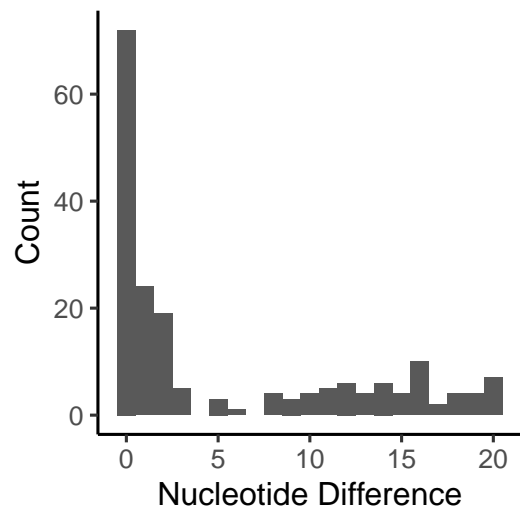


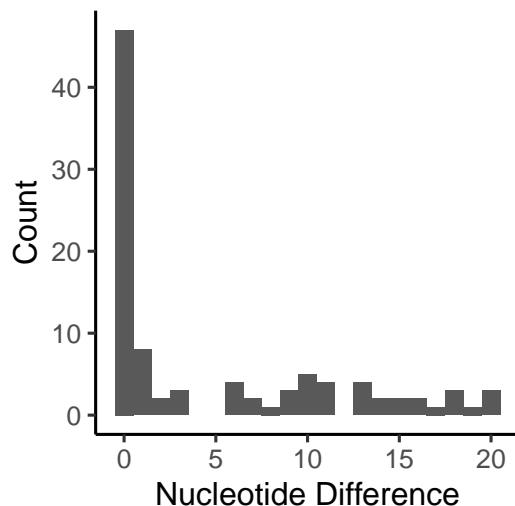
IGHV1-2*06

408 sequences assigned
72 (17.6%) exact matches, in which:
72 unique CDR3
6 unique J



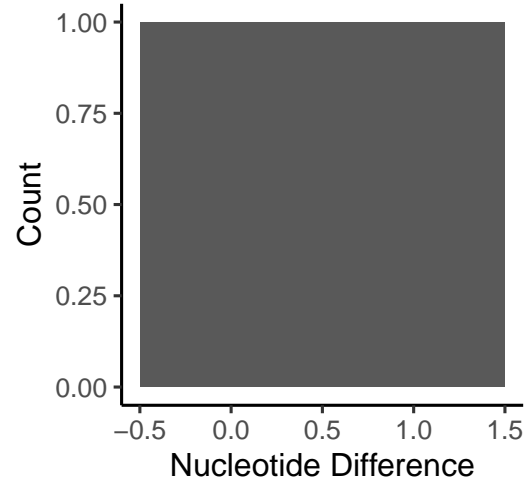
IGHV1-18*01

264 sequences assigned
47 (17.8%) exact matches, in which:
47 unique CDR3
6 unique J



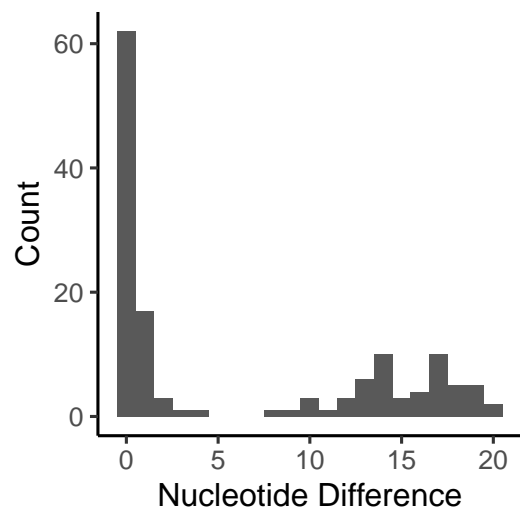
IGHV1-45*02

16 sequences assigned
1 (6.2%) exact matches, in which:
1 unique CDR3
1 unique J



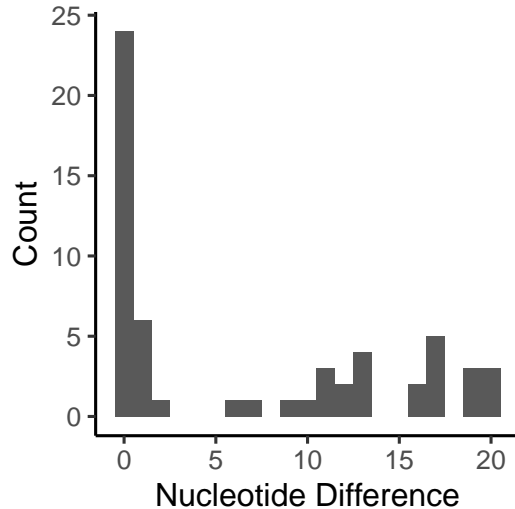
IGHV1-3*01

369 sequences assigned
62 (16.8%) exact matches, in which:
62 unique CDR3
6 unique J



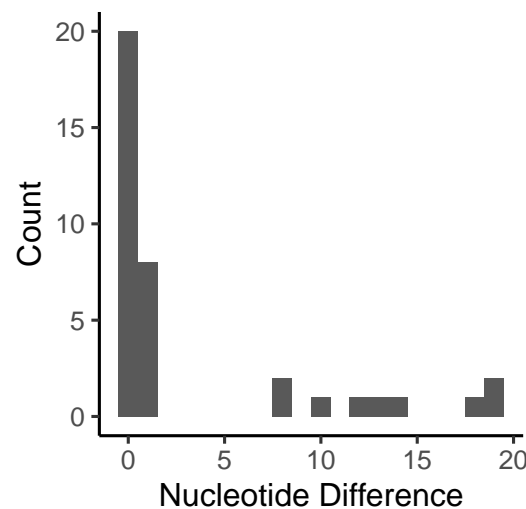
IGHV1-18*04

156 sequences assigned
24 (15.4%) exact matches, in which:
24 unique CDR3
4 unique J



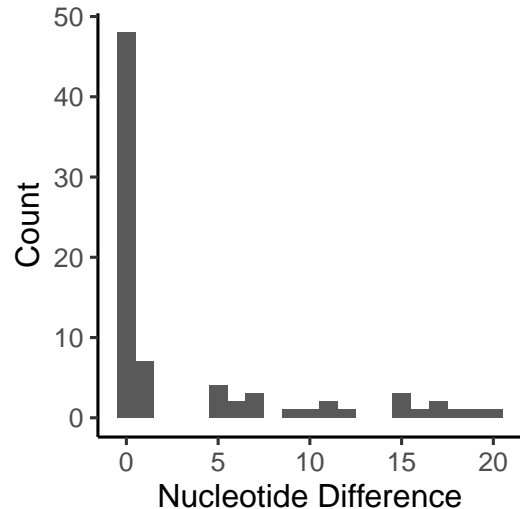
IGHV1-46*01

104 sequences assigned
20 (19.2%) exact matches, in which:
20 unique CDR3
3 unique J



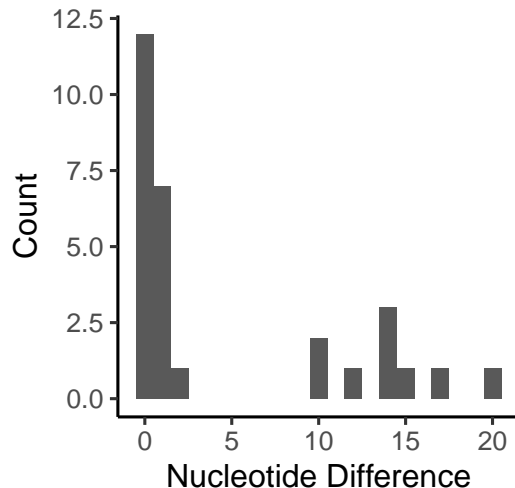
IGHV1-8*01

118 sequences assigned
48 (40.7%) exact matches, in which:
48 unique CDR3
6 unique J



