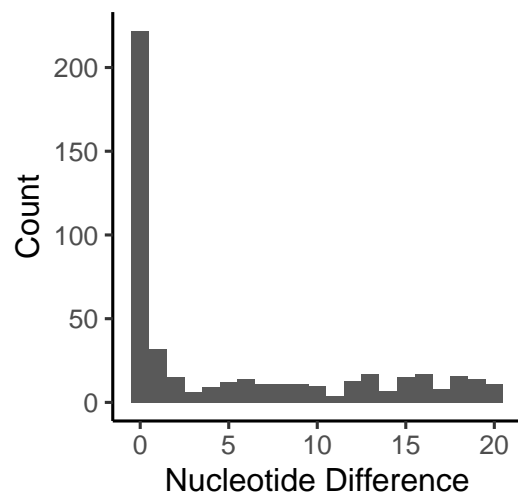


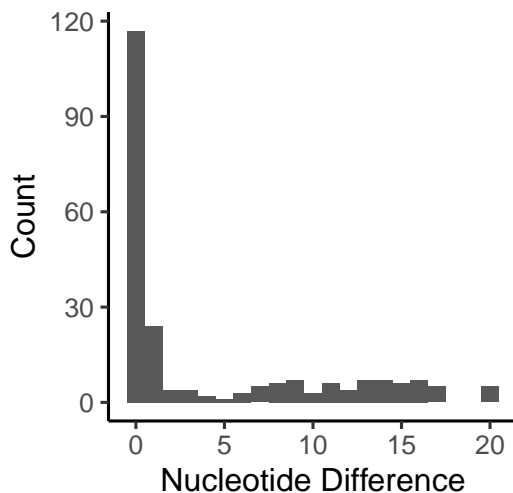
IGHV1-2*02

589 sequences assigned
222 (37.7%) exact matches, in which:
222 unique CDR3
6 unique J



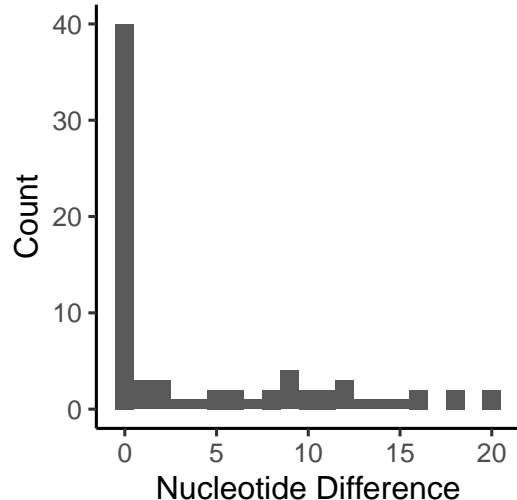
IGHV1-24*01

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



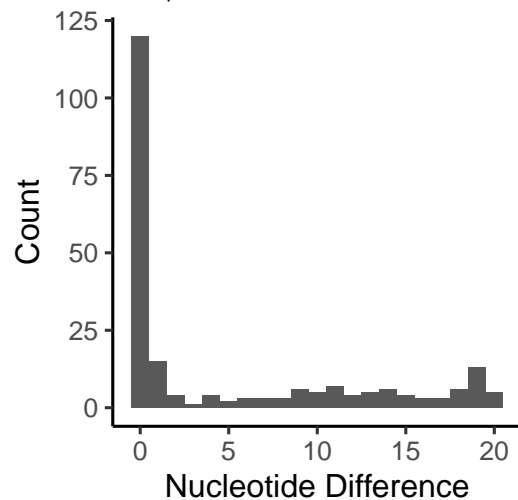
IGHV1-46*03

104 sequences assigned
40 (38.5%) exact matches, in which:
40 unique CDR3
4 unique J



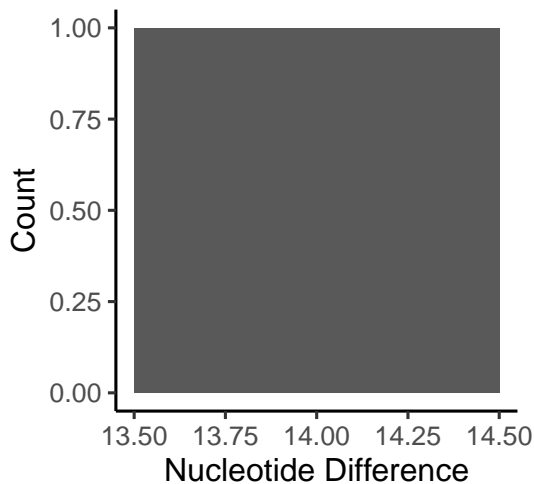
IGHV1-3*01

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



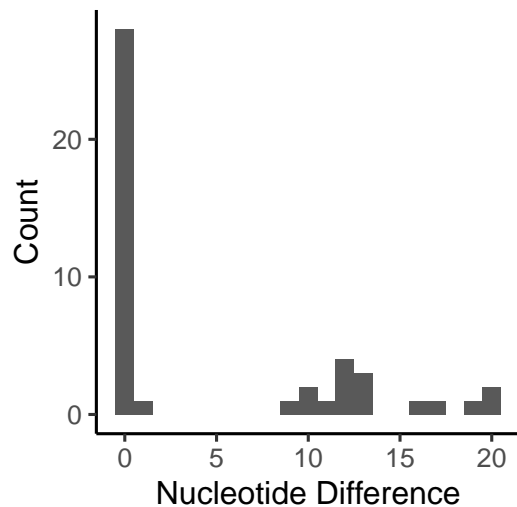
IGHV1-45*02

1 sequences assigned
No exact matches.



