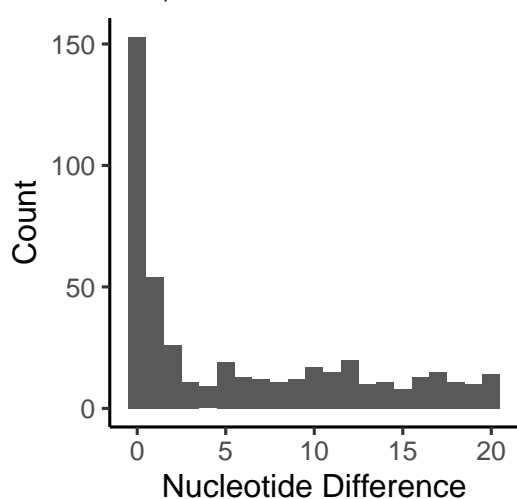


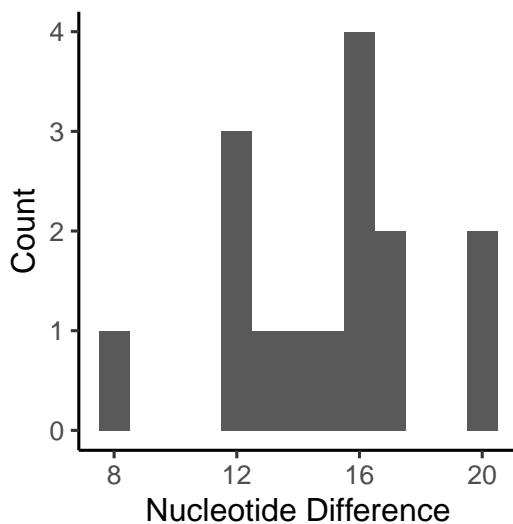
IGHV1-2*02

622 sequences assigned
153 (24.6%) exact matches, in which:
151 unique CDR3
6 unique J



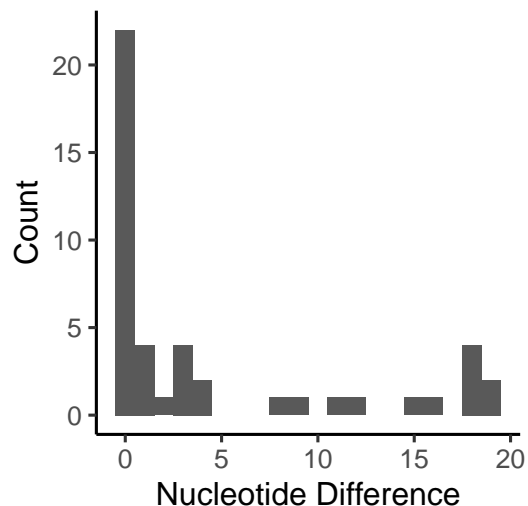
IGHV1-3*04

25 sequences assigned
No exact matches.



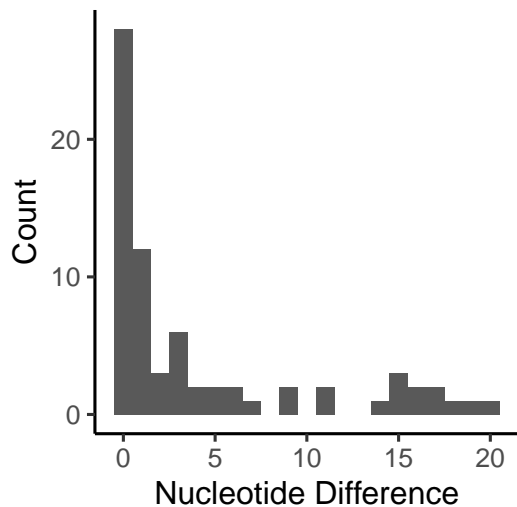
IGHV1-24*01

52 sequences assigned
22 (42.3%) exact matches, in which:
22 unique CDR3
5 unique J



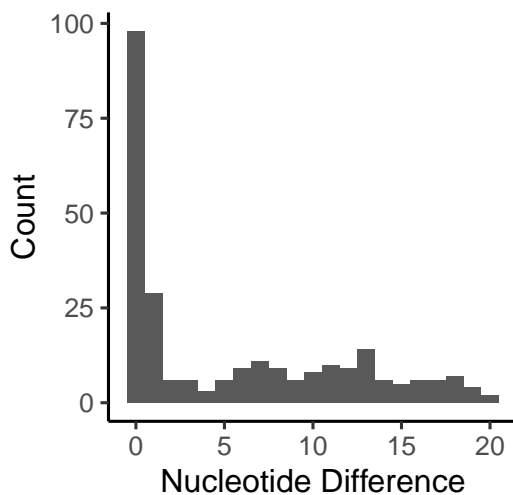
IGHV1-2*04

82 sequences assigned
28 (34.1%) exact matches, in which:
28 unique CDR3
4 unique J



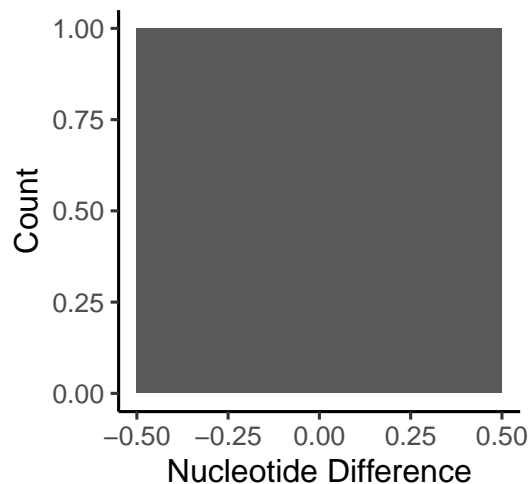
IGHV1-18*01

349 sequences assigned
98 (28.1%) exact matches, in which:
98 unique CDR3
5 unique J



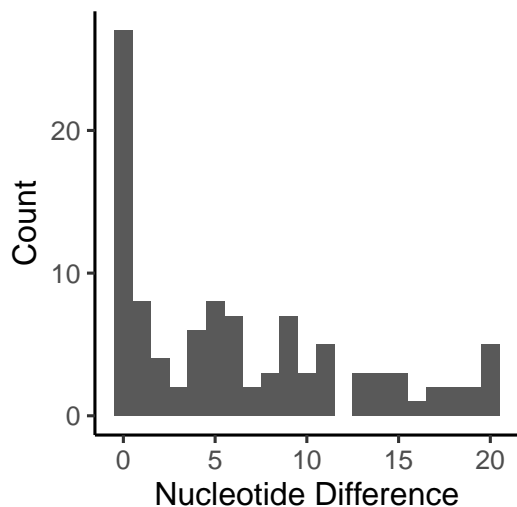
IGHV1-45*02

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



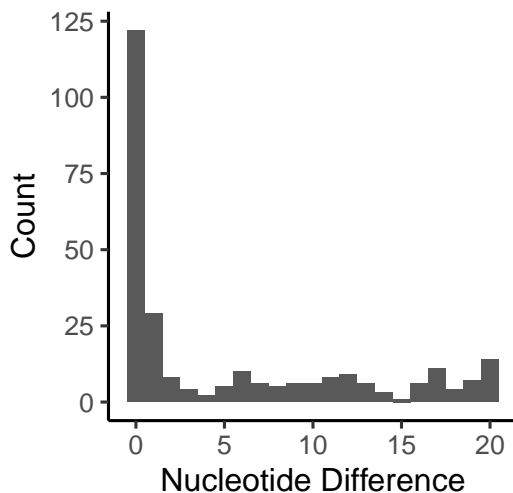
IGHV1-3*01

156 sequences assigned
27 (17.3%) exact matches, in which:
27 unique CDR3
3 unique J



