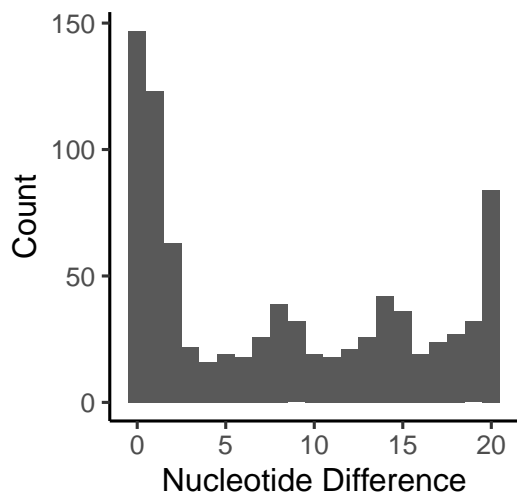


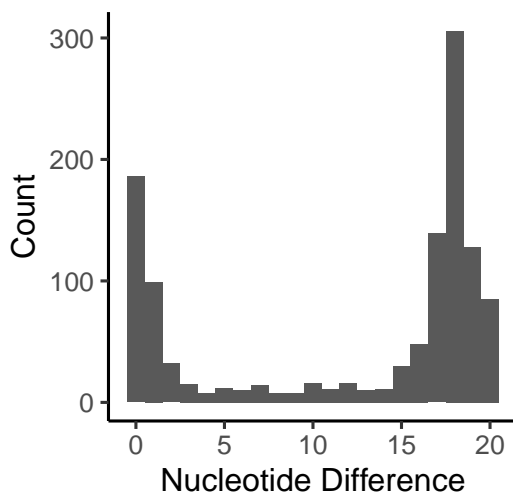
IGHV1-2*02

1411 sequences assigned
147 (10.4%) exact matches, in which:
141 unique CDR3
6 unique J



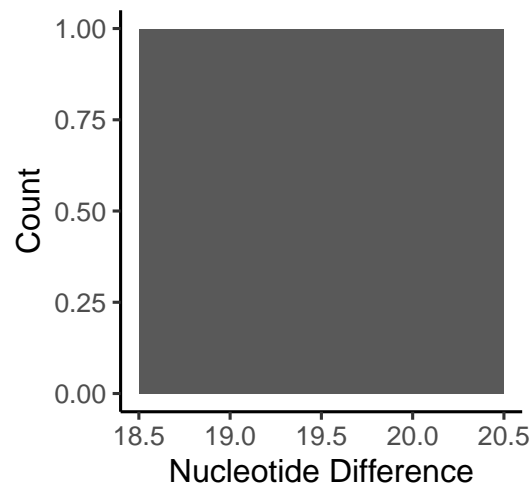
IGHV1-18*01

1612 sequences assigned
186 (11.5%) exact matches, in which:
170 unique CDR3
5 unique J



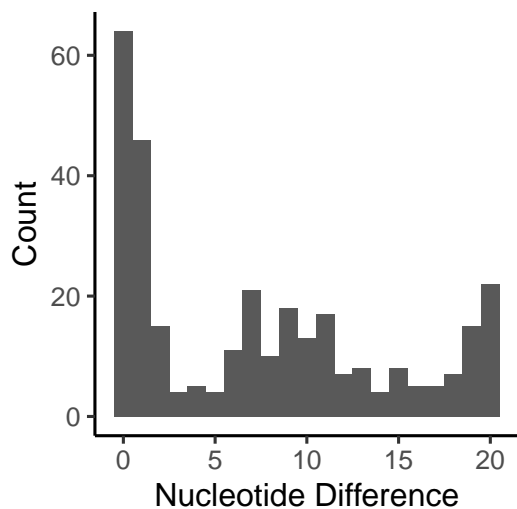
IGHV1-45*02

2 sequences assigned
No exact matches.



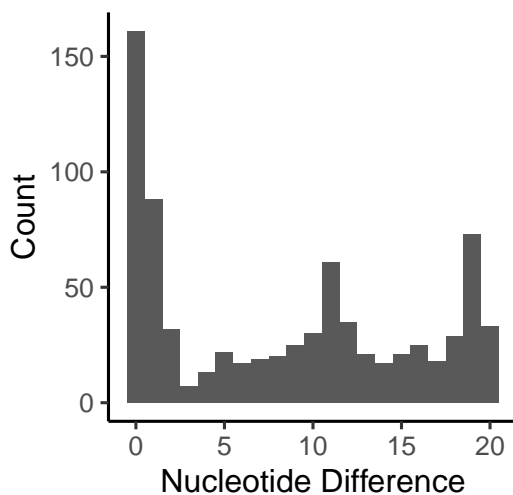
IGHV1-3*01

543 sequences assigned
64 (11.8%) exact matches, in which:
63 unique CDR3
4 unique J



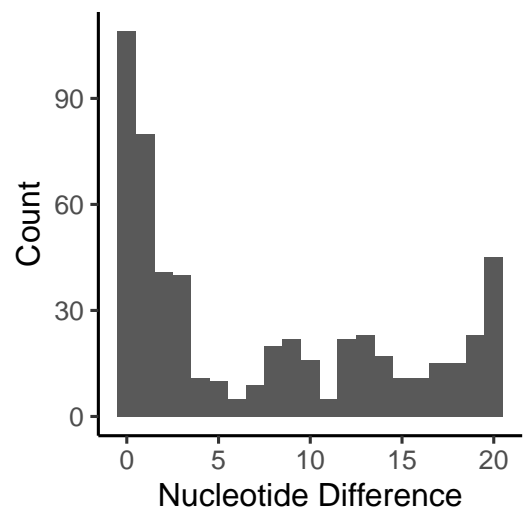
IGHV1-18*04

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



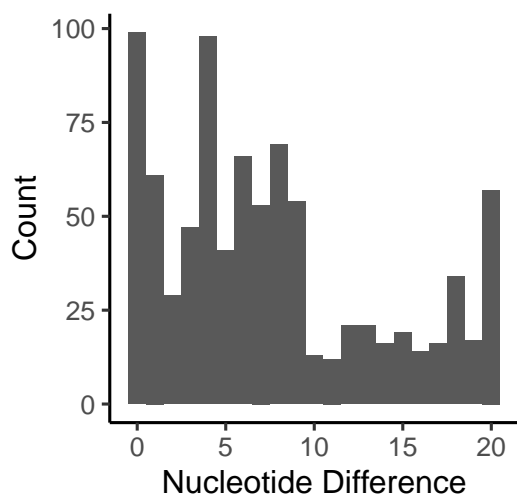
IGHV1-46*01

976 sequences assigned
109 (11.2%) exact matches, in which:
94 unique CDR3
5 unique J



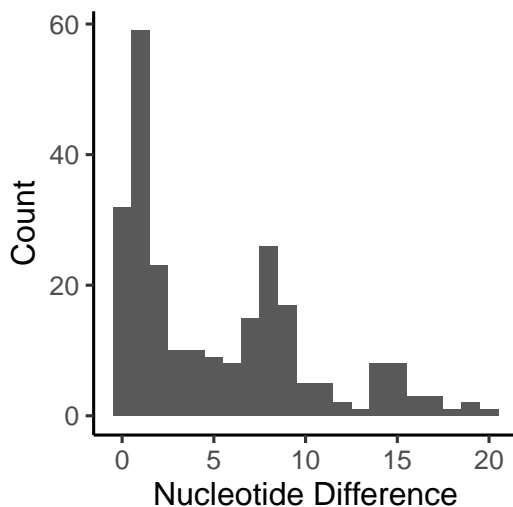
IGHV1-8*01

978 sequences assigned
99 (10.1%) exact matches, in which:
96 unique CDR3
5 unique J



