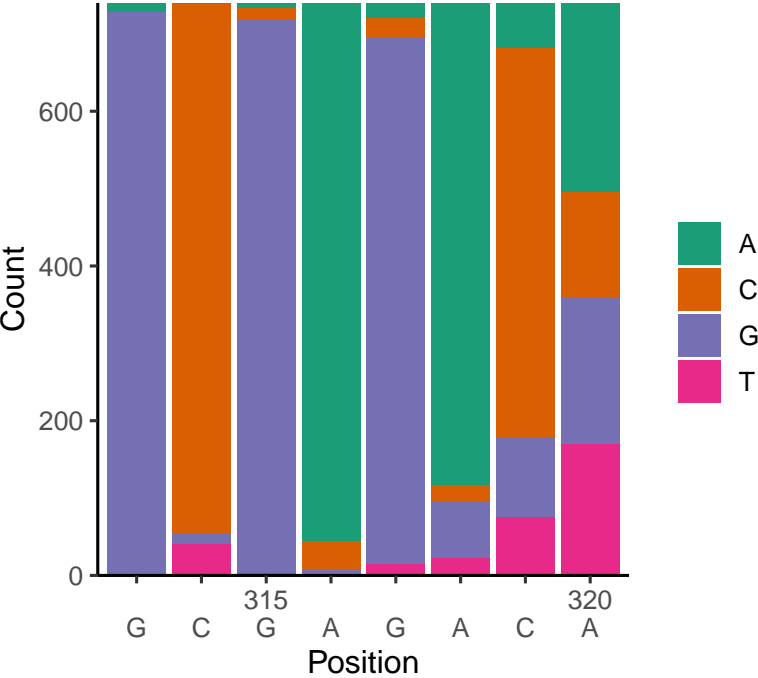
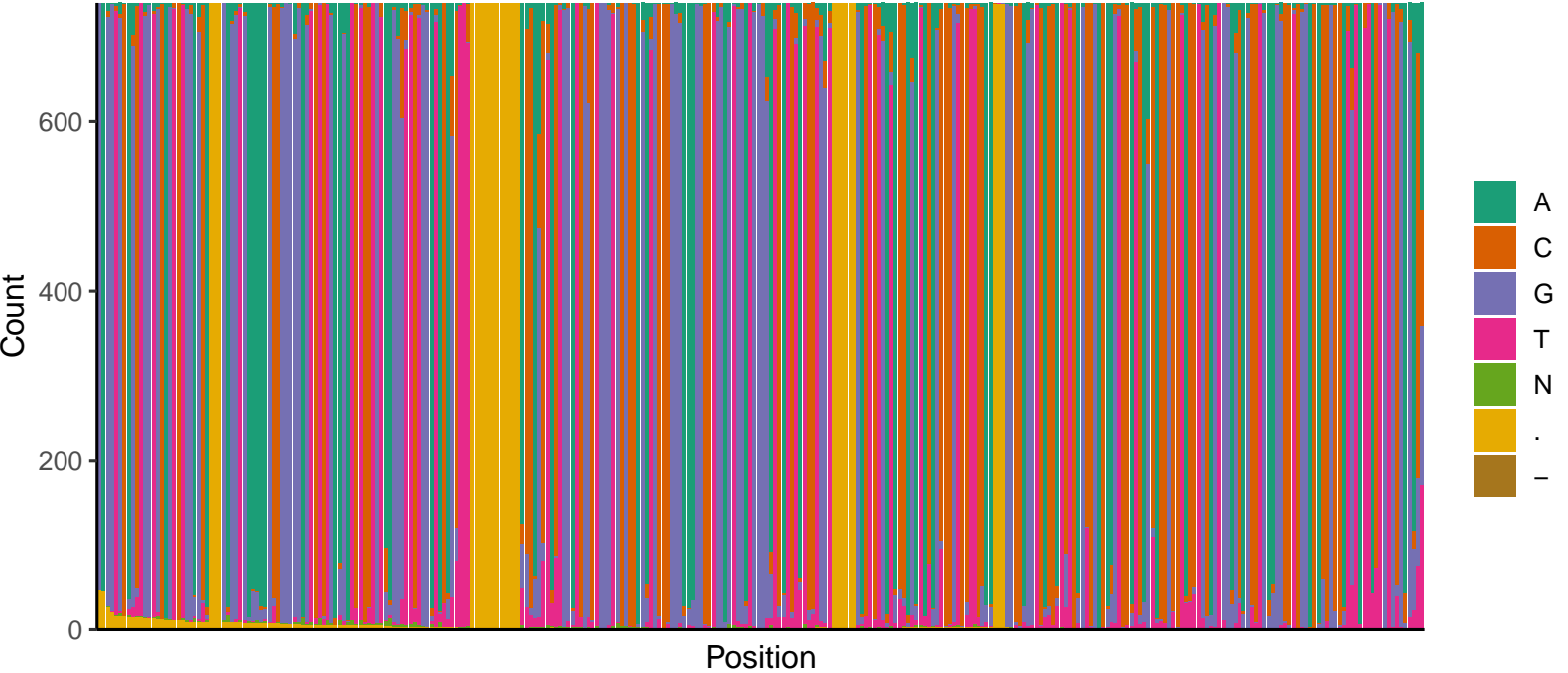