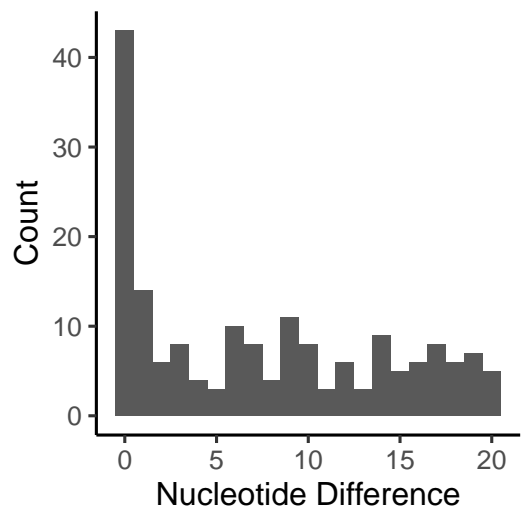
IGHV1-18*04

334 sequences assigned
122 (36.5%) exact matches, in which:
121 unique CDR3
4 unique J



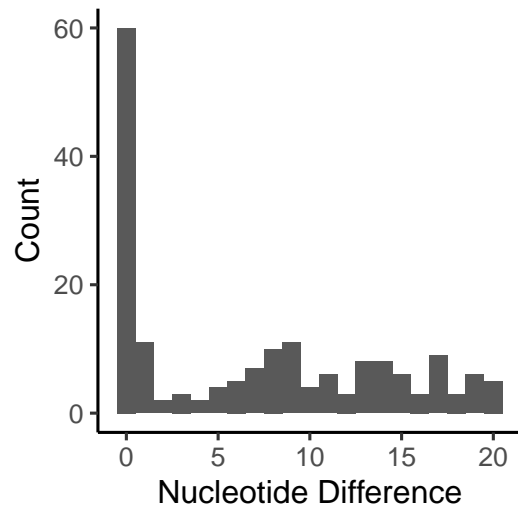
IGHV1-46*01

224 sequences assigned
43 (19.2%) exact matches, in which:
43 unique CDR3
5 unique J



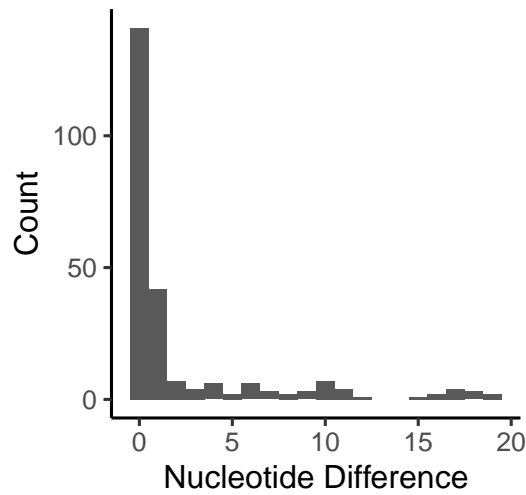
IGHV1-46*03

239 sequences assigned
60 (25.1%) exact matches, in which:
60 unique CDR3
5 unique J



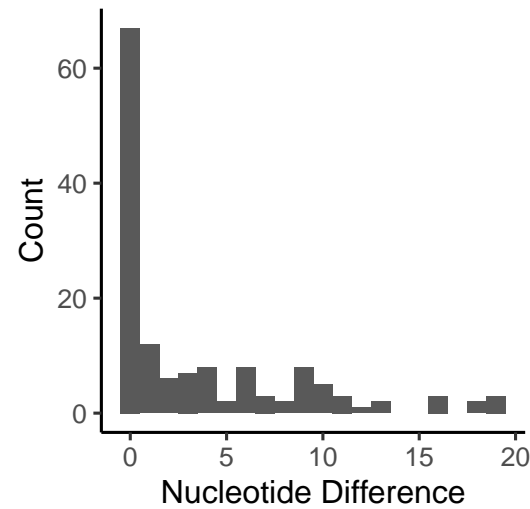
IGHV1-69*06

333 sequences assigned
141 (42.3%) exact matches, in which:
140 unique CDR3
6 unique J



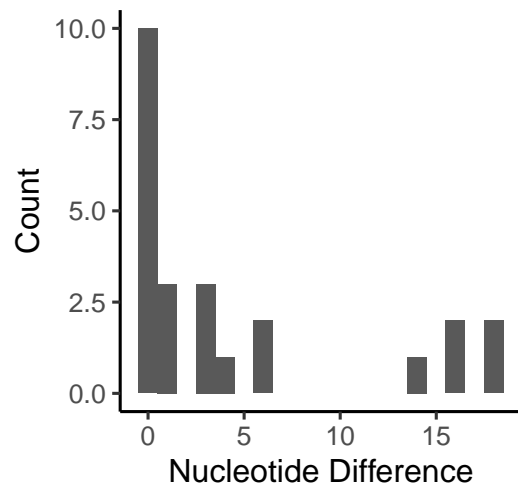
IGHV2-26*01

156 sequences assigned
67 (42.9%) exact matches, in which:
66 unique CDR3
5 unique J



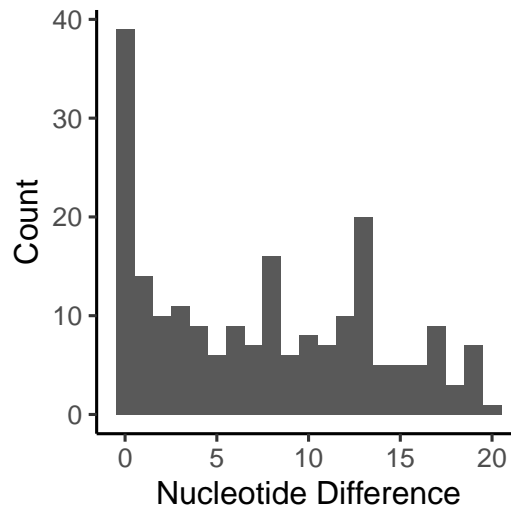
IGHV1-58*01

26 sequences assigned
10 (38.5%) exact matches, in which:
10 unique CDR3
3 unique J



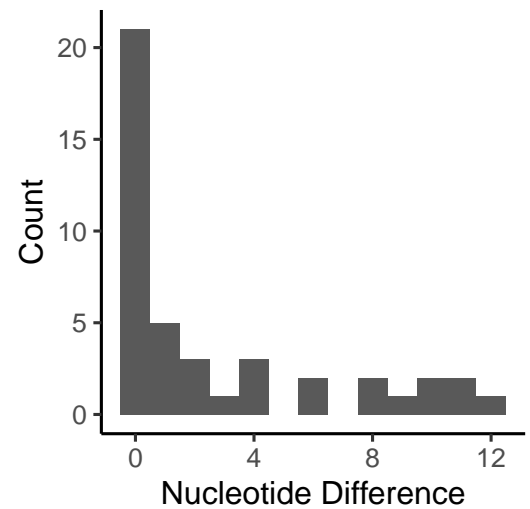
IGHV2-5*01

226 sequences assigned
39 (17.3%) exact matches, in which:
38 unique CDR3
5 unique J