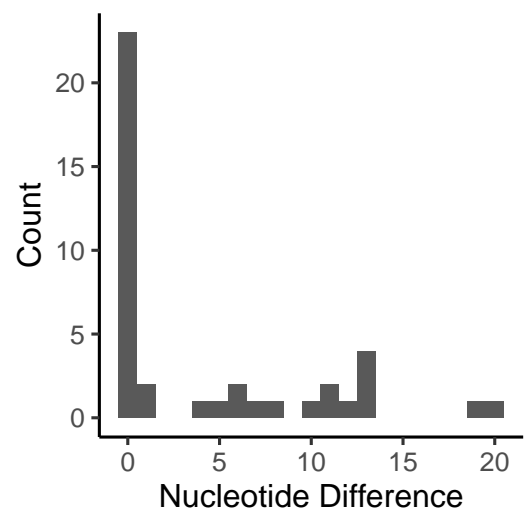
IGHV1-24*01

42 sequences assigned
12 (28.6%) exact matches, in which:
12 unique CDR3
5 unique J



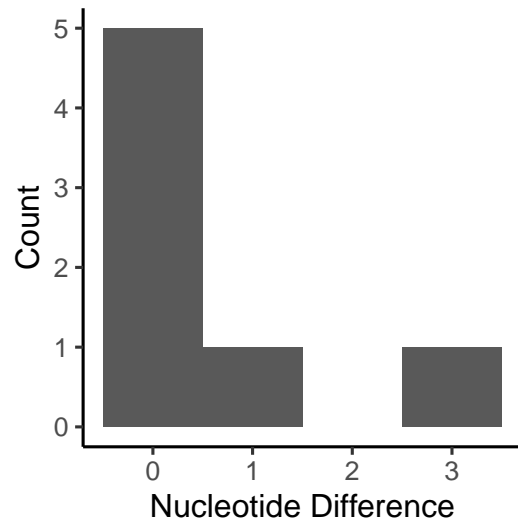
IGHV1-46*03

109 sequences assigned
23 (21.1%) exact matches, in which:
23 unique CDR3
4 unique J



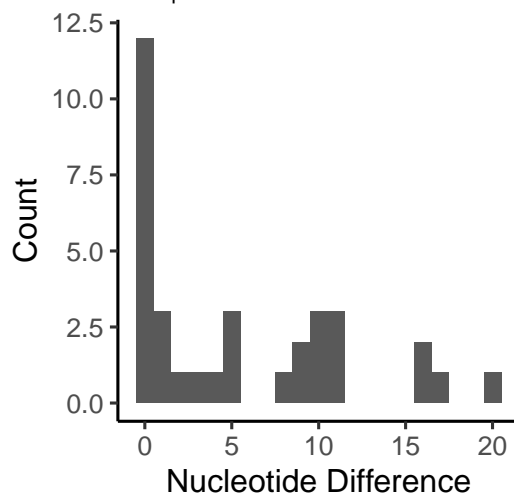
IGHV1-58*01

16 sequences assigned
5 (31.2%) exact matches, in which:
5 unique CDR3
3 unique J



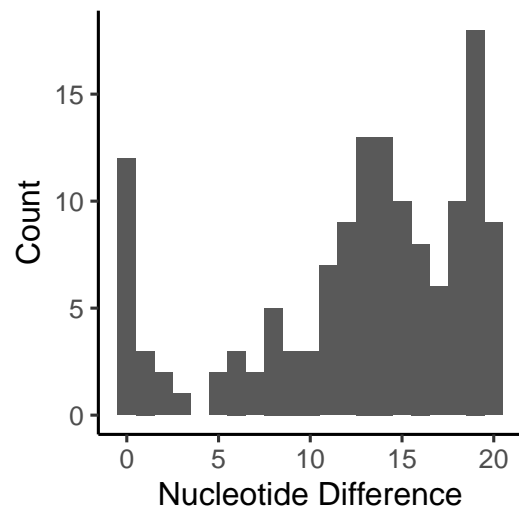
IGHV2-26*01

48 sequences assigned
12 (25%) exact matches, in which:
12 unique CDR3
4 unique J



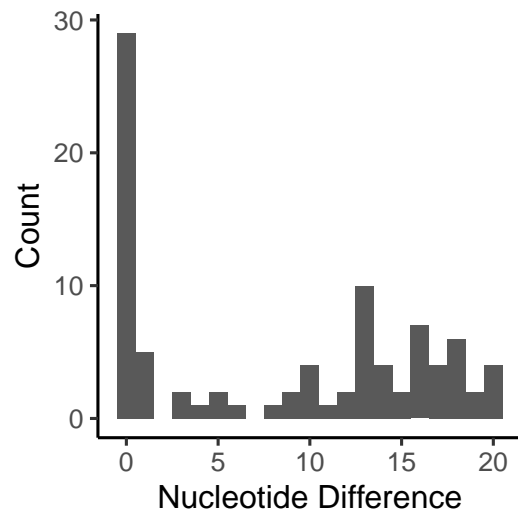
IGHV3-7*01

276 sequences assigned
12 (4.3%) exact matches, in which:
12 unique CDR3
4 unique J



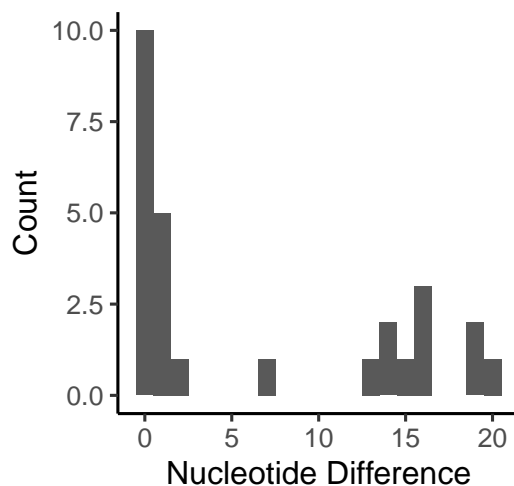
IGHV2-5*01

128 sequences assigned
29 (22.7%) exact matches, in which:
29 unique CDR3
6 unique J



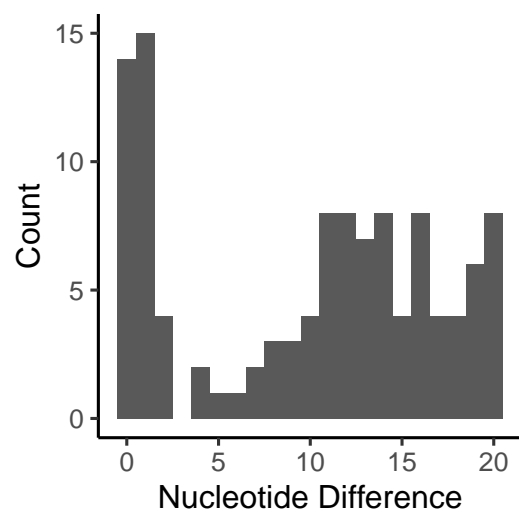
IGHV2-70*01

43 sequences assigned
10 (23.3%) exact matches, in which:
10 unique CDR3
5 unique J



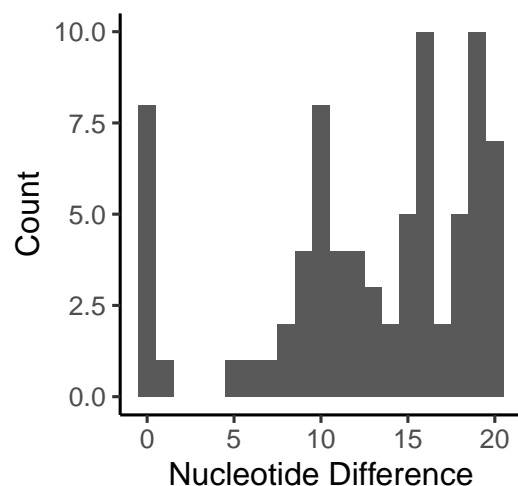
IGHV3-7*03

273 sequences assigned
14 (5.1%) exact matches, in which:
12 unique CDR3
3 unique J



