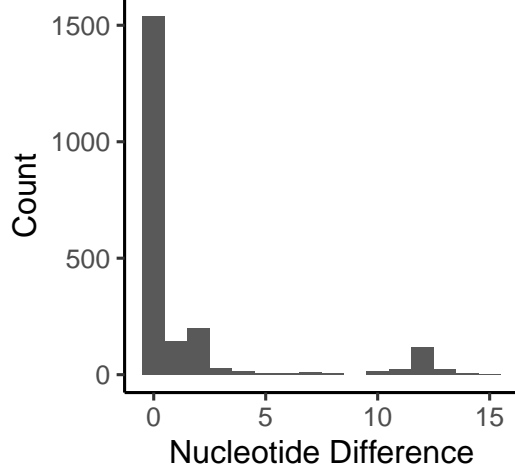


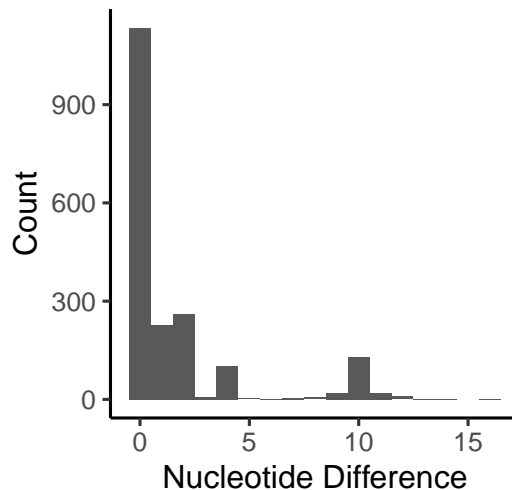
IGHV1-2*02

2136 sequences assigned
1538 (72%) exact matches, in which:
1470 unique CDR3
6 unique J



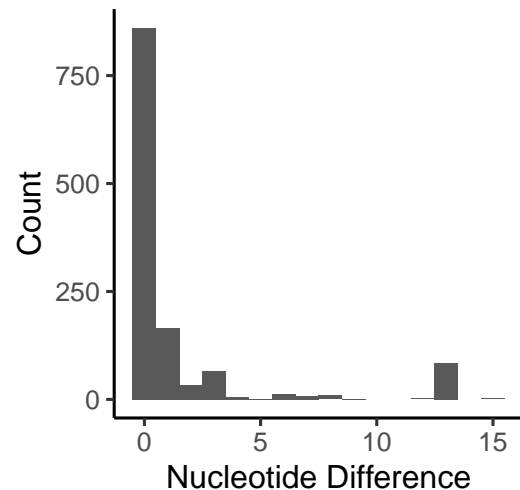
IGHV1-18*01

1932 sequences assigned
1135 (58.7%) exact matches, in which:
1077 unique CDR3
6 unique J



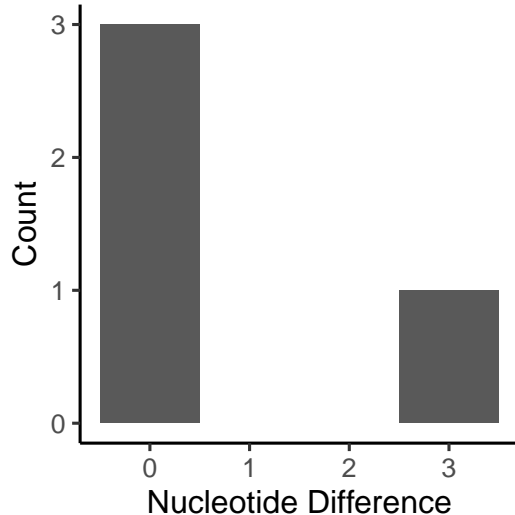
IGHV1-46*01

1252 sequences assigned
861 (68.8%) exact matches, in which:
824 unique CDR3
6 unique J



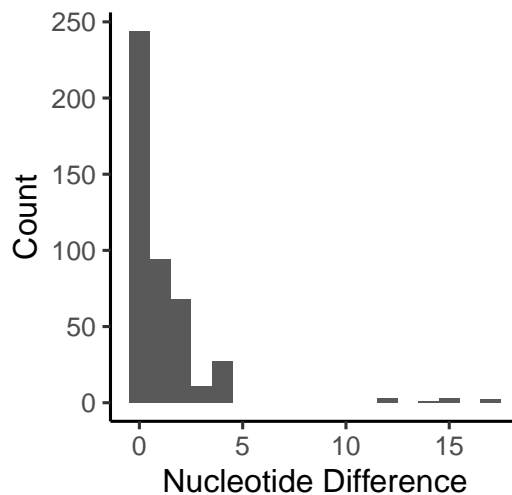
IGHV1-3*02

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
2 unique J



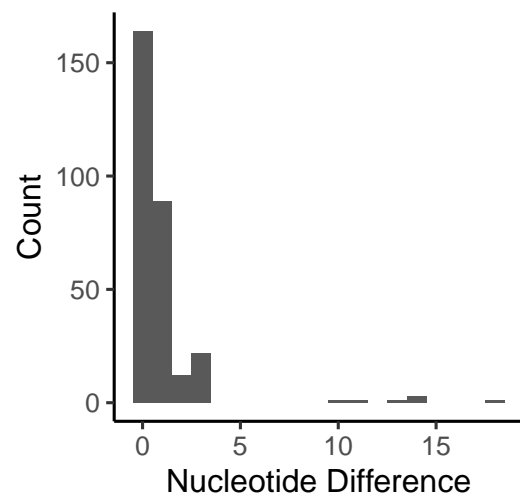
IGHV1-24*01

470 sequences assigned
244 (51.9%) exact matches, in which:
227 unique CDR3
6 unique J



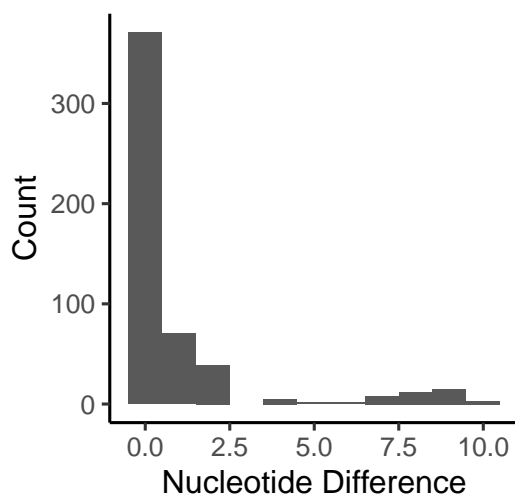
IGHV1-58*01

294 sequences assigned
164 (55.8%) exact matches, in which:
137 unique CDR3
5 unique J



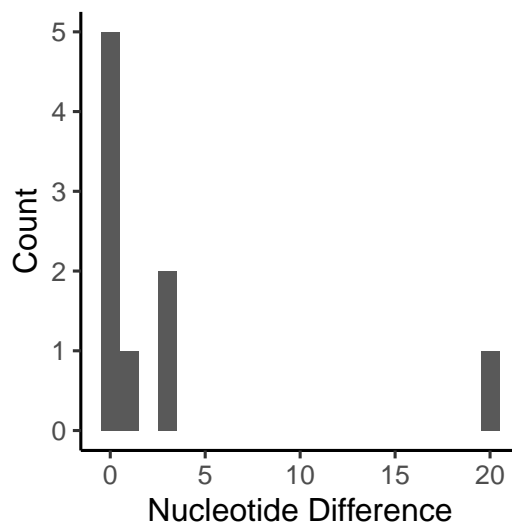
IGHV1-8*01

527 sequences assigned
371 (70.4%) exact matches, in which:
355 unique CDR3
6 unique J



