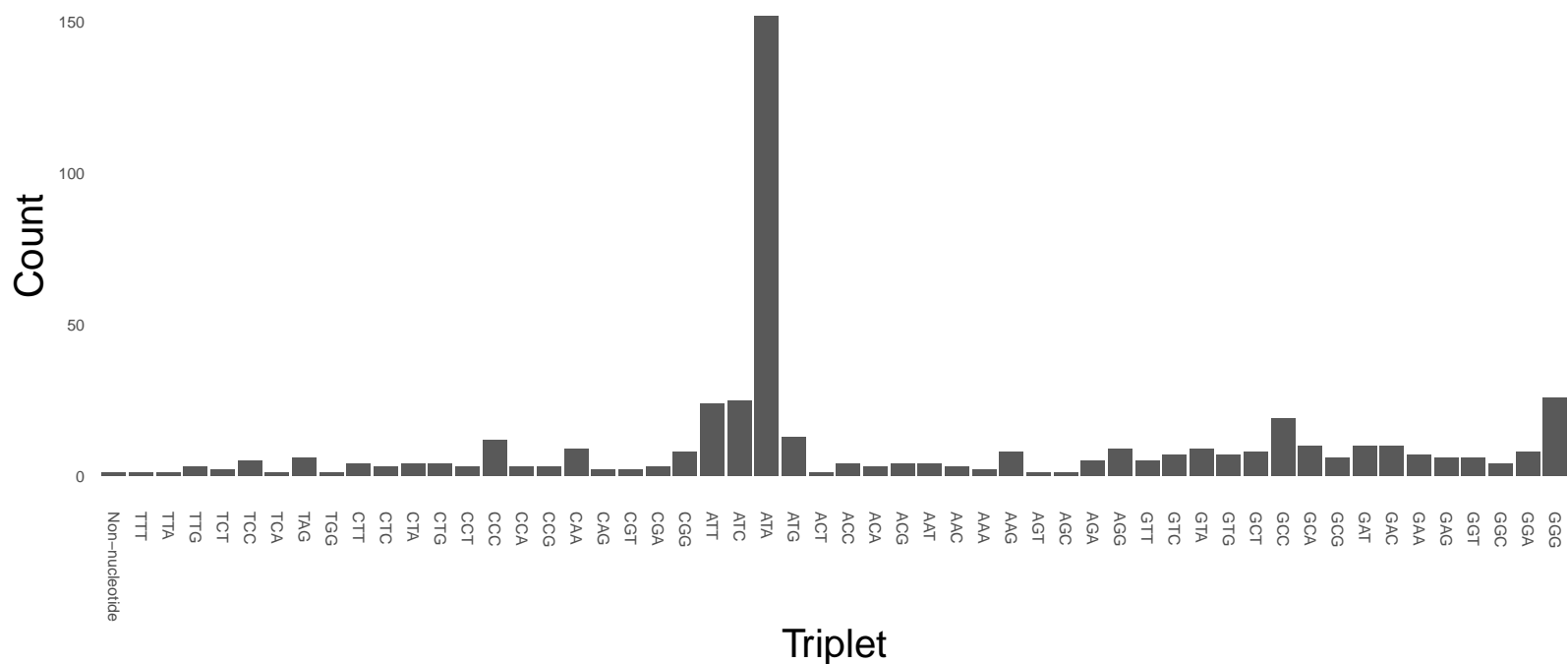
Gene IGHV3-9*01_T307C



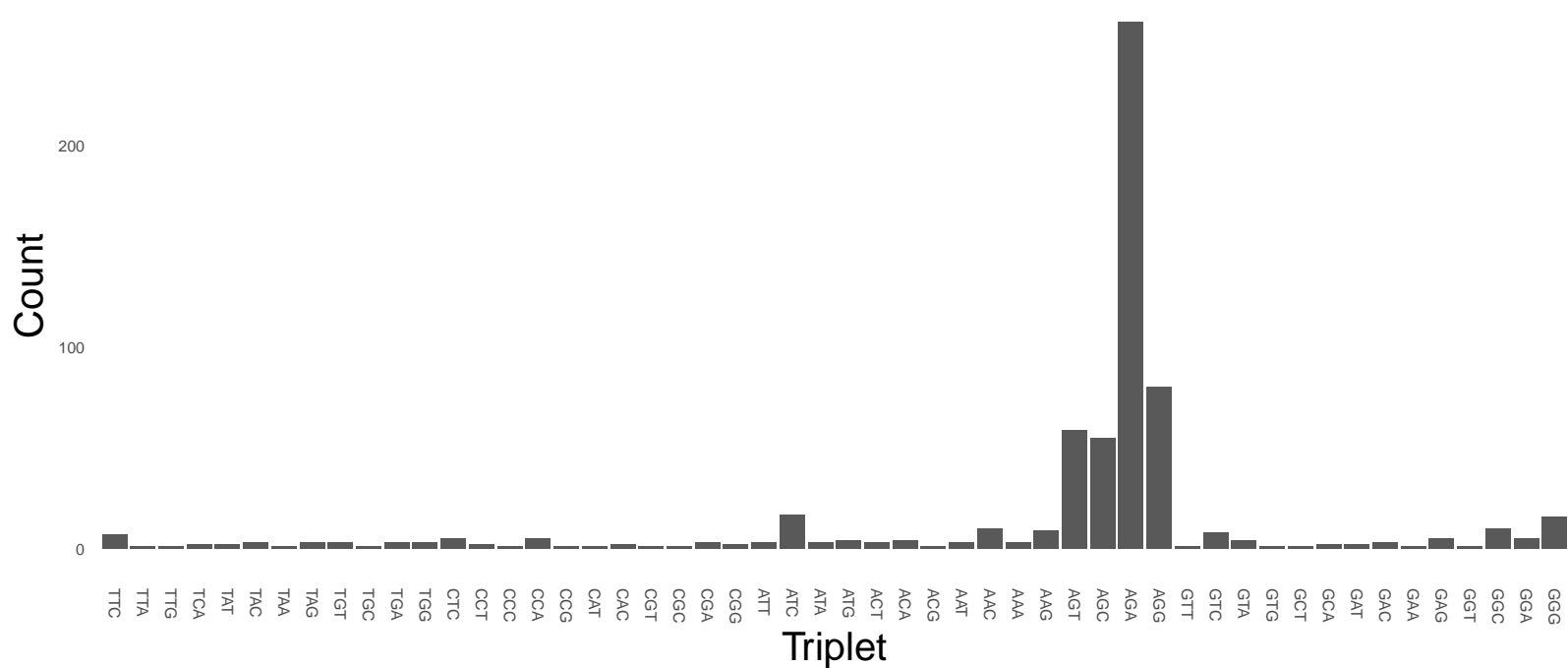
Gene IGHV4-61*02_A234G



IGHV3–9*01_T307C– Final 3 nucleotides as a triplet

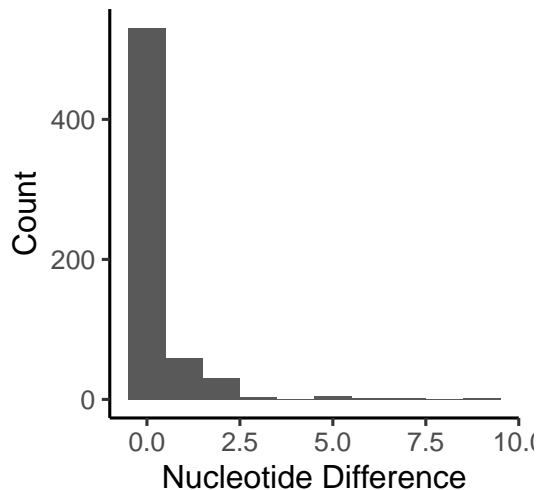


IGHV4–61*02_A234G– Final 3 nucleotides as a triplet



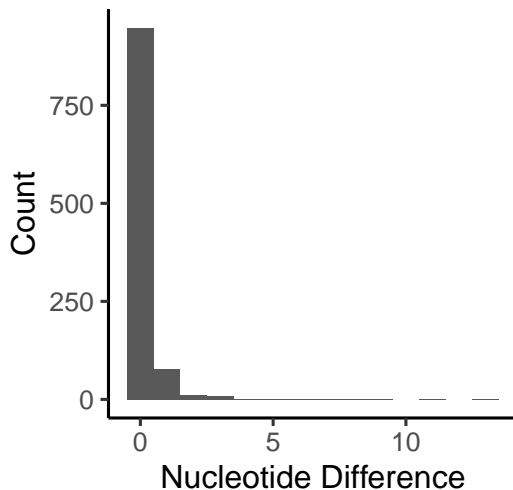
IGHV1-2*02

637 sequences assigned
531 (83.4%) exact matches, in which:
496 unique CDR3
7 unique J



