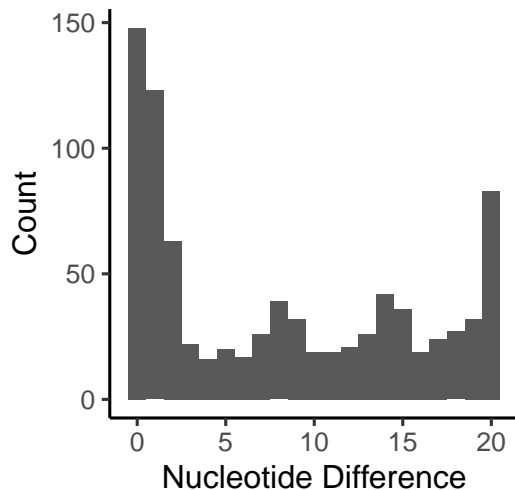


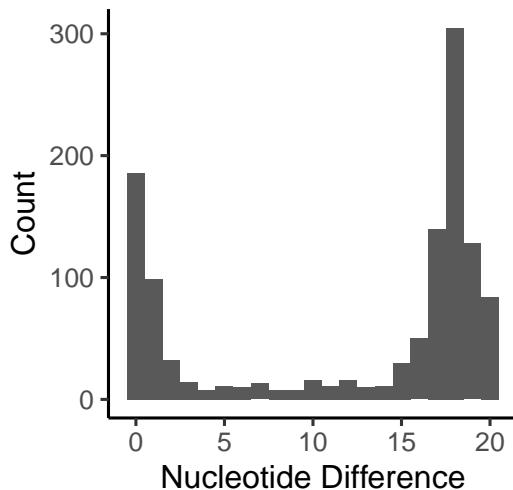
IGHV1-2*02

1410 sequences assigned
148 (10.5%) exact matches, in which:
142 unique CDR3
6 unique J



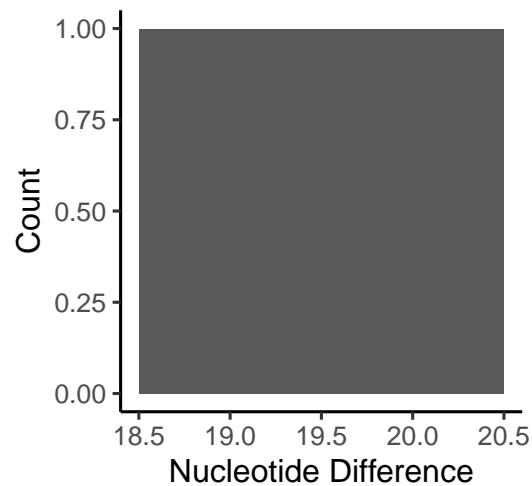
IGHV1-18*01

1609 sequences assigned
186 (11.6%) exact matches, in which:
170 unique CDR3
5 unique J



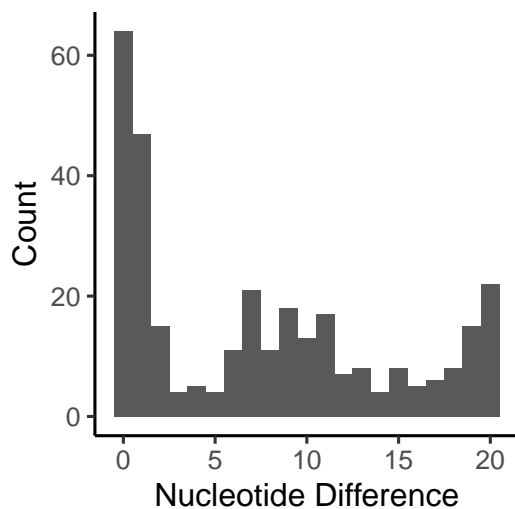
IGHV1-45*02

2 sequences assigned
No exact matches.



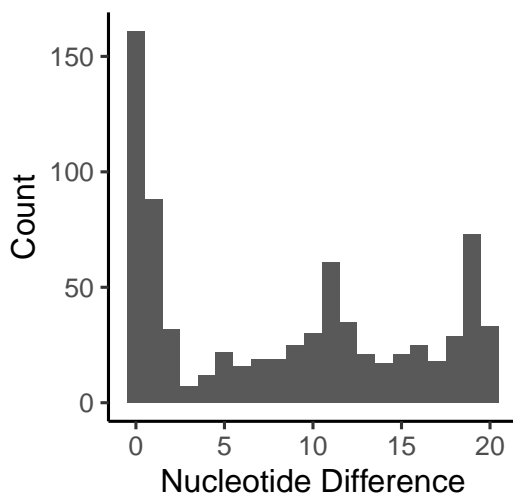
IGHV1-3*01

548 sequences assigned
64 (11.7%) exact matches, in which:
63 unique CDR3
4 unique J



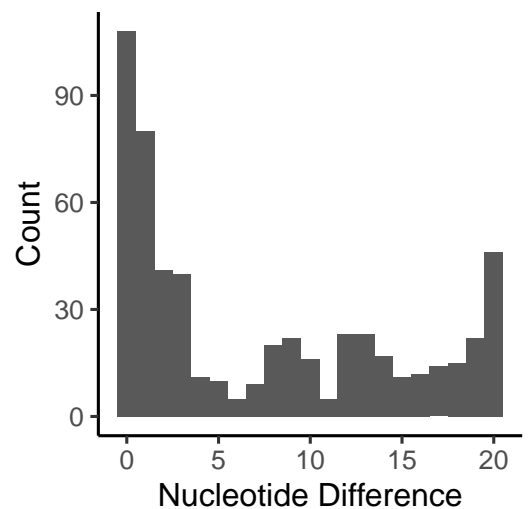
IGHV1-18*04

897 sequences assigned
161 (17.9%) exact matches, in which:
151 unique CDR3
5 unique J



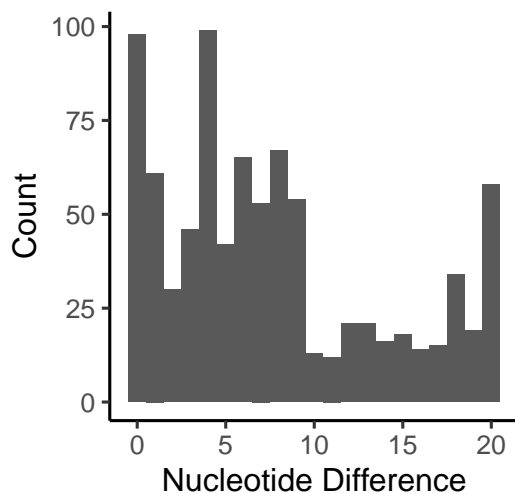
IGHV1-46*01

977 sequences assigned
108 (11.1%) exact matches, in which:
94 unique CDR3
5 unique J



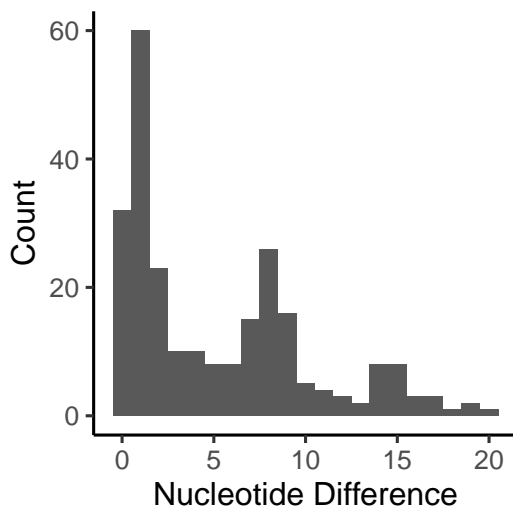
IGHV1-8*01

978 sequences assigned
98 (10%) exact matches, in which:
95 unique CDR3
5 unique J