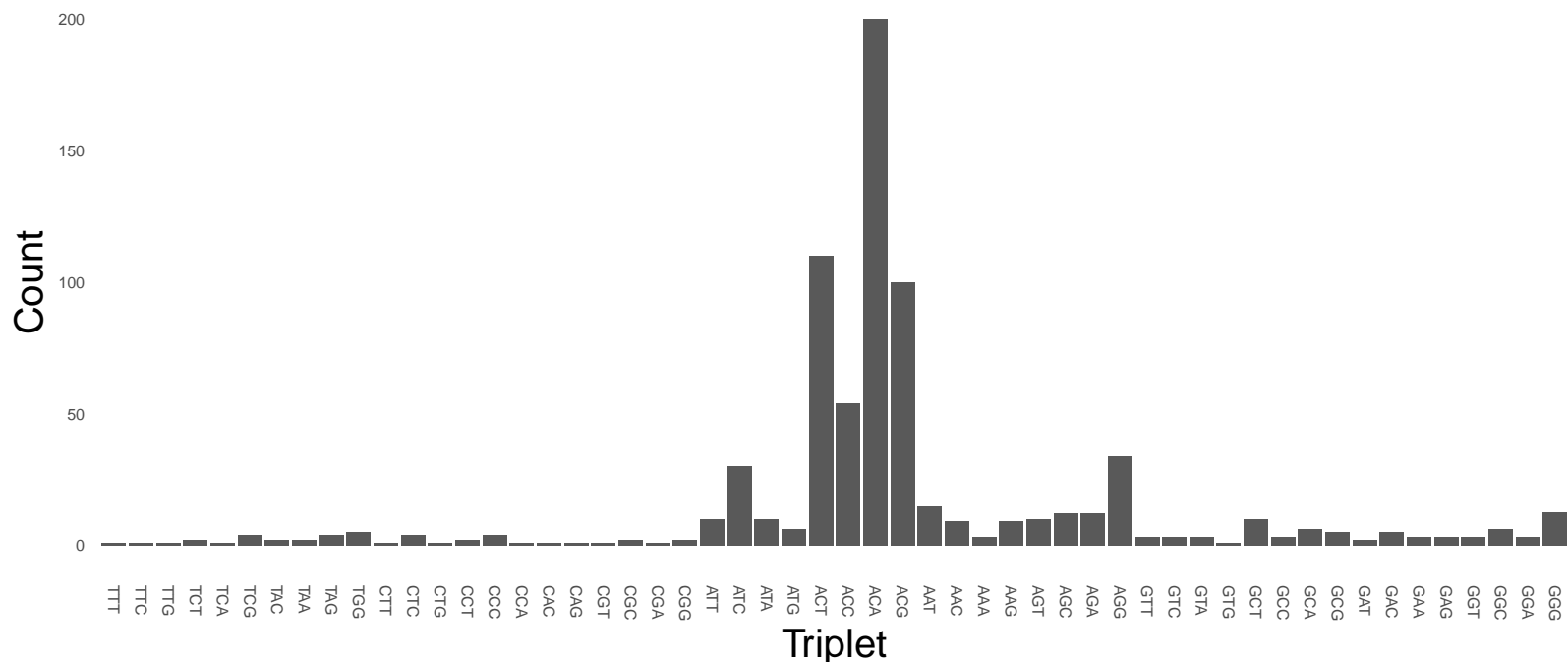
Gene IGHV5-51*01_C45G



Gene IGHV5-51*01_C45G

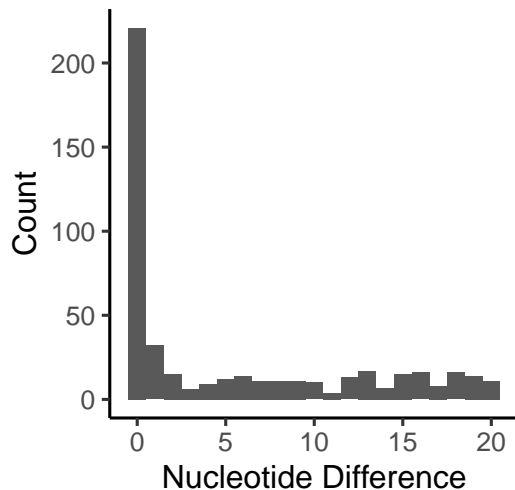


IGHV5-51*01_C45G- Final 3 nucleotides as a triplet



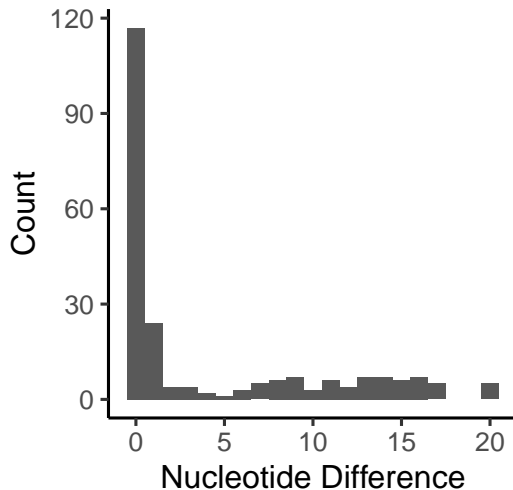
IGHV1-2*02

587 sequences assigned
221 (37.6%) exact matches, in which:
221 unique CDR3
6 unique J



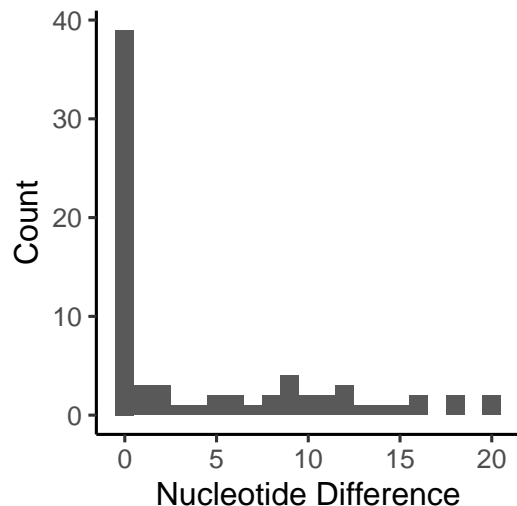
IGHV1-24*01

254 sequences assigned
117 (46.1%) exact matches, in which:
117 unique CDR3
6 unique J



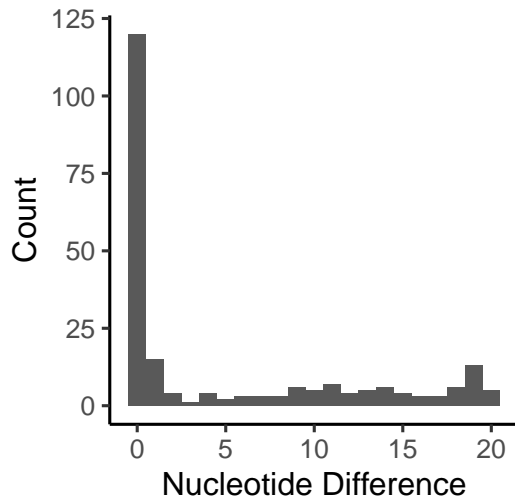
IGHV1-46*03

100 sequences assigned
39 (39%) exact matches, in which:
39 unique CDR3
4 unique J



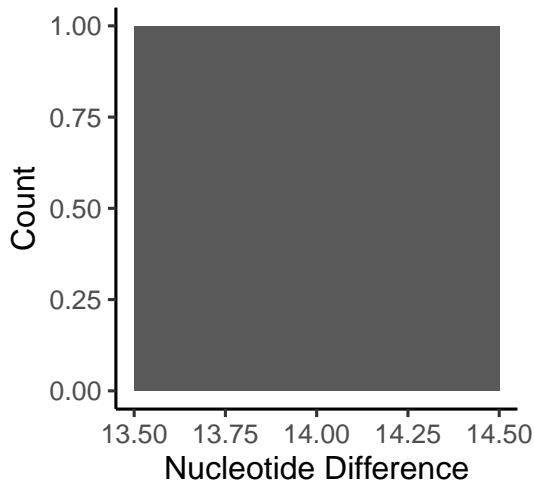
IGHV1-3*01

274 sequences assigned
120 (43.8%) exact matches, in which:
120 unique CDR3
6 unique J



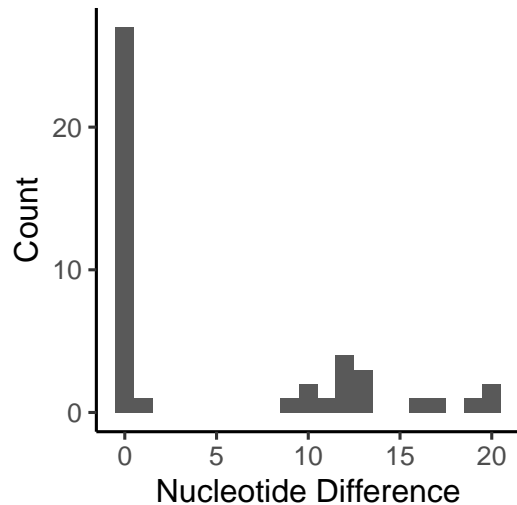
IGHV1-45*02

1 sequences assigned
No exact matches.



