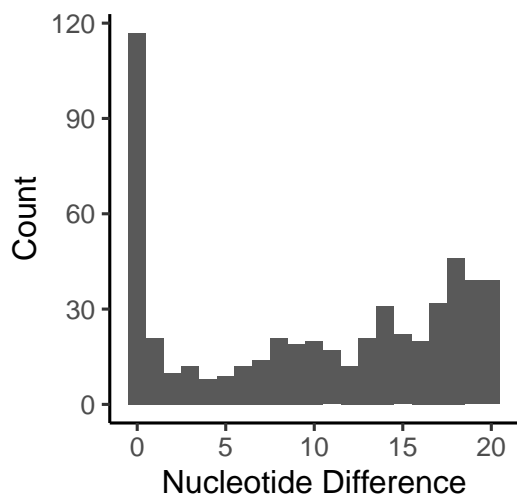


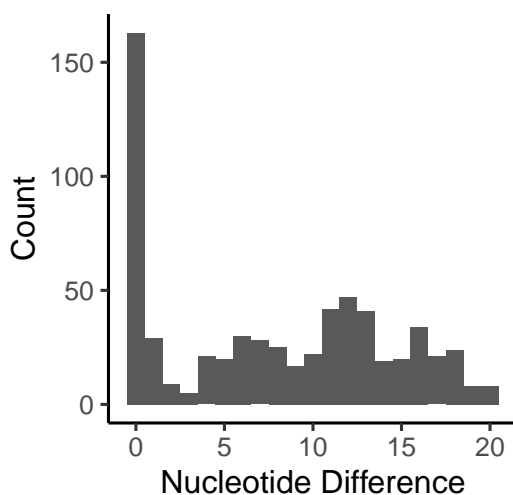
IGHV1-2*02

1011 sequences assigned
117 (11.6%) exact matches, in which:
117 unique CDR3
6 unique J



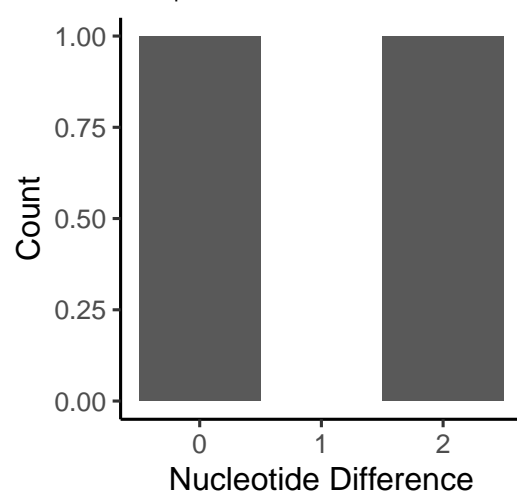
IGHV1-8*01

742 sequences assigned
163 (22%) exact matches, in which:
160 unique CDR3
7 unique J



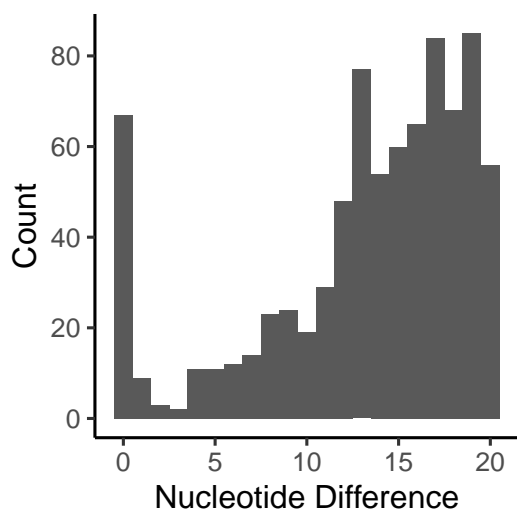
IGHV1-45*02

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



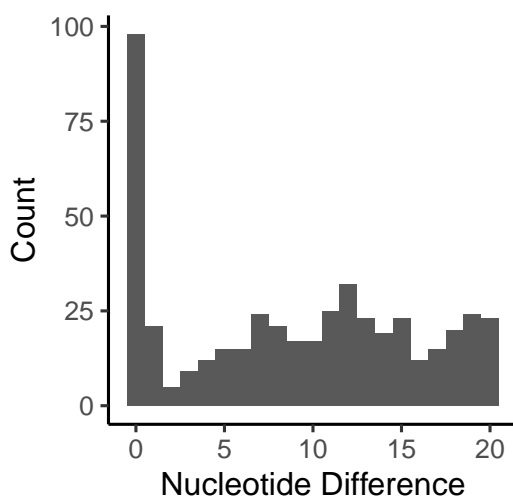
IGHV1-2*06

1384 sequences assigned
67 (4.8%) exact matches, in which:
67 unique CDR3
5 unique J



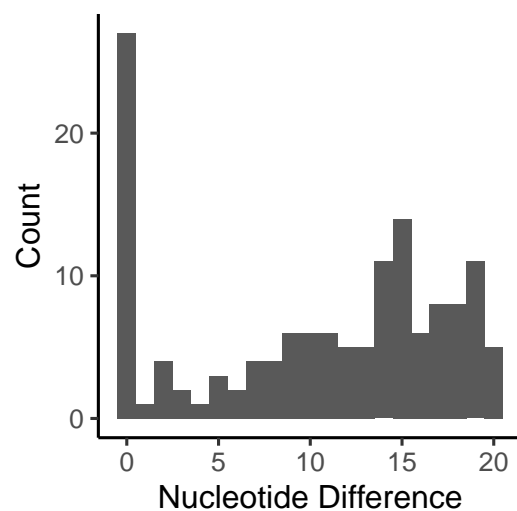
IGHV1-18*01

791 sequences assigned
98 (12.4%) exact matches, in which:
98 unique CDR3
6 unique J



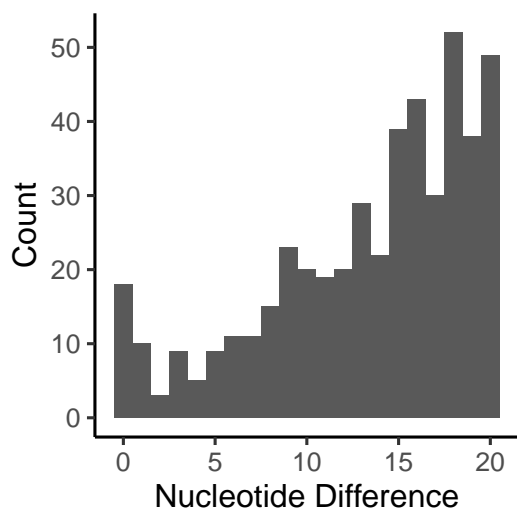
IGHV1-46*01

230 sequences assigned
27 (11.7%) exact matches, in which:
27 unique CDR3
4 unique J



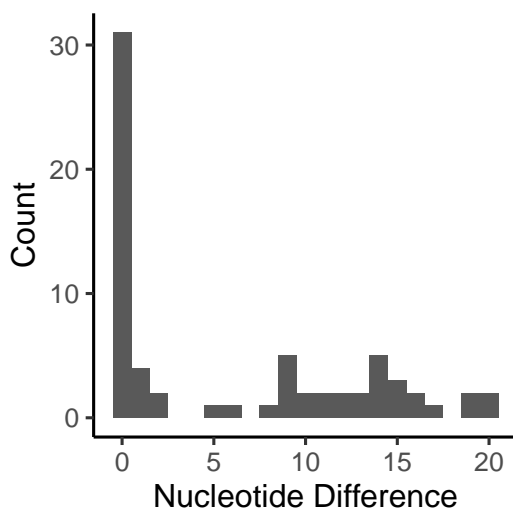
IGHV1-3*01

800 sequences assigned
18 (2.2%) exact matches, in which:
18 unique CDR3
4 unique J



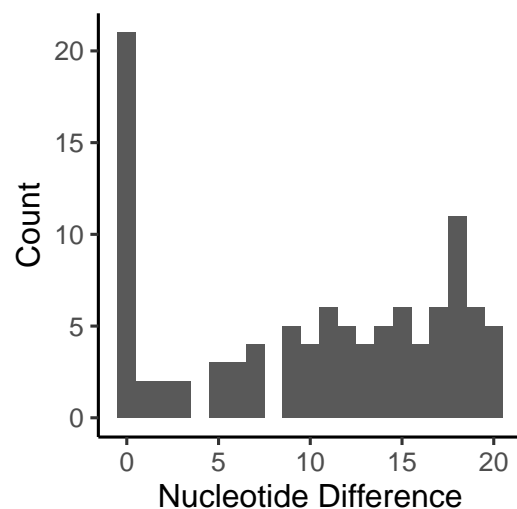
IGHV1-24*01

80 sequences assigned
31 (38.8%) exact matches, in which:
31 unique CDR3
5 unique J



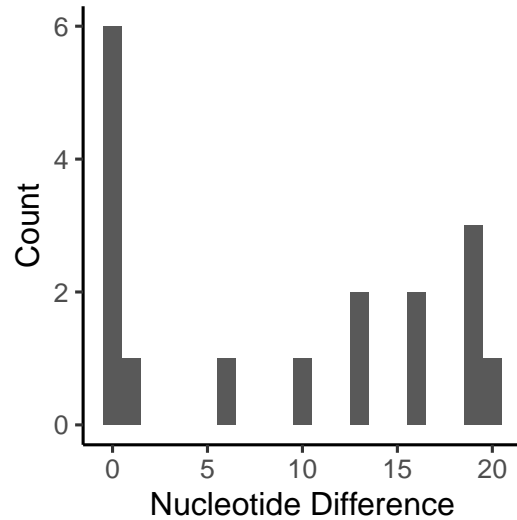
IGHV1-46*03

180 sequences assigned
21 (11.7%) exact matches, in which:
21 unique CDR3
4 unique J



