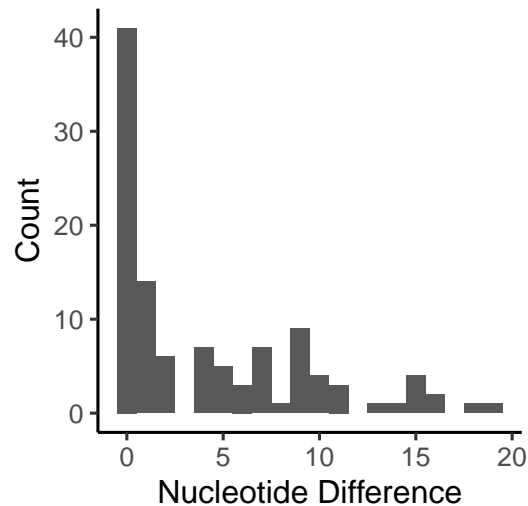


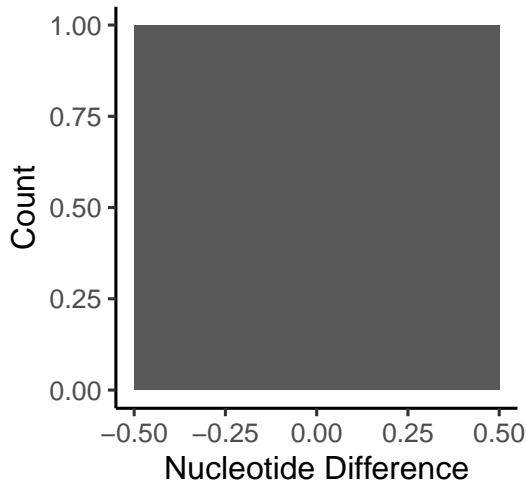
IGHV1-2*04

111 sequences assigned
41 (36.9%) exact matches, in which:
39 unique CDR3
6 unique J



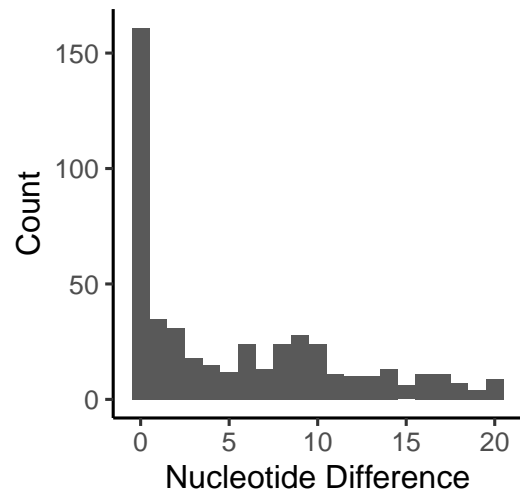
IGHV1-8*01

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



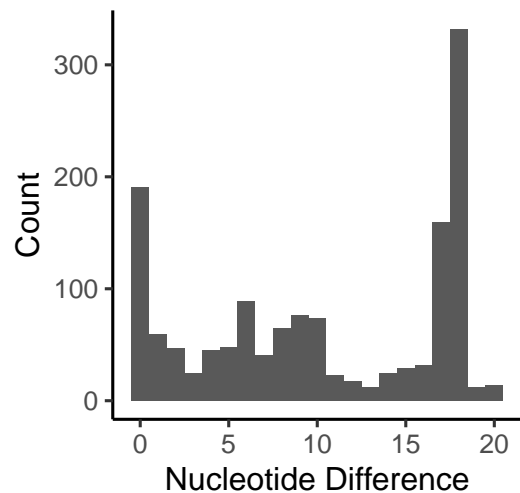
IGHV1-46*01

1117 sequences assigned
161 (14.4%) exact matches, in which:
155 unique CDR3
7 unique J



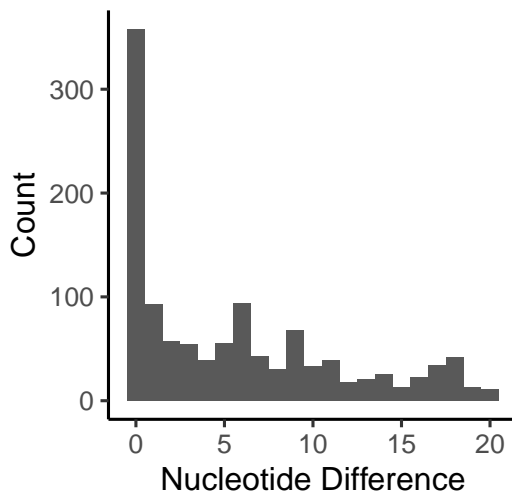
IGHV1-2*06

1481 sequences assigned
191 (12.9%) exact matches, in which:
181 unique CDR3
7 unique J



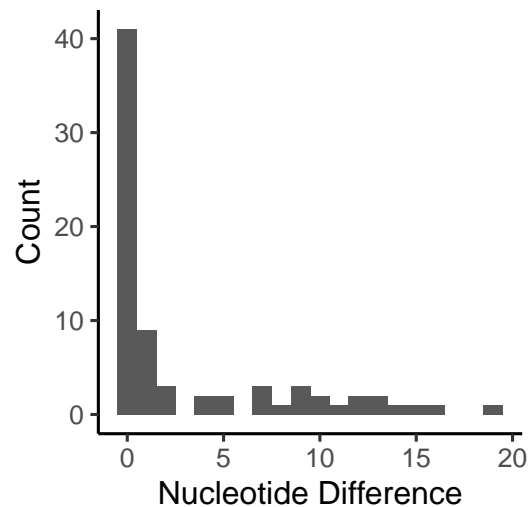
IGHV1-18*01

1328 sequences assigned
358 (27%) exact matches, in which:
339 unique CDR3
7 unique J



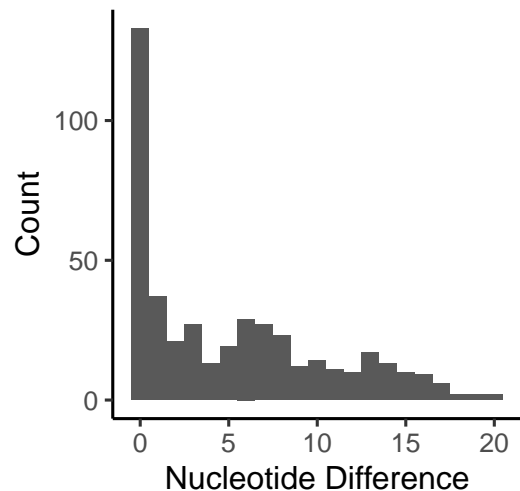
IGHV1-58*01_03

78 sequences assigned
41 (52.6%) exact matches, in which:
37 unique CDR3
6 unique J



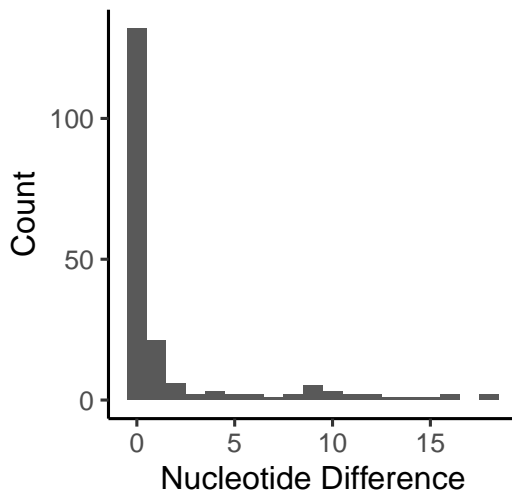
IGHV1-3*01_05

459 sequences assigned
133 (29%) exact matches, in which:
128 unique CDR3
7 unique J



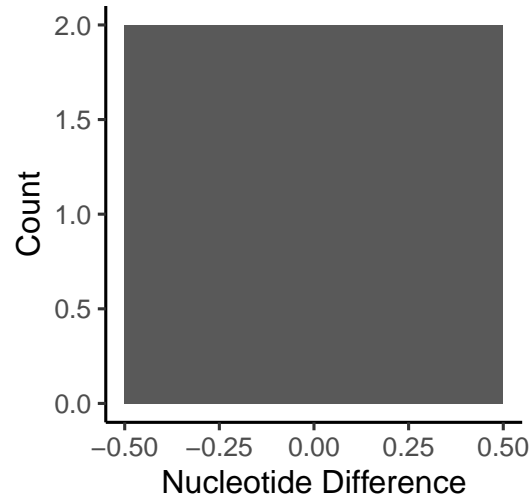
IGHV1-24*01

192 sequences assigned
132 (68.8%) exact matches, in which:
121 unique CDR3
6 unique J