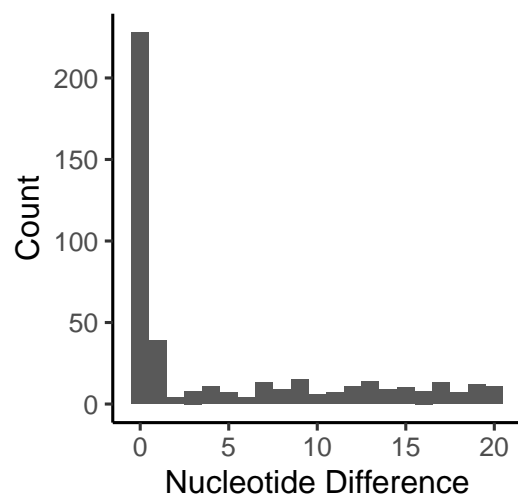
IGHV1-58*02

59 sequences assigned
28 (47.5%) exact matches, in which:
28 unique CDR3
5 unique J



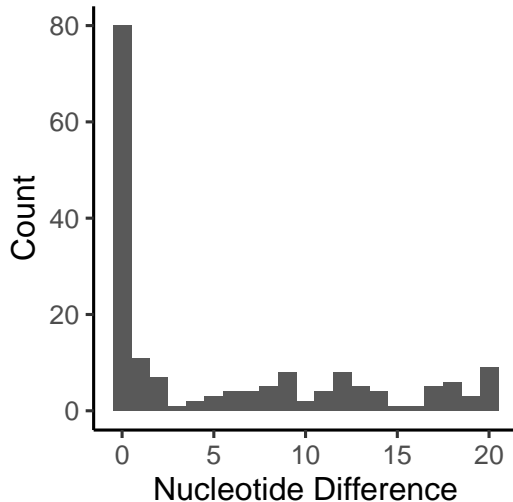
IGHV1-18*01

571 sequences assigned
228 (39.9%) exact matches, in which:
228 unique CDR3
6 unique J



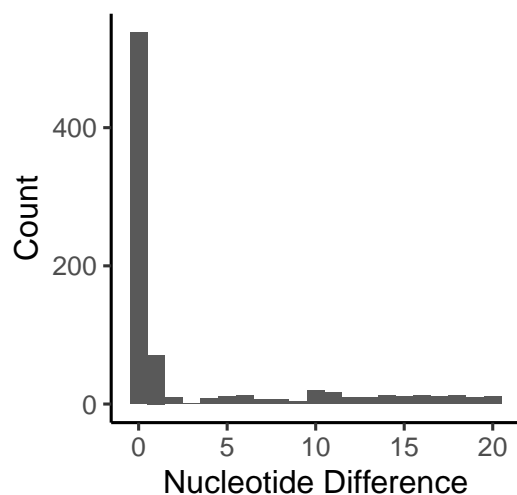
IGHV1-46*01

240 sequences assigned
80 (33.3%) exact matches, in which:
80 unique CDR3
6 unique J



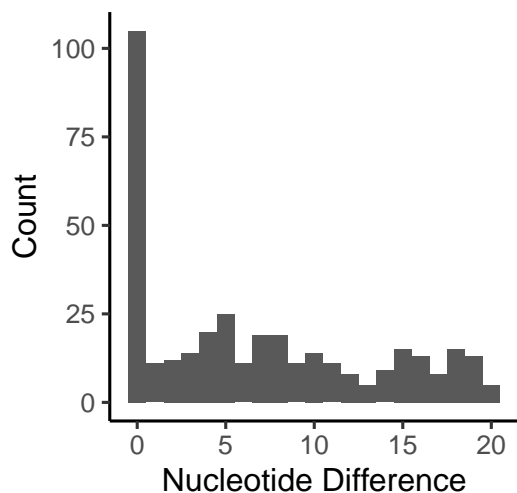
IGHV1-69*04

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



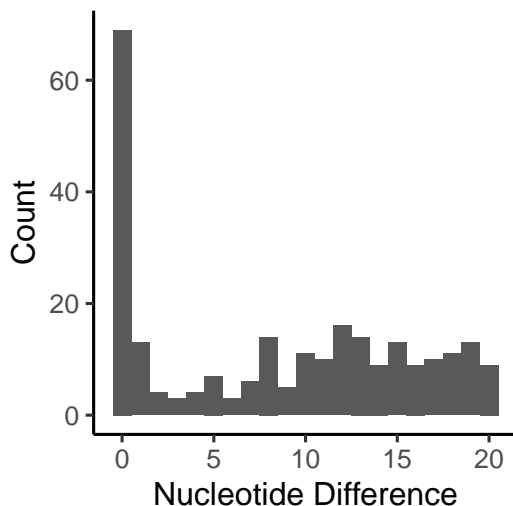
IGHV2-5*02

427 sequences assigned
105 (24.6%) exact matches, in which:
105 unique CDR3
5 unique J