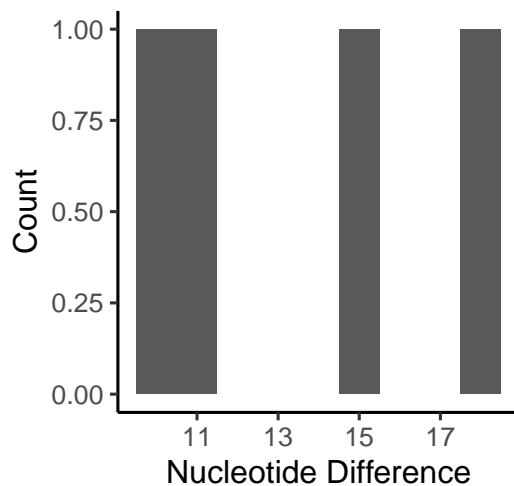
IGHV2-5*02

108 sequences assigned
8 (7.4%) exact matches, in which:
8 unique CDR3
2 unique J



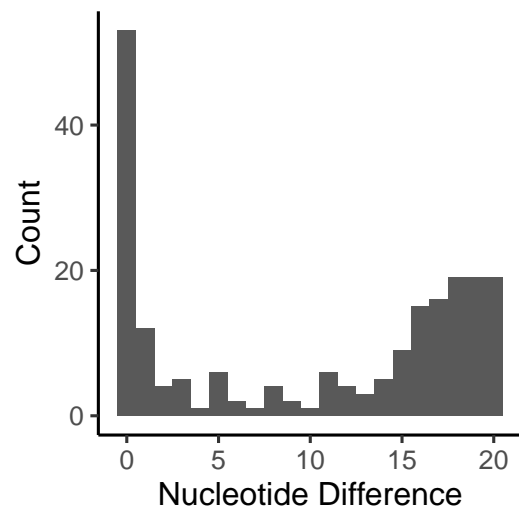
IGHV2-70*13

10 sequences assigned
No exact matches.



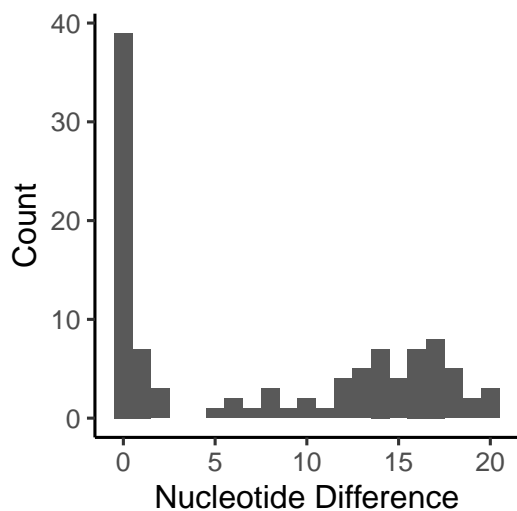
IGHV3-9*01

460 sequences assigned
53 (11.5%) exact matches, in which:
53 unique CDR3
6 unique J



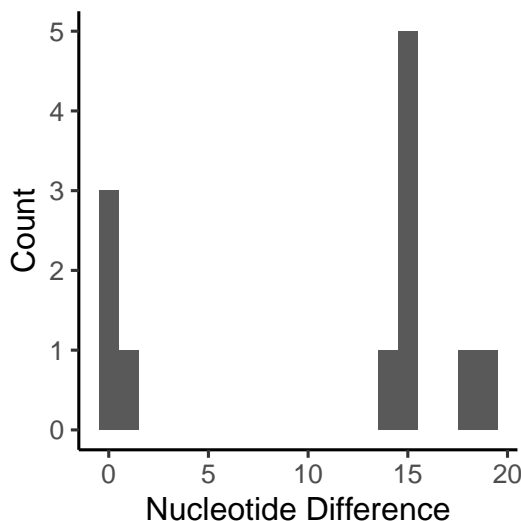
IGHV3-11*01

239 sequences assigned
39 (16.3%) exact matches, in which:
39 unique CDR3
5 unique J



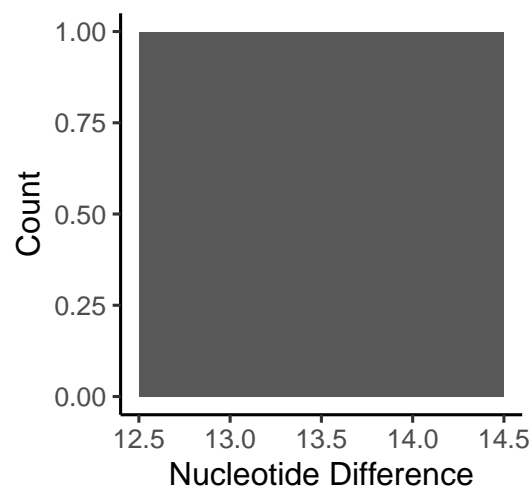
IGHV3-13*05

14 sequences assigned
3 (21.4%) exact matches, in which:
3 unique CDR3
2 unique J



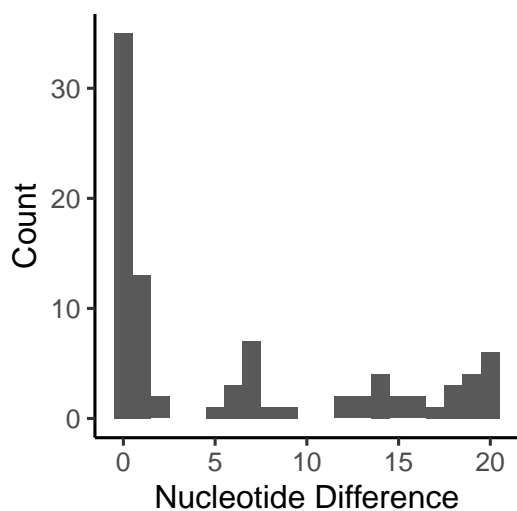
IGHV3-20*04

4 sequences assigned
No exact matches.



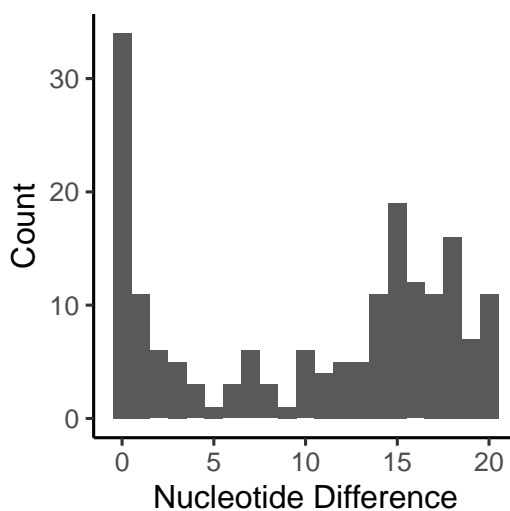
IGHV3-11*06

216 sequences assigned
35 (16.2%) exact matches, in which:
35 unique CDR3
7 unique J



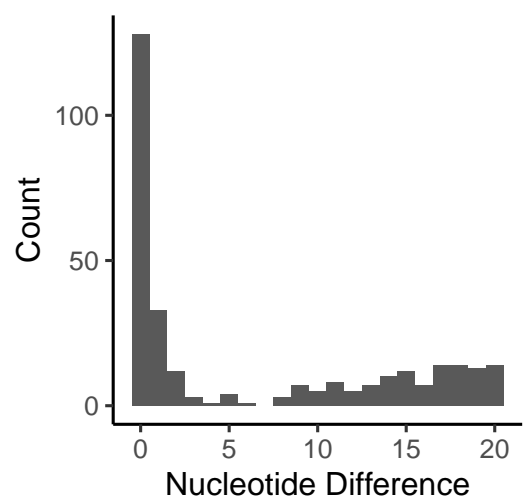
IGHV3-15*01

364 sequences assigned
34 (9.3%) exact matches, in which:
34 unique CDR3
6 unique J



