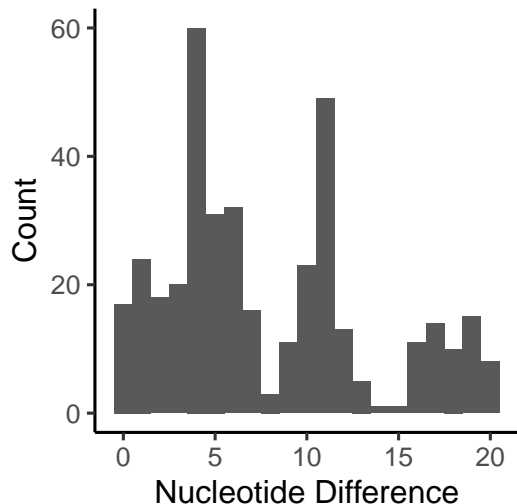


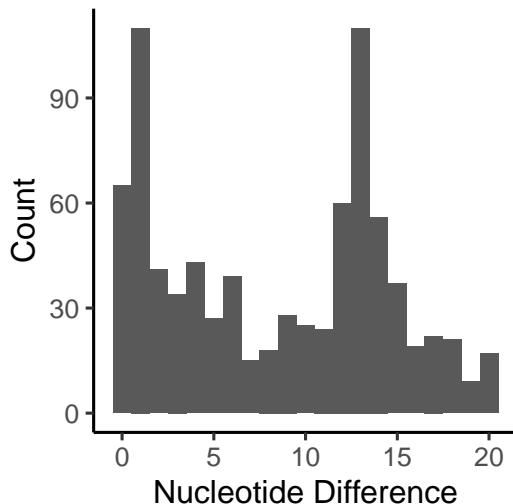
IGHV1-2*04

421 sequences assigned
17 (4%) exact matches, in which:
11 unique CDR3
4 unique J



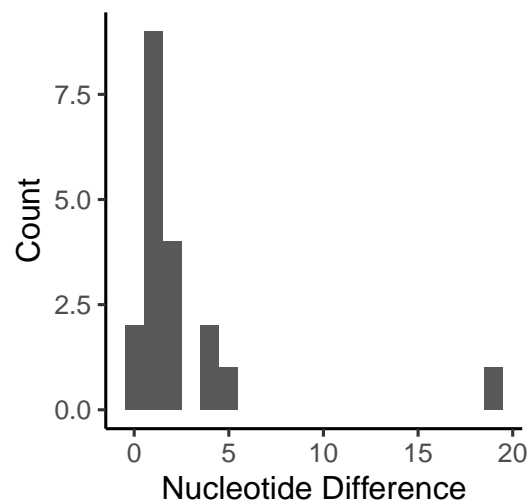
IGHV1-8*01

933 sequences assigned
65 (7%) exact matches, in which:
48 unique CDR3
5 unique J



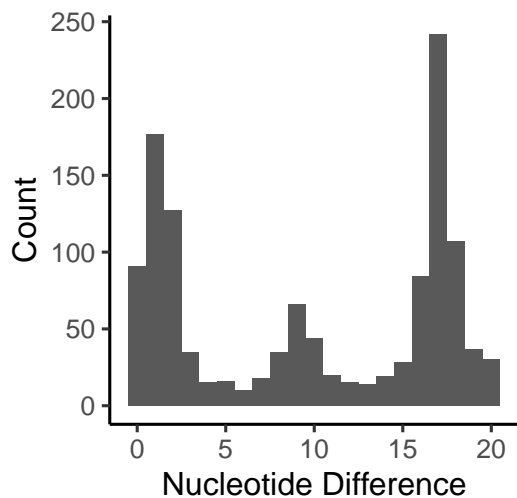
IGHV1-45*02

19 sequences assigned
2 (10.5%) exact matches, in which:
1 unique CDR3
1 unique J



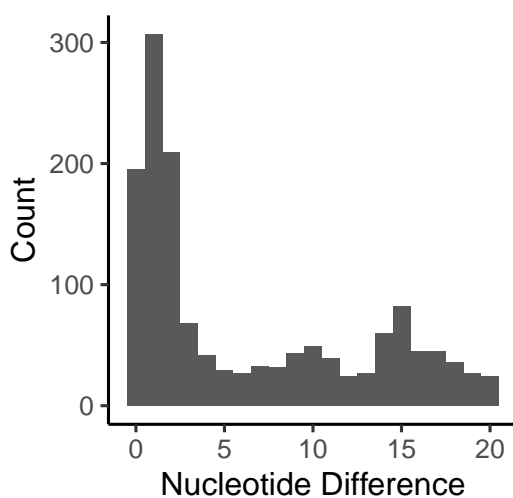
IGHV1-3*01

1544 sequences assigned
91 (5.9%) exact matches, in which:
63 unique CDR3
5 unique J



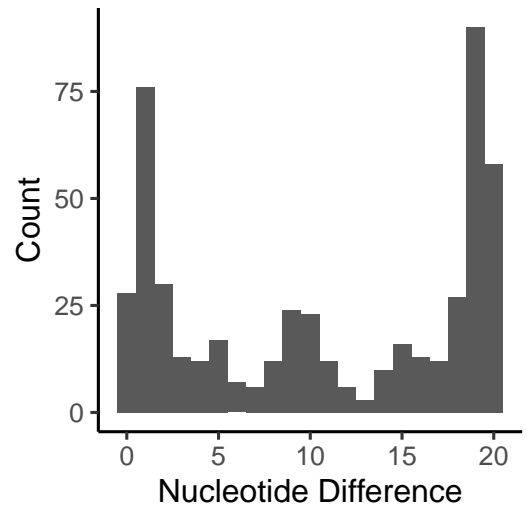
IGHV1-18*01

1993 sequences assigned
195 (9.8%) exact matches, in which:
111 unique CDR3
6 unique J



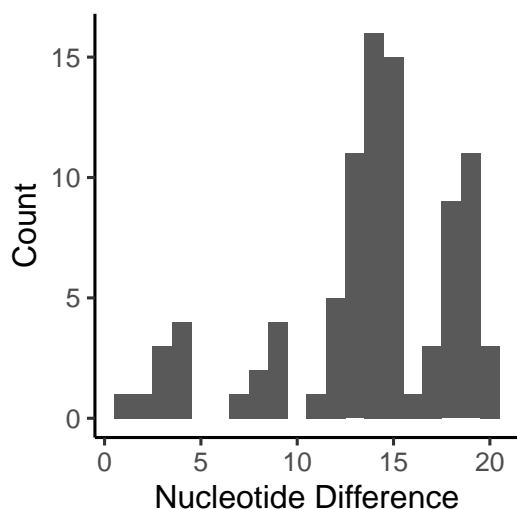
IGHV1-46*01

775 sequences assigned
28 (3.6%) exact matches, in which:
19 unique CDR3
5 unique J



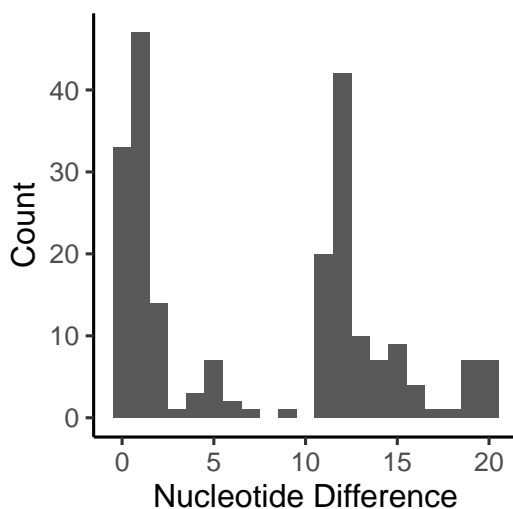
IGHV1-3*04

148 sequences assigned
No exact matches.