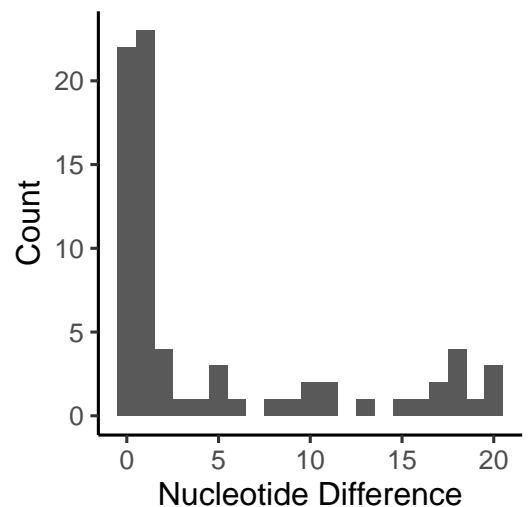
IGHV1-24*01

309 sequences assigned
32 (10.4%) exact matches, in which:
26 unique CDR3
4 unique J



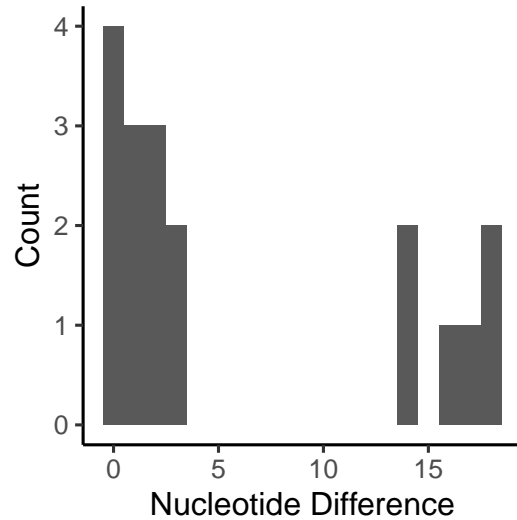
IGHV1-58*01

97 sequences assigned
22 (22.7%) exact matches, in which:
20 unique CDR3
6 unique J



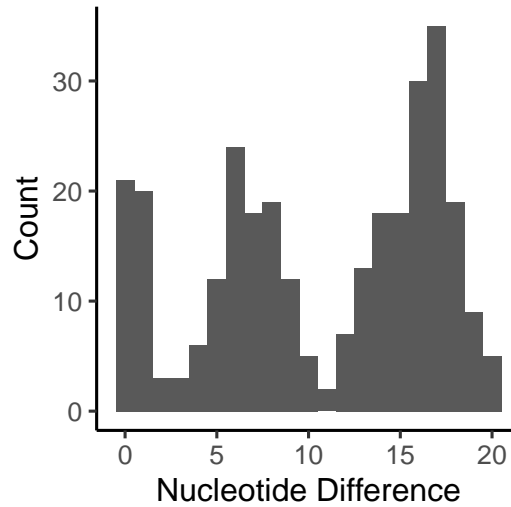
IGHV1-69-2*01

27 sequences assigned
4 (14.8%) exact matches, in which:
4 unique CDR3
1 unique J



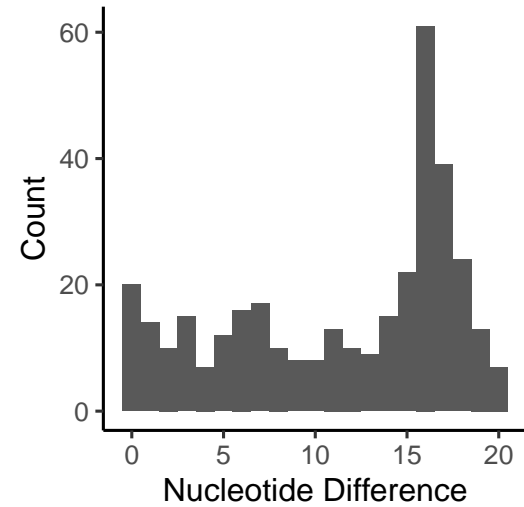
IGHV2-5*02

546 sequences assigned
21 (3.8%) exact matches, in which:
19 unique CDR3
5 unique J



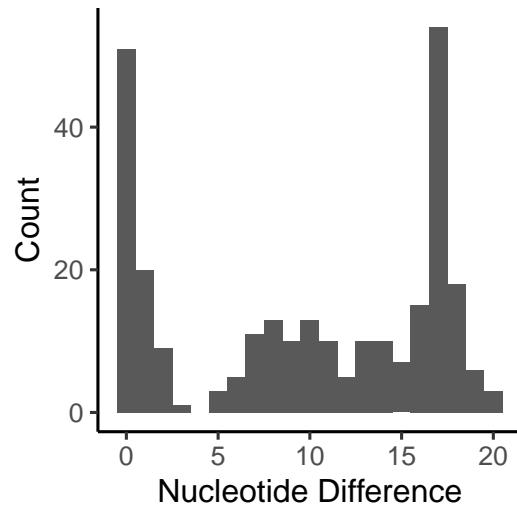
IGHV3-7*01

549 sequences assigned
20 (3.6%) exact matches, in which:
19 unique CDR3
5 unique J



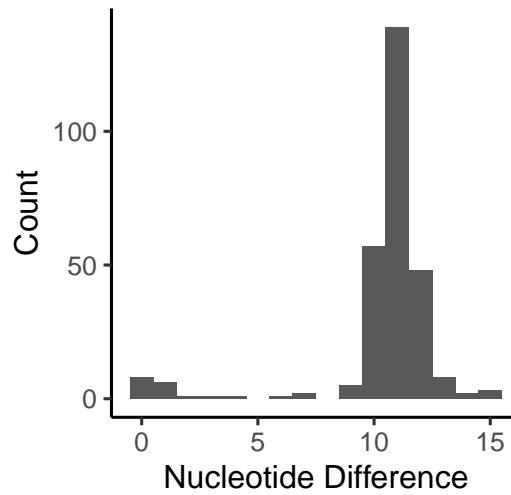
IGHV1-69*06

675 sequences assigned
51 (7.6%) exact matches, in which:
51 unique CDR3
5 unique J



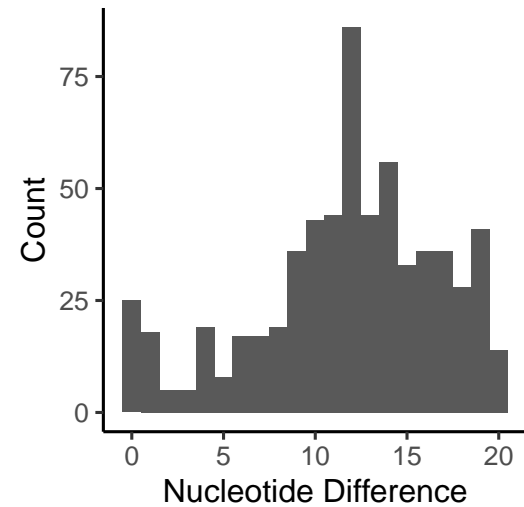
IGHV2-26*01

286 sequences assigned
8 (2.8%) exact matches, in which:
8 unique CDR3
3 unique J



