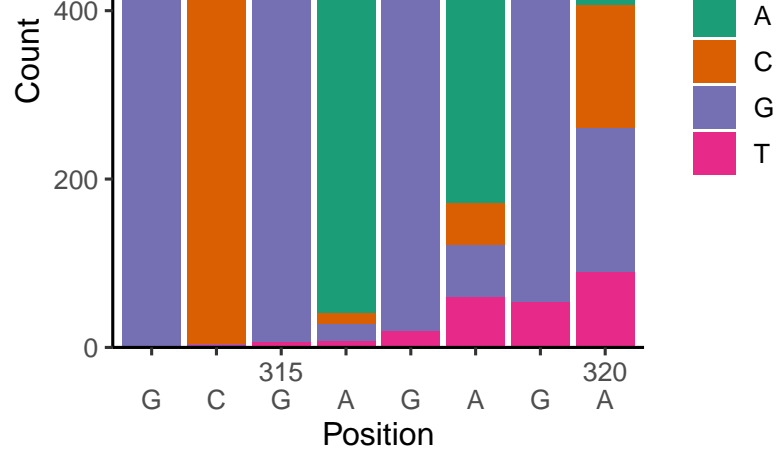
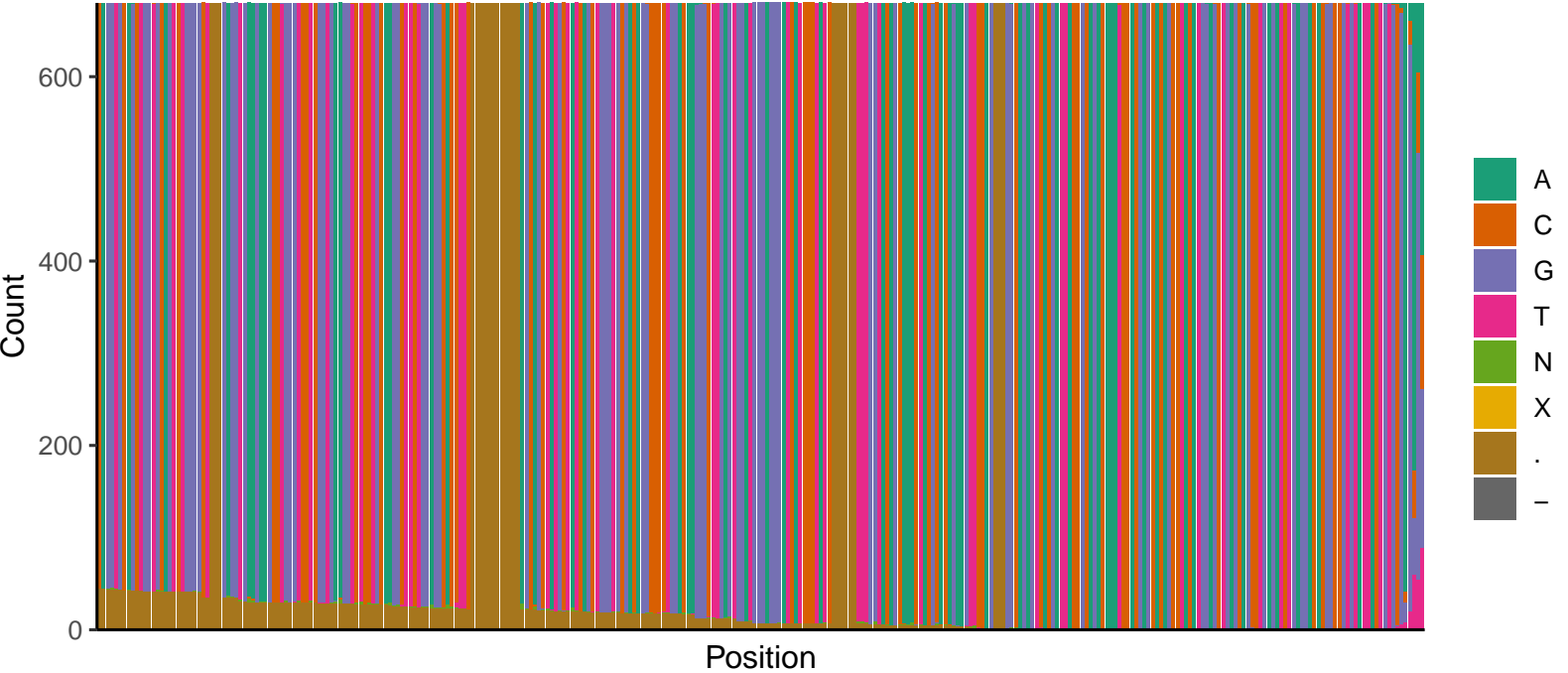