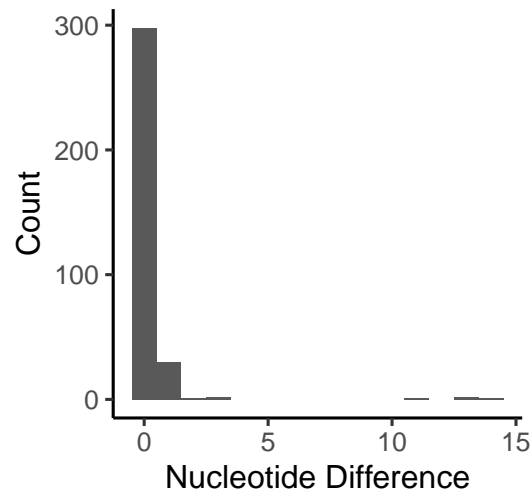
IGHV1-18*01

1059 sequences assigned
948 (89.5%) exact matches, in which:
912 unique CDR3
7 unique J



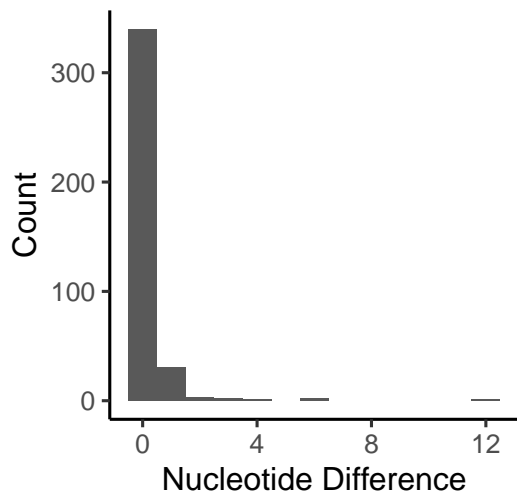
IGHV1-46*03

335 sequences assigned
298 (89%) exact matches, in which:
285 unique CDR3
7 unique J



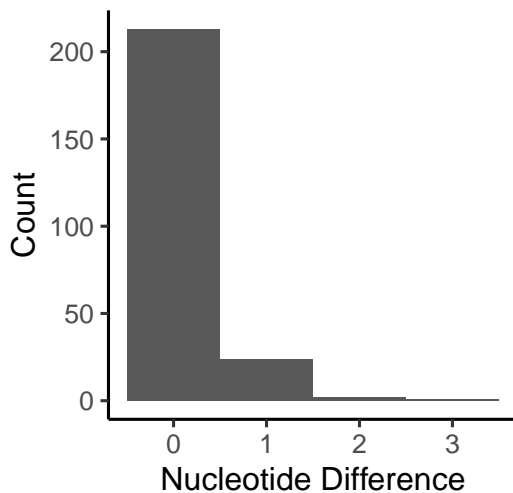
IGHV1-3*01

380 sequences assigned
340 (89.5%) exact matches, in which:
326 unique CDR3
6 unique J



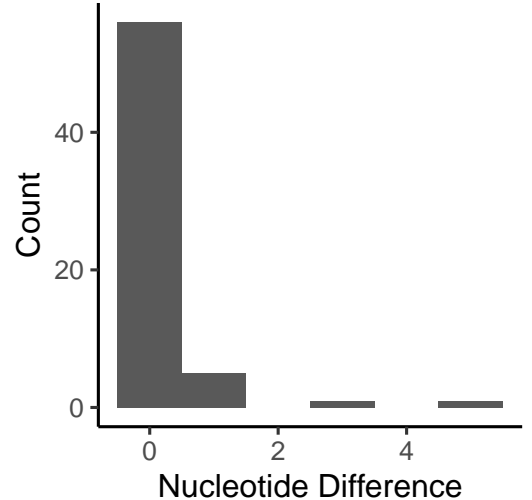
IGHV1-24*01

240 sequences assigned
213 (88.8%) exact matches, in which:
197 unique CDR3
7 unique J



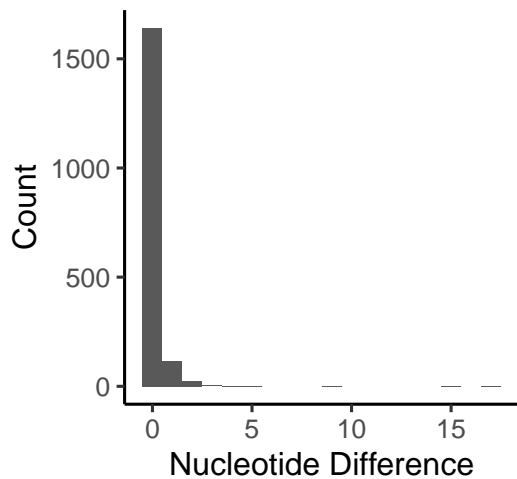
IGHV1-58*01

63 sequences assigned
56 (88.9%) exact matches, in which:
56 unique CDR3
5 unique J



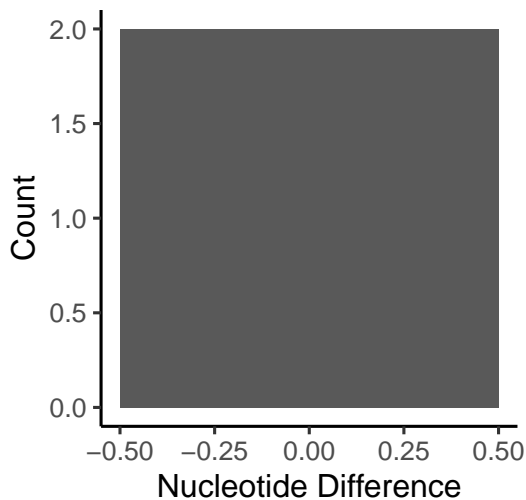
IGHV1-8*01

1792 sequences assigned
1641 (91.6%) exact matches, in which:
1537 unique CDR3
7 unique J



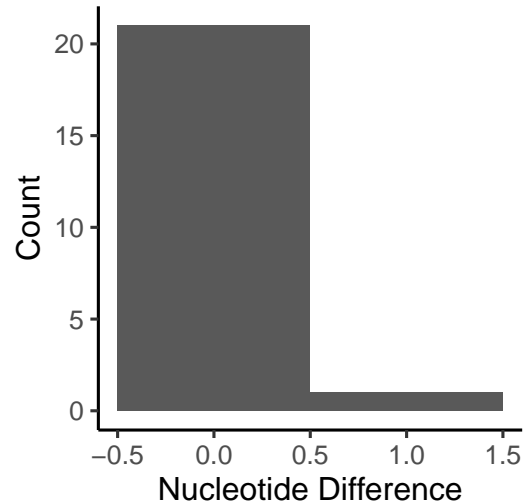
IGHV1-45*02

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
2 unique J



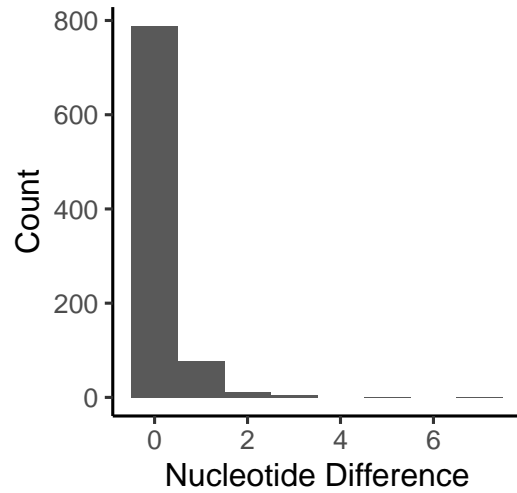
IGHV1-58*02

22 sequences assigned
21 (95.5%) exact matches, in which:
20 unique CDR3
5 unique J