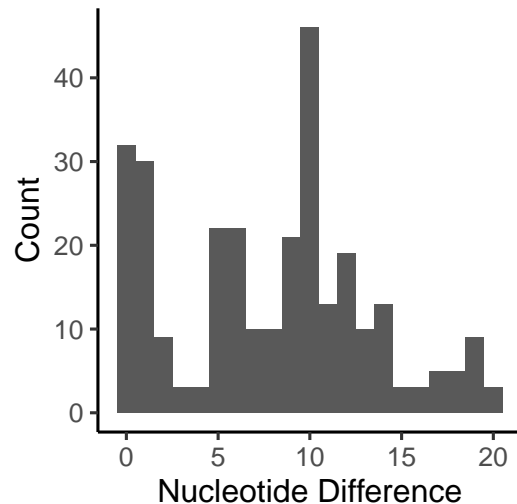
IGHV3-7*03

1037 sequences assigned
25 (2.4%) exact matches, in which:
24 unique CDR3
5 unique J



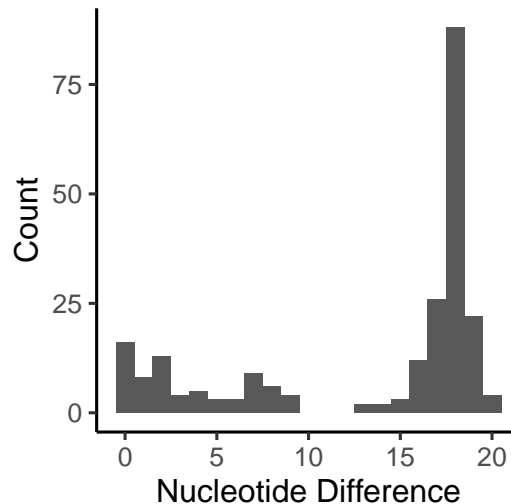
IGHV2-5*01

533 sequences assigned
32 (6%) exact matches, in which:
31 unique CDR3
5 unique J



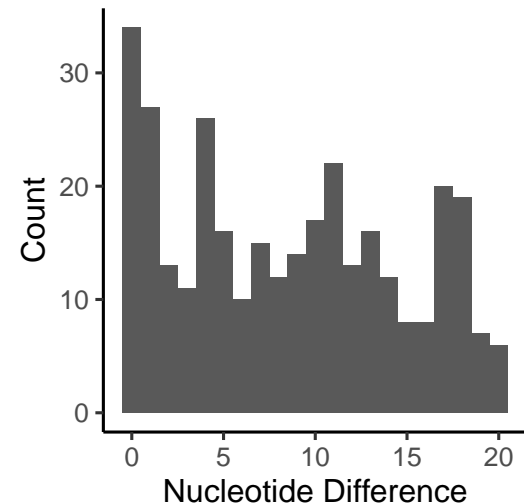
IGHV2-70*01

255 sequences assigned
16 (6.3%) exact matches, in which:
15 unique CDR3
5 unique J



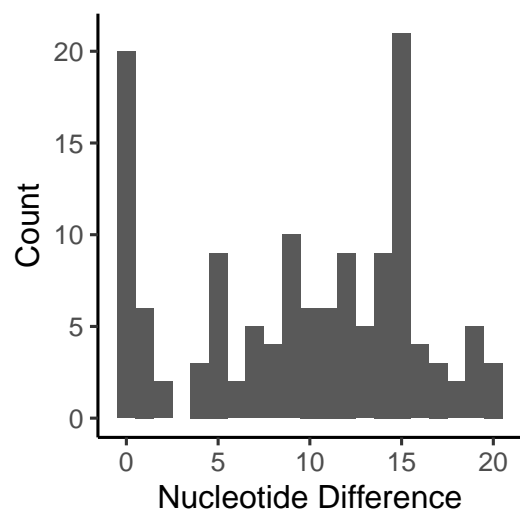
IGHV3-9*01

435 sequences assigned
34 (7.8%) exact matches, in which:
33 unique CDR3
3 unique J



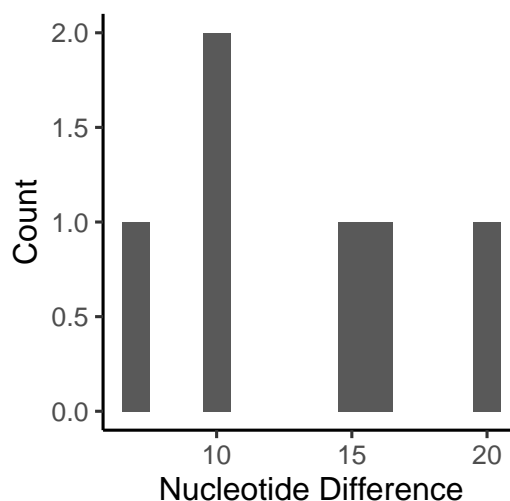
IGHV3-11*01

296 sequences assigned
20 (6.8%) exact matches, in which:
19 unique CDR3
4 unique J



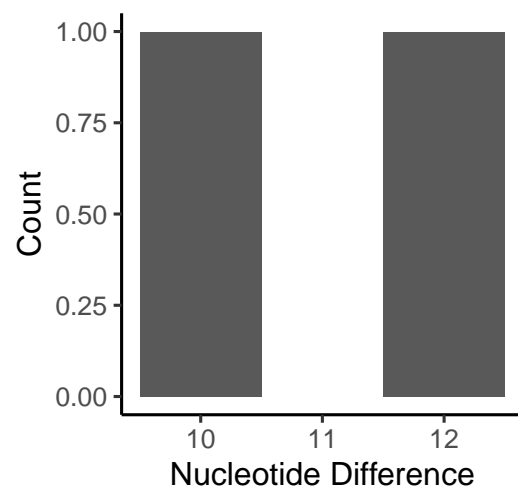
IGHV3-13*05

11 sequences assigned
No exact matches.



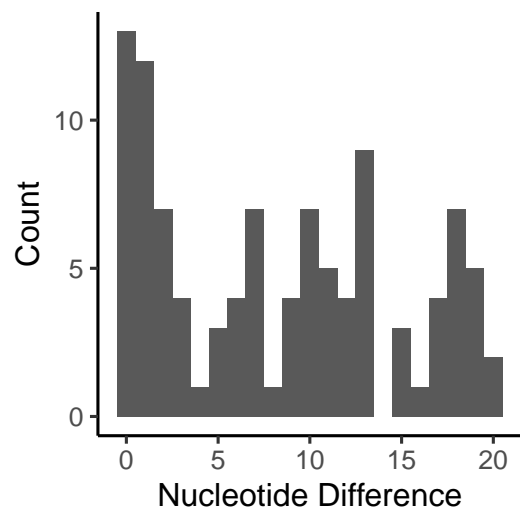
IGHV3-20*04

3 sequences assigned
No exact matches.