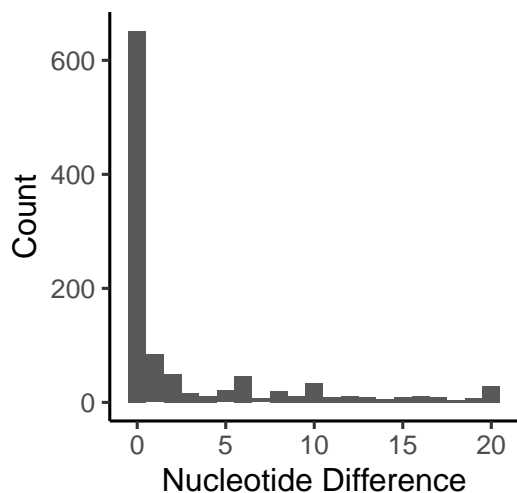
IGHV1-69-2*01

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
2 unique J



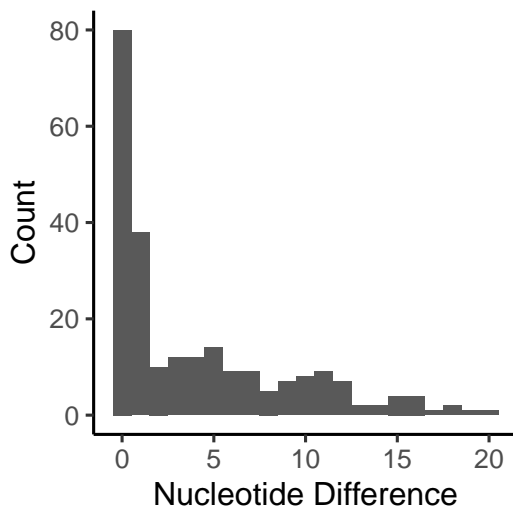
IGHV1-69*01_12_13

1099 sequences assigned
652 (59.3%) exact matches, in which:
638 unique CDR3
7 unique J



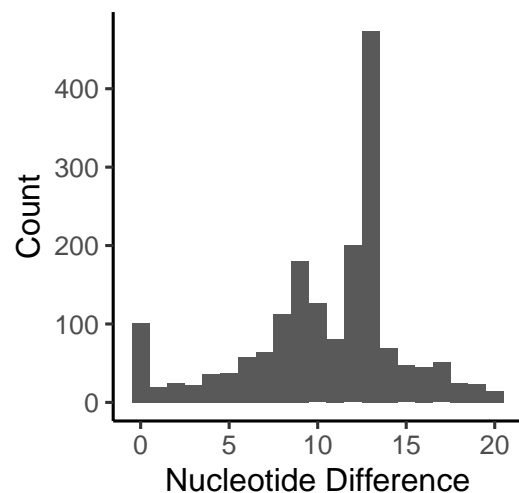
IGHV2-5*02

255 sequences assigned
80 (31.4%) exact matches, in which:
73 unique CDR3
4 unique J



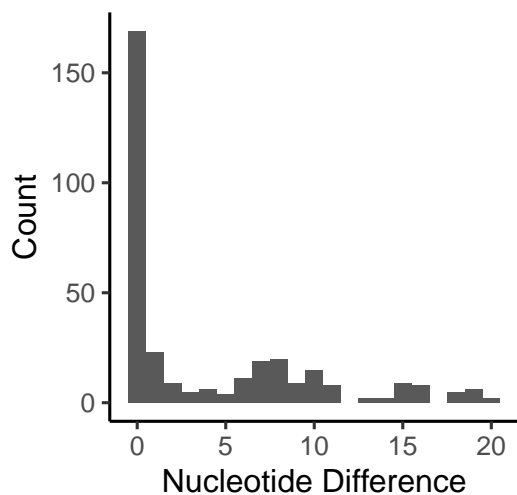
IGHV3-7*01

1903 sequences assigned
101 (5.3%) exact matches, in which:
60 unique CDR3
6 unique J



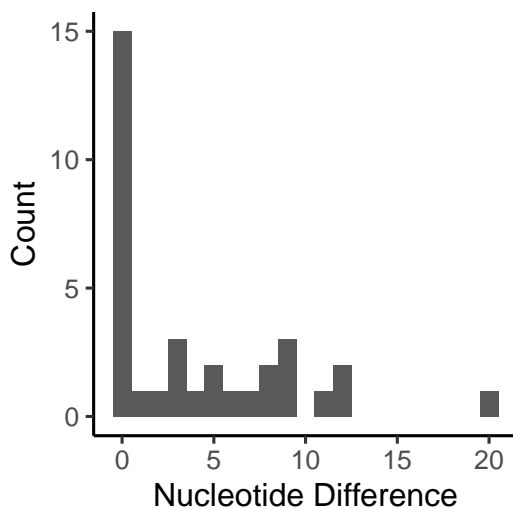
IGHV1-69*06_14

358 sequences assigned
169 (47.2%) exact matches, in which:
167 unique CDR3
6 unique J



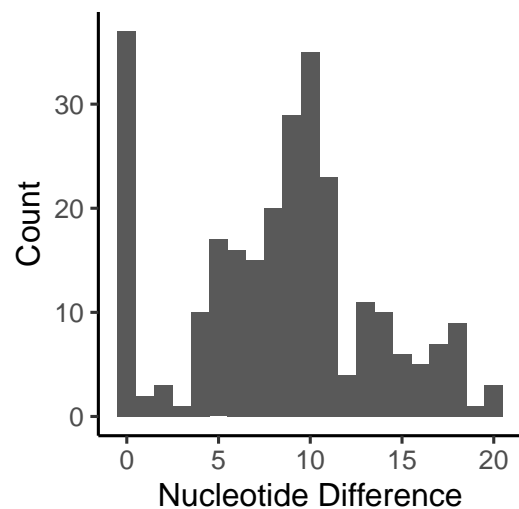
IGHV2-26*01

36 sequences assigned
15 (41.7%) exact matches, in which:
15 unique CDR3
5 unique J



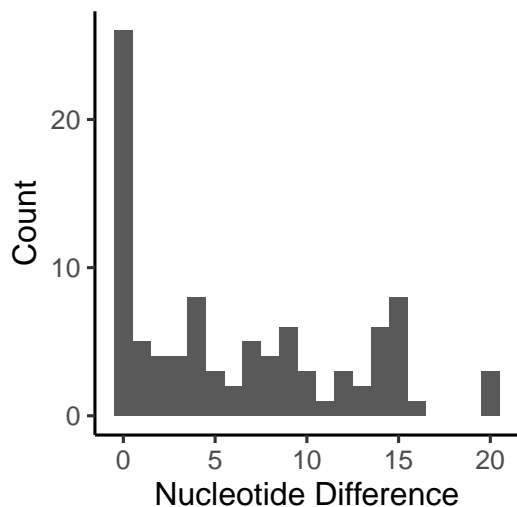
IGHV3-7*05

274 sequences assigned
37 (13.5%) exact matches, in which:
21 unique CDR3
5 unique J



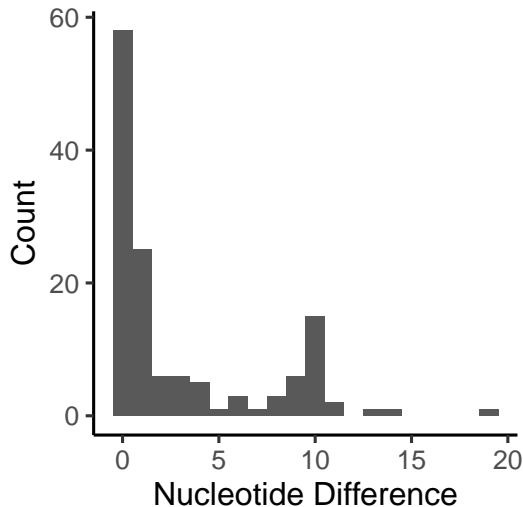
IGHV2-5*01

103 sequences assigned
26 (25.2%) exact matches, in which:
25 unique CDR3
5 unique J



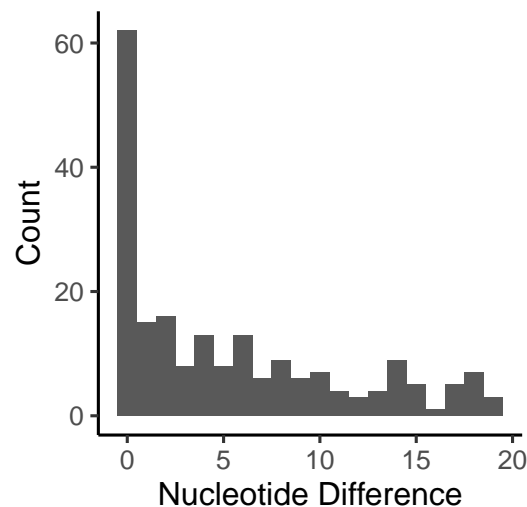
IGHV2-70*01

139 sequences assigned
58 (41.7%) exact matches, in which:
54 unique CDR3
5 unique J



