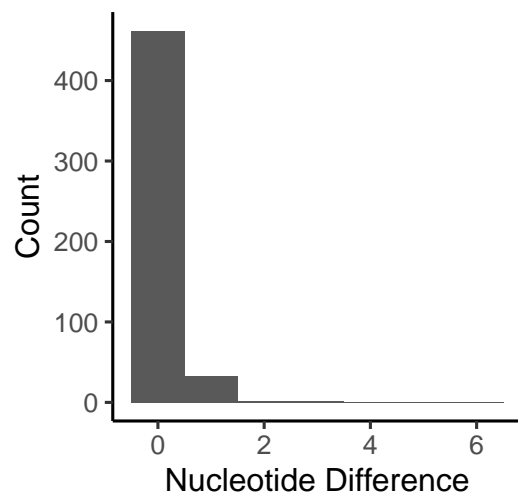


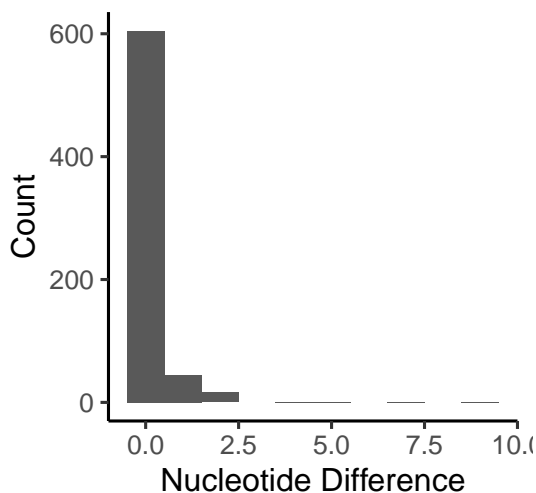
IGHV1-2*02

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



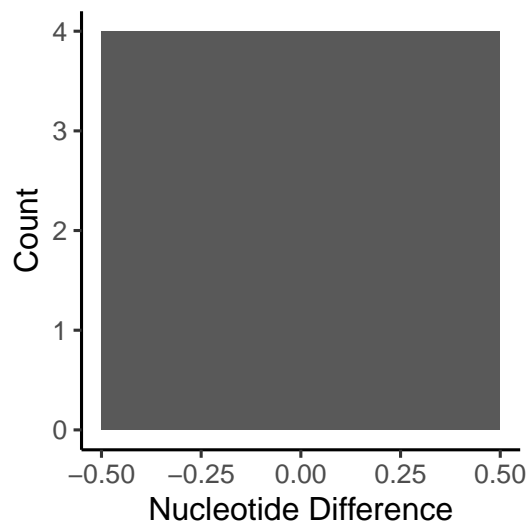
IGHV1-8*01

670 sequences assigned
605 (90.3%) exact matches, in which:
586 unique CDR3
6 unique J



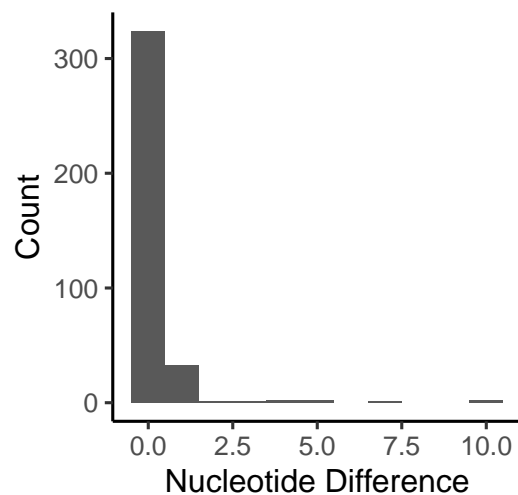
IGHV1-45*02

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



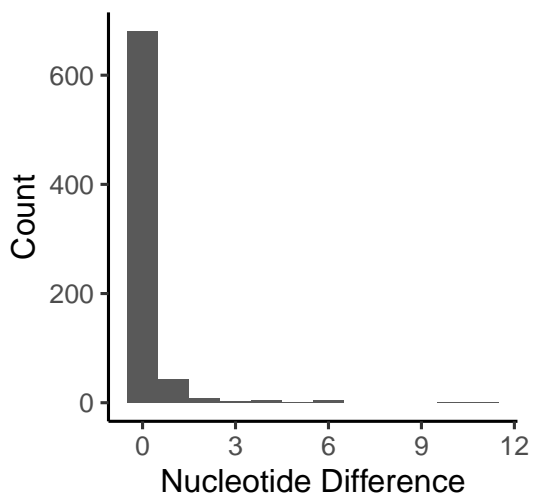
IGHV1-2*06

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



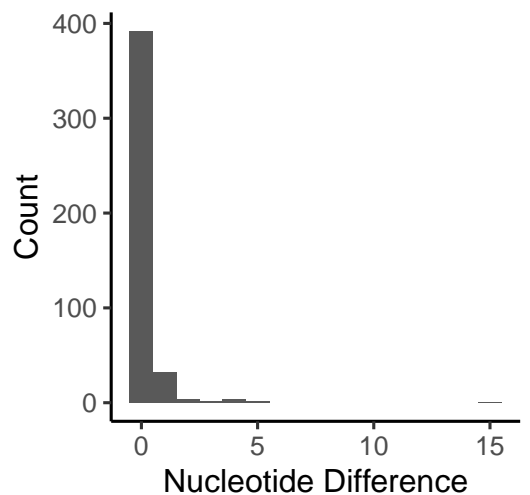
IGHV1-18*01

746 sequences assigned
681 (91.3%) exact matches, in which:
664 unique CDR3
6 unique J