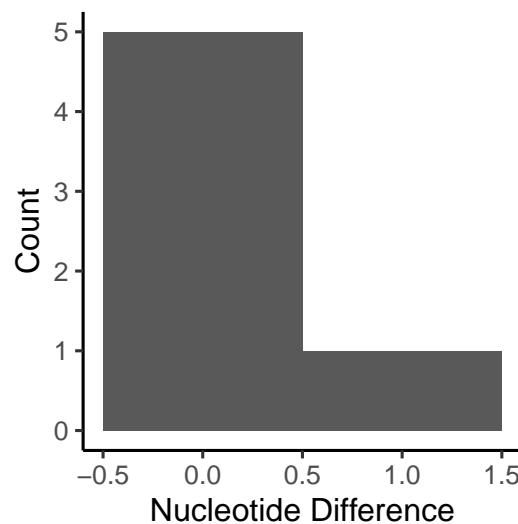
IGHV2-70*01

43 sequences assigned
21 (48.8%) exact matches, in which:
21 unique CDR3
4 unique J



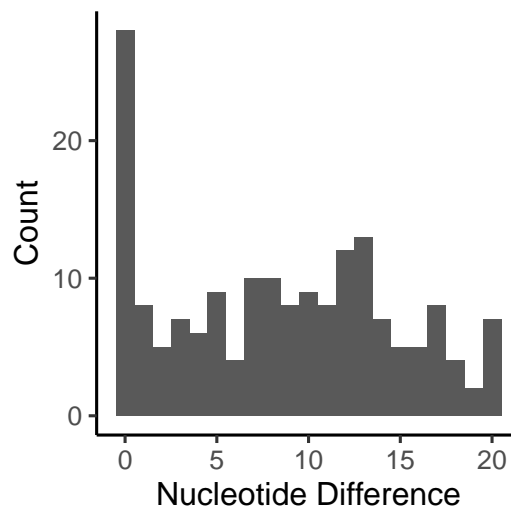
IGHV1-69-2*01

15 sequences assigned
5 (33.3%) exact matches, in which:
5 unique CDR3
3 unique J



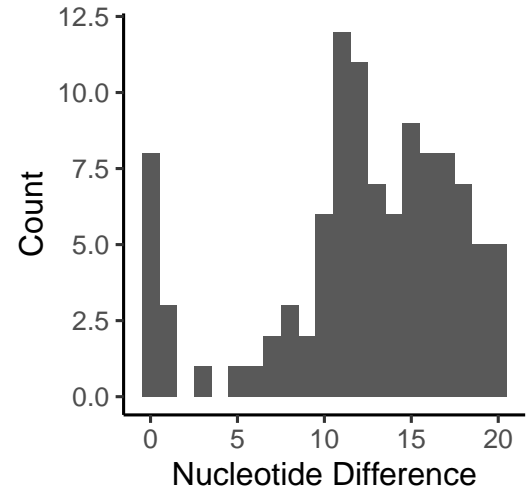
IGHV2-5*02

218 sequences assigned
28 (12.8%) exact matches, in which:
28 unique CDR3
4 unique J



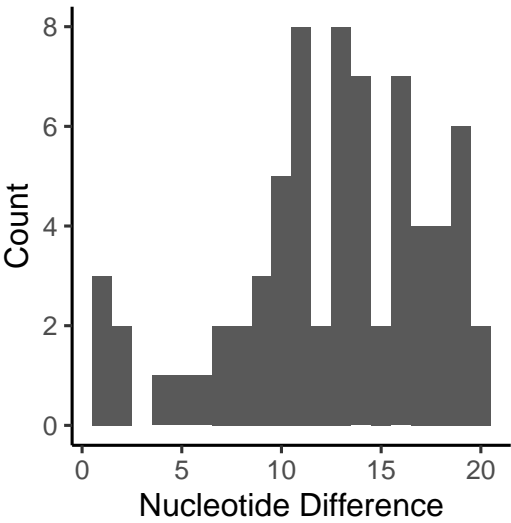
IGHV3-7*01

149 sequences assigned
8 (5.4%) exact matches, in which:
8 unique CDR3
6 unique J



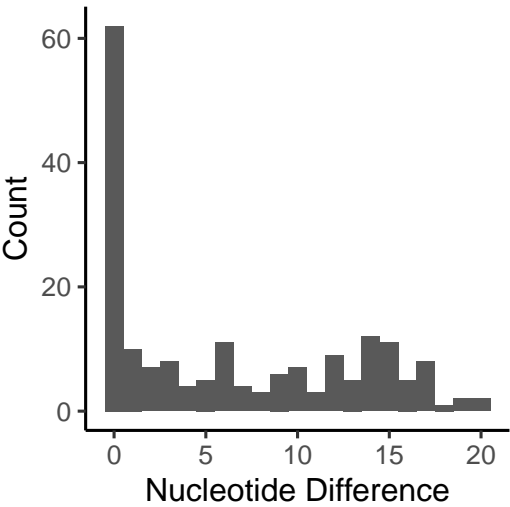
IGHV3-7*04

101 sequences assigned
No exact matches.



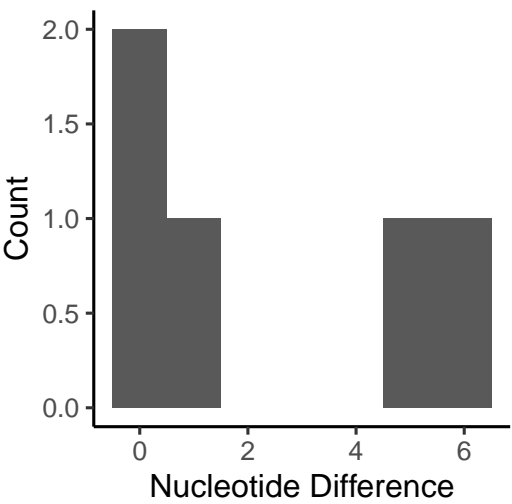
IGHV3-11*05

249 sequences assigned
62 (24.9%) exact matches, in which:
62 unique CDR3
5 unique J



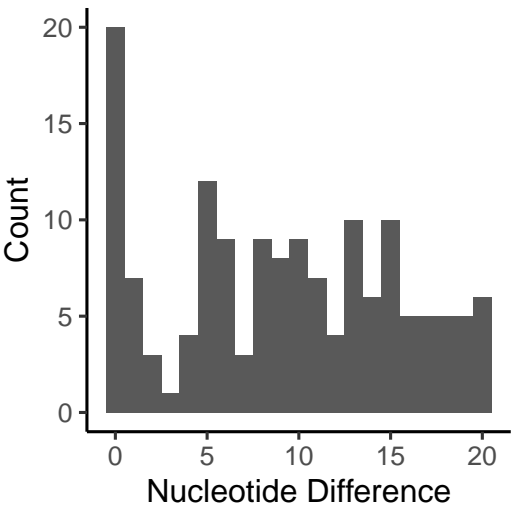
IGHV3-13*05

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
2 unique J



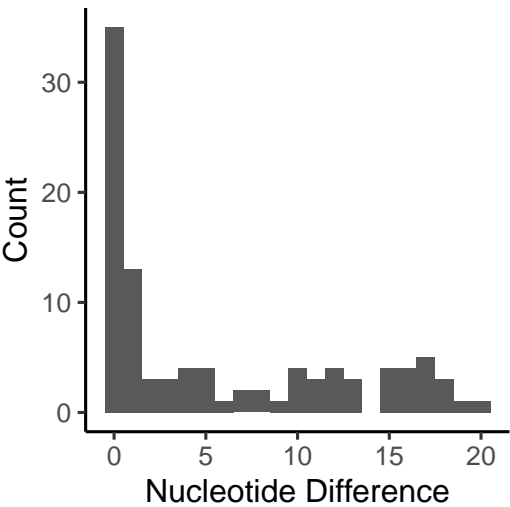
IGHV3-7*05

190 sequences assigned
20 (10.5%) exact matches, in which:
20 unique CDR3
3 unique J