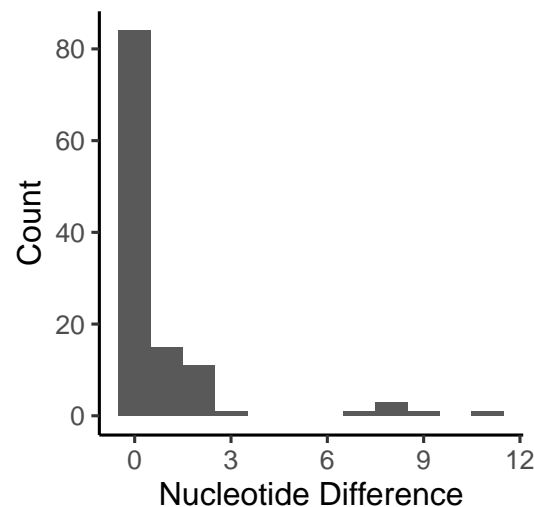
IGHV1-45*02

9 sequences assigned
5 (55.6%) exact matches, in which:
5 unique CDR3
3 unique J



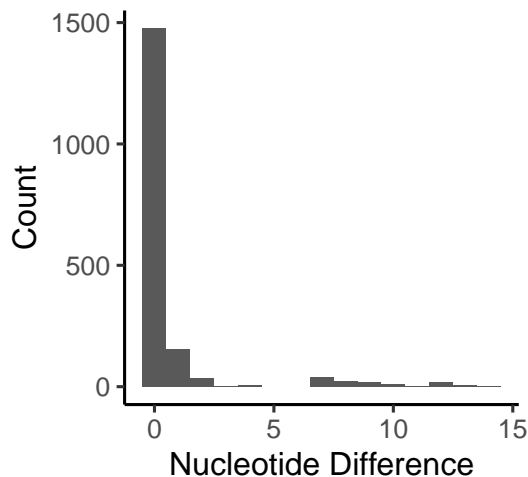
IGHV1-69-2*01

118 sequences assigned
84 (71.2%) exact matches, in which:
81 unique CDR3
6 unique J



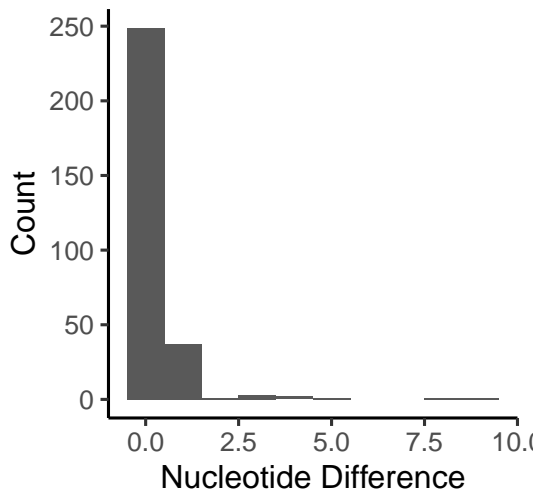
IGHV1-69*06

1797 sequences assigned
1476 (82.1%) exact matches, in which:
1396 unique CDR3
6 unique J



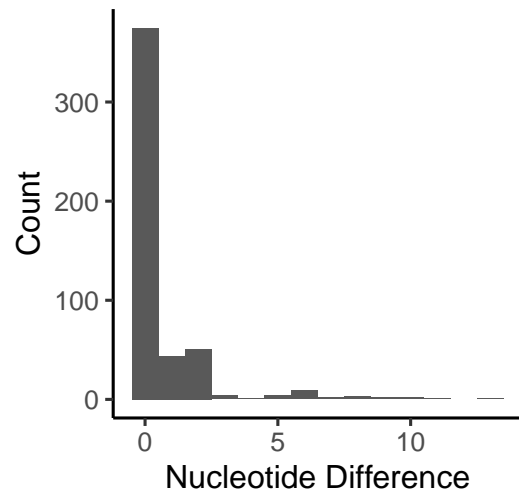
IGHV2-5*02

295 sequences assigned
249 (84.4%) exact matches, in which:
243 unique CDR3
6 unique J



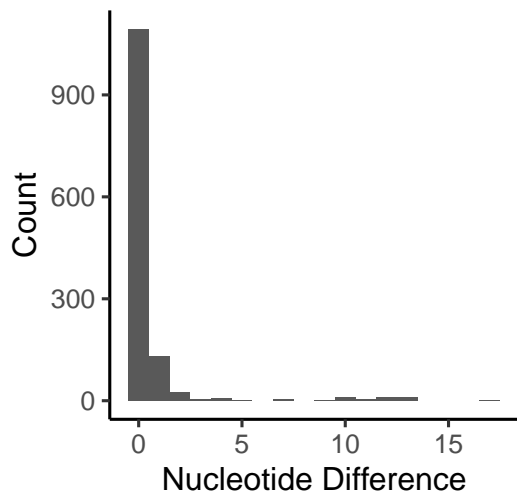
IGHV3-7*01

499 sequences assigned
375 (75.2%) exact matches, in which:
364 unique CDR3
6 unique J



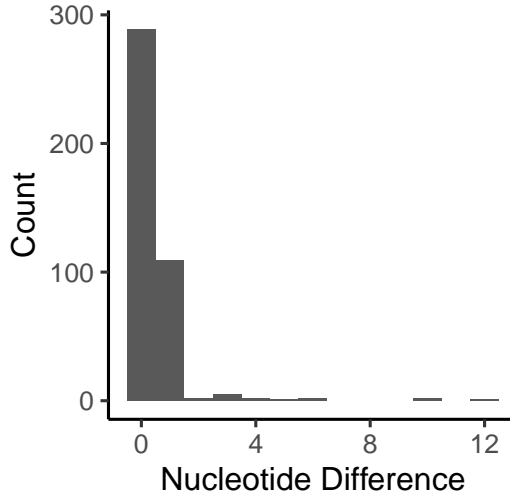
IGHV1-69*17

1301 sequences assigned
1094 (84.1%) exact matches, in which:
1009 unique CDR3
6 unique J



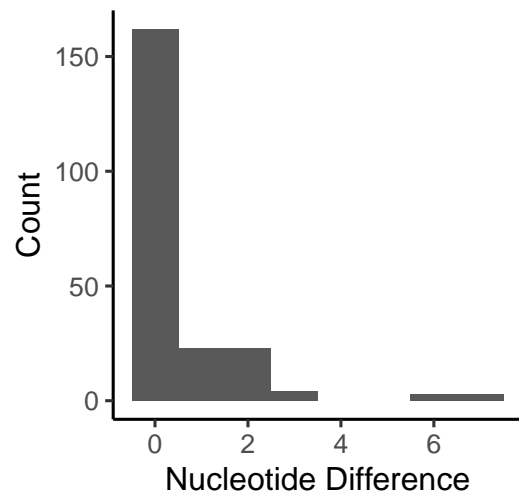
IGHV2-26*01

413 sequences assigned
289 (70%) exact matches, in which:
281 unique CDR3
5 unique J