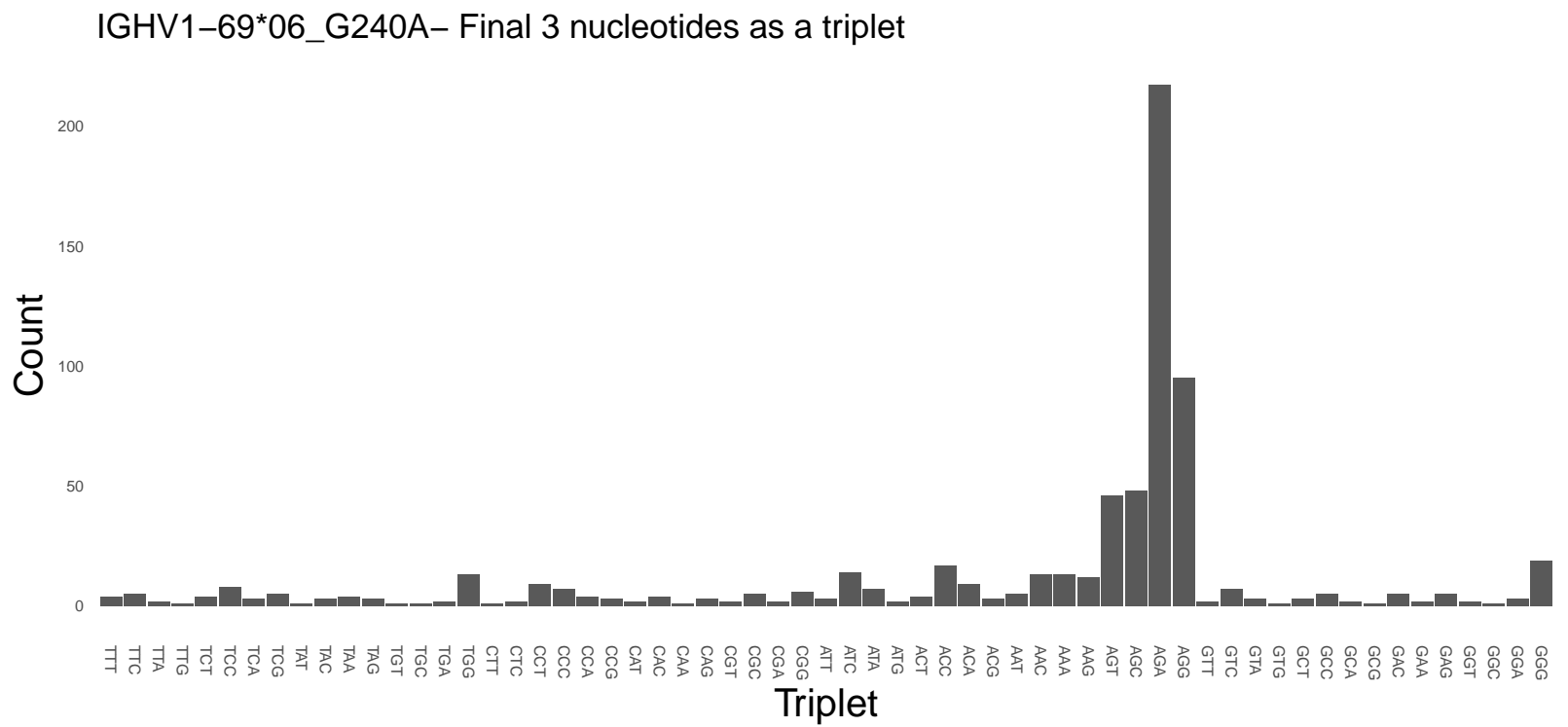
Gene IGHV1-69*06_G240A



Gene IGHV1-69*06_G240A

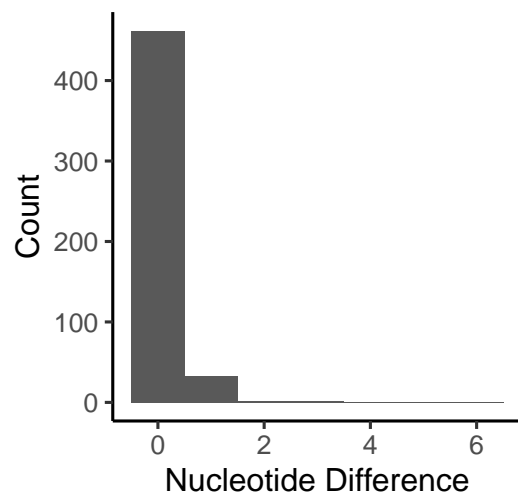


IGHV1-69*06_G240A- Final 3 nucleotides as a triplet



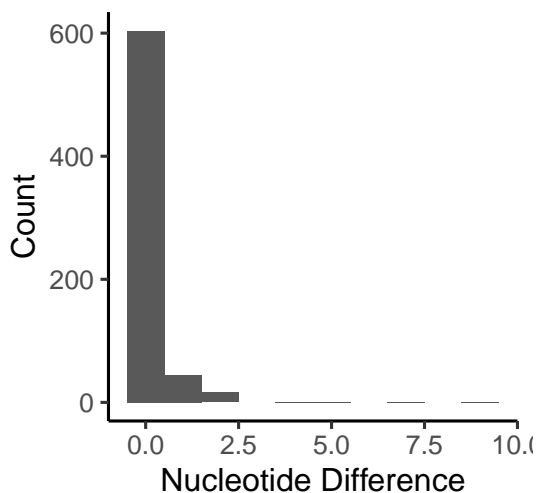
IGHV1-2*02

502 sequences assigned
462 (92%) exact matches, in which:
452 unique CDR3
6 unique J



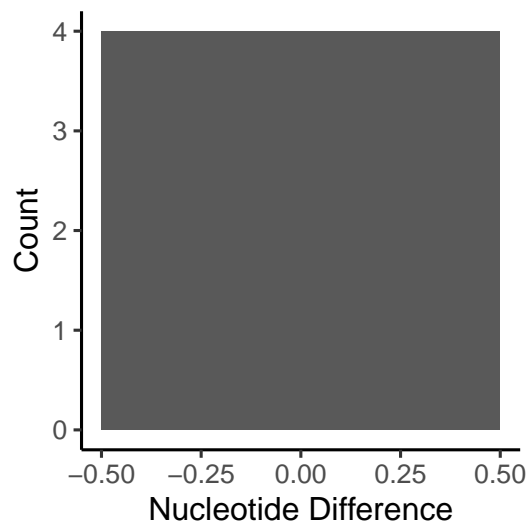
IGHV1-8*01

669 sequences assigned
604 (90.3%) exact matches, in which:
586 unique CDR3
6 unique J



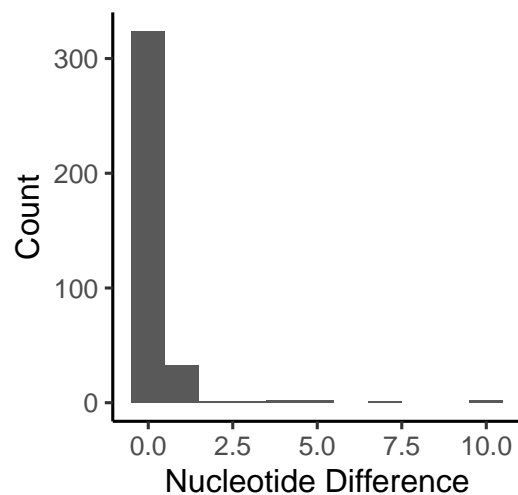
IGHV1-45*02

4 sequences assigned
4 (100%) exact matches, in which:
4 unique CDR3
2 unique J



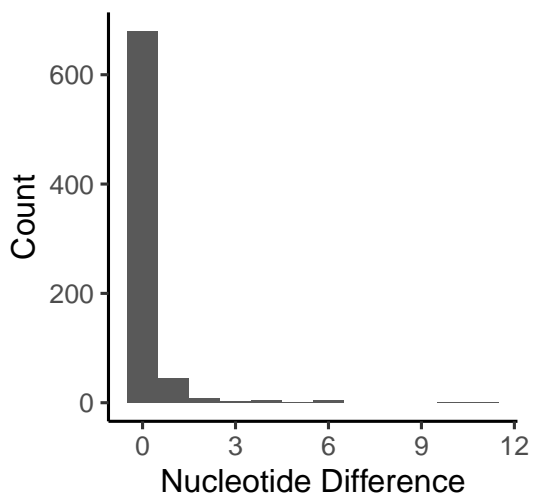
IGHV1-2*06

366 sequences assigned
324 (88.5%) exact matches, in which:
310 unique CDR3
5 unique J



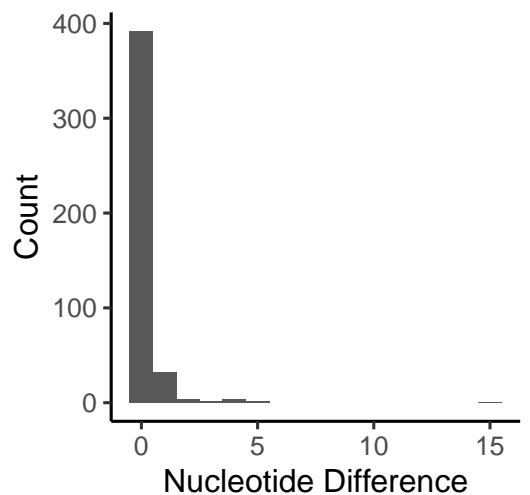
IGHV1-18*01

746 sequences assigned
680 (91.2%) exact matches, in which:
663 unique CDR3
6 unique J



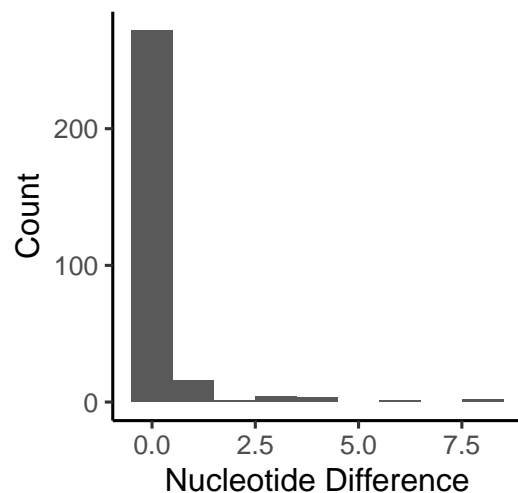
IGHV1-46*01

437 sequences assigned
392 (89.7%) exact matches, in which:
384 unique CDR3
6 unique J



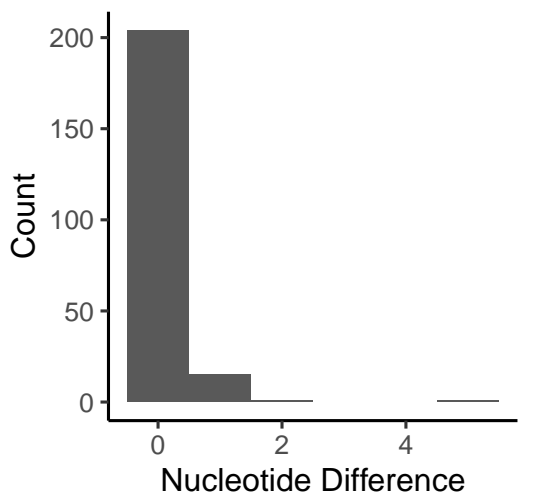
IGHV1-3*01

300 sequences assigned
272 (90.7%) exact matches, in which:
266 unique CDR3
6 unique J