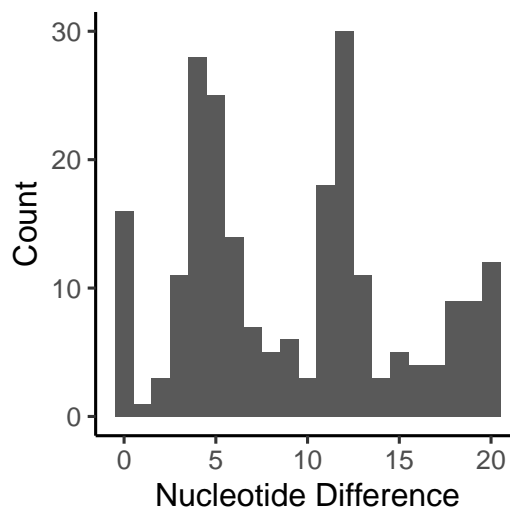
IGHV3-11*06

171 sequences assigned
13 (7.6%) exact matches, in which:
13 unique CDR3
3 unique J



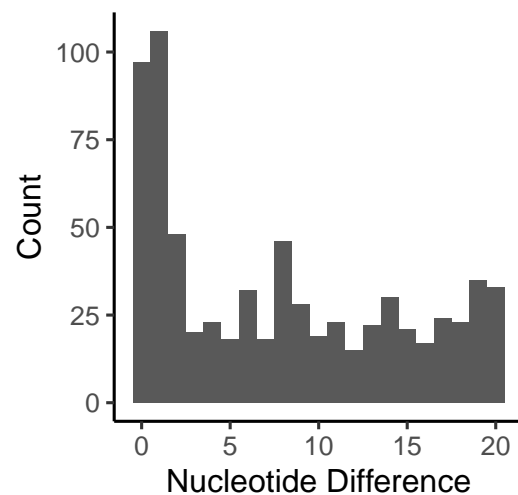
IGHV3-15*01

465 sequences assigned
16 (3.4%) exact matches, in which:
16 unique CDR3
3 unique J



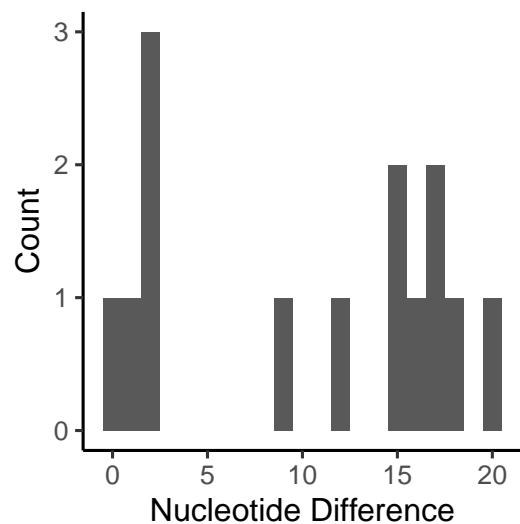
IGHV3-21*01

989 sequences assigned
97 (9.8%) exact matches, in which:
83 unique CDR3
6 unique J



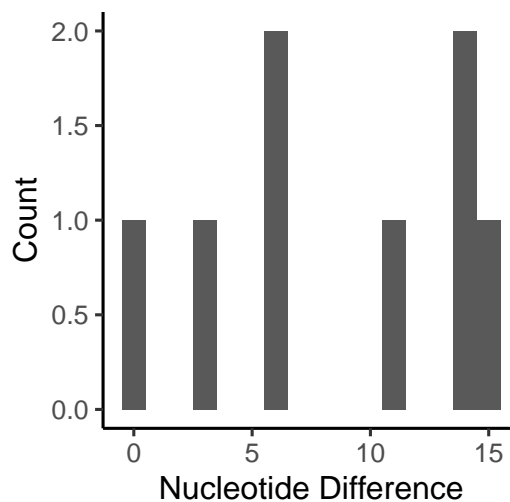
IGHV3-13*01

87 sequences assigned
1 (1.1%) exact matches, in which:
1 unique CDR3
1 unique J



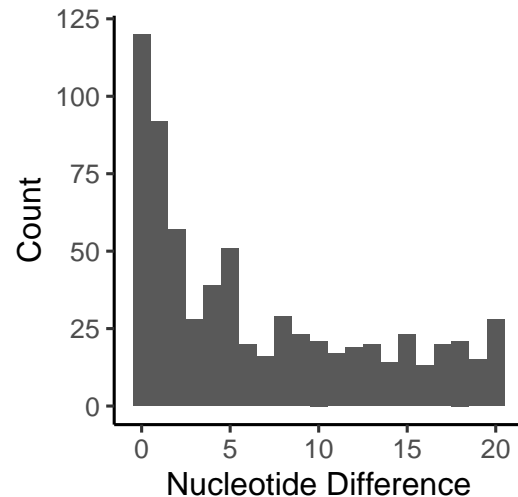
IGHV3-20*01

11 sequences assigned
1 (9.1%) exact matches, in which:
1 unique CDR3
1 unique J



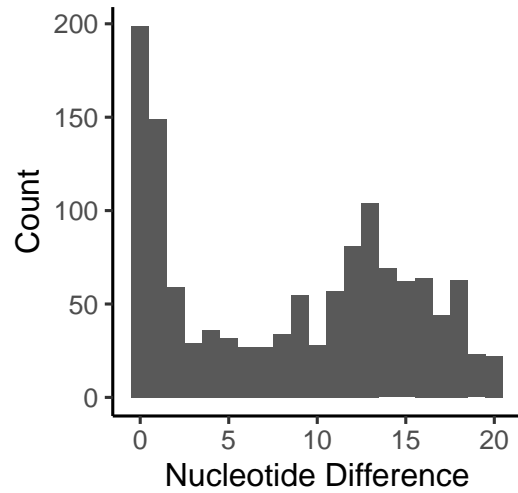
IGHV3-30-3*01

1287 sequences assigned
120 (9.3%) exact matches, in which:
116 unique CDR3
5 unique J



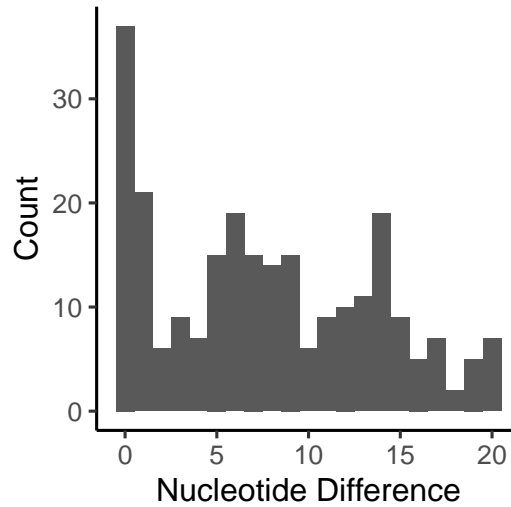
IGHV3–33*01

1690 sequences assigned
199 (11.8%) exact matches, in which:
187 unique CDR3
6 unique J



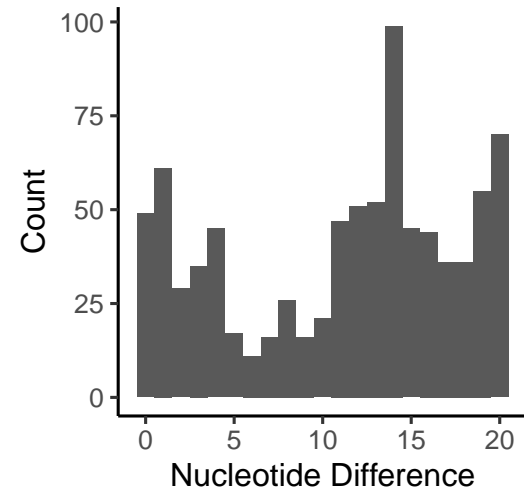
IGHV3–48*03

336 sequences assigned
37 (11%) exact matches, in which:
37 unique CDR3
5 unique J