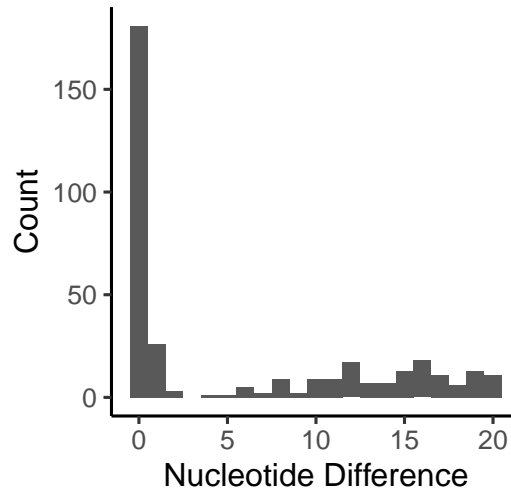
IGHV1-58*01

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



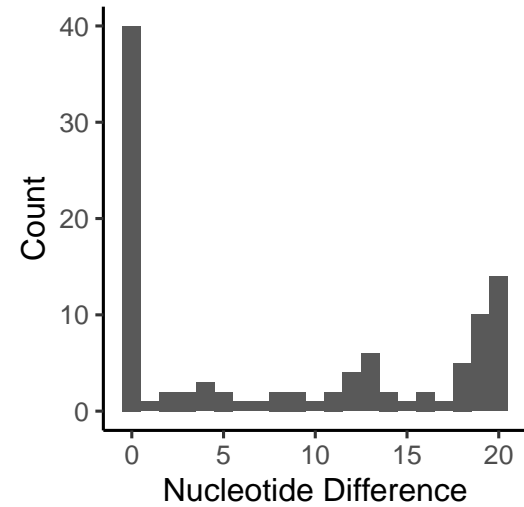
IGHV1-69*06

645 sequences assigned
181 (28.1%) exact matches, in which:
181 unique CDR3
7 unique J



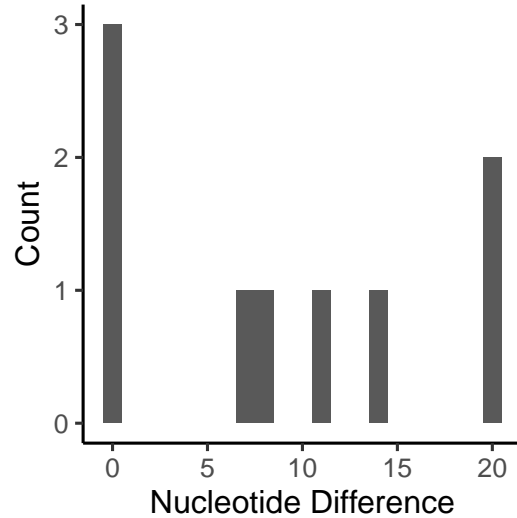
IGHV2-26*01

144 sequences assigned
40 (27.8%) exact matches, in which:
40 unique CDR3
5 unique J



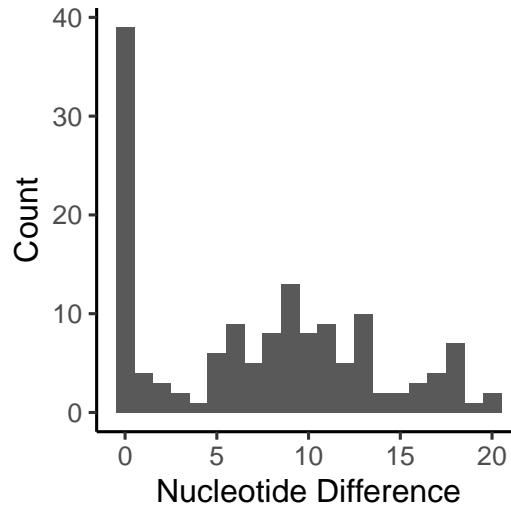
IGHV1-58*02

11 sequences assigned
3 (27.3%) exact matches, in which:
3 unique CDR3
2 unique J



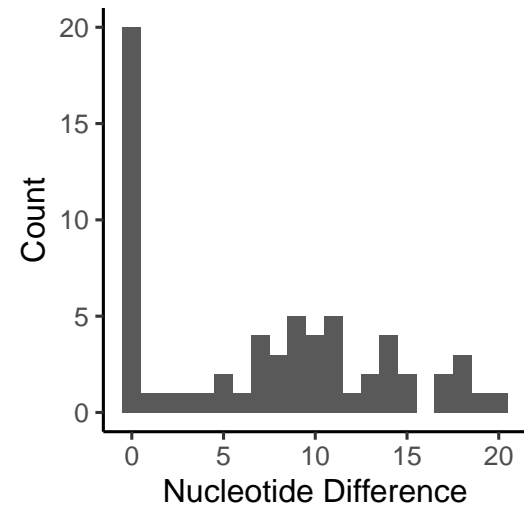
IGHV2-5*01

188 sequences assigned
39 (20.7%) exact matches, in which:
39 unique CDR3
4 unique J



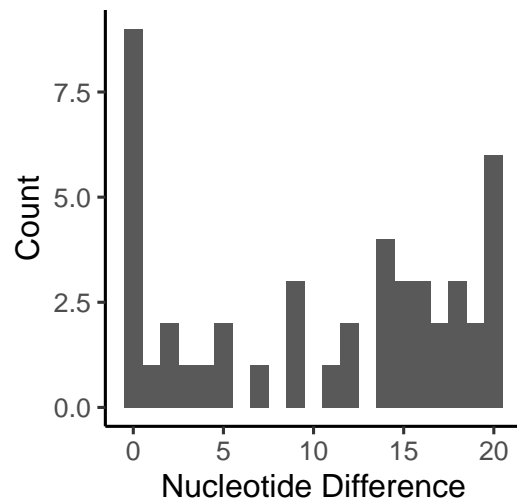
IGHV2-70*01

88 sequences assigned
20 (22.7%) exact matches, in which:
20 unique CDR3
5 unique J



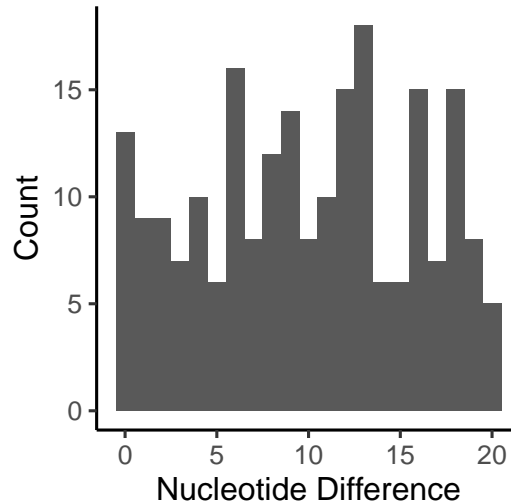
IGHV1-69-2*01

83 sequences assigned
9 (10.8%) exact matches, in which:
9 unique CDR3
5 unique J



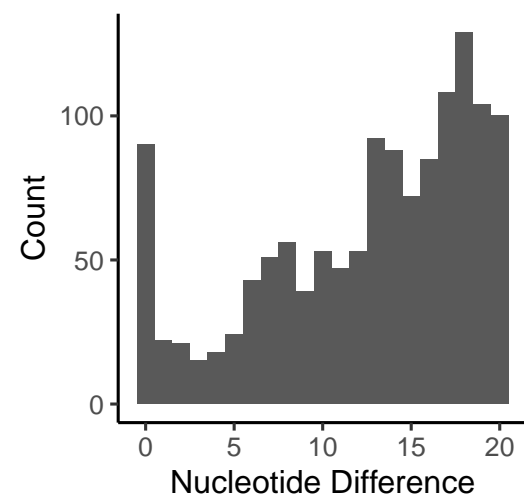
IGHV2-5*02

309 sequences assigned
13 (4.2%) exact matches, in which:
13 unique CDR3
4 unique J



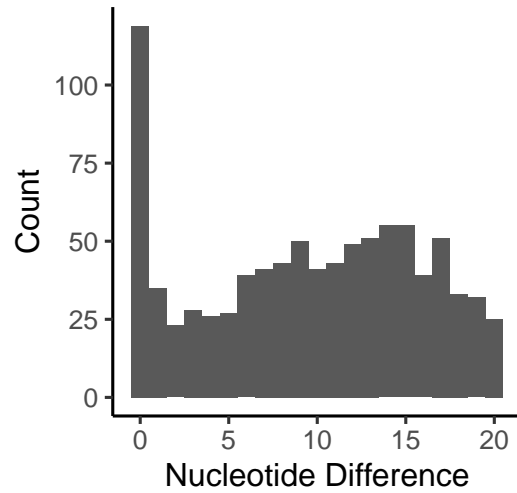
IGHV3-7*01

2777 sequences assigned
90 (3.2%) exact matches, in which:
90 unique CDR3
6 unique J



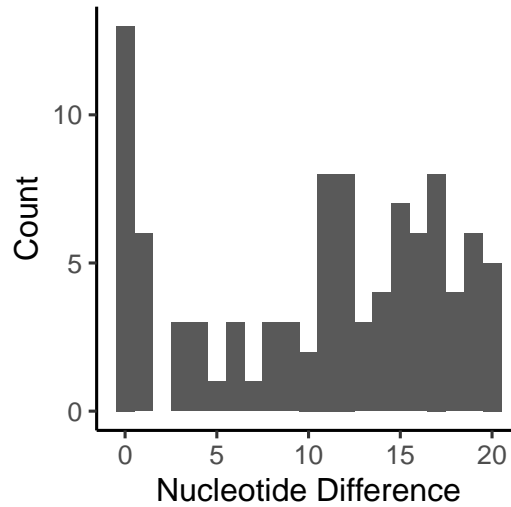
IGHV3-9*01

1406 sequences assigned
119 (8.5%) exact matches, in which:
115 unique CDR3
6 unique J



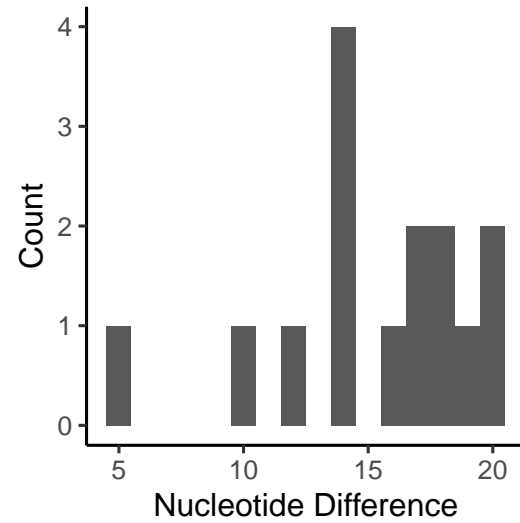
IGHV3-13*01

154 sequences assigned
13 (8.4%) exact matches, in which:
13 unique CDR3
6 unique J



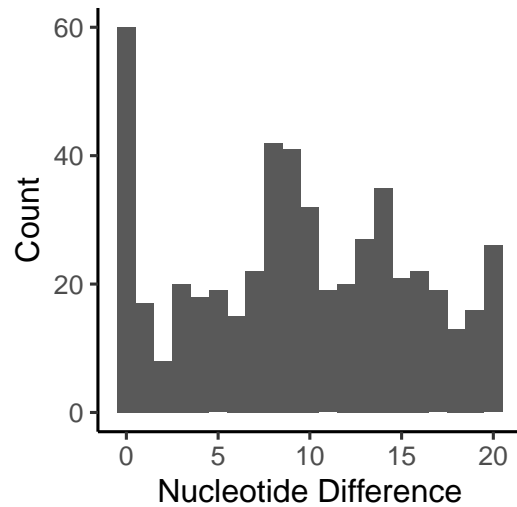
IGHV3-20*04

38 sequences assigned
No exact matches.