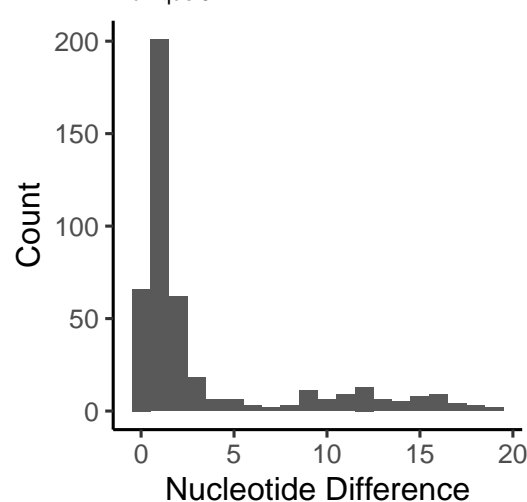
IGHV1-24*01

223 sequences assigned
33 (14.8%) exact matches, in which:
24 unique CDR3
4 unique J



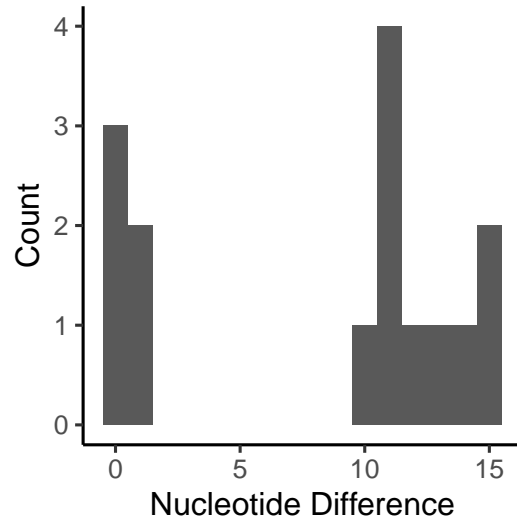
IGHV1-46*03

515 sequences assigned
66 (12.8%) exact matches, in which:
40 unique CDR3
4 unique J



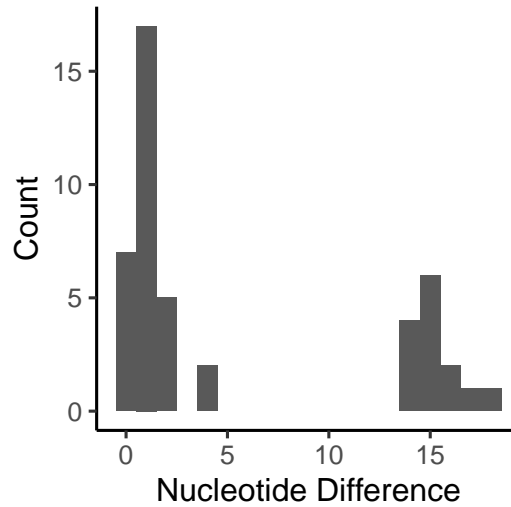
IGHV1-58*01

16 sequences assigned
3 (18.8%) exact matches, in which:
2 unique CDR3
1 unique J



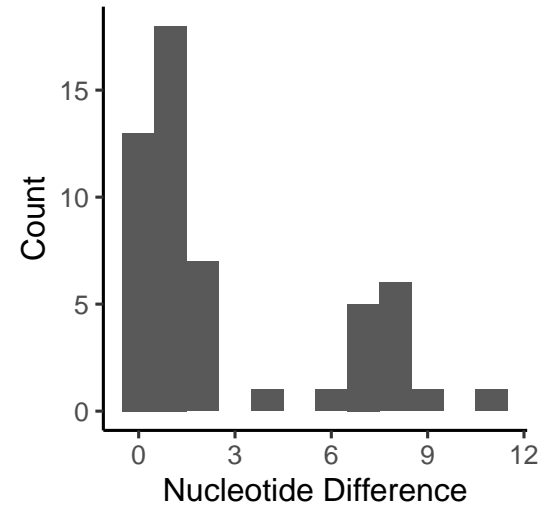
IGHV1-69-2*01

55 sequences assigned
7 (12.7%) exact matches, in which:
5 unique CDR3
2 unique J



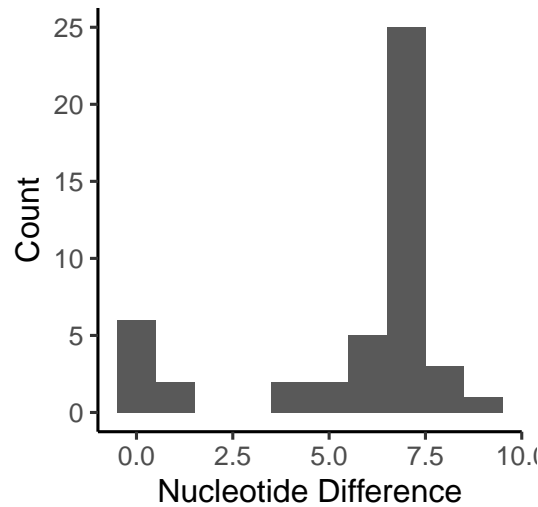
IGHV2-26*01

54 sequences assigned
13 (24.1%) exact matches, in which:
5 unique CDR3
3 unique J



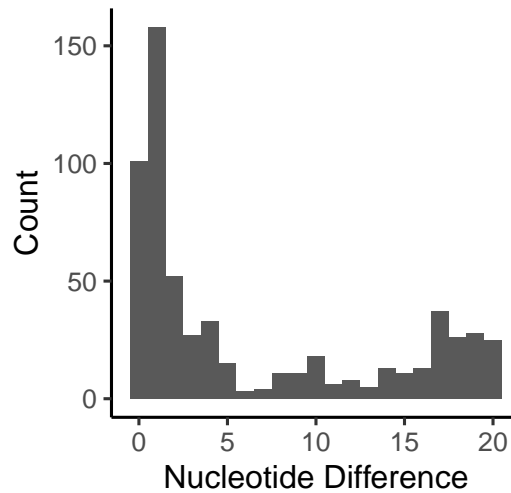
IGHV1-58*02

54 sequences assigned
6 (11.1%) exact matches, in which:
4 unique CDR3
1 unique J



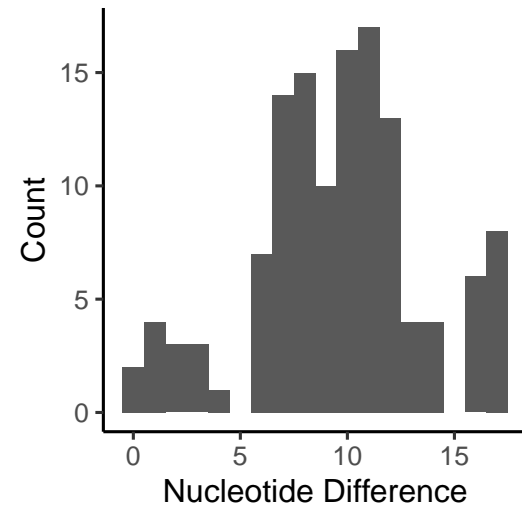
IGHV1-69*06

940 sequences assigned
101 (10.7%) exact matches, in which:
69 unique CDR3
5 unique J



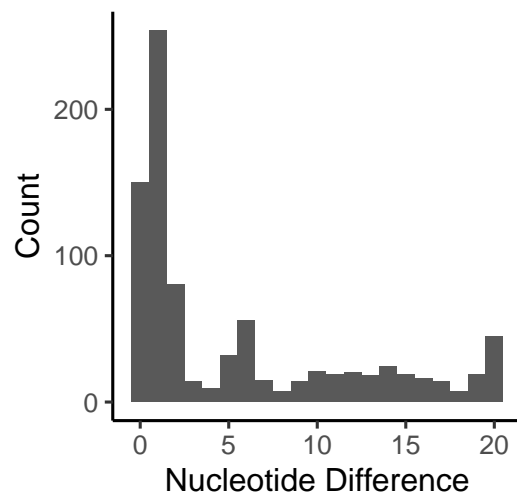
IGHV2-70*01

127 sequences assigned
2 (1.6%) exact matches, in which:
2 unique CDR3
1 unique J