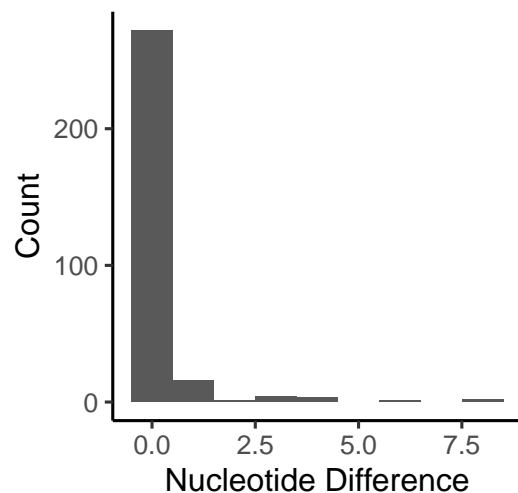
IGHV1-46*01

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



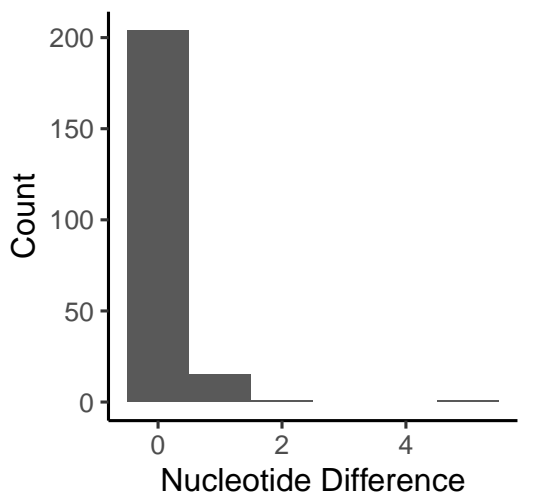
IGHV1-3*01

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



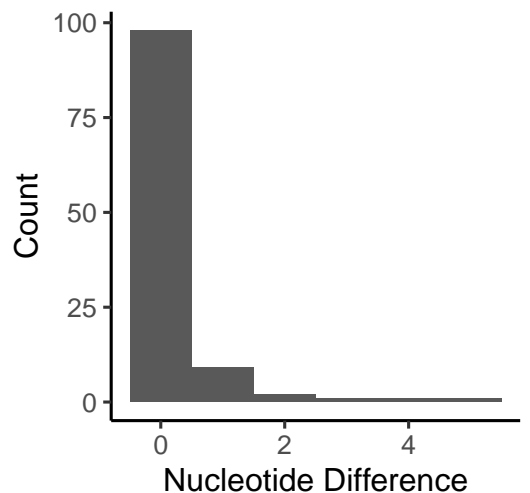
IGHV1-24*01

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



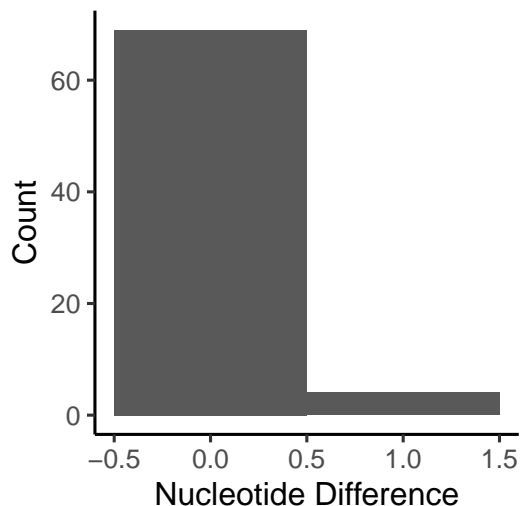
IGHV1-58*01

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



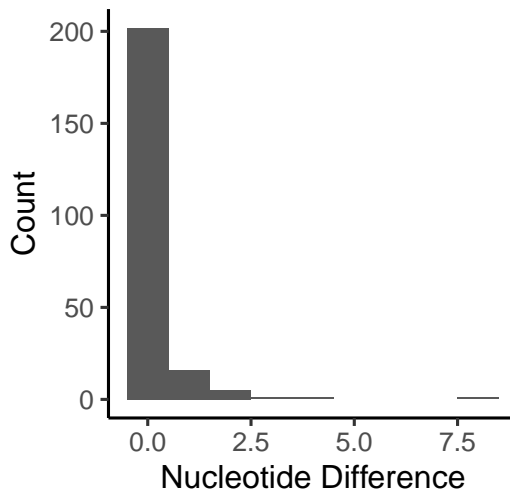
IGHV1-69-2*01

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



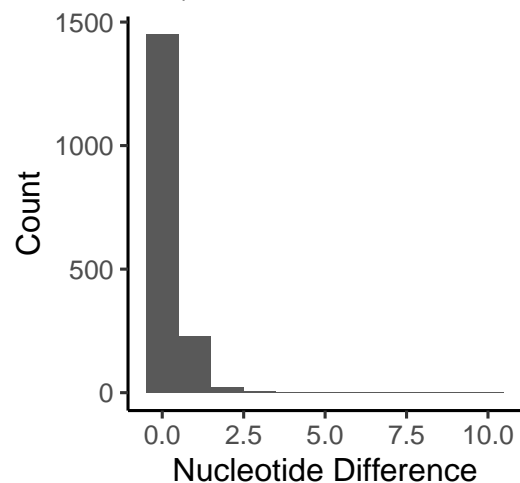
IGHV2-26*01

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



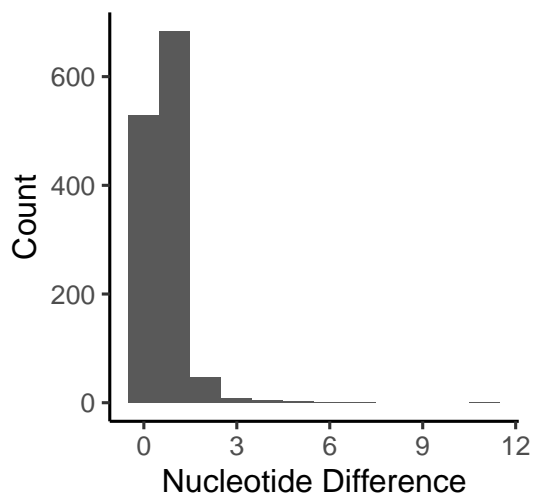
IGHV3-9*01

1714 sequences assigned
1450 (84.6%) exact matches, in which:
1369 unique CDR3
6 unique J