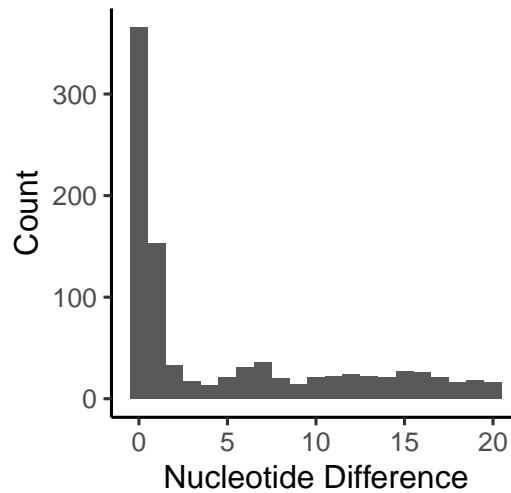
IGHV3-11*01

903 sequences assigned
60 (6.6%) exact matches, in which:
60 unique CDR3
7 unique J



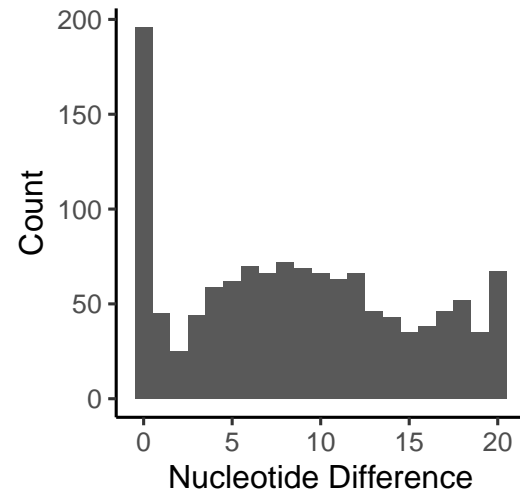
IGHV3-15*01

1244 sequences assigned
366 (29.4%) exact matches, in which:
86 unique CDR3
7 unique J



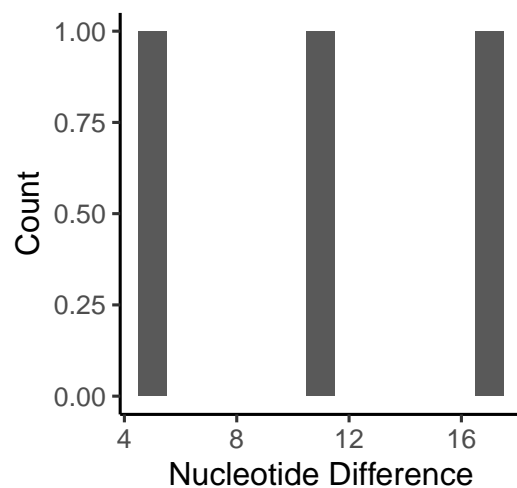
IGHV3-21*01

1697 sequences assigned
196 (11.5%) exact matches, in which:
195 unique CDR3
7 unique J



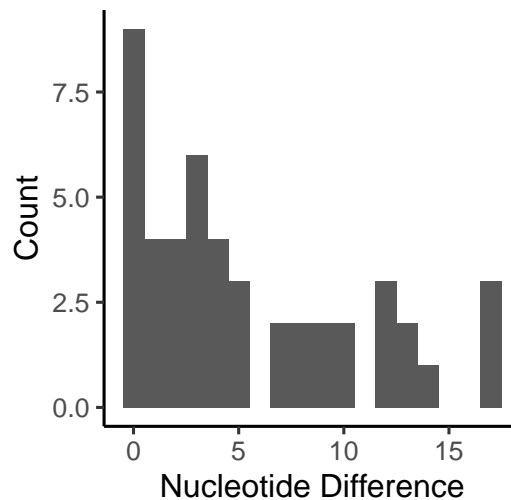
IGHV3-11*06

4 sequences assigned
No exact matches.



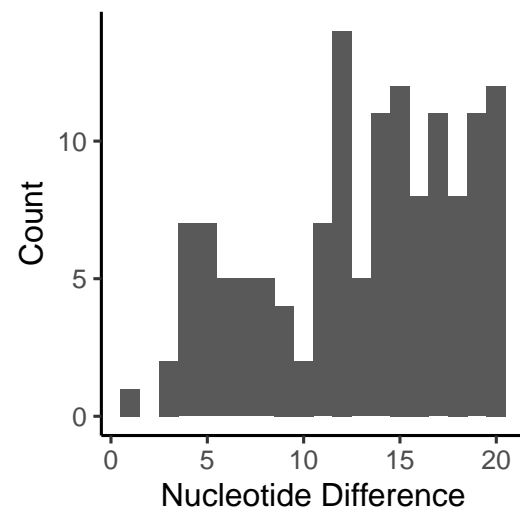
IGHV3-20*01

63 sequences assigned
9 (14.3%) exact matches, in which:
9 unique CDR3
5 unique J



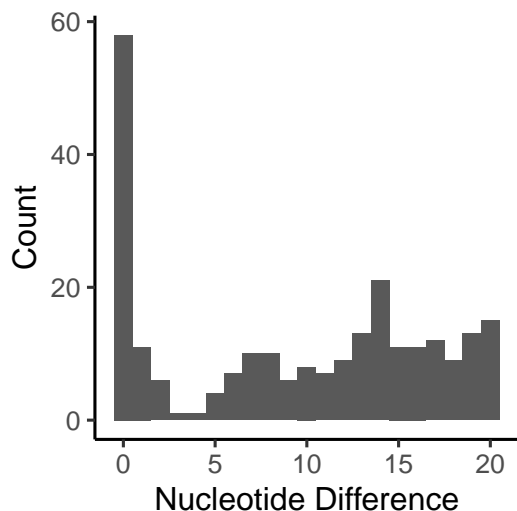
IGHV3-21*02

366 sequences assigned
No exact matches.



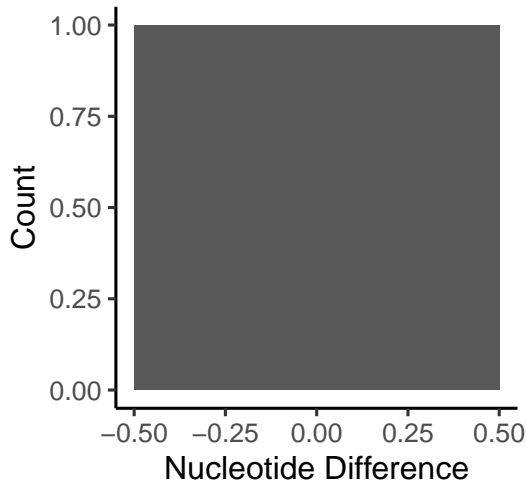
IGHV3-30-3*01

400 sequences assigned
58 (14.5%) exact matches, in which:
58 unique CDR3
7 unique J



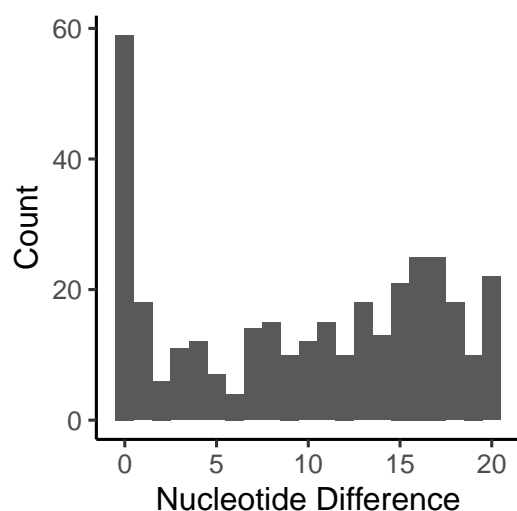
IGHV3-35*01

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



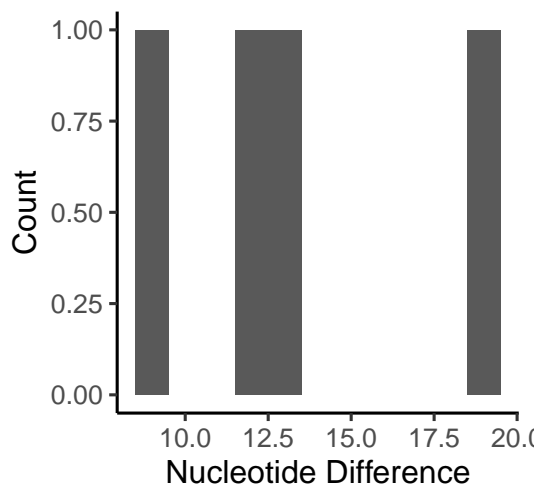
IGHV3-48*03

520 sequences assigned
59 (11.3%) exact matches, in which:
59 unique CDR3
6 unique J



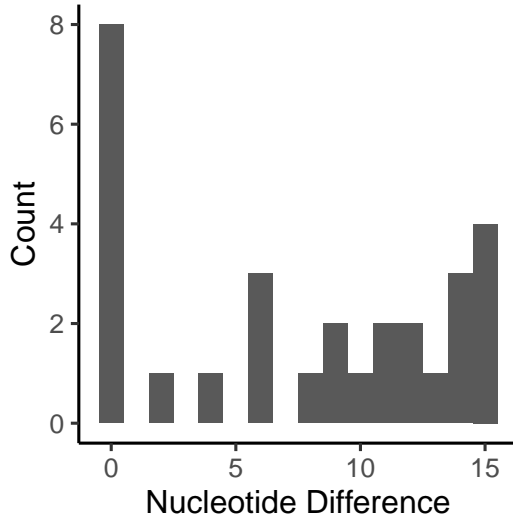
IGHV3-30-3*02

14 sequences assigned
No exact matches.