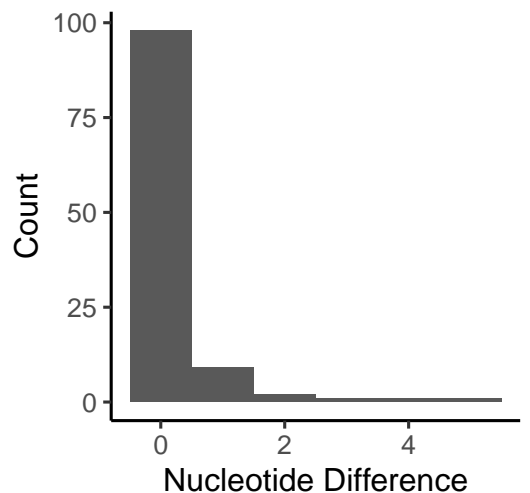
IGHV1-24*01

221 sequences assigned
204 (92.3%) exact matches, in which:
198 unique CDR3
6 unique J



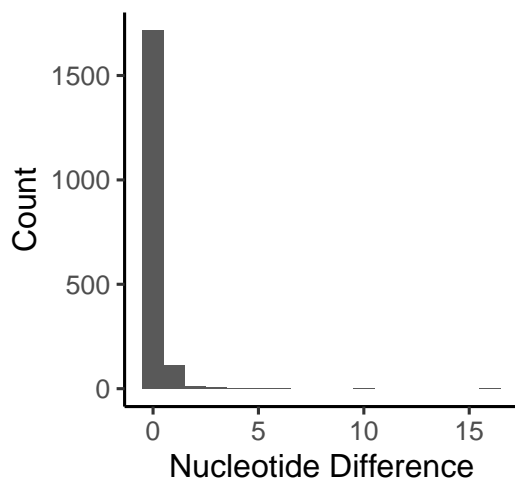
IGHV1-58*01

112 sequences assigned
98 (87.5%) exact matches, in which:
97 unique CDR3
5 unique J



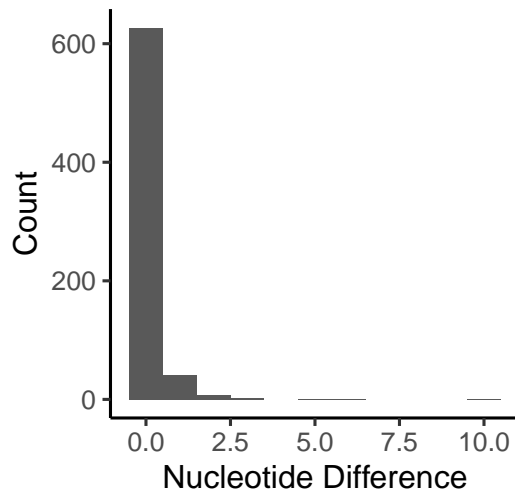
IGHV1-69*01

1856 sequences assigned
1716 (92.5%) exact matches, in which:
1659 unique CDR3
6 unique J



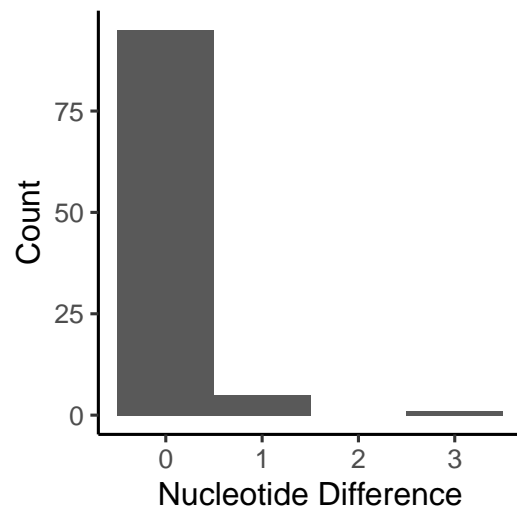
IGHV1-69*06_G240A

680 sequences assigned
627 (92.2%) exact matches, in which:
607 unique CDR3
6 unique J



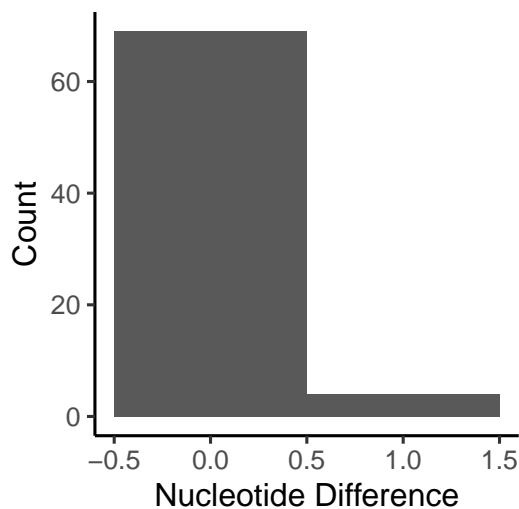
IGHV2-70*01

102 sequences assigned
95 (93.1%) exact matches, in which:
94 unique CDR3
5 unique J



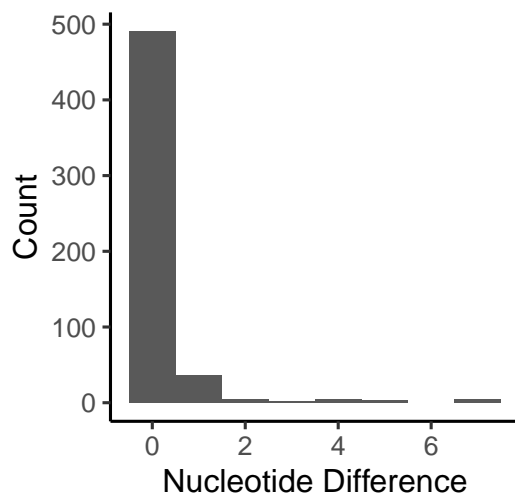
IGHV1-69-2*01

73 sequences assigned
69 (94.5%) exact matches, in which:
68 unique CDR3
6 unique J



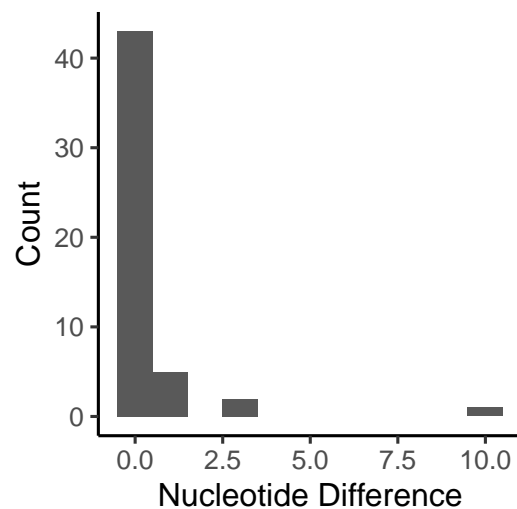
IGHV2-5*02

546 sequences assigned
491 (89.9%) exact matches, in which:
481 unique CDR3
6 unique J



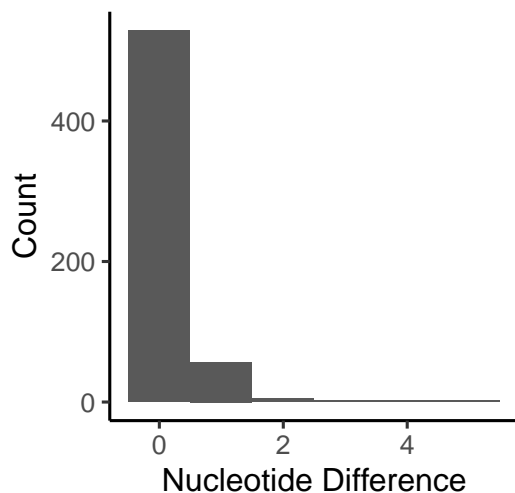
IGHV2-70*04

51 sequences assigned
43 (84.3%) exact matches, in which:
43 unique CDR3
5 unique J