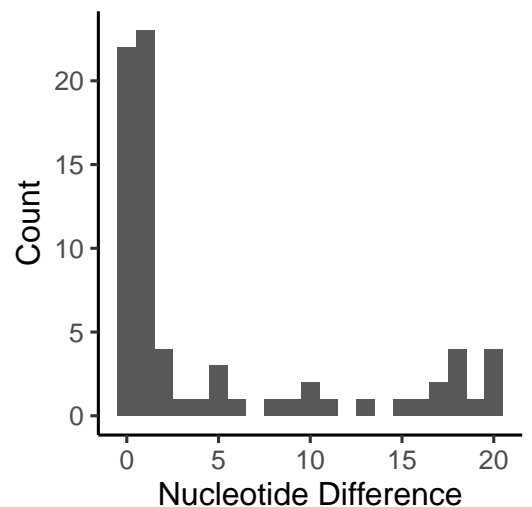
IGHV1-24*01

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



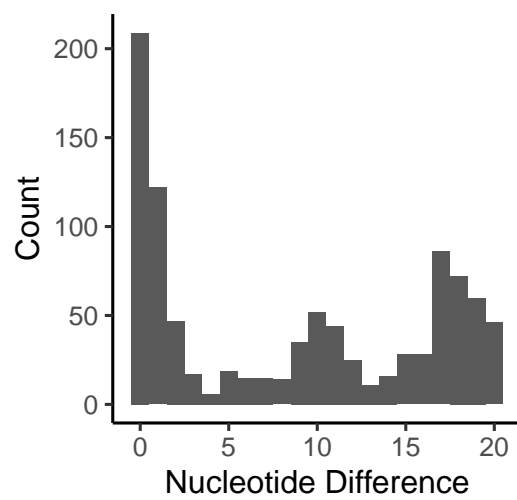
IGHV1-58*01

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



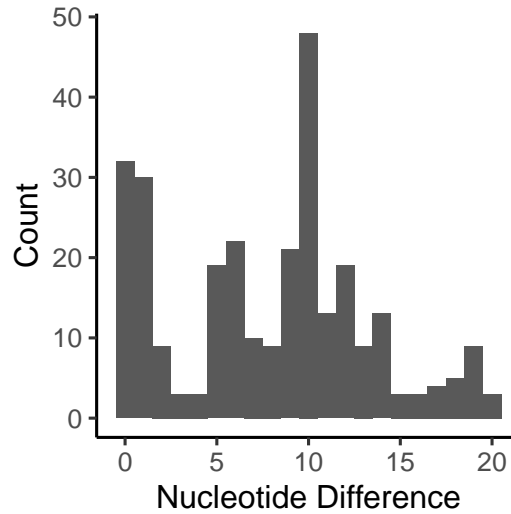
IGHV1-69*01

1589 sequences assigned
209 (13.2%) exact matches, in which:
204 unique CDR3
6 unique J



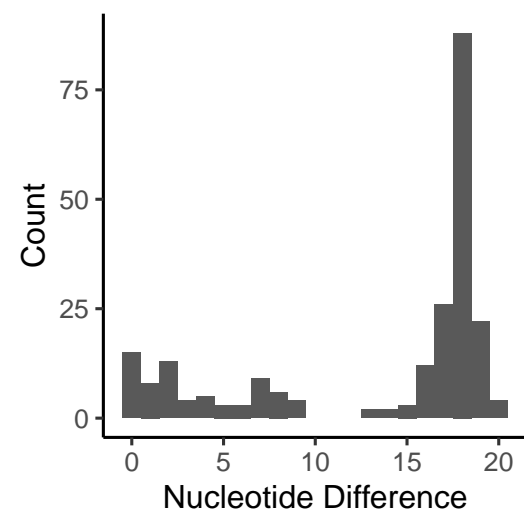
IGHV2-5*01

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



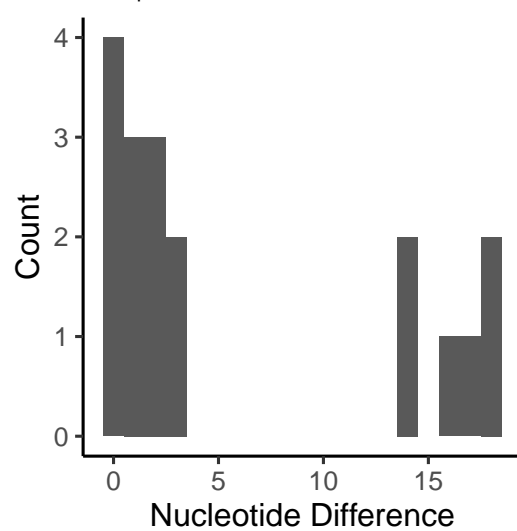
IGHV2-70*01

254 sequences assigned
15 (5.9%) exact matches, in which:
14 unique CDR3
5 unique J



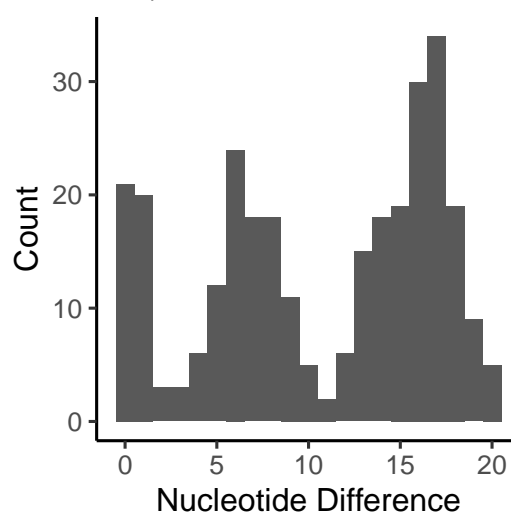
IGHV1-69-2*01

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



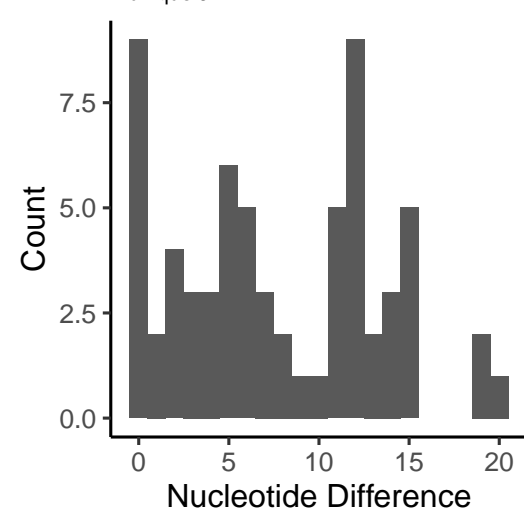
IGHV2-5*02

538 sequences assigned
21 (3.9%) exact matches, in which:
19 unique CDR3
5 unique J



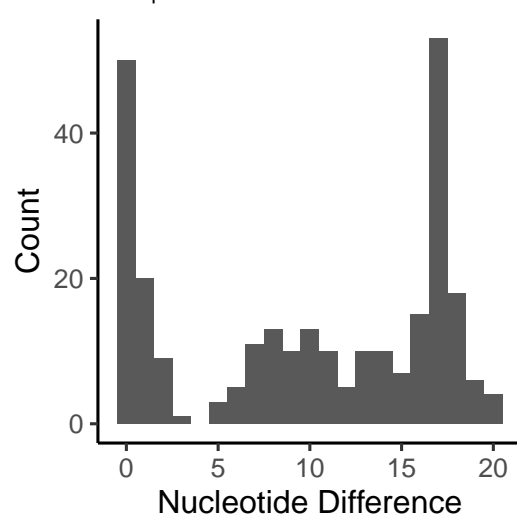
IGHV2-70*04

70 sequences assigned
9 (12.9%) exact matches, in which:
7 unique CDR3
1 unique J