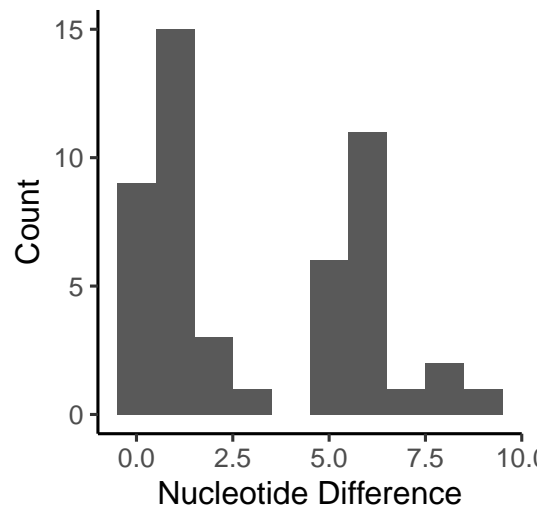
IGHV3–53*01

1178 sequences assigned
49 (4.2%) exact matches, in which:
46 unique CDR3
5 unique J



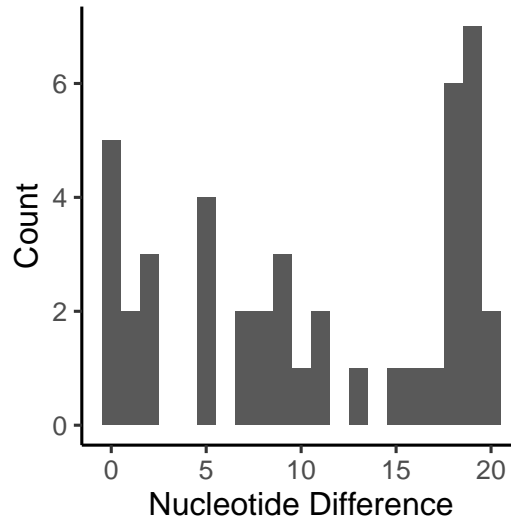
IGHV3–43*01

69 sequences assigned
9 (13%) exact matches, in which:
4 unique CDR3
2 unique J



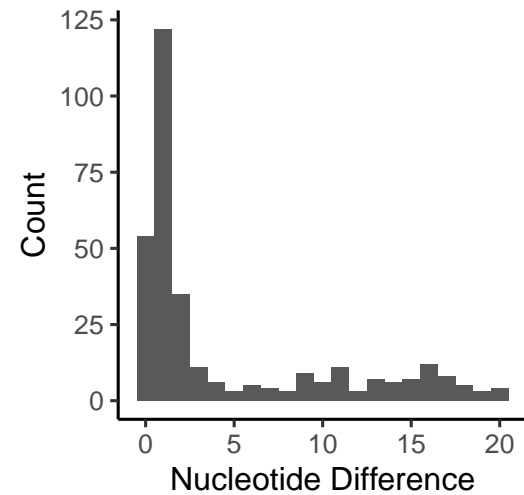
IGHV3–49*04

52 sequences assigned
5 (9.6%) exact matches, in which:
5 unique CDR3
3 unique J



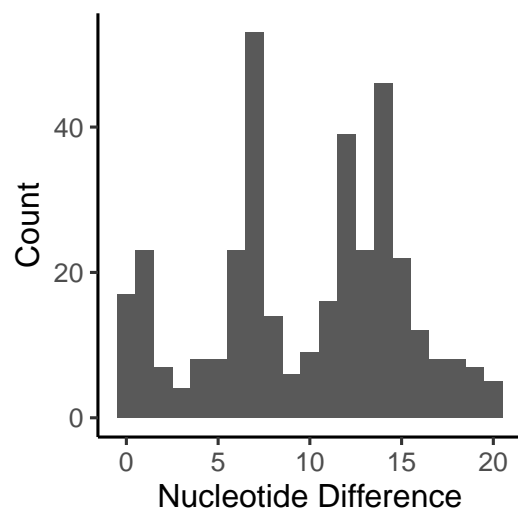
IGHV3–53*02

439 sequences assigned
54 (12.3%) exact matches, in which:
37 unique CDR3
5 unique J



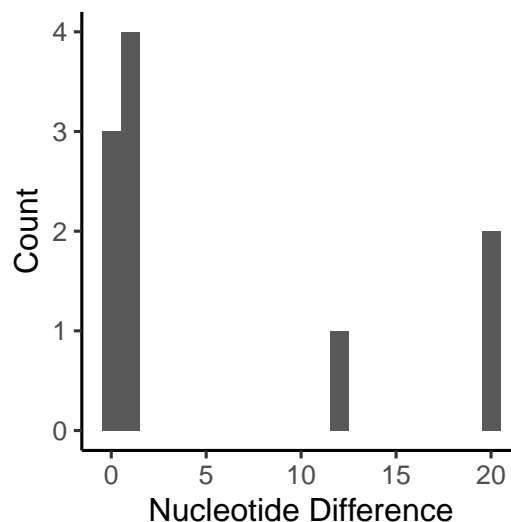
IGHV3–48*02

552 sequences assigned
17 (3.1%) exact matches, in which:
16 unique CDR3
4 unique J



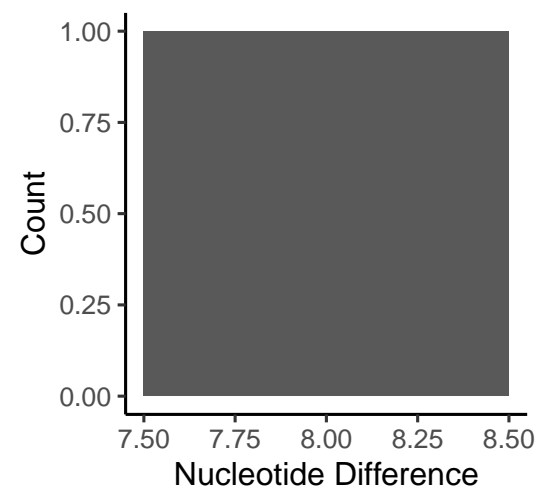
IGHV3–49*05

45 sequences assigned
3 (6.7%) exact matches, in which:
3 unique CDR3
2 unique J



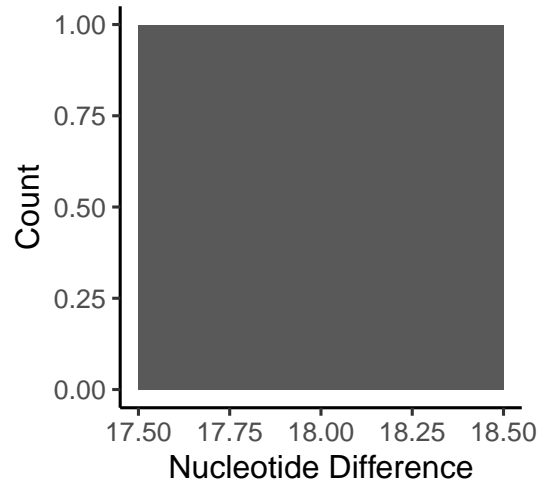
IGHV3–64*02

2 sequences assigned
No exact matches.