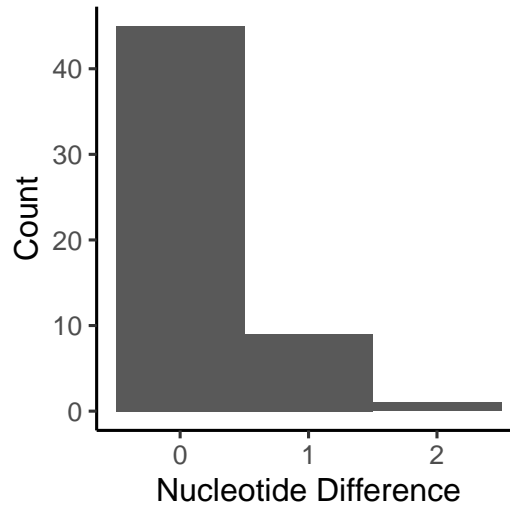
IGHV1-69*04

886 sequences assigned
789 (89.1%) exact matches, in which:
731 unique CDR3
7 unique J



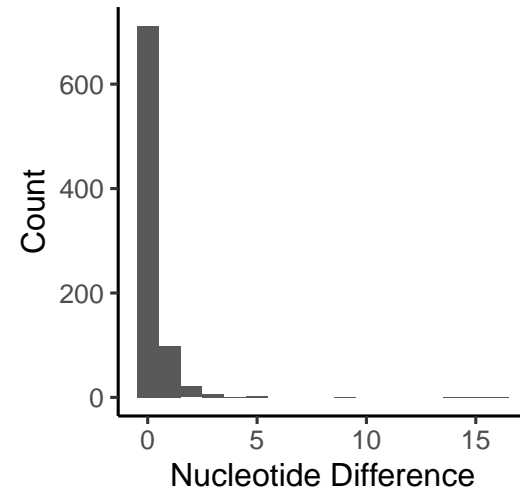
IGHV2-70*01

55 sequences assigned
45 (81.8%) exact matches, in which:
42 unique CDR3
5 unique J



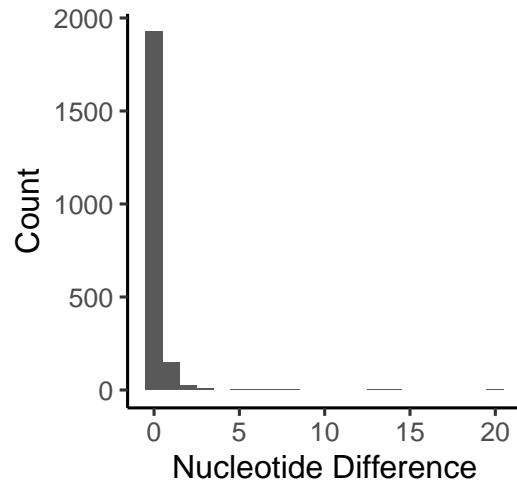
IGHV3-9*01

844 sequences assigned
712 (84.4%) exact matches, in which:
662 unique CDR3
7 unique J



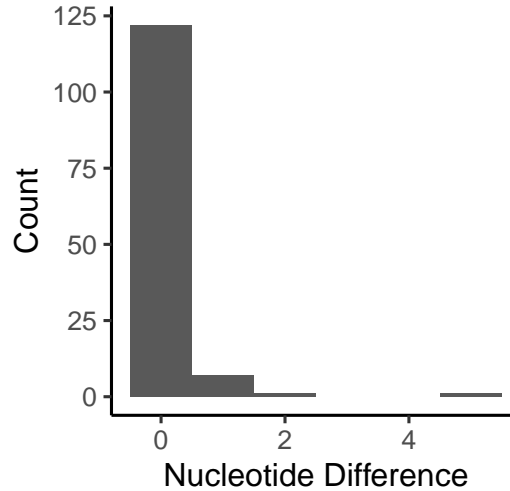
IGHV2-5*01

2127 sequences assigned
1926 (90.6%) exact matches, in which:
1810 unique CDR3
7 unique J



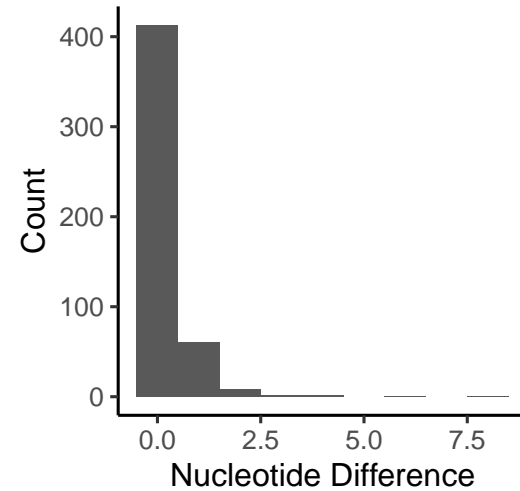
IGHV2-70*15

131 sequences assigned
122 (93.1%) exact matches, in which:
120 unique CDR3
5 unique J



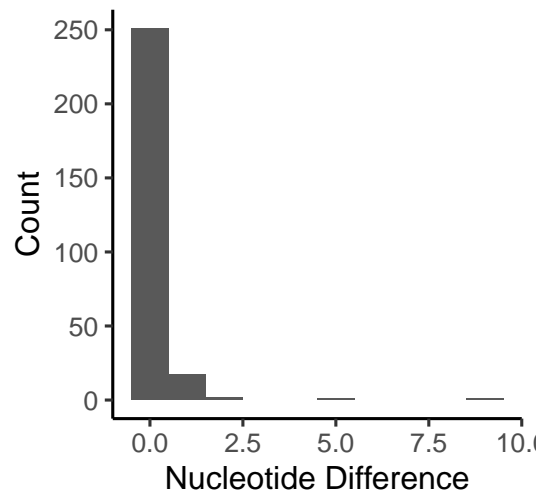
IGHV3-9*01_T307C

488 sequences assigned
413 (84.6%) exact matches, in which:
377 unique CDR3
6 unique J



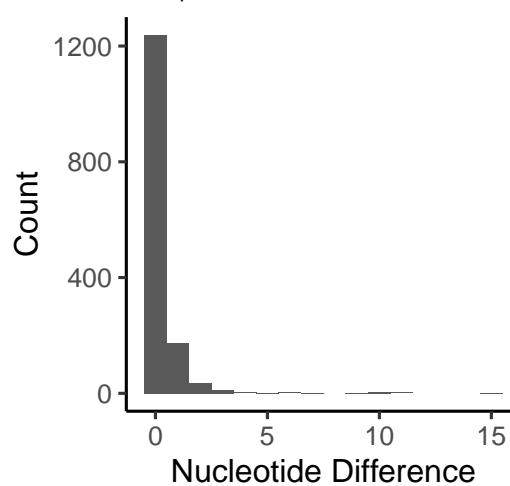
IGHV2-26*01

272 sequences assigned
251 (92.3%) exact matches, in which:
243 unique CDR3
7 unique J



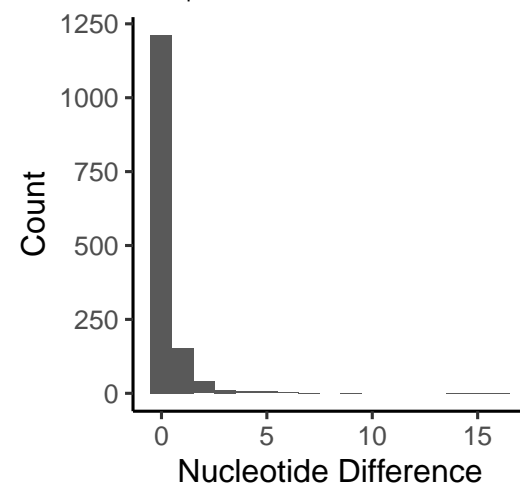
IGHV3-7*01

1477 sequences assigned
1238 (83.8%) exact matches, in which:
1181 unique CDR3
7 unique J