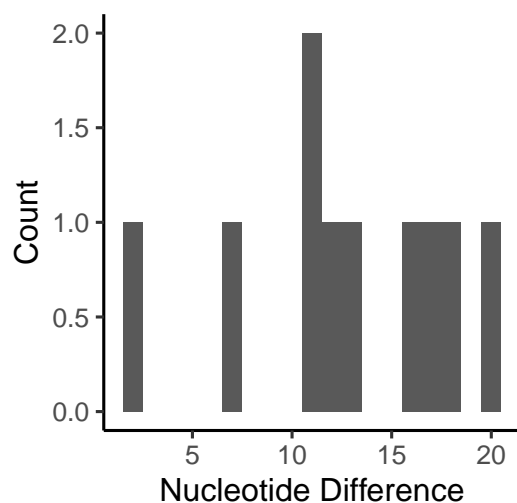
IGHV3-43*01

44 sequences assigned
8 (18.2%) exact matches, in which:
7 unique CDR3
3 unique J



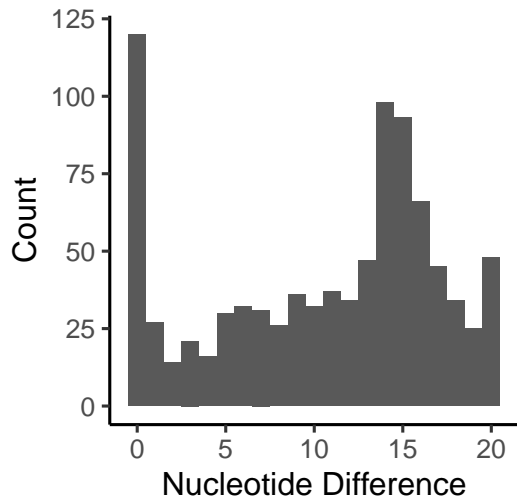
IGHV3-48*04

21 sequences assigned
No exact matches.



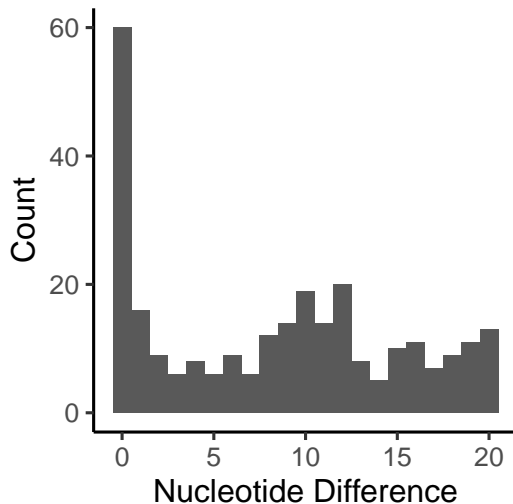
IGHV3-33*01

1277 sequences assigned
120 (9.4%) exact matches, in which:
117 unique CDR3
7 unique J



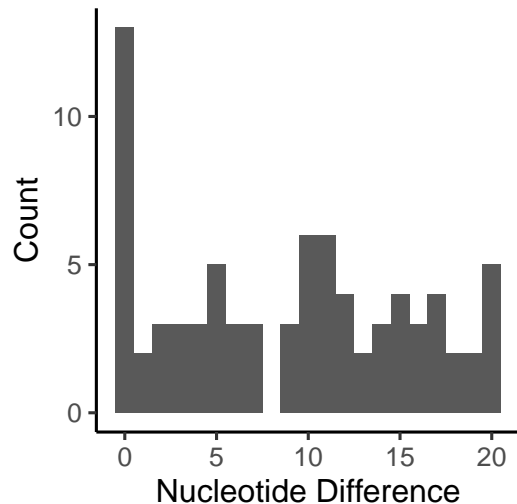
IGHV3-48*01

396 sequences assigned
60 (15.2%) exact matches, in which:
60 unique CDR3
4 unique J



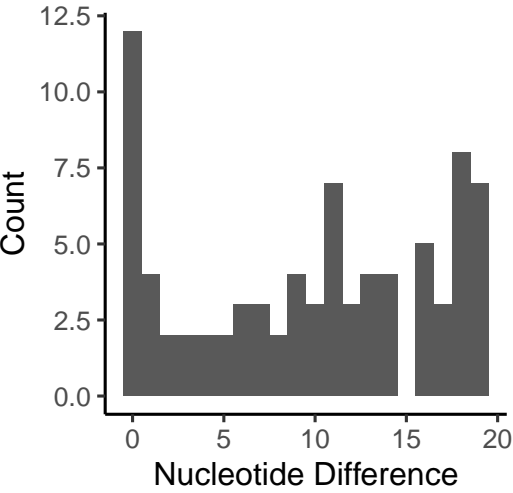
IGHV3-49*03

143 sequences assigned
13 (9.1%) exact matches, in which:
13 unique CDR3
3 unique J



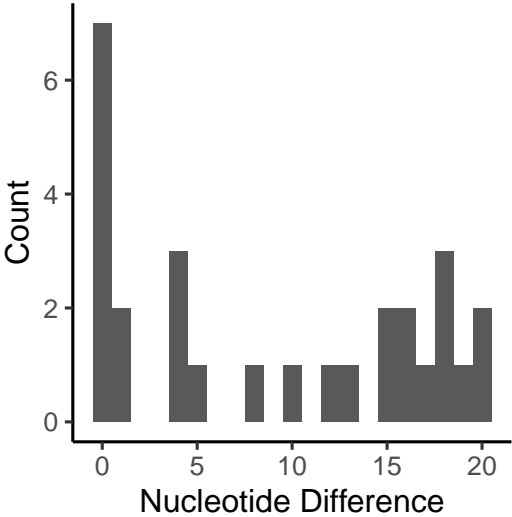
IGHV3-49*04

149 sequences assigned
12 (8.1%) exact matches, in which:
12 unique CDR3
4 unique J



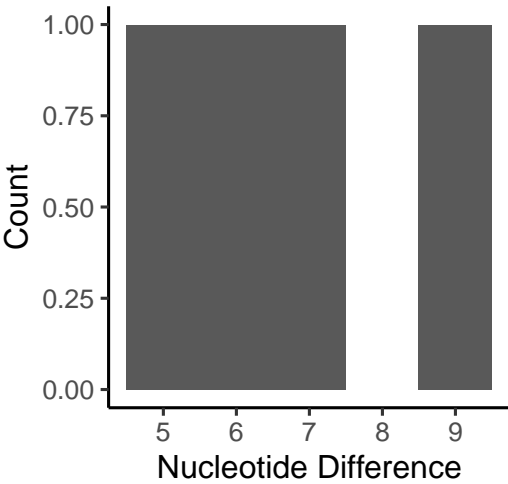
IGHV3-64*01

46 sequences assigned
7 (15.2%) exact matches, in which:
7 unique CDR3
3 unique J



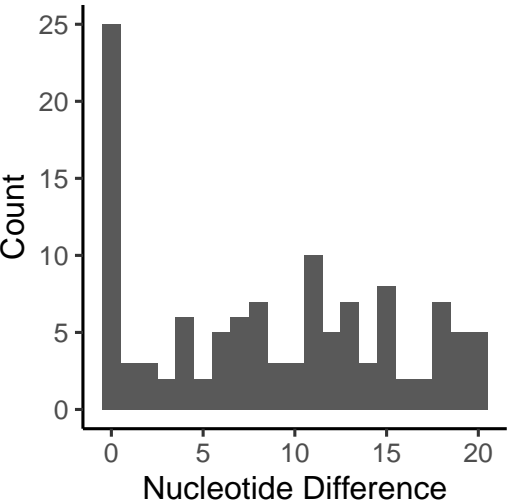
IGHV3-66*03

4 sequences assigned
No exact matches.



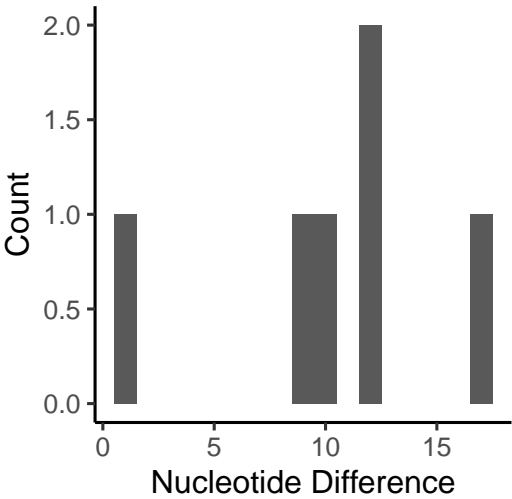
IGHV3-53*01

276 sequences assigned
25 (9.1%) exact matches, in which:
25 unique CDR3
5 unique J



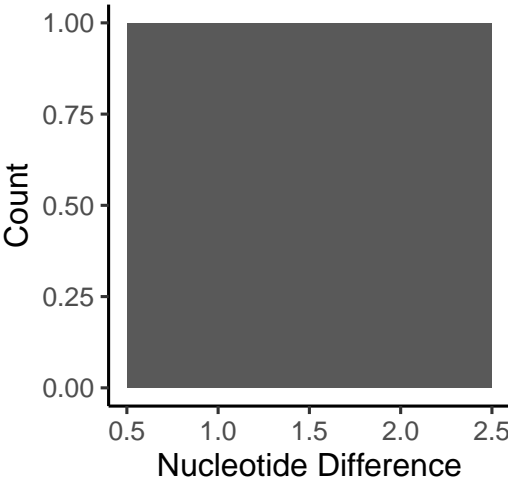
IGHV3-64*07

17 sequences assigned
No exact matches.