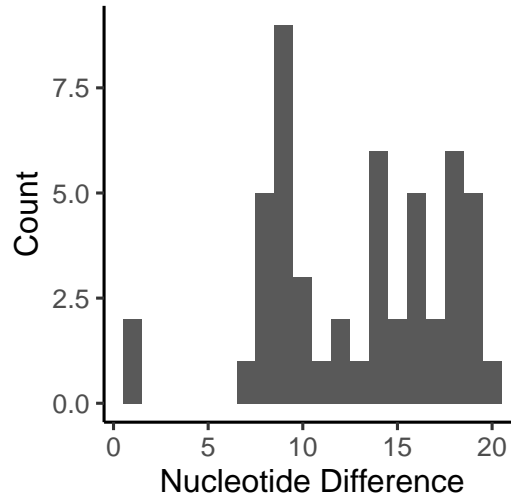
IGHV3-66*01

3 sequences assigned
No exact matches.



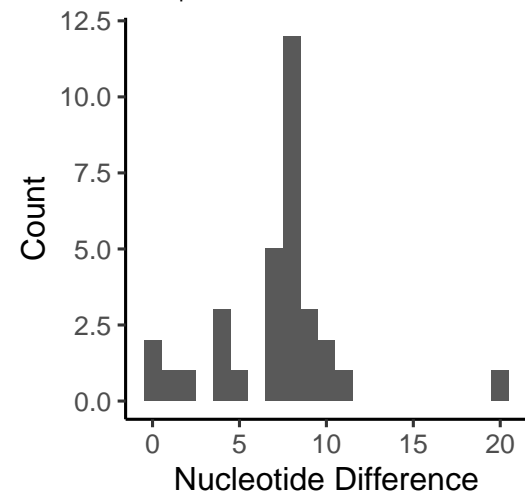
IGHV3-72*01

88 sequences assigned
No exact matches.



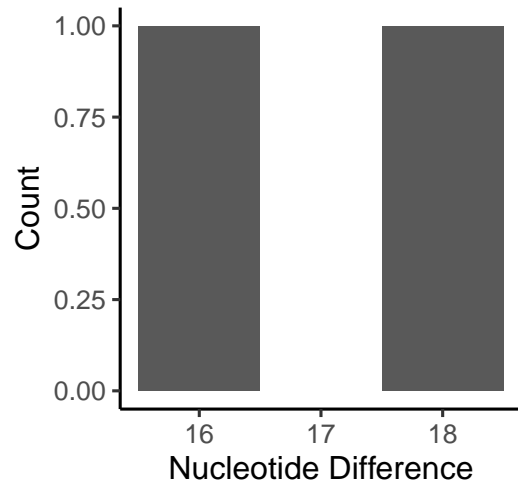
IGHV3-43D*04

35 sequences assigned
2 (5.7%) exact matches, in which:
2 unique CDR3
2 unique J



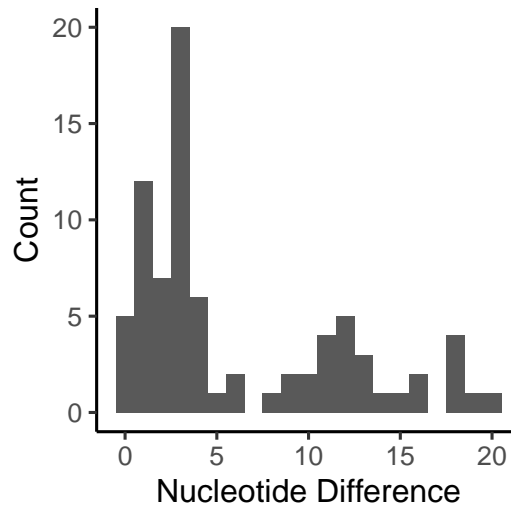
IGHV3-66*04

2 sequences assigned
No exact matches.



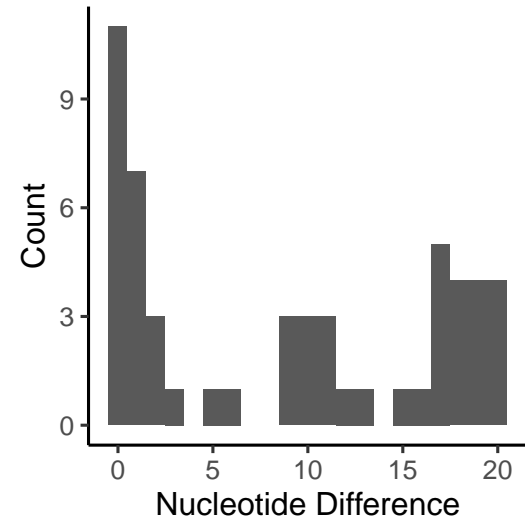
IGHV3-73*02

91 sequences assigned
5 (5.5%) exact matches, in which:
5 unique CDR3
4 unique J



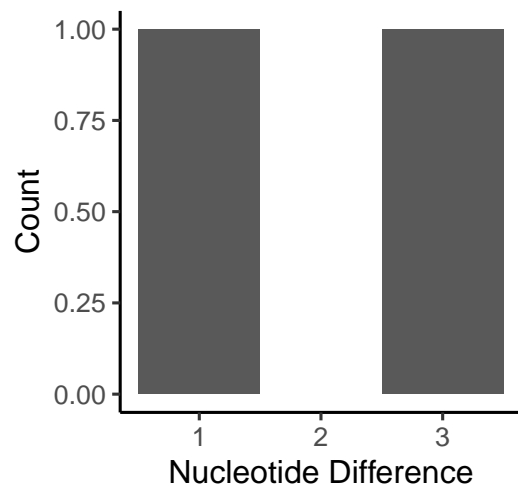
IGHV3-64D*06

127 sequences assigned
11 (8.7%) exact matches, in which:
11 unique CDR3
4 unique J



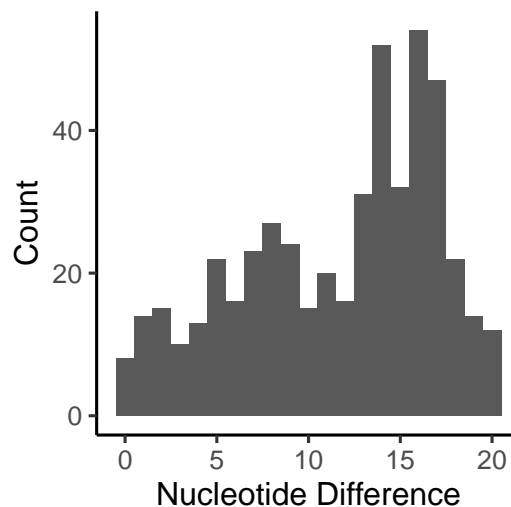
IGHV3-69-1*01

2 sequences assigned
No exact matches.



