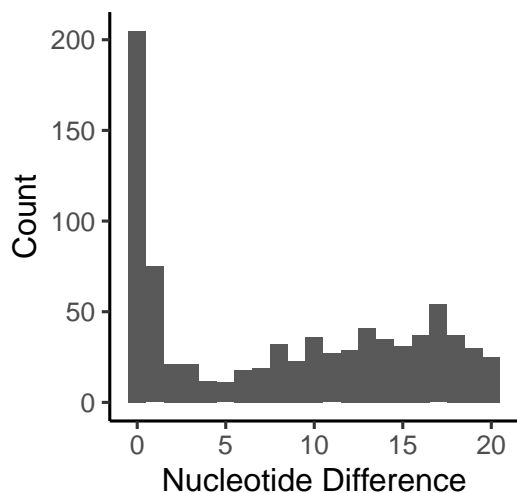


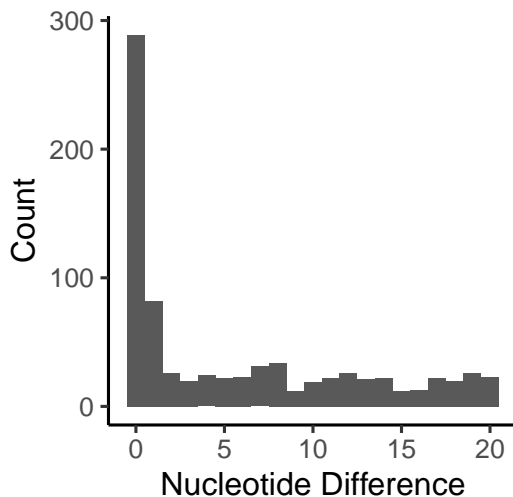
IGHV1-2*02

1407 sequences assigned
205 (14.6%) exact matches, in which:
201 unique CDR3
6 unique J



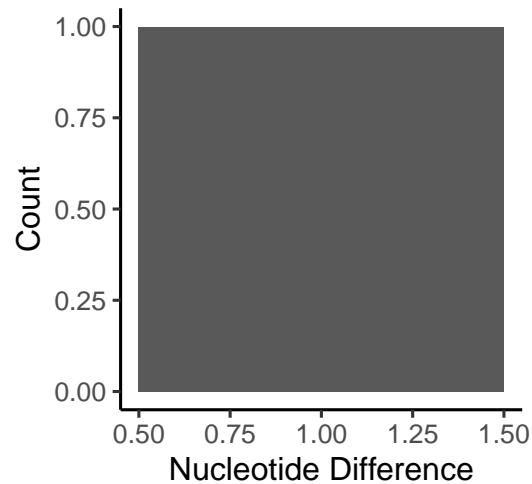
IGHV1-8*01

985 sequences assigned
289 (29.3%) exact matches, in which:
284 unique CDR3
5 unique J



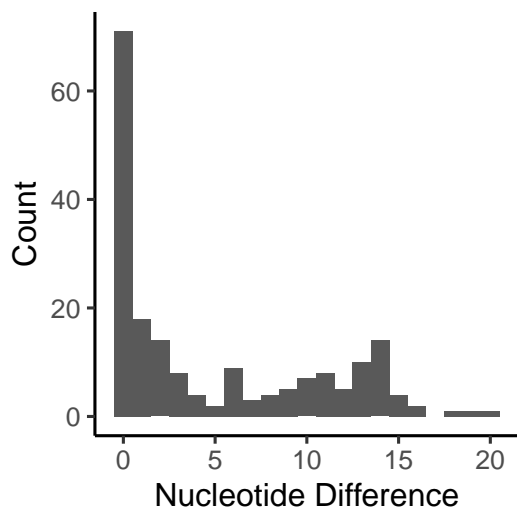
IGHV1-45*01

9 sequences assigned
No exact matches.



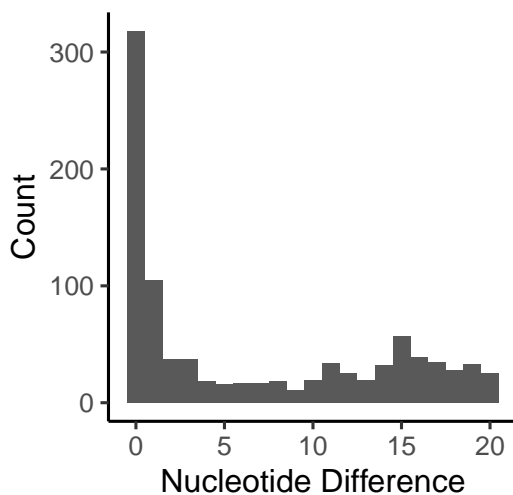
IGHV1-2*04

269 sequences assigned
71 (26.4%) exact matches, in which:
69 unique CDR3
5 unique J



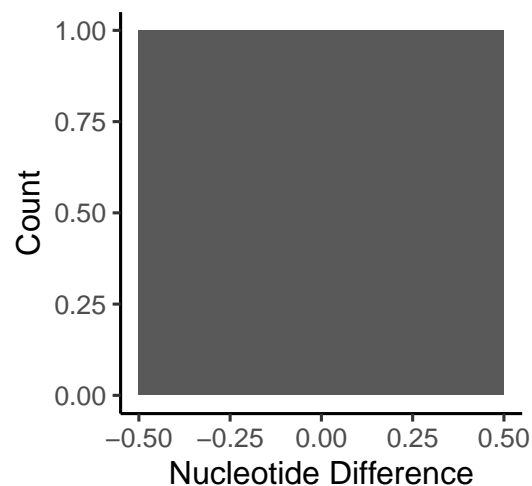
IGHV1-18*01

1528 sequences assigned
318 (20.8%) exact matches, in which:
305 unique CDR3
6 unique J



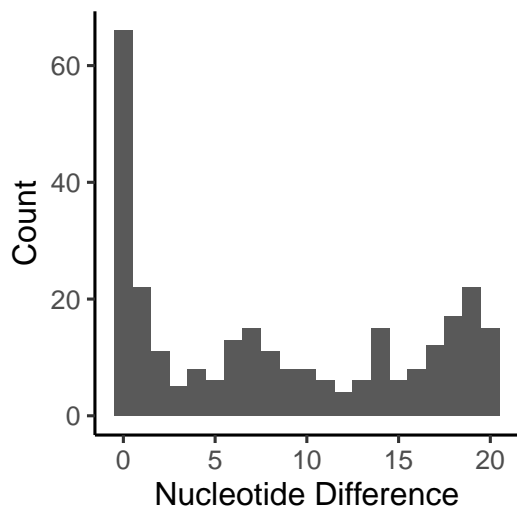
IGHV1-45*02

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



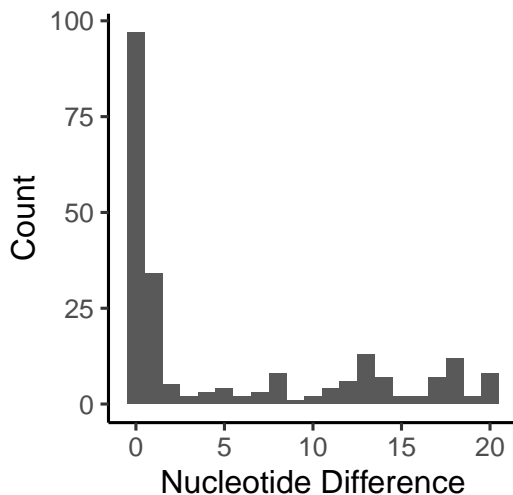
IGHV1-3*01

453 sequences assigned
66 (14.6%) exact matches, in which:
64 unique CDR3
5 unique J