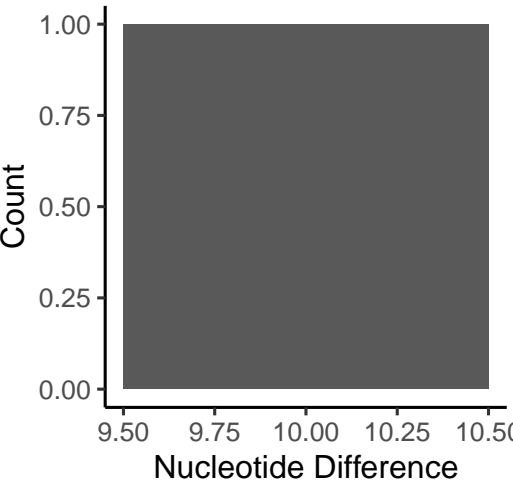
IGHV3-66*04

2 sequences assigned
No exact matches.



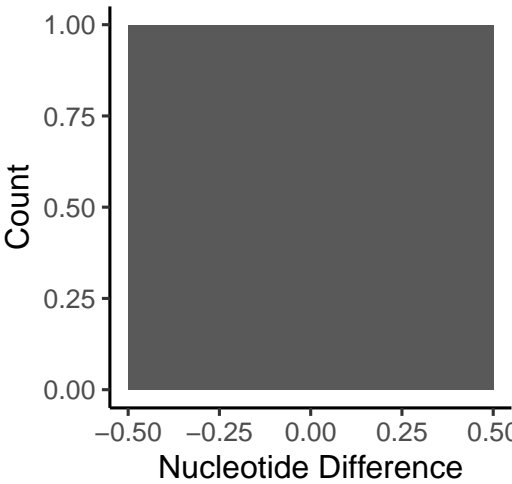
IGHV3-62*03

1 sequences assigned
No exact matches.



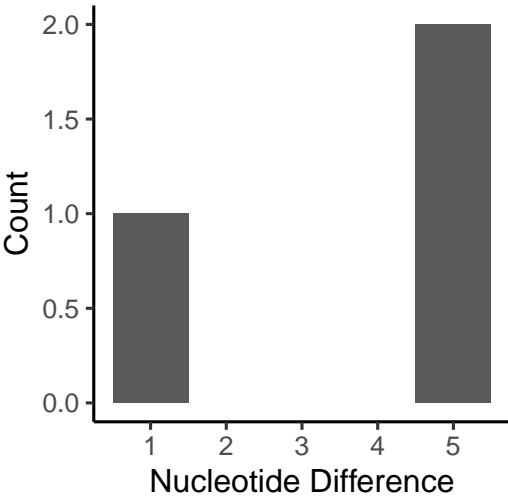
IGHV3-66*01

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



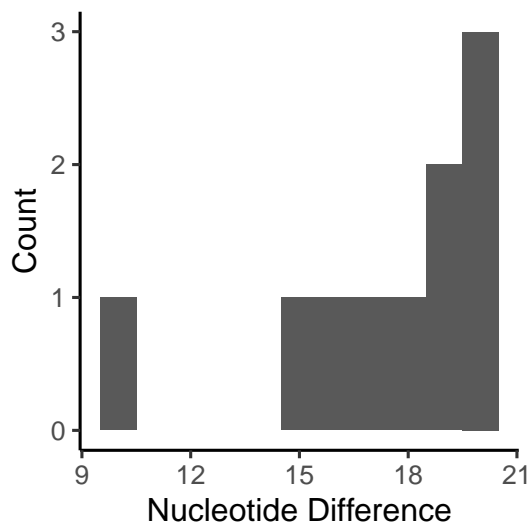
IGHV3-69-1*01

5 sequences assigned
No exact matches.



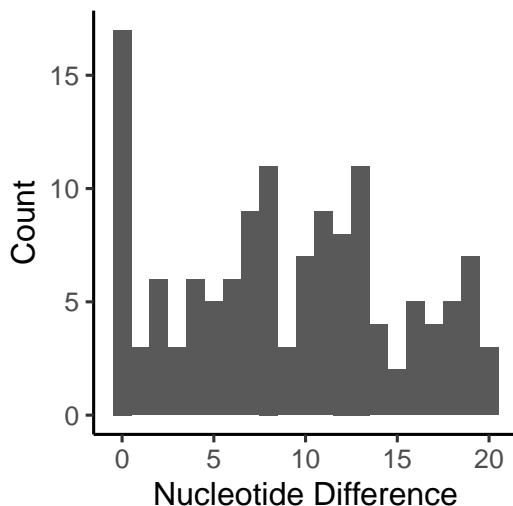
IGHV3-69-1*02

41 sequences assigned
No exact matches.



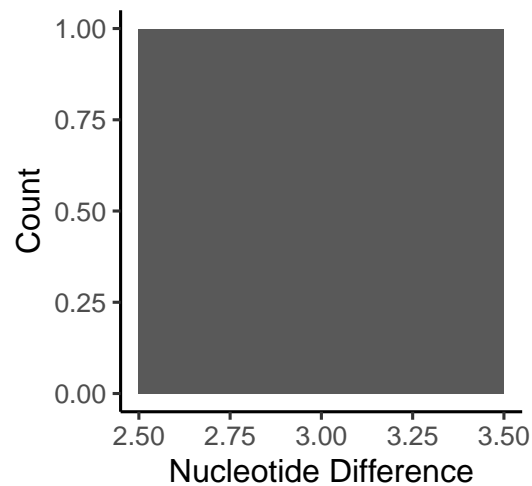
IGHV3-73*02

235 sequences assigned
17 (7.2%) exact matches, in which:
17 unique CDR3
5 unique J



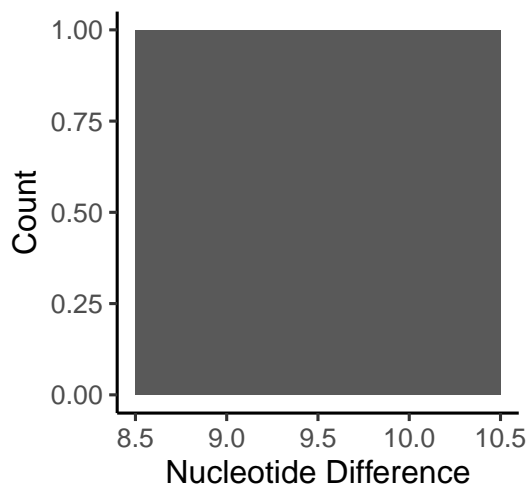
IGHV3-64D*06

1 sequences assigned
No exact matches.



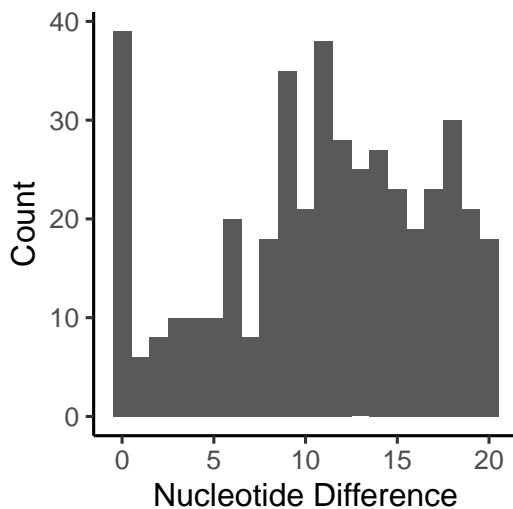
IGHV3-71*01

2 sequences assigned
No exact matches.



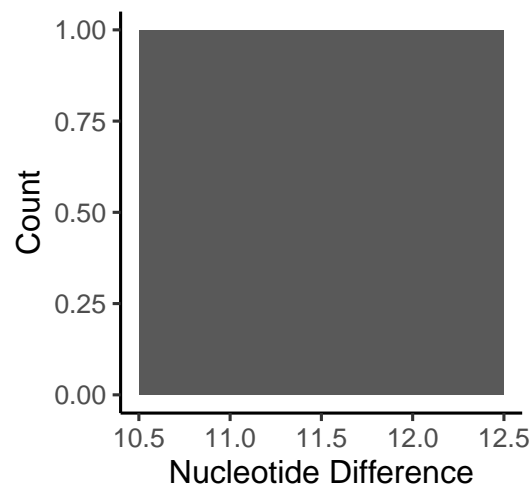
IGHV3-74*01

659 sequences assigned
39 (5.9%) exact matches, in which:
38 unique CDR3
5 unique J



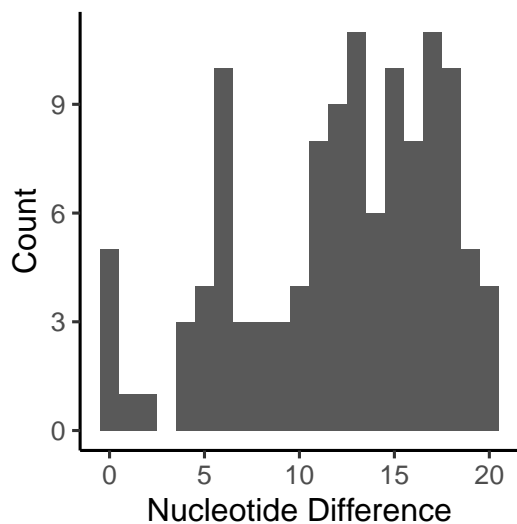
IGHV3-NL1*01

2 sequences assigned
No exact matches.