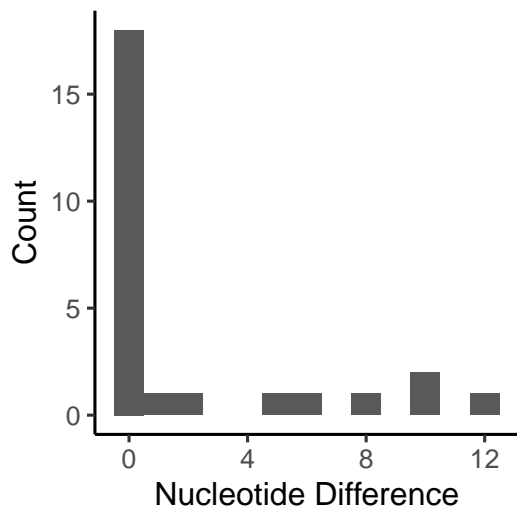
IGHV3-11*06

217 sequences assigned
62 (28.6%) exact matches, in which:
34 unique CDR3
5 unique J



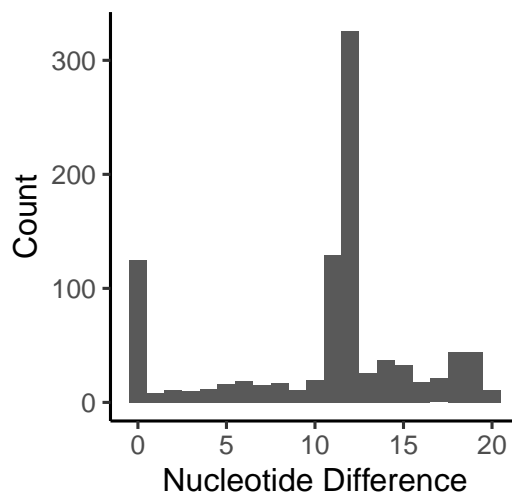
IGHV3-13*05

26 sequences assigned
18 (69.2%) exact matches, in which:
8 unique CDR3
3 unique J



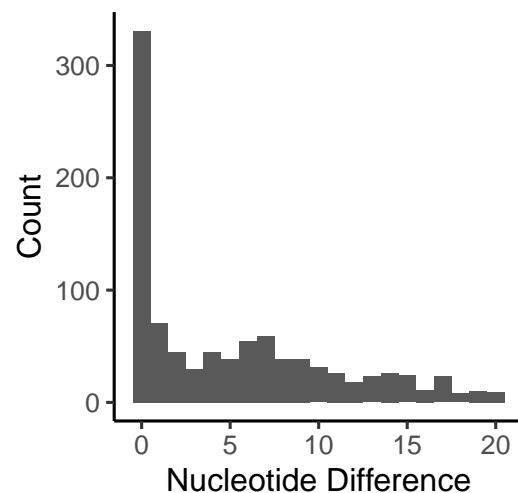
IGHV3-15*01_02

970 sequences assigned
125 (12.9%) exact matches, in which:
76 unique CDR3
7 unique J



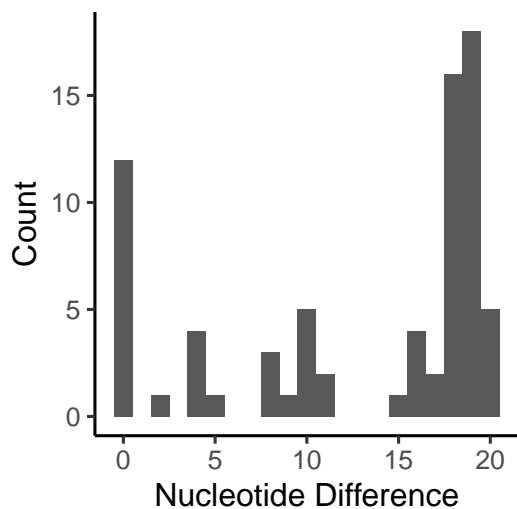
IGHV3-21*01_02

2335 sequences assigned
331 (14.2%) exact matches, in which:
202 unique CDR3
7 unique J



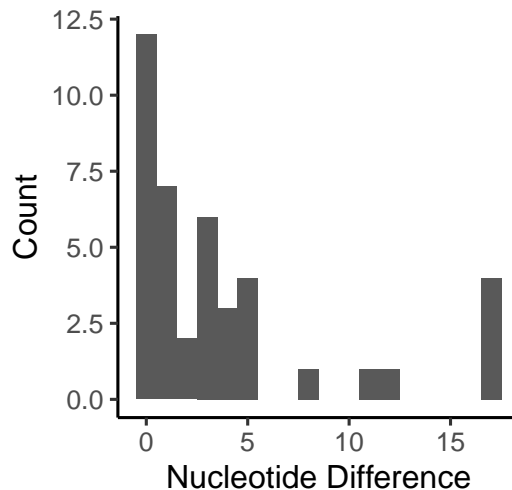
IGHV3-13*01_G290A_T3I

91 sequences assigned
12 (13.2%) exact matches, in which:
7 unique CDR3
3 unique J



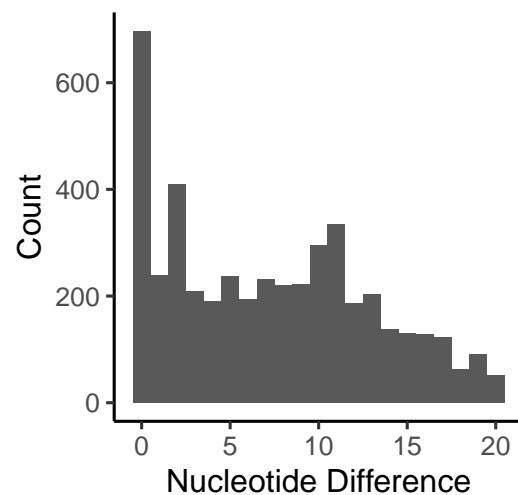
IGHV3-20*01_02

41 sequences assigned
12 (29.3%) exact matches, in which:
8 unique CDR3
4 unique J



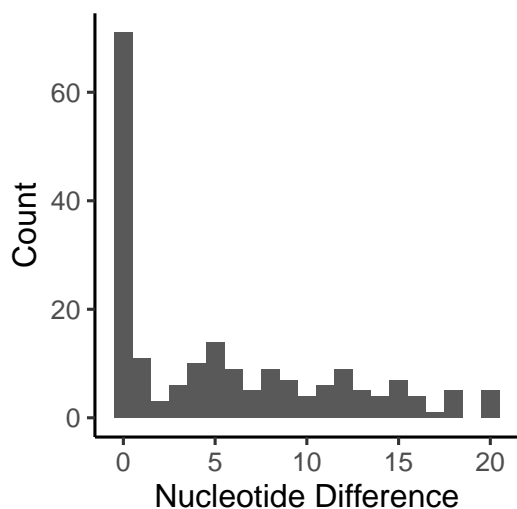
IGHV3-23*01_04

6275 sequences assigned
697 (11.1%) exact matches, in which:
432 unique CDR3
7 unique J



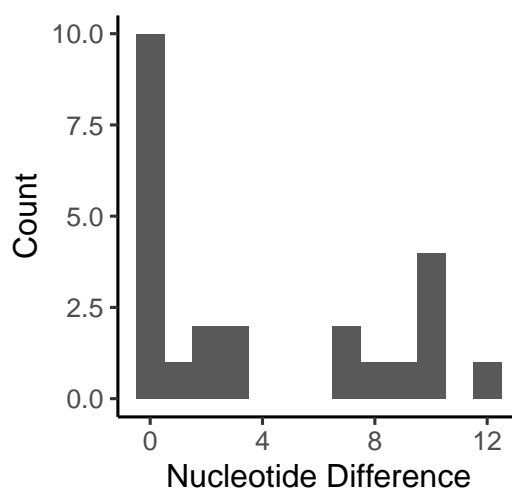
IGHV3-15*07

206 sequences assigned
71 (34.5%) exact matches, in which:
50 unique CDR3
4 unique J



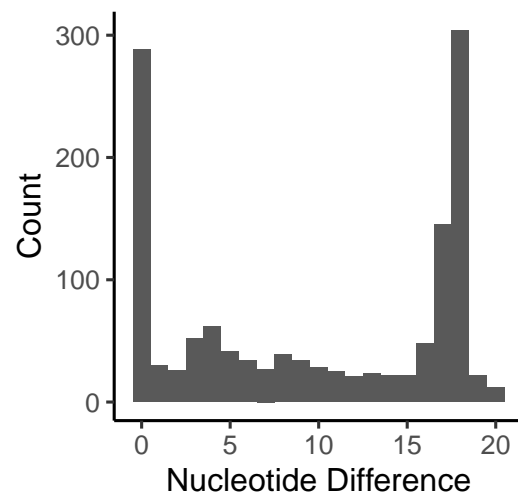
IGHV3-20*03_04

24 sequences assigned
10 (41.7%) exact matches, in which:
5 unique CDR3
2 unique J