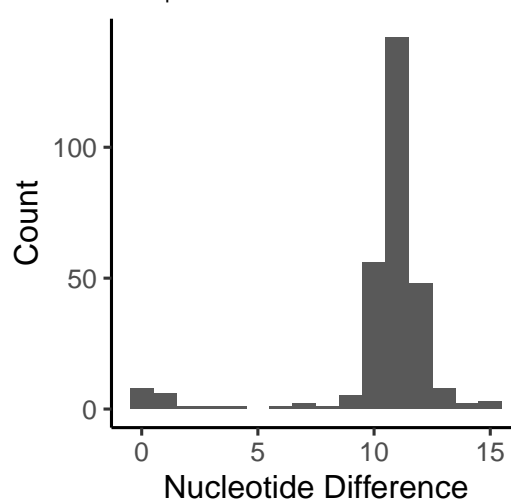
IGHV1-69*06

670 sequences assigned
50 (7.5%) exact matches, in which:
50 unique CDR3
5 unique J



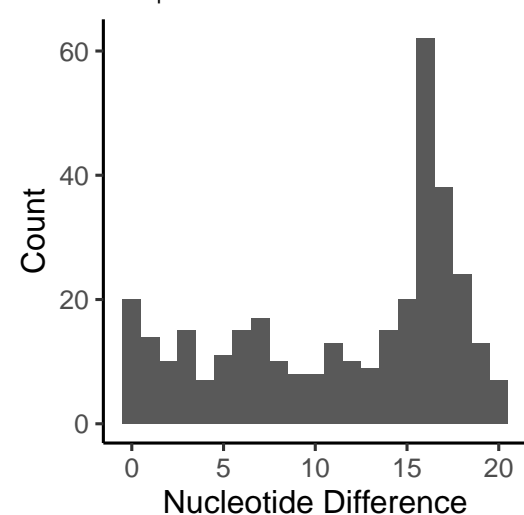
IGHV2-26*01

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



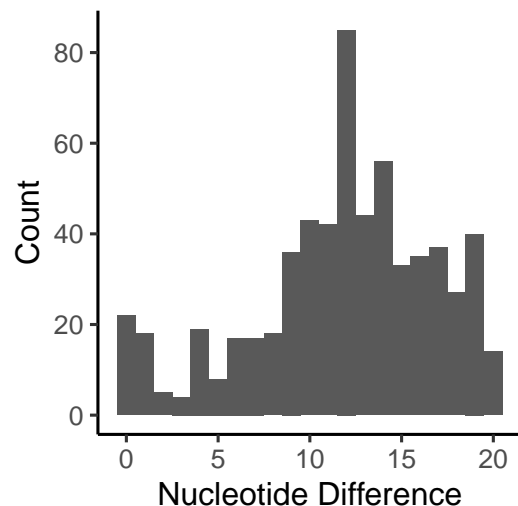
IGHV3-7*01

546 sequences assigned
20 (3.7%) exact matches, in which:
19 unique CDR3
5 unique J



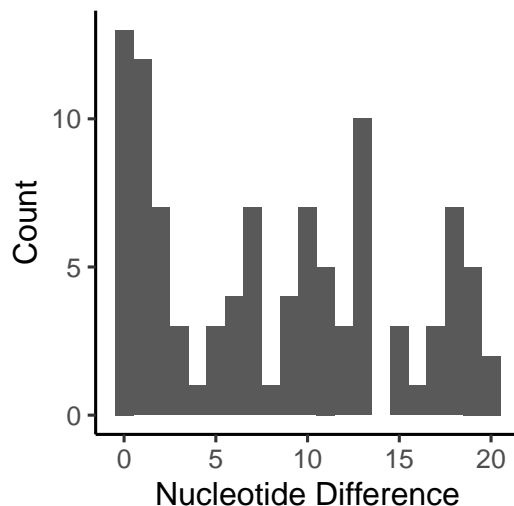
IGHV3-7*03

1025 sequences assigned
22 (2.1%) exact matches, in which:
22 unique CDR3
5 unique J



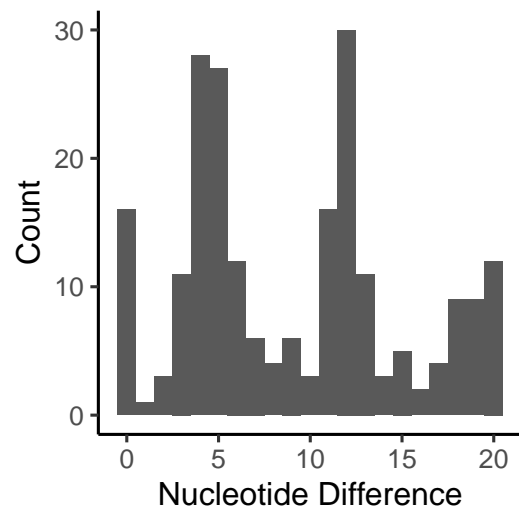
IGHV3-11*06

167 sequences assigned
13 (7.8%) exact matches, in which:
13 unique CDR3
3 unique J



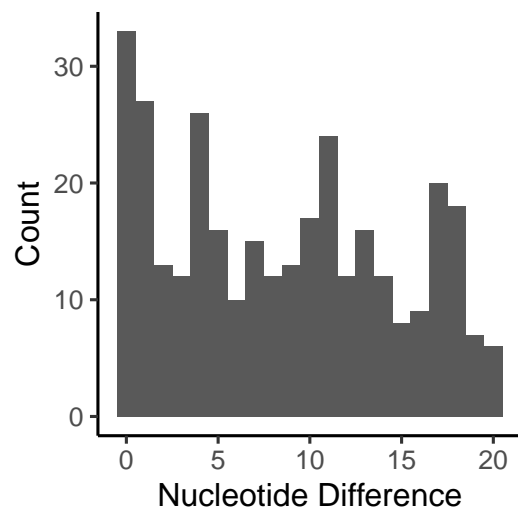
IGHV3-15*01

451 sequences assigned
16 (3.5%) exact matches, in which:
16 unique CDR3
3 unique J



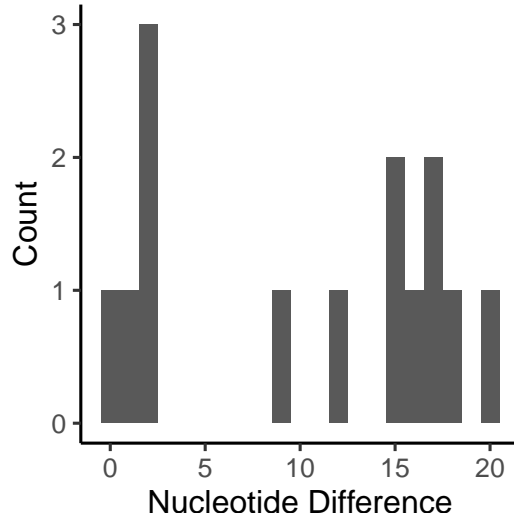
IGHV3-9*01

436 sequences assigned
33 (7.6%) exact matches, in which:
31 unique CDR3
3 unique J