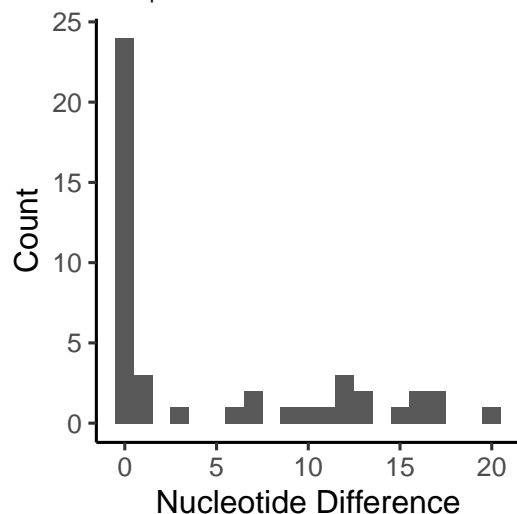
IGHV3-7*01

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



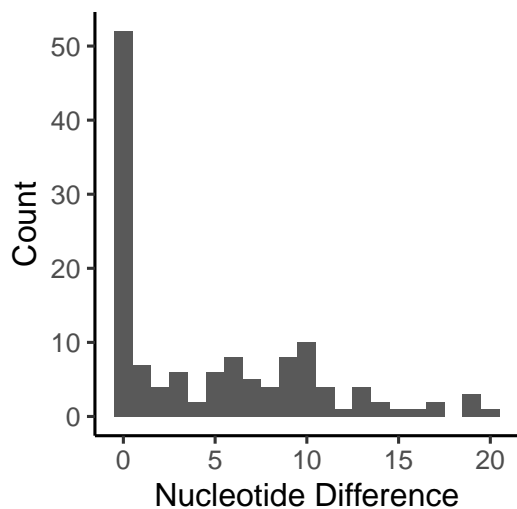
IGHV3-13*05

52 sequences assigned
24 (46.2%) exact matches, in which:
24 unique CDR3
4 unique J



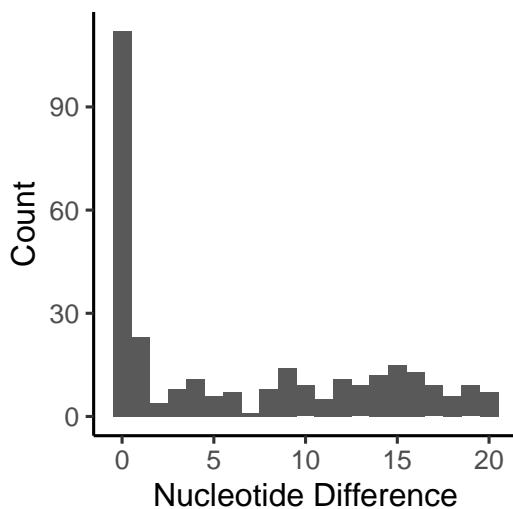
IGHV2-26*01

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



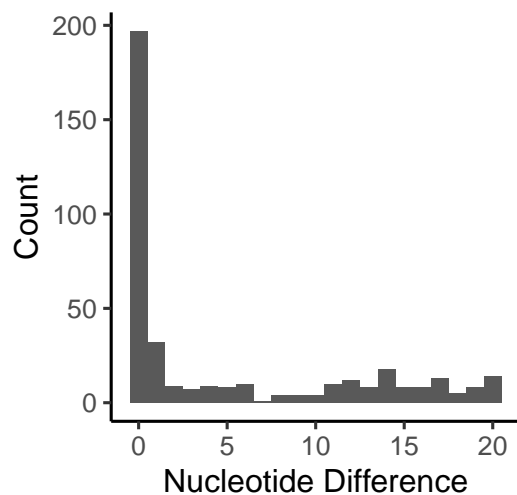
IGHV3-7*03

377 sequences assigned
112 (29.7%) exact matches, in which:
112 unique CDR3
6 unique J



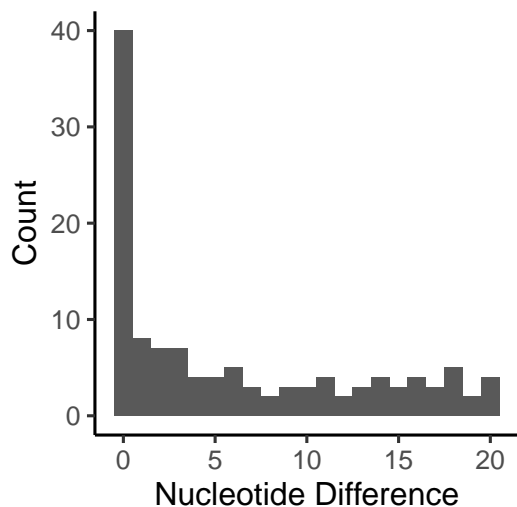
IGHV3-15*01

487 sequences assigned
197 (40.5%) exact matches, in which:
197 unique CDR3
6 unique J



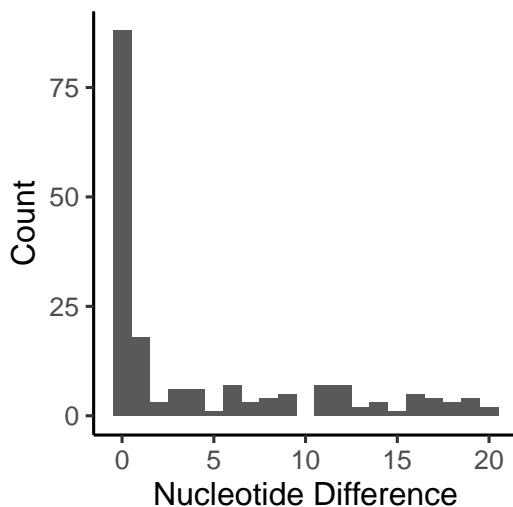
IGHV2-70*15

137 sequences assigned
40 (29.2%) exact matches, in which:
40 unique CDR3
4 unique J



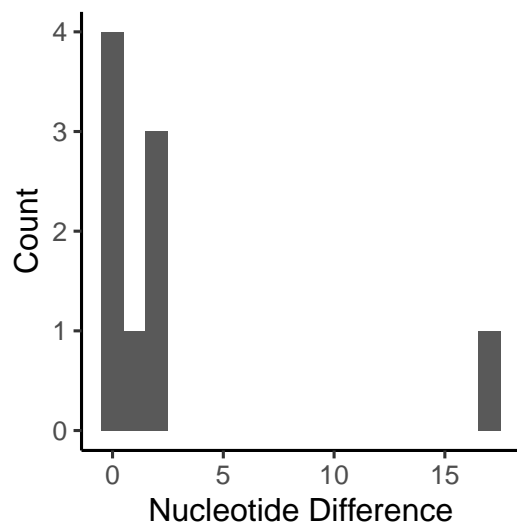
IGHV3-11*06

231 sequences assigned
88 (38.1%) exact matches, in which:
88 unique CDR3
6 unique J