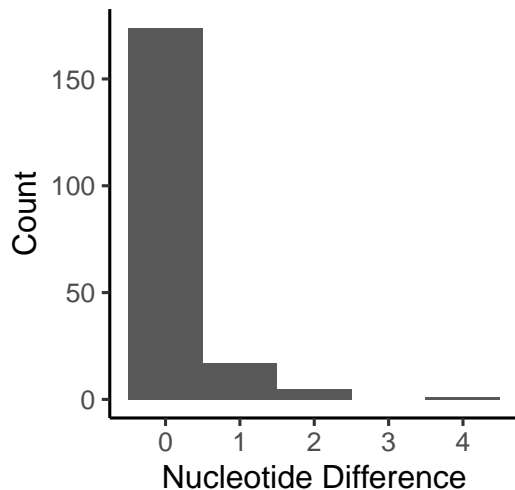
IGHV3-11*01

1438 sequences assigned
1212 (84.3%) exact matches, in which:
1153 unique CDR3
7 unique J



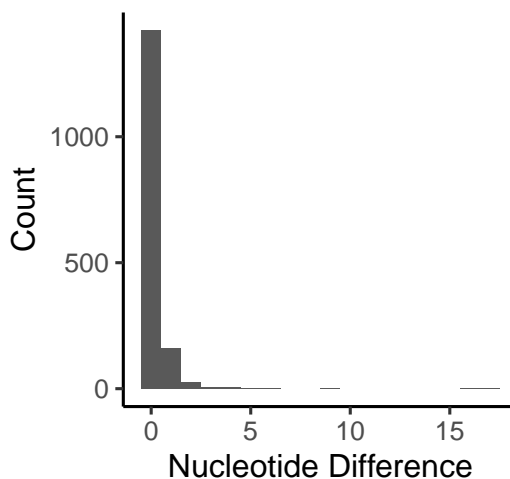
IGHV3-13*01

197 sequences assigned
174 (88.3%) exact matches, in which:
164 unique CDR3
6 unique J



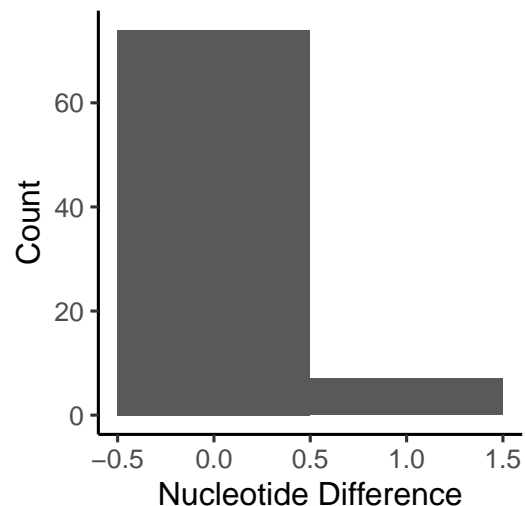
IGHV3-21*01

1633 sequences assigned
1422 (87.1%) exact matches, in which:
1336 unique CDR3
7 unique J



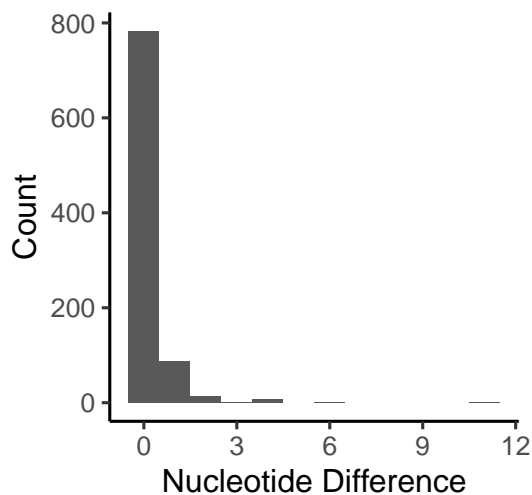
IGHV3-43*01

81 sequences assigned
74 (91.4%) exact matches, in which:
71 unique CDR3
6 unique J



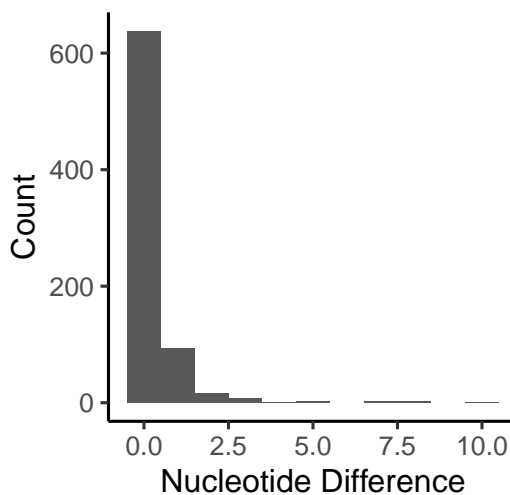
IGHV3-15*01

898 sequences assigned
783 (87.2%) exact matches, in which:
736 unique CDR3
7 unique J



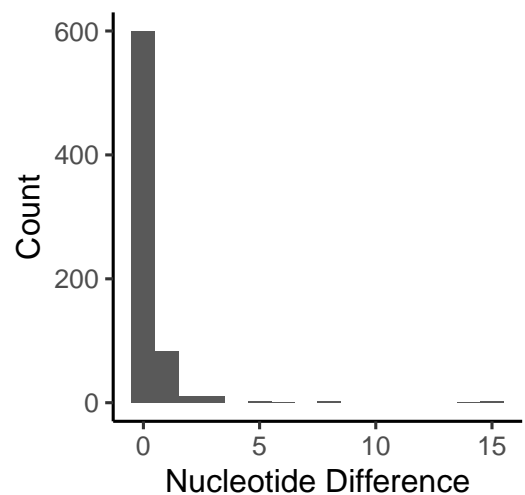
IGHV3-30-3*01

766 sequences assigned
638 (83.3%) exact matches, in which:
594 unique CDR3
6 unique J



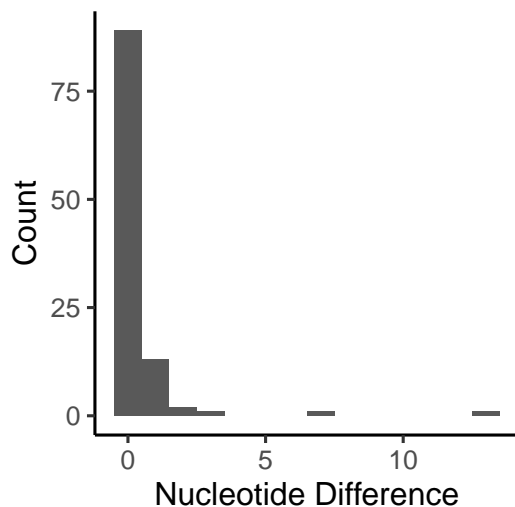
IGHV3-48*01

713 sequences assigned
600 (84.2%) exact matches, in which:
562 unique CDR3
7 unique J



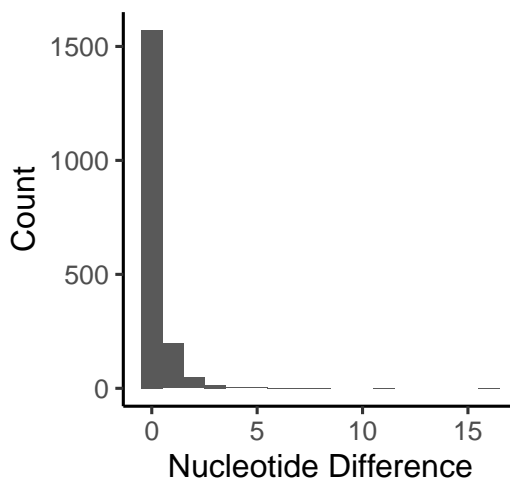
IGHV3-20*01

107 sequences assigned
89 (83.2%) exact matches, in which:
84 unique CDR3
6 unique J