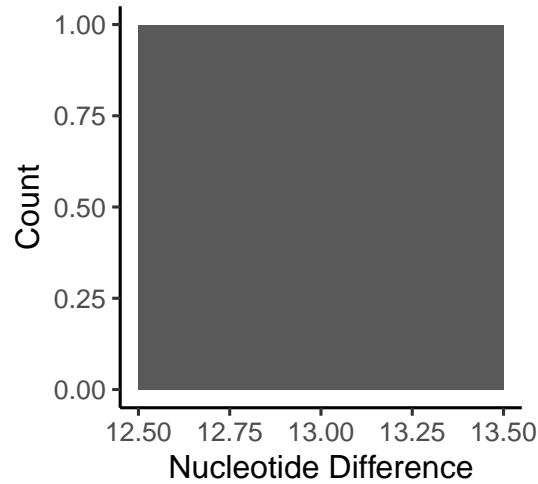
IGHV3-30*01

1361 sequences assigned
288 (21.2%) exact matches, in which:
171 unique CDR3
6 unique J



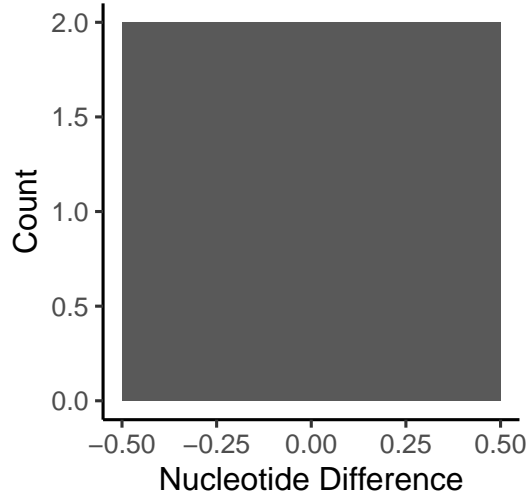
IGHV3-30-3*01

2 sequences assigned
No exact matches.



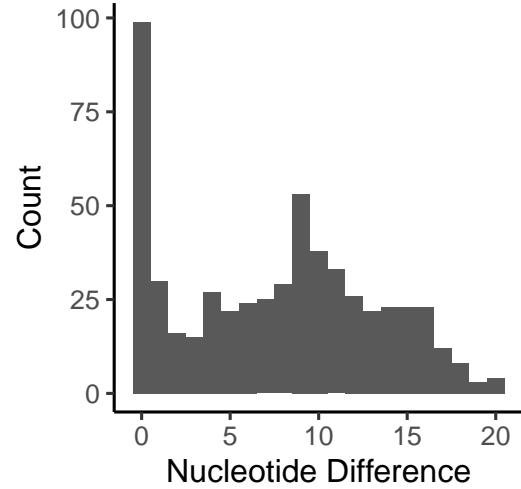
IGHV3-47*01

2 sequences assigned
2 (100%) exact matches, in which:
1 unique CDR3
1 unique J



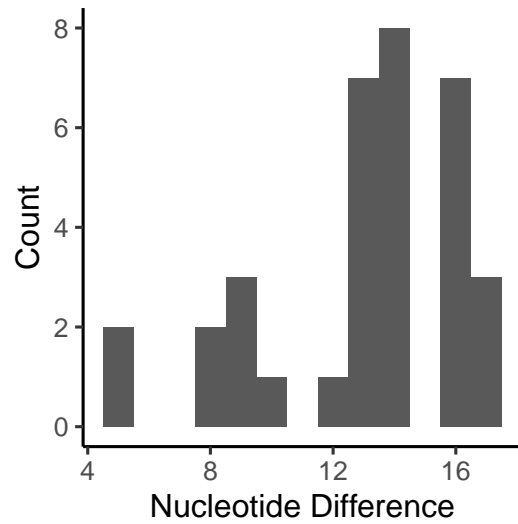
IGHV3-53*01_02

626 sequences assigned
99 (15.8%) exact matches, in which:
52 unique CDR3
7 unique J



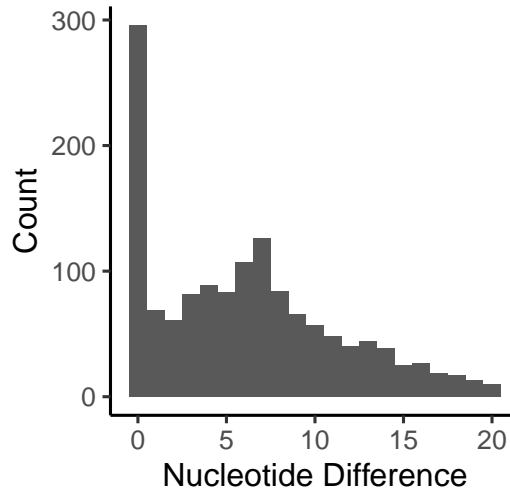
IGHV3-30-3*03

40 sequences assigned
No exact matches.



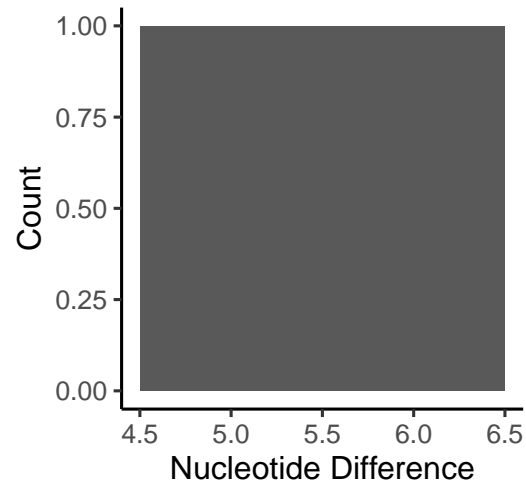
IGHV3-48*03

1464 sequences assigned
296 (20.2%) exact matches, in which:
190 unique CDR3
6 unique J



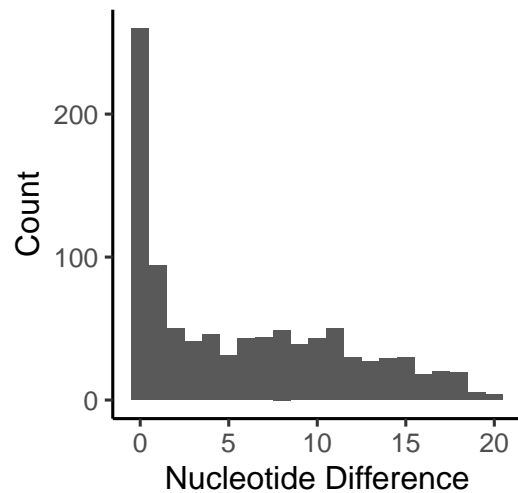
IGHV3-64*04

3 sequences assigned
No exact matches.



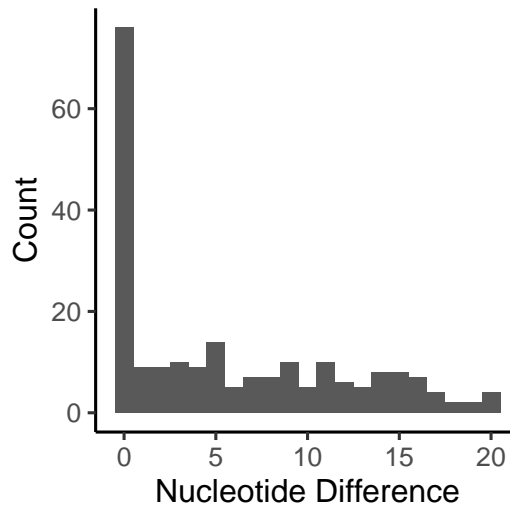
IGHV3-33*01

1050 sequences assigned
260 (24.8%) exact matches, in which:
165 unique CDR3
7 unique J



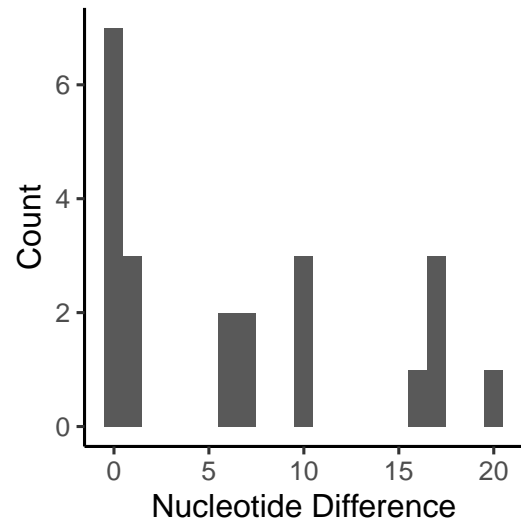
IGHV3-49*04

223 sequences assigned
76 (34.1%) exact matches, in which:
51 unique CDR3
7 unique J