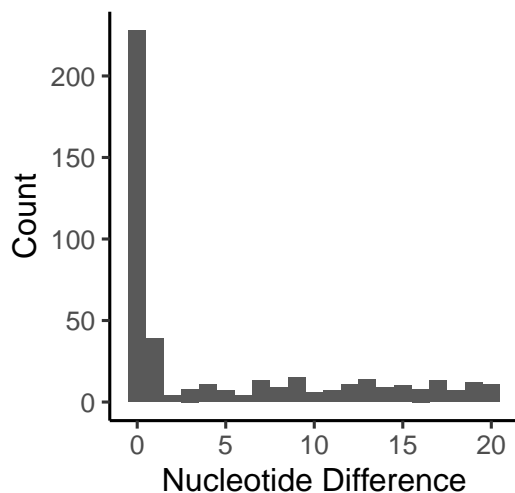
IGHV1-58*02

58 sequences assigned
27 (46.6%) exact matches, in which:
27 unique CDR3
5 unique J



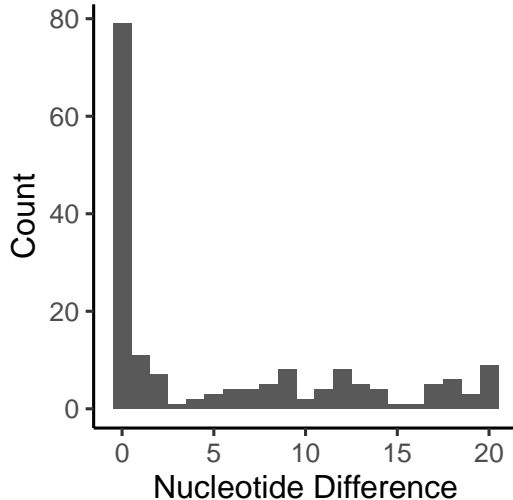
IGHV1-18*01

573 sequences assigned
228 (39.8%) exact matches, in which:
228 unique CDR3
6 unique J



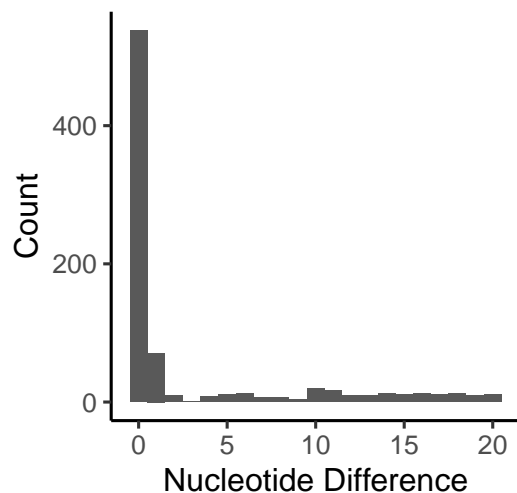
IGHV1-46*01

239 sequences assigned
79 (33.1%) exact matches, in which:
79 unique CDR3
6 unique J



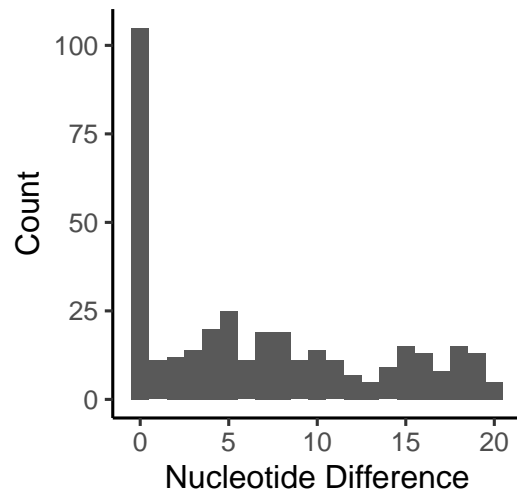
IGHV1-69*04

986 sequences assigned
538 (54.6%) exact matches, in which:
537 unique CDR3
6 unique J



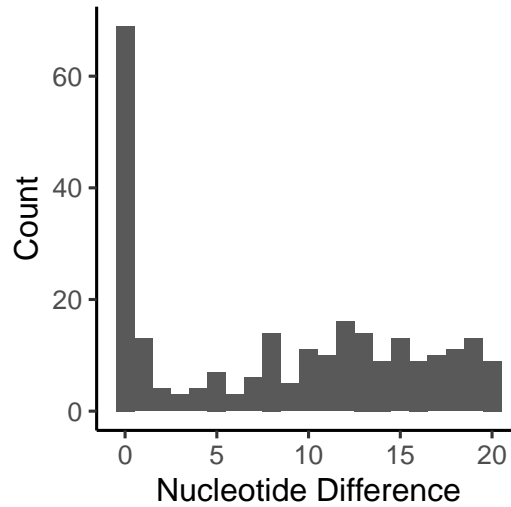
IGHV2-5*02

425 sequences assigned
105 (24.7%) exact matches, in which:
105 unique CDR3
5 unique J



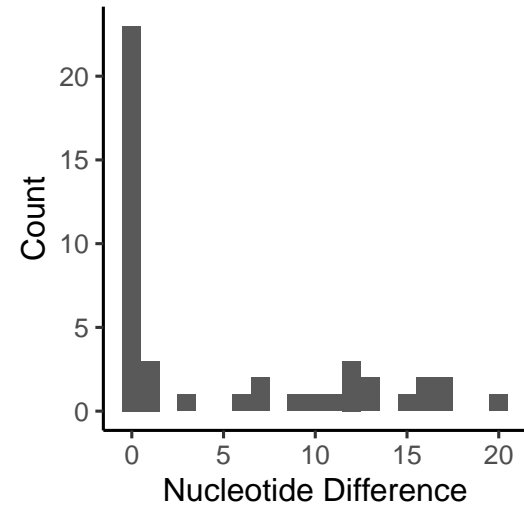
IGHV3-7*01

316 sequences assigned
69 (21.8%) exact matches, in which:
69 unique CDR3
6 unique J