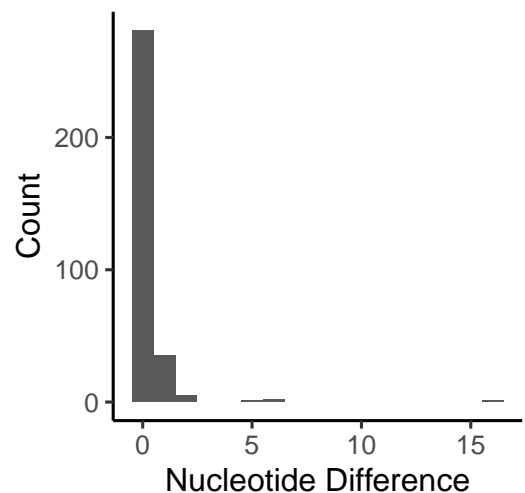
IGHV3-33*01

1845 sequences assigned
1572 (85.2%) exact matches, in which:
1482 unique CDR3
7 unique J



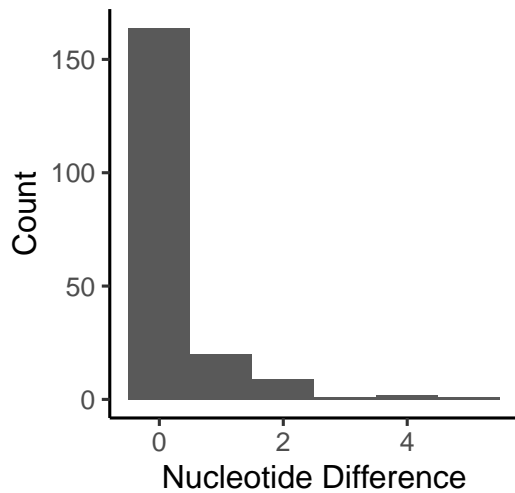
IGHV3-49*03

325 sequences assigned
281 (86.5%) exact matches, in which:
265 unique CDR3
7 unique J



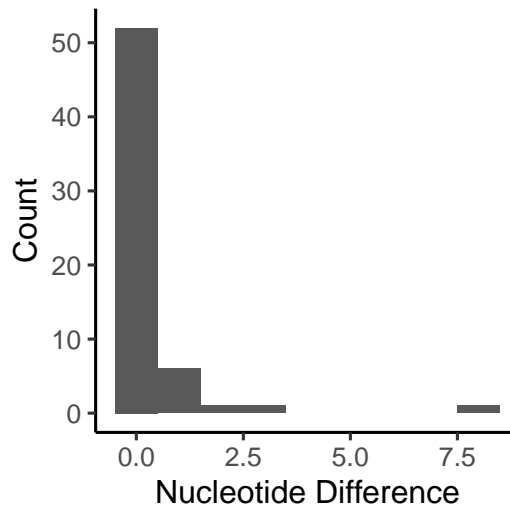
IGHV3–53*02

197 sequences assigned
164 (83.2%) exact matches, in which:
155 unique CDR3
7 unique J



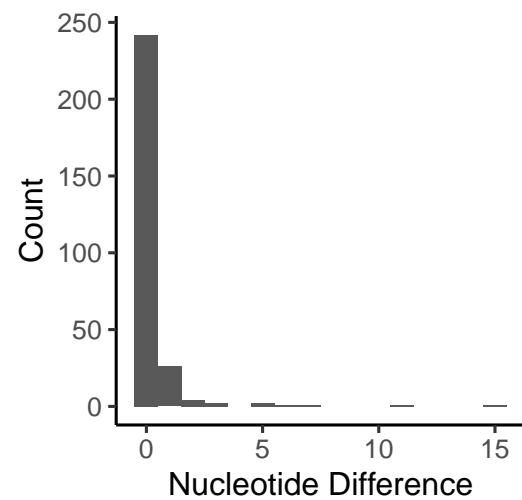
IGHV3–72*01

61 sequences assigned
52 (85.2%) exact matches, in which:
47 unique CDR3
6 unique J



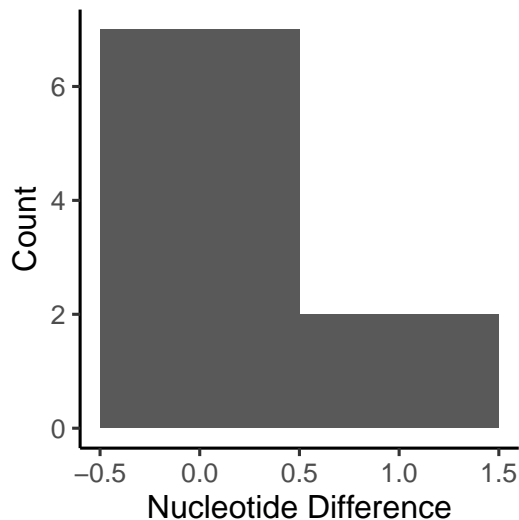
IGHV3–74*01

280 sequences assigned
242 (86.4%) exact matches, in which:
226 unique CDR3
7 unique J



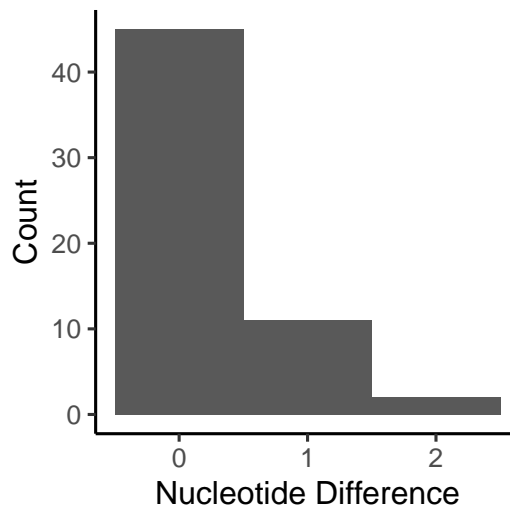
IGHV3–64*02

9 sequences assigned
7 (77.8%) exact matches, in which:
6 unique CDR3
2 unique J



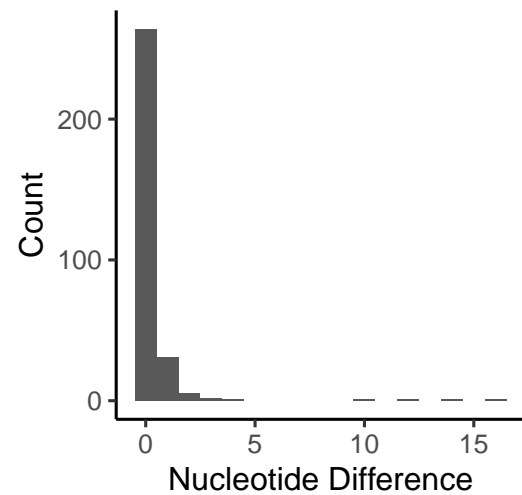
IGHV3–73*01

58 sequences assigned
45 (77.6%) exact matches, in which:
43 unique CDR3
5 unique J



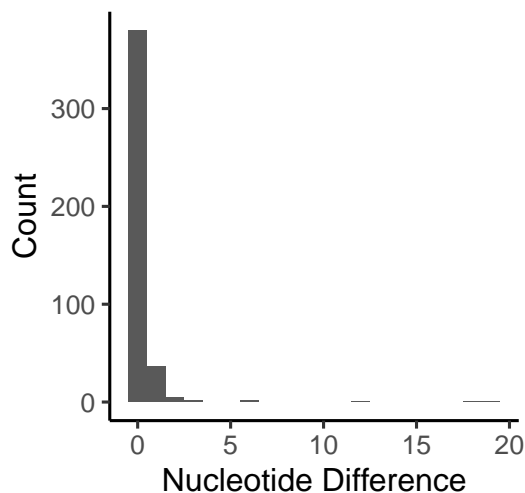
IGHV4–4*07

307 sequences assigned
264 (86%) exact matches, in which:
249 unique CDR3
7 unique J