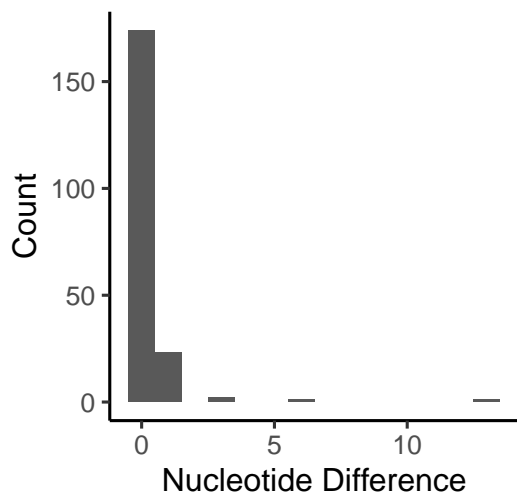
IGHV3-7*04

218 sequences assigned
162 (74.3%) exact matches, in which:
156 unique CDR3
6 unique J



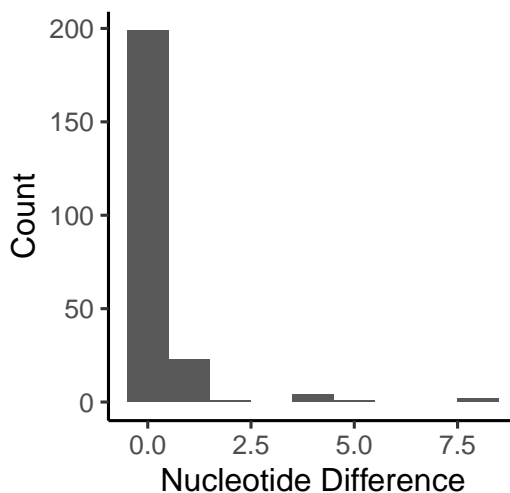
IGHV2-5*01

201 sequences assigned
174 (86.6%) exact matches, in which:
171 unique CDR3
6 unique J



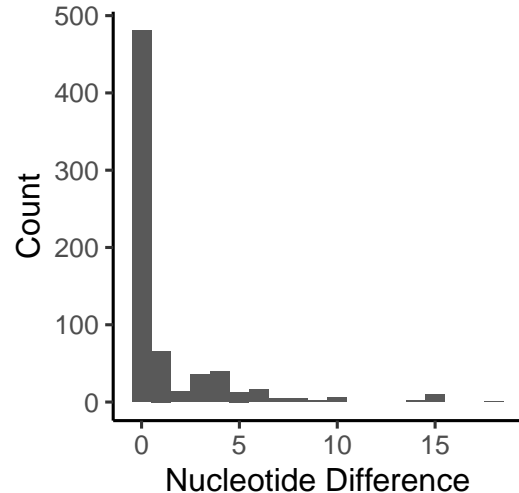
IGHV2-70*01

230 sequences assigned
199 (86.5%) exact matches, in which:
189 unique CDR3
5 unique J



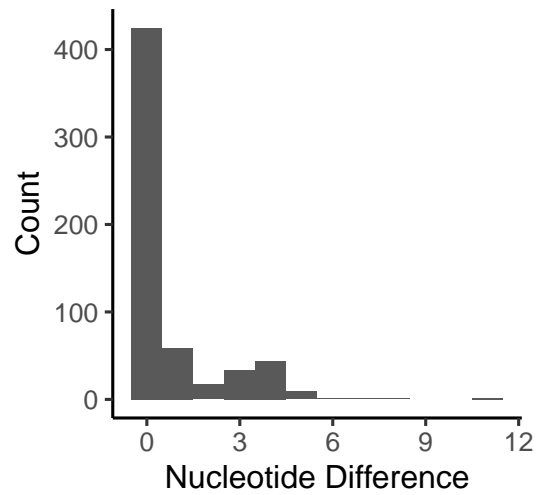
IGHV3-9*01

696 sequences assigned
481 (69.1%) exact matches, in which:
432 unique CDR3
6 unique J



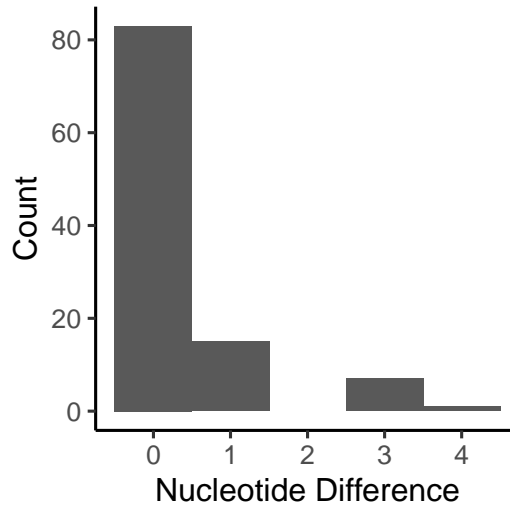
IGHV3-11*01

593 sequences assigned
425 (71.7%) exact matches, in which:
379 unique CDR3
6 unique J



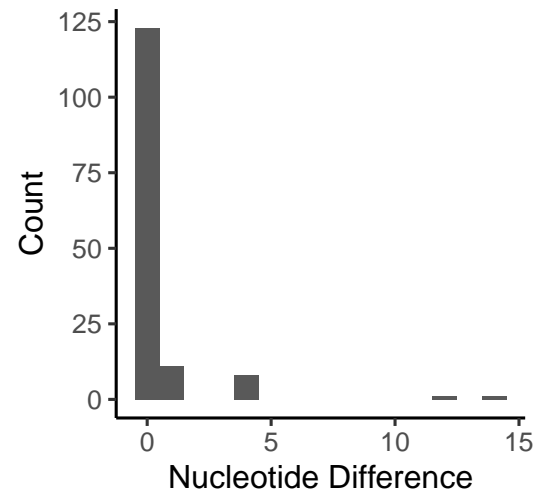
IGHV3-13*04

106 sequences assigned
83 (78.3%) exact matches, in which:
83 unique CDR3
6 unique J



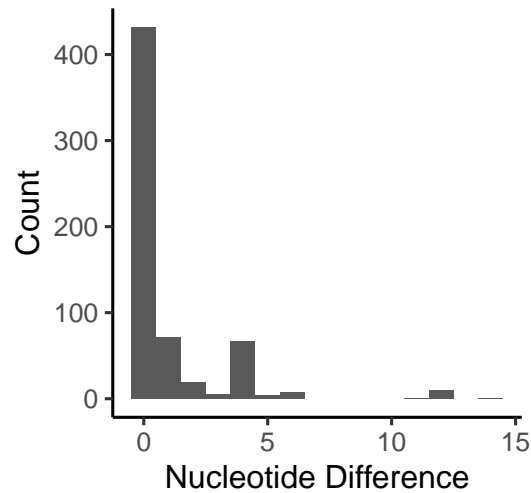
IGHV3-20*04

144 sequences assigned
123 (85.4%) exact matches, in which:
115 unique CDR3
6 unique J



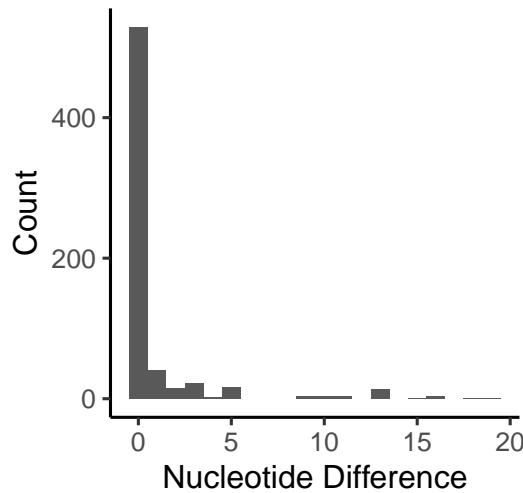
IGHV3-11*05

617 sequences assigned
432 (70%) exact matches, in which:
374 unique CDR3
6 unique J