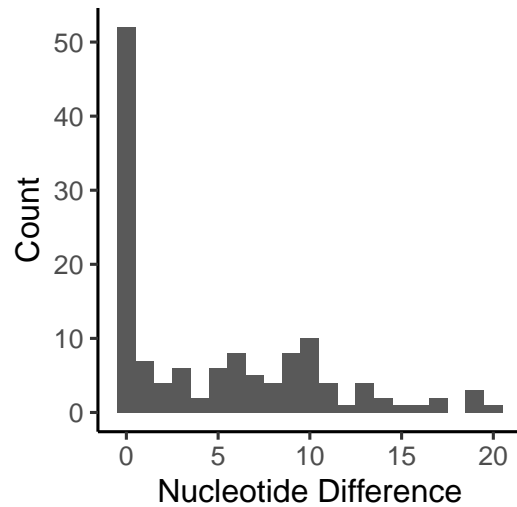
IGHV3-13*05

51 sequences assigned
23 (45.1%) exact matches, in which:
23 unique CDR3
4 unique J



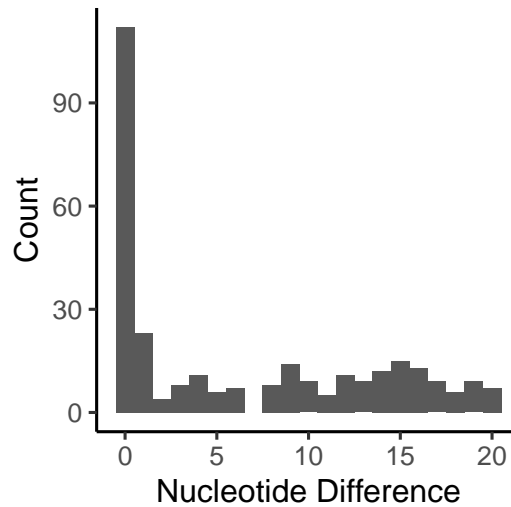
IGHV2-26*01

141 sequences assigned
52 (36.9%) exact matches, in which:
52 unique CDR3
5 unique J



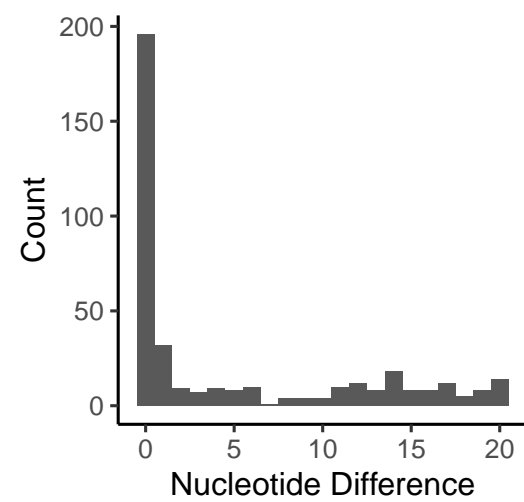
IGHV3-7*03

376 sequences assigned
112 (29.8%) exact matches, in which:
112 unique CDR3
6 unique J



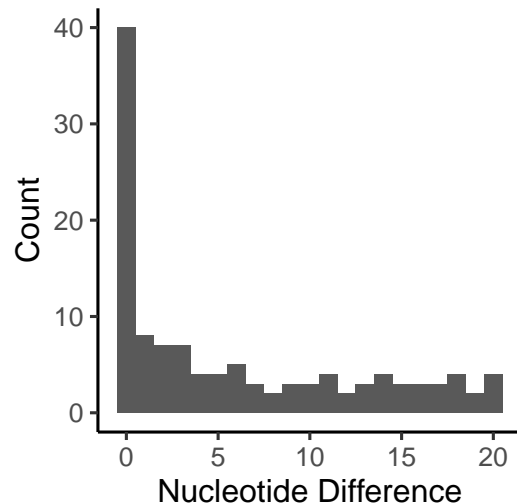
IGHV3-15*01

485 sequences assigned
196 (40.4%) exact matches, in which:
196 unique CDR3
6 unique J



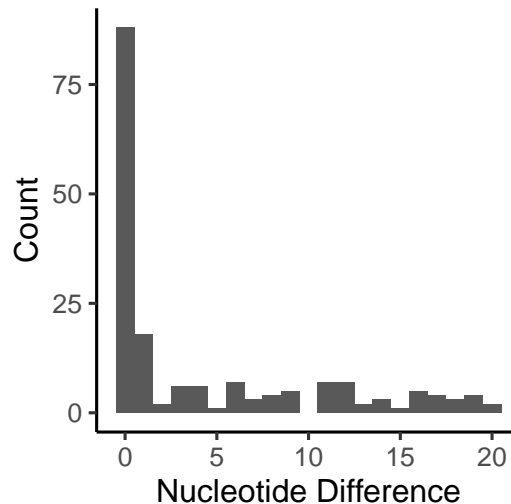
IGHV2-70*15

135 sequences assigned
40 (29.6%) exact matches, in which:
40 unique CDR3
4 unique J



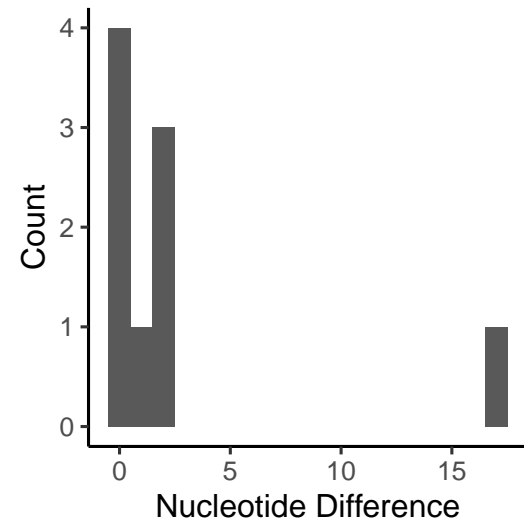
IGHV3-11*06

230 sequences assigned
88 (38.3%) exact matches, in which:
88 unique CDR3
6 unique J



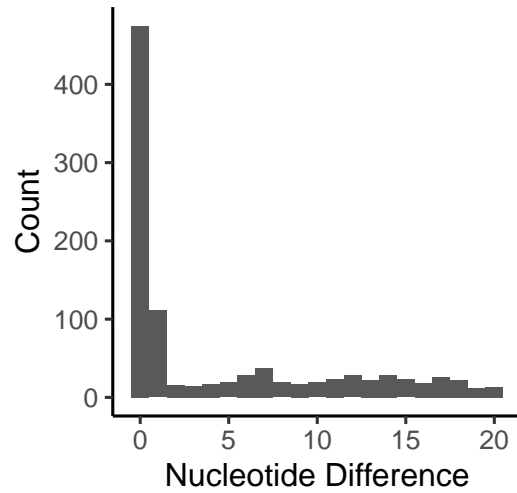
IGHV3-20*01

13 sequences assigned
4 (30.8%) exact matches, in which:
4 unique CDR3
2 unique J