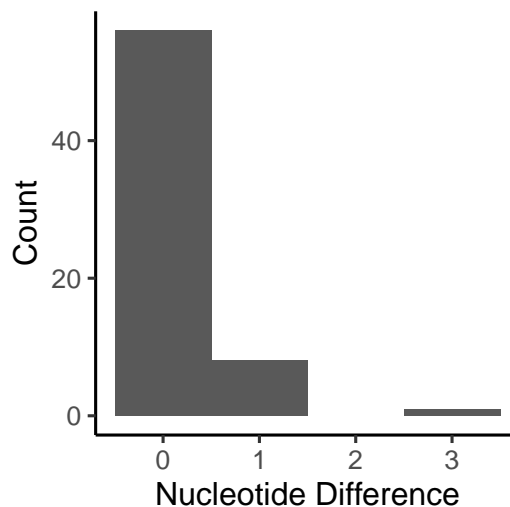
IGHV3–66*01

428 sequences assigned
380 (88.8%) exact matches, in which:
357 unique CDR3
6 unique J



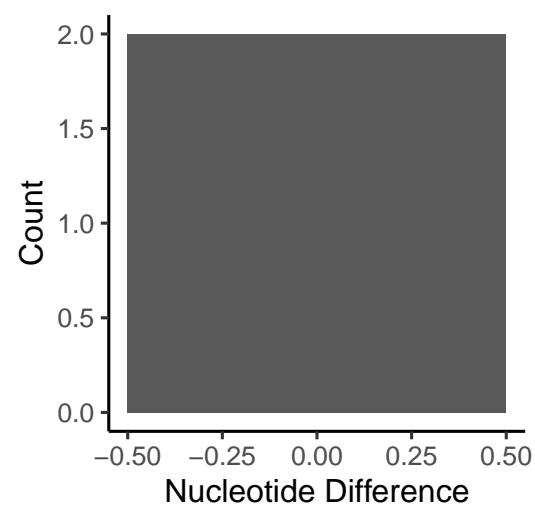
IGHV3–73*02

65 sequences assigned
56 (86.2%) exact matches, in which:
54 unique CDR3
5 unique J



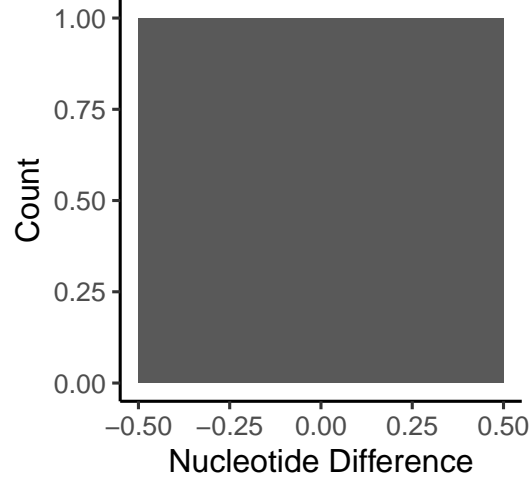
IGHV4–28*01

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
1 unique J



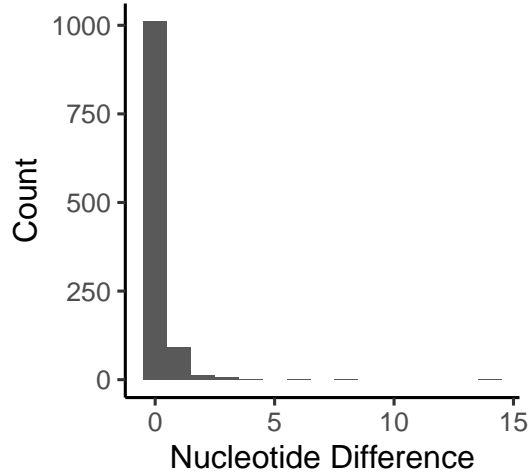
IGHV4-28*03

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



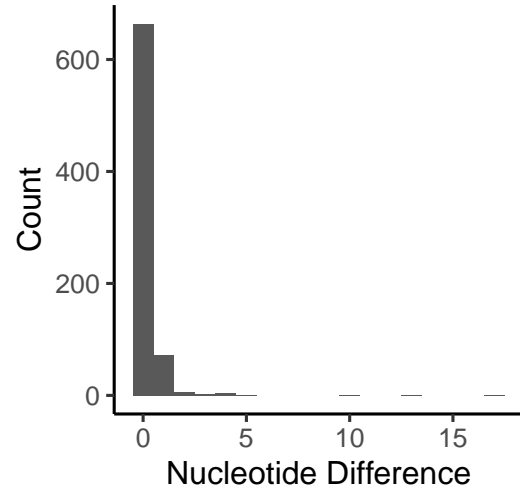
IGHV4-31*03

1128 sequences assigned
1011 (89.6%) exact matches, in which:
962 unique CDR3
7 unique J



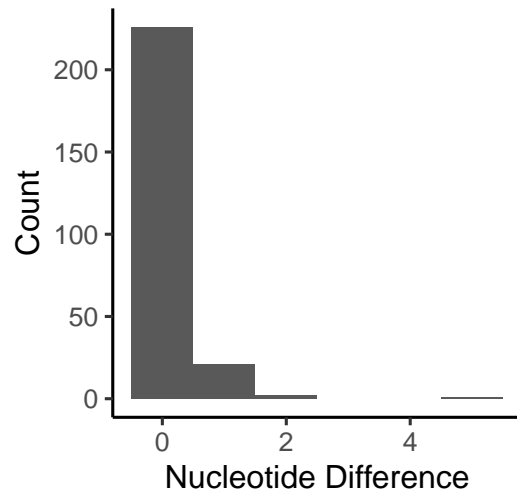
IGHV4-59*01

754 sequences assigned
664 (88.1%) exact matches, in which:
641 unique CDR3
7 unique J



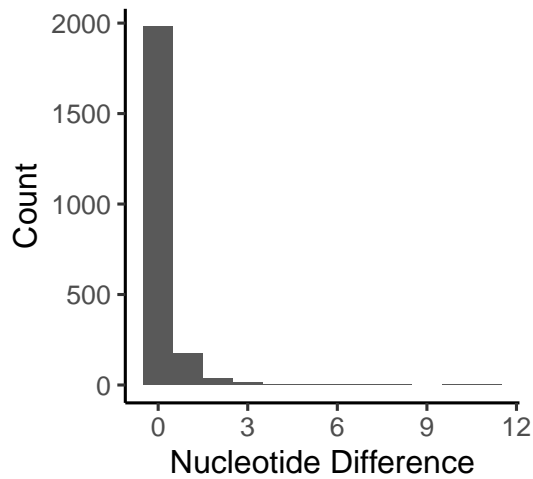
IGHV4-30-2*01

250 sequences assigned
226 (90.4%) exact matches, in which:
217 unique CDR3
7 unique J



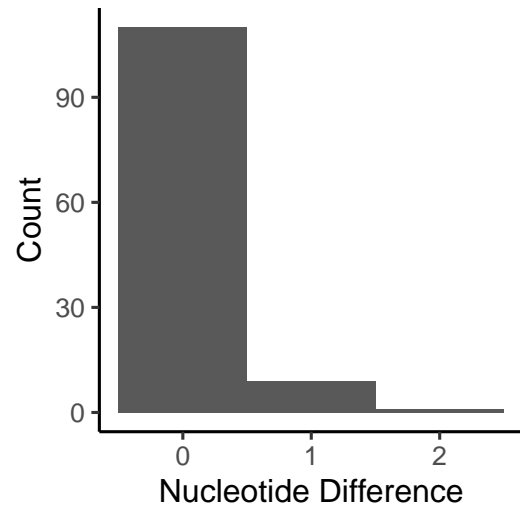
IGHV4-34*01

2221 sequences assigned
1980 (89.1%) exact matches, in which:
1846 unique CDR3
7 unique J



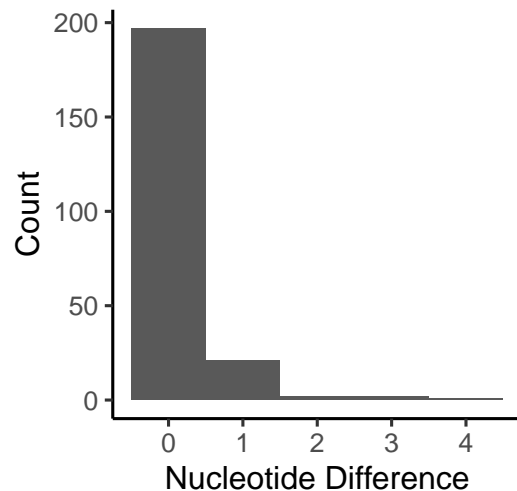
IGHV4-61*01

122 sequences assigned
110 (90.2%) exact matches, in which:
108 unique CDR3
5 unique J