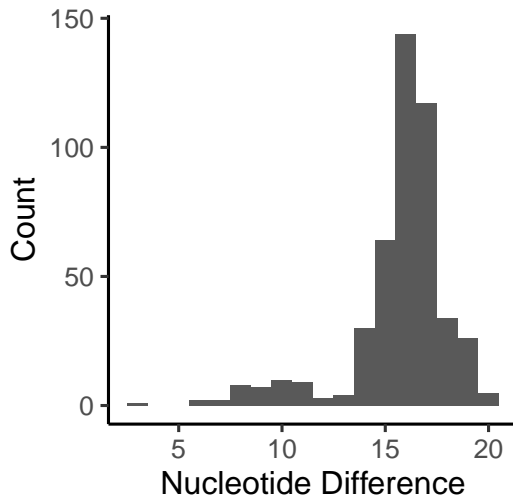
IGHV3-72*01

178 sequences assigned
5 (2.8%) exact matches, in which:
5 unique CDR3
3 unique J



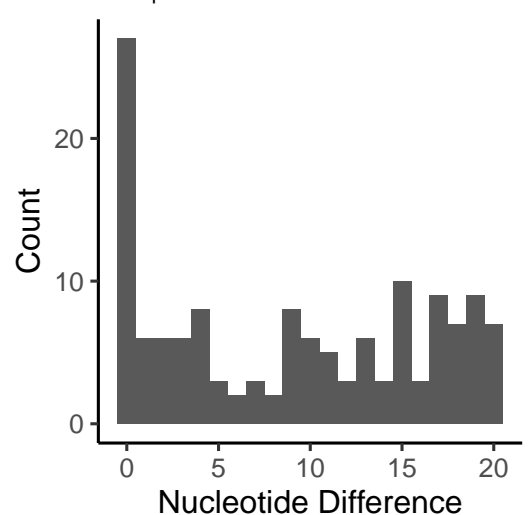
IGHV3-74*03

521 sequences assigned
No exact matches.



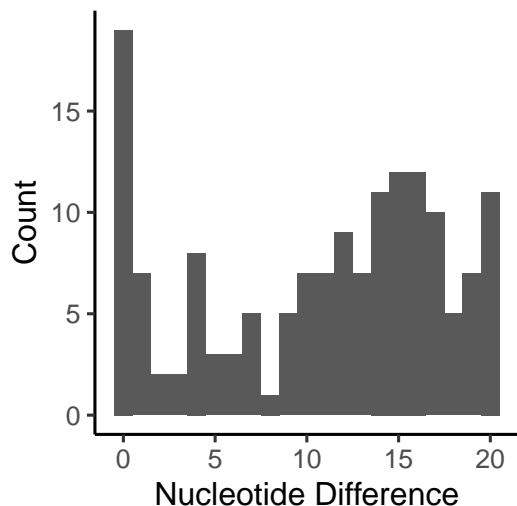
IGHV4-4*02

251 sequences assigned
27 (10.8%) exact matches, in which:
27 unique CDR3
4 unique J



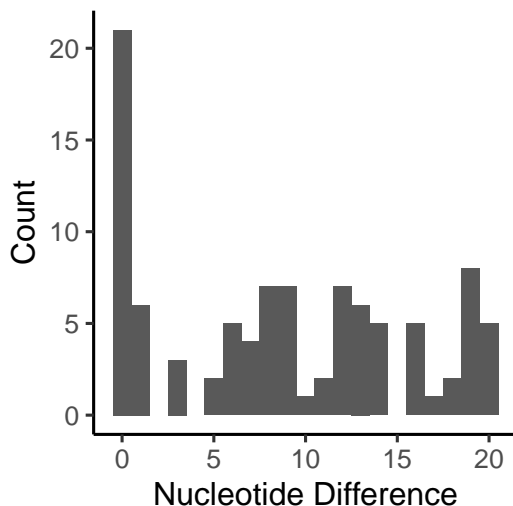
IGHV4-4*07

275 sequences assigned
19 (6.9%) exact matches, in which:
19 unique CDR3
4 unique J



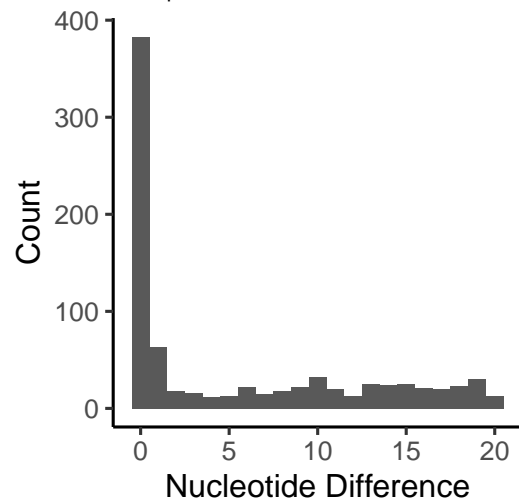
IGHV4-30-4*01

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



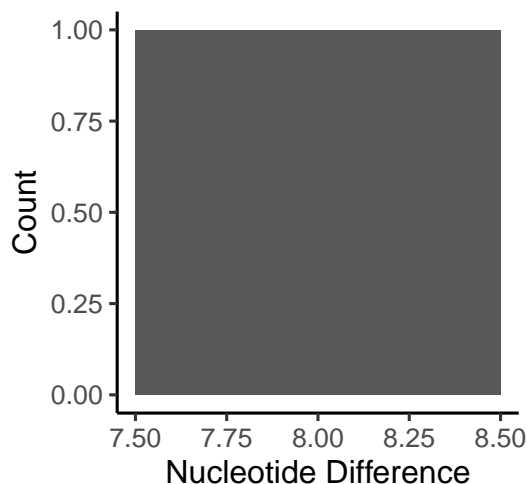
IGHV4-34*01

1232 sequences assigned
383 (31.1%) exact matches, in which:
382 unique CDR3
7 unique J



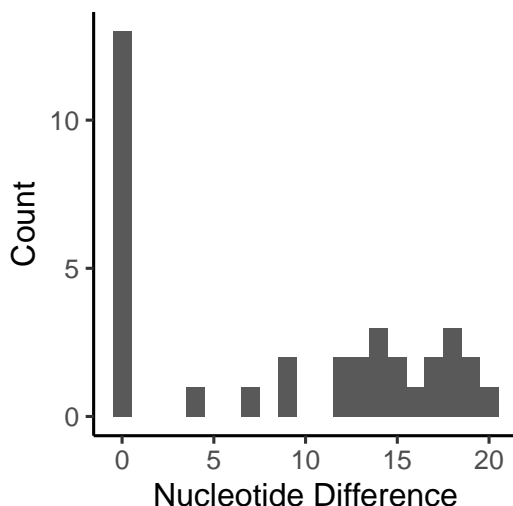
IGHV4-28*01

2 sequences assigned
No exact matches.



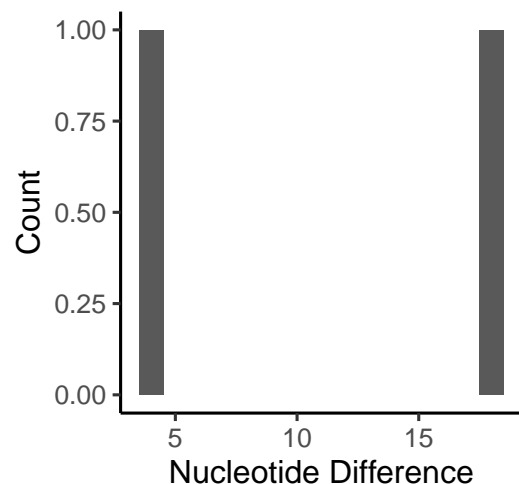
IGHV4-30-2*01

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



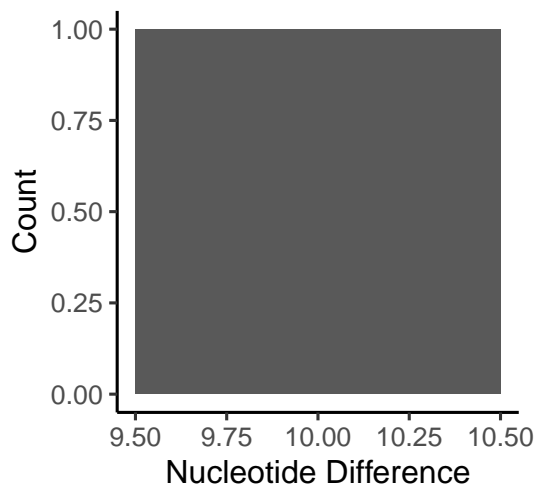
IGHV4-38-2*02

3 sequences assigned
No exact matches.



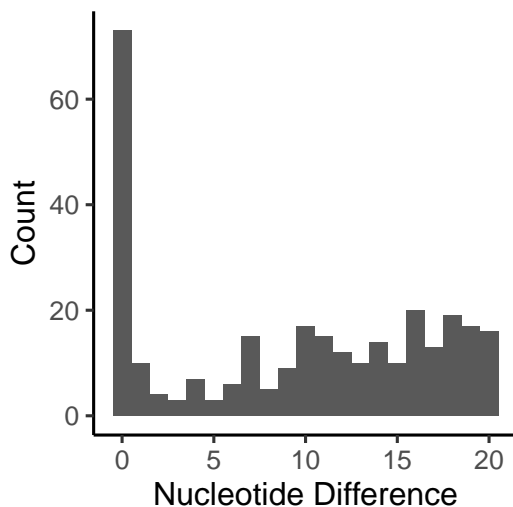
IGHV4-28*03

1 sequences assigned
No exact matches.