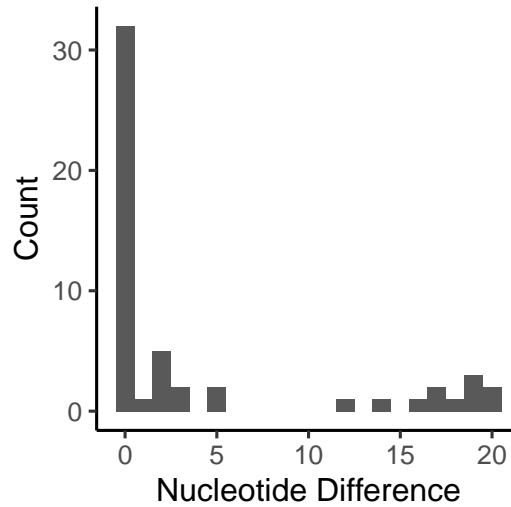
IGHV3-21*01

1112 sequences assigned
475 (42.7%) exact matches, in which:
473 unique CDR3
6 unique J



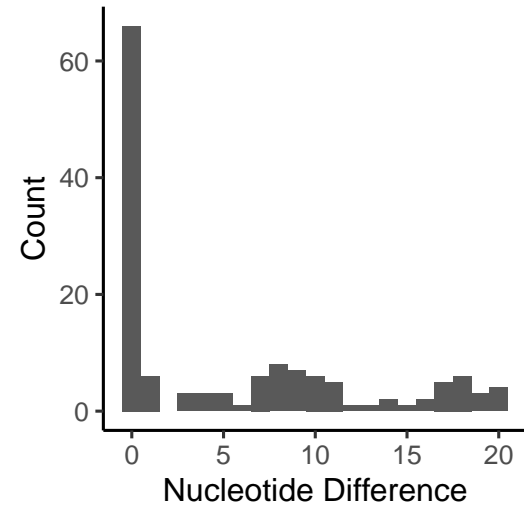
IGHV3-43*01

78 sequences assigned
32 (41%) exact matches, in which:
32 unique CDR3
3 unique J



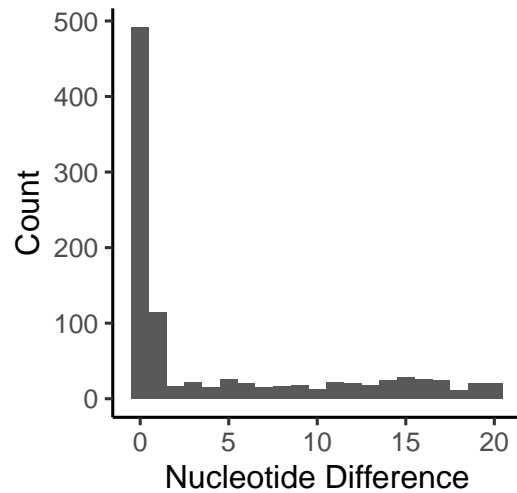
IGHV3-53*02

163 sequences assigned
66 (40.5%) exact matches, in which:
66 unique CDR3
5 unique J



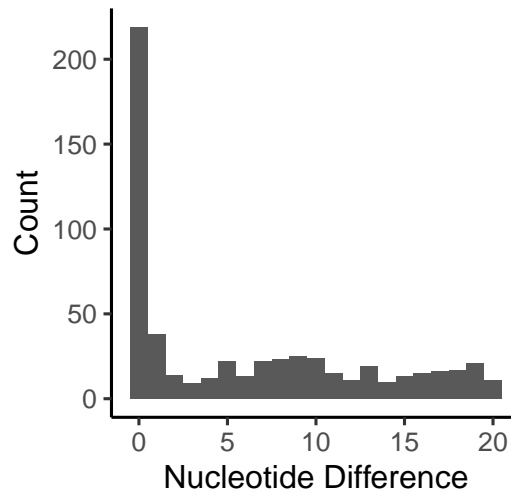
IGHV3-30-3*01

1236 sequences assigned
492 (39.8%) exact matches, in which:
491 unique CDR3
6 unique J



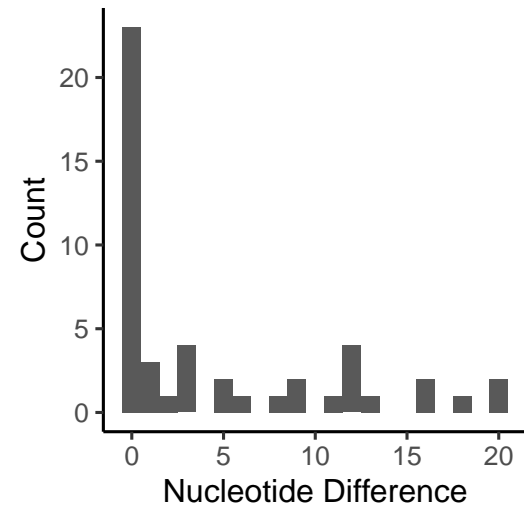
IGHV3-48*01

689 sequences assigned
219 (31.8%) exact matches, in which:
219 unique CDR3
6 unique J



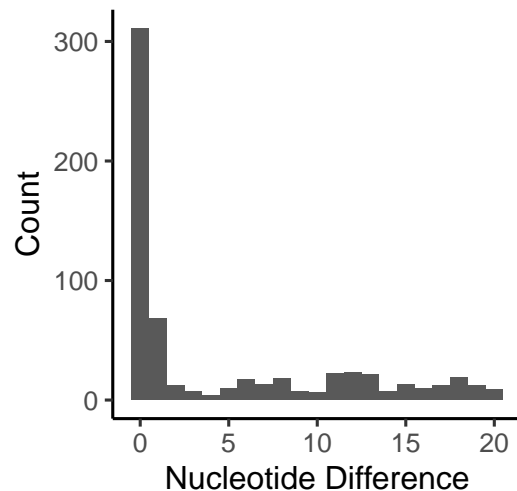
IGHV3-64*01

64 sequences assigned
23 (35.9%) exact matches, in which:
23 unique CDR3
5 unique J



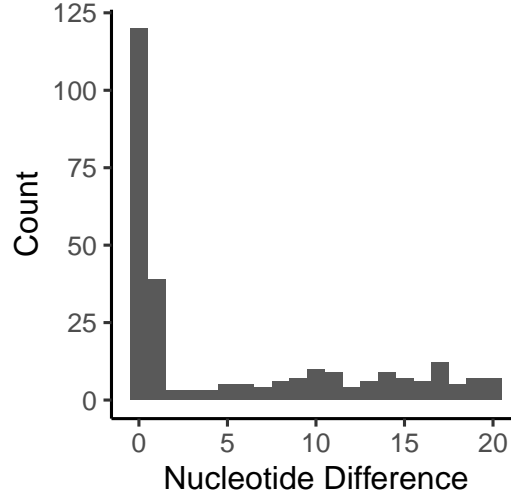
IGHV3-33*01

761 sequences assigned
311 (40.9%) exact matches, in which:
308 unique CDR3
6 unique J