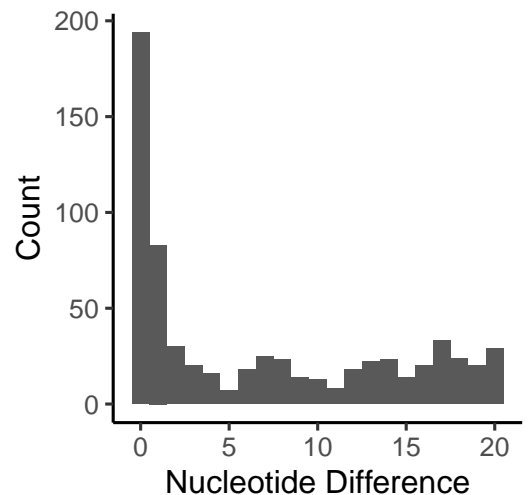
IGHV1-24*01

305 sequences assigned
97 (31.8%) exact matches, in which:
92 unique CDR3
6 unique J



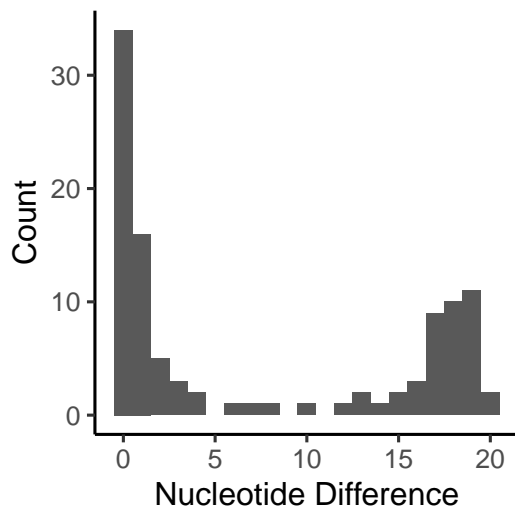
IGHV1-46*01

1122 sequences assigned
194 (17.3%) exact matches, in which:
187 unique CDR3
6 unique J



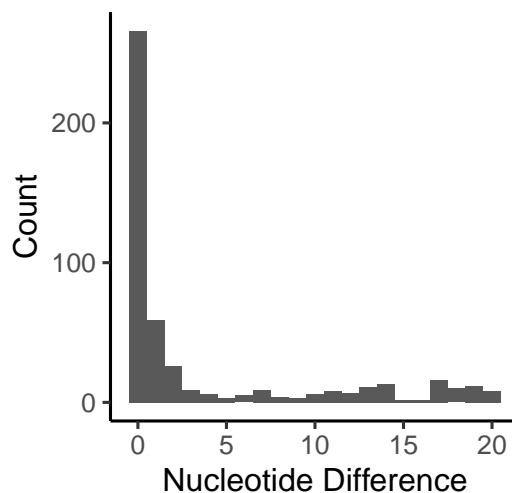
IGHV1-58*01

150 sequences assigned
34 (22.7%) exact matches, in which:
34 unique CDR3
6 unique J



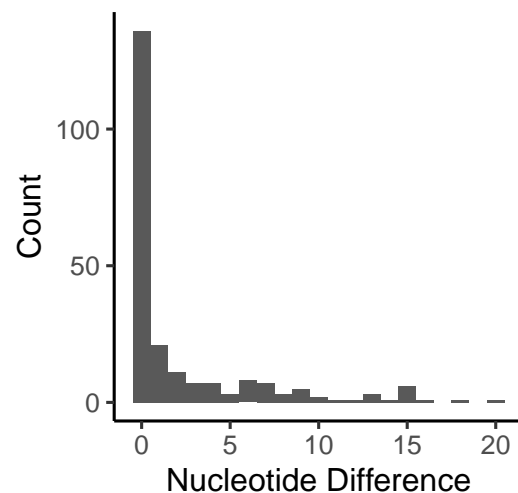
IGHV1-69*06

826 sequences assigned
266 (32.2%) exact matches, in which:
255 unique CDR3
6 unique J



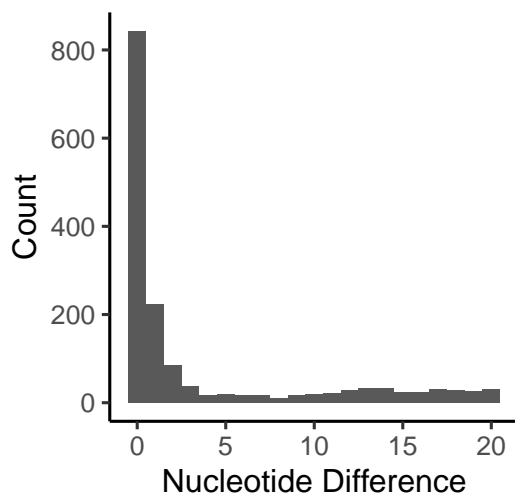
IGHV2-26*01

238 sequences assigned
136 (57.1%) exact matches, in which:
134 unique CDR3
5 unique J



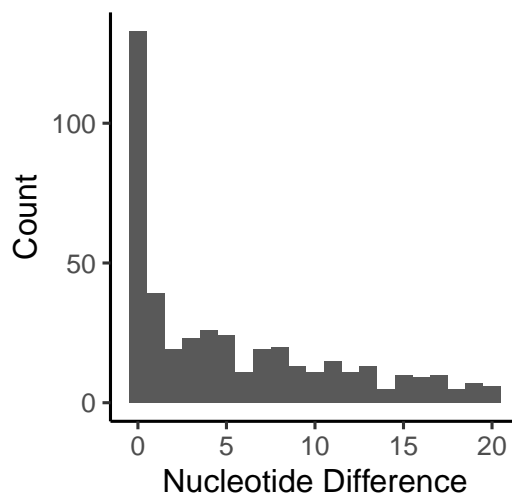
IGHV1-69*01

2191 sequences assigned
843 (38.5%) exact matches, in which:
813 unique CDR3
6 unique J



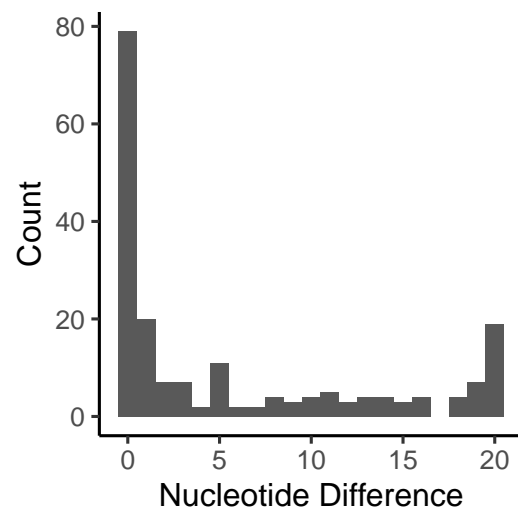
IGHV2-5*01

493 sequences assigned
133 (27%) exact matches, in which:
127 unique CDR3
6 unique J



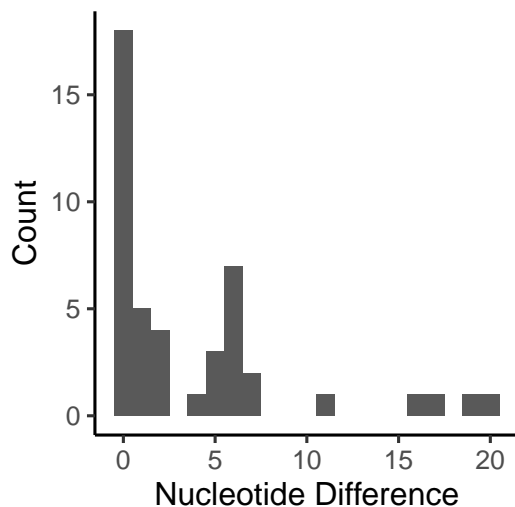
IGHV2-70*01

259 sequences assigned
79 (30.5%) exact matches, in which:
77 unique CDR3
4 unique J