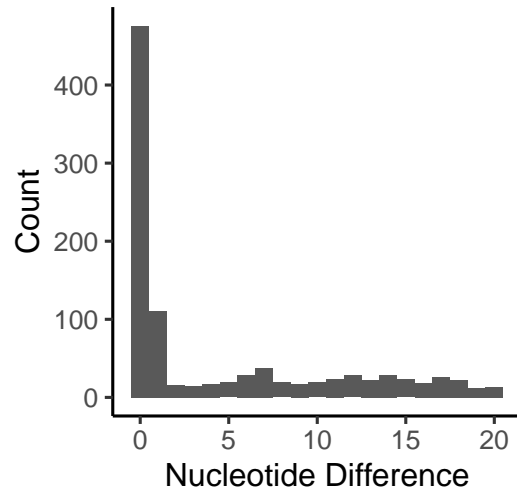
IGHV3-20*01

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



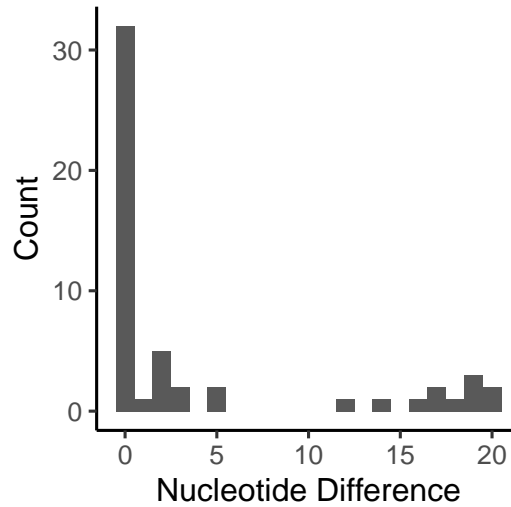
IGHV3-21*01

1114 sequences assigned
476 (42.7%) exact matches, in which:
474 unique CDR3
6 unique J



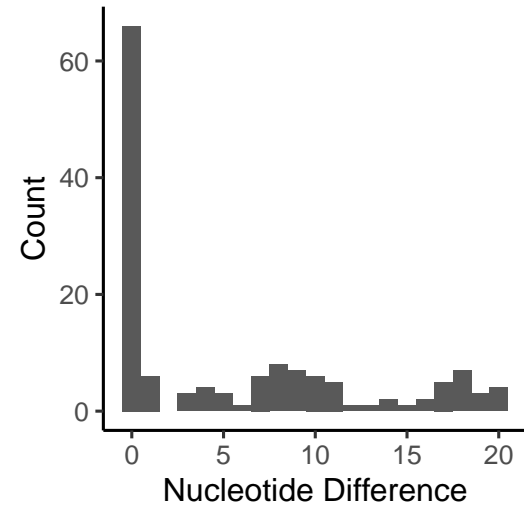
IGHV3-43*01

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



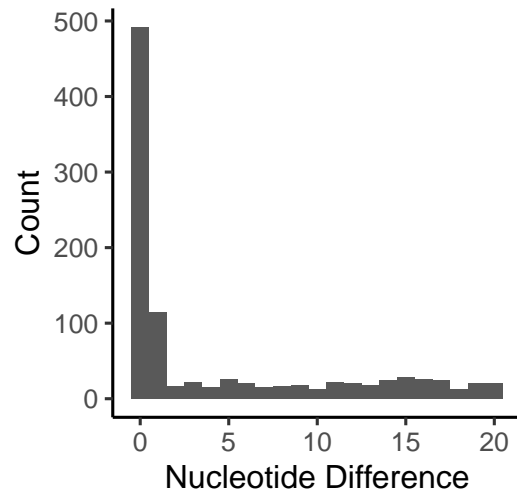
IGHV3-53*02

166 sequences assigned
66 (39.8%) exact matches, in which:
66 unique CDR3
5 unique J



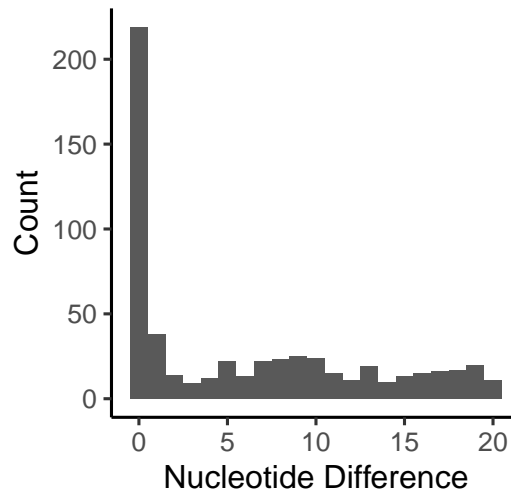
IGHV3-30-3*01

1241 sequences assigned
492 (39.6%) exact matches, in which:
491 unique CDR3
6 unique J