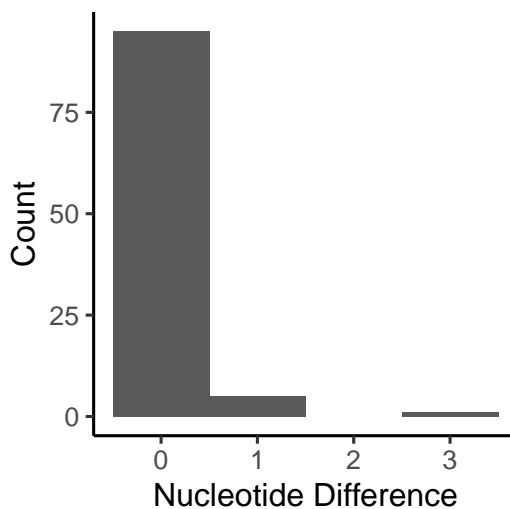
IGHV1-69*06

1278 sequences assigned
529 (41.4%) exact matches, in which:
518 unique CDR3
6 unique J



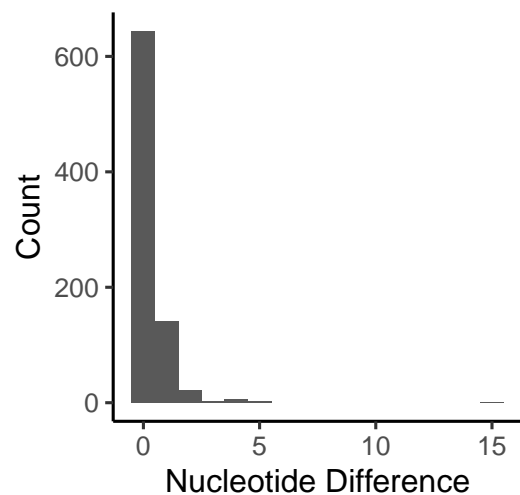
IGHV2-70*01

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



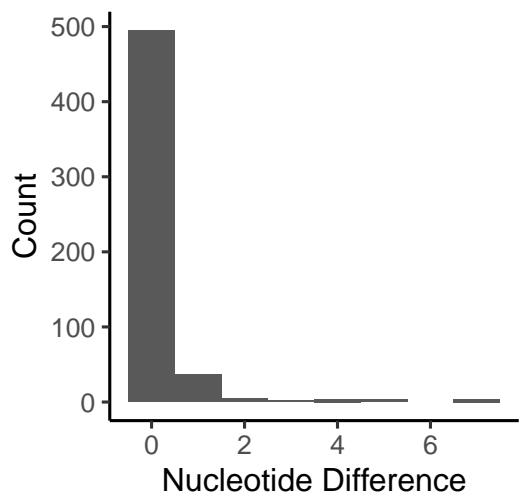
IGHV3-11*01

819 sequences assigned
644 (78.6%) exact matches, in which:
623 unique CDR3
6 unique J



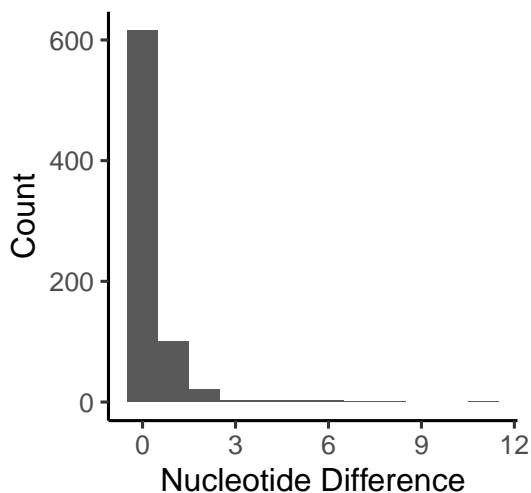
IGHV2-5*02

550 sequences assigned
495 (90%) exact matches, in which:
485 unique CDR3
6 unique J



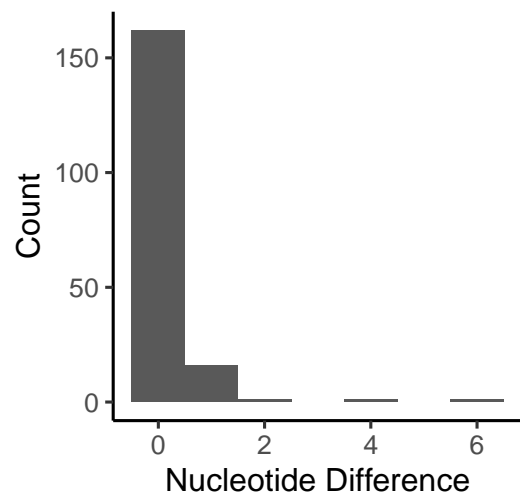
IGHV3-7*01

749 sequences assigned
616 (82.2%) exact matches, in which:
597 unique CDR3
6 unique J



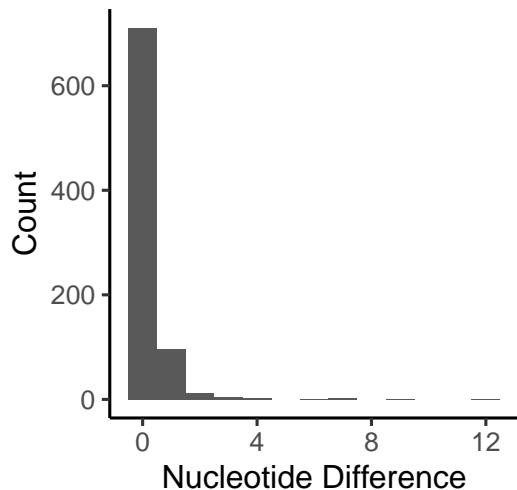
IGHV3-13*01

181 sequences assigned
162 (89.5%) exact matches, in which:
157 unique CDR3
5 unique J