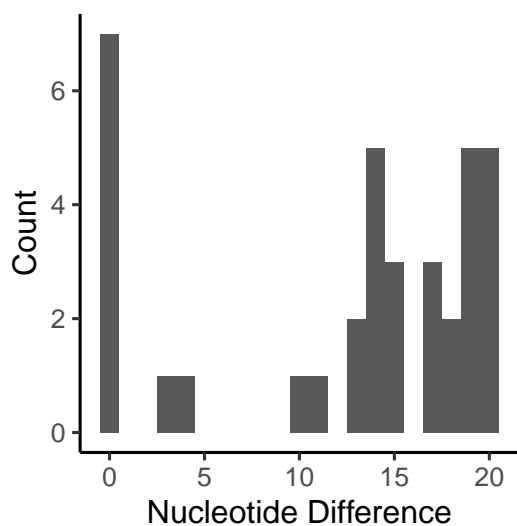
IGHV3-21*01

476 sequences assigned
128 (26.9%) exact matches, in which:
128 unique CDR3
7 unique J



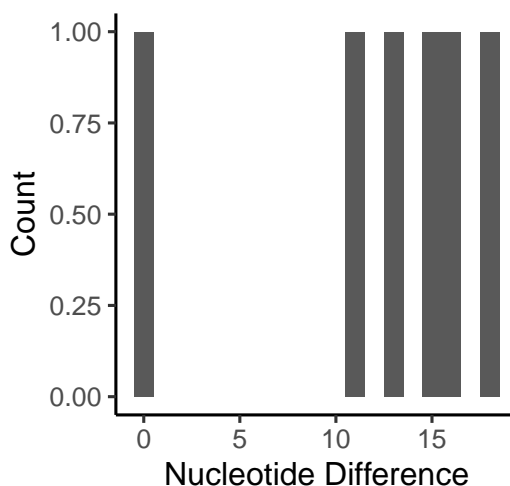
IGHV3-13*01

82 sequences assigned
7 (8.5%) exact matches, in which:
7 unique CDR3
3 unique J



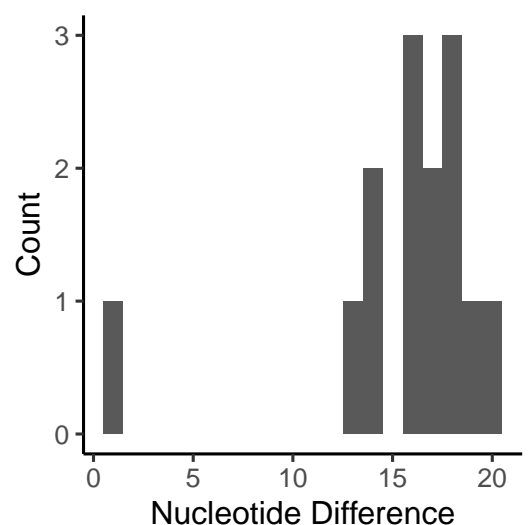
IGHV3-20*01

8 sequences assigned
1 (12.5%) exact matches, in which:
1 unique CDR3
1 unique J



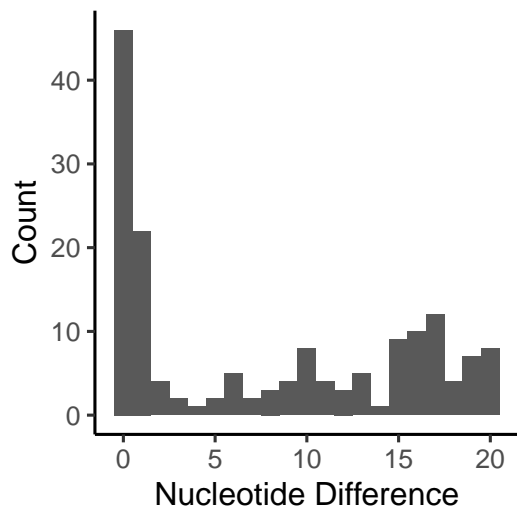
IGHV3-21*02

96 sequences assigned
No exact matches.



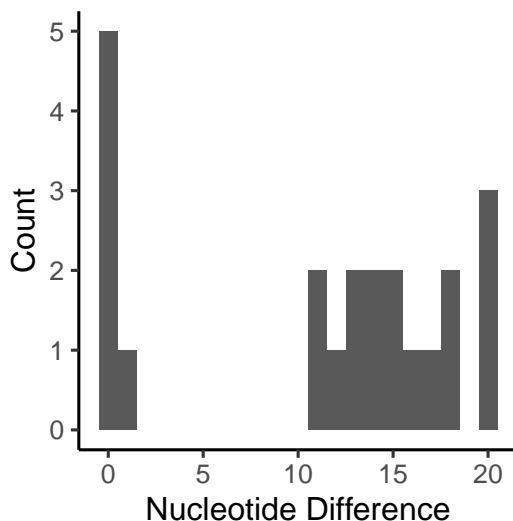
IGHV3-30-3*01

297 sequences assigned
46 (15.5%) exact matches, in which:
46 unique CDR3
5 unique J



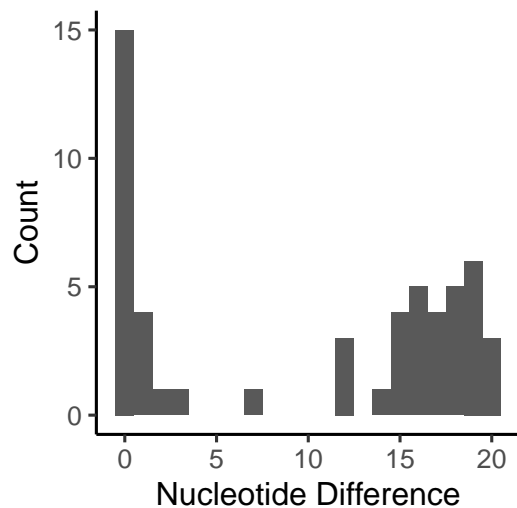
IGHV3-43*01

84 sequences assigned
5 (6%) exact matches, in which:
5 unique CDR3
4 unique J



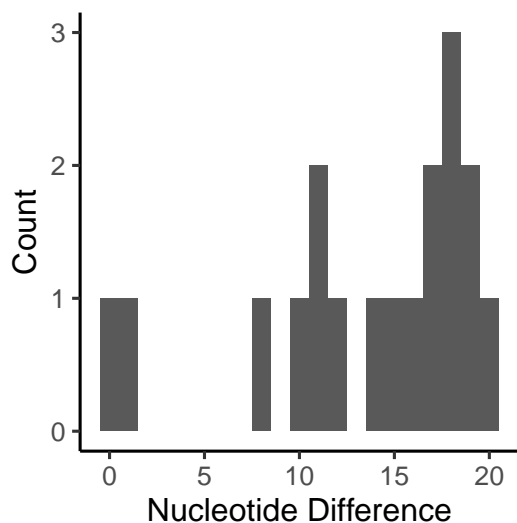
IGHV3-49*05

101 sequences assigned
15 (14.9%) exact matches, in which:
15 unique CDR3
5 unique J



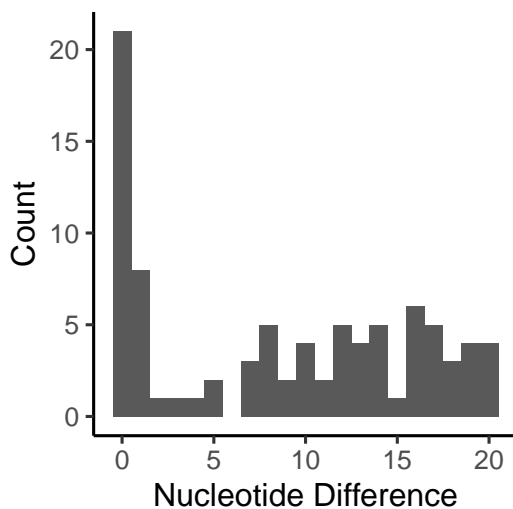
IGHV3-30*03

109 sequences assigned
1 (0.9%) exact matches, in which:
1 unique CDR3
1 unique J