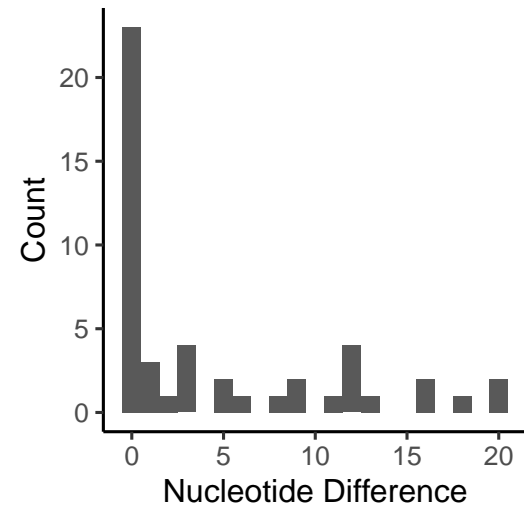
IGHV3-48*01

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



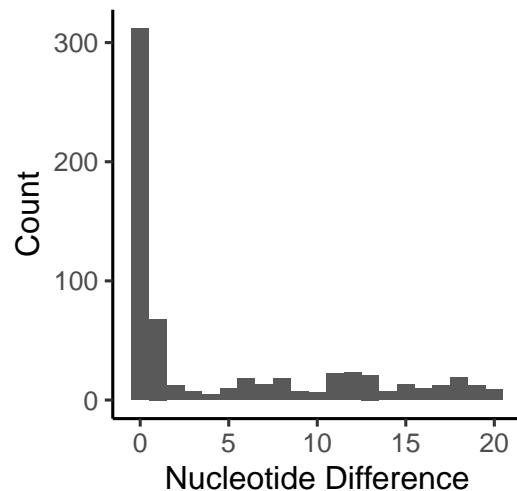
IGHV3-64*01

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



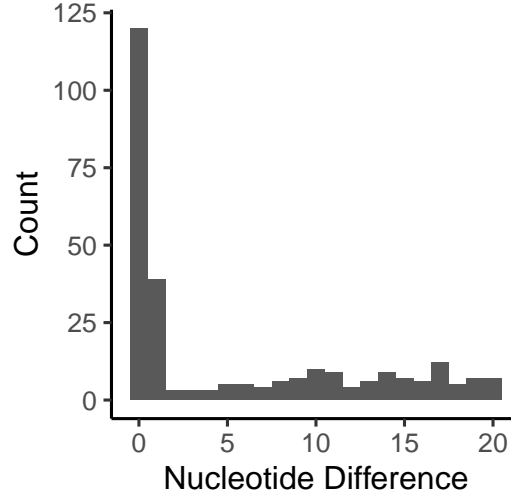
IGHV3-33*01

764 sequences assigned
312 (40.8%) exact matches, in which:
309 unique CDR3
6 unique J



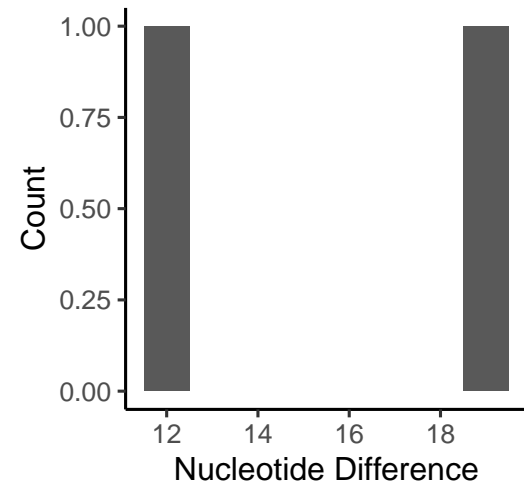
IGHV3-49*03

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



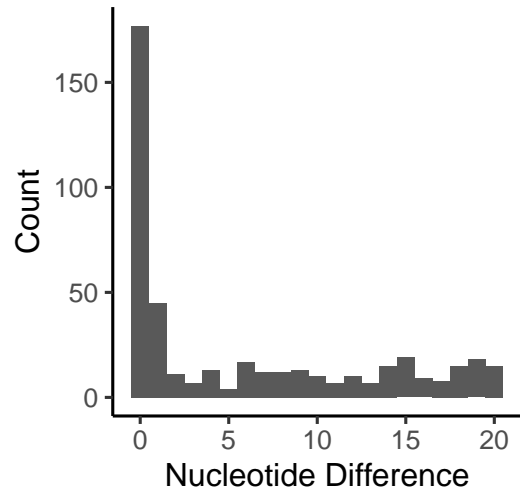
IGHV3-64*07

8 sequences assigned
No exact matches.



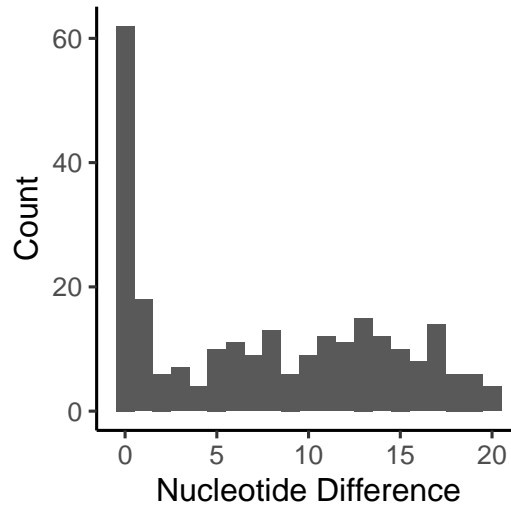
IGHV3-66*01

532 sequences assigned
177 (33.3%) exact matches, in which:
177 unique CDR3
6 unique J