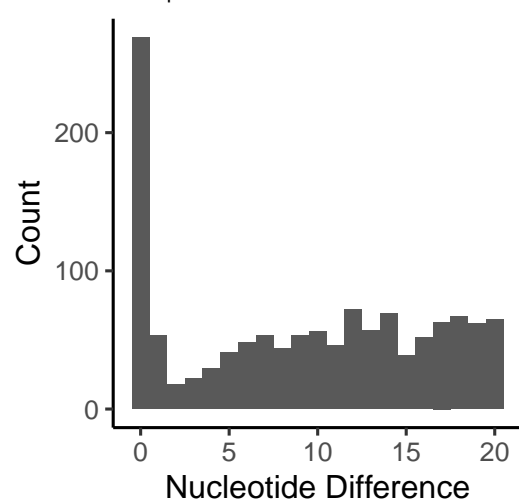
IGHV4-31*03

766 sequences assigned
73 (9.5%) exact matches, in which:
73 unique CDR3
6 unique J



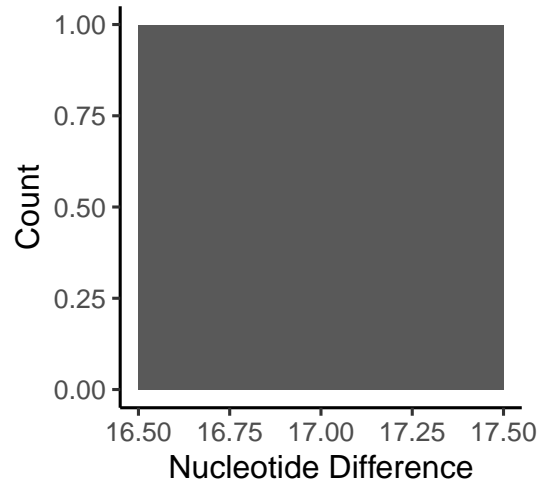
IGHV4-39*01

2424 sequences assigned
269 (11.1%) exact matches, in which:
268 unique CDR3
7 unique J



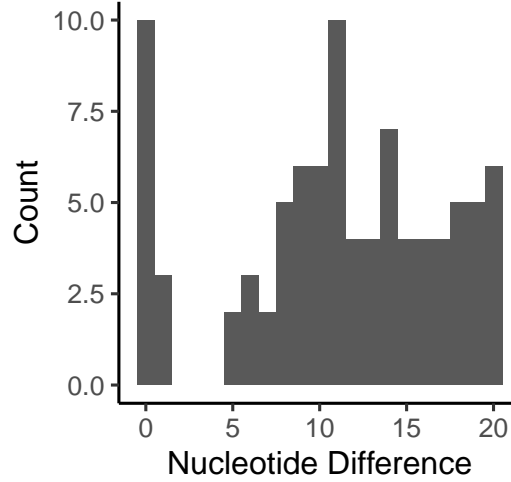
IGHV4-55*08

1 sequences assigned
No exact matches.



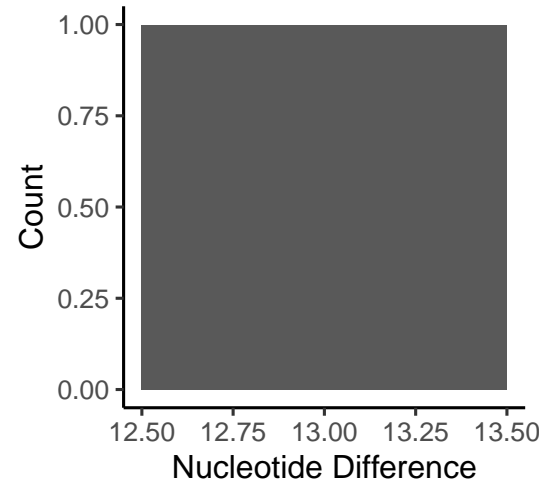
IGHV4-61*01

133 sequences assigned
10 (7.5%) exact matches, in which:
10 unique CDR3
4 unique J



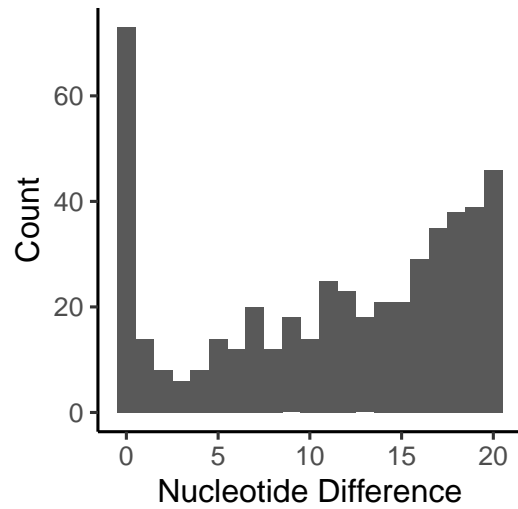
IGHV4/OR15-8*02

3 sequences assigned
No exact matches.



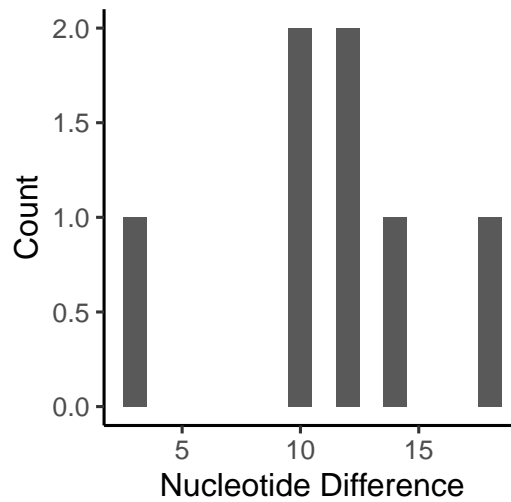
IGHV4-59*01

836 sequences assigned
73 (8.7%) exact matches, in which:
73 unique CDR3
7 unique J



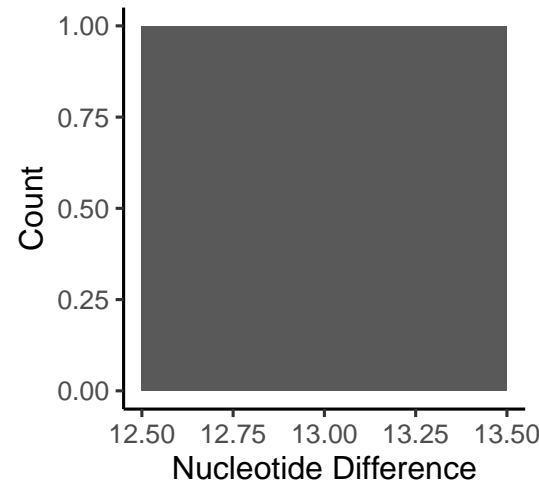
IGHV4-61*08

16 sequences assigned
No exact matches.



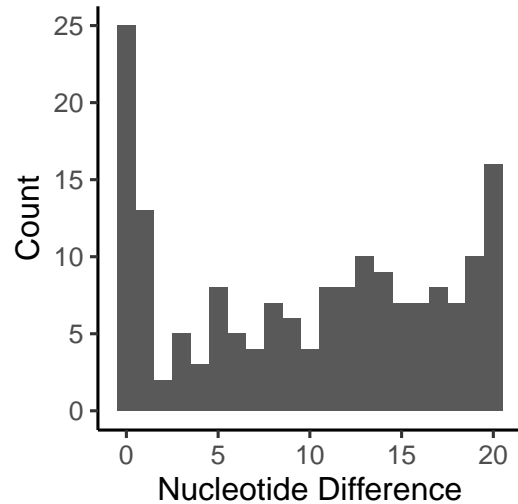
IGHV5-10-1*04

1 sequences assigned
No exact matches.



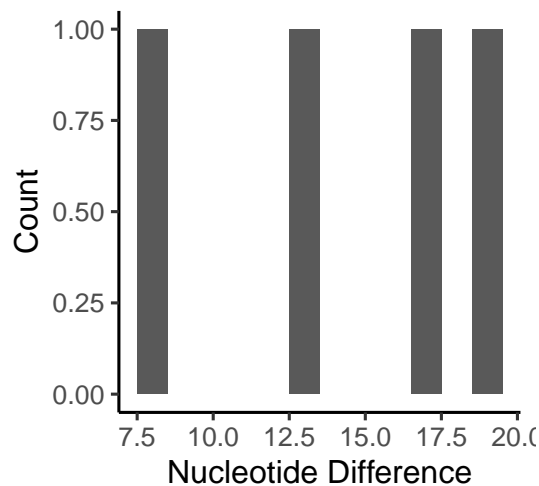
IGHV4-59*08

354 sequences assigned
25 (7.1%) exact matches, in which:
25 unique CDR3
5 unique J



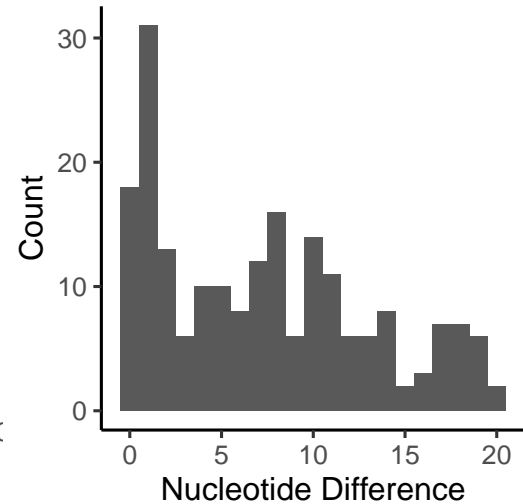
IGHV1/OR15-1*04

4 sequences assigned
No exact matches.



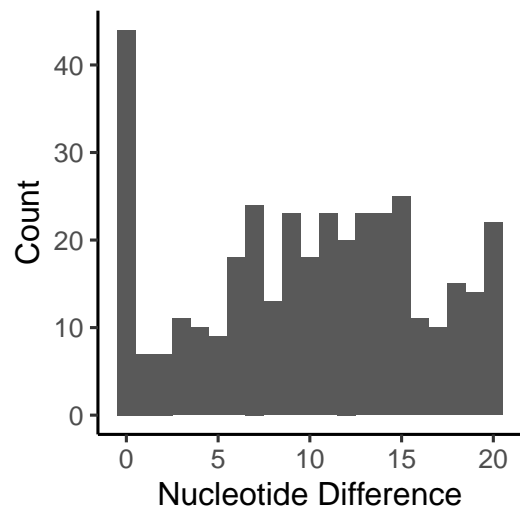
IGHV5-51*01

238 sequences assigned
18 (7.6%) exact matches, in which:
17 unique CDR3
6 unique J



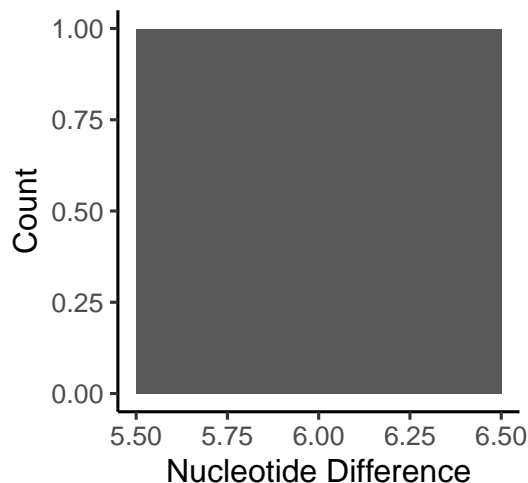
IGHV5-51*03

538 sequences assigned
44 (8.2%) exact matches, in which:
44 unique CDR3
6 unique J



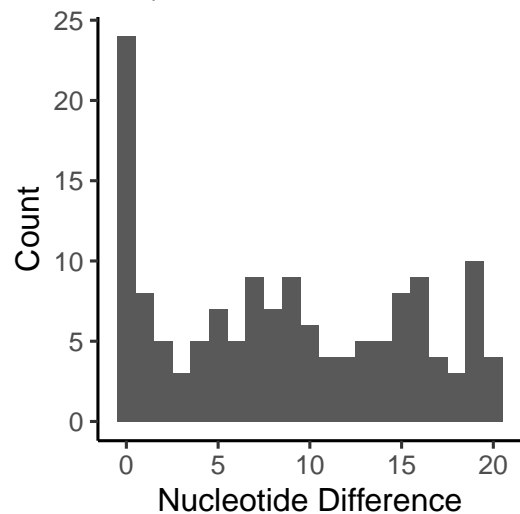
IGHV3/OR16-9*01

1 sequences assigned
No exact matches.