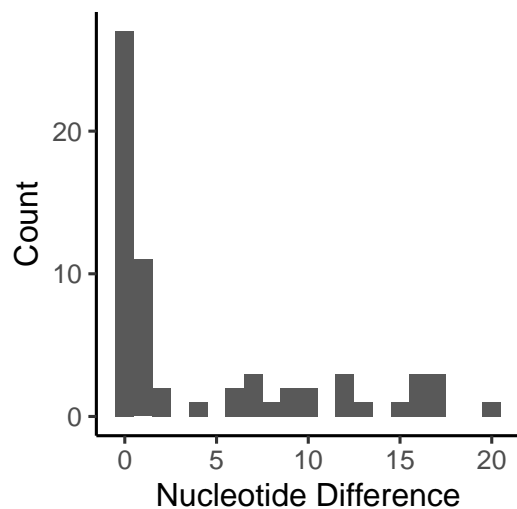
IGHV3-48*01

136 sequences assigned
21 (15.4%) exact matches, in which:
21 unique CDR3
4 unique J



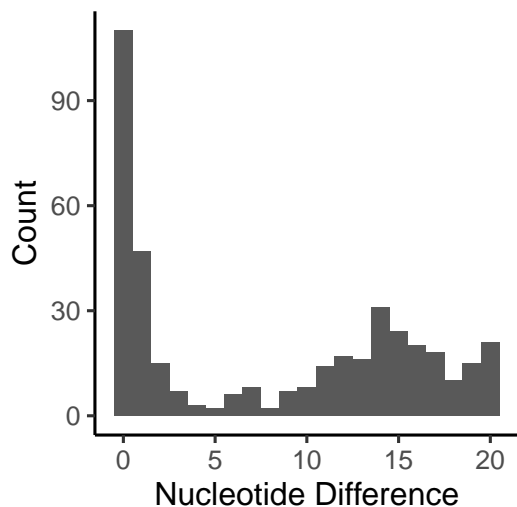
IGHV3-53*01

128 sequences assigned
27 (21.1%) exact matches, in which:
27 unique CDR3
5 unique J



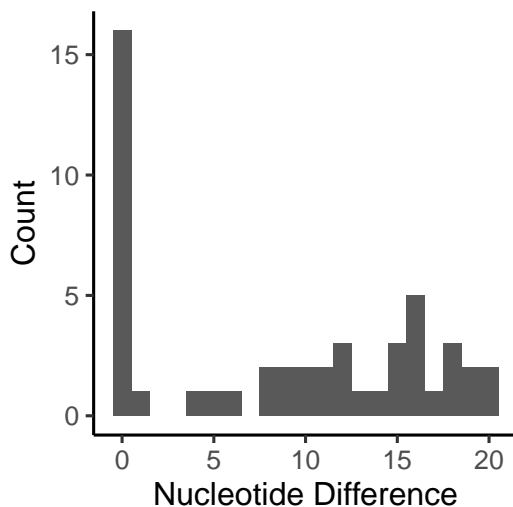
IGHV3-33*01

939 sequences assigned
110 (11.7%) exact matches, in which:
109 unique CDR3
7 unique J



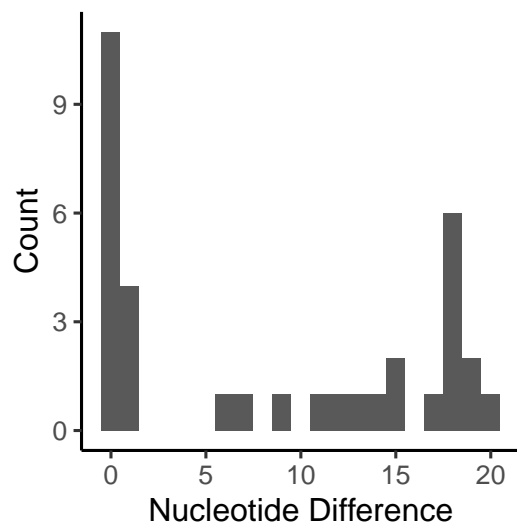
IGHV3-48*02

95 sequences assigned
16 (16.8%) exact matches, in which:
16 unique CDR3
4 unique J



IGHV3-53*02

81 sequences assigned
11 (13.6%) exact matches, in which:
11 unique CDR3
5 unique J



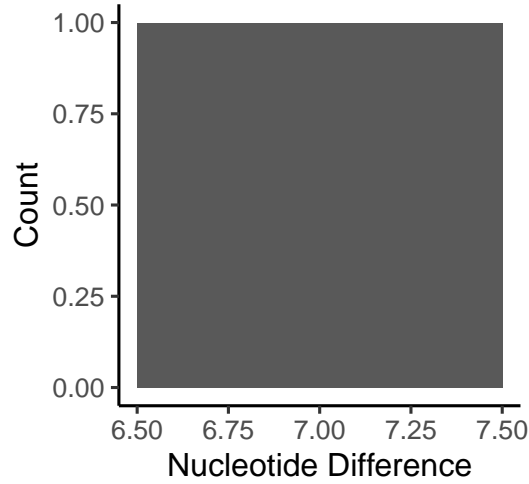
IGHV3-64*02

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



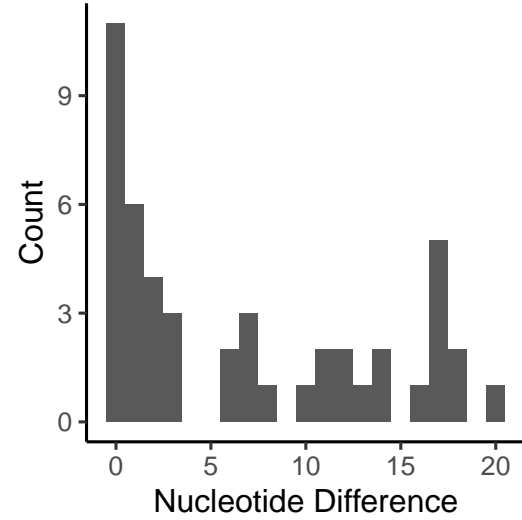
IGHV3-66*04

2 sequences assigned
No exact matches.



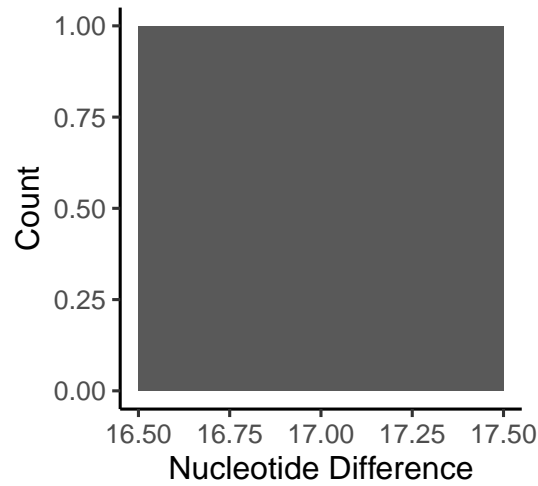
IGHV3-73*02

81 sequences assigned
11 (13.6%) exact matches, in which:
11 unique CDR3
4 unique J



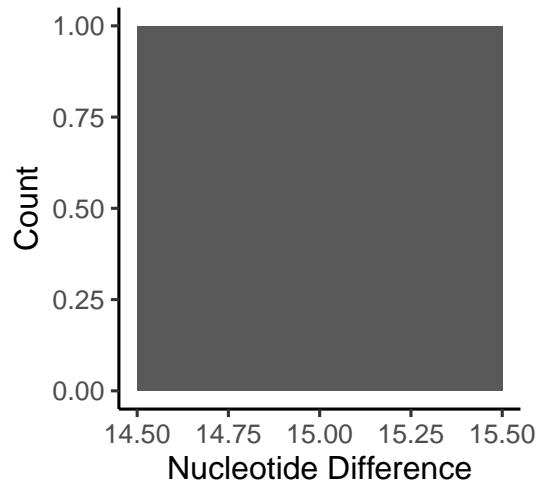
IGHV3-64*07

4 sequences assigned
No exact matches.