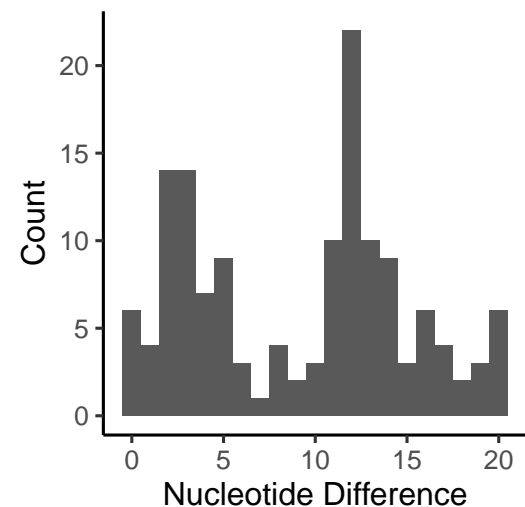
IGHV3-74*01

700 sequences assigned
8 (1.1%) exact matches, in which:
8 unique CDR3
3 unique J



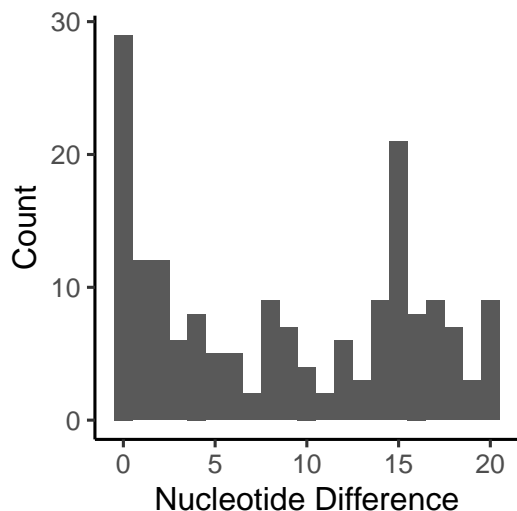
IGHV4-4*02

237 sequences assigned
6 (2.5%) exact matches, in which:
6 unique CDR3
3 unique J



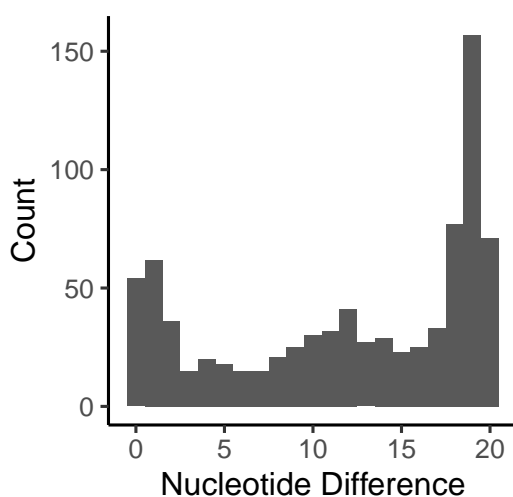
IGHV4-4*07

378 sequences assigned
29 (7.7%) exact matches, in which:
28 unique CDR3
5 unique J



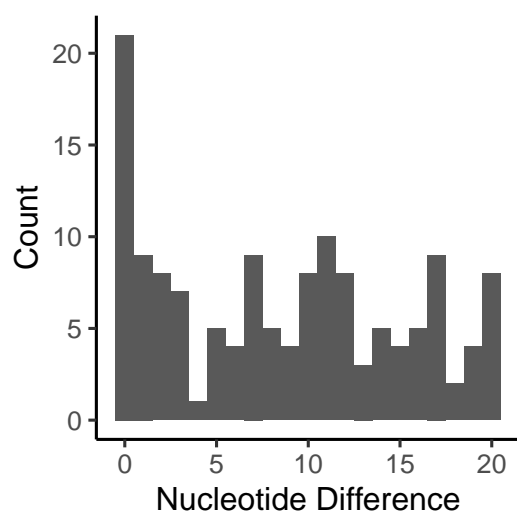
IGHV4-31*03

1029 sequences assigned
54 (5.2%) exact matches, in which:
46 unique CDR3
5 unique J



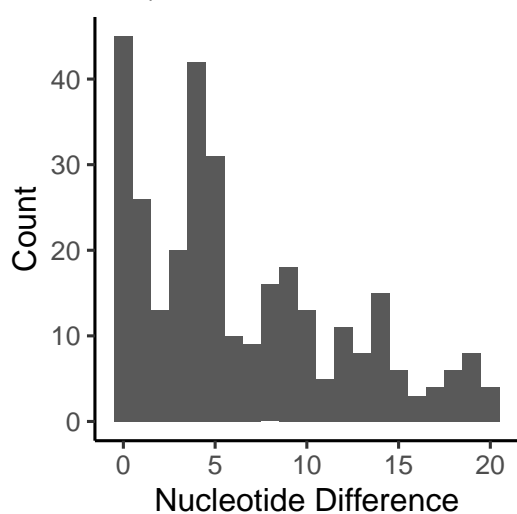
IGHV4-38-2*01

316 sequences assigned
21 (6.6%) exact matches, in which:
21 unique CDR3
4 unique J



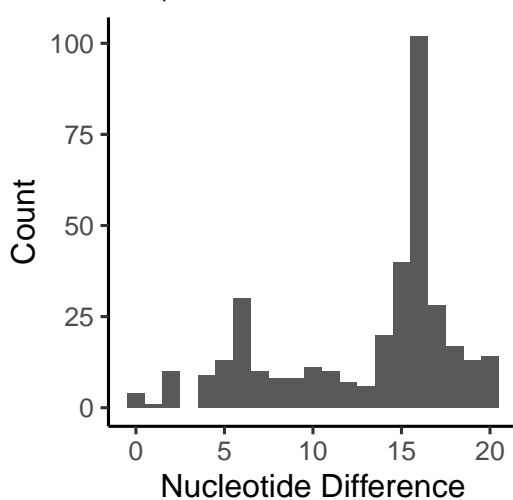
IGHV4-30-4*01

421 sequences assigned
45 (10.7%) exact matches, in which:
39 unique CDR3
4 unique J



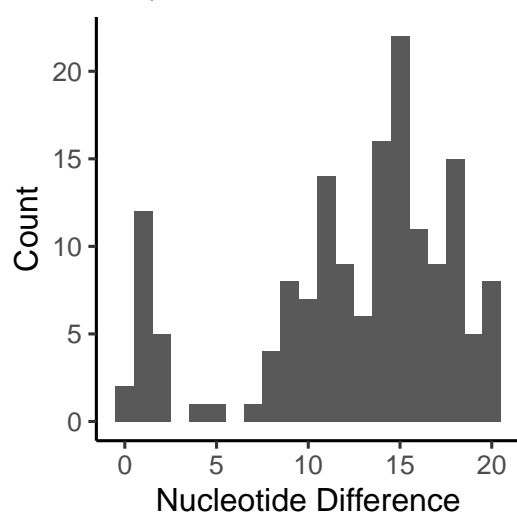
IGHV4-34*01

426 sequences assigned
4 (0.9%) exact matches, in which:
4 unique CDR3
3 unique J