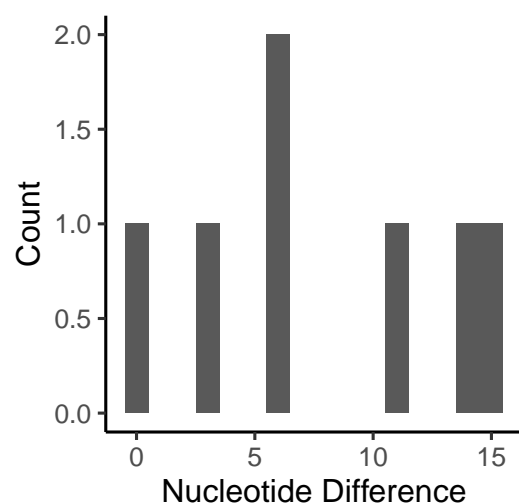
IGHV3-13*01

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



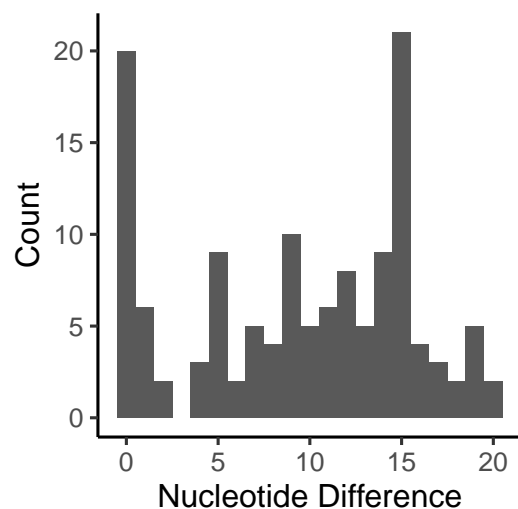
IGHV3-20*01

10 sequences assigned
1 (10%) exact matches, in which:
1 unique CDR3
1 unique J



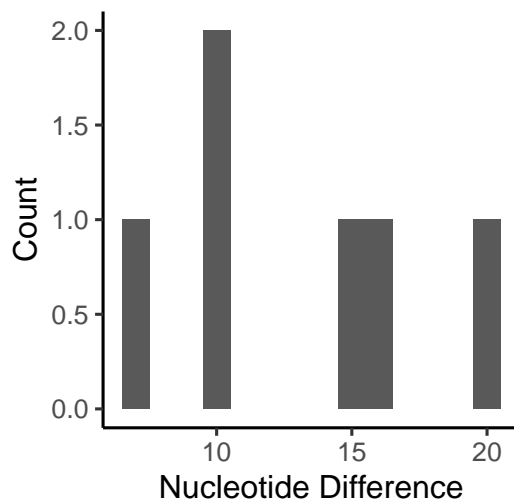
IGHV3-11*01

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



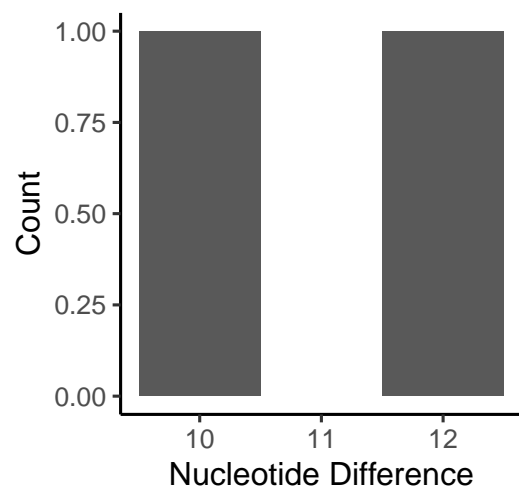
IGHV3-13*05

11 sequences assigned
No exact matches.



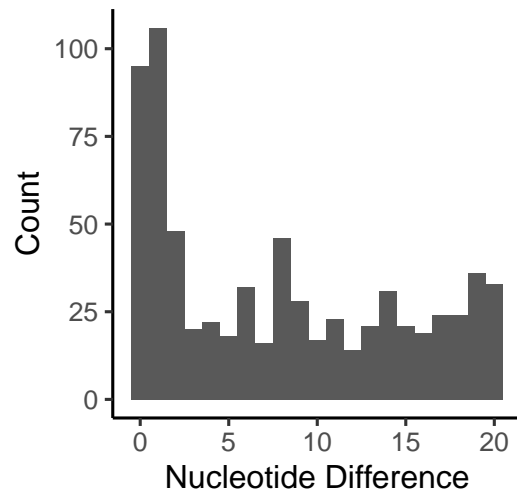
IGHV3-20*04

3 sequences assigned
No exact matches.



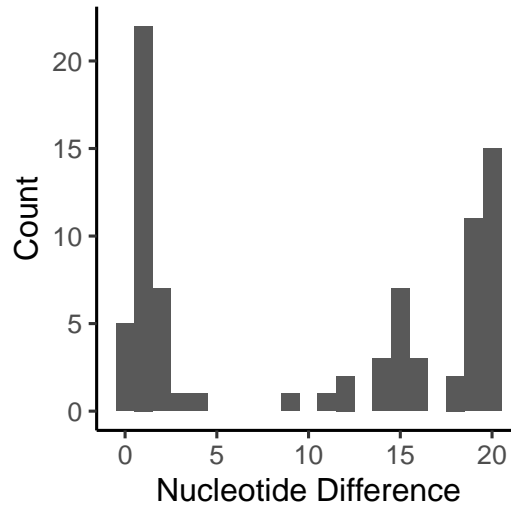
IGHV3-21*01

982 sequences assigned
95 (9.7%) exact matches, in which:
81 unique CDR3
6 unique J



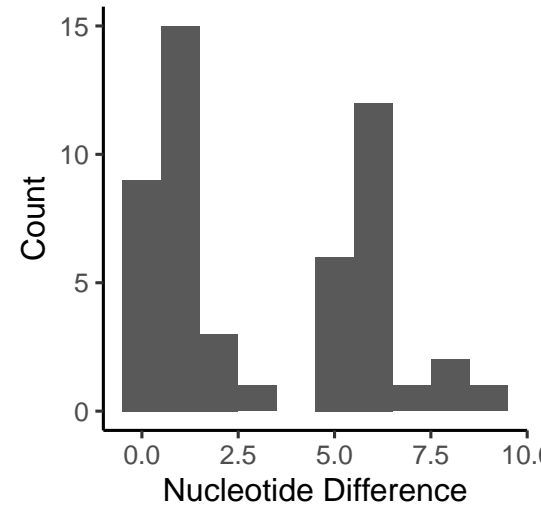
IGHV3-30*04

369 sequences assigned
5 (1.4%) exact matches, in which:
1 unique CDR3
1 unique J



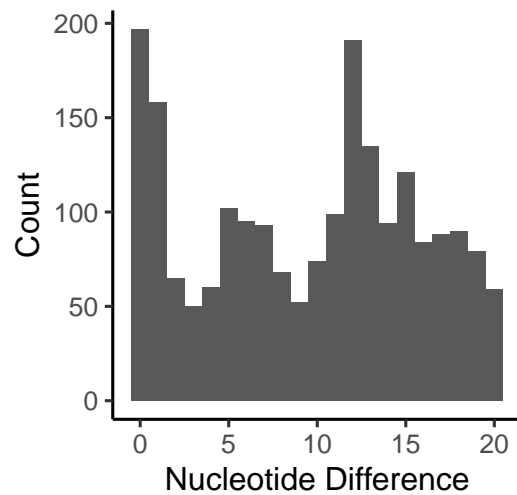
IGHV3-43*01

71 sequences assigned
9 (12.7%) exact matches, in which:
4 unique CDR3
2 unique J



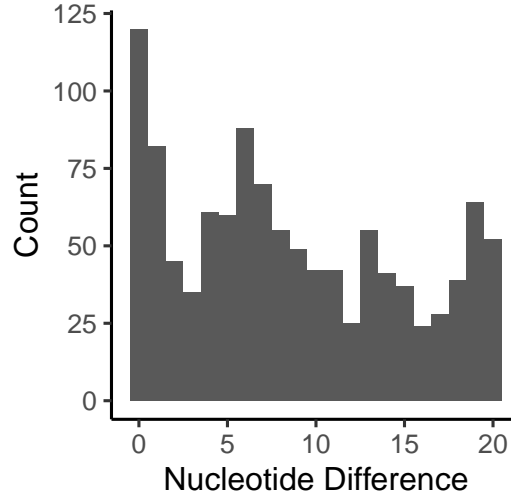
IGHV3-23*01

3616 sequences assigned
197 (5.4%) exact matches, in which:
180 unique CDR3
6 unique J