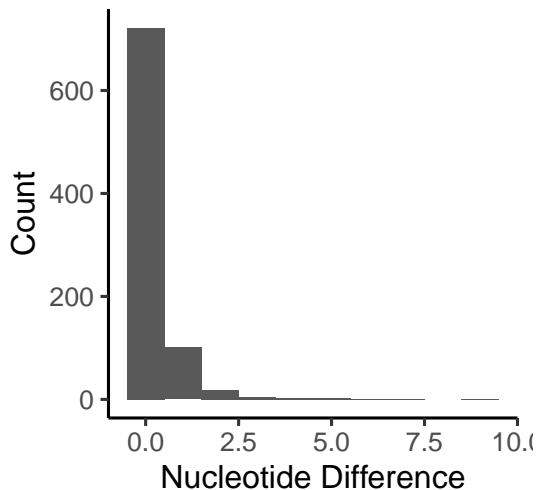
IGHV3-15*01

833 sequences assigned
711 (85.4%) exact matches, in which:
682 unique CDR3
6 unique J



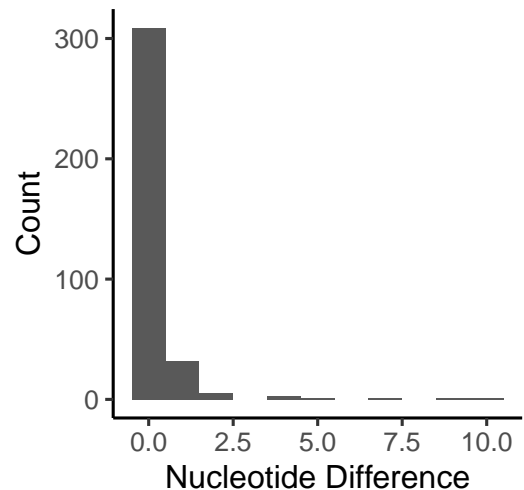
IGHV3-30-3*01

855 sequences assigned
722 (84.4%) exact matches, in which:
696 unique CDR3
6 unique J



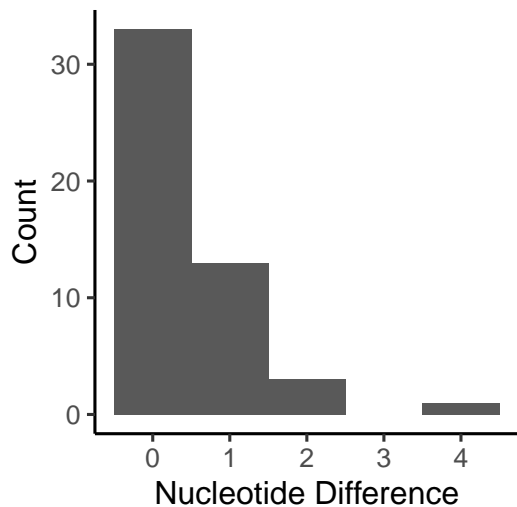
IGHV3-48*02

353 sequences assigned
309 (87.5%) exact matches, in which:
292 unique CDR3
6 unique J



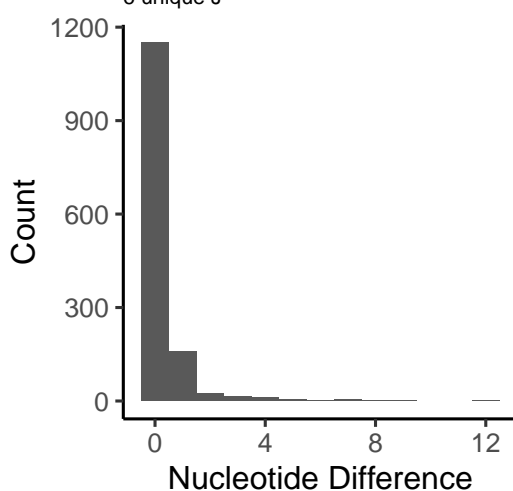
IGHV3-20*01

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



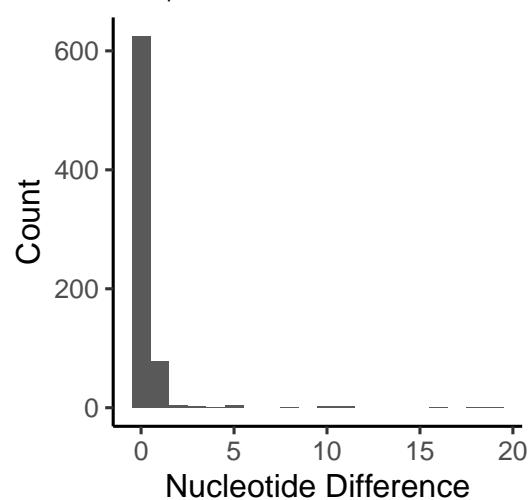
IGHV3-33*01

1375 sequences assigned
1150 (83.6%) exact matches, in which:
1085 unique CDR3
6 unique J



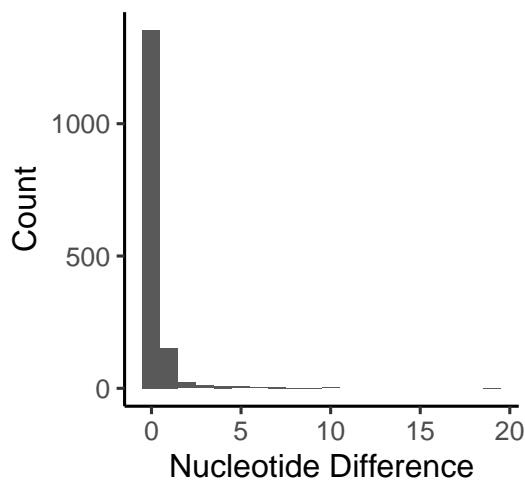
IGHV3-48*03

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



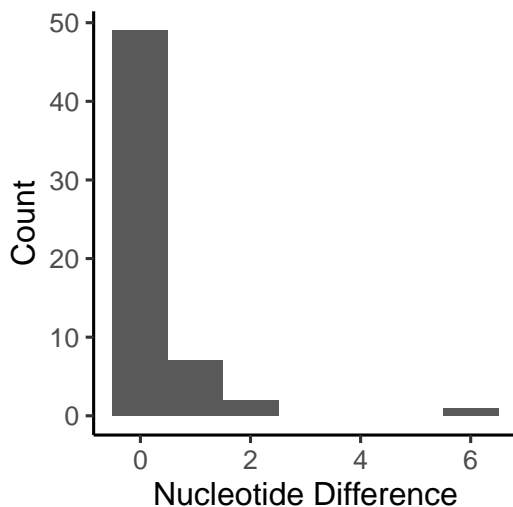
IGHV3-21*01

1568 sequences assigned
1354 (86.4%) exact matches, in which:
1285 unique CDR3
6 unique J