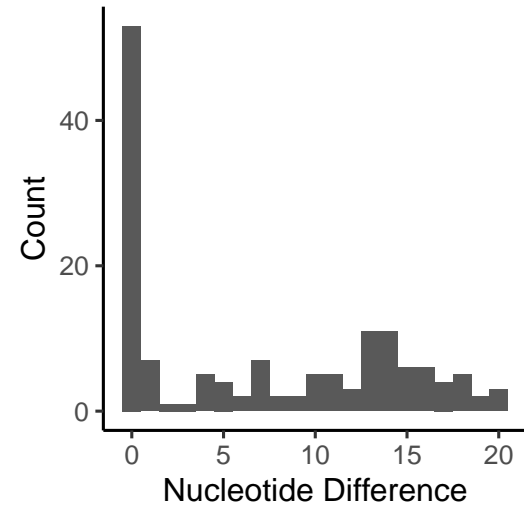
IGHV3-74*01

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



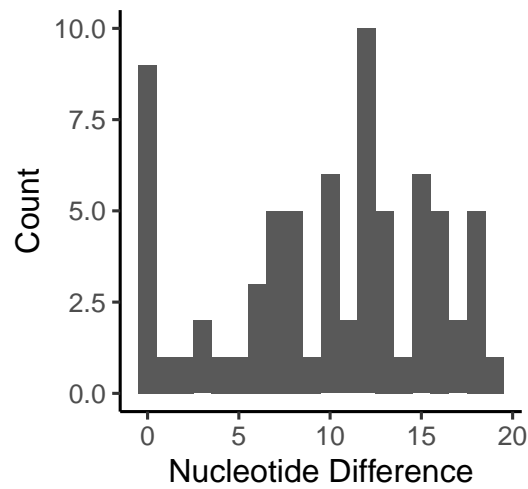
IGHV4-4*07

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



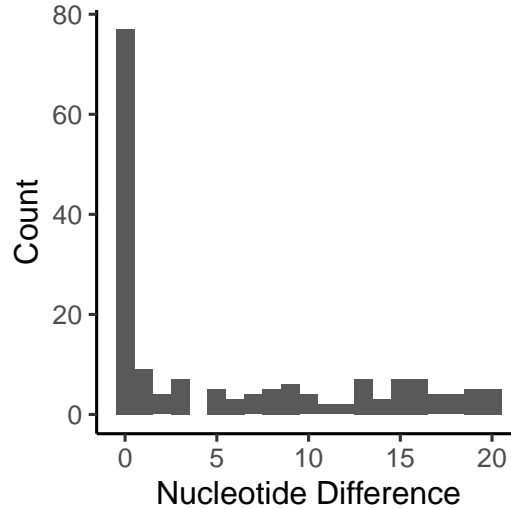
IGHV3-72*01

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



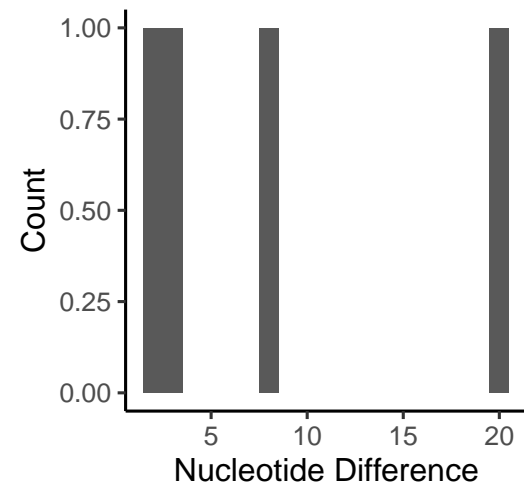
IGHV3-64D*06

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



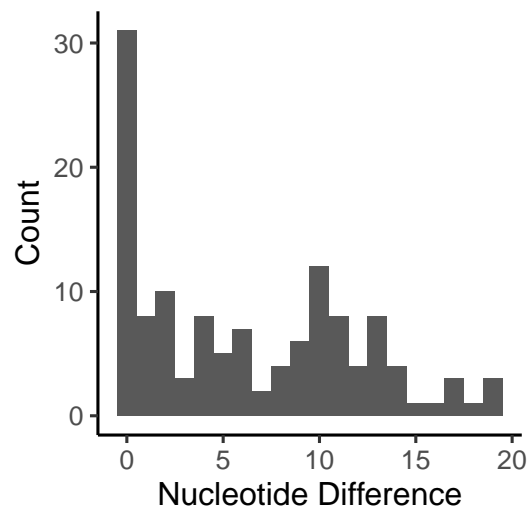
IGHV4-28*01

6 sequences assigned
No exact matches.



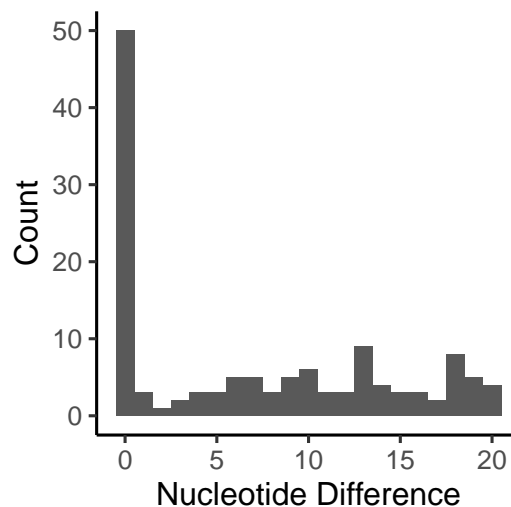
IGHV3-73*01

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



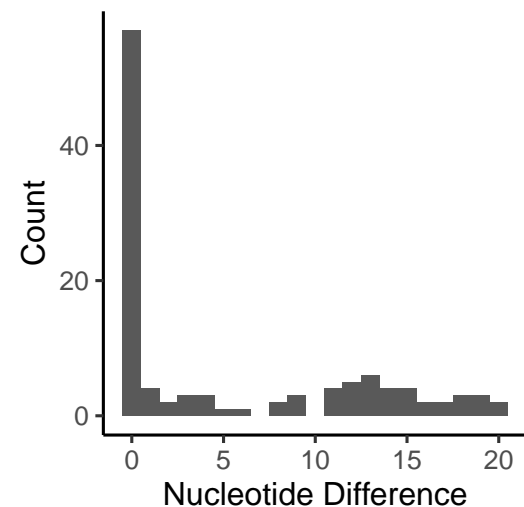
IGHV4-4*02

178 sequences assigned
50 (28.1%) exact matches, in which:
50 unique CDR3
5 unique J