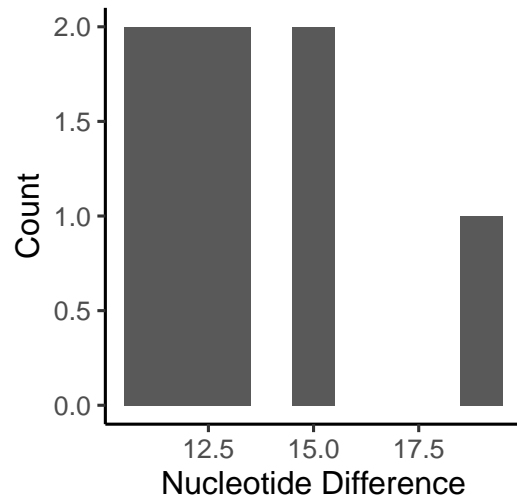
IGHV3-64*02_07

22 sequences assigned
7 (31.8%) exact matches, in which:
3 unique CDR3
3 unique J



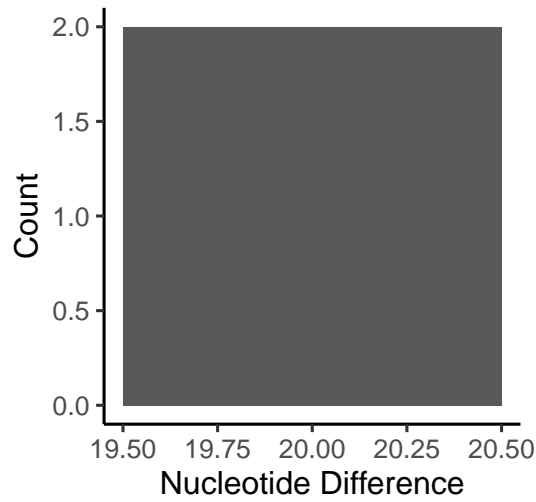
IGHV3-66*03

9 sequences assigned
No exact matches.



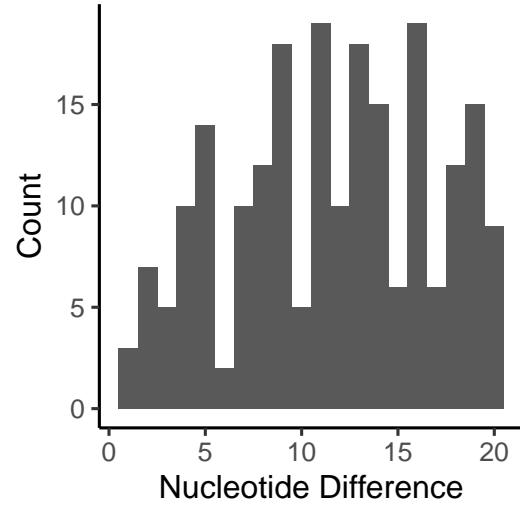
IGHV3-69-1*02

2 sequences assigned
No exact matches.



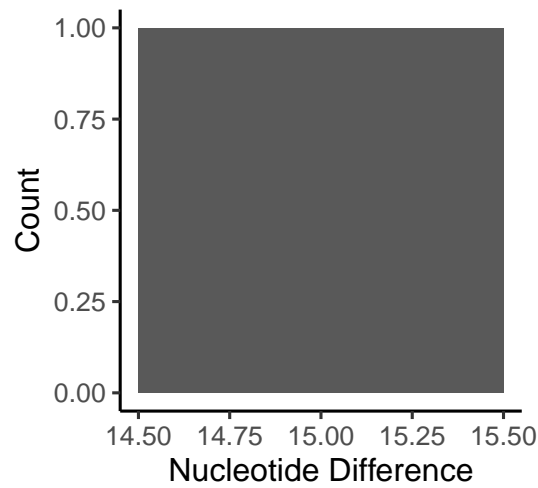
IGHV3-74*03

1068 sequences assigned
No exact matches.



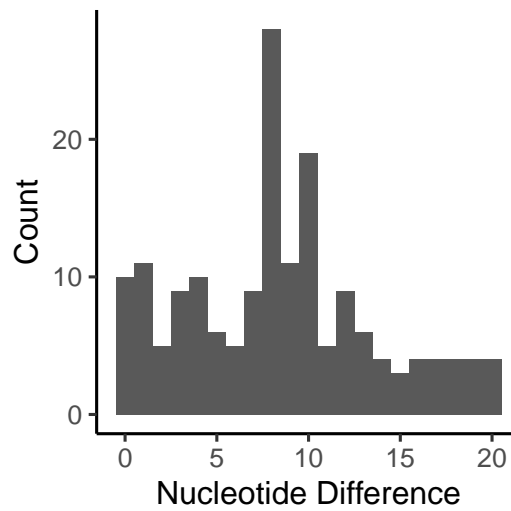
IGHV3-66*04

1 sequences assigned
No exact matches.



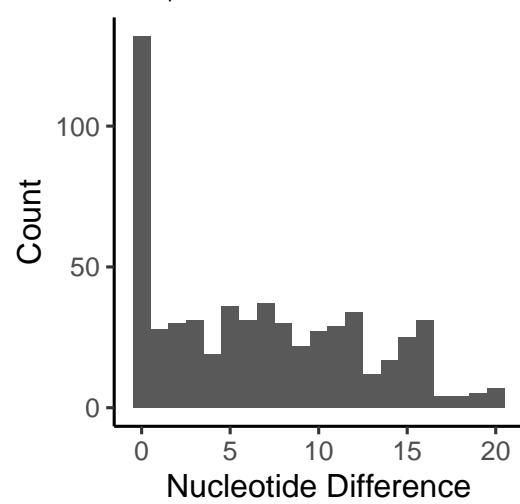
IGHV3-72*01

173 sequences assigned
10 (5.8%) exact matches, in which:
5 unique CDR3
3 unique J



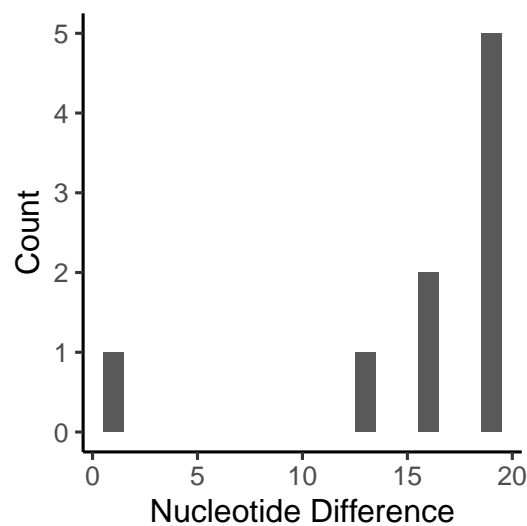
IGHV3-74*01_02

646 sequences assigned
132 (20.4%) exact matches, in which:
74 unique CDR3
6 unique J



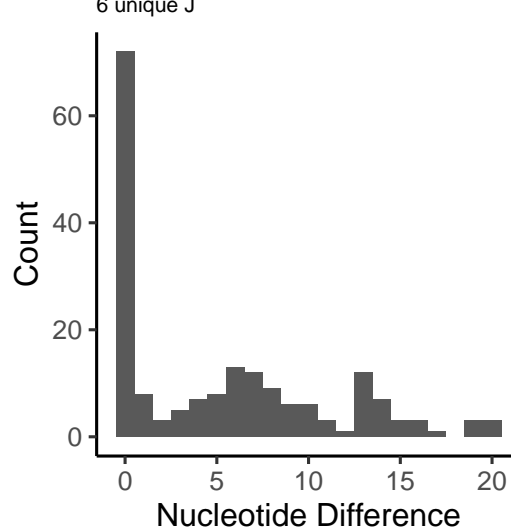
IGHV3-69-1*01

9 sequences assigned
No exact matches.