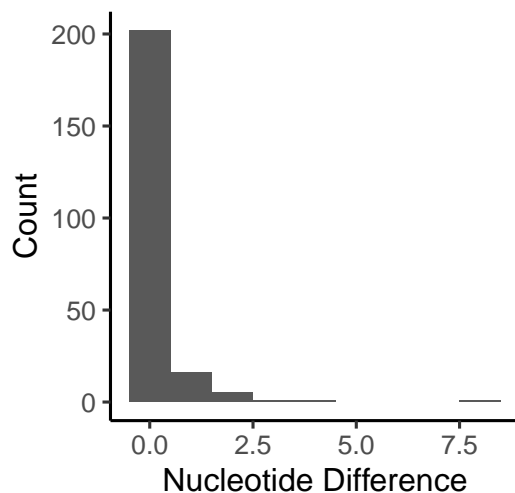
IGHV1-69*06

597 sequences assigned
529 (88.6%) exact matches, in which:
518 unique CDR3
6 unique J



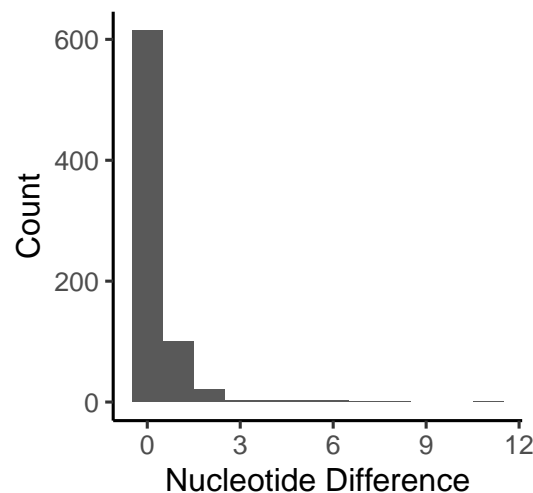
IGHV2-26*01

226 sequences assigned
202 (89.4%) exact matches, in which:
201 unique CDR3
6 unique J



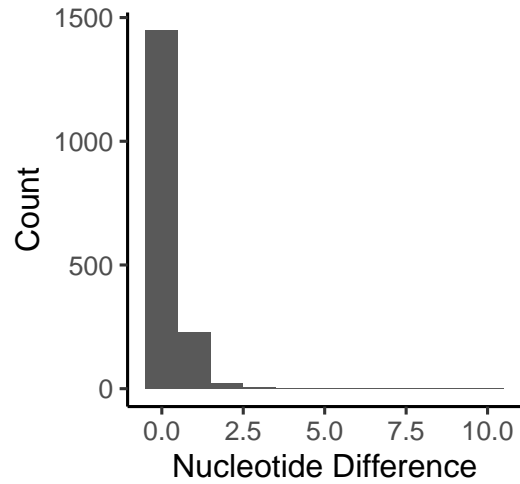
IGHV3-7*01

748 sequences assigned
615 (82.2%) exact matches, in which:
596 unique CDR3
6 unique J



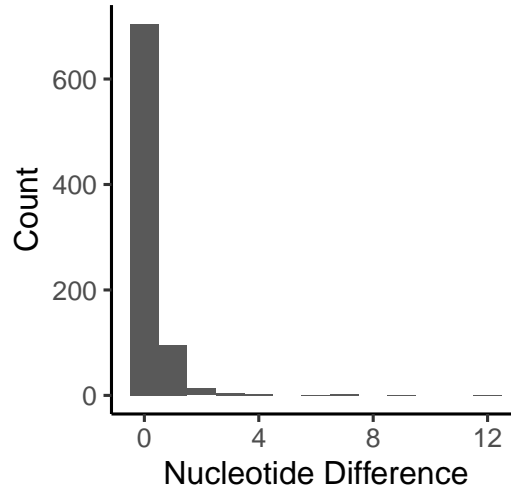
IGHV3-9*01

1712 sequences assigned
1448 (84.6%) exact matches, in which:
1369 unique CDR3
6 unique J



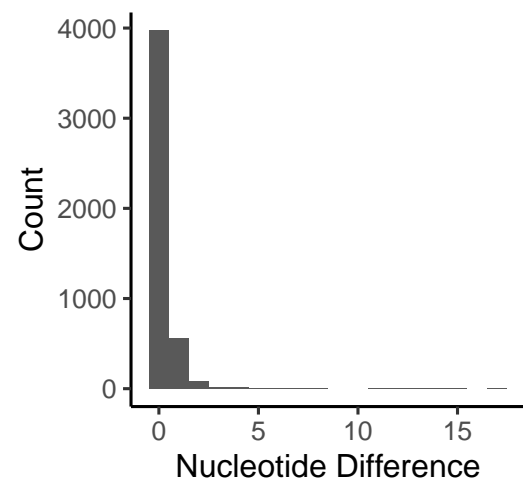
IGHV3-15*01

827 sequences assigned
705 (85.2%) exact matches, in which:
676 unique CDR3
6 unique J



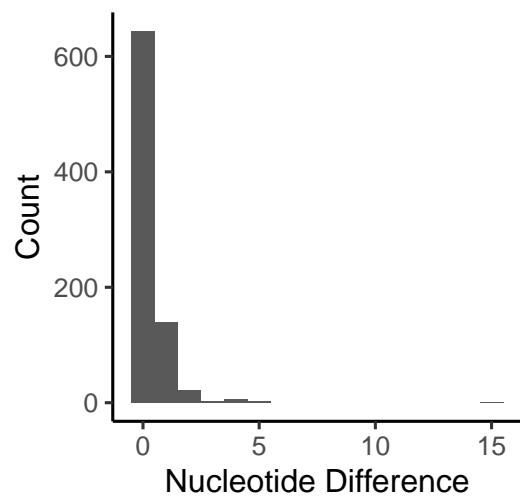
IGHV3-23*01

4679 sequences assigned
3974 (84.9%) exact matches, in which:
3755 unique CDR3
6 unique J



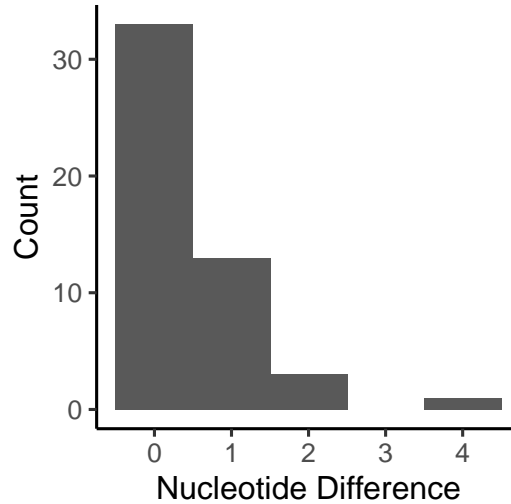
IGHV3-11*01

817 sequences assigned
644 (78.8%) exact matches, in which:
623 unique CDR3
6 unique J



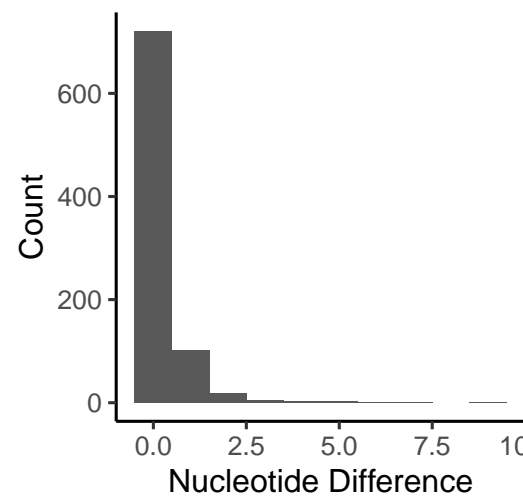
IGHV3-20*01

50 sequences assigned
33 (66%) exact matches, in which:
32 unique CDR3
6 unique J



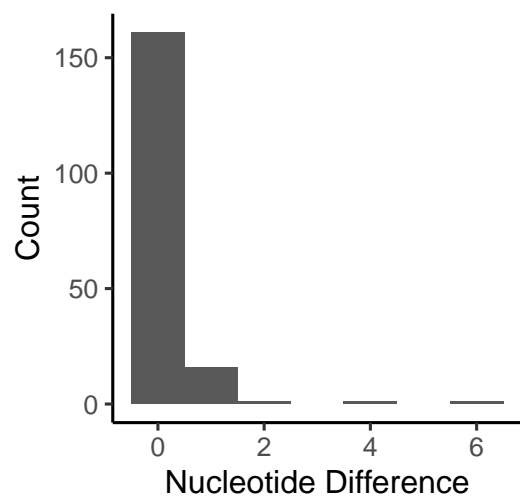
IGHV3-30-3*01

854 sequences assigned
721 (84.4%) exact matches, in which:
695 unique CDR3
6 unique J