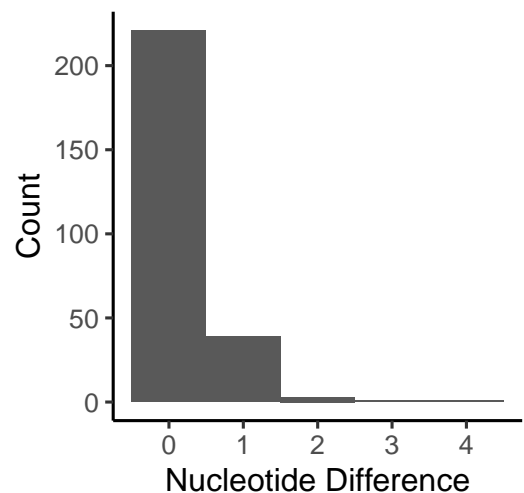
IGHV3-43*01

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



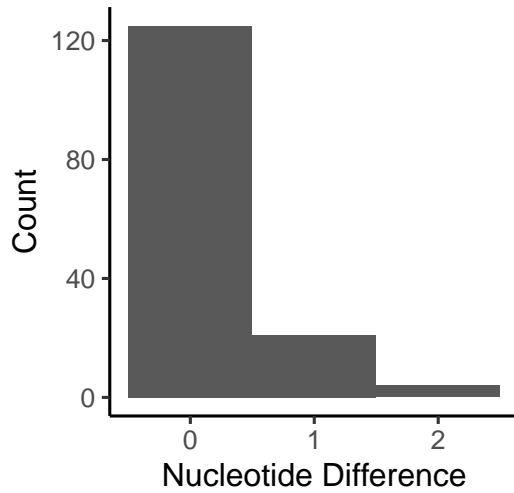
IGHV3-49*04

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



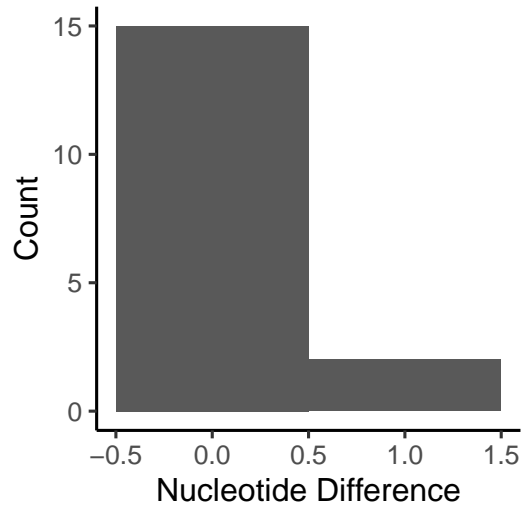
IGHV3-49*05

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



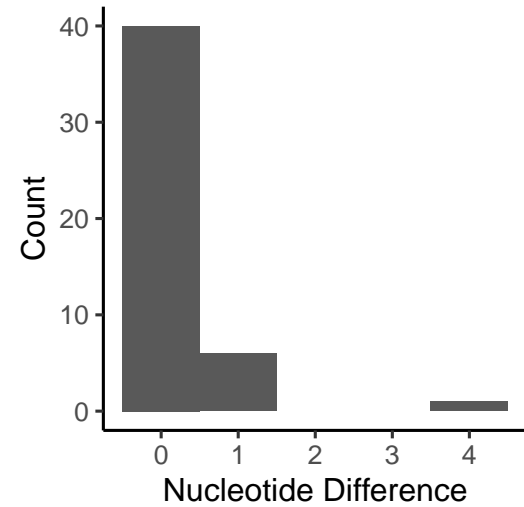
IGHV3-64*02

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



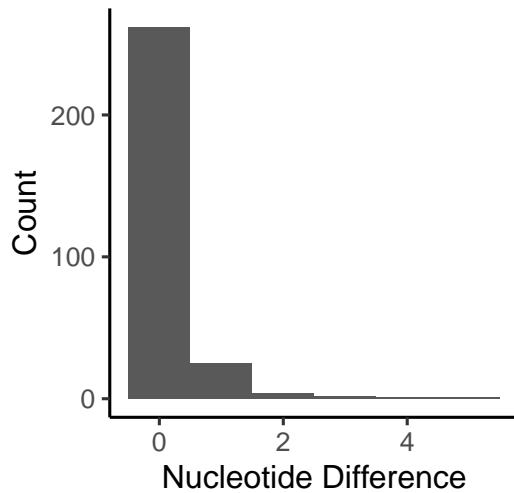
IGHV3-72*01

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



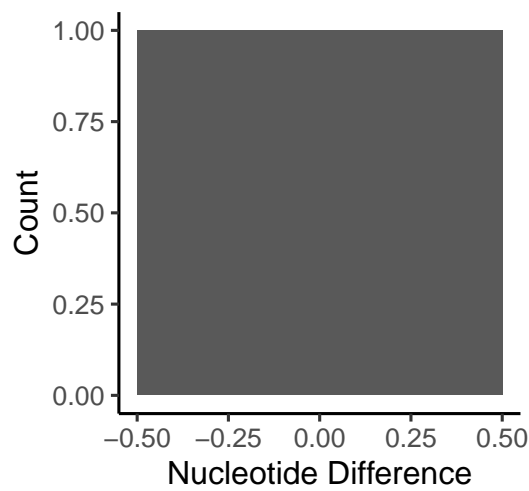
IGHV3-53*01

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



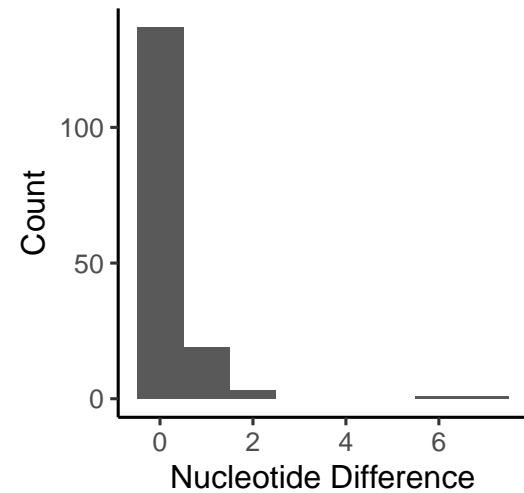
IGHV3-66*03

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



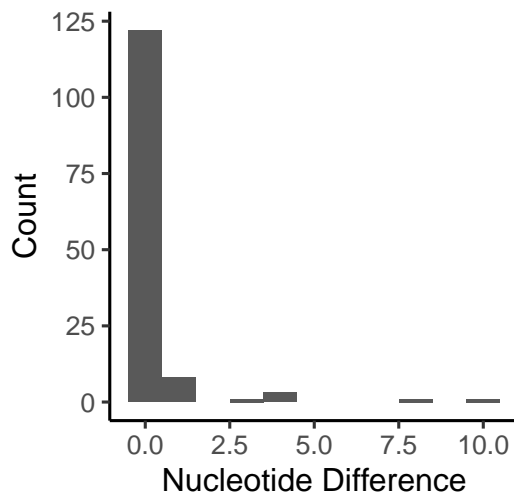
IGHV3-73*02