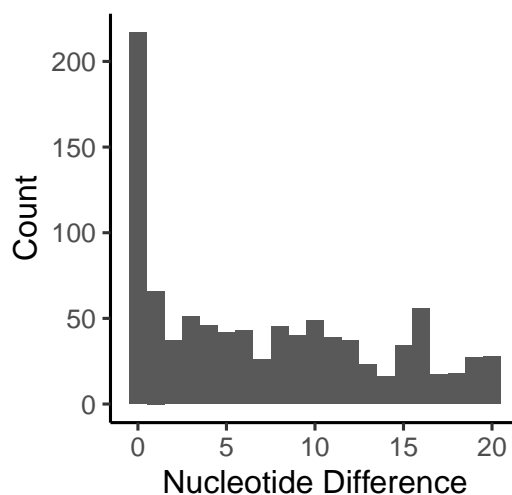
IGHV1-69-2*01

99 sequences assigned
18 (18.2%) exact matches, in which:
17 unique CDR3
4 unique J



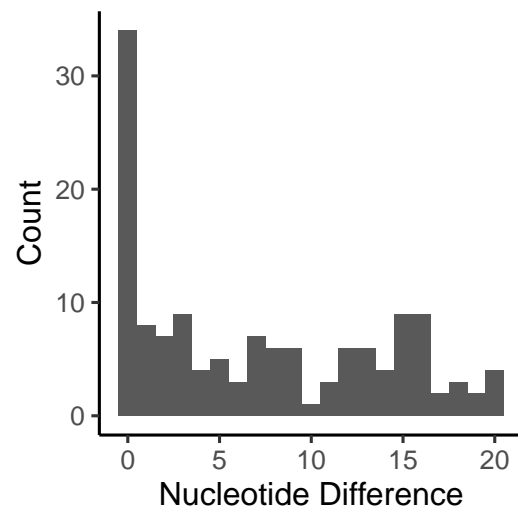
IGHV2-5*02

1229 sequences assigned
217 (17.7%) exact matches, in which:
208 unique CDR3
6 unique J



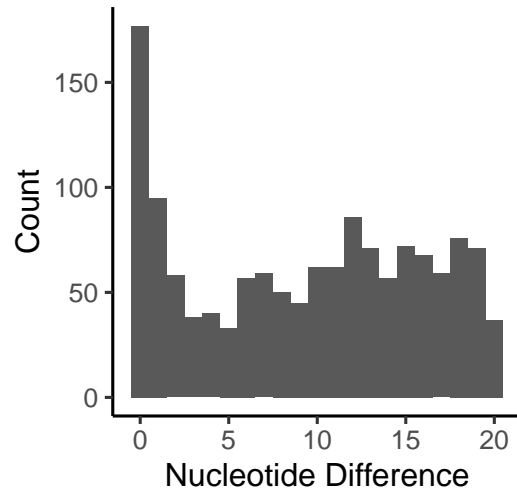
IGHV2-70*04

160 sequences assigned
34 (21.2%) exact matches, in which:
33 unique CDR3
5 unique J



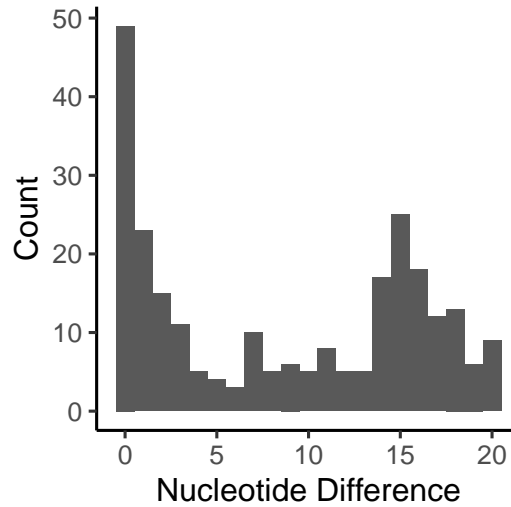
IGHV3-7*01

1920 sequences assigned
177 (9.2%) exact matches, in which:
173 unique CDR3
6 unique J



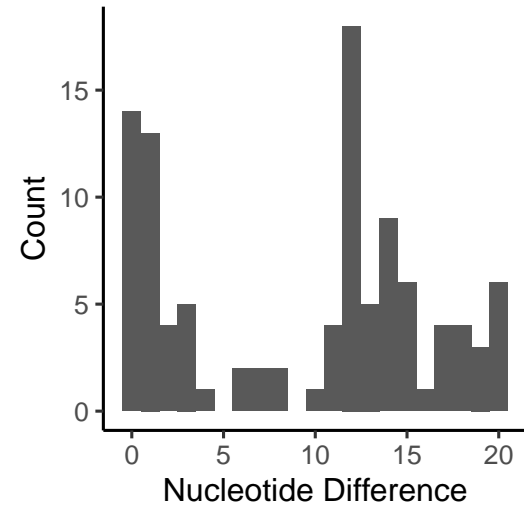
IGHV3-13*01

337 sequences assigned
49 (14.5%) exact matches, in which:
48 unique CDR3
5 unique J



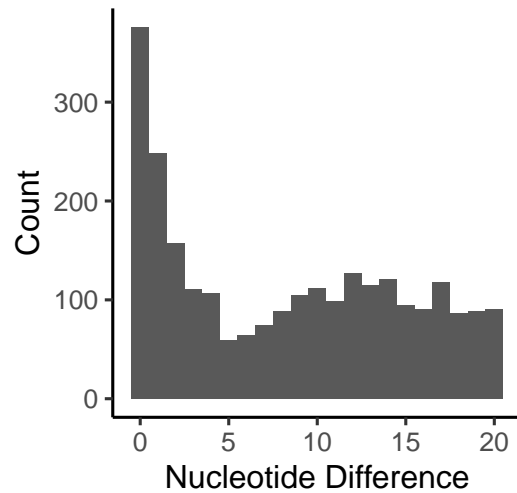
IGHV3-20*01

152 sequences assigned
14 (9.2%) exact matches, in which:
14 unique CDR3
5 unique J



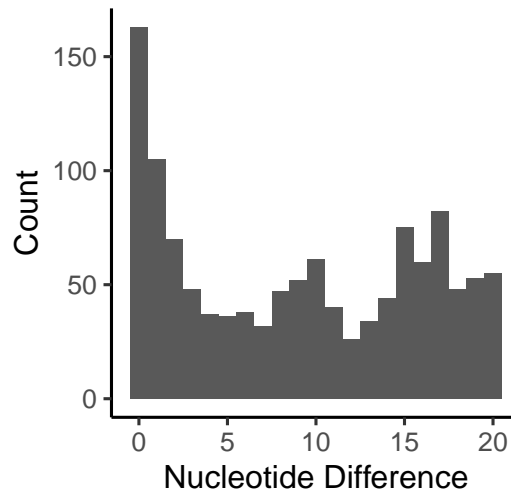
IGHV3-9*01

3407 sequences assigned
376 (11%) exact matches, in which:
365 unique CDR3
6 unique J



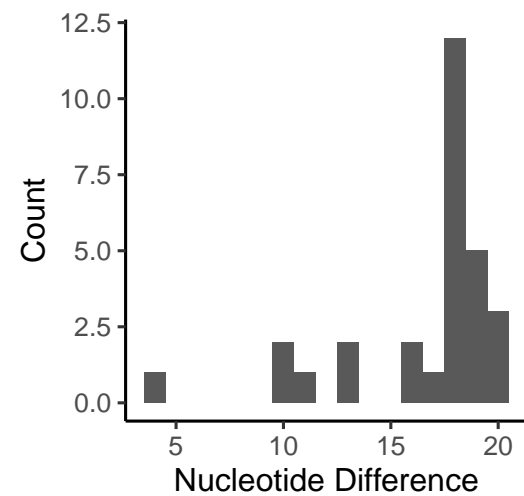
IGHV3-15*01

1783 sequences assigned
163 (9.1%) exact matches, in which:
146 unique CDR3
5 unique J



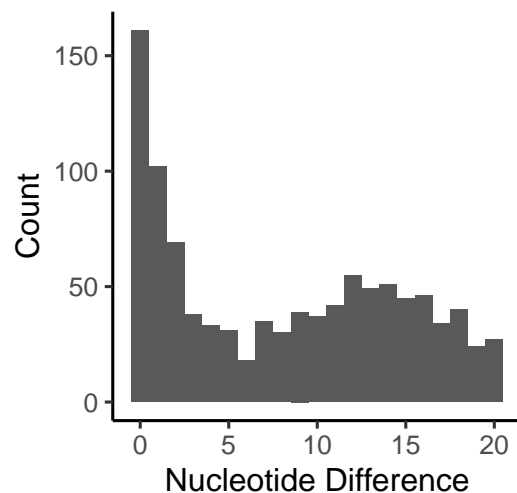
IGHV3-20*04

83 sequences assigned
No exact matches.