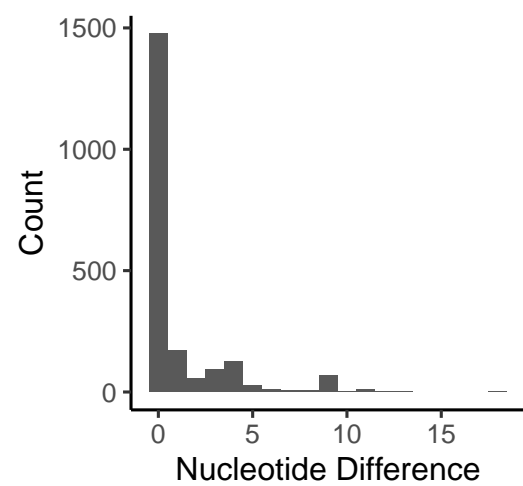
IGHV3-15*01

655 sequences assigned
529 (80.8%) exact matches, in which:
510 unique CDR3
6 unique J



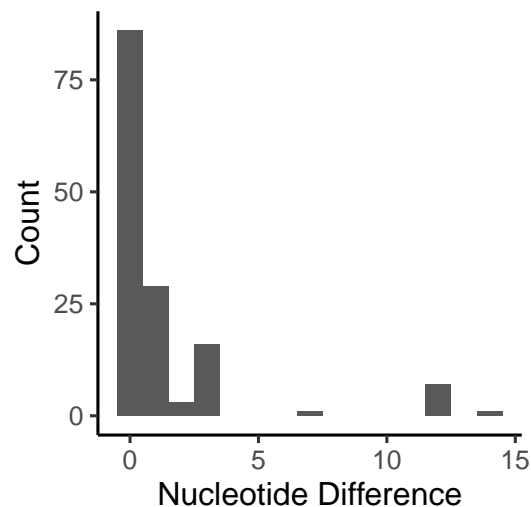
IGHV3-21*01

2051 sequences assigned
1476 (72%) exact matches, in which:
1381 unique CDR3
6 unique J



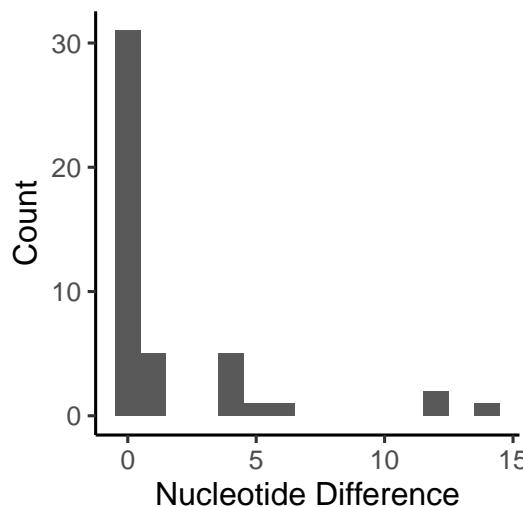
IGHV3-13*01

143 sequences assigned
86 (60.1%) exact matches, in which:
77 unique CDR3
5 unique J



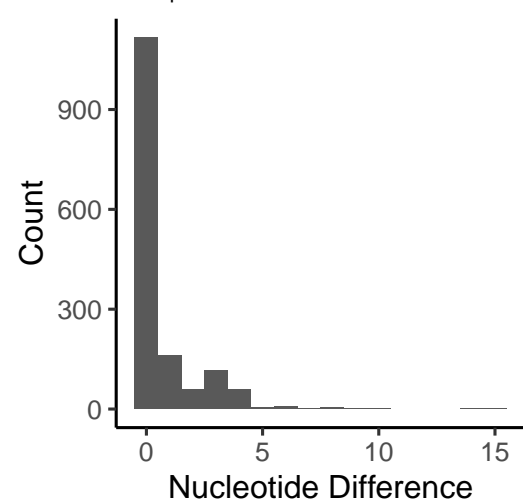
IGHV3-20*01

46 sequences assigned
31 (67.4%) exact matches, in which:
29 unique CDR3
5 unique J



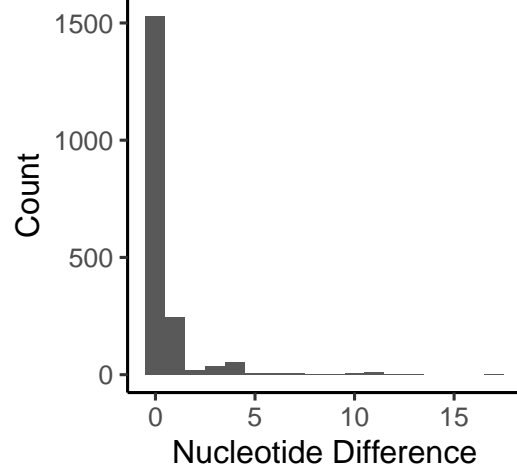
IGHV3-30-3*01

1542 sequences assigned
1117 (72.4%) exact matches, in which:
1039 unique CDR3
6 unique J



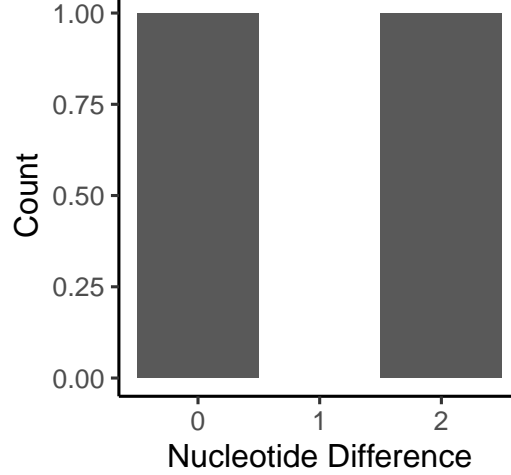
IGHV3–33*01

1920 sequences assigned
1528 (79.6%) exact matches, in which:
1418 unique CDR3
6 unique J



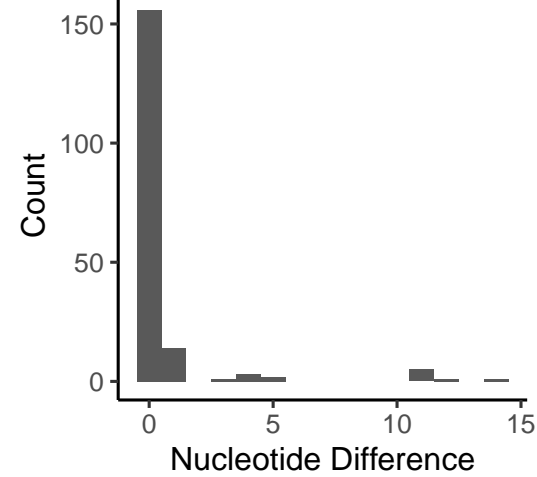
IGHV3–47*02

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



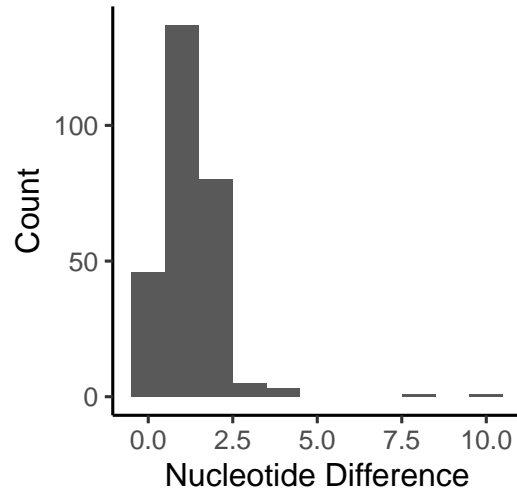
IGHV3–49*04

183 sequences assigned
156 (85.2%) exact matches, in which:
151 unique CDR3
5 unique J