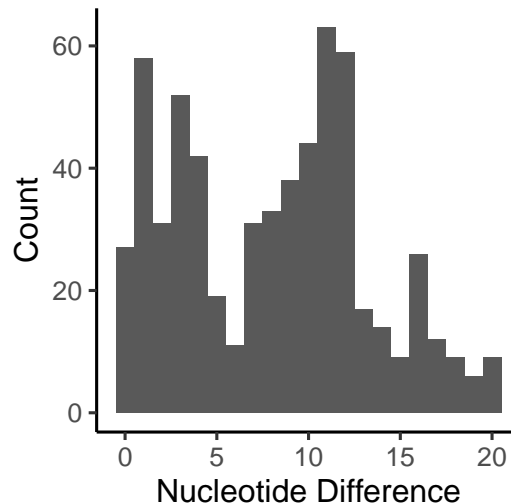
IGHV1-69*01

1252 sequences assigned
150 (12%) exact matches, in which:
112 unique CDR3
5 unique J



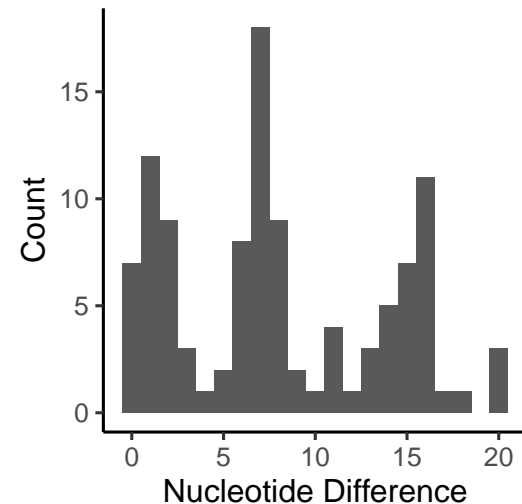
IGHV2-5*02

678 sequences assigned
27 (4%) exact matches, in which:
21 unique CDR3
5 unique J



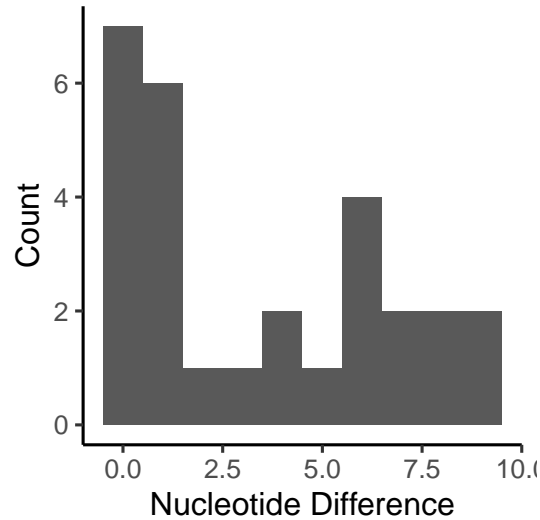
IGHV2-70*04

109 sequences assigned
7 (6.4%) exact matches, in which:
7 unique CDR3
2 unique J



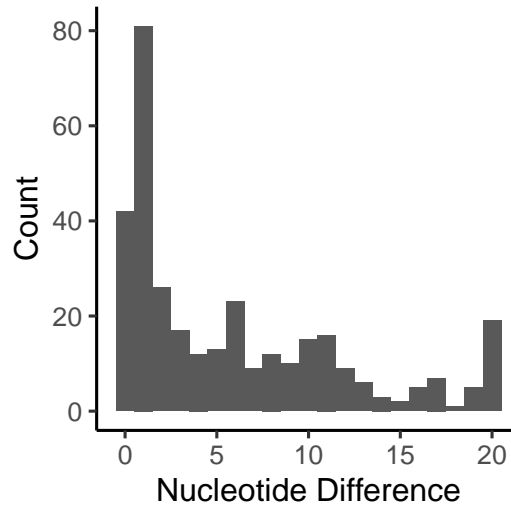
IGHV2-70*15

28 sequences assigned
7 (25%) exact matches, in which:
7 unique CDR3
2 unique J



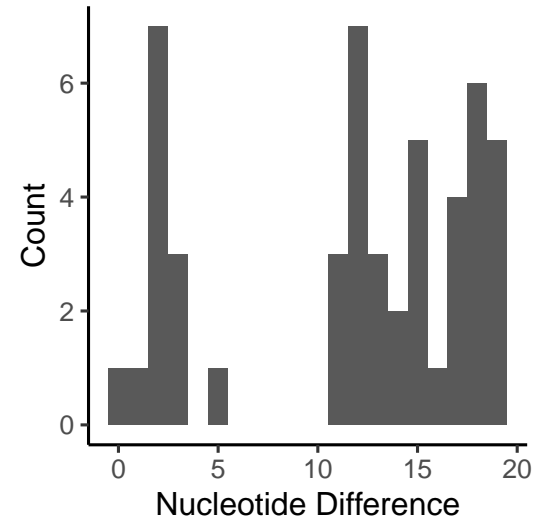
IGHV3-9*01

450 sequences assigned
42 (9.3%) exact matches, in which:
36 unique CDR3
6 unique J



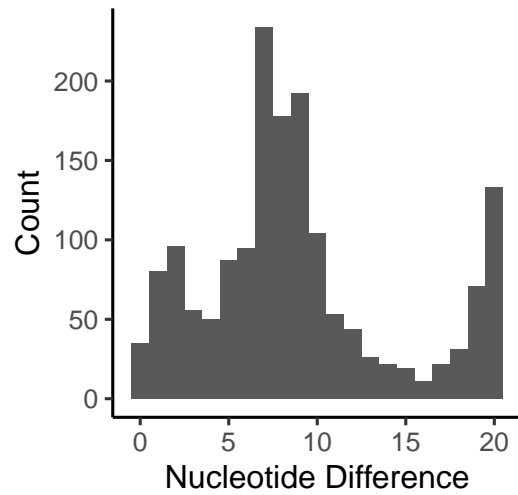
IGHV3-13*01

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



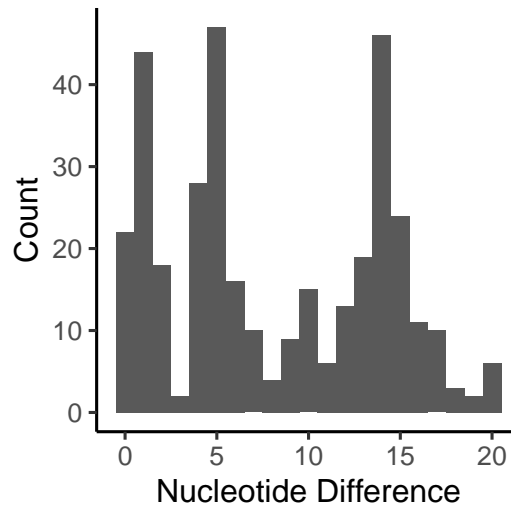
IGHV3-7*01

2085 sequences assigned
35 (1.7%) exact matches, in which:
31 unique CDR3
4 unique J



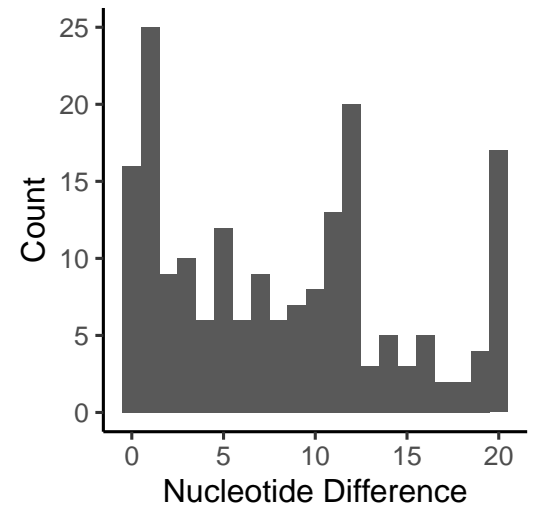
IGHV3-11*01

419 sequences assigned
22 (5.3%) exact matches, in which:
18 unique CDR3
3 unique J



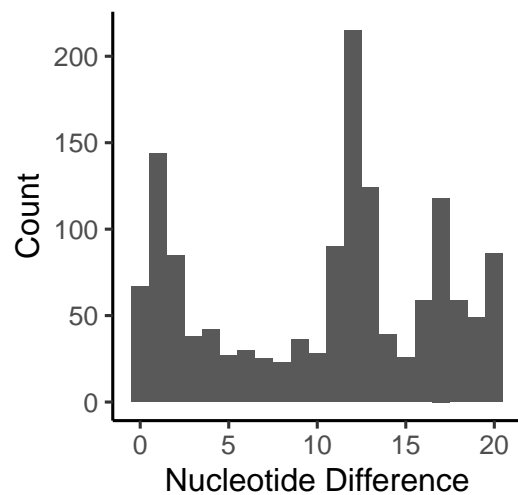
IGHV3-15*01

303 sequences assigned
16 (5.3%) exact matches, in which:
15 unique CDR3
3 unique J