161 sequences assigned
137 (85.1%) exact matches, in which:
132 unique CDR3
6 unique J



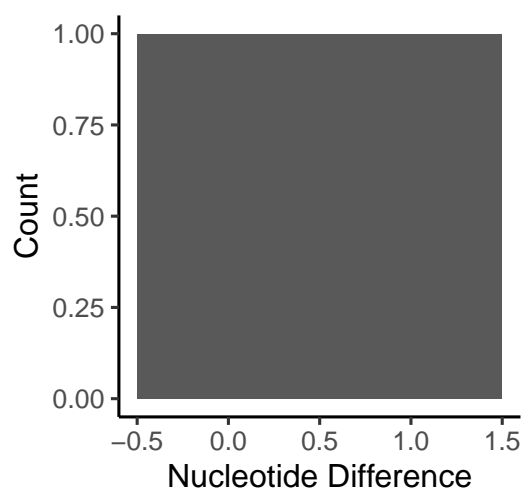
IGHV3-53*02

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



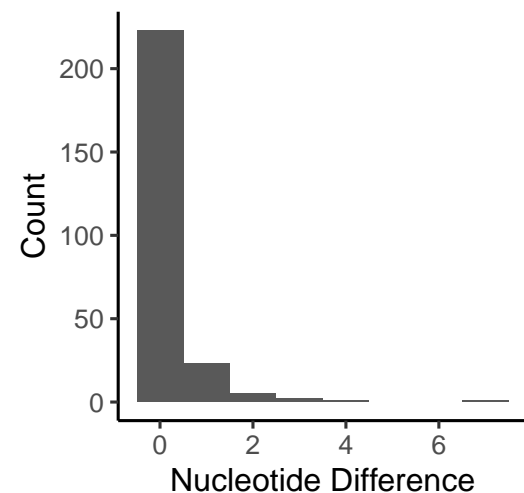
IGHV3-66*04

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



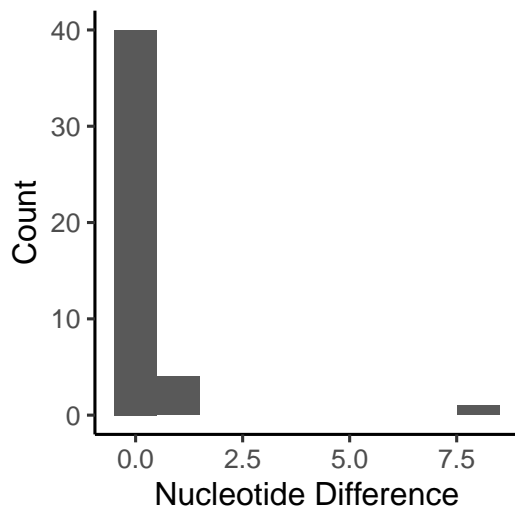
IGHV3-74*01

255 sequences assigned
223 (87.5%) exact matches, in which:
220 unique CDR3
6 unique J



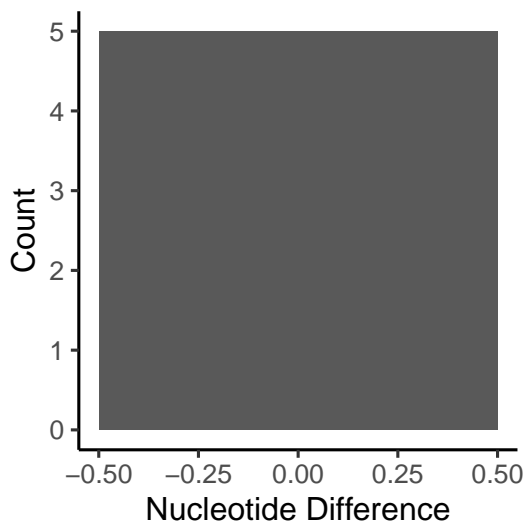
IGHV3-43D*04

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



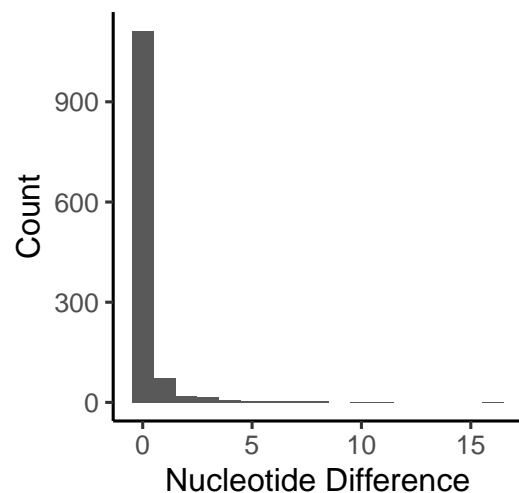
IGHV4-28*01

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



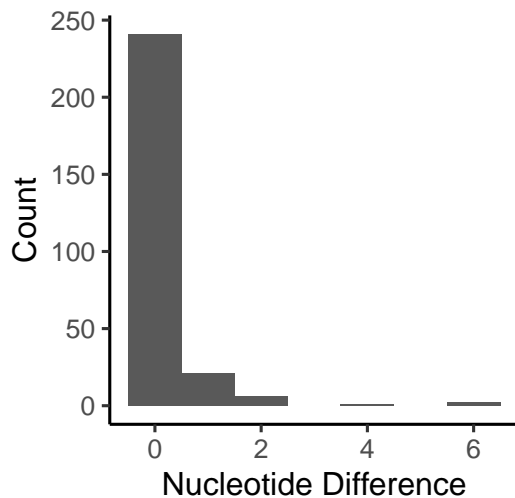
IGHV4-34*01

1249 sequences assigned
1113 (89.1%) exact matches, in which:
1074 unique CDR3
6 unique J