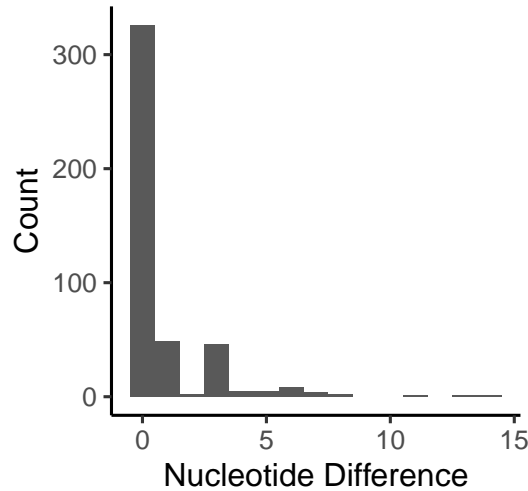
IGHV3–33*06

273 sequences assigned
46 (16.8%) exact matches, in which:
46 unique CDR3
5 unique J



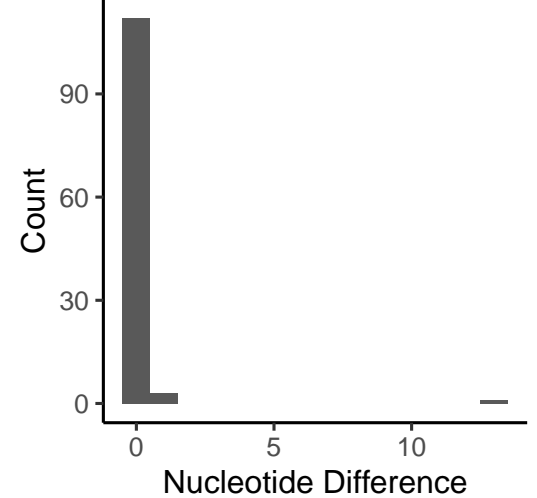
IGHV3–48*02

450 sequences assigned
326 (72.4%) exact matches, in which:
312 unique CDR3
6 unique J



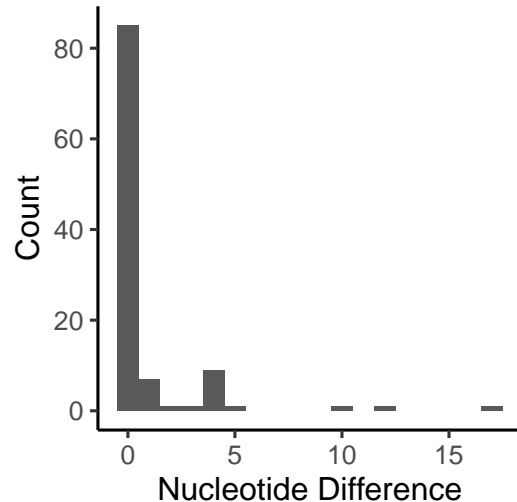
IGHV3–49*05

116 sequences assigned
112 (96.6%) exact matches, in which:
102 unique CDR3
5 unique J



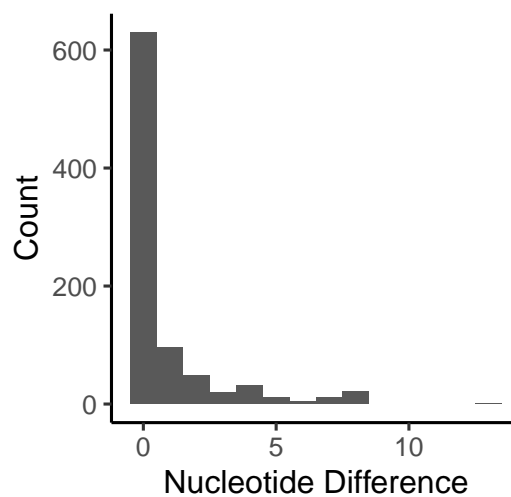
IGHV3–43*01

108 sequences assigned
85 (78.7%) exact matches, in which:
84 unique CDR3
6 unique J



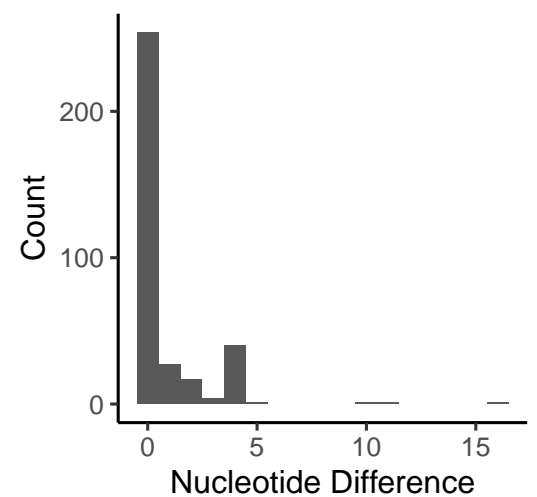
IGHV3–48*03

873 sequences assigned
630 (72.2%) exact matches, in which:
599 unique CDR3
6 unique J



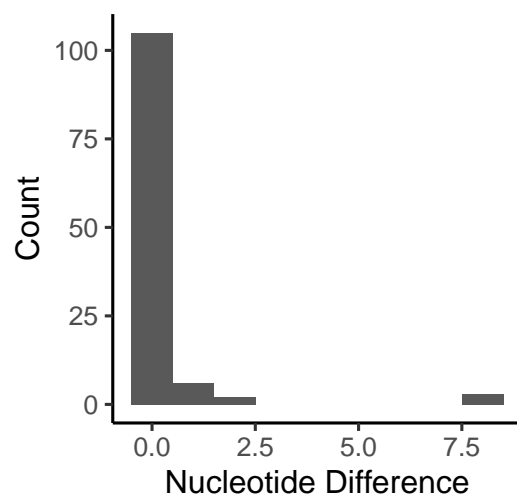
IGHV3–53*01

346 sequences assigned
254 (73.4%) exact matches, in which:
241 unique CDR3
6 unique J



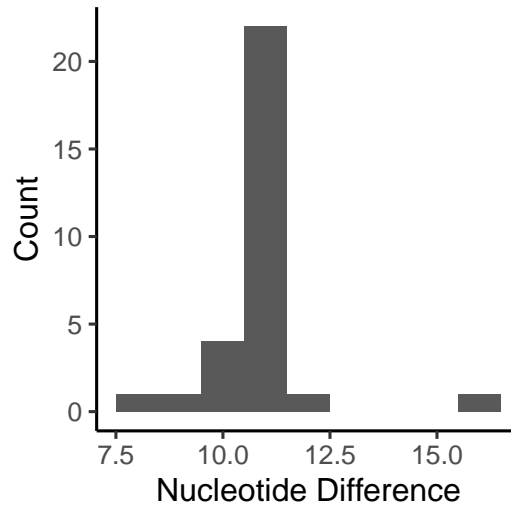
IGHV3–53*02

116 sequences assigned
105 (90.5%) exact matches, in which:
100 unique CDR3
5 unique J



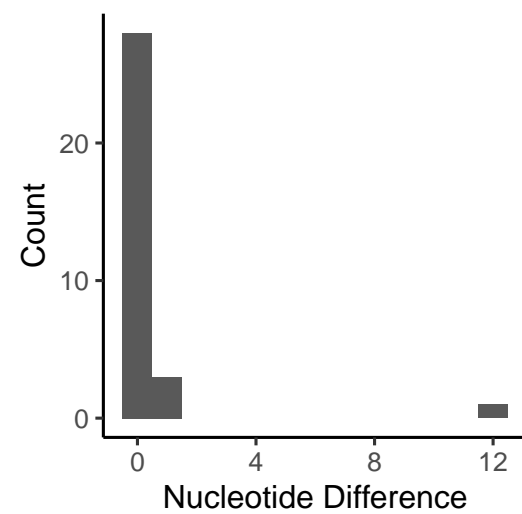
IGHV3–66*01

31 sequences assigned
No exact matches.