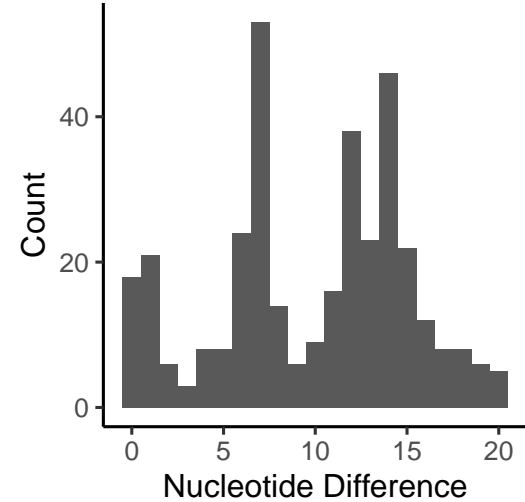
IGHV3-30*18

1417 sequences assigned
120 (8.5%) exact matches, in which:
118 unique CDR3
5 unique J



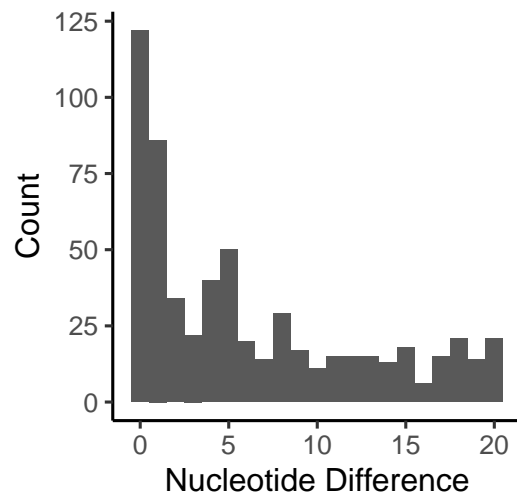
IGHV3-48*02

542 sequences assigned
18 (3.3%) exact matches, in which:
16 unique CDR3
4 unique J



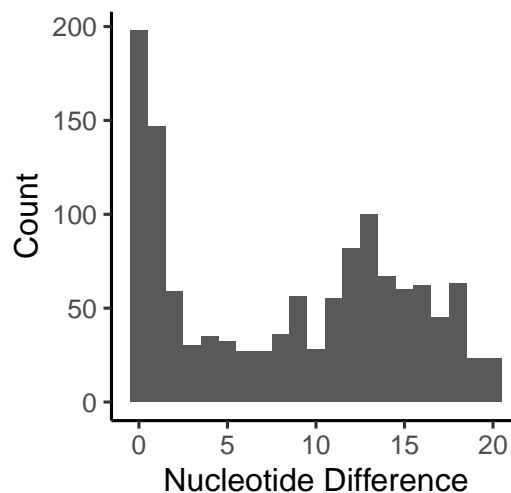
IGHV3-30-3*01

944 sequences assigned
122 (12.9%) exact matches, in which:
118 unique CDR3
5 unique J



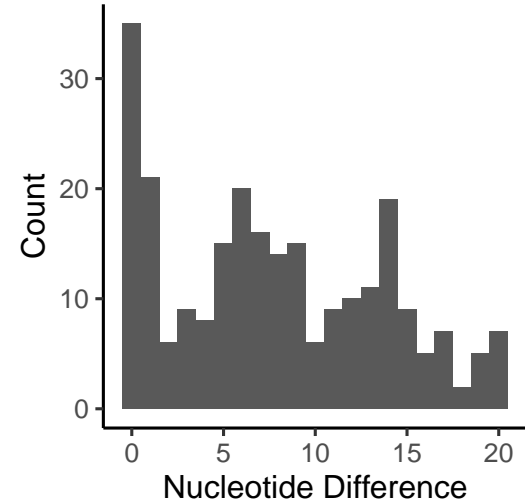
IGHV3-33*01

1682 sequences assigned
198 (11.8%) exact matches, in which:
185 unique CDR3
6 unique J



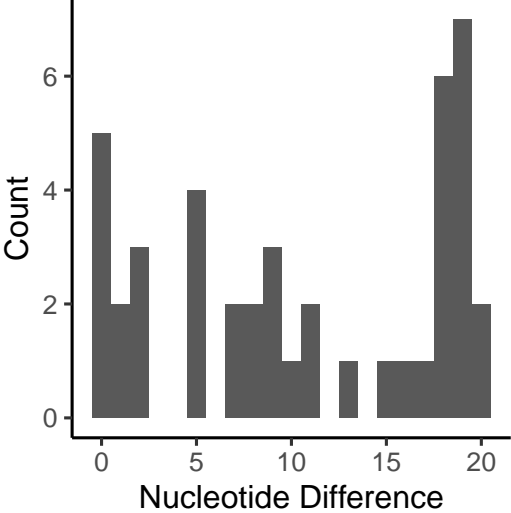
IGHV3-48*03

336 sequences assigned
35 (10.4%) exact matches, in which:
35 unique CDR3
5 unique J



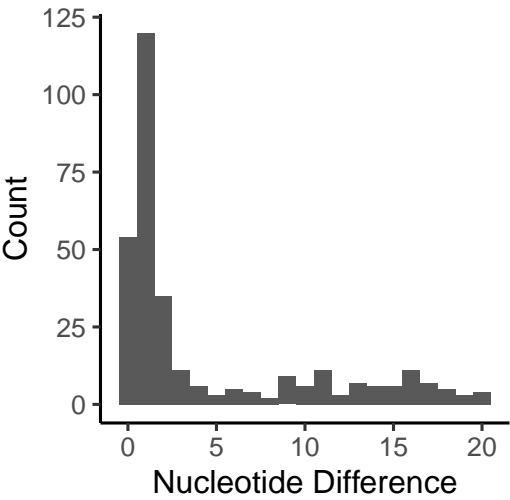
IGHV3-49*04

53 sequences assigned
5 (9.4%) exact matches, in which:
5 unique CDR3
3 unique J



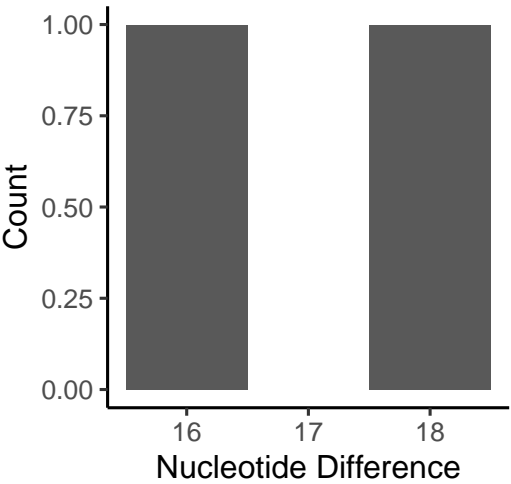
IGHV3-53*02

432 sequences assigned
54 (12.5%) exact matches, in which:
37 unique CDR3
5 unique J



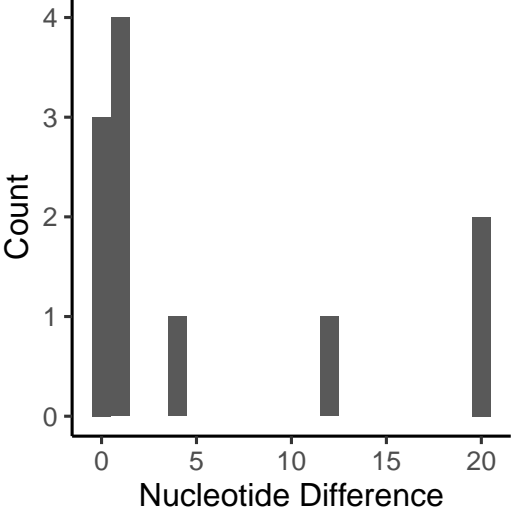
IGHV3-66*04

2 sequences assigned
No exact matches.