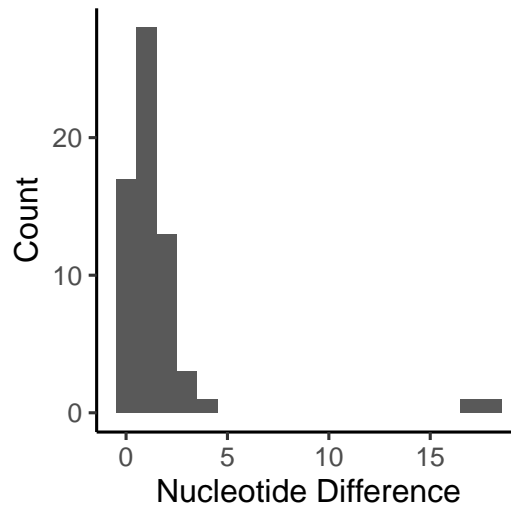
IGHV3-7*03

1606 sequences assigned
67 (4.2%) exact matches, in which:
47 unique CDR3
5 unique J



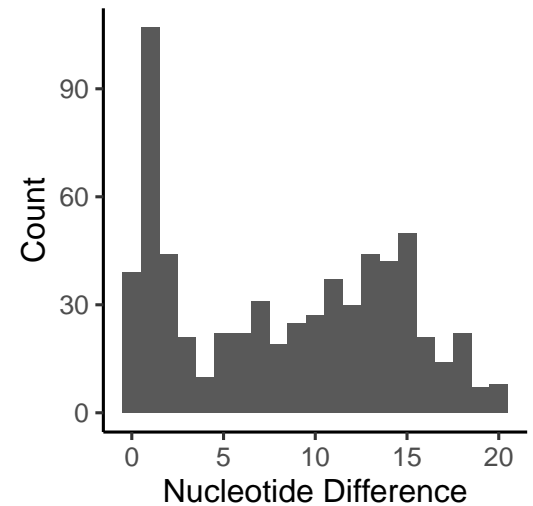
IGHV3-11*06

67 sequences assigned
17 (25.4%) exact matches, in which:
12 unique CDR3
3 unique J



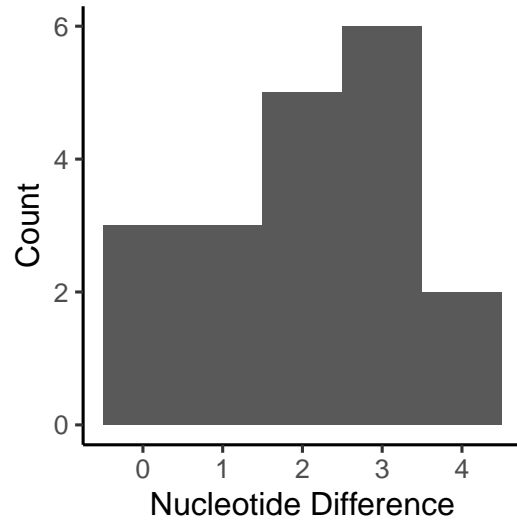
IGHV3-15*07

742 sequences assigned
39 (5.3%) exact matches, in which:
31 unique CDR3
6 unique J



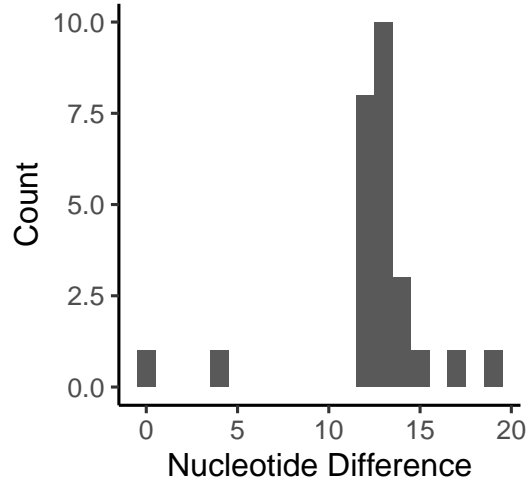
IGHV3-20*01

19 sequences assigned
3 (15.8%) exact matches, in which:
2 unique CDR3
2 unique J



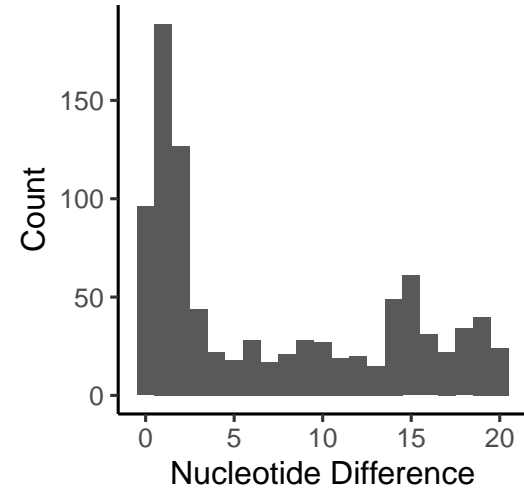
IGHV3-30-3*01

46 sequences assigned
1 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



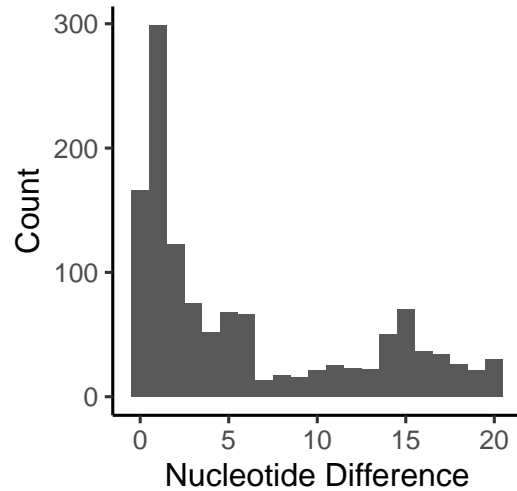
IGHV3-30*18

1035 sequences assigned
96 (9.3%) exact matches, in which:
61 unique CDR3
5 unique J



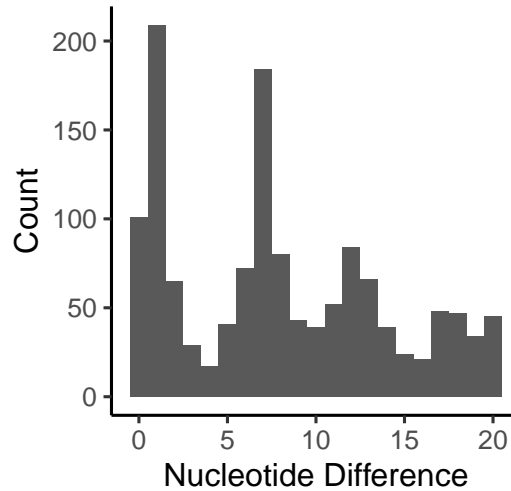
IGHV3-21*01

1310 sequences assigned
166 (12.7%) exact matches, in which:
98 unique CDR3
5 unique J



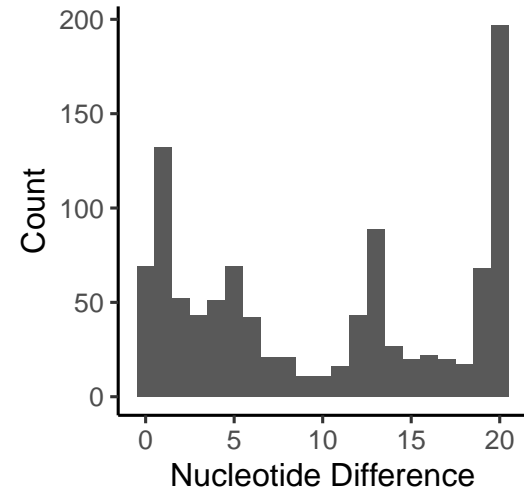
IGHV3-30*02

1687 sequences assigned
101 (6%) exact matches, in which:
67 unique CDR3
5 unique J