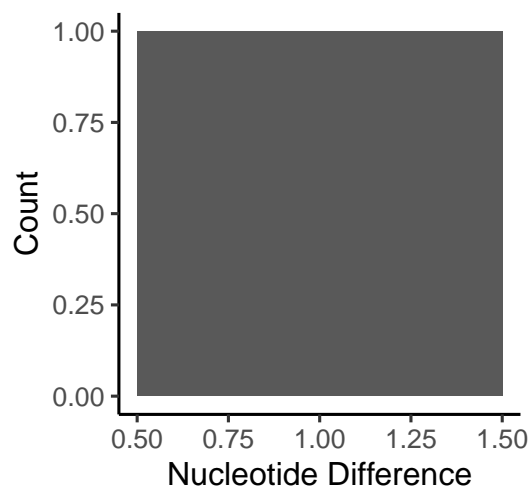
IGHV3-11*01

1548 sequences assigned
161 (10.4%) exact matches, in which:
157 unique CDR3
6 unique J



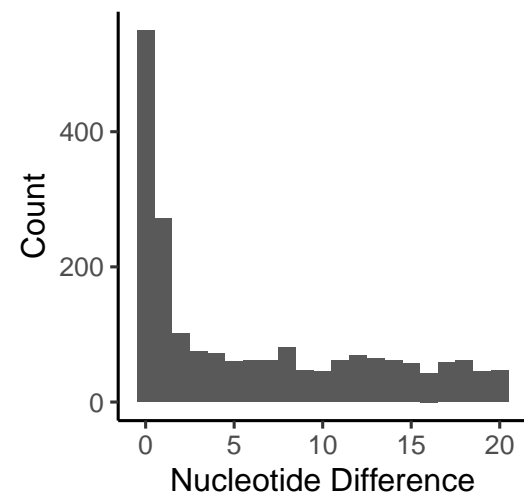
IGHV3-19*01

1 sequences assigned
No exact matches.



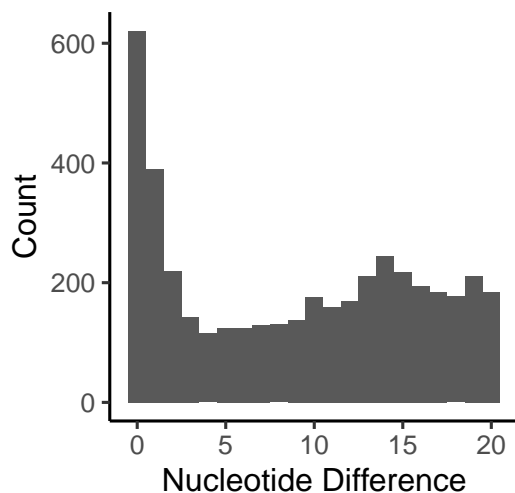
IGHV3-21*01

2792 sequences assigned
550 (19.7%) exact matches, in which:
521 unique CDR3
6 unique J



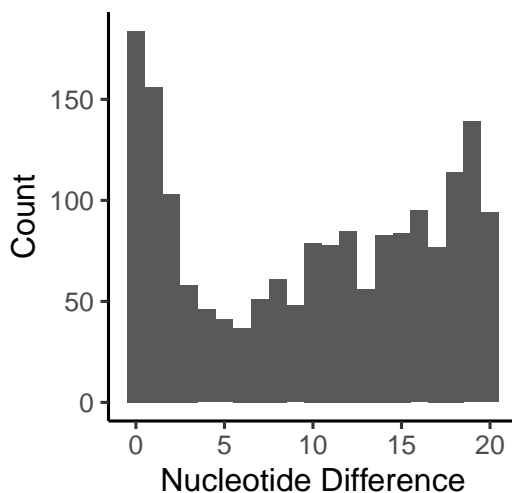
IGHV3-23*01

6904 sequences assigned
621 (9%) exact matches, in which:
607 unique CDR3
6 unique J



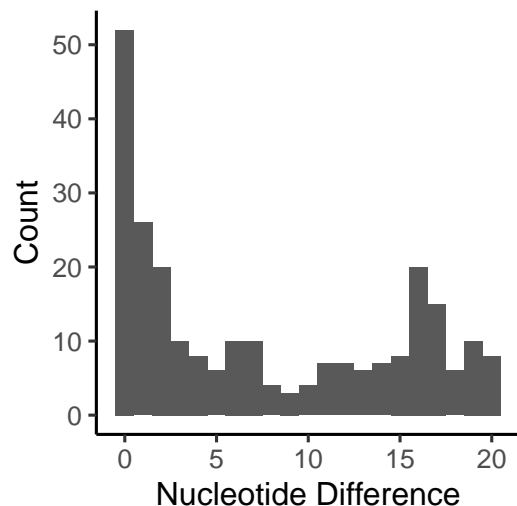
IGHV3-30*18

2916 sequences assigned
184 (6.3%) exact matches, in which:
183 unique CDR3
6 unique J



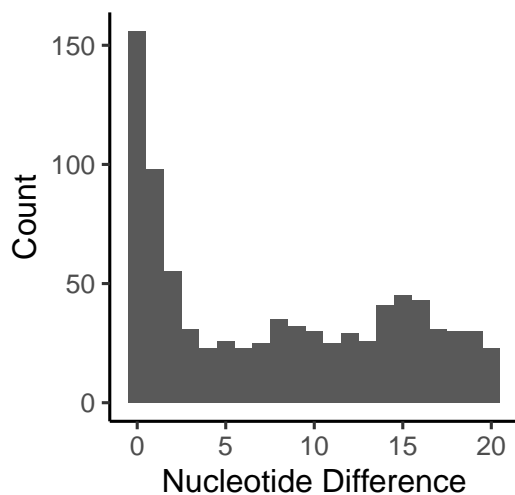
IGHV3-43*02

469 sequences assigned
52 (11.1%) exact matches, in which:
51 unique CDR3
5 unique J



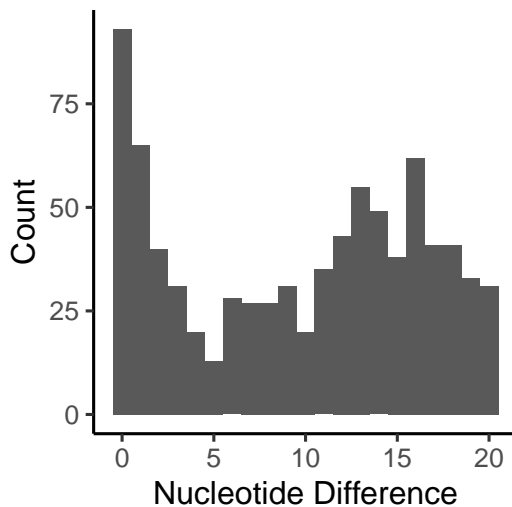
IGHV3-30-3*01

1264 sequences assigned
156 (12.3%) exact matches, in which:
150 unique CDR3
6 unique J