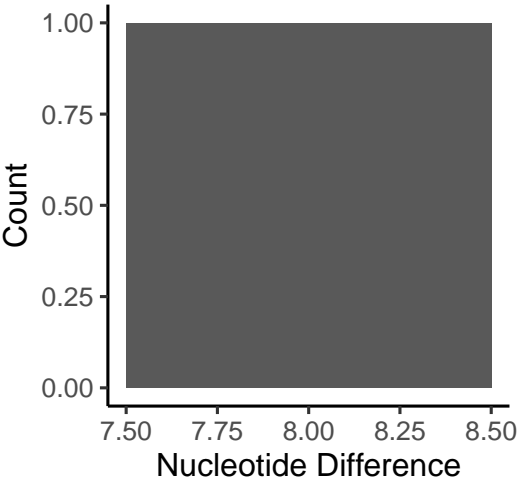
IGHV3-49*05

47 sequences assigned
3 (6.4%) exact matches, in which:
3 unique CDR3
2 unique J



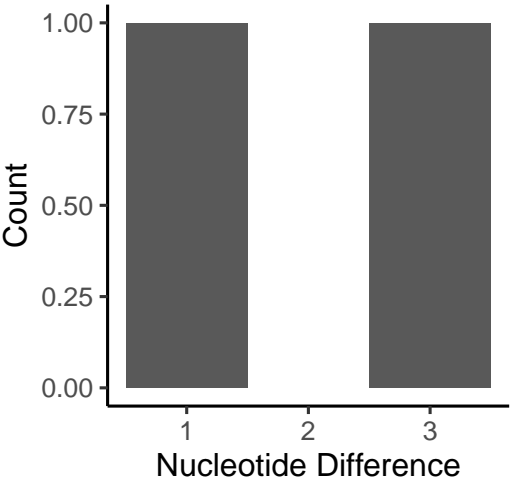
IGHV3-64*02

2 sequences assigned
No exact matches.



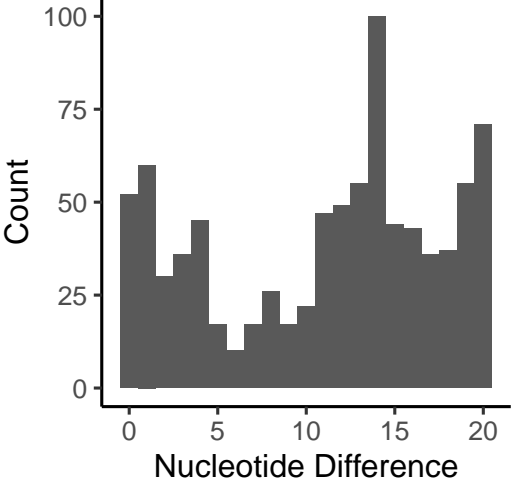
IGHV3-69-1*01

2 sequences assigned
No exact matches.



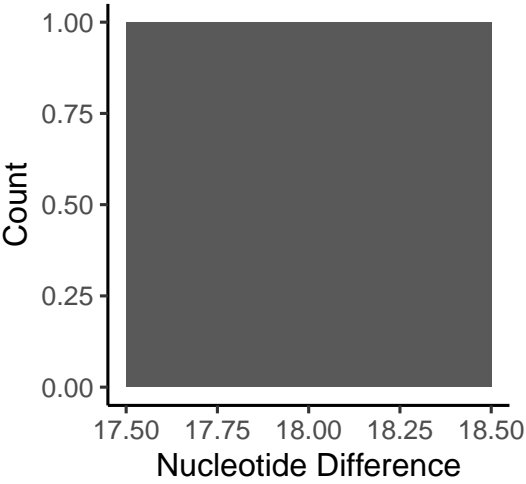
IGHV3-53*01

1180 sequences assigned
52 (4.4%) exact matches, in which:
48 unique CDR3
5 unique J



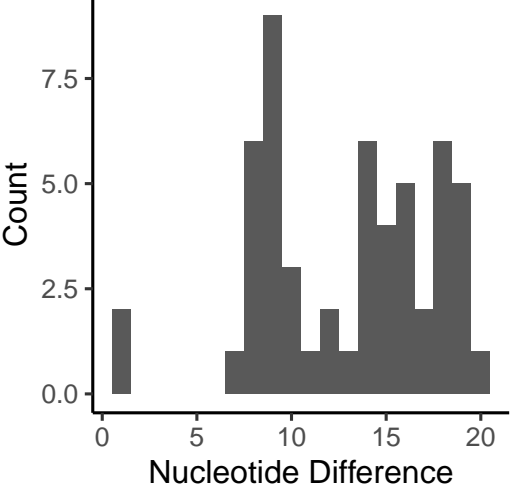
IGHV3-66*01

3 sequences assigned
No exact matches.



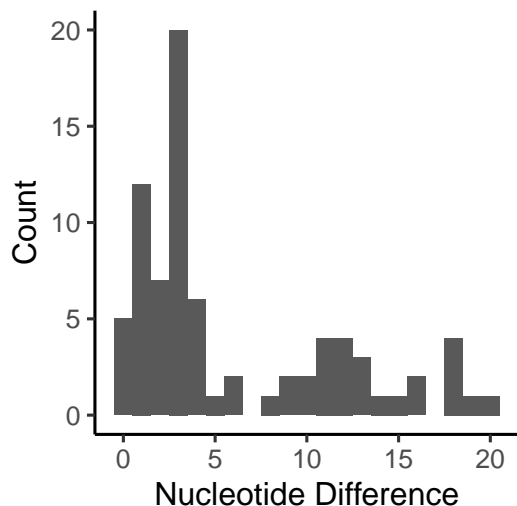
IGHV3-72*01

92 sequences assigned
No exact matches.



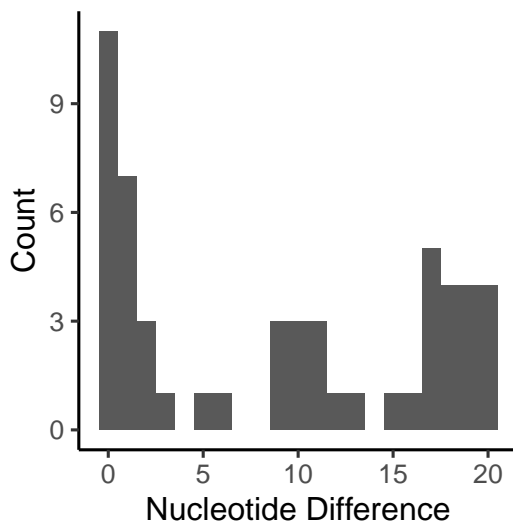
IGHV3-73*02

90 sequences assigned
5 (5.6%) exact matches, in which:
5 unique CDR3
4 unique J



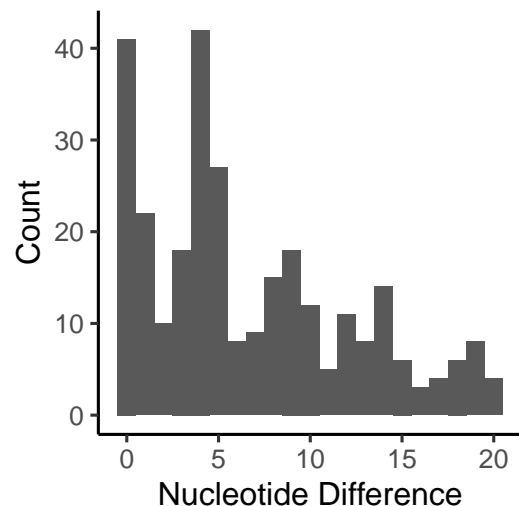
IGHV3-64D*06

128 sequences assigned
11 (8.6%) exact matches, in which:
11 unique CDR3
4 unique J