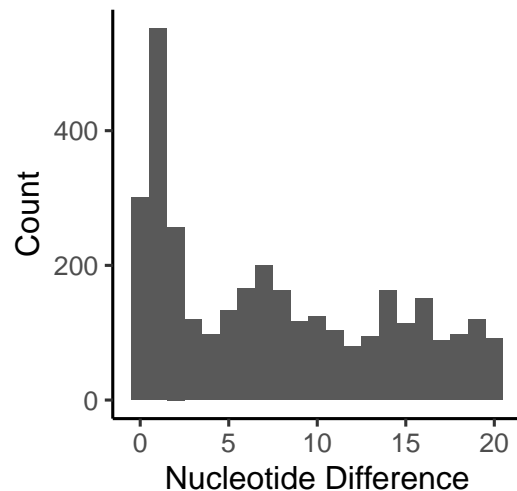
IGHV3-33*01

1227 sequences assigned
69 (5.6%) exact matches, in which:
48 unique CDR3
5 unique J



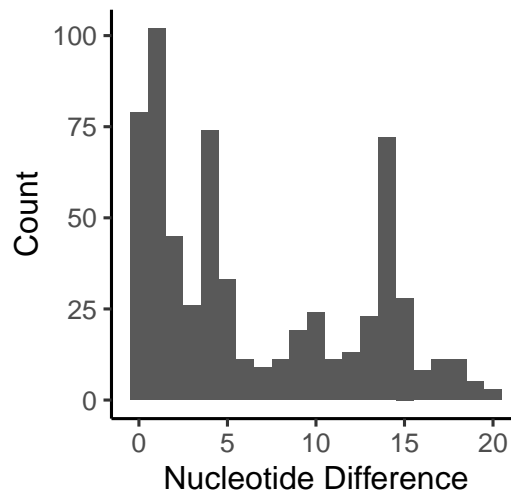
IGHV3-23*01

4441 sequences assigned
301 (6.8%) exact matches, in which:
239 unique CDR3
5 unique J



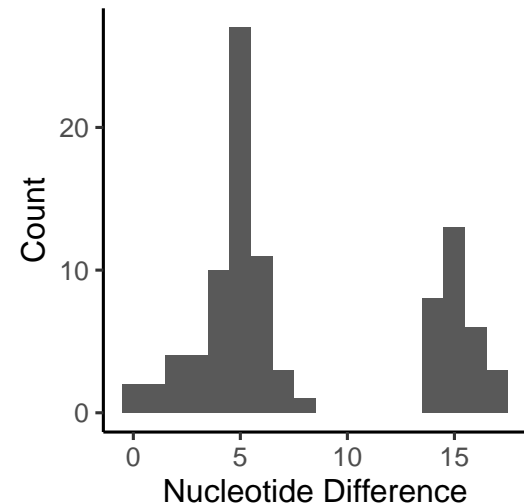
IGHV3-30*04

703 sequences assigned
79 (11.2%) exact matches, in which:
53 unique CDR3
4 unique J



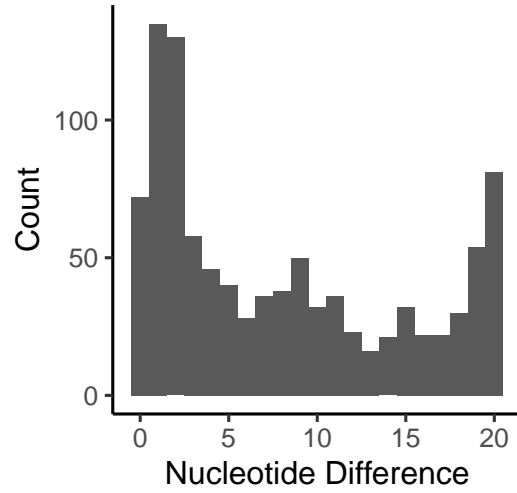
IGHV3-43*01

154 sequences assigned
2 (1.3%) exact matches, in which:
2 unique CDR3
1 unique J



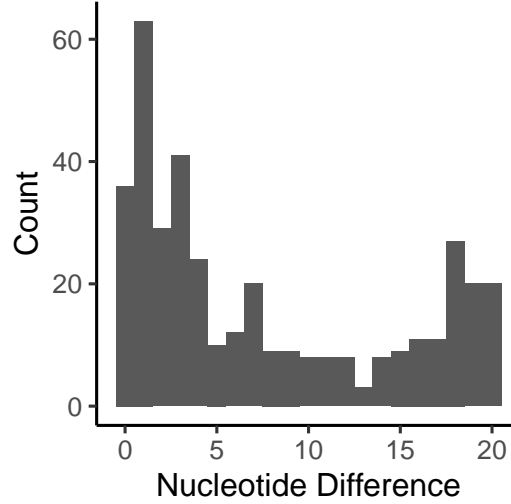
IGHV3-48*02

1155 sequences assigned
72 (6.2%) exact matches, in which:
56 unique CDR3
6 unique J



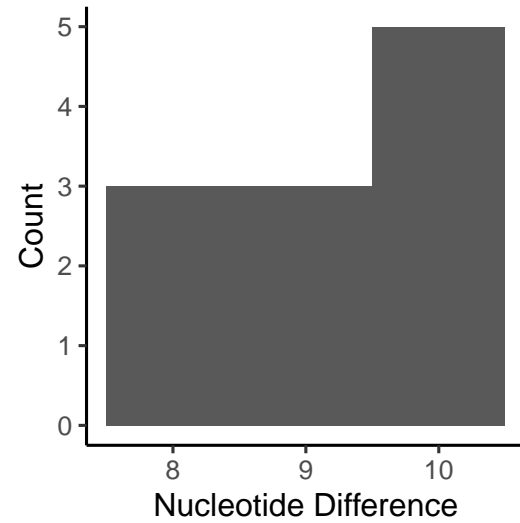
IGHV3-53*01

467 sequences assigned
36 (7.7%) exact matches, in which:
29 unique CDR3
4 unique J



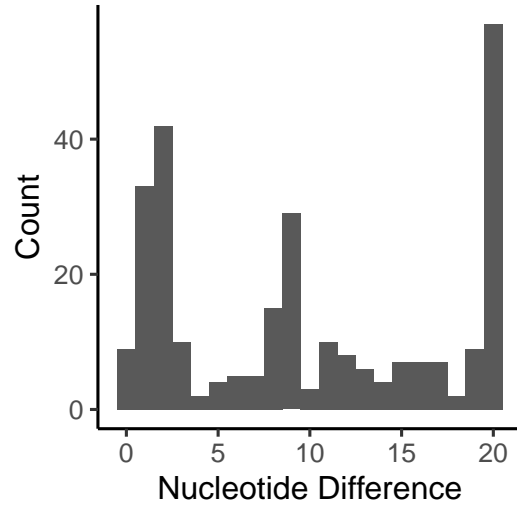
IGHV3-64*07

12 sequences assigned
No exact matches.