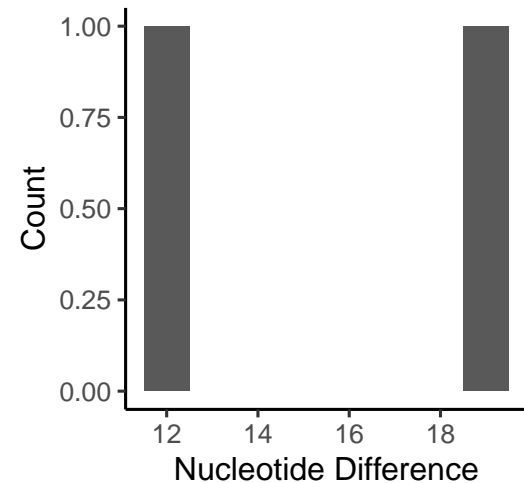
IGHV3-49*03

336 sequences assigned
120 (35.7%) exact matches, in which:
119 unique CDR3
5 unique J



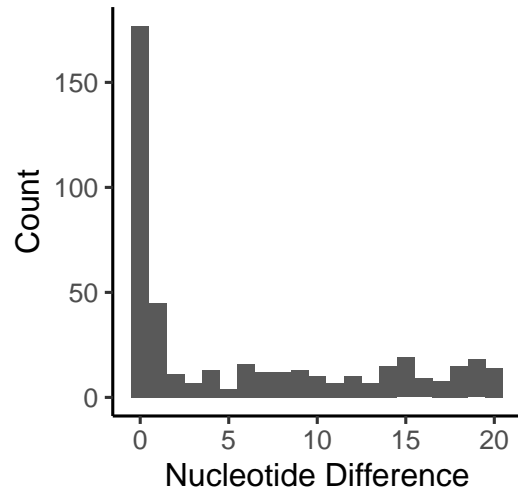
IGHV3-64*07

8 sequences assigned
No exact matches.



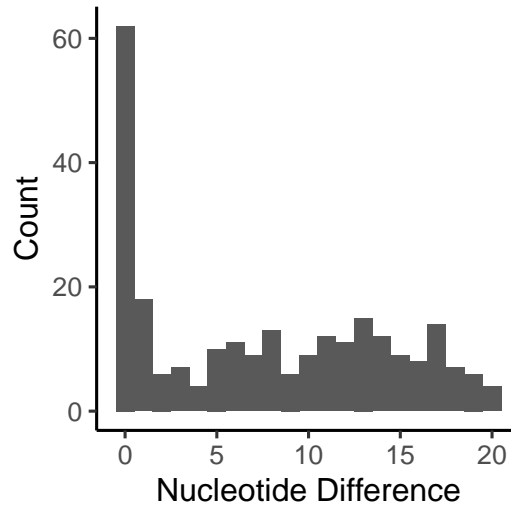
IGHV3-66*01

528 sequences assigned
177 (33.5%) exact matches, in which:
177 unique CDR3
6 unique J



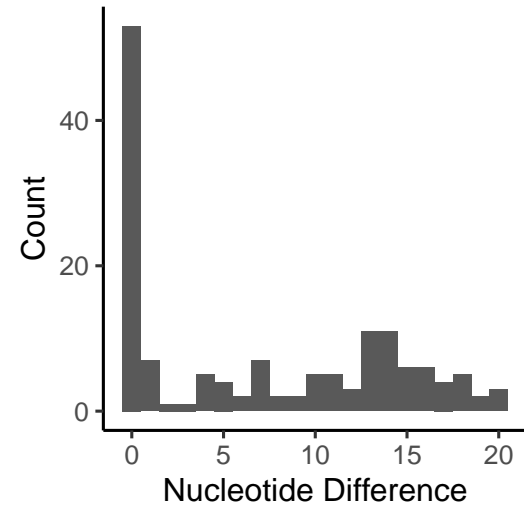
IGHV3-74*01

323 sequences assigned
62 (19.2%) exact matches, in which:
62 unique CDR3
5 unique J



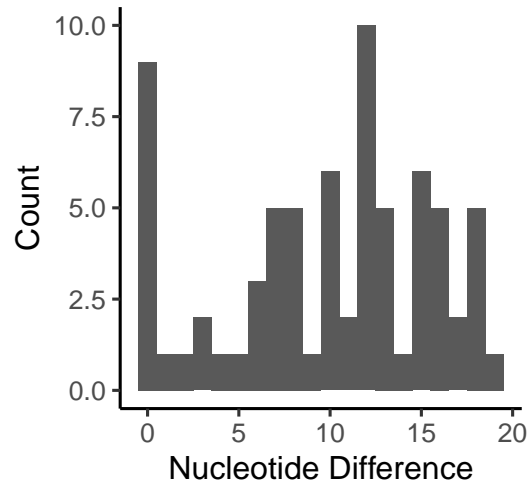
IGHV4-4*07

204 sequences assigned
53 (26%) exact matches, in which:
53 unique CDR3
4 unique J



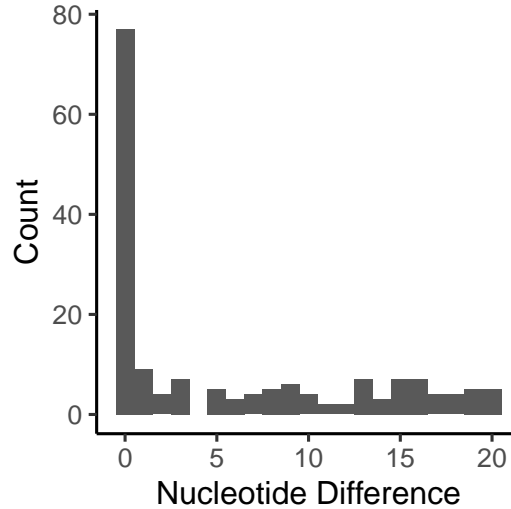
IGHV3-72*01

85 sequences assigned
9 (10.6%) exact matches, in which:
9 unique CDR3
3 unique J



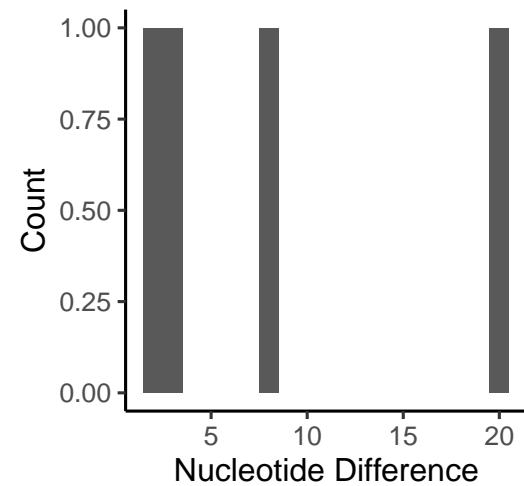
IGHV3-64D*06

213 sequences assigned
77 (36.2%) exact matches, in which:
77 unique CDR3
6 unique J



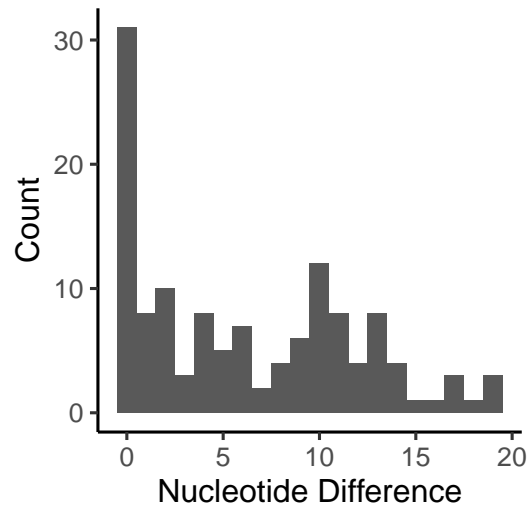
IGHV4-28*01

6 sequences assigned
No exact matches.