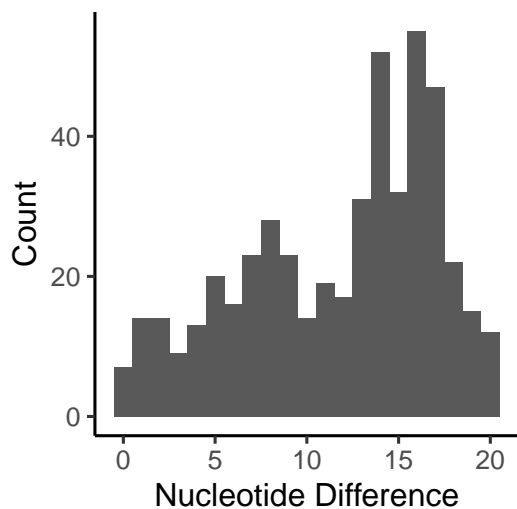
IGHV4-30-4*01

398 sequences assigned
41 (10.3%) exact matches, in which:
33 unique CDR3
4 unique J



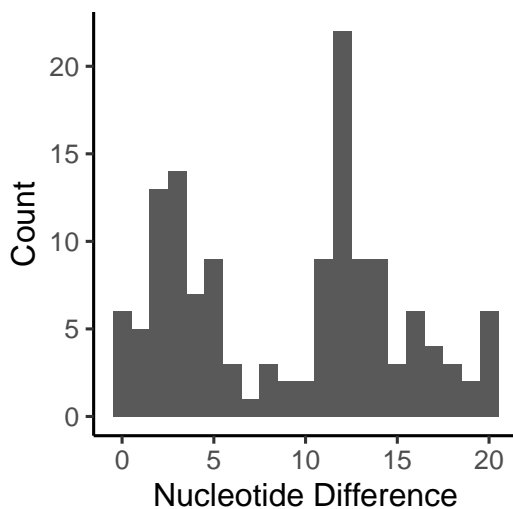
IGHV3-74*01

694 sequences assigned
7 (1%) exact matches, in which:
7 unique CDR3
2 unique J



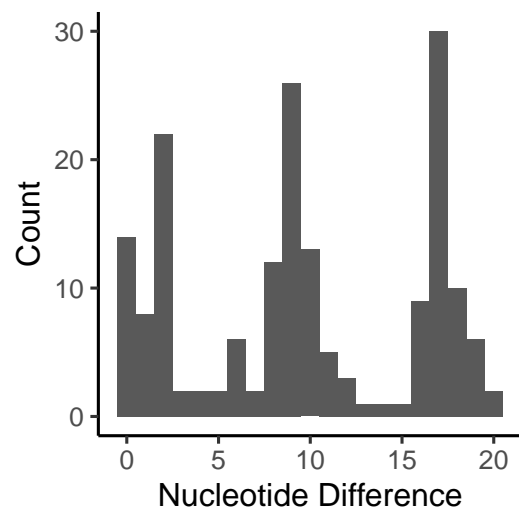
IGHV4-4*02

234 sequences assigned
6 (2.6%) exact matches, in which:
6 unique CDR3
3 unique J



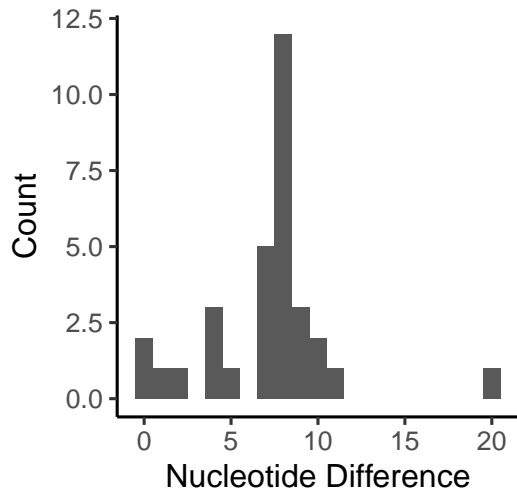
IGHV4-30-2*01

307 sequences assigned
14 (4.6%) exact matches, in which:
14 unique CDR3
4 unique J



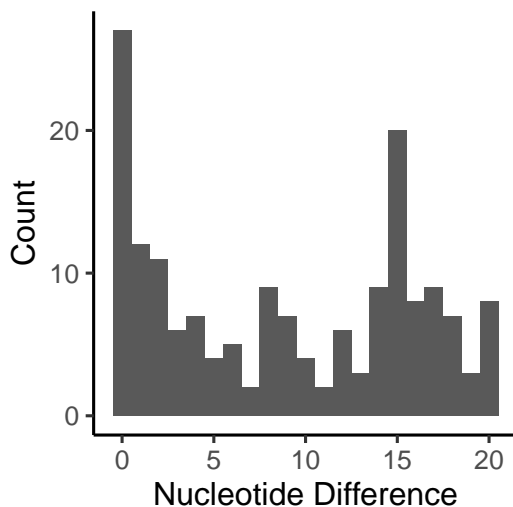
IGHV3-43D*04

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



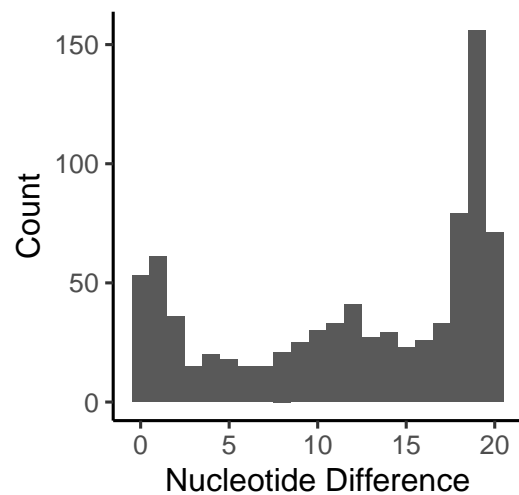
IGHV4-4*07

369 sequences assigned
27 (7.3%) exact matches, in which:
26 unique CDR3
5 unique J



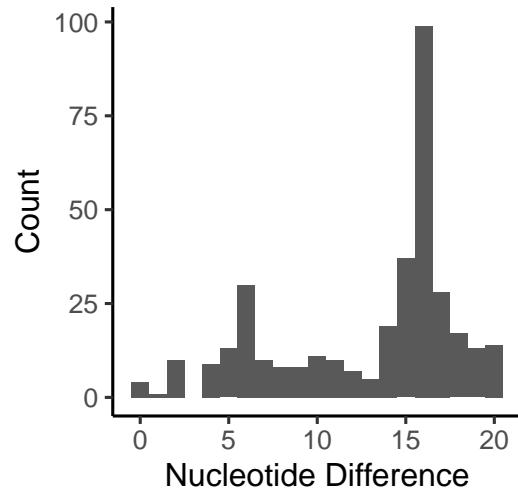
IGHV4-31*03

1028 sequences assigned
53 (5.2%) exact matches, in which:
46 unique CDR3
5 unique J



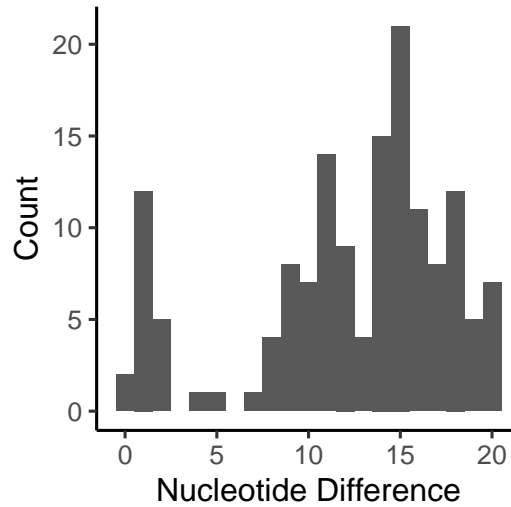
IGHV4-34*01

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



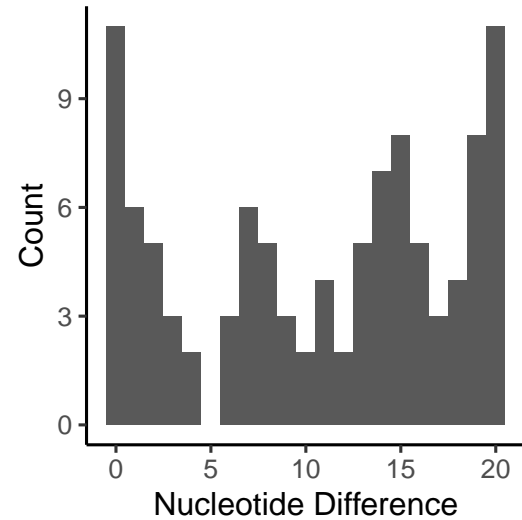
IGHV4-38-2*02

181 sequences assigned
2 (1.1%) exact matches, in which:
2 unique CDR3
2 unique J