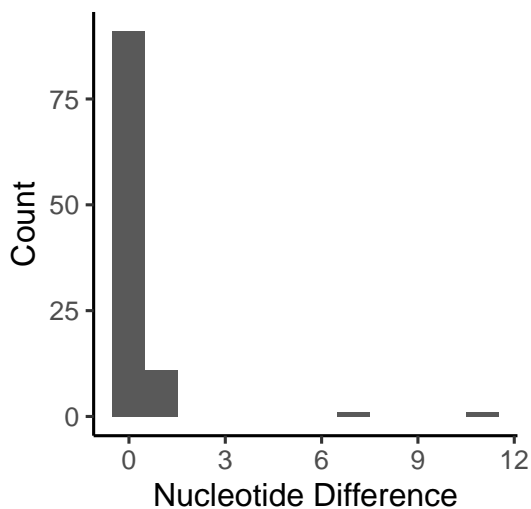
IGHV4-4*02

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



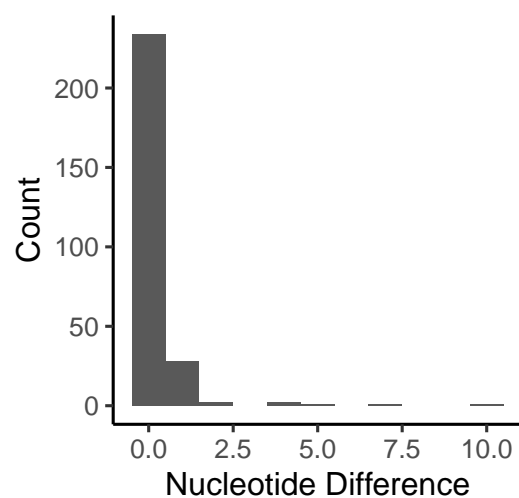
IGHV4-30-2*01

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



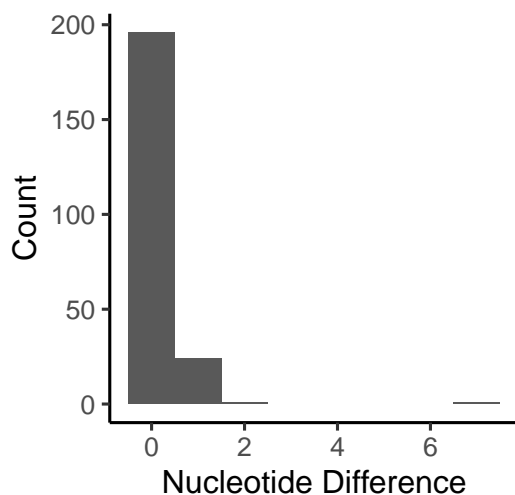
IGHV4-38-2*01

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



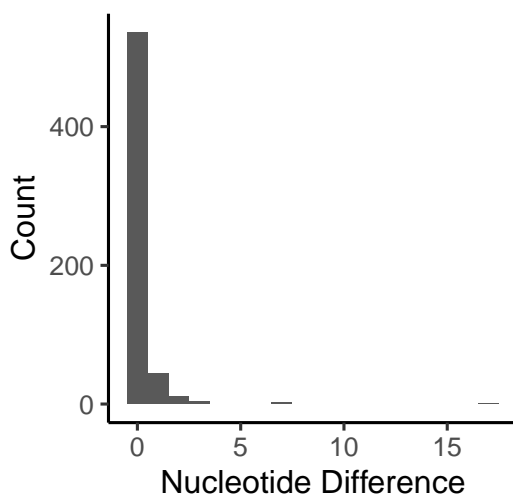
IGHV4-4*07

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



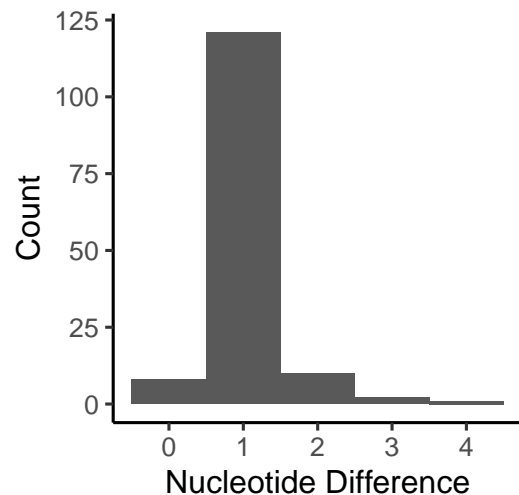
IGHV4-31*03

597 sequences assigned
536 (89.8%) exact matches, in which:
519 unique CDR3
6 unique J