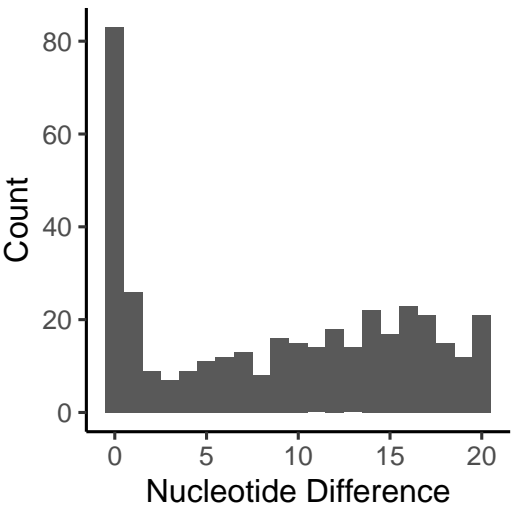
IGHV3-11*06

147 sequences assigned
35 (23.8%) exact matches, in which:
35 unique CDR3
5 unique J



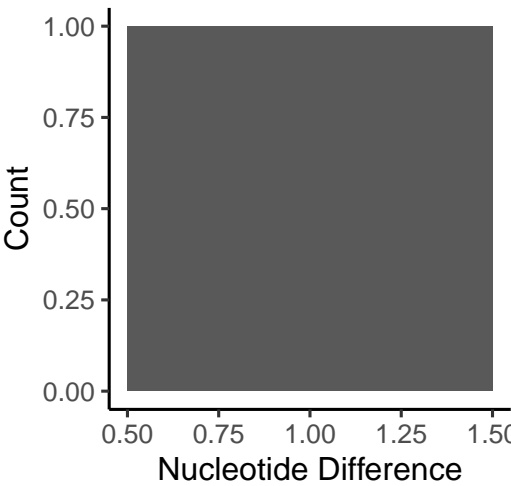
IGHV3-15*01

523 sequences assigned
83 (15.9%) exact matches, in which:
83 unique CDR3
5 unique J



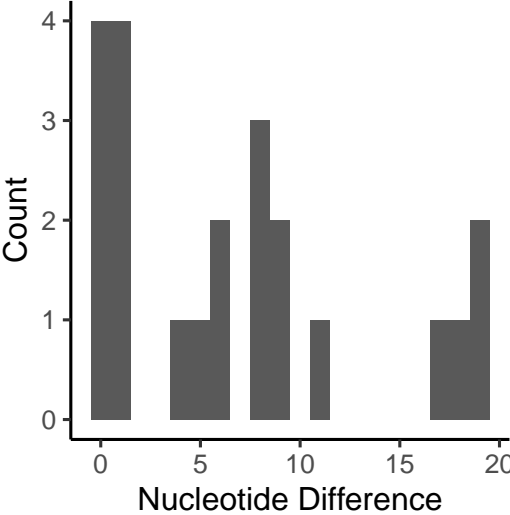
IGHV3-9*01

1 sequences assigned
No exact matches.



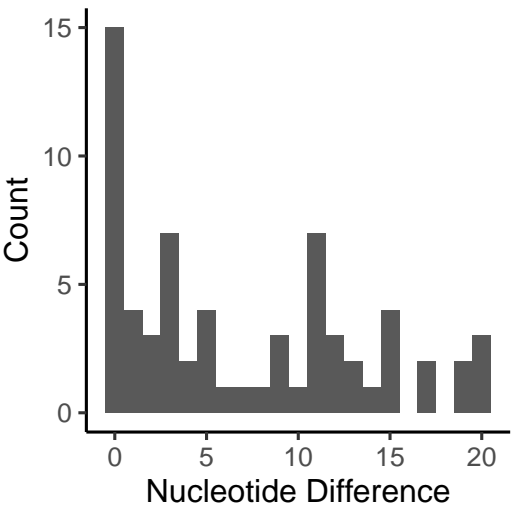
IGHV3-13*04

31 sequences assigned
4 (12.9%) exact matches, in which:
4 unique CDR3
3 unique J



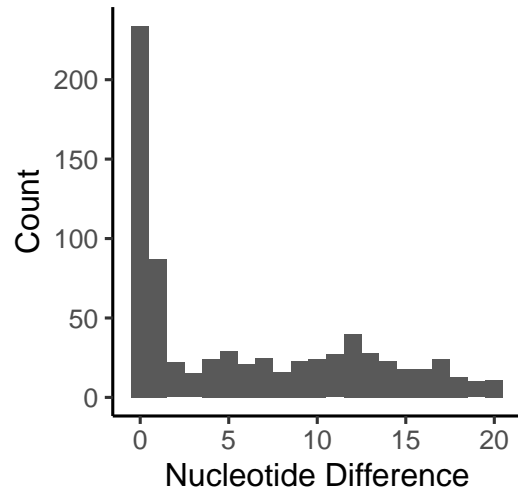
IGHV3-20*04

86 sequences assigned
15 (17.4%) exact matches, in which:
15 unique CDR3
3 unique J



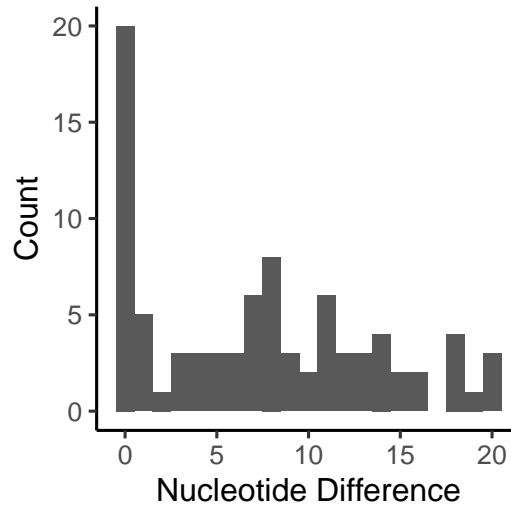
IGHV3-21*01

886 sequences assigned
234 (26.4%) exact matches, in which:
232 unique CDR3
6 unique J



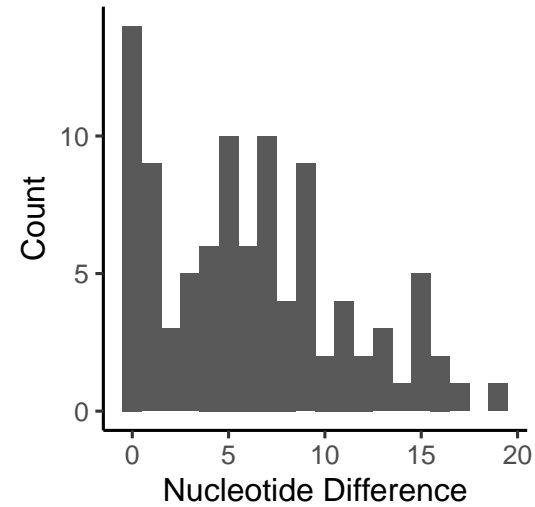
IGHV3-43*02

130 sequences assigned
20 (15.4%) exact matches, in which:
20 unique CDR3
4 unique J