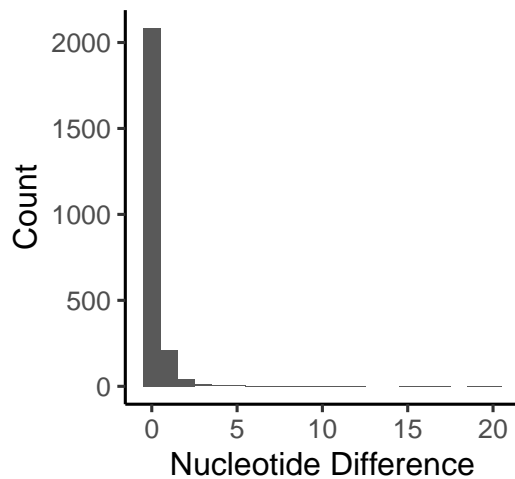
IGHV4-30-4*01

224 sequences assigned
197 (87.9%) exact matches, in which:
191 unique CDR3
7 unique J



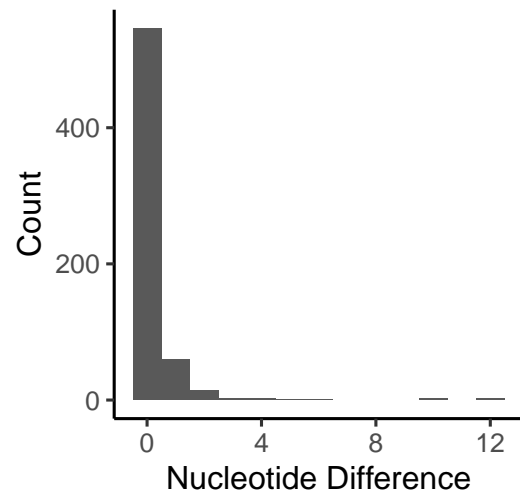
IGHV4-39*01

2379 sequences assigned
2084 (87.6%) exact matches, in which:
1935 unique CDR3
7 unique J



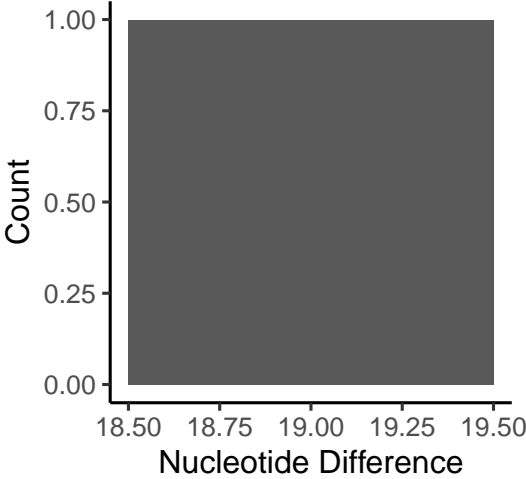
IGHV4-61*02_A234G

629 sequences assigned
546 (86.8%) exact matches, in which:
535 unique CDR3
6 unique J



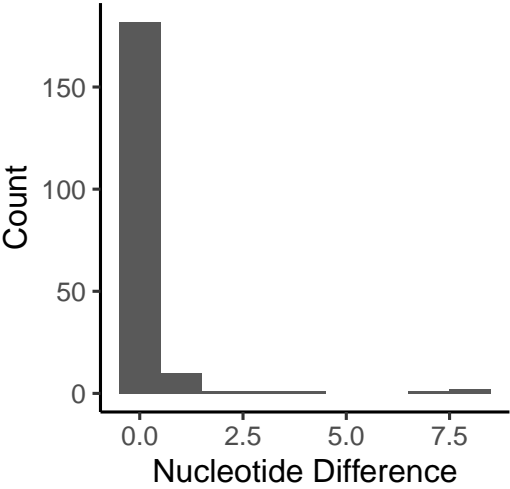
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



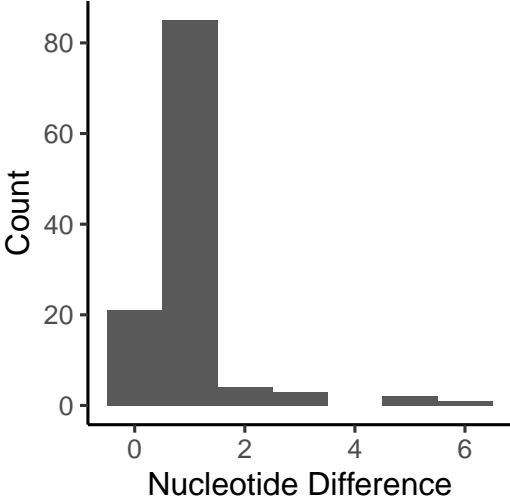
IGHV6-1*01

198 sequences assigned
182 (91.9%) exact matches, in which:
173 unique CDR3
7 unique J



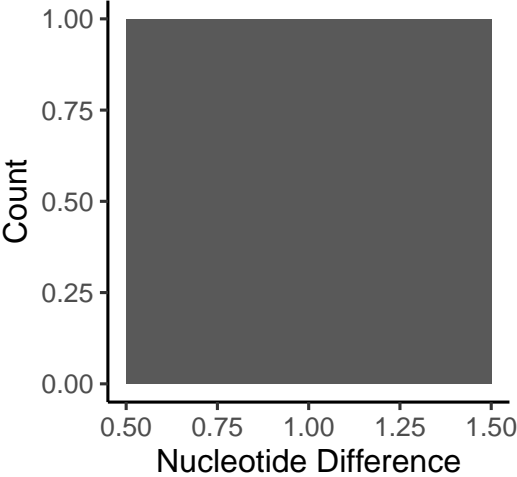
IGHV5-51*01

116 sequences assigned
21 (18.1%) exact matches, in which:
21 unique CDR3
6 unique J



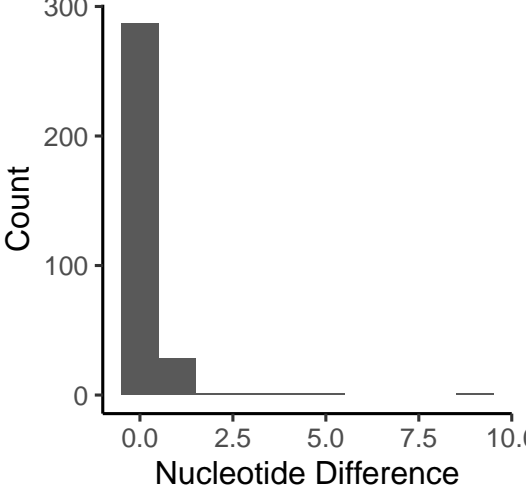
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



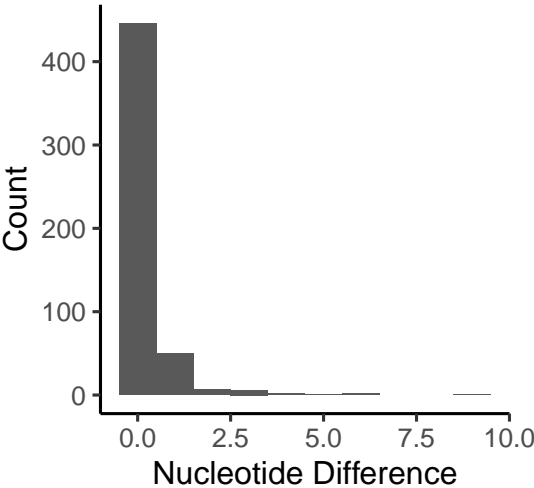
IGHV5-51*03

320 sequences assigned
287 (89.7%) exact matches, in which:
272 unique CDR3
7 unique J