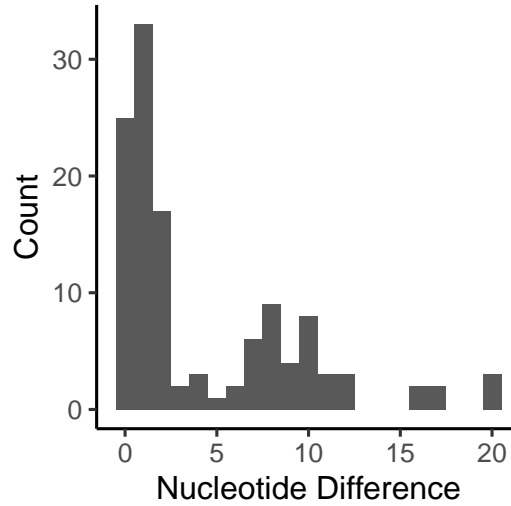
IGHV3-49*04

552 sequences assigned
9 (1.6%) exact matches, in which:
4 unique CDR3
3 unique J



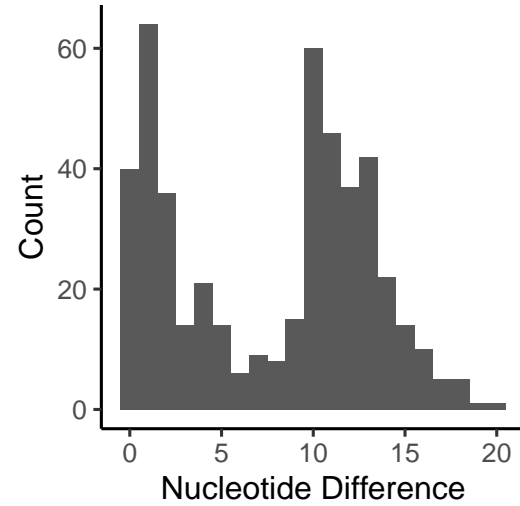
IGHV3-53*04

135 sequences assigned
25 (18.5%) exact matches, in which:
21 unique CDR3
4 unique J



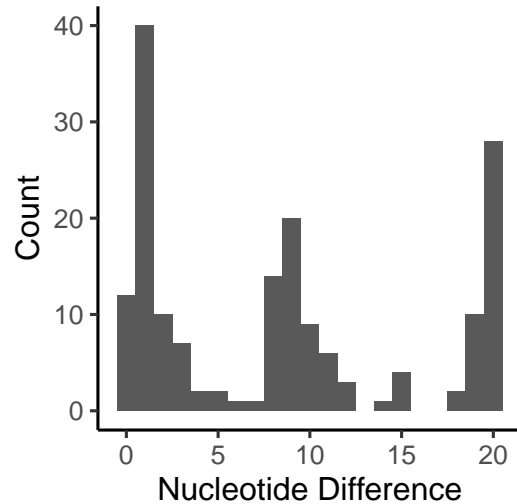
IGHV3-66*01

502 sequences assigned
40 (8%) exact matches, in which:
29 unique CDR3
5 unique J



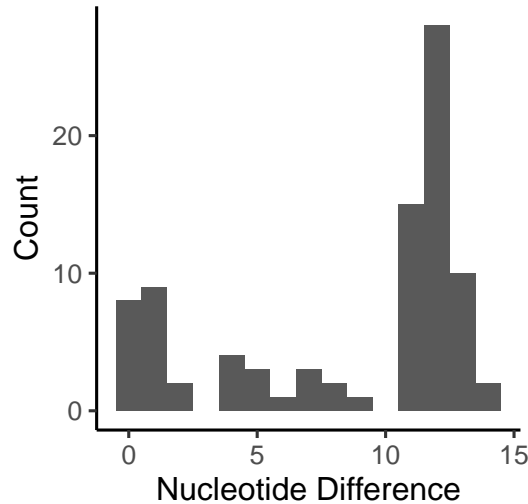
IGHV3-49*05

240 sequences assigned
12 (5%) exact matches, in which:
9 unique CDR3
2 unique J



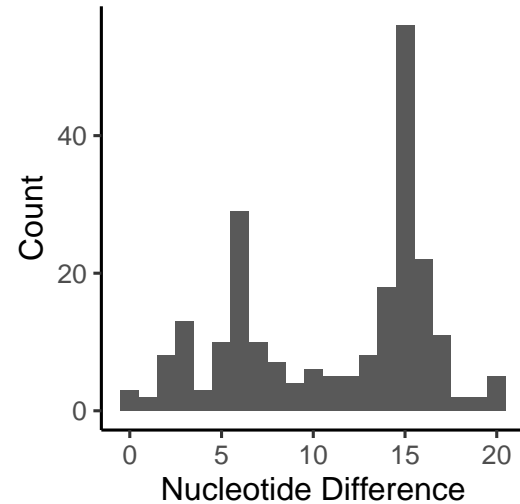
IGHV3-64*01

137 sequences assigned
8 (5.8%) exact matches, in which:
5 unique CDR3
3 unique J



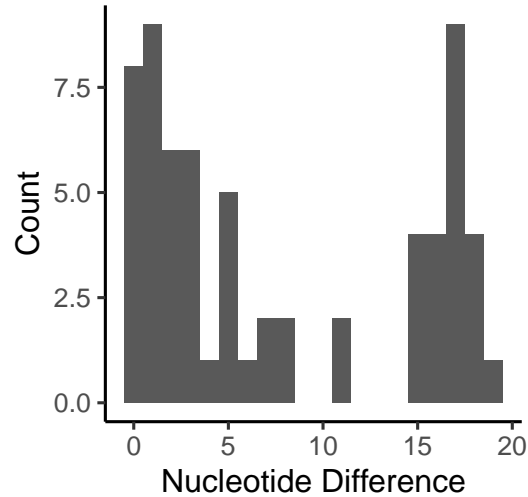
IGHV3-72*01

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



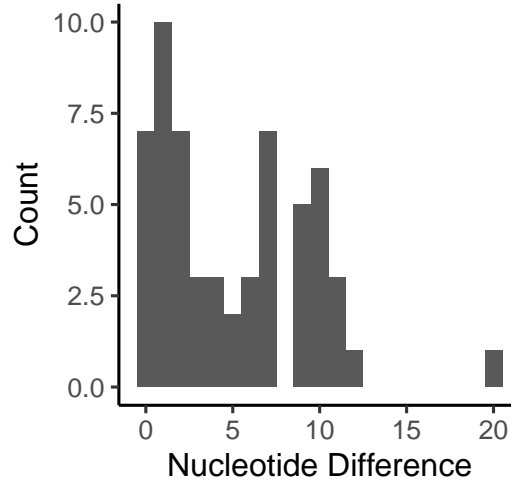
IGHV3-73*01

111 sequences assigned
8 (7.2%) exact matches, in which:
7 unique CDR3
3 unique J



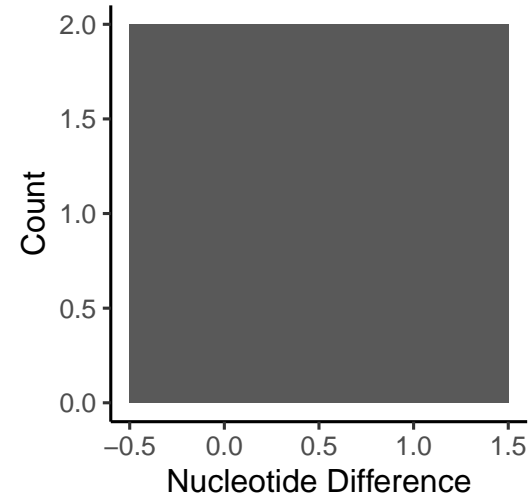
IGHV3-43D*03

73 sequences assigned
7 (9.6%) exact matches, in which:
5 unique CDR3
2 unique J



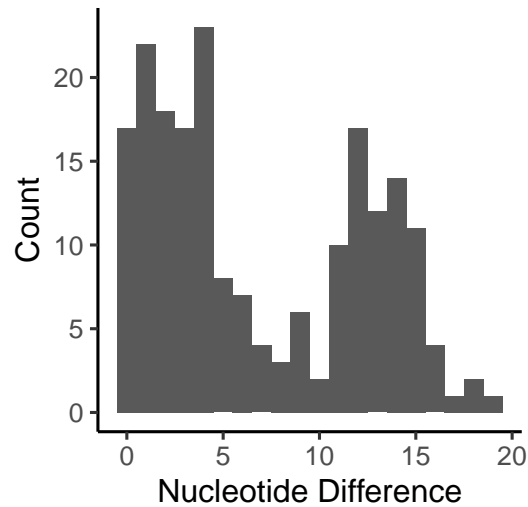
IGHV4-28*07

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



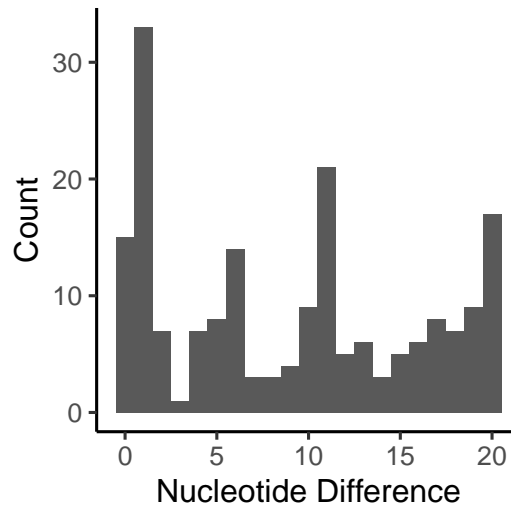
IGHV3-73*02

207 sequences assigned
17 (8.2%) exact matches, in which:
15 unique CDR3
3 unique J