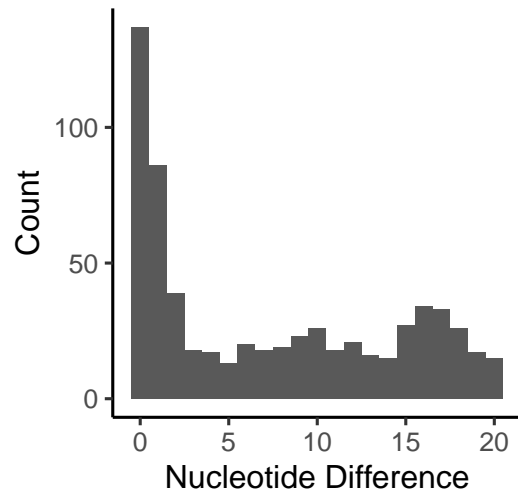
IGHV3-49*03

140 sequences assigned
14 (10%) exact matches, in which:
14 unique CDR3
4 unique J



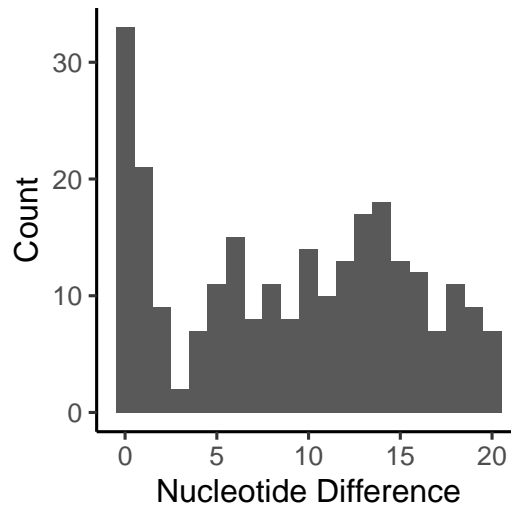
IGHV3-33*01

885 sequences assigned
137 (15.5%) exact matches, in which:
137 unique CDR3
6 unique J



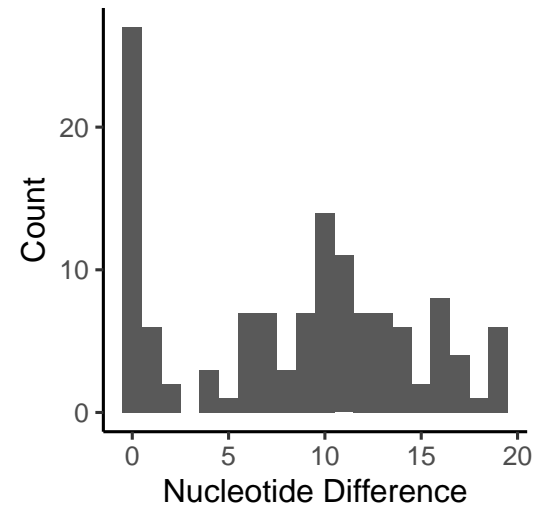
IGHV3-48*01

319 sequences assigned
33 (10.3%) exact matches, in which:
32 unique CDR3
5 unique J



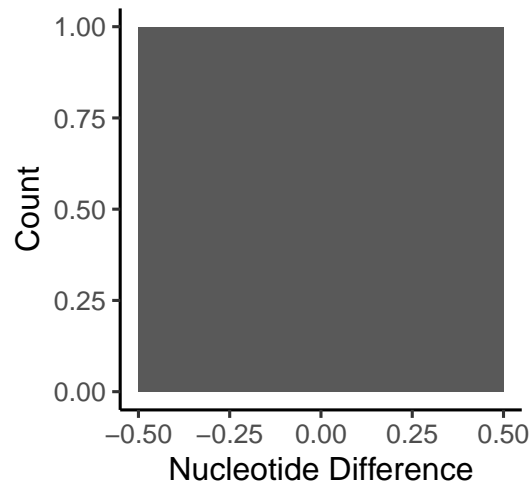
IGHV3-49*04

166 sequences assigned
27 (16.3%) exact matches, in which:
27 unique CDR3
3 unique J



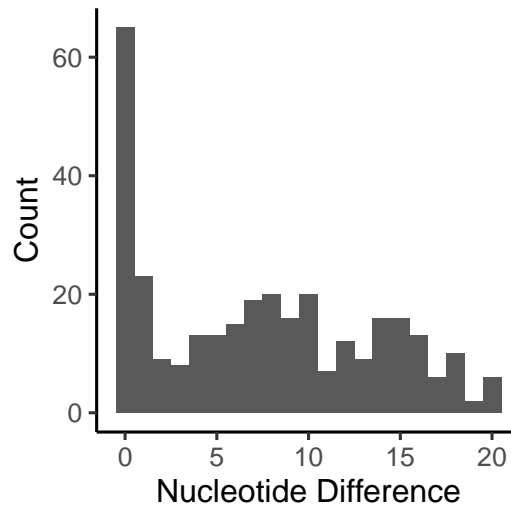
IGHV3-35*01

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



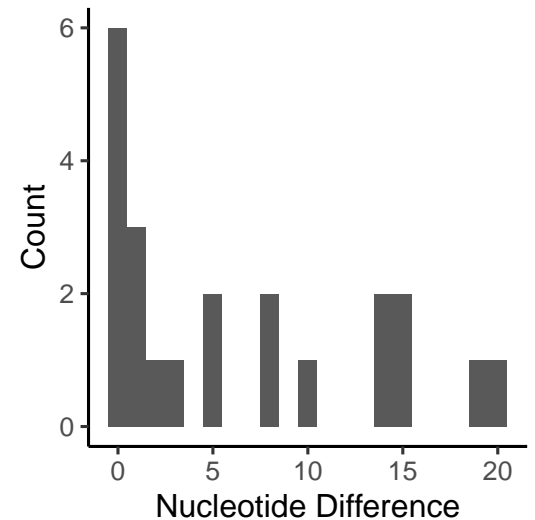
IGHV3-48*03

381 sequences assigned
65 (17.1%) exact matches, in which:
65 unique CDR3
4 unique J