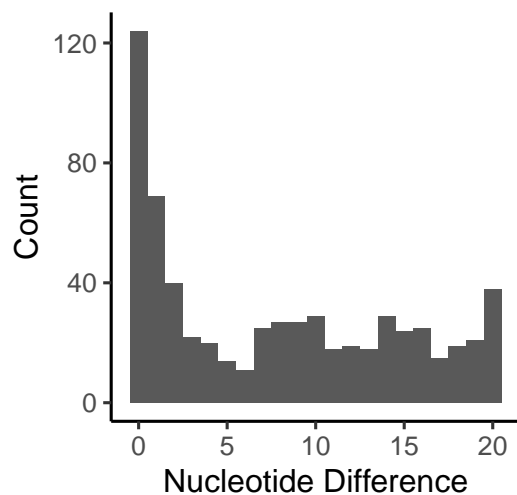
IGHV3-33*01

1230 sequences assigned
93 (7.6%) exact matches, in which:
89 unique CDR3
6 unique J



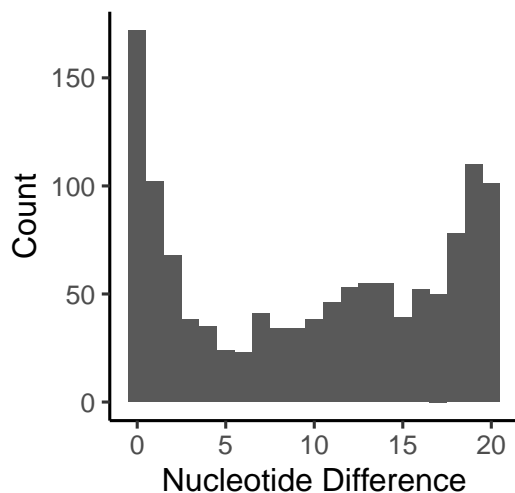
IGHV3-48*02

1106 sequences assigned
124 (11.2%) exact matches, in which:
122 unique CDR3
5 unique J



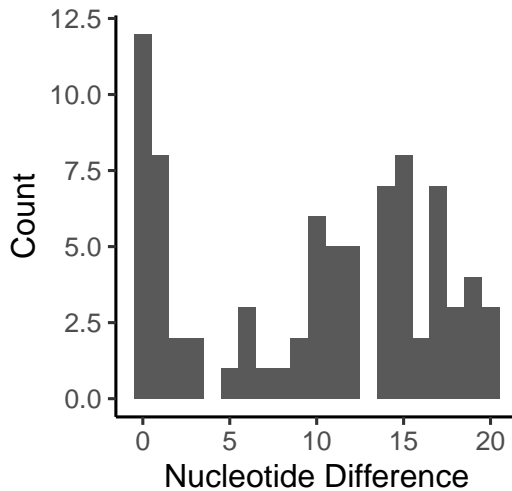
IGHV3-30*02

2188 sequences assigned
172 (7.9%) exact matches, in which:
162 unique CDR3
6 unique J



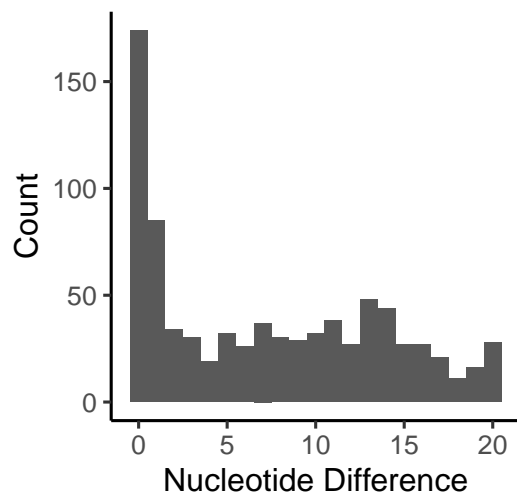
IGHV3-43*01

95 sequences assigned
12 (12.6%) exact matches, in which:
12 unique CDR3
4 unique J



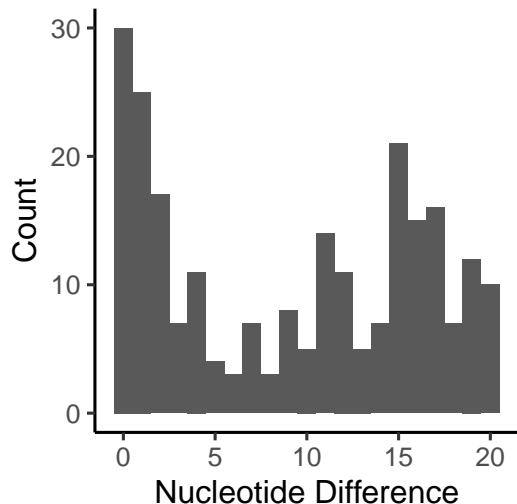
IGHV3-48*03

1158 sequences assigned
174 (15%) exact matches, in which:
166 unique CDR3
5 unique J



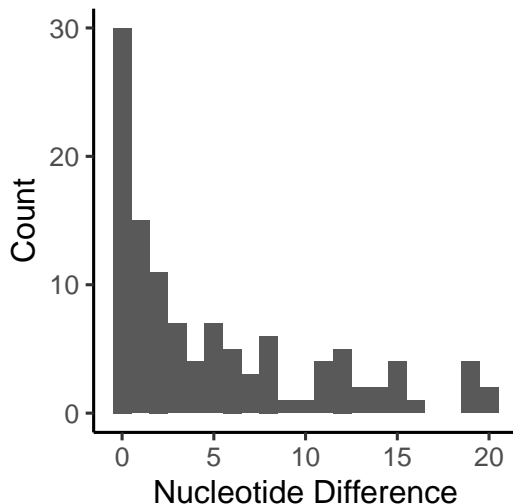
IGHV3-49*04

348 sequences assigned
30 (8.6%) exact matches, in which:
30 unique CDR3
5 unique J



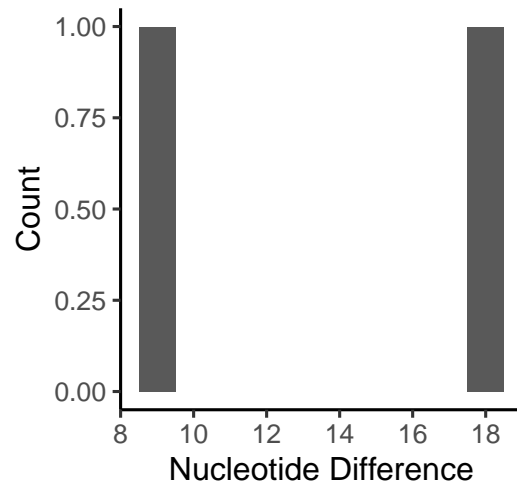
IGHV3-53*04

142 sequences assigned
30 (21.1%) exact matches, in which:
29 unique CDR3
5 unique J



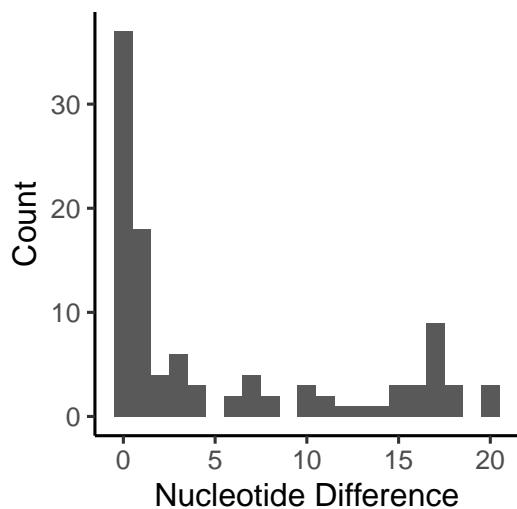
IGHV3-69-1*02

15 sequences assigned
No exact matches.