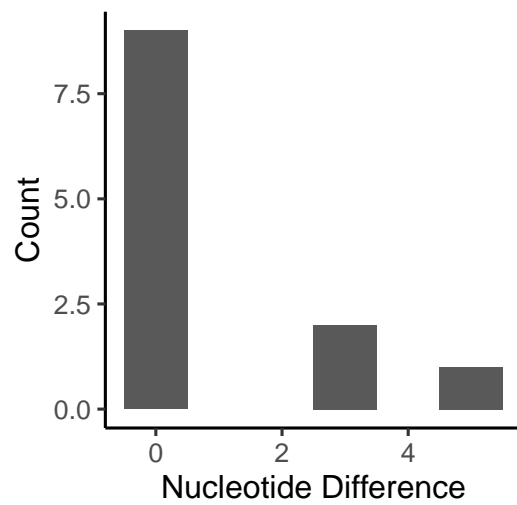
IGHV3–72*01

32 sequences assigned
28 (87.5%) exact matches, in which:
26 unique CDR3
5 unique J



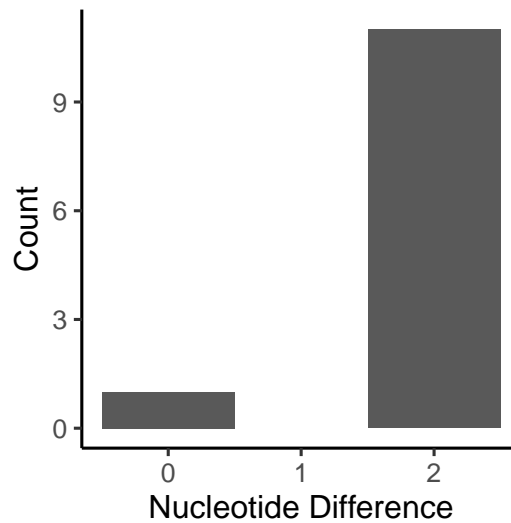
IGHV3–64*02

12 sequences assigned
9 (75%) exact matches, in which:
7 unique CDR3
3 unique J



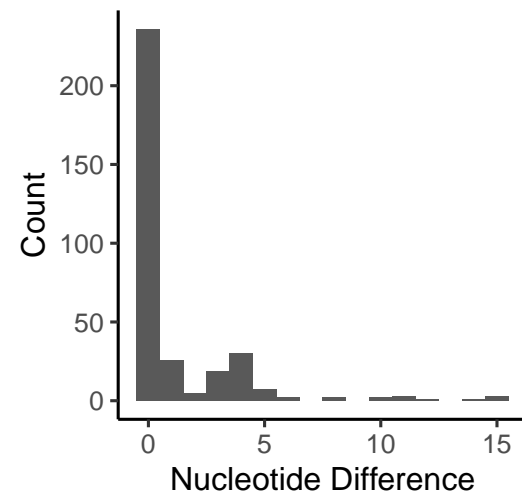
IGHV3–66*03

12 sequences assigned
1 (8.3%) exact matches, in which:
1 unique CDR3
1 unique J



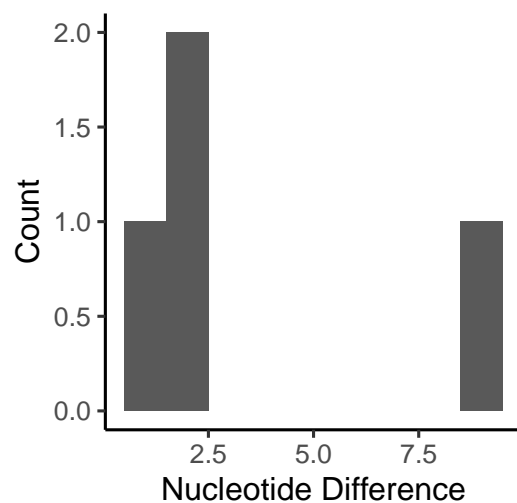
IGHV3–73*02

337 sequences assigned
236 (70%) exact matches, in which:
217 unique CDR3
6 unique J



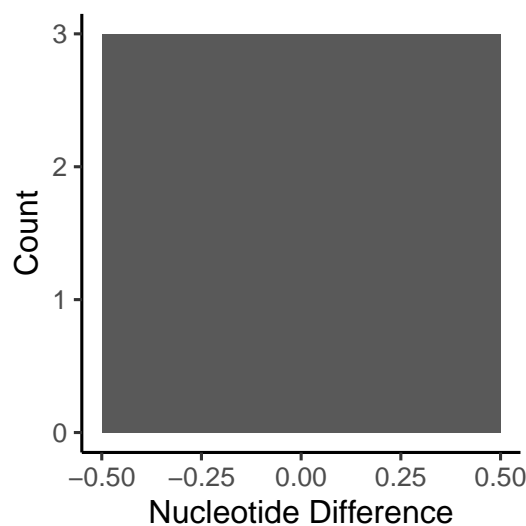
IGHV3–64*04

4 sequences assigned
No exact matches.



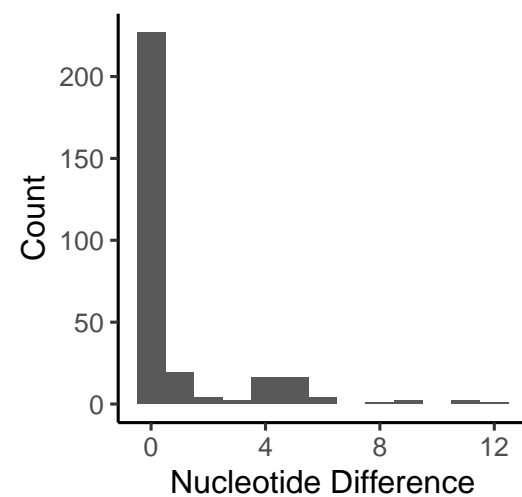
IGHV3–69–1*01

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



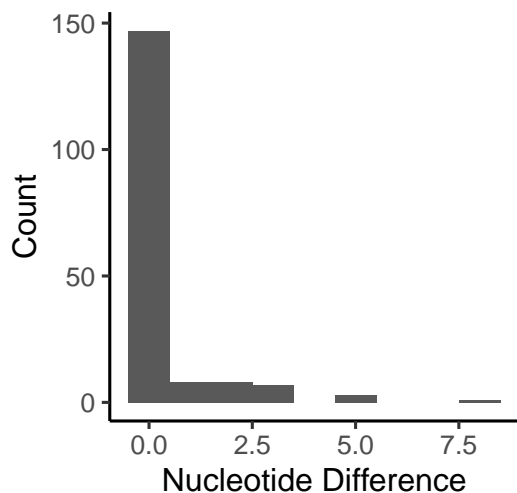
IGHV3–74*01

294 sequences assigned
227 (77.2%) exact matches, in which:
219 unique CDR3
6 unique J