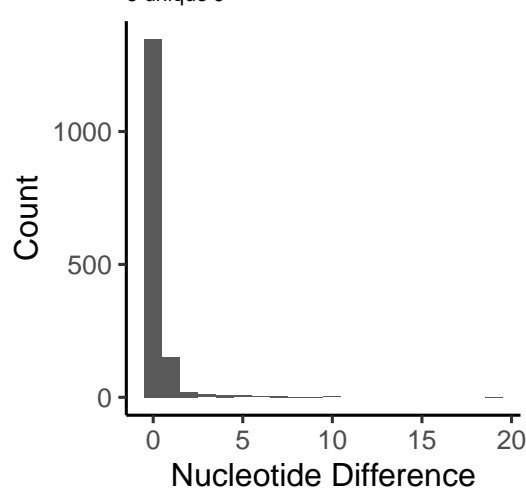
IGHV3-13*01

180 sequences assigned
161 (89.4%) exact matches, in which:
156 unique CDR3
5 unique J



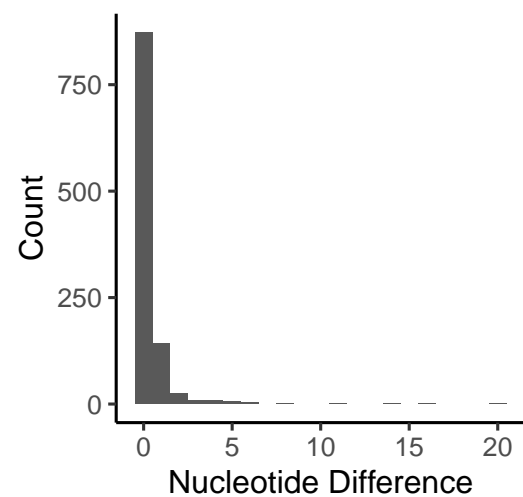
IGHV3-21*01

1559 sequences assigned
1348 (86.5%) exact matches, in which:
1279 unique CDR3
6 unique J



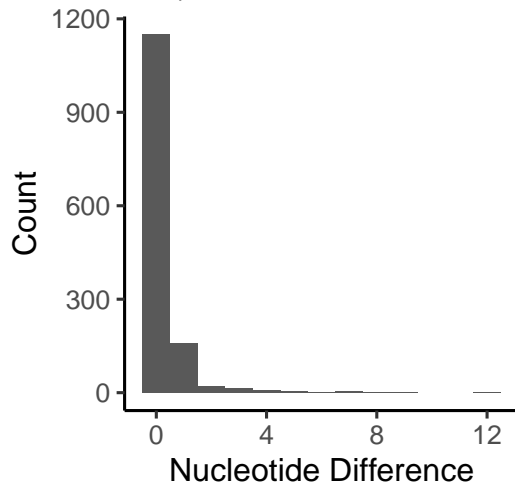
IGHV3-30*18

1070 sequences assigned
873 (81.6%) exact matches, in which:
840 unique CDR3
6 unique J



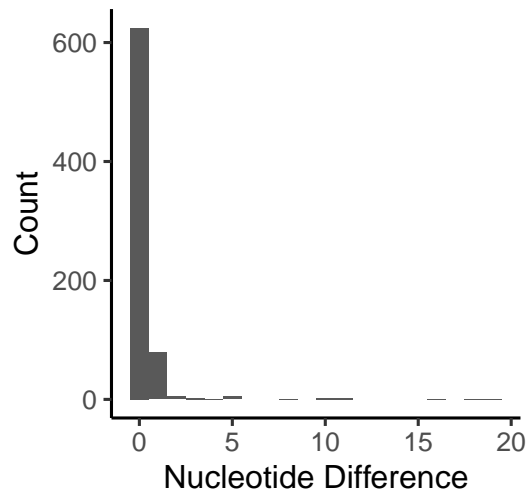
IGHV3-33*01

1372 sequences assigned
1150 (83.8%) exact matches, in which:
1085 unique CDR3
6 unique J



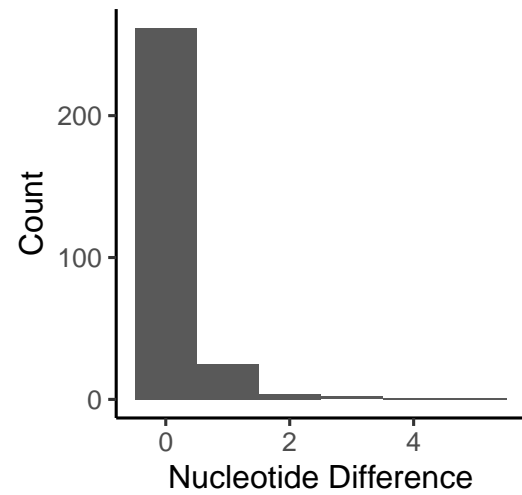
IGHV3-48*03

727 sequences assigned
625 (86%) exact matches, in which:
605 unique CDR3
6 unique J



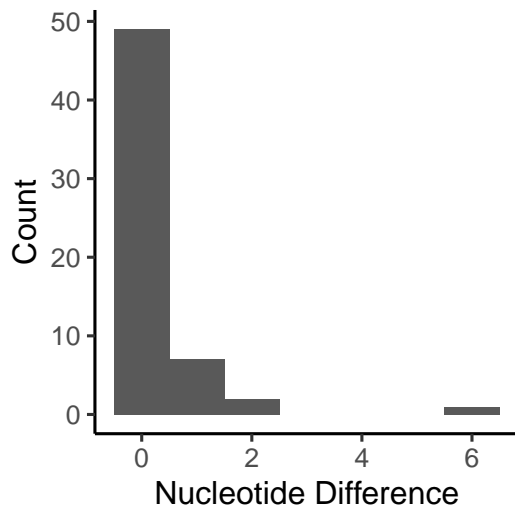
IGHV3-53*01

295 sequences assigned
262 (88.8%) exact matches, in which:
252 unique CDR3
6 unique J



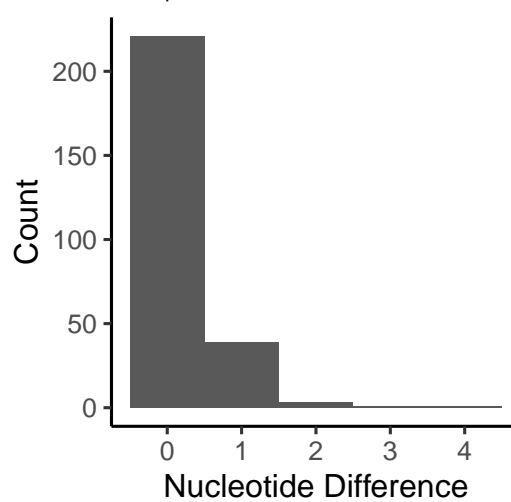
IGHV3-43*01

59 sequences assigned
49 (83.1%) exact matches, in which:
46 unique CDR3
4 unique J



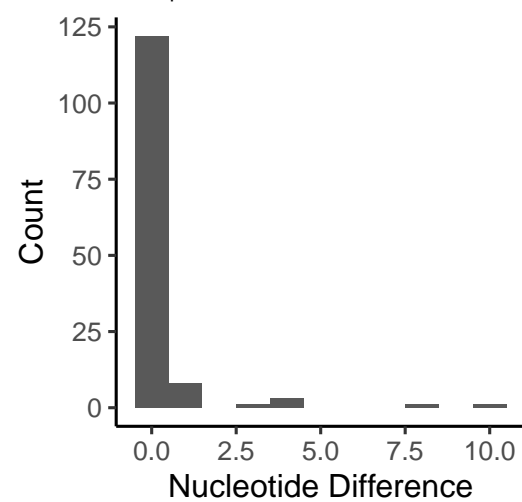
IGHV3-49*04

265 sequences assigned
221 (83.4%) exact matches, in which:
213 unique CDR3
6 unique J