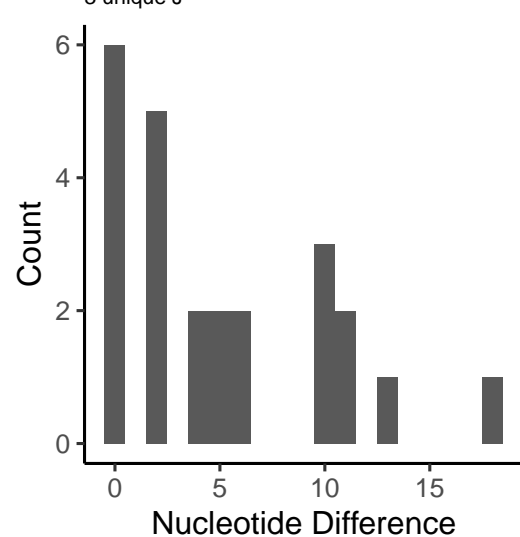
IGHV3-73*01_02

195 sequences assigned
72 (36.9%) exact matches, in which:
46 unique CDR3
6 unique J



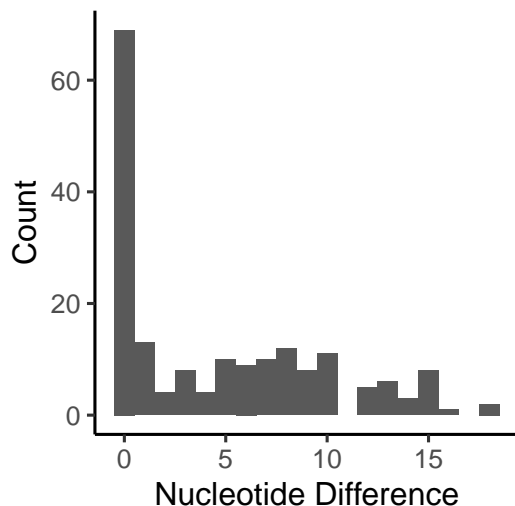
IGHV3-43D*04

24 sequences assigned
6 (25%) exact matches, in which:
4 unique CDR3
3 unique J



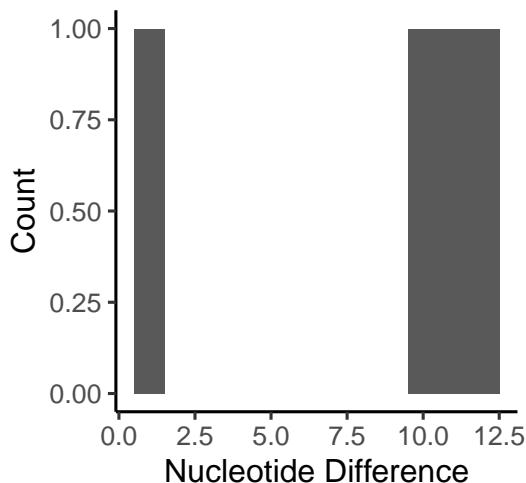
IGHV3-64D*06

190 sequences assigned
69 (36.3%) exact matches, in which:
31 unique CDR3
4 unique J



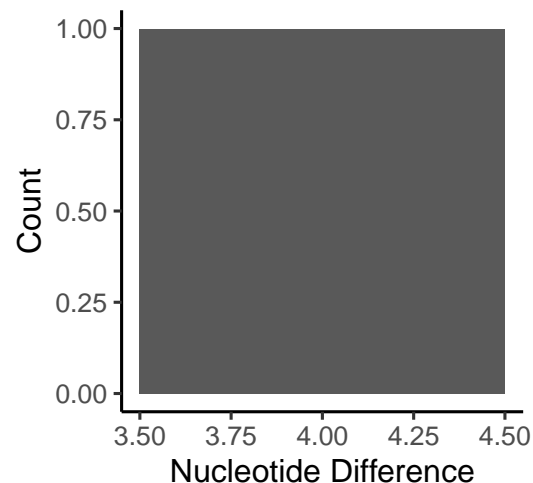
IGHV4-28*01_07

4 sequences assigned
No exact matches.



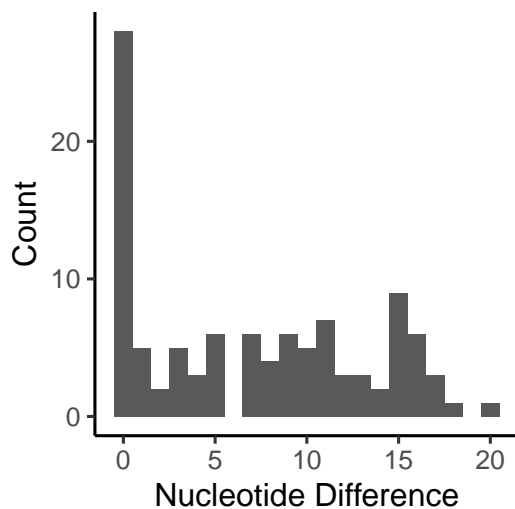
IGHV4-30-2*04

1 sequences assigned
No exact matches.



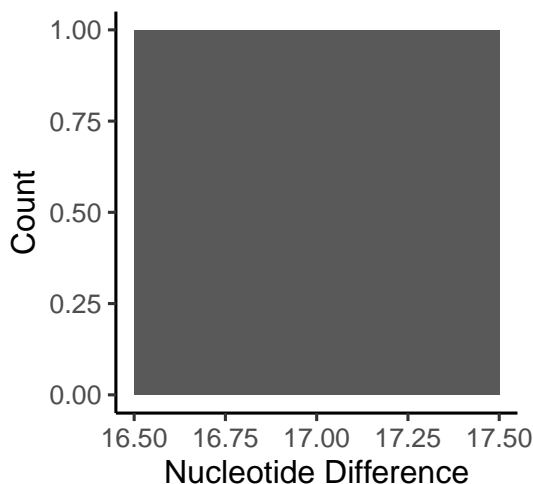
IGHV3-64D*08

115 sequences assigned
28 (24.3%) exact matches, in which:
15 unique CDR3
4 unique J



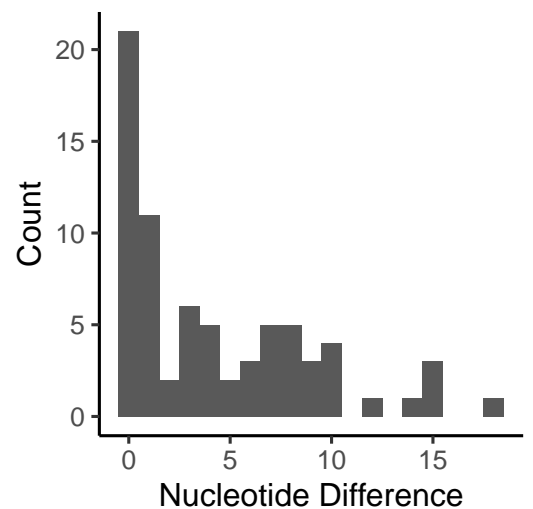
IGHV4-28*02_05

2 sequences assigned
No exact matches.



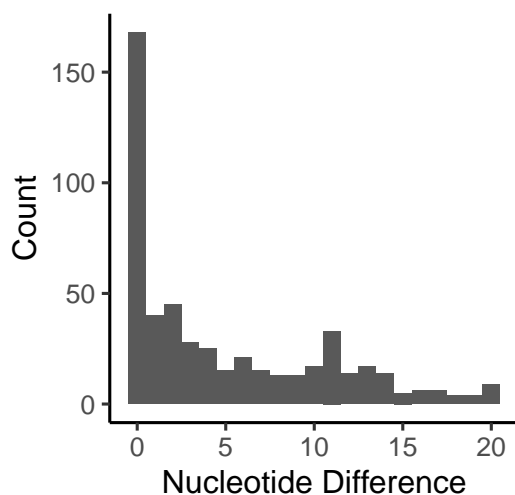
IGHV4-31*01

75 sequences assigned
21 (28%) exact matches, in which:
20 unique CDR3
4 unique J



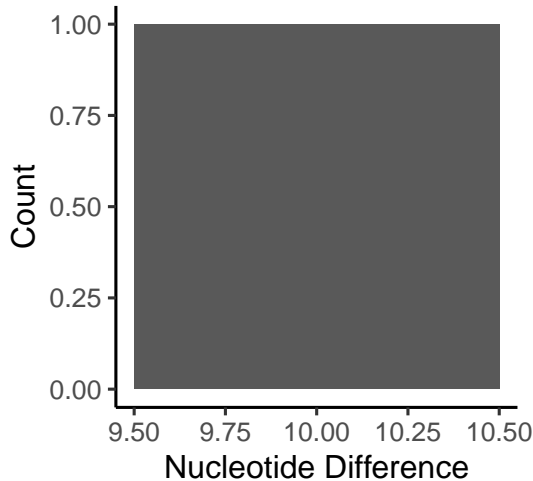
IGHV4-4*02_03

556 sequences assigned
168 (30.2%) exact matches, in which:
135 unique CDR3
7 unique J



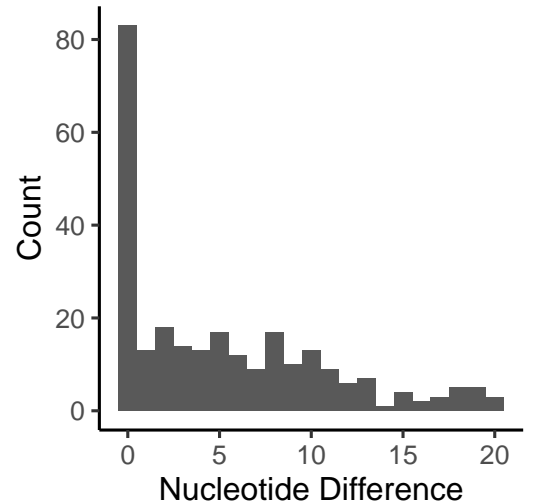
IGHV4-30-4*01

2 sequences assigned
No exact matches.