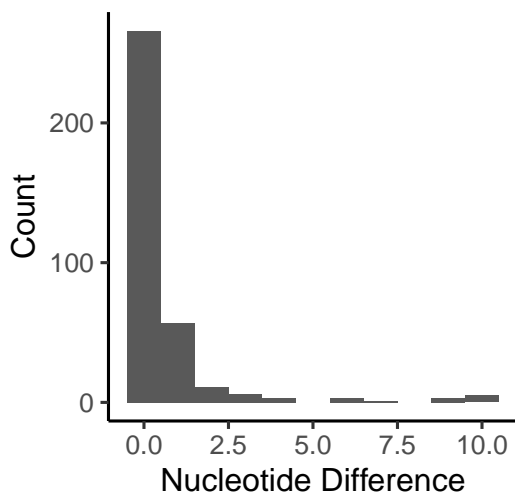
IGHV3-64D*06

174 sequences assigned
147 (84.5%) exact matches, in which:
143 unique CDR3
6 unique J



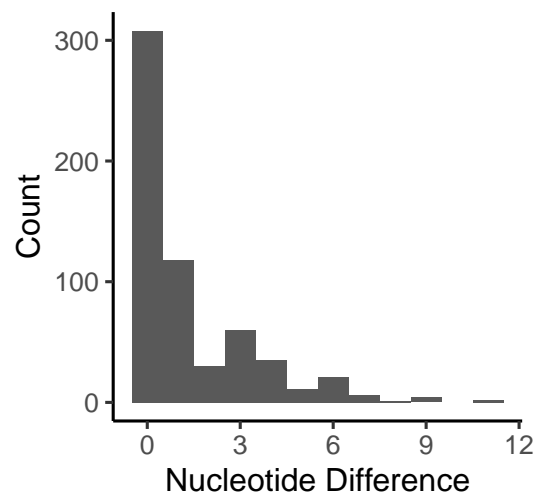
IGHV4-4*07

355 sequences assigned
266 (74.9%) exact matches, in which:
253 unique CDR3
6 unique J



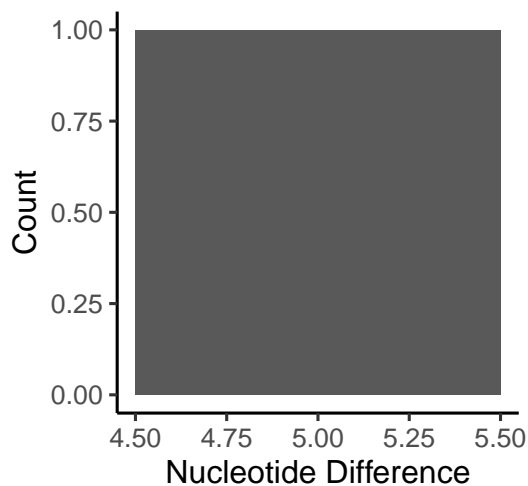
IGHV4-30-2*01

597 sequences assigned
308 (51.6%) exact matches, in which:
287 unique CDR3
6 unique J



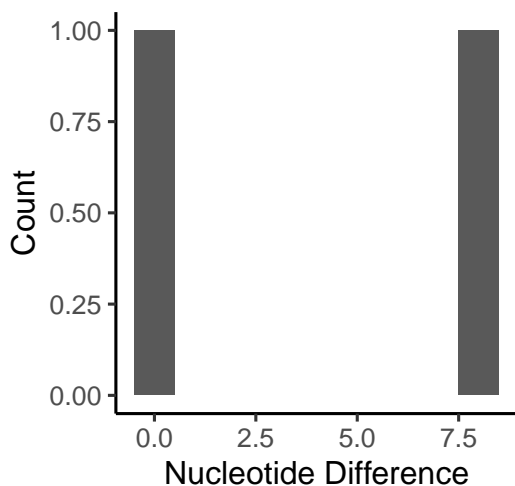
IGHV3-NL1*01

1 sequences assigned
No exact matches.



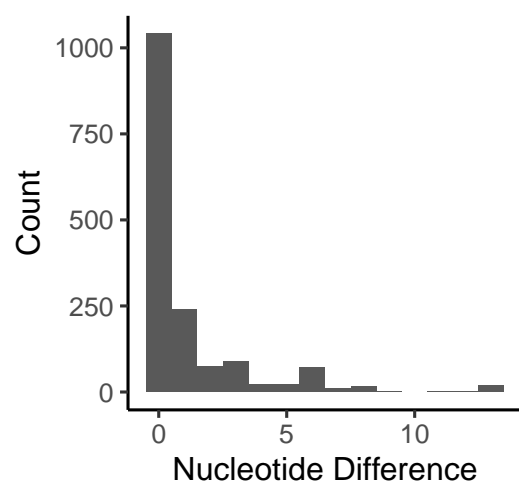
IGHV4-28*03

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



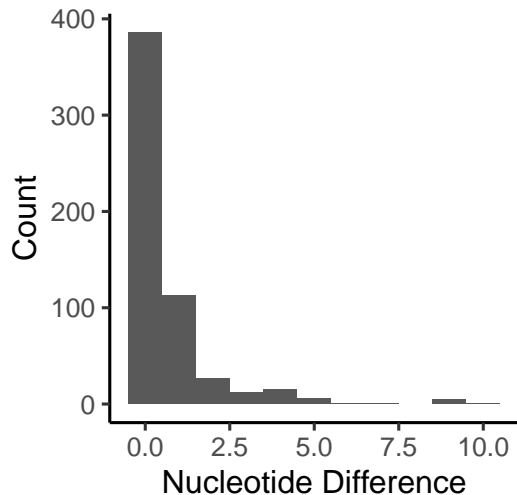
IGHV4-31*03

1603 sequences assigned
1041 (64.9%) exact matches, in which:
979 unique CDR3
6 unique J



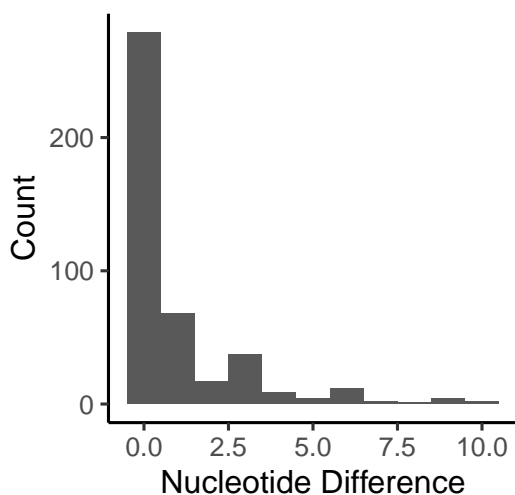
IGHV4-4*02

567 sequences assigned
386 (68.1%) exact matches, in which:
375 unique CDR3
6 unique J