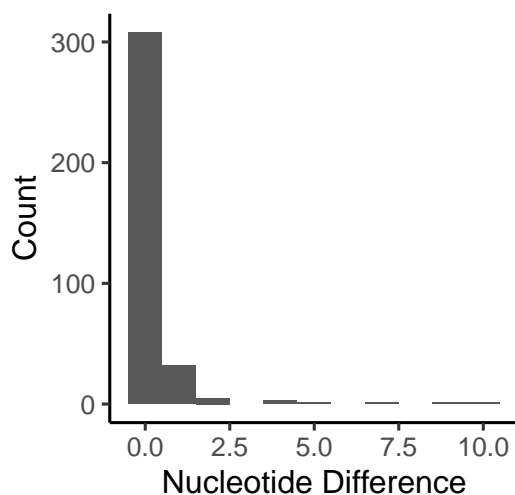
IGHV3-53*02

136 sequences assigned
122 (89.7%) exact matches, in which:
121 unique CDR3
6 unique J



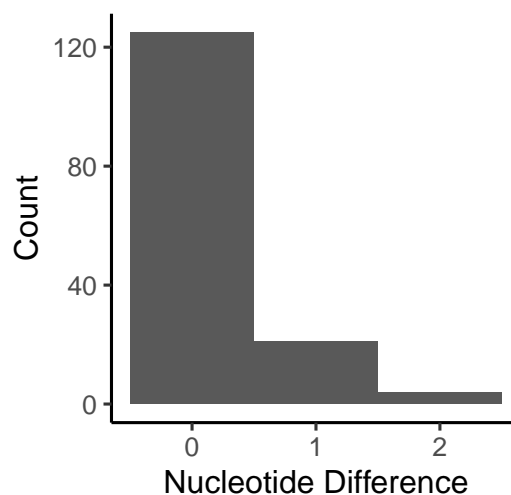
IGHV3-48*02

352 sequences assigned
308 (87.5%) exact matches, in which:
291 unique CDR3
6 unique J



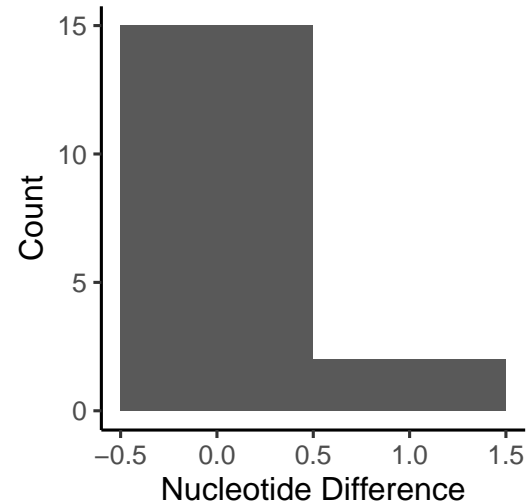
IGHV3-49*05

150 sequences assigned
125 (83.3%) exact matches, in which:
121 unique CDR3
6 unique J



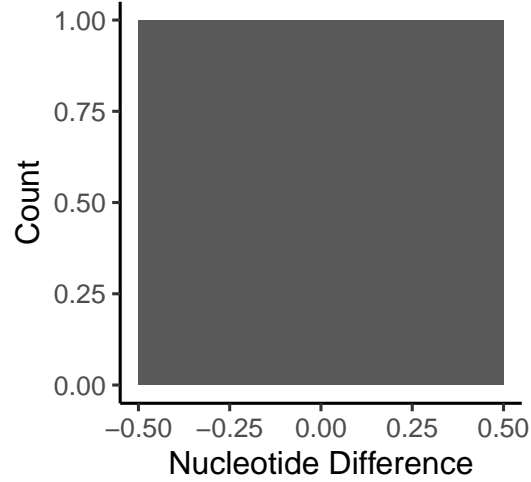
IGHV3-64*02

17 sequences assigned
15 (88.2%) exact matches, in which:
15 unique CDR3
5 unique J



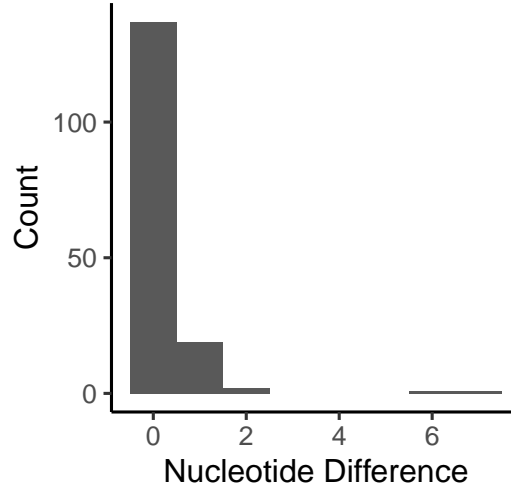
IGHV3-66*03

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



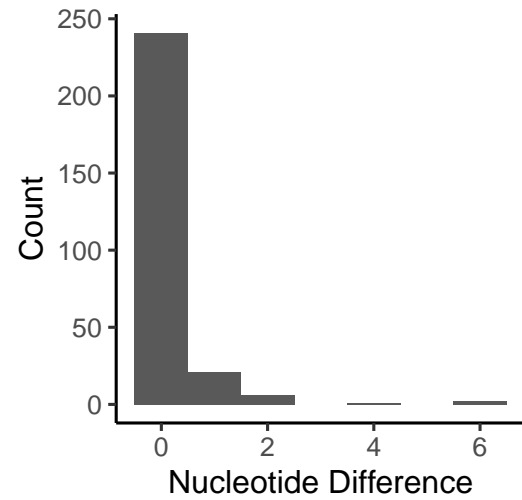
IGHV3-73*02

160 sequences assigned
137 (85.6%) exact matches, in which:
132 unique CDR3
6 unique J



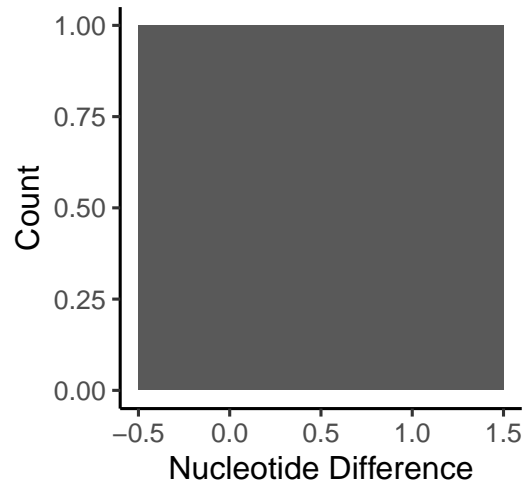
IGHV4-4*02

271 sequences assigned
241 (88.9%) exact matches, in which:
237 unique CDR3
6 unique J



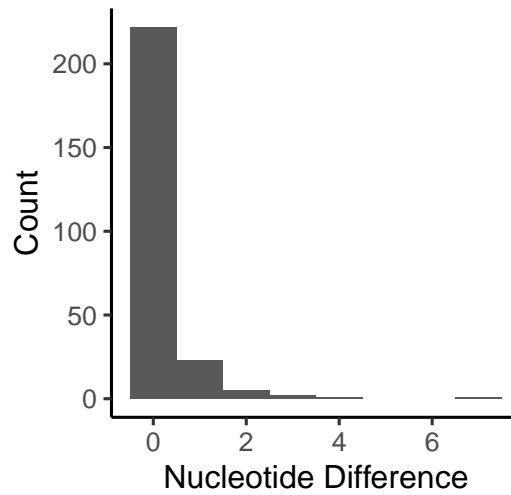
IGHV3-66*04

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



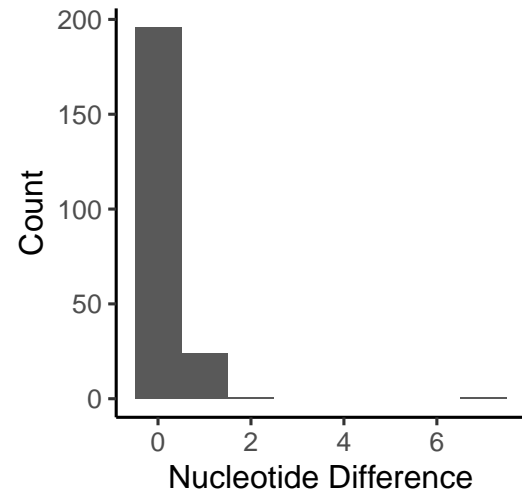
IGHV3-74*01

254 sequences assigned
222 (87.4%) exact matches, in which:
219 unique CDR3
6 unique J