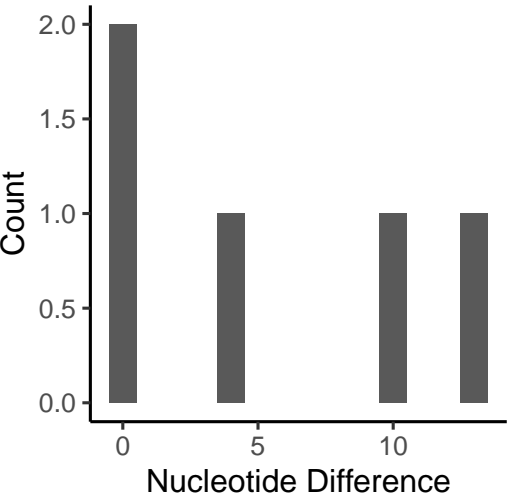
IGHV3-53*04

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



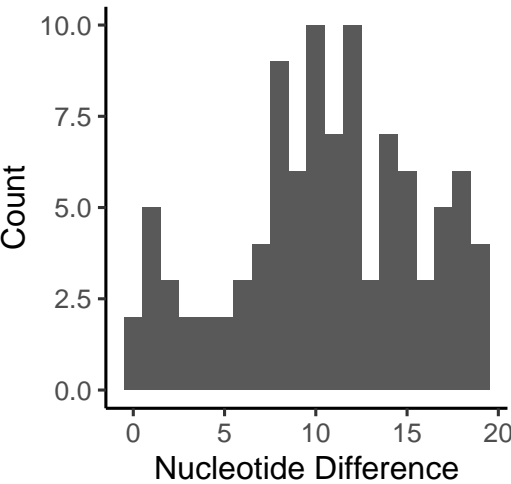
IGHV3-64*02

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
2 unique J



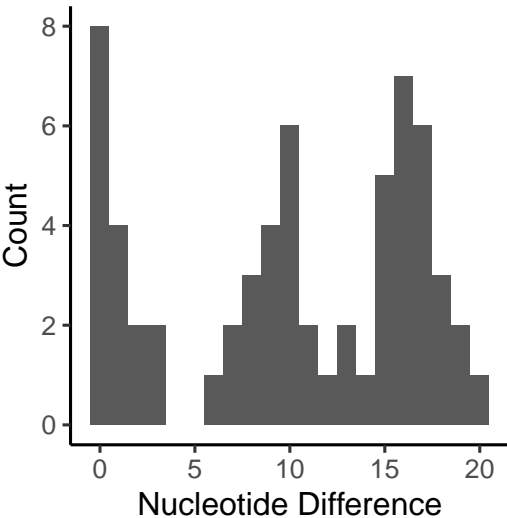
IGHV3-72*01

116 sequences assigned
2 (1.7%) exact matches, in which:
2 unique CDR3
1 unique J



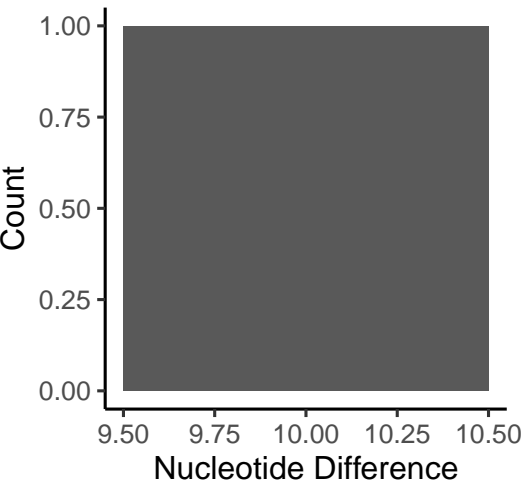
IGHV3-64D*06

75 sequences assigned
8 (10.7%) exact matches, in which:
8 unique CDR3
2 unique J



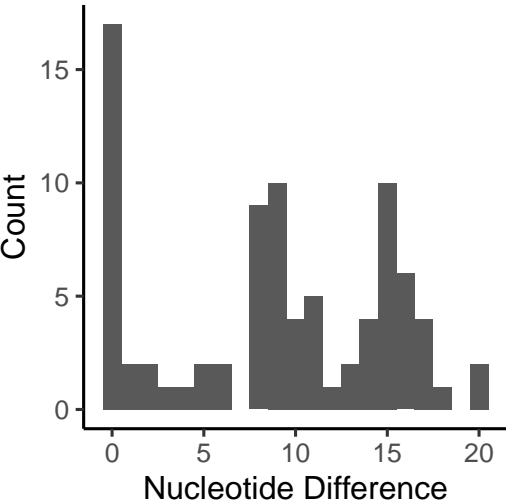
IGHV3-66*03

1 sequences assigned
No exact matches.



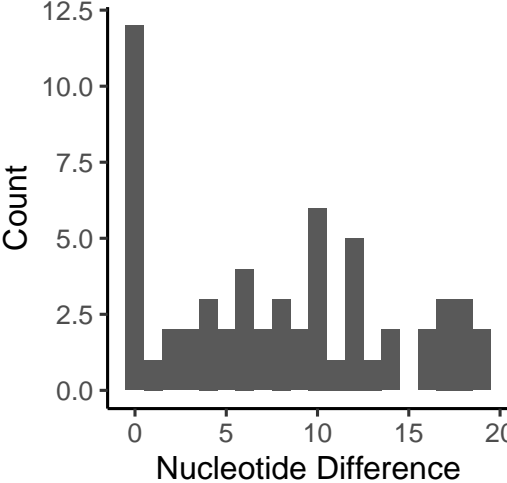
IGHV3-73*02

97 sequences assigned
17 (17.5%) exact matches, in which:
16 unique CDR3
4 unique J



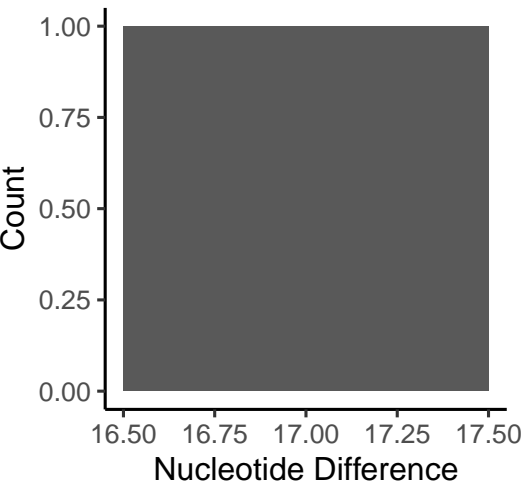
IGHV3-64D*08

76 sequences assigned
12 (15.8%) exact matches, in which:
12 unique CDR3
3 unique J



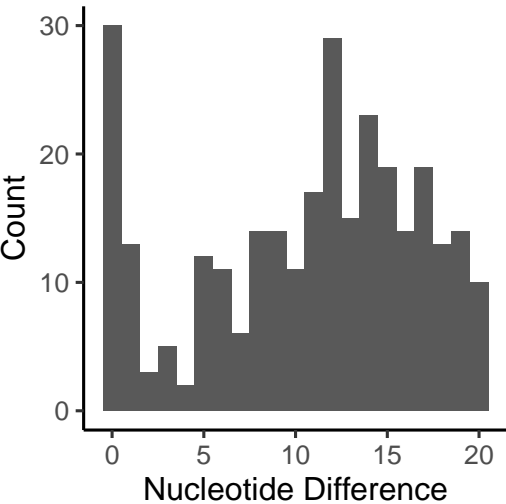
IGHV3-69-1*01

2 sequences assigned
No exact matches.



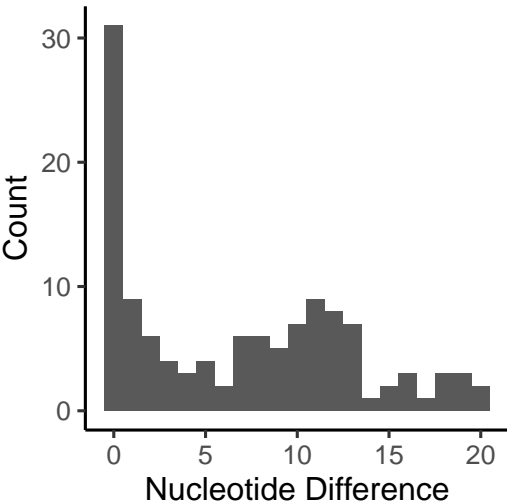
IGHV3-74*01

376 sequences assigned
30 (8%) exact matches, in which:
30 unique CDR3
5 unique J