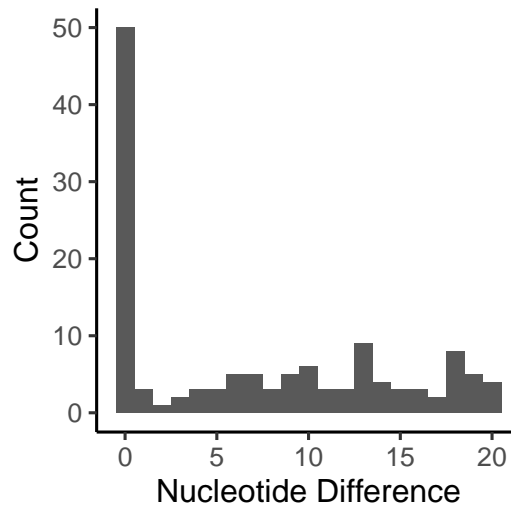
IGHV3-73*01

140 sequences assigned
31 (22.1%) exact matches, in which:
31 unique CDR3
5 unique J



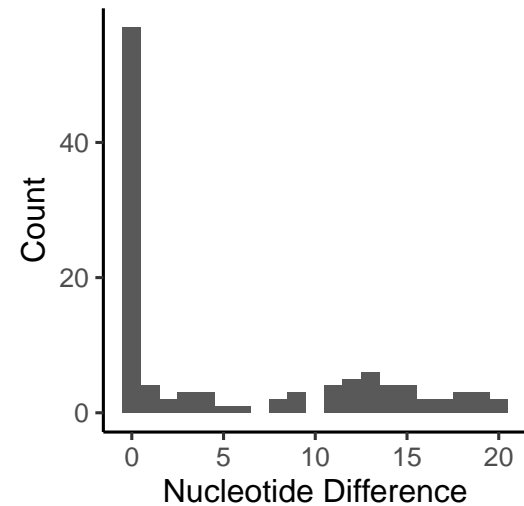
IGHV4-4*02

182 sequences assigned
50 (27.5%) exact matches, in which:
50 unique CDR3
5 unique J



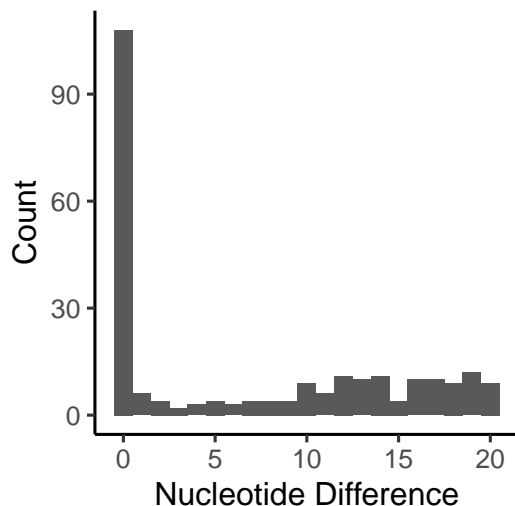
IGHV4-30-2*01

143 sequences assigned
57 (39.9%) exact matches, in which:
57 unique CDR3
6 unique J



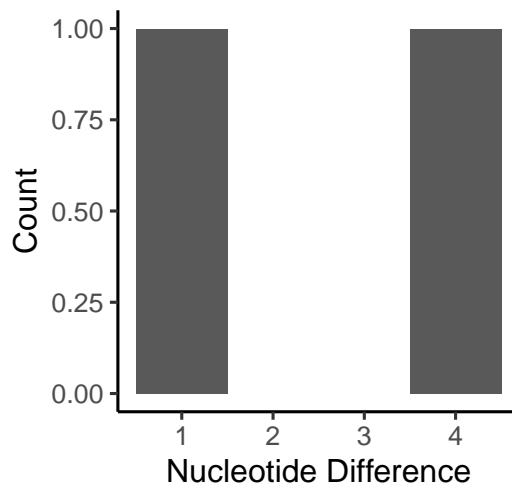
IGHV4-30-4*01

310 sequences assigned
108 (34.8%) exact matches, in which:
108 unique CDR3
5 unique J



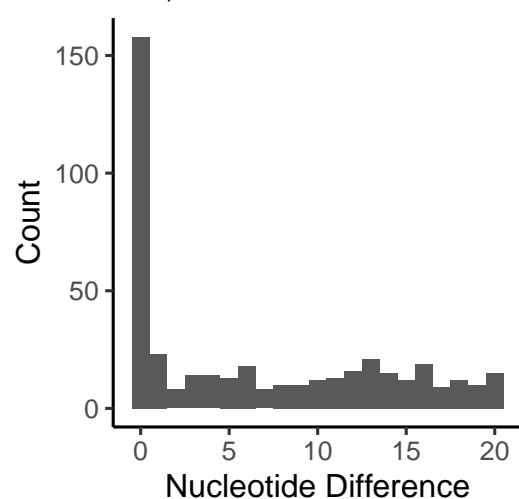
IGHV4-38-2*02

2 sequences assigned
No exact matches.



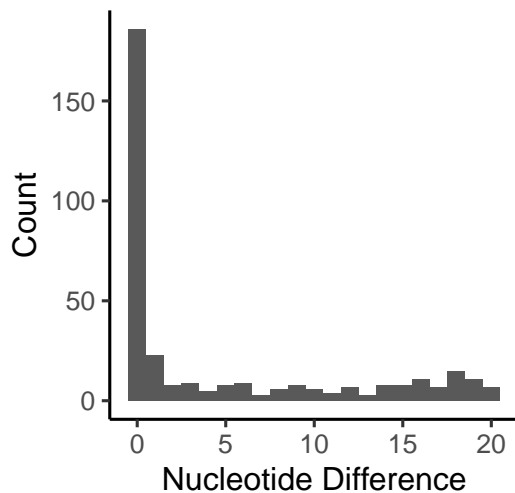
IGHV4-59*08

564 sequences assigned
158 (28%) exact matches, in which:
158 unique CDR3
6 unique J