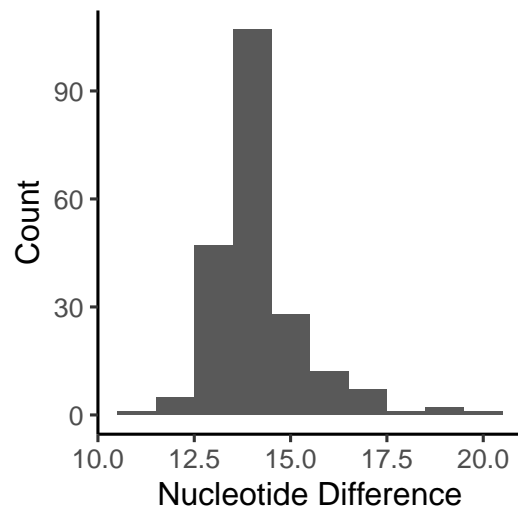
IGHV4-61*01

156 sequences assigned
11 (7.1%) exact matches, in which:
11 unique CDR3
4 unique J



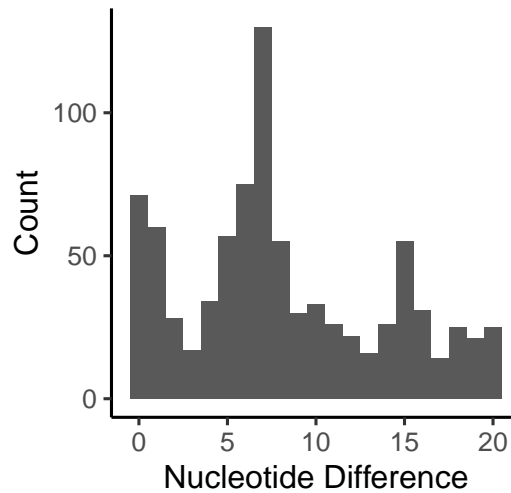
IGHV4-34*02

637 sequences assigned
No exact matches.



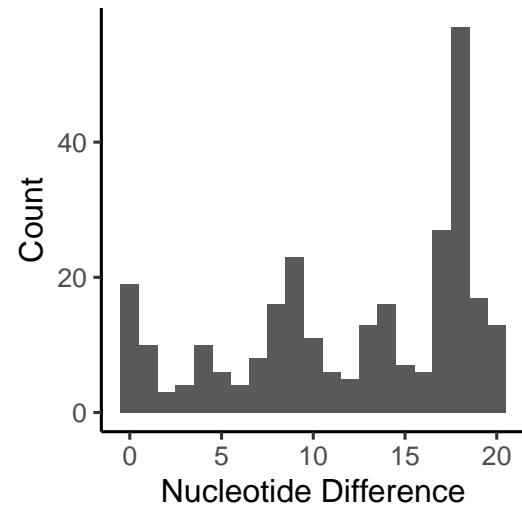
IGHV4-39*01

1187 sequences assigned
71 (6%) exact matches, in which:
70 unique CDR3
6 unique J



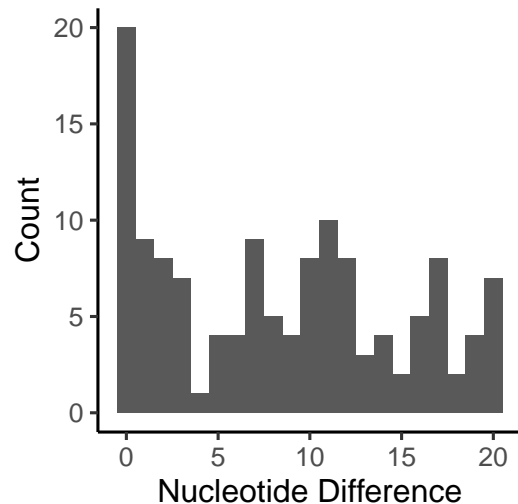
IGHV5-10-1*03

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



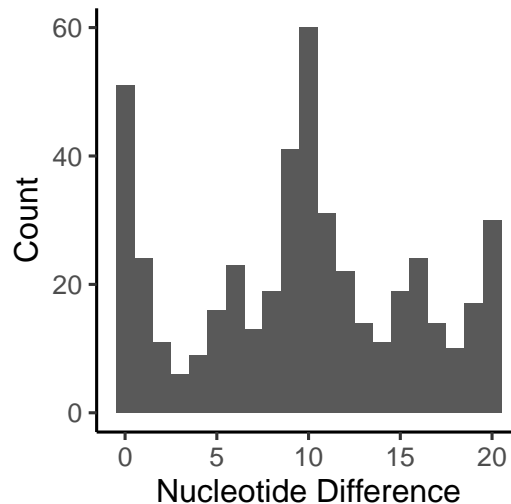
IGHV4-38-2*01

308 sequences assigned
20 (6.5%) exact matches, in which:
20 unique CDR3
4 unique J



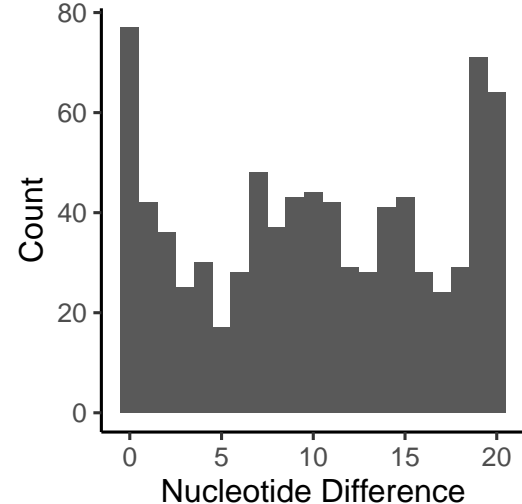
IGHV4-59*01

863 sequences assigned
51 (5.9%) exact matches, in which:
49 unique CDR3
5 unique J



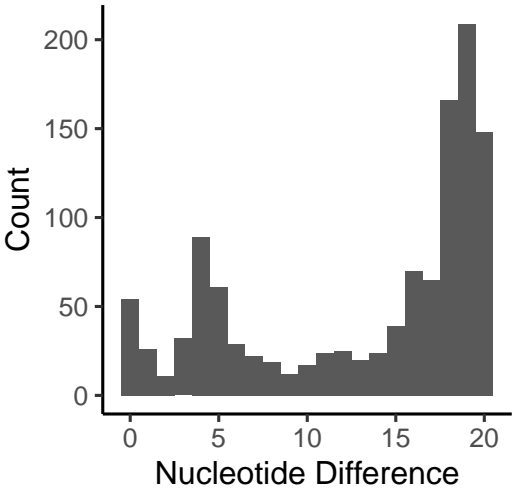
IGHV5-51*01

1070 sequences assigned
77 (7.2%) exact matches, in which:
75 unique CDR3
4 unique J



IGHV6-1*01

1480 sequences assigned
54 (3.6%) exact matches, in which:
53 unique CDR3
5 unique J





Warning – no inferred sequences found.