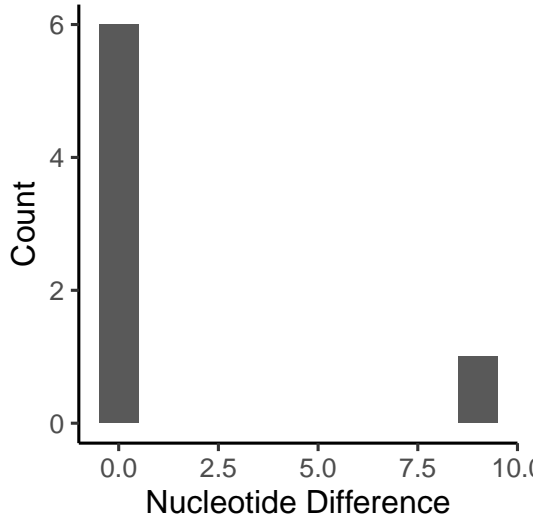
IGHV3-49*05

146 sequences assigned
37 (25.3%) exact matches, in which:
34 unique CDR3
6 unique J



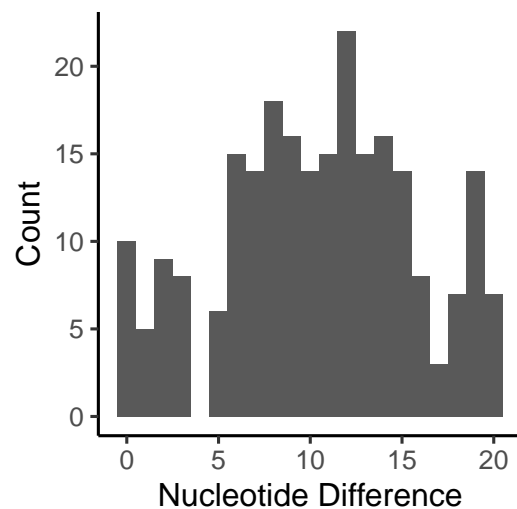
IGHV3-64*02

28 sequences assigned
6 (21.4%) exact matches, in which:
6 unique CDR3
3 unique J



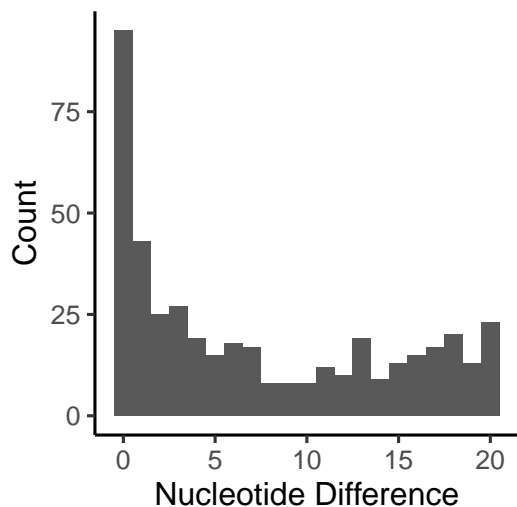
IGHV3-72*01

315 sequences assigned
10 (3.2%) exact matches, in which:
9 unique CDR3
4 unique J



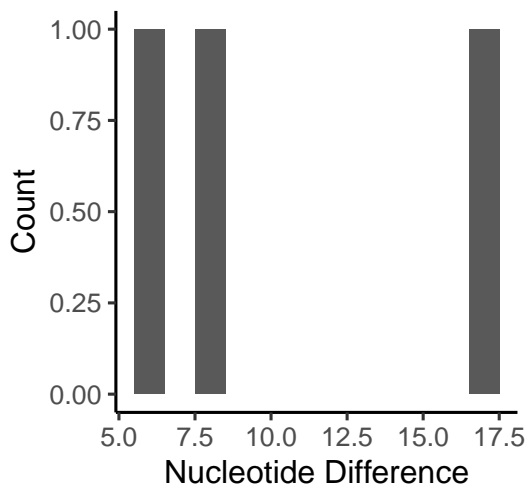
IGHV3-53*01

709 sequences assigned
95 (13.4%) exact matches, in which:
95 unique CDR3
5 unique J



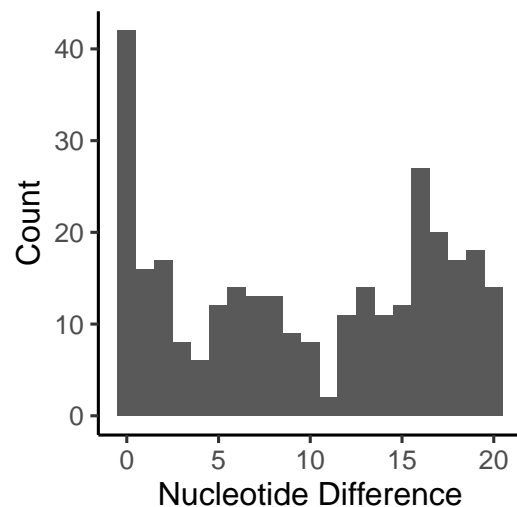
IGHV3-66*03

3 sequences assigned
No exact matches.



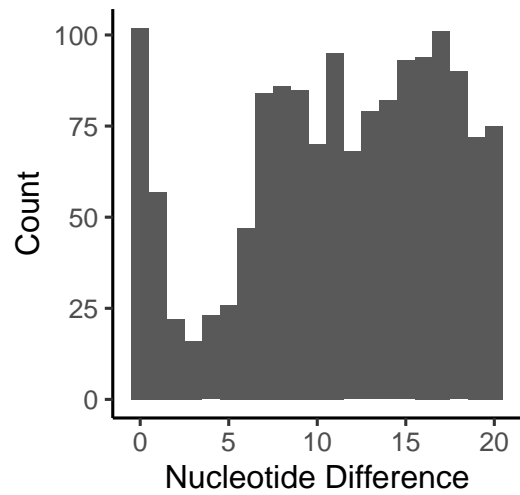
IGHV3-73*02

424 sequences assigned
42 (9.9%) exact matches, in which:
39 unique CDR3
4 unique J



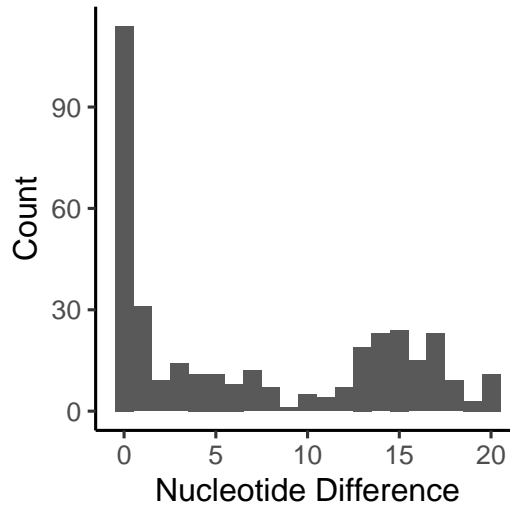
IGHV3-74*01

2140 sequences assigned
102 (4.8%) exact matches, in which:
101 unique CDR3
6 unique J



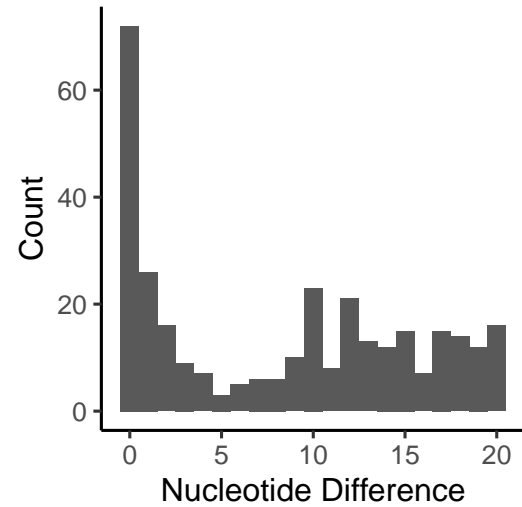
IGHV4-4*02

593 sequences assigned
114 (19.2%) exact matches, in which:
107 unique CDR3
5 unique J