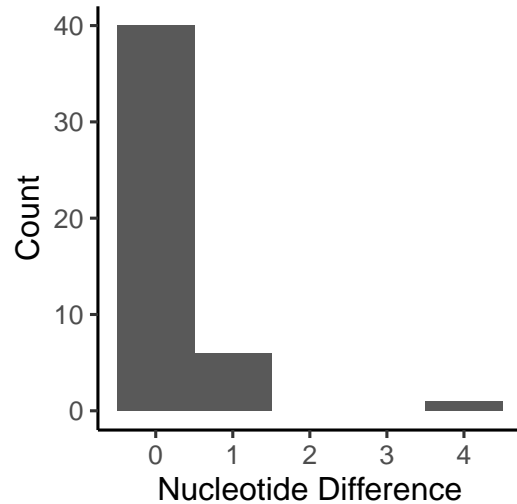
IGHV4-4*07

222 sequences assigned
196 (88.3%) exact matches, in which:
194 unique CDR3
6 unique J



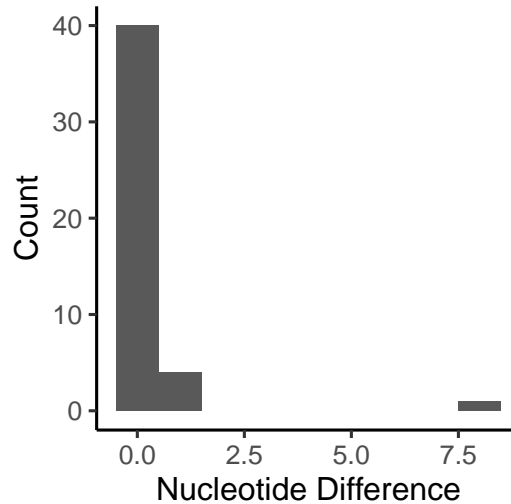
IGHV3-72*01

47 sequences assigned
40 (85.1%) exact matches, in which:
38 unique CDR3
5 unique J



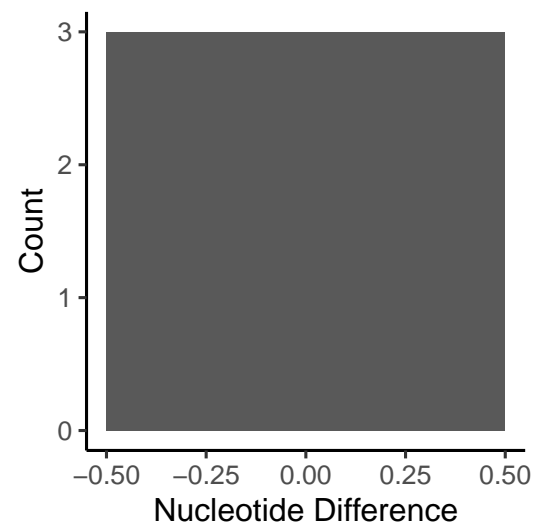
IGHV3-43D*04

45 sequences assigned
40 (88.9%) exact matches, in which:
40 unique CDR3
5 unique J



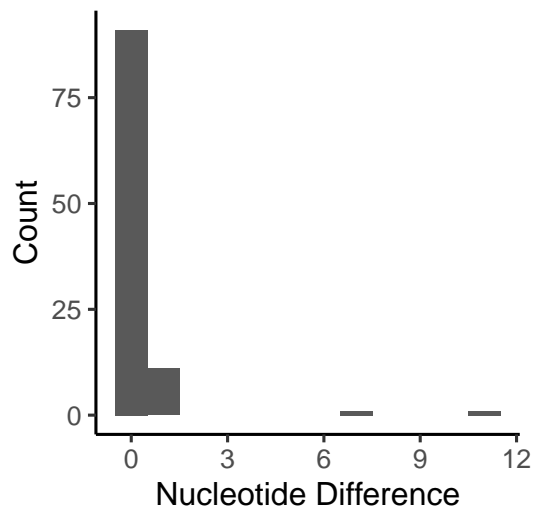
IGHV4-28*01

3 sequences assigned
3 (100%) exact matches, in which:
3 unique CDR3
3 unique J



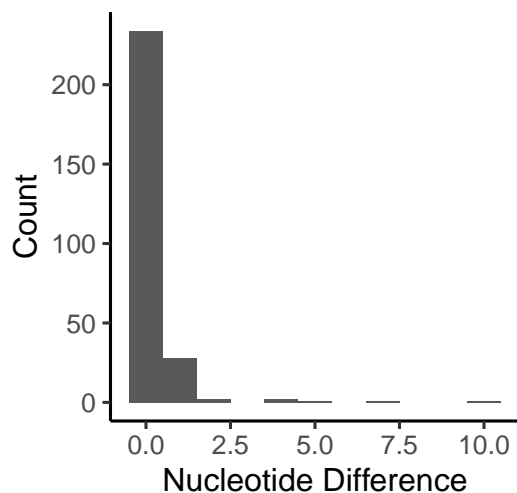
IGHV4-30-2*01

104 sequences assigned
91 (87.5%) exact matches, in which:
90 unique CDR3
5 unique J



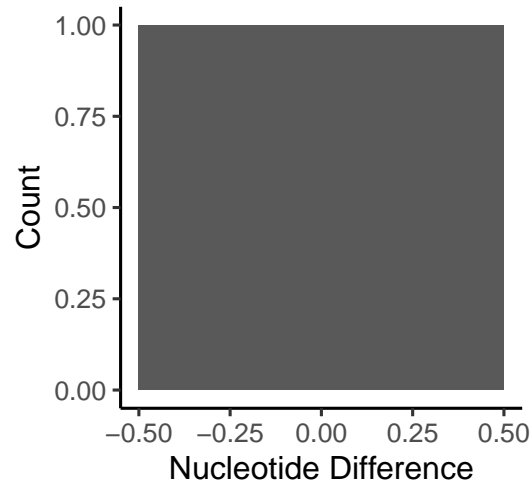
IGHV4-38-2*01

271 sequences assigned
234 (86.3%) exact matches, in which:
224 unique CDR3
6 unique J



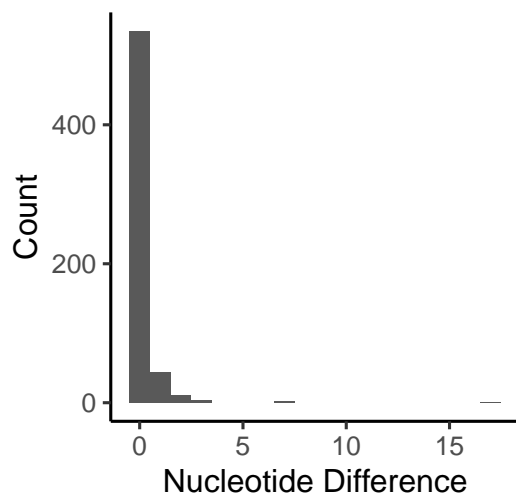
IGHV4-55*01

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



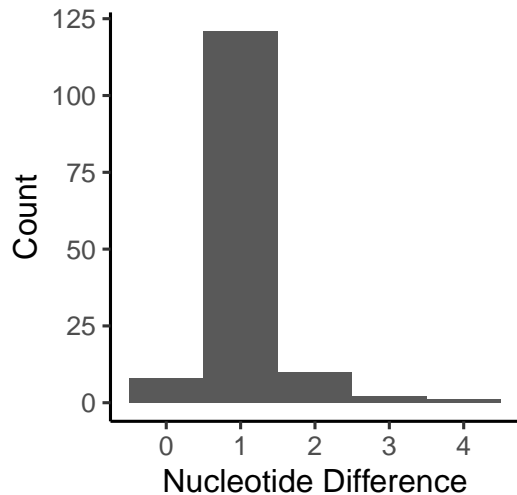
IGHV4-31*03

596 sequences assigned
535 (89.8%) exact matches, in which:
518 unique CDR3
6 unique J