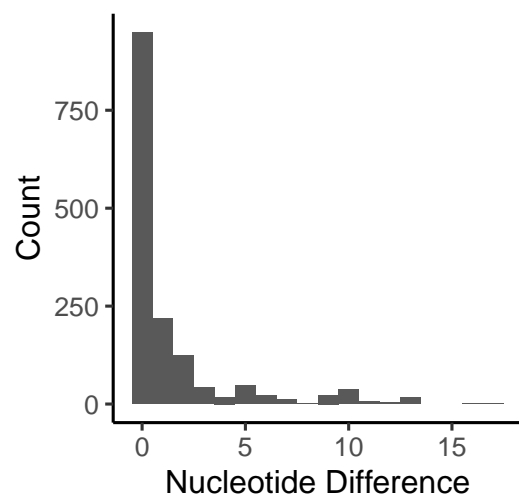
IGHV4-30-4*01

436 sequences assigned
279 (64%) exact matches, in which:
265 unique CDR3
6 unique J



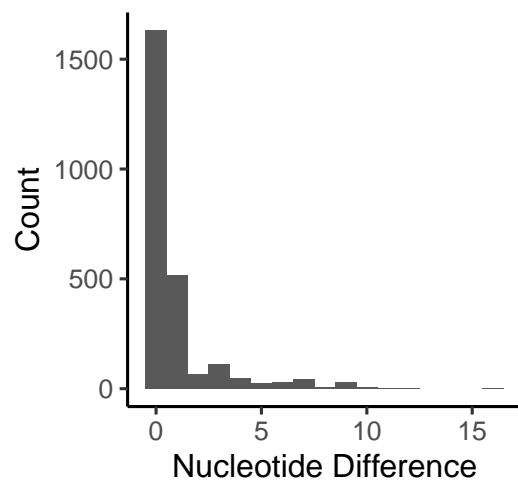
IGHV4-34*01

1521 sequences assigned
949 (62.4%) exact matches, in which:
901 unique CDR3
6 unique J



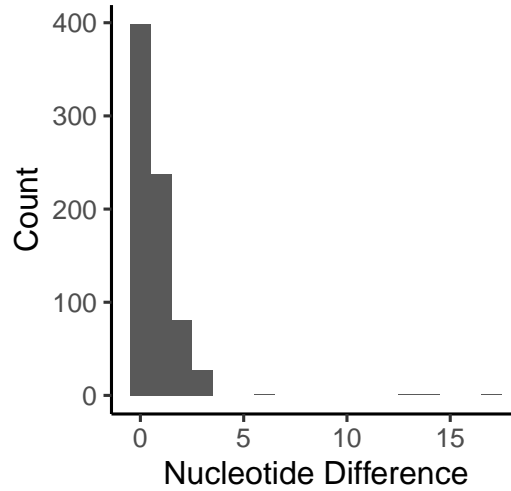
IGHV4-39*01

2520 sequences assigned
1631 (64.7%) exact matches, in which:
1568 unique CDR3
6 unique J



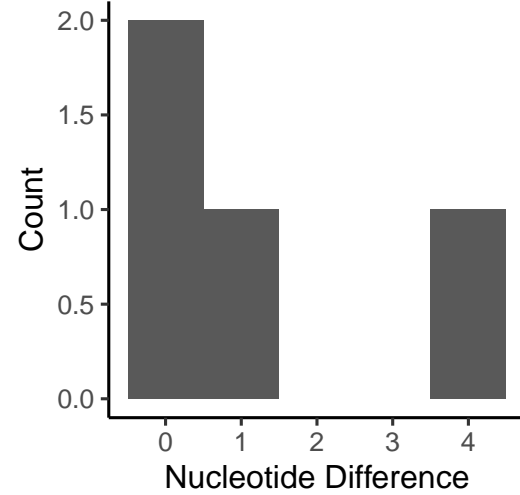
IGHV5-10-1*01

749 sequences assigned
399 (53.3%) exact matches, in which:
380 unique CDR3
6 unique J



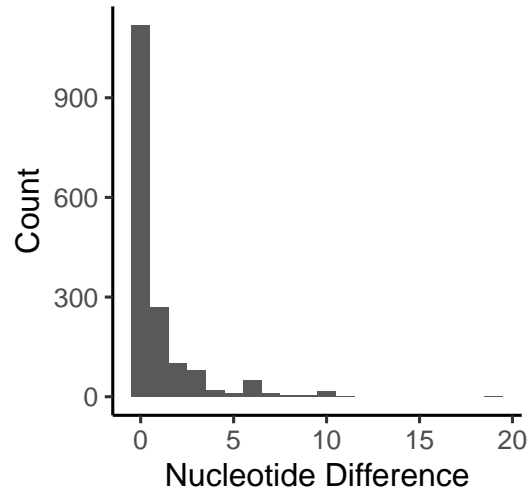
IGHV7-4-1*01

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



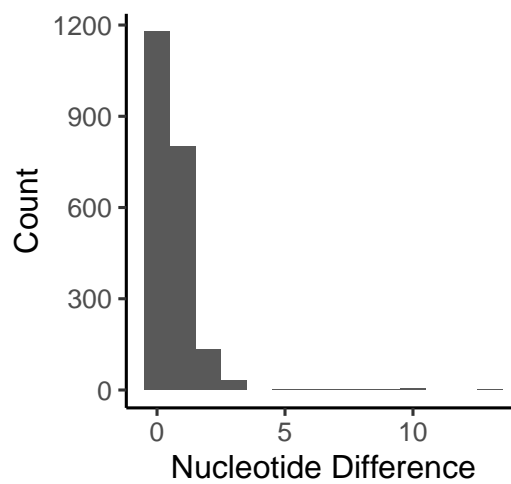
IGHV4-59*01

1685 sequences assigned
1119 (66.4%) exact matches, in which:
1069 unique CDR3
6 unique J



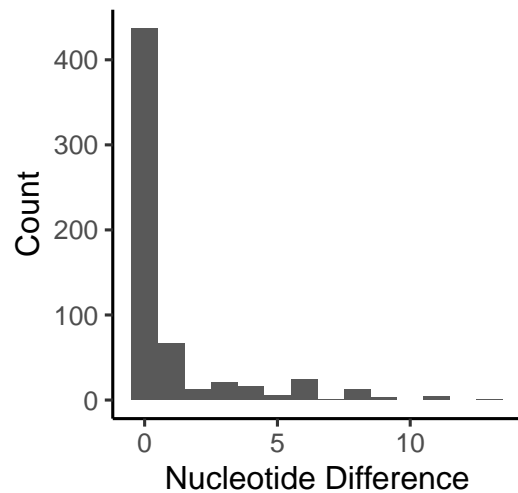
IGHV5-51*01

2160 sequences assigned
1178 (54.5%) exact matches, in which:
1041 unique CDR3
6 unique J



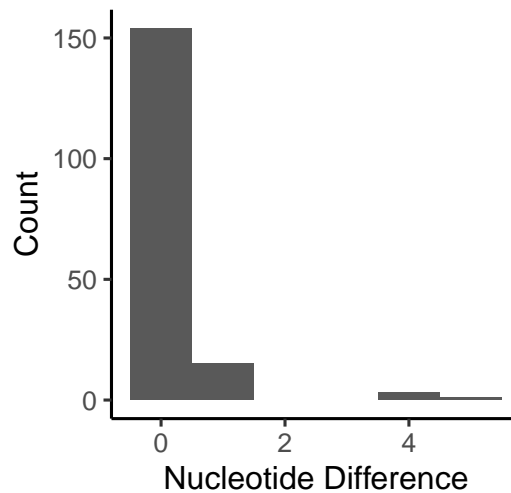
IGHV4-61*01

602 sequences assigned
437 (72.6%) exact matches, in which:
422 unique CDR3
6 unique J



IGHV6-1*01

173 sequences assigned
154 (89%) exact matches, in which:
141 unique CDR3
6 unique J





Warning – no inferred sequences found.