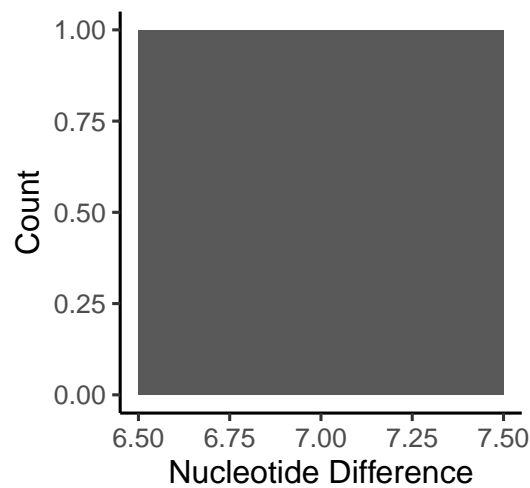
IGHV4-30-4*01

504 sequences assigned
72 (14.3%) exact matches, in which:
71 unique CDR3
5 unique J



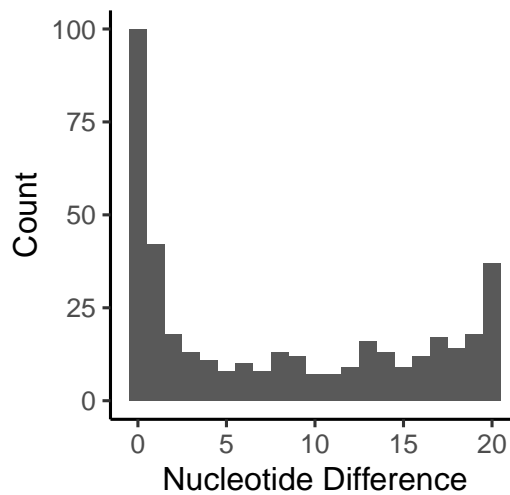
IGHV3-43D*04

1 sequences assigned
No exact matches.



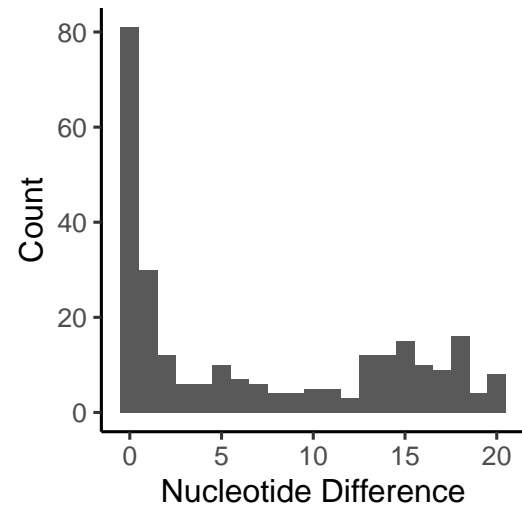
IGHV4-4*07

645 sequences assigned
100 (15.5%) exact matches, in which:
100 unique CDR3
5 unique J



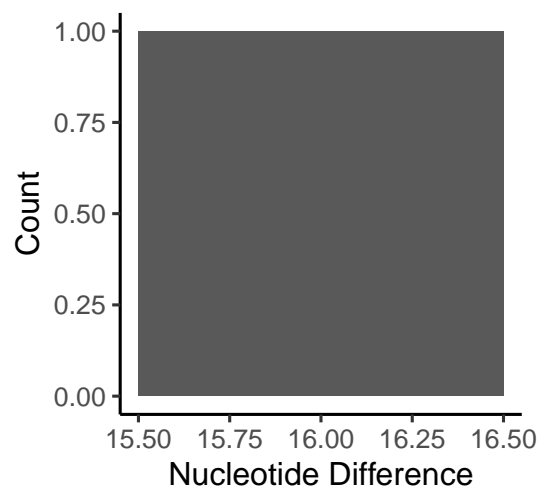
IGHV4-30-2*01

392 sequences assigned
81 (20.7%) exact matches, in which:
79 unique CDR3
6 unique J



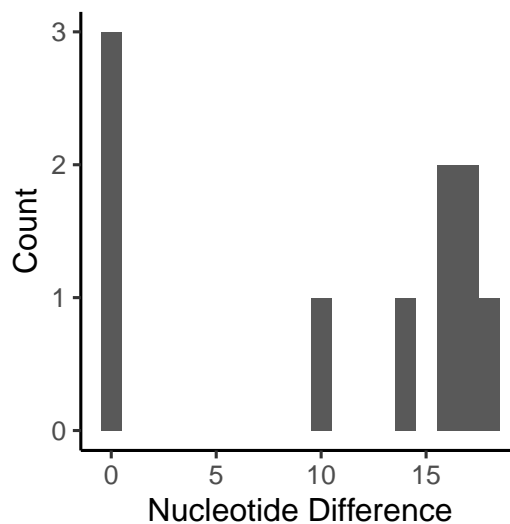
IGHV3-64D*09

1 sequences assigned
No exact matches.



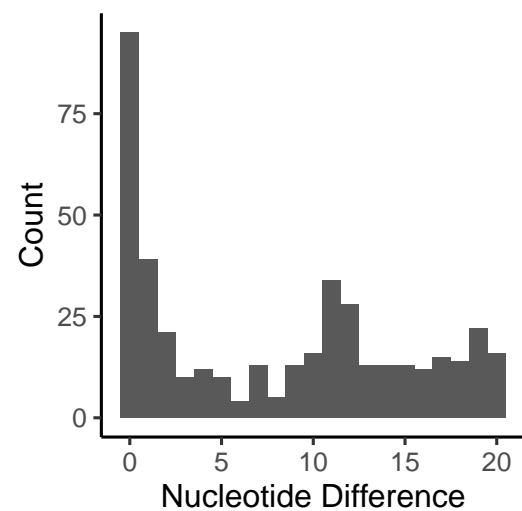
IGHV4-28*01

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



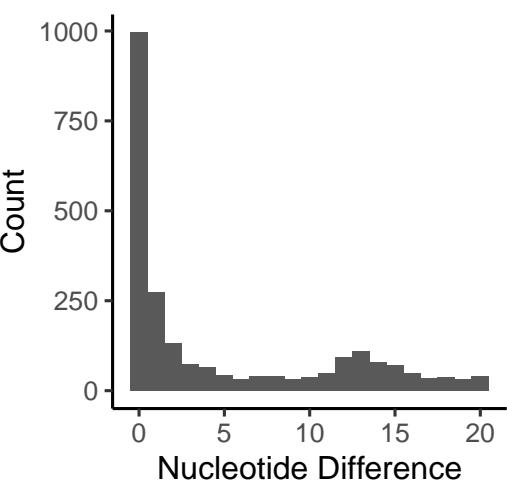
IGHV4-31*03

601 sequences assigned
95 (15.8%) exact matches, in which:
91 unique CDR3
6 unique J



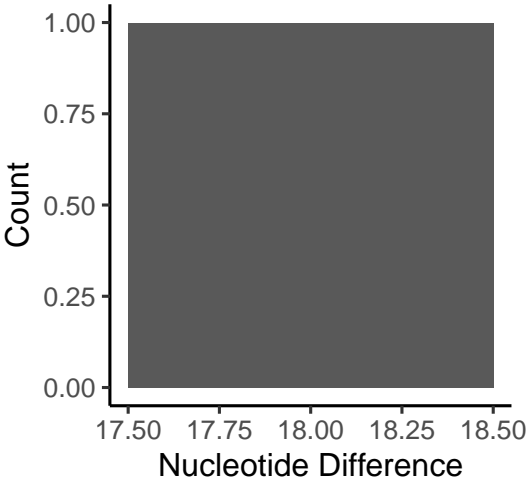
IGHV4-34*01

3075 sequences assigned
996 (32.4%) exact matches, in which:
942 unique CDR3
6 unique J