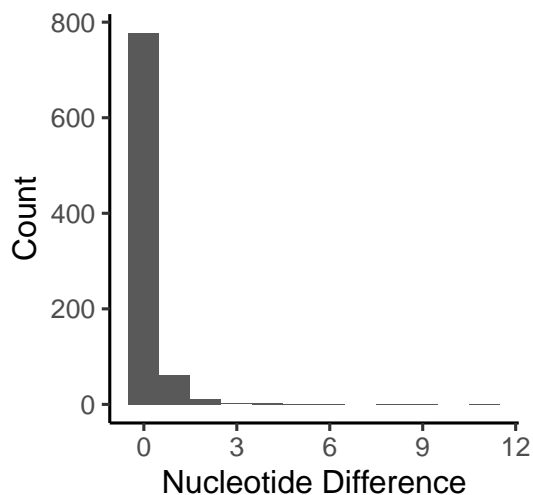
IGHV4-38-2*02

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



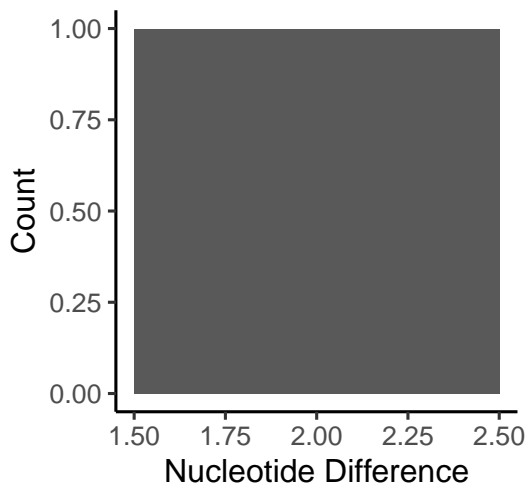
IGHV4-39*01

860 sequences assigned
778 (90.5%) exact matches, in which:
754 unique CDR3
6 unique J



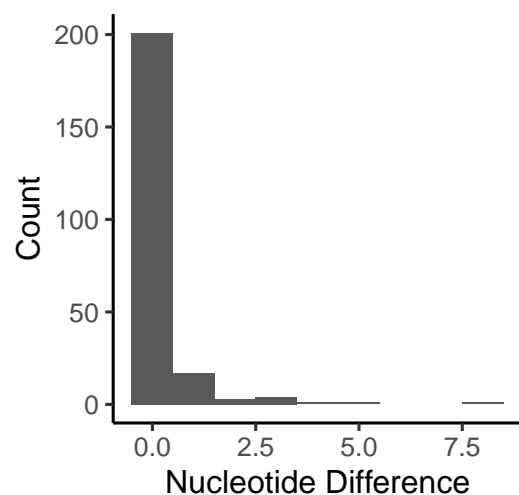
IGHV4/OR15-8*02

1 sequences assigned
No exact matches.



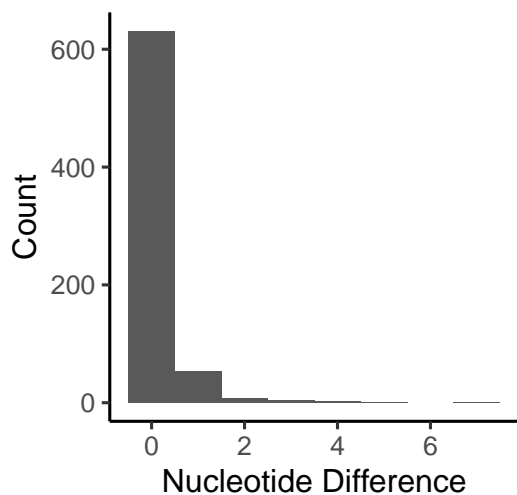
IGHV7-4-1*02

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



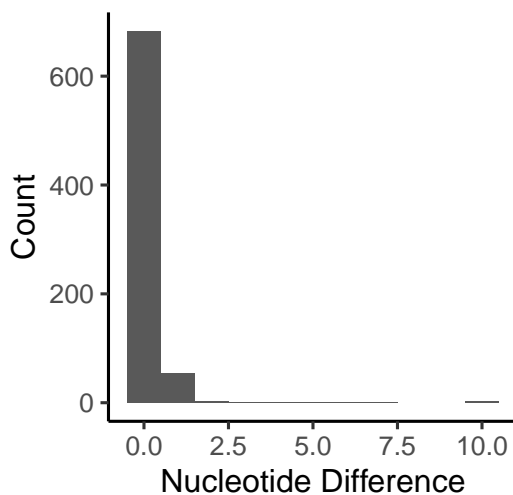
IGHV4-59*01

702 sequences assigned
631 (89.9%) exact matches, in which:
623 unique CDR3
6 unique J



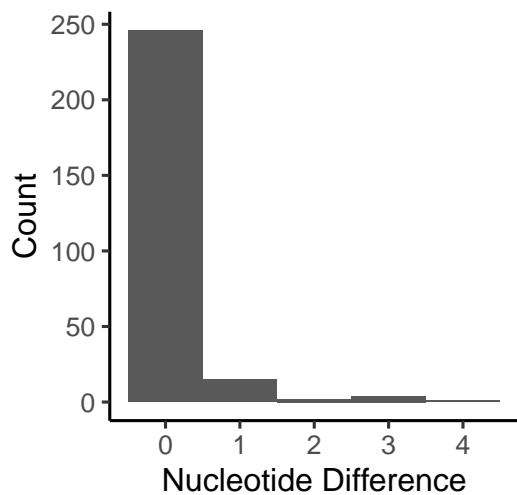
IGHV5-51*01

747 sequences assigned
683 (91.4%) exact matches, in which:
663 unique CDR3
6 unique J



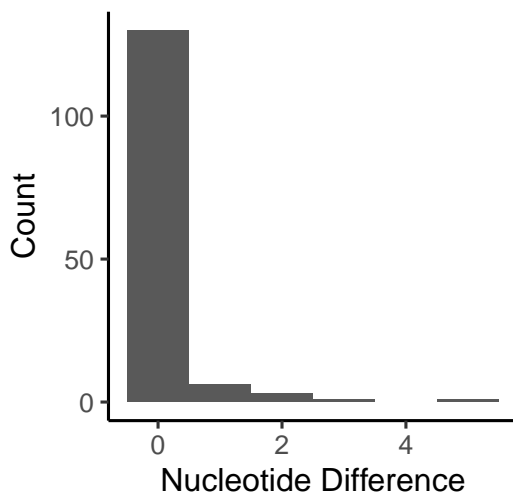
IGHV4-61*01

268 sequences assigned
246 (91.8%) exact matches, in which:
240 unique CDR3
6 unique J



IGHV6-1*01

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





Warning – no inferred sequences found.

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