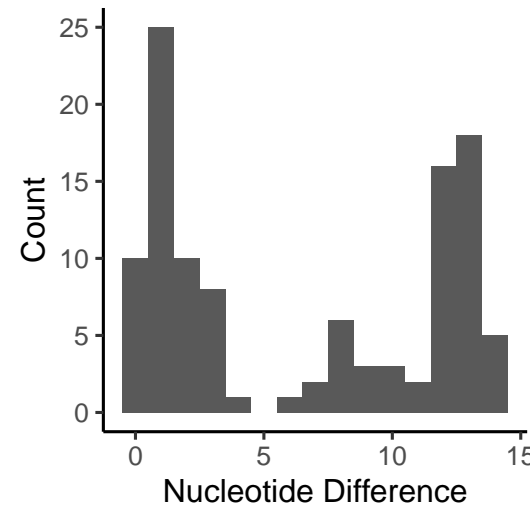
IGHV3-64D*06

278 sequences assigned
15 (5.4%) exact matches, in which:
13 unique CDR3
4 unique J



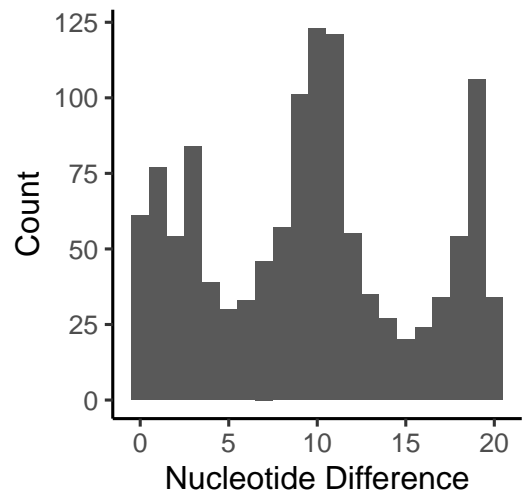
IGHV4-30-2*01

135 sequences assigned
10 (7.4%) exact matches, in which:
9 unique CDR3
4 unique J



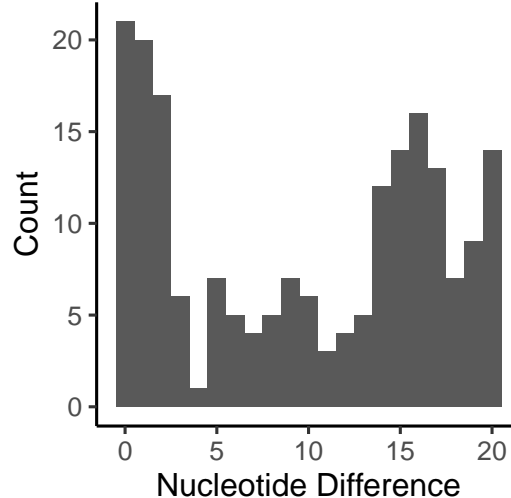
IGHV3-74*01

1316 sequences assigned
61 (4.6%) exact matches, in which:
54 unique CDR3
5 unique J



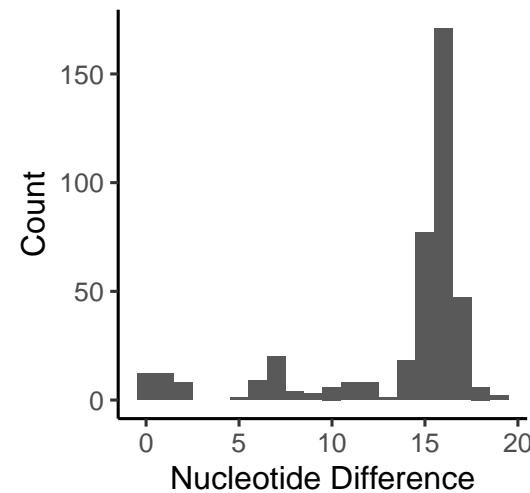
IGHV4-4*02

280 sequences assigned
21 (7.5%) exact matches, in which:
19 unique CDR3
5 unique J



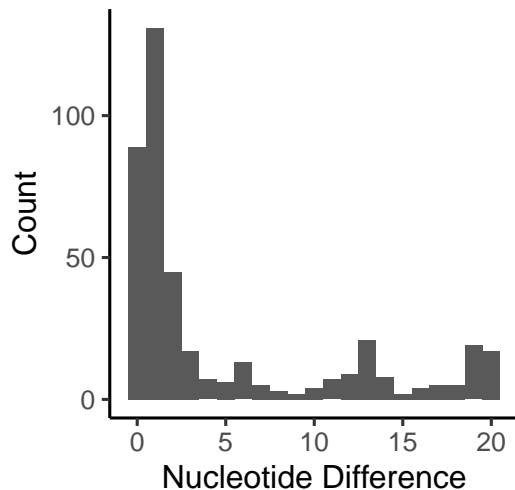
IGHV4-30-4*07

449 sequences assigned
12 (2.7%) exact matches, in which:
9 unique CDR3
4 unique J



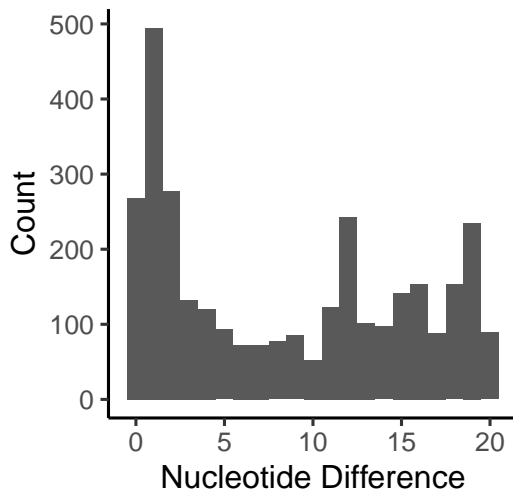
IGHV4-31*03

518 sequences assigned
89 (17.2%) exact matches, in which:
48 unique CDR3
4 unique J



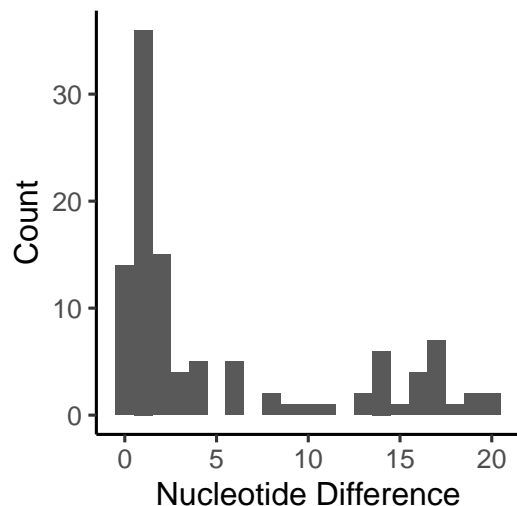
IGHV4-39*01

3792 sequences assigned
268 (7.1%) exact matches, in which:
200 unique CDR3
5 unique J



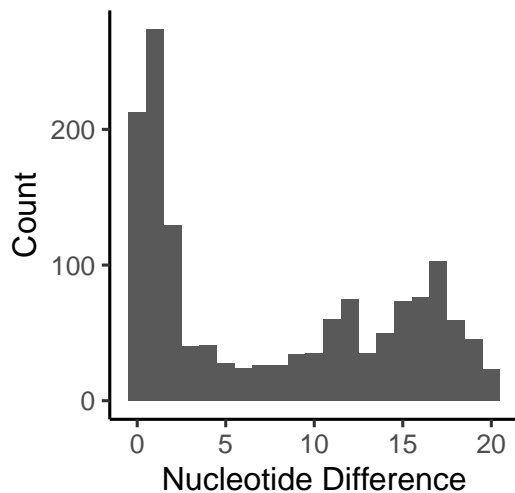
IGHV4-61*01

187 sequences assigned
14 (7.5%) exact matches, in which:
11 unique CDR3
3 unique J