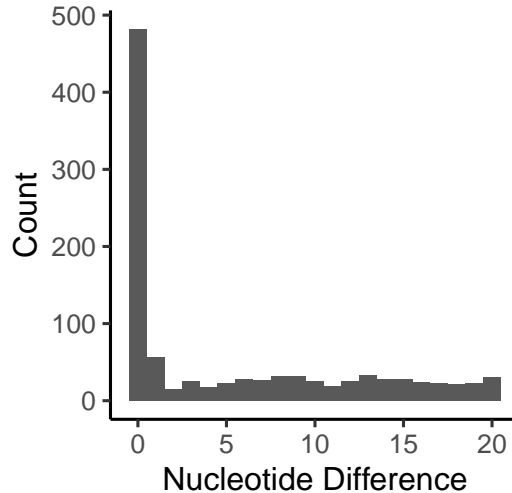
IGHV4-31*03

499 sequences assigned
186 (37.3%) exact matches, in which:
184 unique CDR3
5 unique J



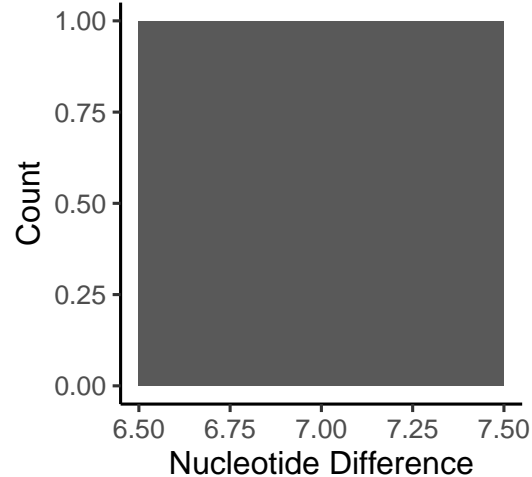
IGHV4-39*01

1365 sequences assigned
482 (35.3%) exact matches, in which:
478 unique CDR3
6 unique J



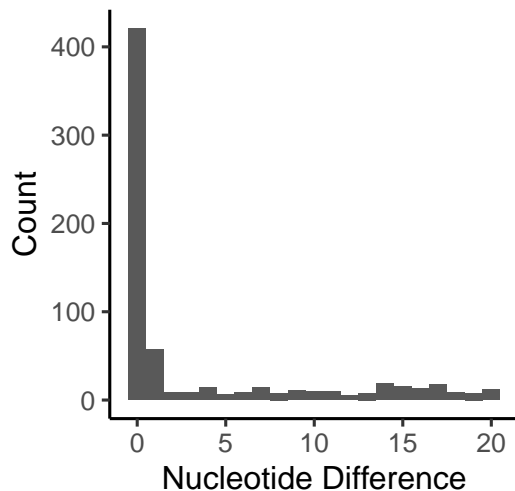
IGHV4-61*03

1 sequences assigned
No exact matches.



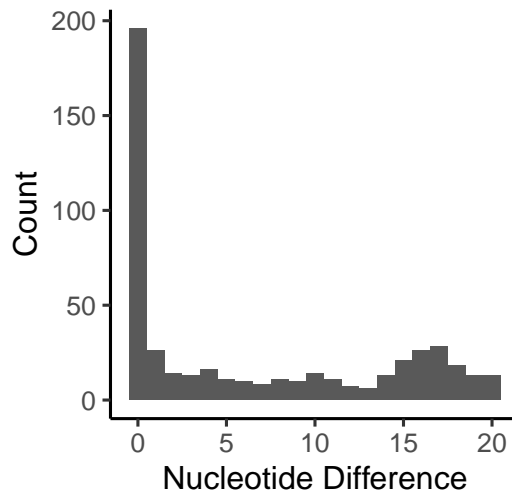
IGHV4-34*01

836 sequences assigned
421 (50.4%) exact matches, in which:
420 unique CDR3
6 unique J



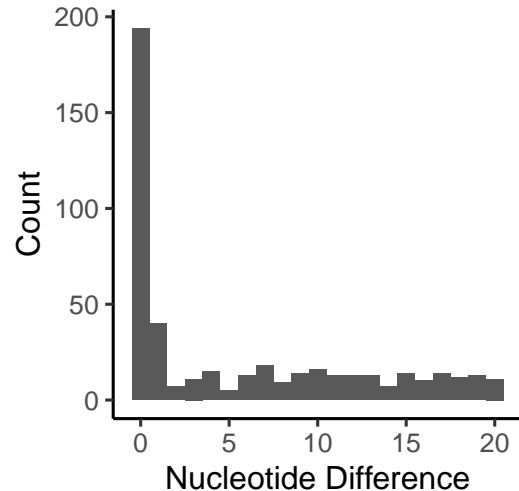
IGHV4-59*01

606 sequences assigned
196 (32.3%) exact matches, in which:
196 unique CDR3
6 unique J



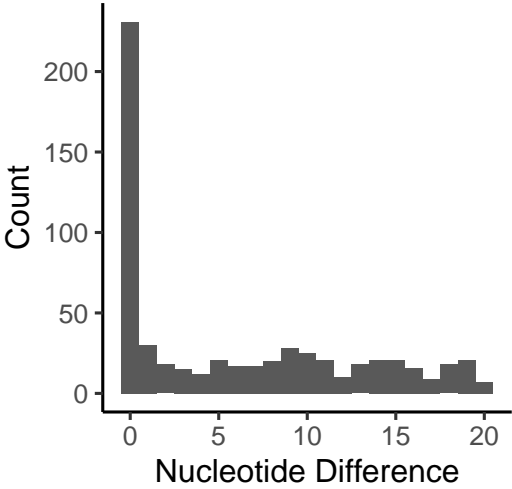
IGHV5-10-1*03

627 sequences assigned
194 (30.9%) exact matches, in which:
193 unique CDR3
6 unique J



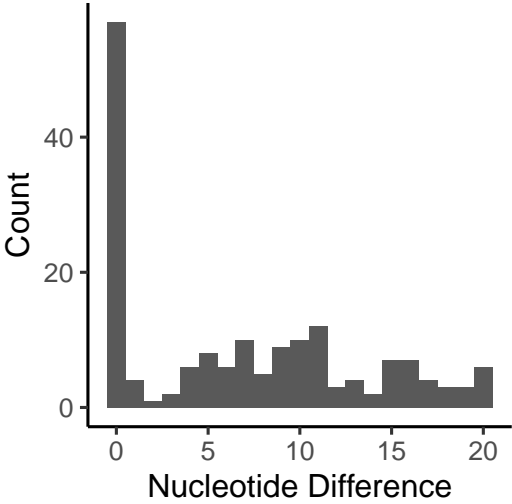
IGHV5-51*01_C45G

740 sequences assigned
231 (31.2%) exact matches, in which:
231 unique CDR3
6 unique J



IGHV6-1*01

206 sequences assigned
57 (27.7%) exact matches, in which:
57 unique CDR3
5 unique J



IGHV7-4-1*02

209 sequences assigned
65 (31.1%) exact matches, in which:
65 unique CDR3
6 unique J