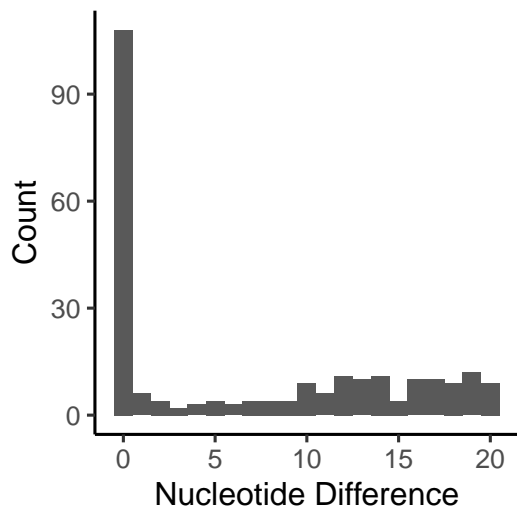
IGHV4-30-2*01

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



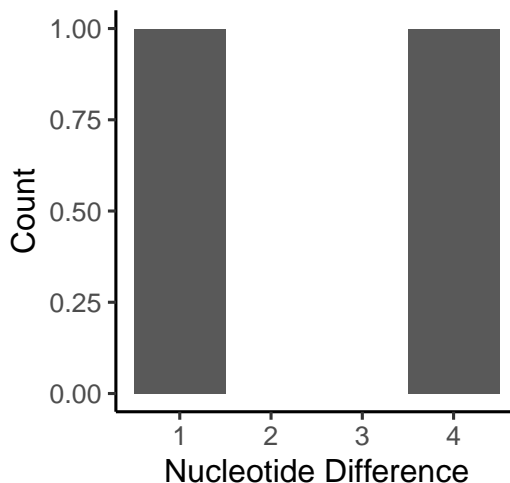
IGHV4-30-4*01

311 sequences assigned
108 (34.7%) exact matches, in which:
108 unique CDR3
5 unique J



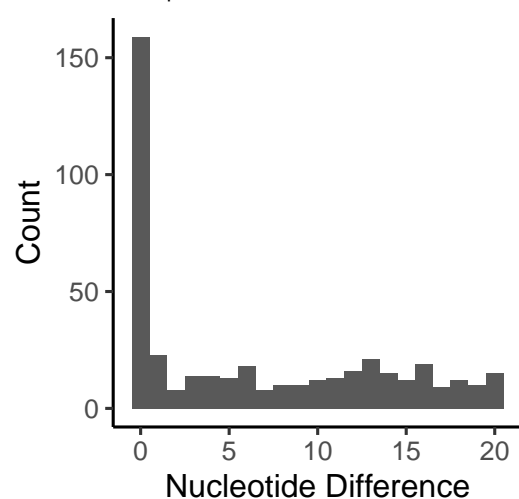
IGHV4-38-2*02

2 sequences assigned
No exact matches.



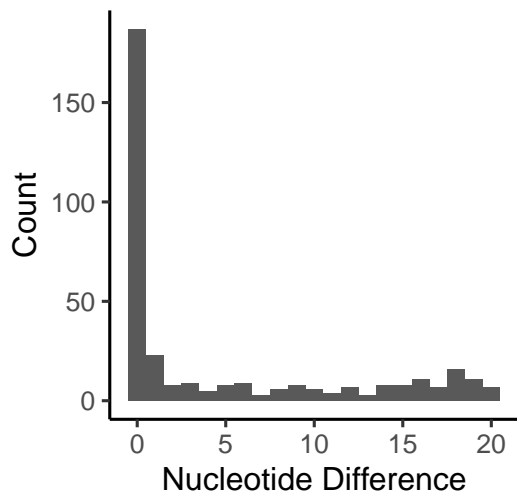
IGHV4-59*08

565 sequences assigned
159 (28.1%) exact matches, in which:
159 unique CDR3
6 unique J



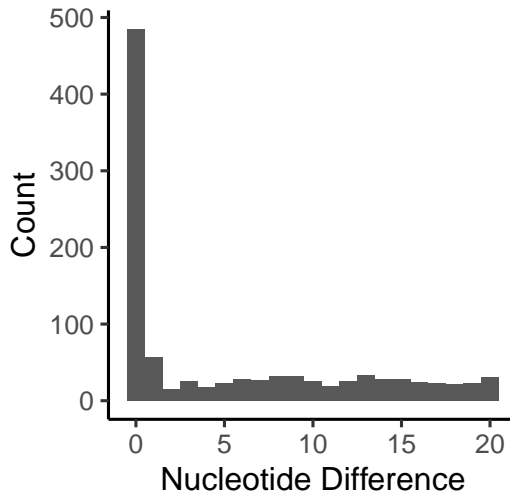
IGHV4-31*03

501 sequences assigned
187 (37.3%) exact matches, in which:
185 unique CDR3
5 unique J



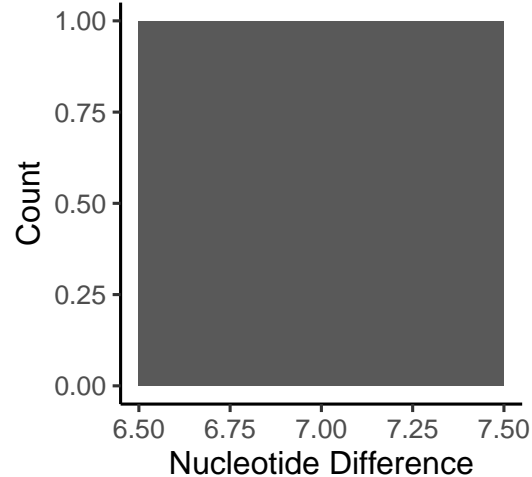
IGHV4-39*01

1368 sequences assigned
485 (35.5%) exact matches, in which:
481 unique CDR3
6 unique J