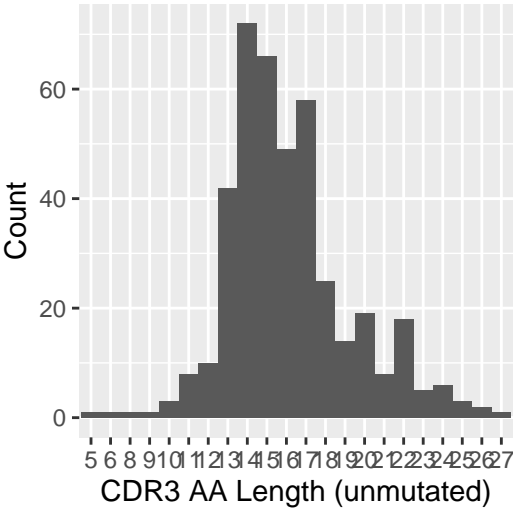


IGHV7-4-1*02

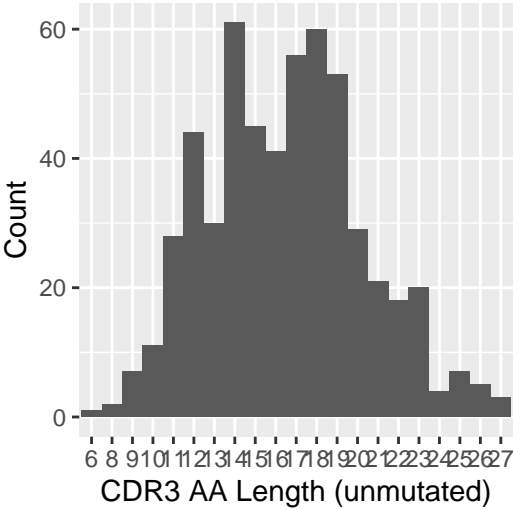
515 sequences assigned
446 (86.6%) exact matches, in which:
421 unique CDR3
7 unique J

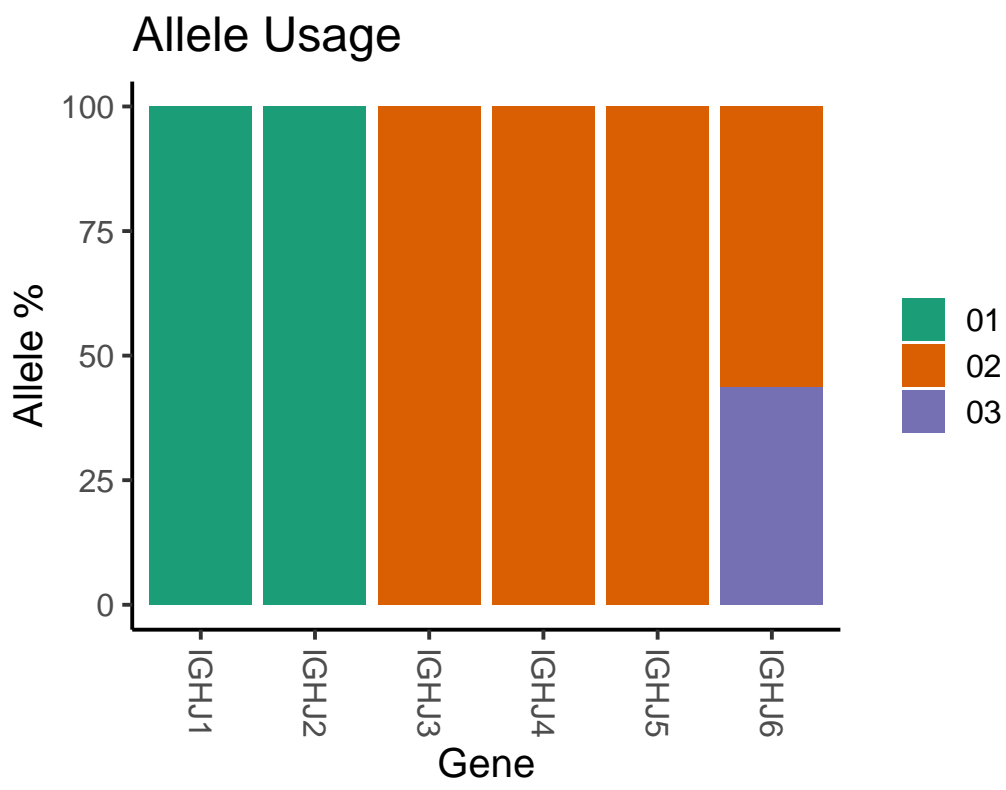


IGHV3-9*01_T307C

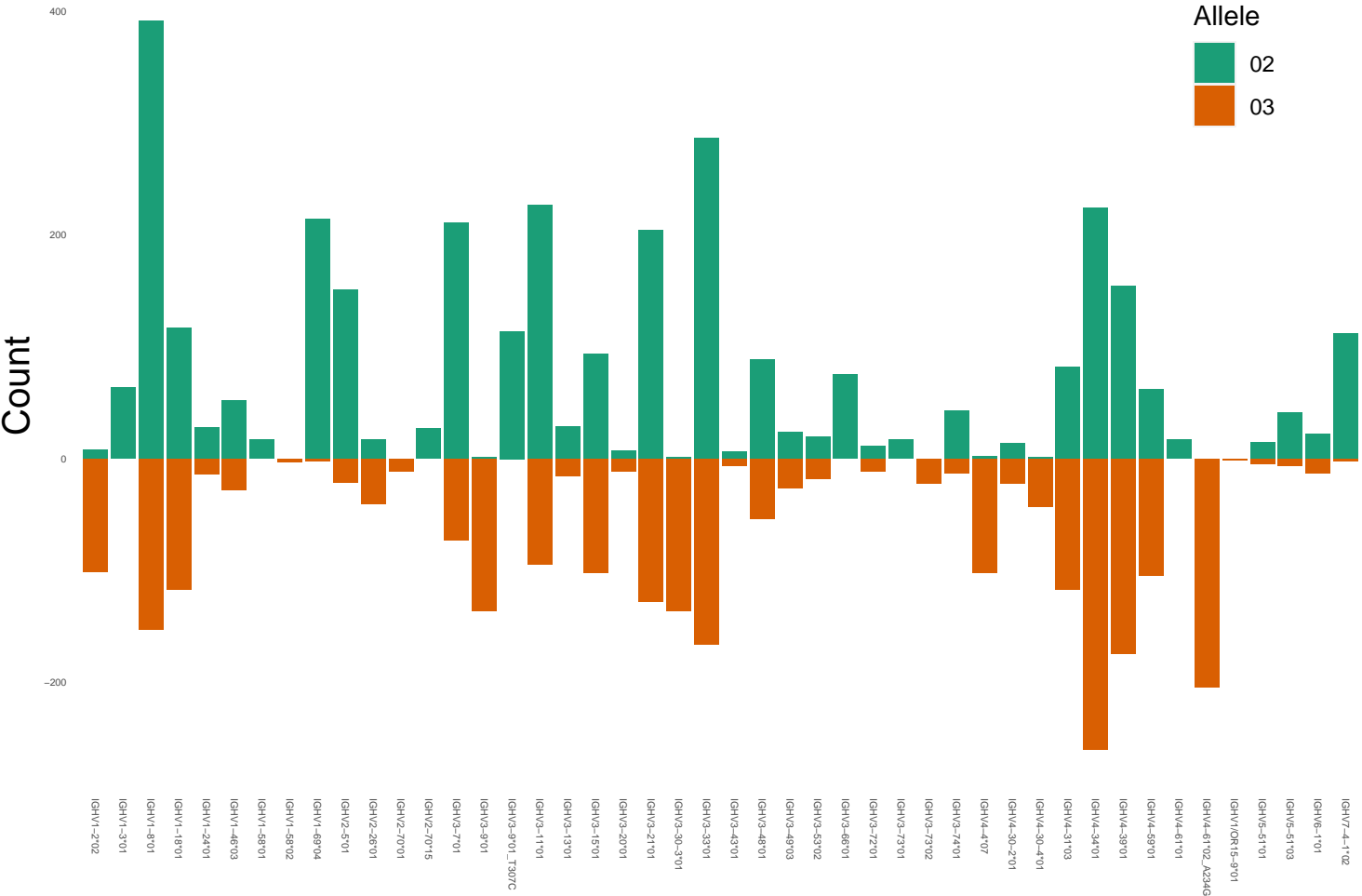


IGHV4-61*02_A234G





Sequence Count by IGHJ6 allele usage



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