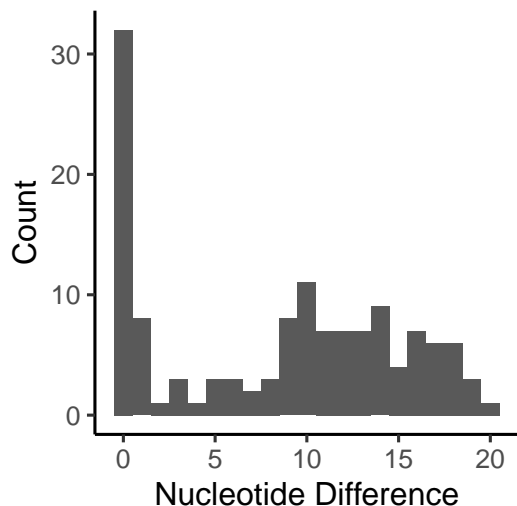
IGHV4-4*02

175 sequences assigned
31 (17.7%) exact matches, in which:
31 unique CDR3
5 unique J



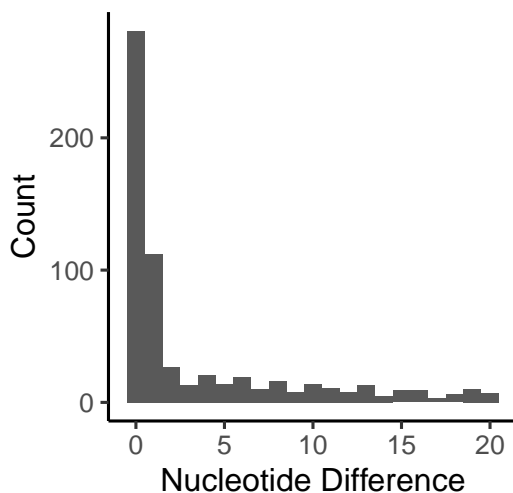
IGHV4-4*07

154 sequences assigned
32 (20.8%) exact matches, in which:
32 unique CDR3
5 unique J



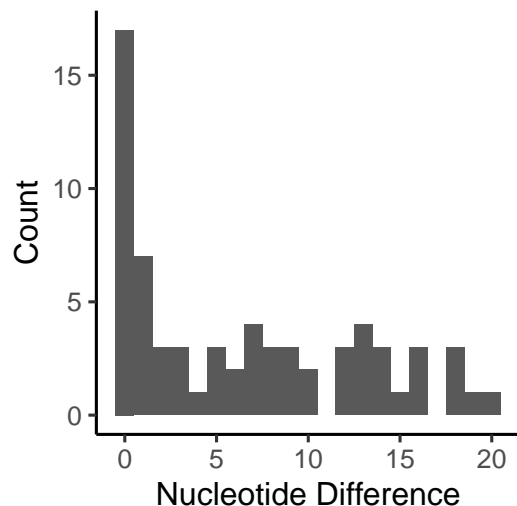
IGHV4-34*01

714 sequences assigned
281 (39.4%) exact matches, in which:
279 unique CDR3
6 unique J



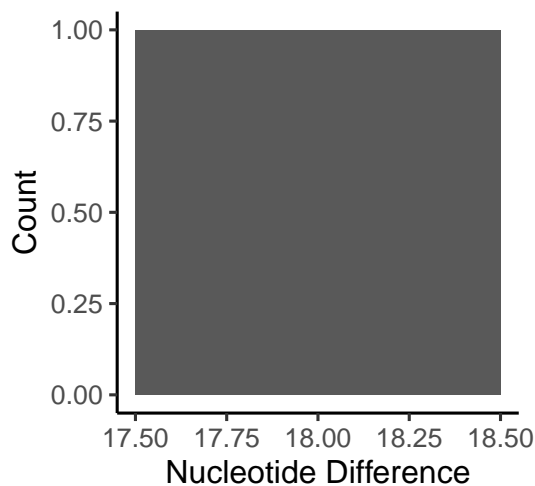
IGHV4-61*01

96 sequences assigned
17 (17.7%) exact matches, in which:
17 unique CDR3
4 unique J



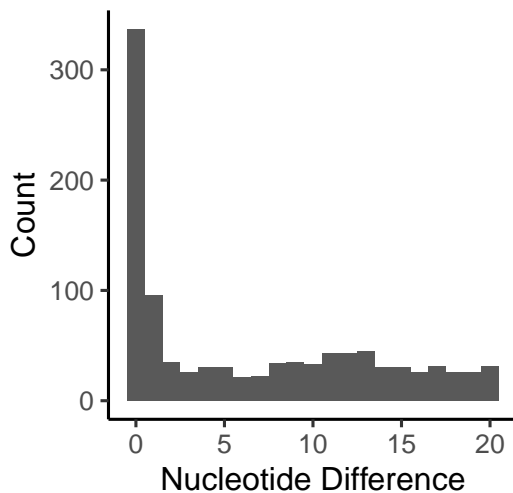
IGHV4-30-4*08

1 sequences assigned
No exact matches.



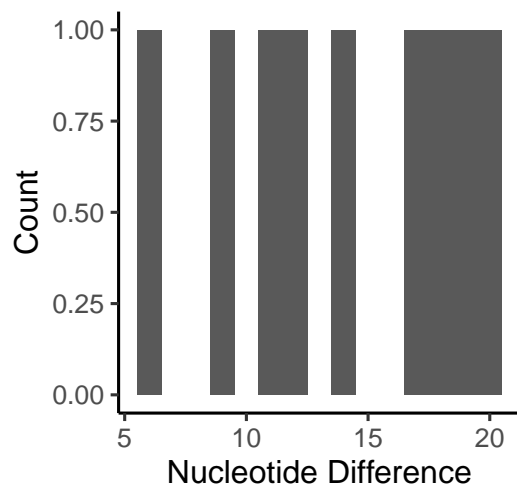
IGHV4-39*01

1327 sequences assigned
337 (25.4%) exact matches, in which:
335 unique CDR3
6 unique J



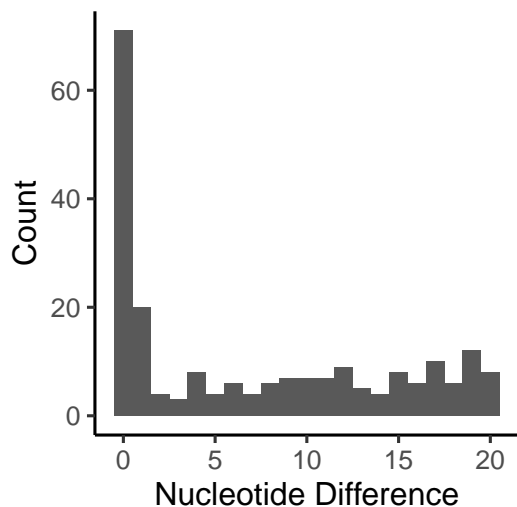
IGHV4-61*08

15 sequences assigned
No exact matches.