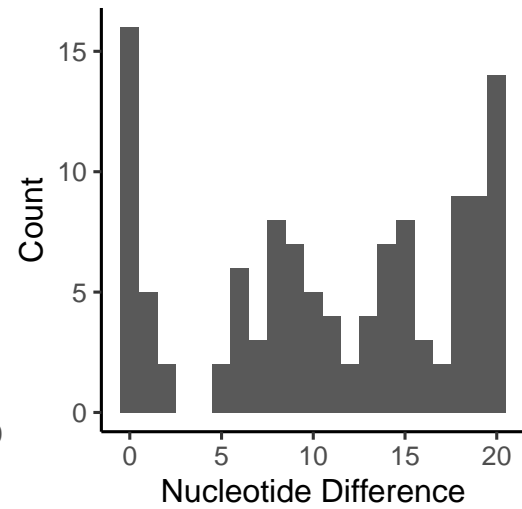
IGHV3-69-1*02

4 sequences assigned
No exact matches.



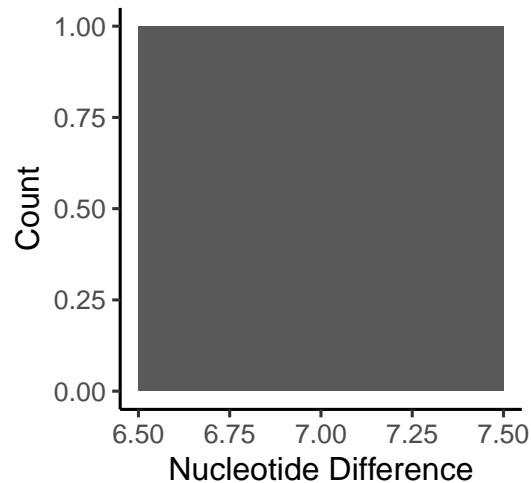
IGHV3-74*01

338 sequences assigned
16 (4.7%) exact matches, in which:
16 unique CDR3
5 unique J



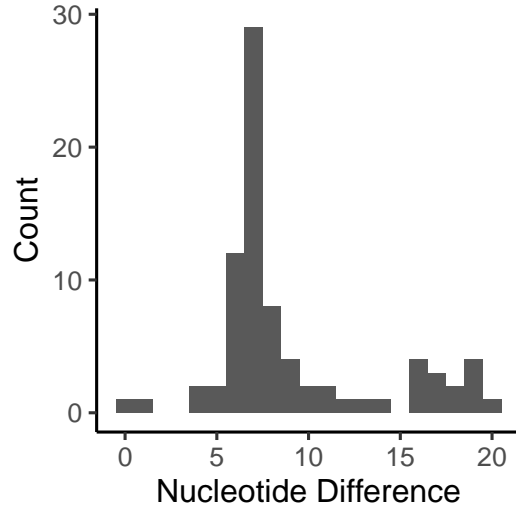
IGHV3-66*03

1 sequences assigned
No exact matches.



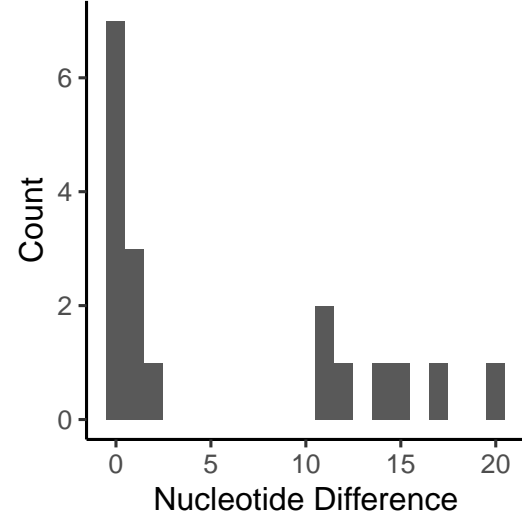
IGHV3-72*01

139 sequences assigned
1 (0.7%) exact matches, in which:
1 unique CDR3
1 unique J



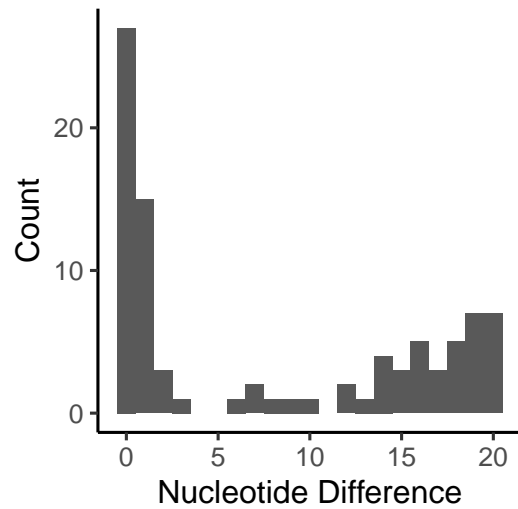
IGHV3-64D*06

61 sequences assigned
7 (11.5%) exact matches, in which:
7 unique CDR3
2 unique J



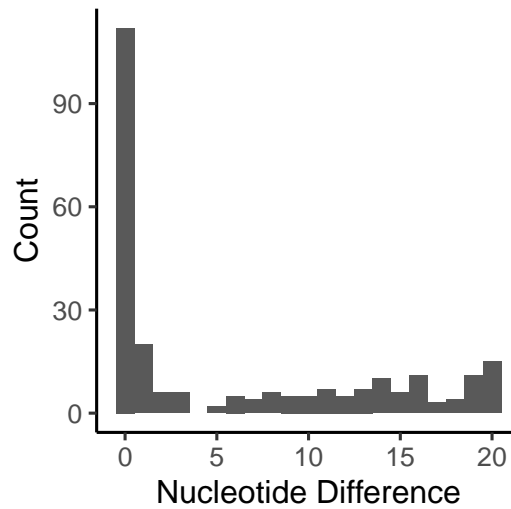
IGHV4-4*02

216 sequences assigned
27 (12.5%) exact matches, in which:
27 unique CDR3
6 unique J



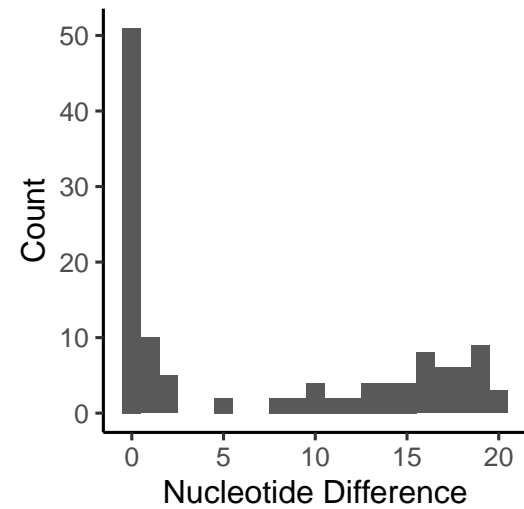
IGHV4-31*03

538 sequences assigned
112 (20.8%) exact matches, in which:
112 unique CDR3
7 unique J



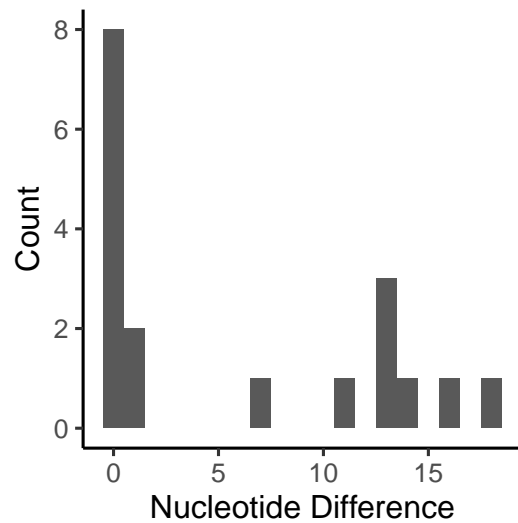
IGHV4-59*01

306 sequences assigned
51 (16.7%) exact matches, in which:
51 unique CDR3
6 unique J