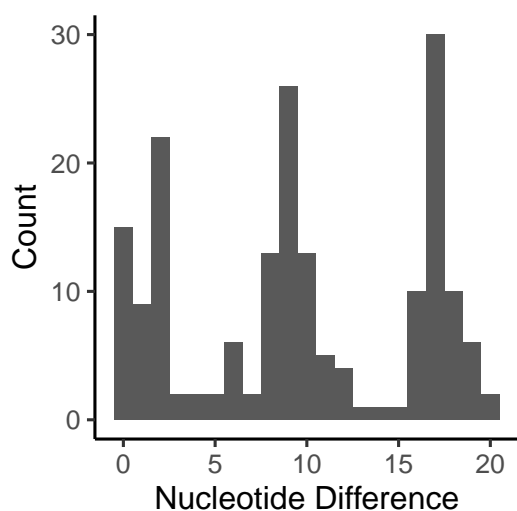
IGHV4-38-2*02

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



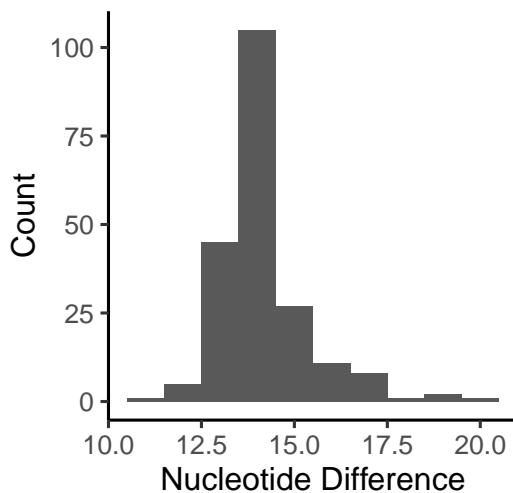
IGHV4-30-2*01

313 sequences assigned
15 (4.8%) exact matches, in which:
15 unique CDR3
4 unique J



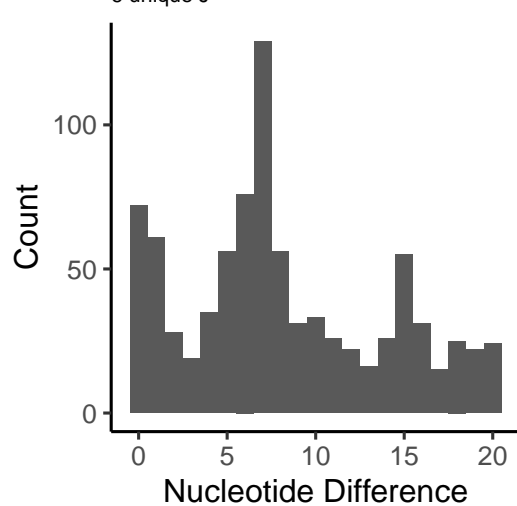
IGHV4-34*02

630 sequences assigned
No exact matches.



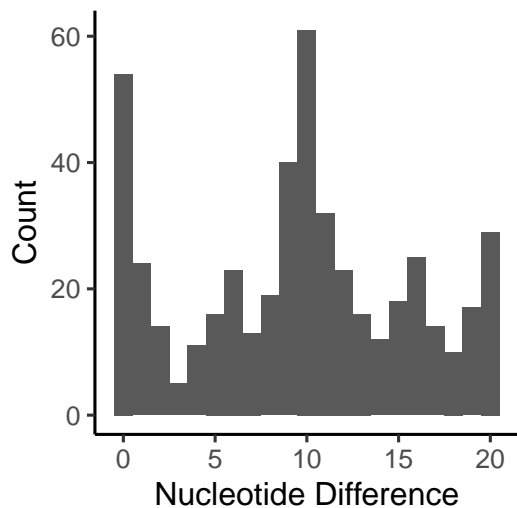
IGHV4-39*01

1196 sequences assigned
72 (6%) exact matches, in which:
71 unique CDR3
6 unique J



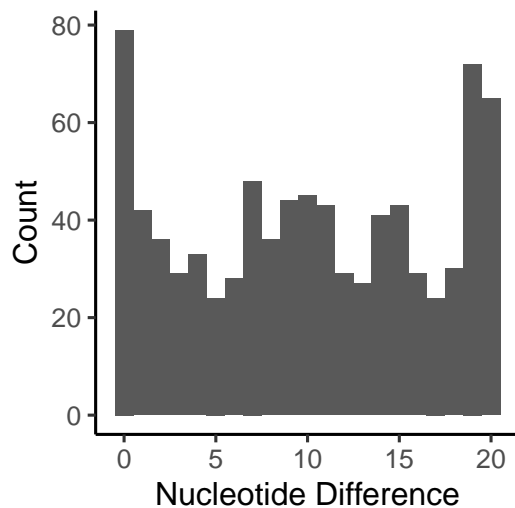
IGHV4–59*01

877 sequences assigned
54 (6.2%) exact matches, in which:
52 unique CDR3
5 unique J



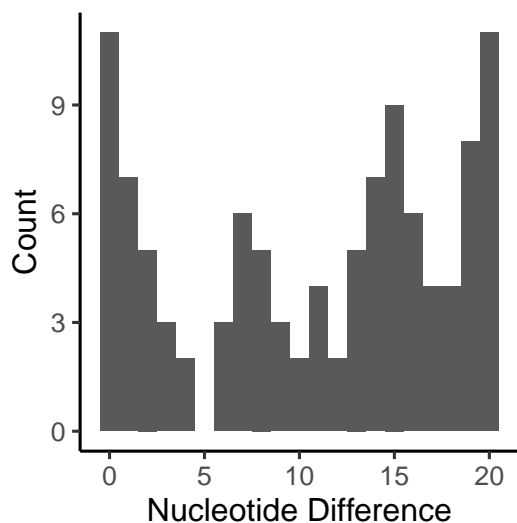
IGHV5–51*01

1093 sequences assigned
79 (7.2%) exact matches, in which:
77 unique CDR3
4 unique J



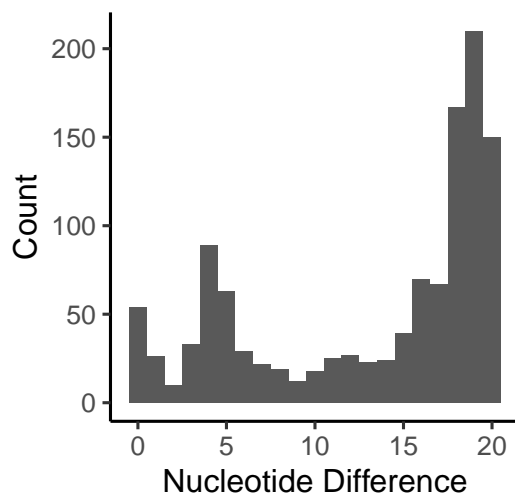
IGHV4–61*01

160 sequences assigned
11 (6.9%) exact matches, in which:
11 unique CDR3
4 unique J



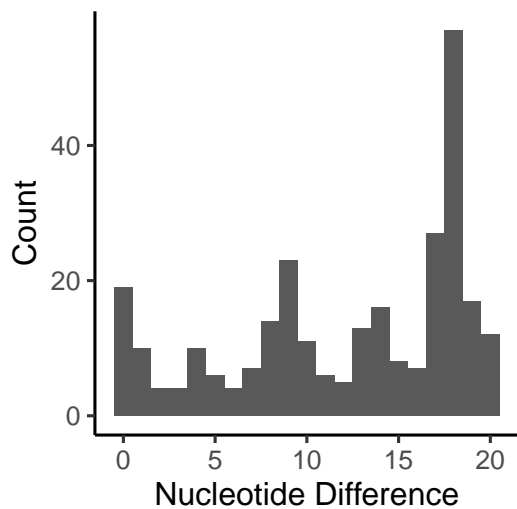
IGHV6–1*01

1495 sequences assigned
54 (3.6%) exact matches, in which:
53 unique CDR3
5 unique J



IGHV5–10–1*03

410 sequences assigned
19 (4.6%) exact matches, in which:
19 unique CDR3
4 unique J





Warning – no inferred sequences found.