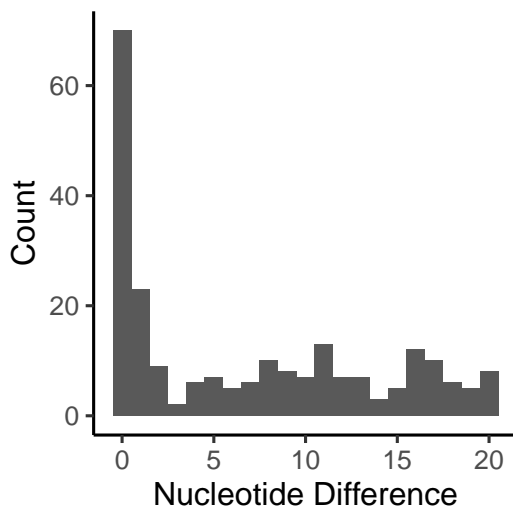
IGHV4-31*03

278 sequences assigned
71 (25.5%) exact matches, in which:
71 unique CDR3
5 unique J



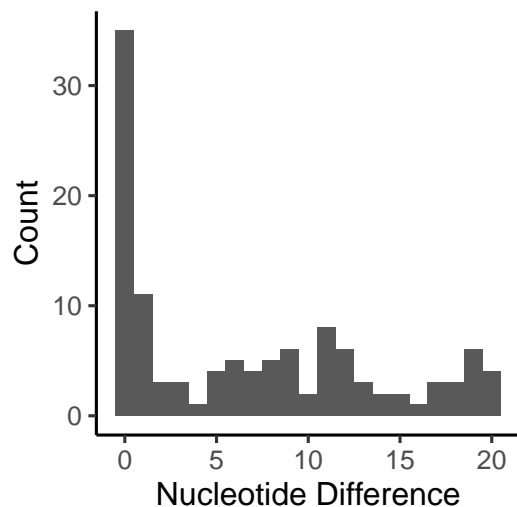
IGHV4-59*01

313 sequences assigned
70 (22.4%) exact matches, in which:
70 unique CDR3
6 unique J



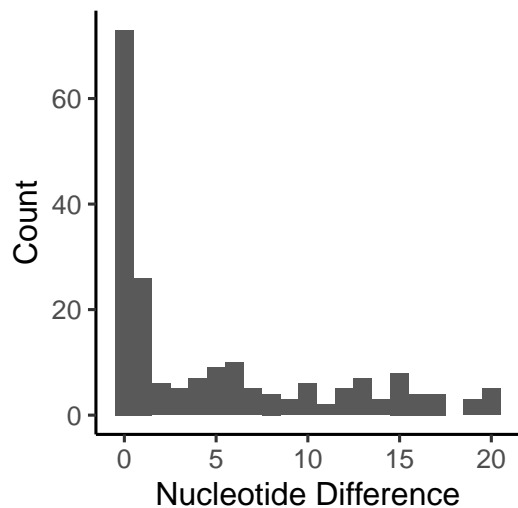
IGHV5-10-1*01

143 sequences assigned
35 (24.5%) exact matches, in which:
35 unique CDR3
5 unique J



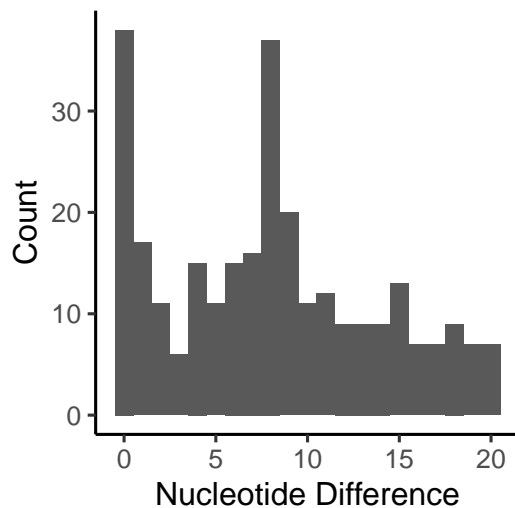
IGHV5-10-1*03

231 sequences assigned
73 (31.6%) exact matches, in which:
73 unique CDR3
4 unique J



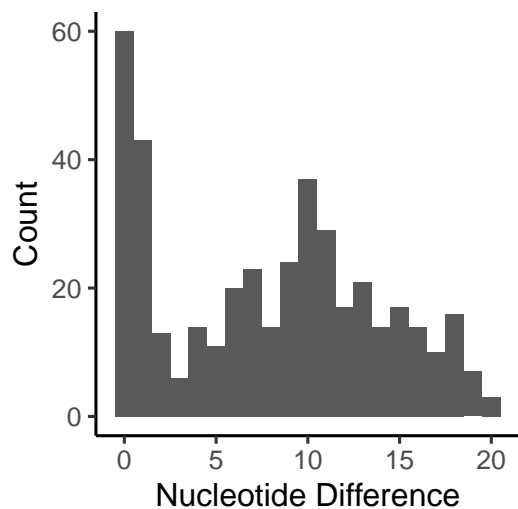
IGHV6-1*01

313 sequences assigned
38 (12.1%) exact matches, in which:
34 unique CDR3
5 unique J



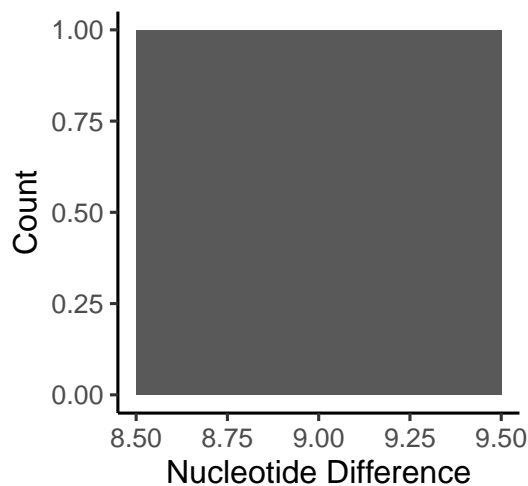
IGHV5-51*01

506 sequences assigned
60 (11.9%) exact matches, in which:
60 unique CDR3
6 unique J



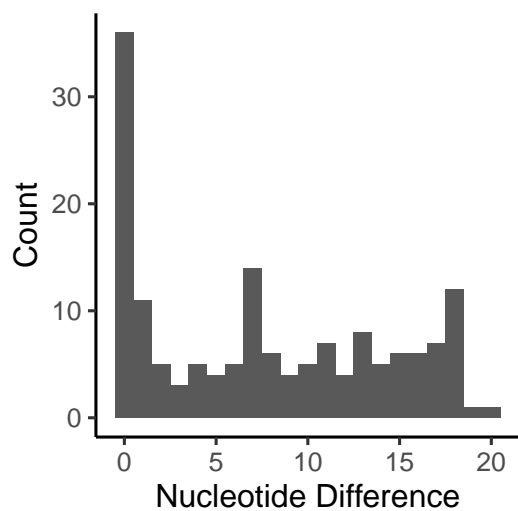
IGHV3/OR16-9*01

1 sequences assigned
No exact matches.



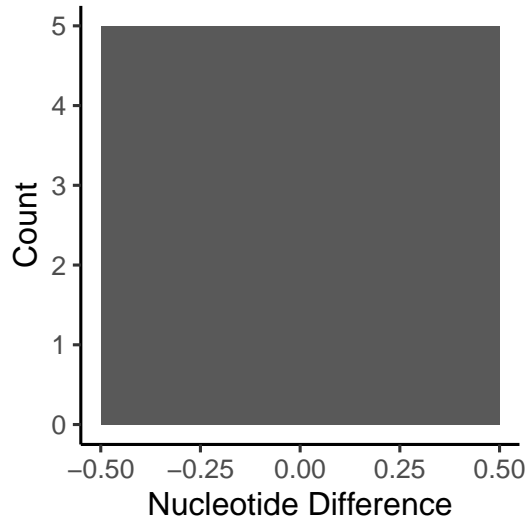
IGHV5-51*03

184 sequences assigned
36 (19.6%) exact matches, in which:
36 unique CDR3
5 unique J



IGHV7-4-1*01

5 sequences assigned
5 (100%) exact matches, in which:
5 unique CDR3
3 unique J





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