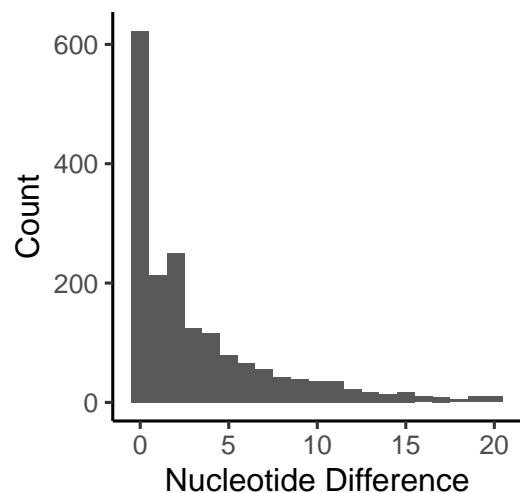
IGHV4-31*02

295 sequences assigned
83 (28.1%) exact matches, in which:
80 unique CDR3
6 unique J



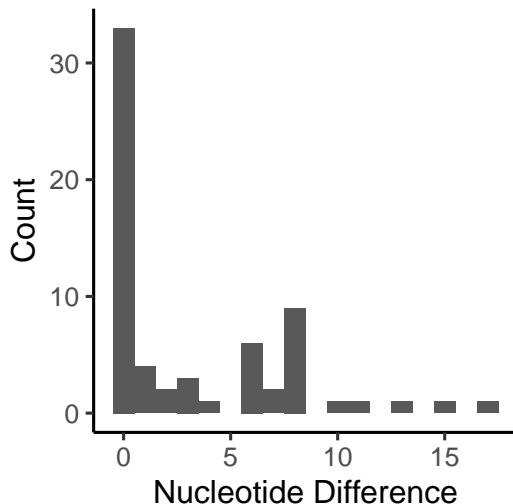
IGHV4-34*01_02

1985 sequences assigned
623 (31.4%) exact matches, in which:
460 unique CDR3
7 unique J



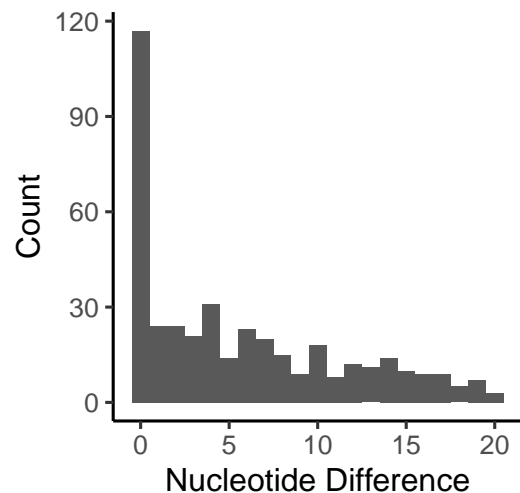
IGHV4-38-2*01_A291G_()

65 sequences assigned
33 (50.8%) exact matches, in which:
32 unique CDR3
7 unique J



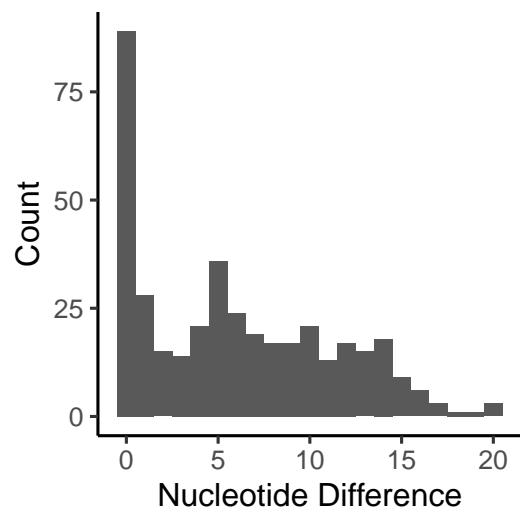
IGHV4-61*01

1098 sequences assigned
117 (10.7%) exact matches, in which:
112 unique CDR3
6 unique J



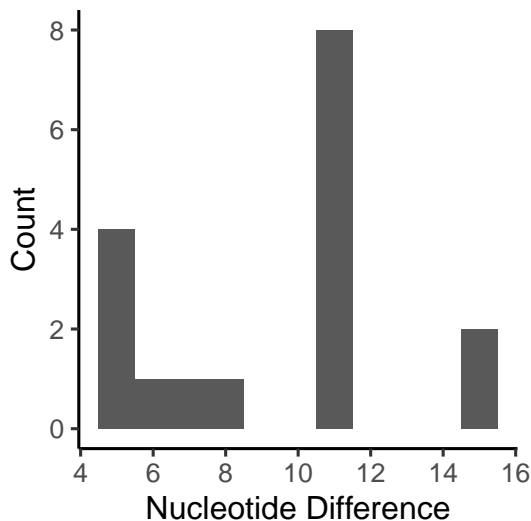
IGHV4-38-2*01

399 sequences assigned
89 (22.3%) exact matches, in which:
86 unique CDR3
7 unique J



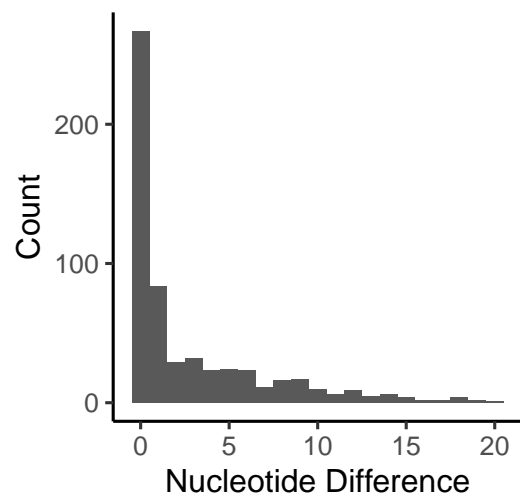
IGHV4-39*07

17 sequences assigned
No exact matches.



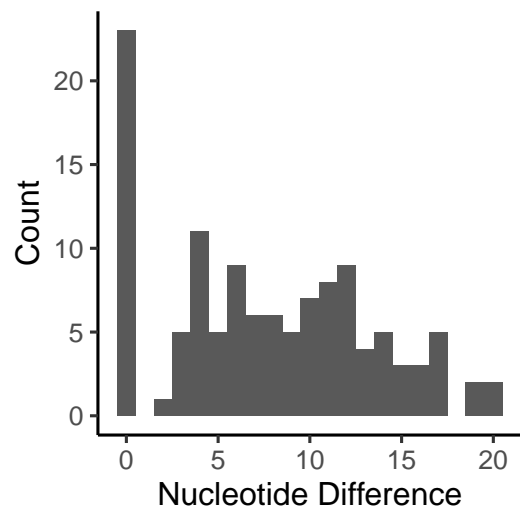
IGHV5-10-1*01_03

601 sequences assigned
267 (44.4%) exact matches, in which:
188 unique CDR3
7 unique J



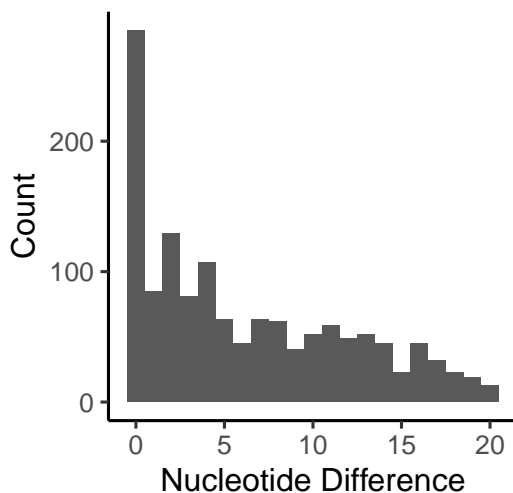
IGHV4-38-2*02

134 sequences assigned
23 (17.2%) exact matches, in which:
21 unique CDR3
5 unique J



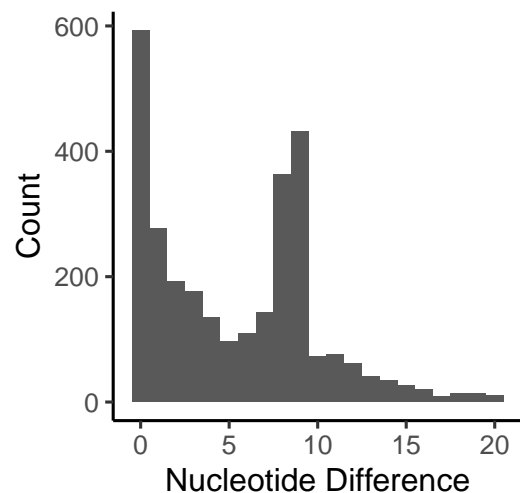
IGHV4-59*02_G88A

1544 sequences assigned
285 (18.5%) exact matches, in which:
274 unique CDR3
7 unique J