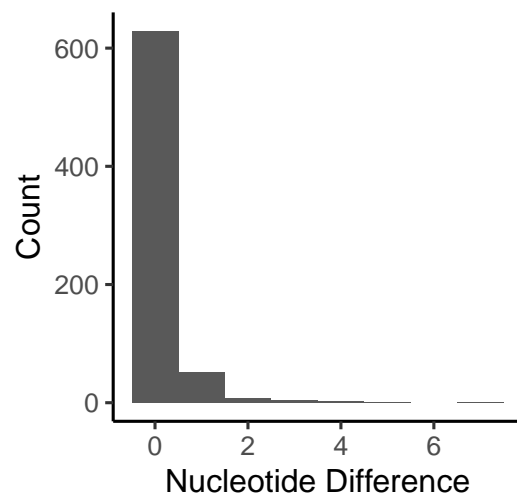
IGHV4-38-2*02

142 sequences assigned
8 (5.6%) exact matches, in which:
8 unique CDR3
4 unique J



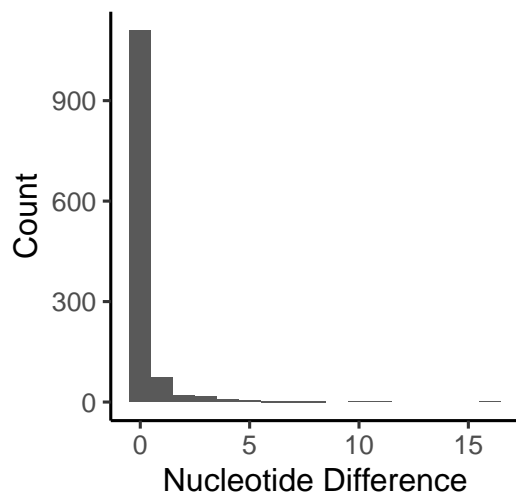
IGHV4-59*01

699 sequences assigned
629 (90%) exact matches, in which:
621 unique CDR3
6 unique J



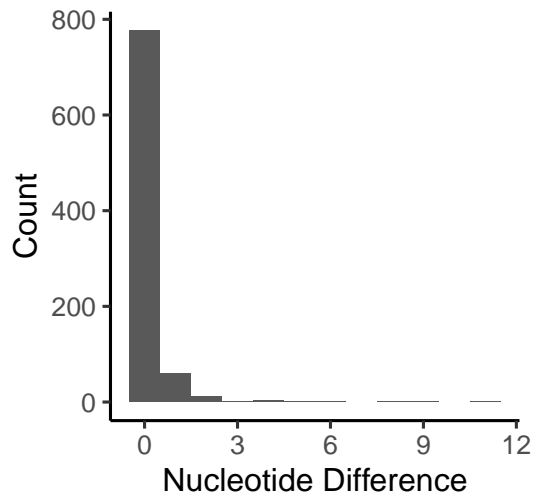
IGHV4-34*01

1245 sequences assigned
1110 (89.2%) exact matches, in which:
1071 unique CDR3
6 unique J



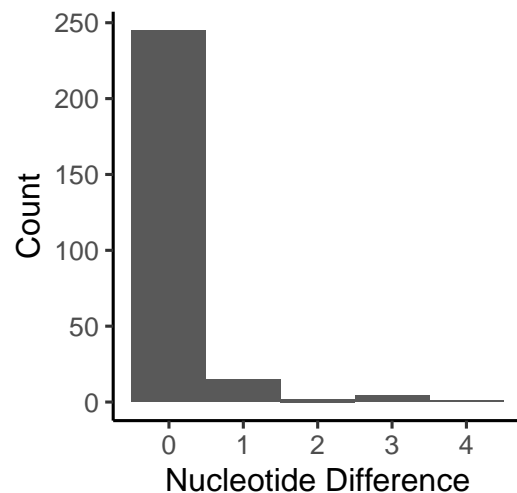
IGHV4-39*01

858 sequences assigned
777 (90.6%) exact matches, in which:
753 unique CDR3
6 unique J



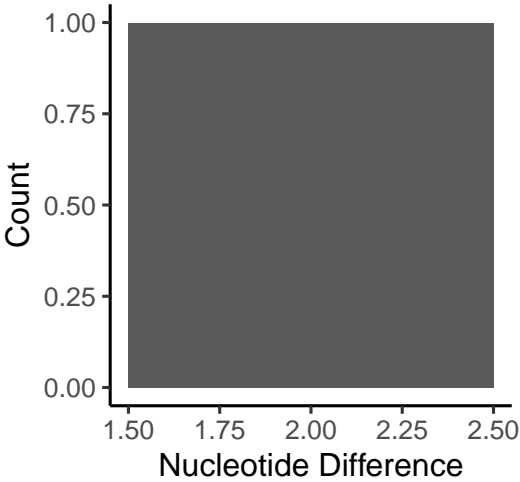
IGHV4-61*01

267 sequences assigned
245 (91.8%) exact matches, in which:
240 unique CDR3
6 unique J



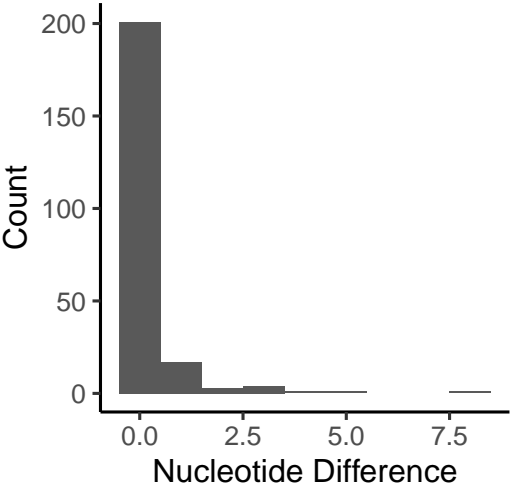
IGHV4/OR15-8*02

1 sequences assigned
No exact matches.



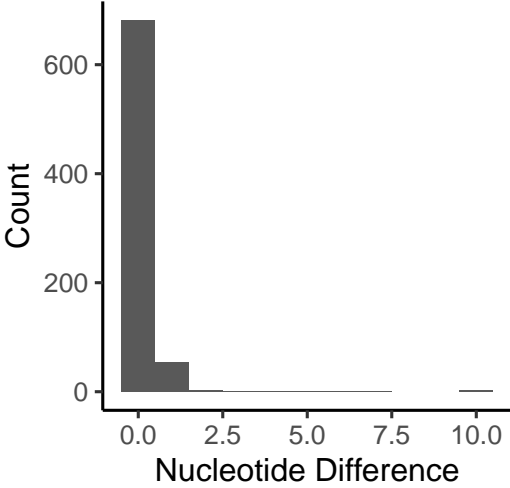
IGHV7-4-1*02

229 sequences assigned
201 (87.8%) exact matches, in which:
199 unique CDR3
6 unique J



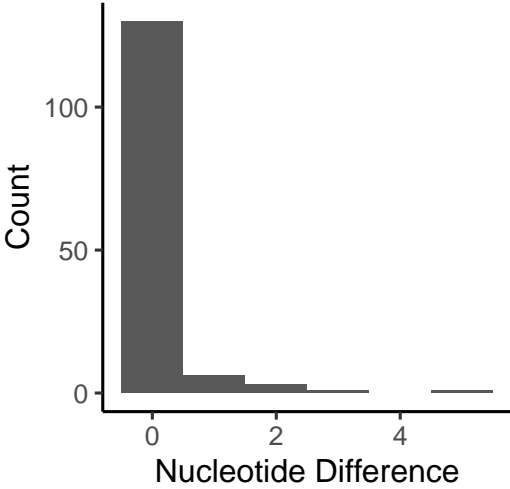
IGHV5-51*01

746 sequences assigned
682 (91.4%) exact matches, in which:
662 unique CDR3
6 unique J



IGHV6-1*01

141 sequences assigned
130 (92.2%) exact matches, in which:
127 unique CDR3
6 unique J



IGHV1-69*06_G240A