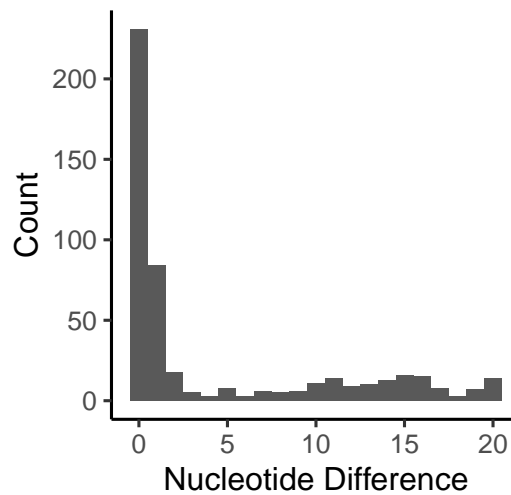
IGHV4-30-2*01

29 sequences assigned
8 (27.6%) exact matches, in which:
8 unique CDR3
4 unique J



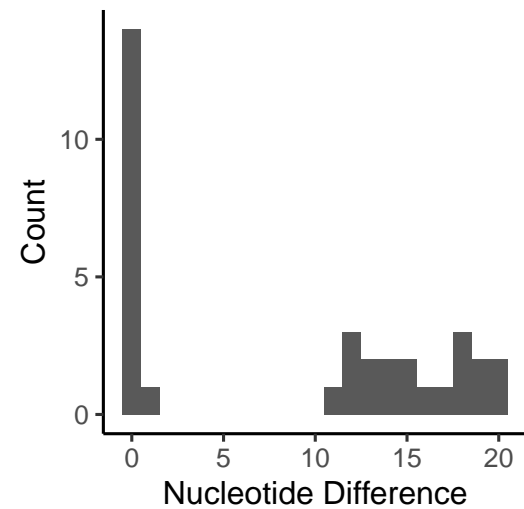
IGHV4-34*01

713 sequences assigned
231 (32.4%) exact matches, in which:
231 unique CDR3
7 unique J



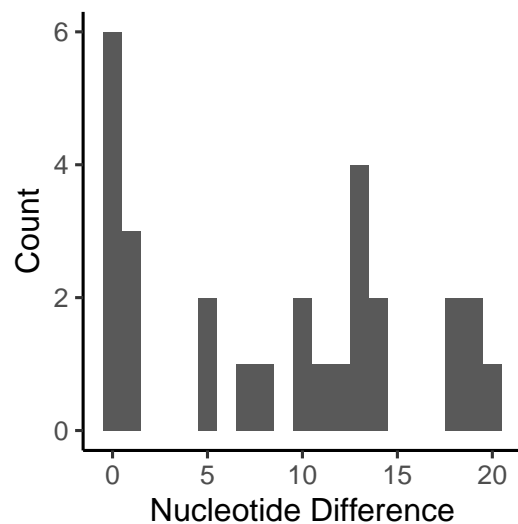
IGHV4-61*01

63 sequences assigned
14 (22.2%) exact matches, in which:
14 unique CDR3
5 unique J



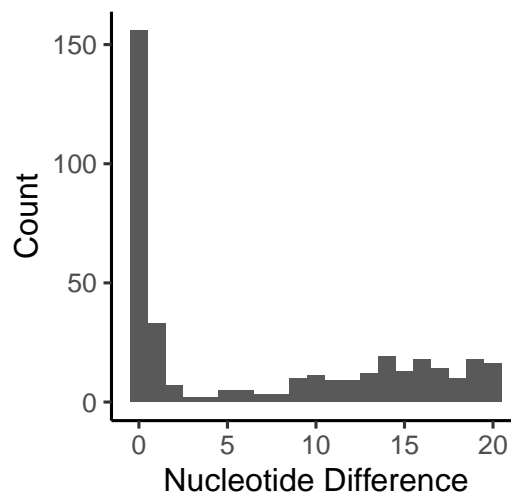
IGHV4-30-4*01

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



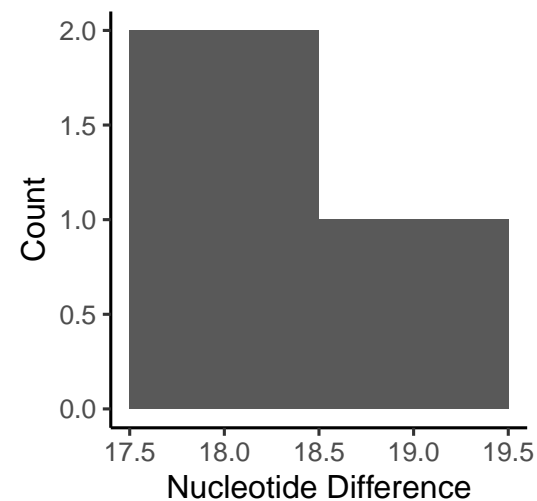
IGHV4-39*01

866 sequences assigned
156 (18%) exact matches, in which:
156 unique CDR3
7 unique J



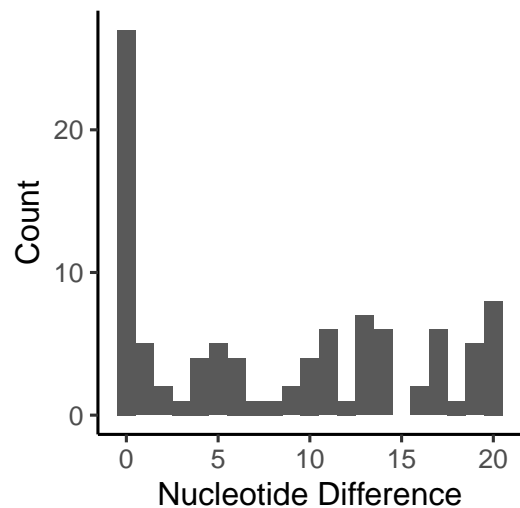
IGHV4-61*08

12 sequences assigned
No exact matches.



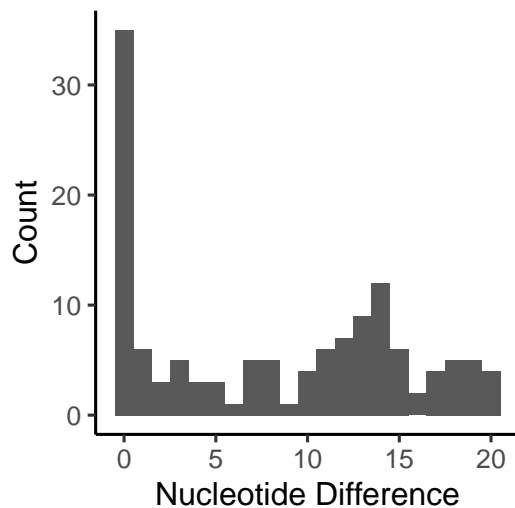
IGHV5-10-1*03

172 sequences assigned
27 (15.7%) exact matches, in which:
27 unique CDR3
6 unique J



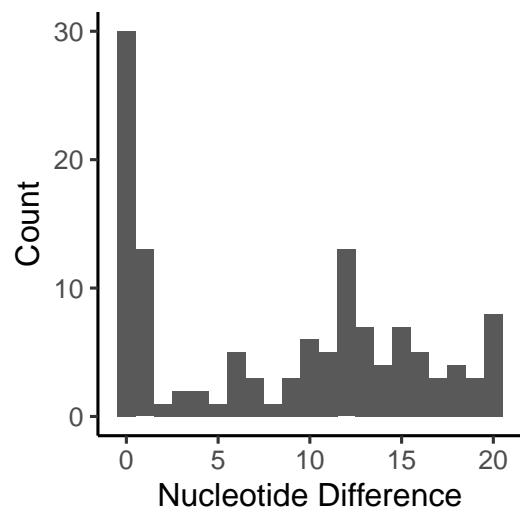
IGHV6-1*01

186 sequences assigned
35 (18.8%) exact matches, in which:
35 unique CDR3
6 unique J