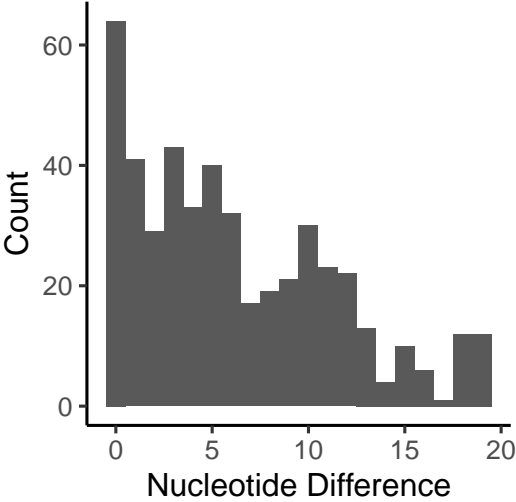
IGHV5-51*07_A128G

2943 sequences assigned
593 (20.1%) exact matches, in which:
383 unique CDR3
7 unique J



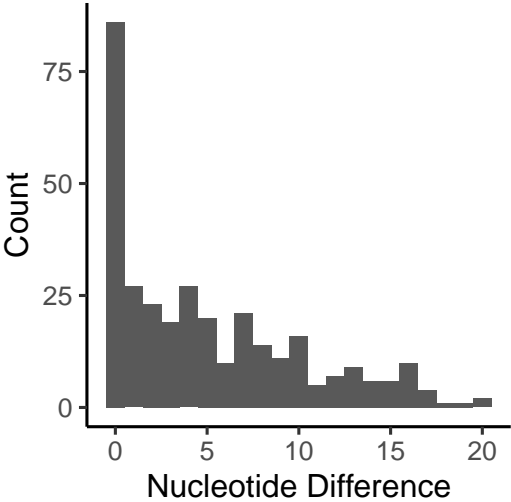
IGHV6-1*01_02

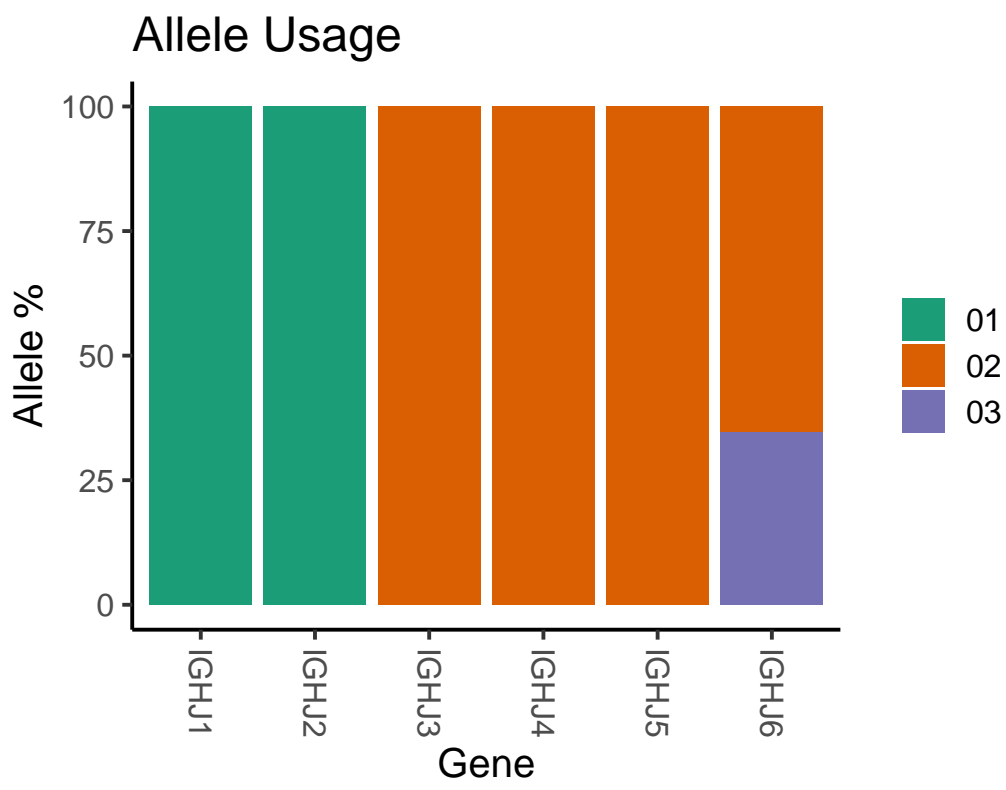
486 sequences assigned
64 (13.2%) exact matches, in which:
62 unique CDR3
6 unique J



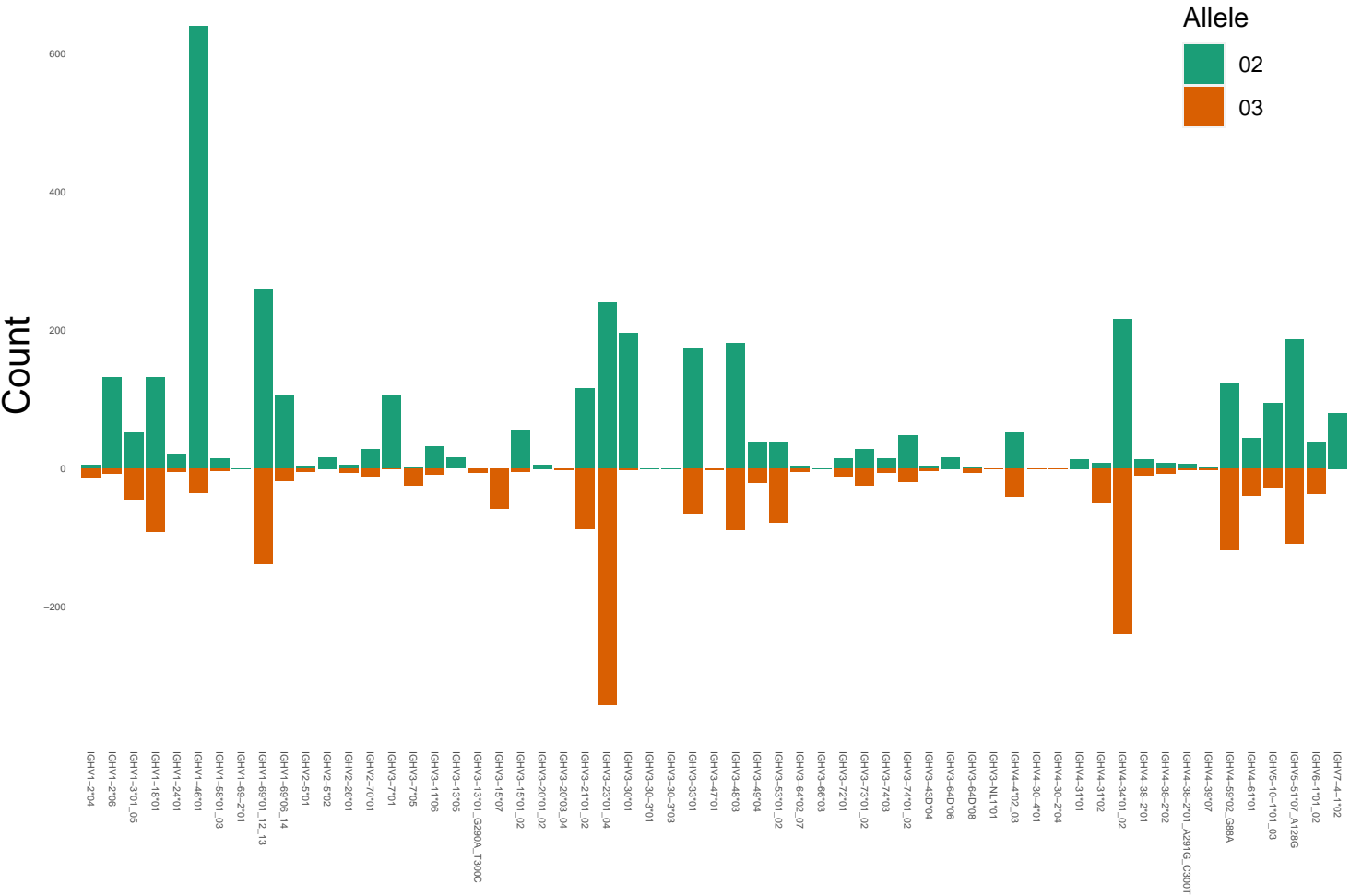
IGHV7-4-1*02

333 sequences assigned
86 (25.8%) exact matches, in which:
83 unique CDR3
6 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.