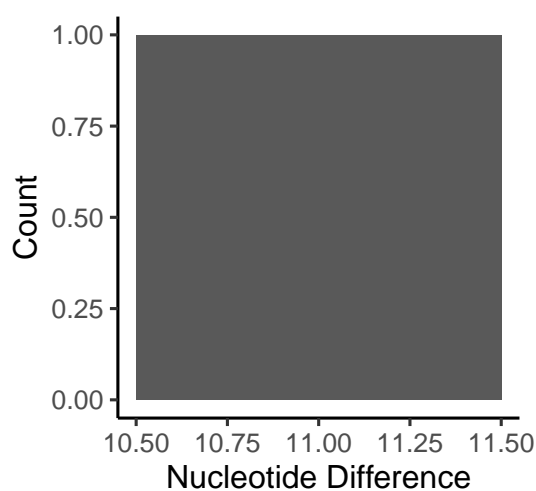
IGHV6-1*01

226 sequences assigned
24 (10.6%) exact matches, in which:
22 unique CDR3
5 unique J



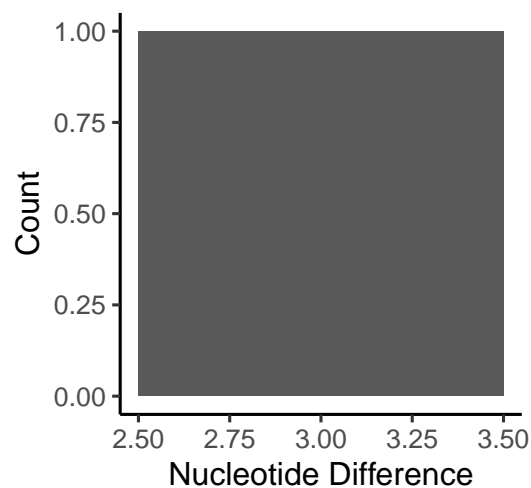
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



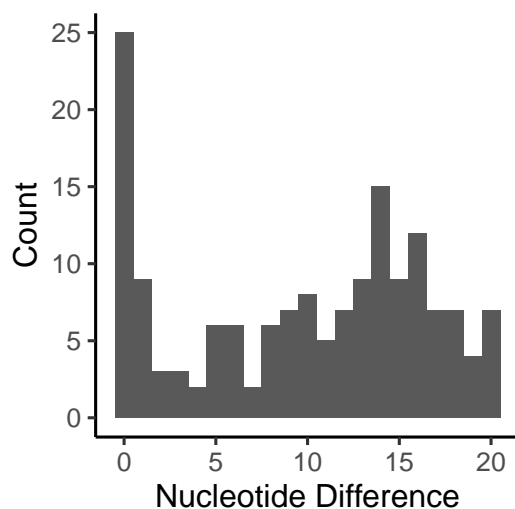
IGHV3/OR16-8*01

1 sequences assigned
No exact matches.

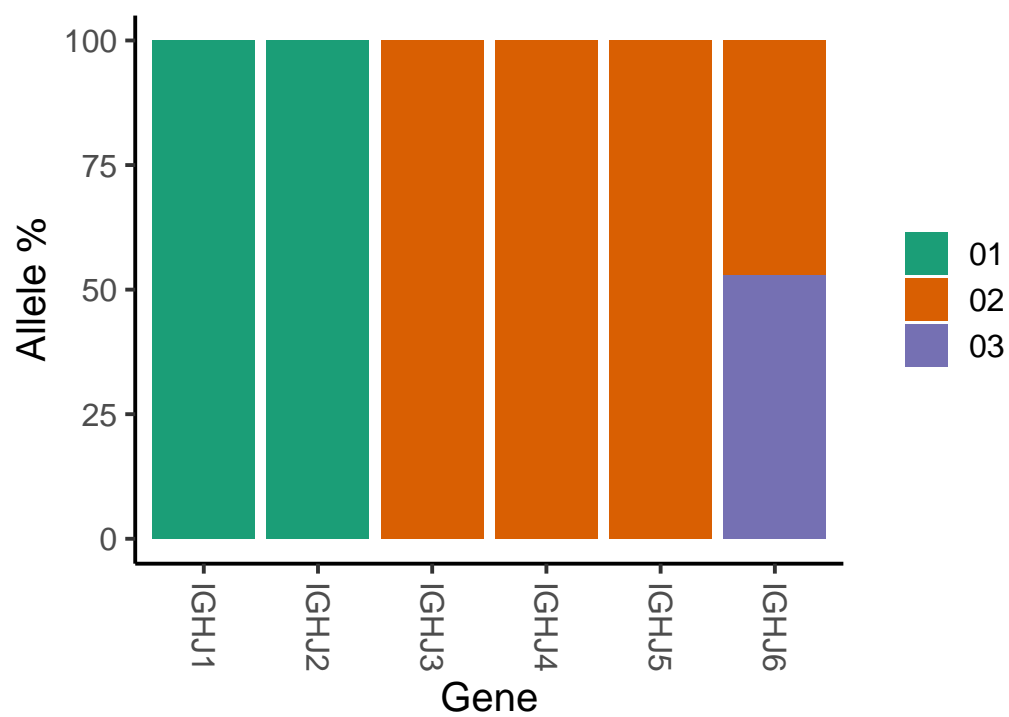


IGHV7-4-1*02

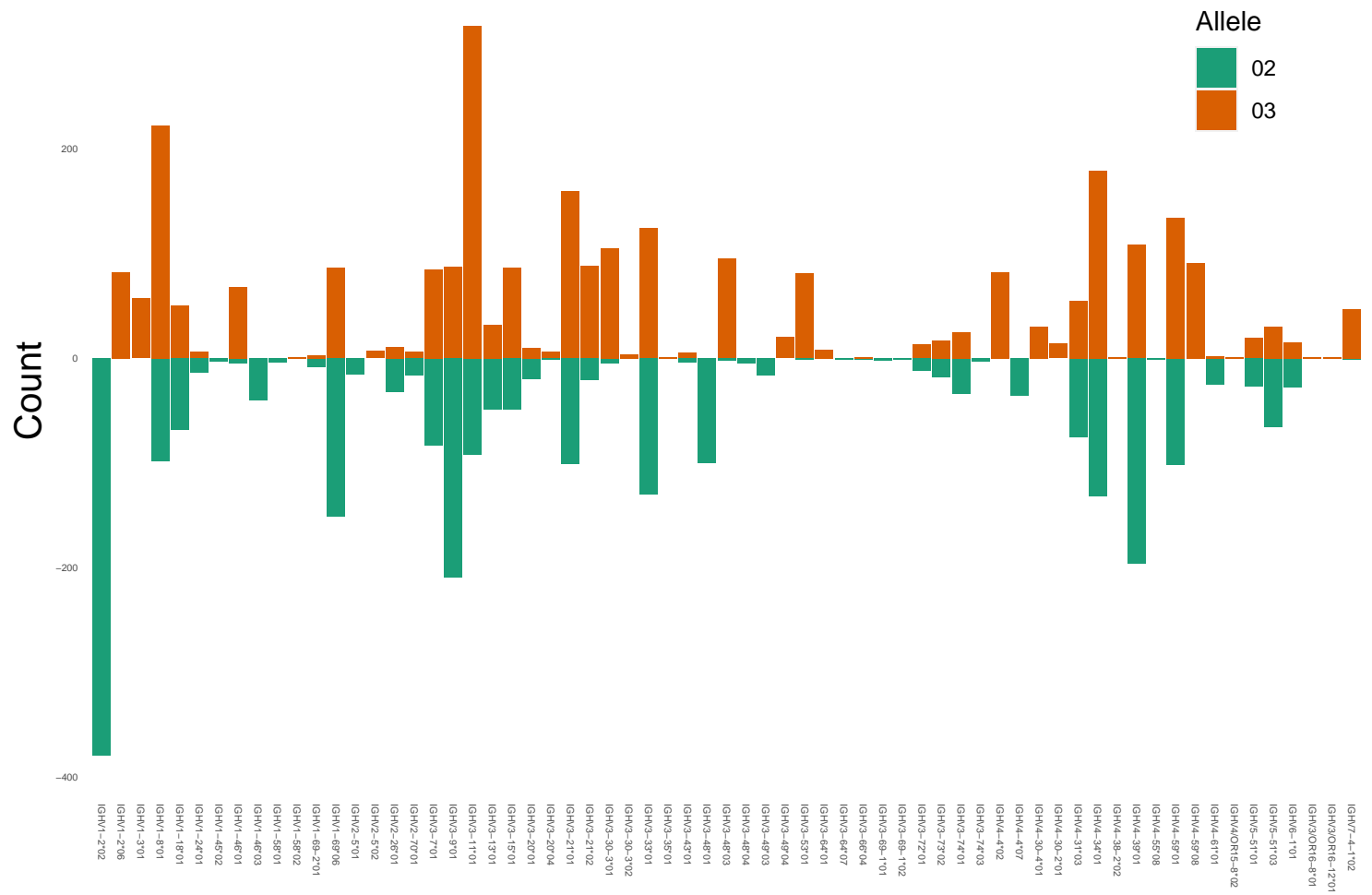
228 sequences assigned
25 (11%) exact matches, in which:
25 unique CDR3
4 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.