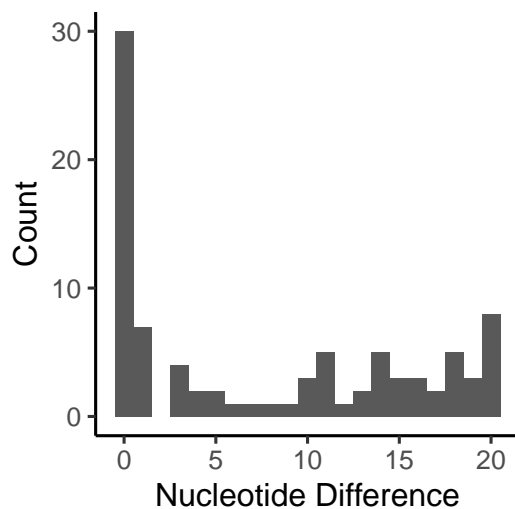
IGHV5-51*01

223 sequences assigned
30 (13.5%) exact matches, in which:
30 unique CDR3
5 unique J



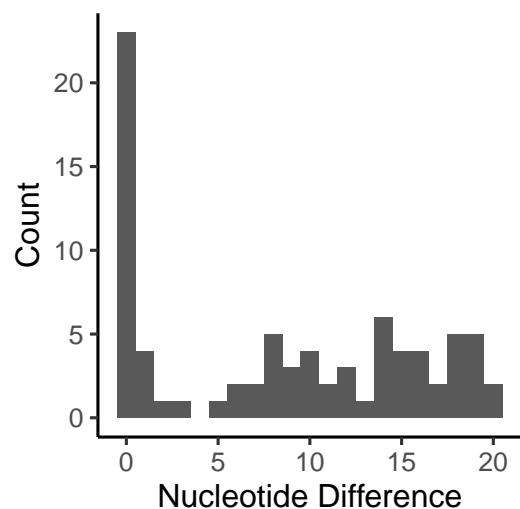
IGHV7-4-1*02

188 sequences assigned
30 (16%) exact matches, in which:
30 unique CDR3
5 unique J

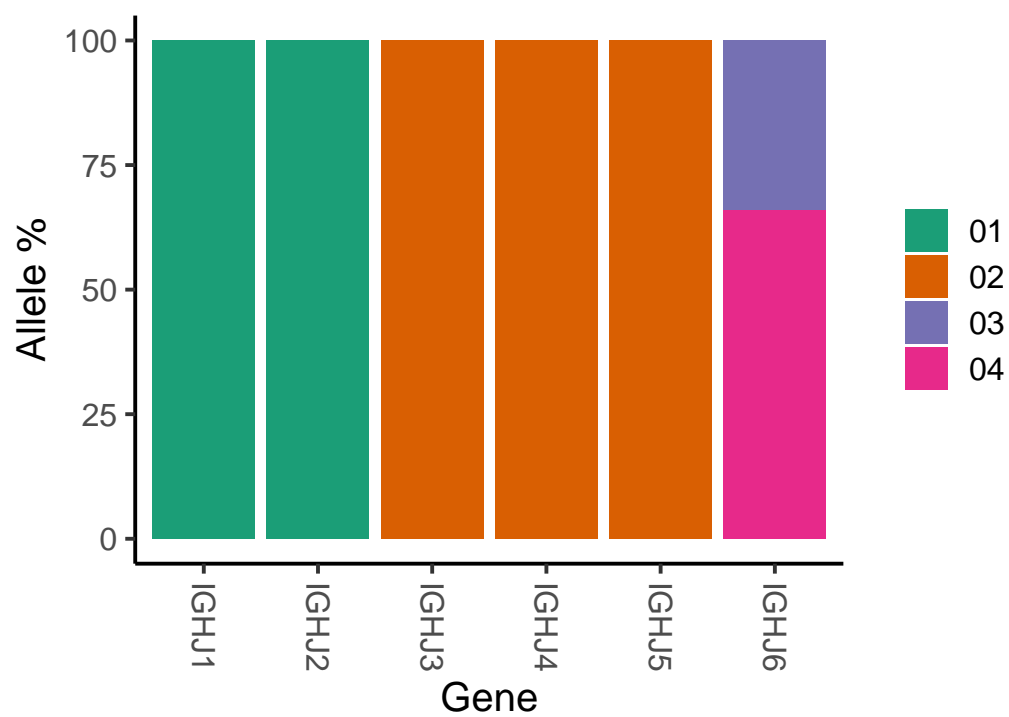


IGHV5-51*03

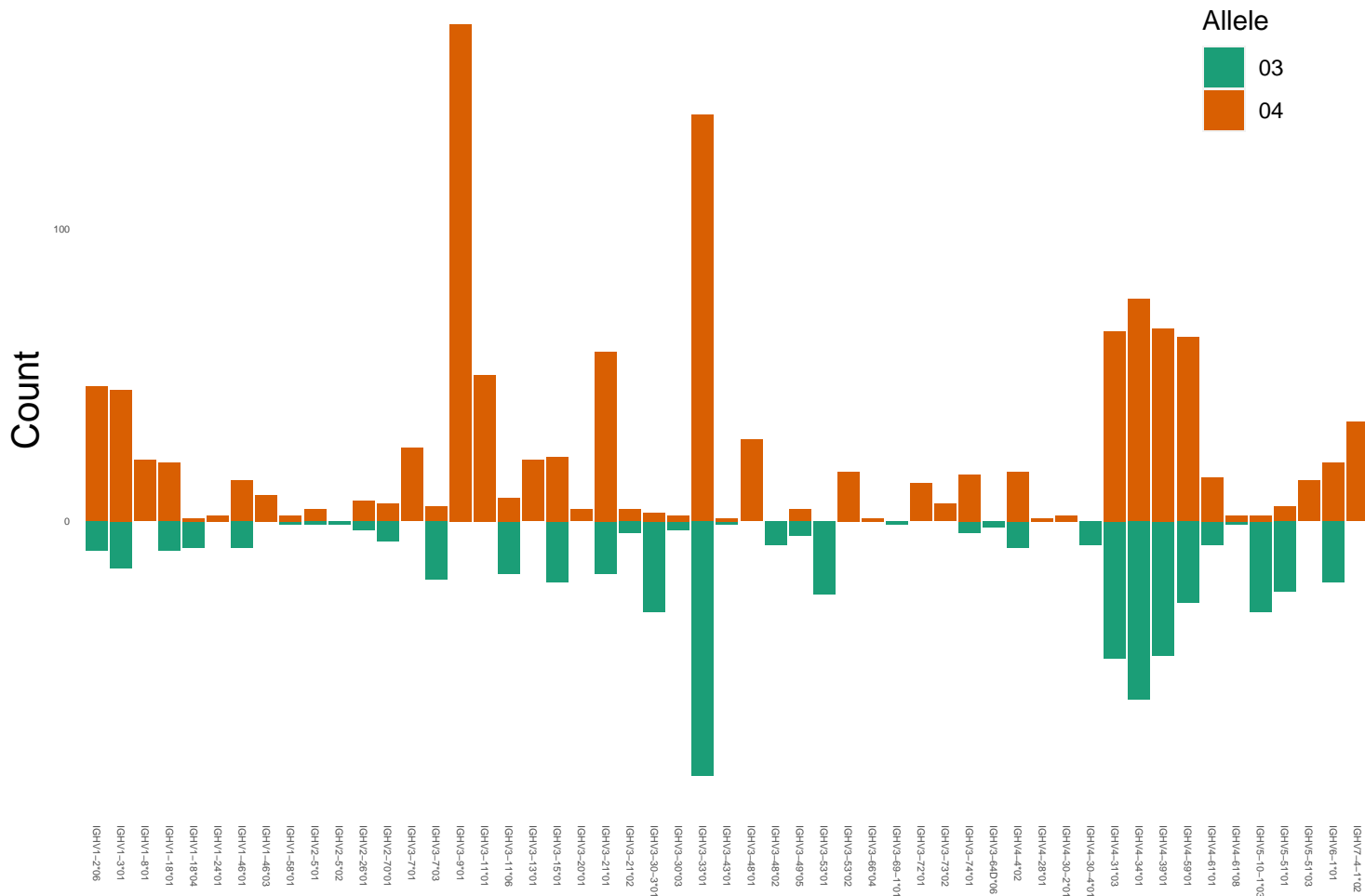
133 sequences assigned
23 (17.3%) exact matches, in which:
23 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.