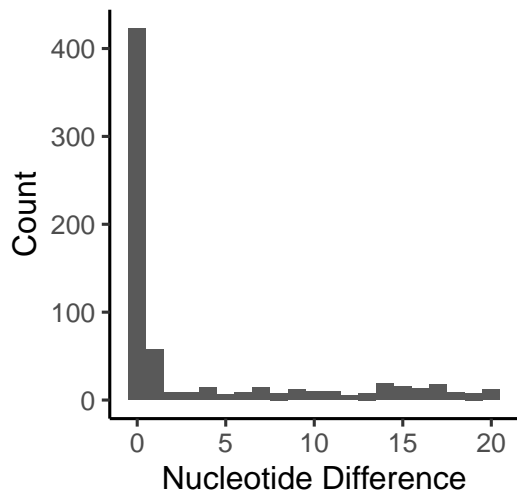
IGHV4-61*03

1 sequences assigned
No exact matches.



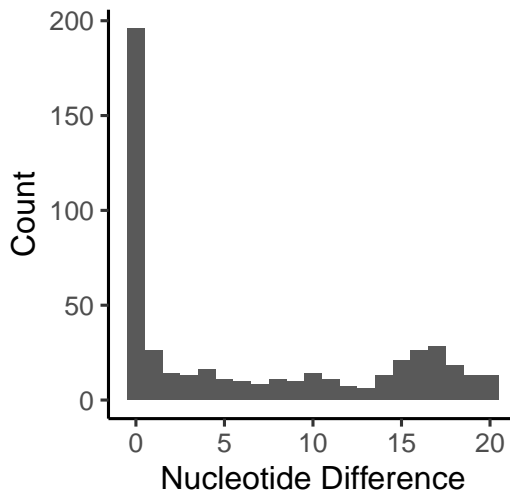
IGHV4-34*01

840 sequences assigned
423 (50.4%) exact matches, in which:
422 unique CDR3
6 unique J



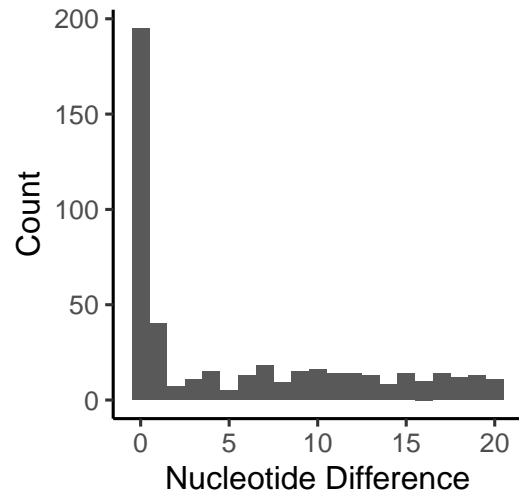
IGHV4-59*01

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



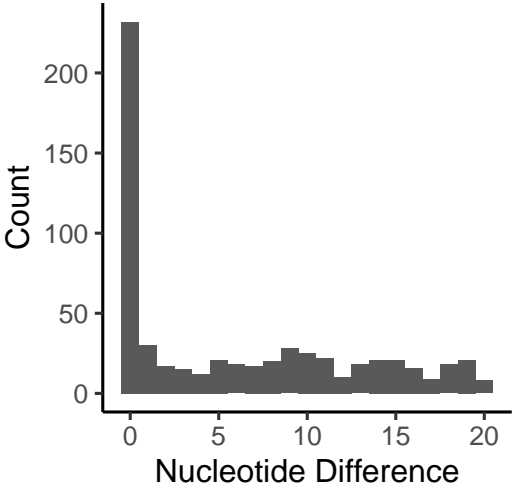
IGHV5-10-1*03

634 sequences assigned
195 (30.8%) exact matches, in which:
194 unique CDR3
6 unique J



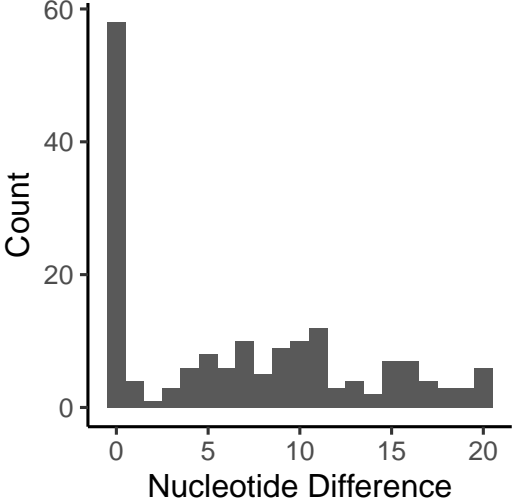
IGHV5–51*01_C45G

743 sequences assigned
232 (31.2%) exact matches, in which:
232 unique CDR3
6 unique J



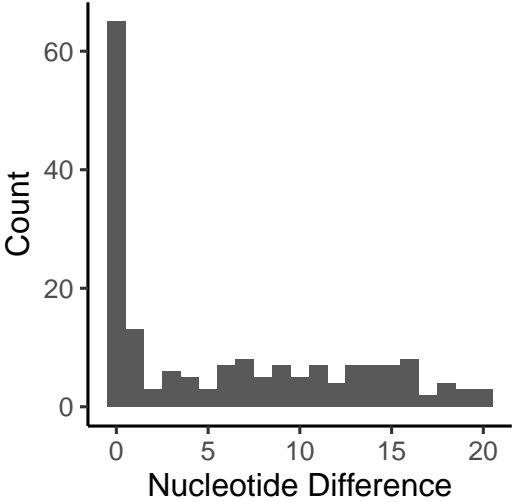
IGHV6–1*01

209 sequences assigned
58 (27.8%) exact matches, in which:
58 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





Warning – no inferred sequences found.