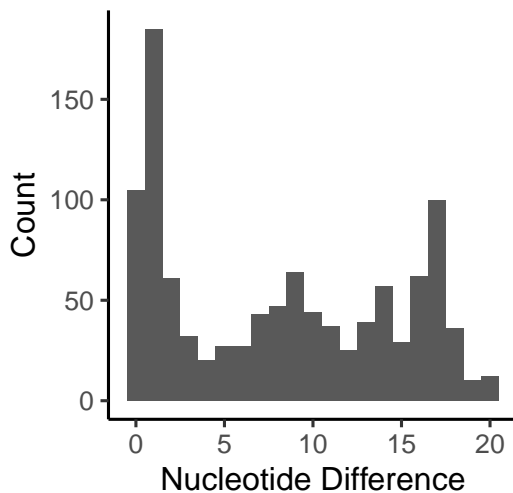
IGHV4-34*01

1975 sequences assigned
213 (10.8%) exact matches, in which:
158 unique CDR3
5 unique J



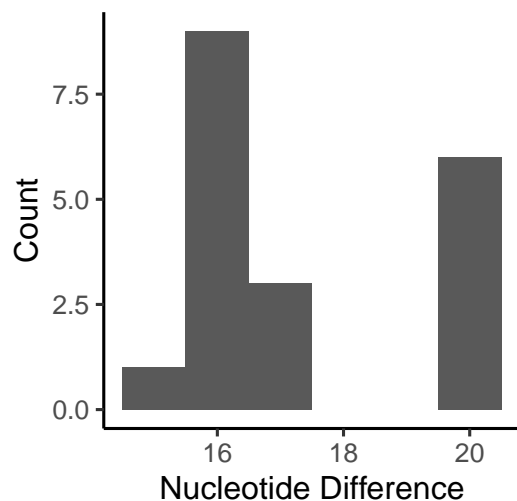
IGHV4-59*01

1259 sequences assigned
105 (8.3%) exact matches, in which:
75 unique CDR3
6 unique J



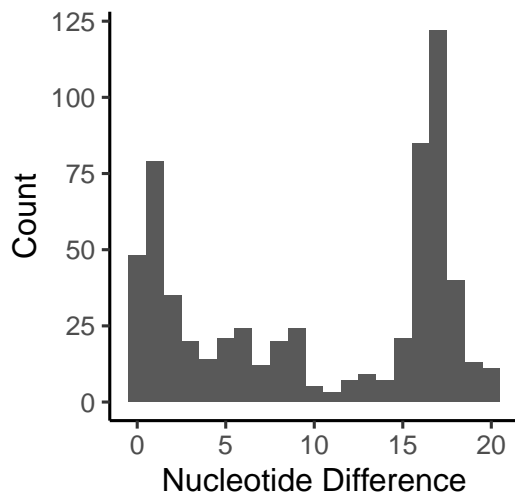
IGHV4-61*08

215 sequences assigned
No exact matches.



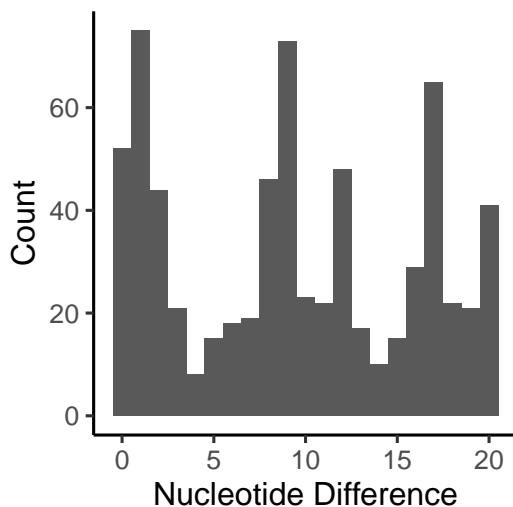
IGHV4-38-2*02

664 sequences assigned
48 (7.2%) exact matches, in which:
29 unique CDR3
5 unique J



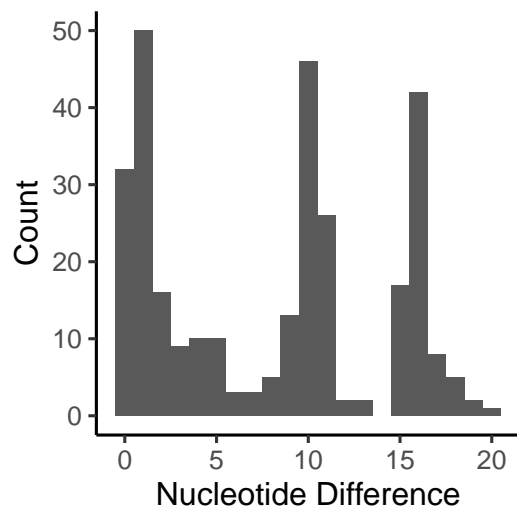
IGHV4-59*08

811 sequences assigned
52 (6.4%) exact matches, in which:
42 unique CDR3
6 unique J



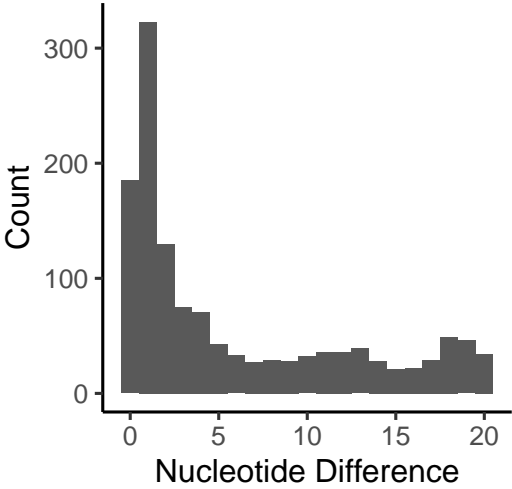
IGHV5-10-1*03

312 sequences assigned
32 (10.3%) exact matches, in which:
20 unique CDR3
4 unique J



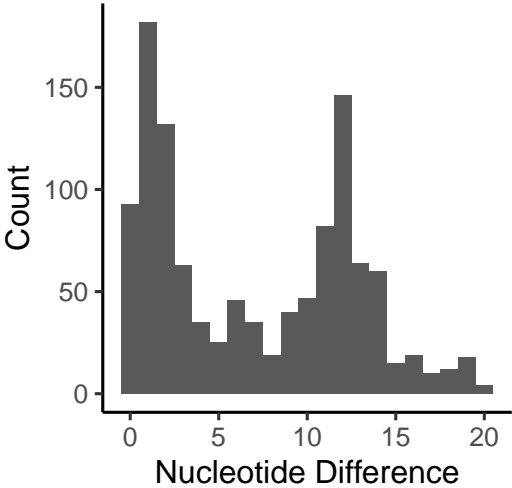
IGHV5–51*01

1527 sequences assigned
185 (12.1%) exact matches, in which:
131 unique CDR3
6 unique J



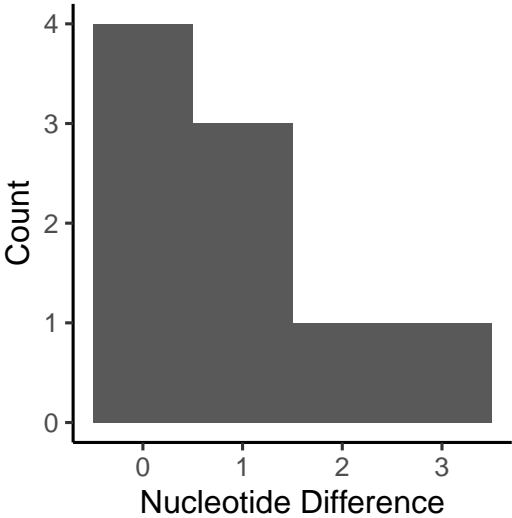
IGHV6–1*01

1538 sequences assigned
93 (6%) exact matches, in which:
57 unique CDR3
4 unique J



IGHV7–4–1*01

9 sequences assigned
4 (44.4%) exact matches, in which:
2 unique CDR3
1 unique J





Warning – no inferred sequences found.