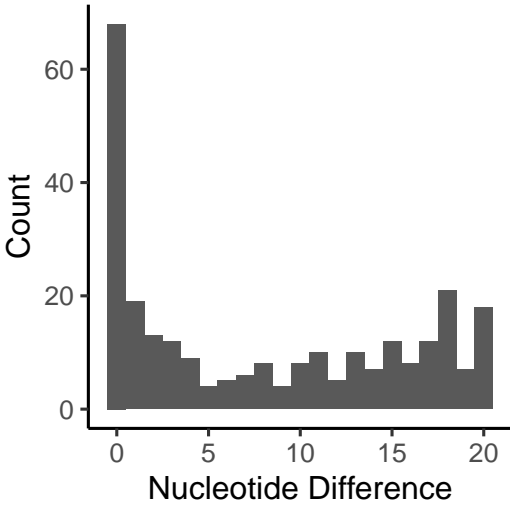
IGHV4-55*01

1 sequences assigned
No exact matches.



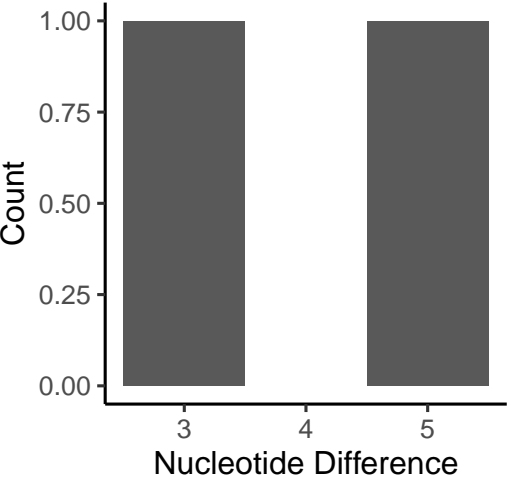
IGHV4-61*01

524 sequences assigned
68 (13%) exact matches, in which:
68 unique CDR3
6 unique J



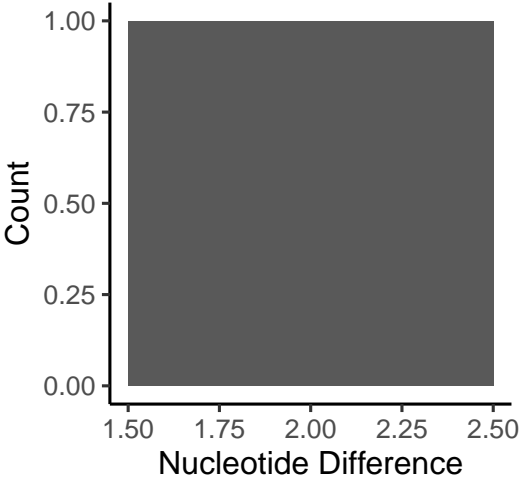
IGHV4-38-2*02

3 sequences assigned
No exact matches.



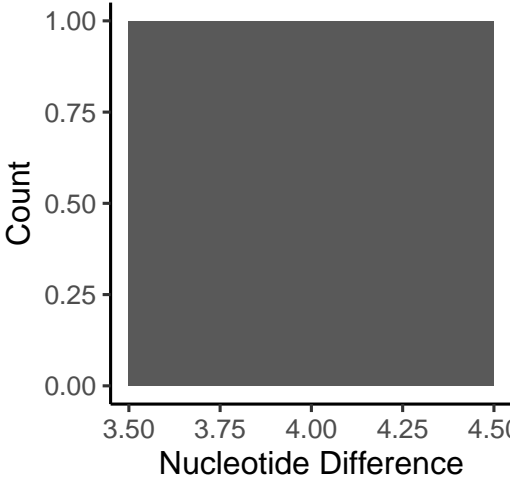
IGHV4-55*08

1 sequences assigned
No exact matches.



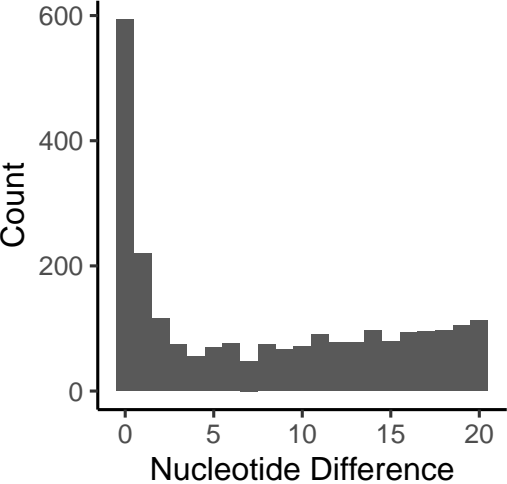
IGHV1/OR15-2*01

1 sequences assigned
No exact matches.



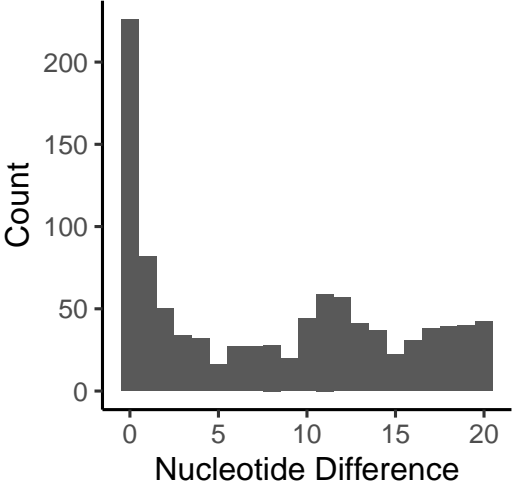
IGHV4-39*01

4087 sequences assigned
594 (14.5%) exact matches, in which:
566 unique CDR3
6 unique J



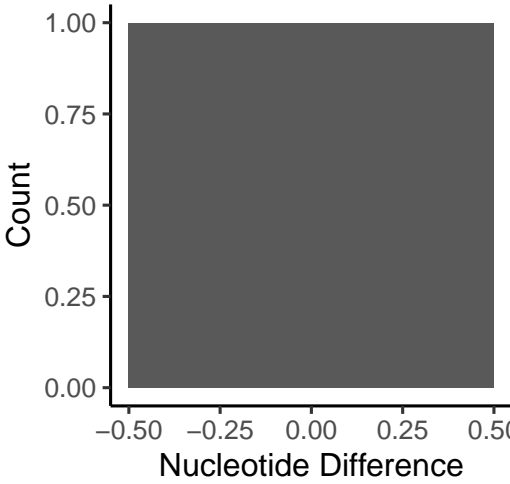
IGHV4-59*01

1441 sequences assigned
226 (15.7%) exact matches, in which:
218 unique CDR3
6 unique J



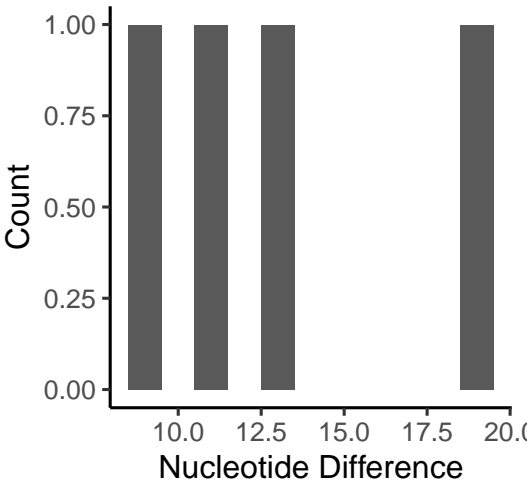
IGHV4/OR15-8*01

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



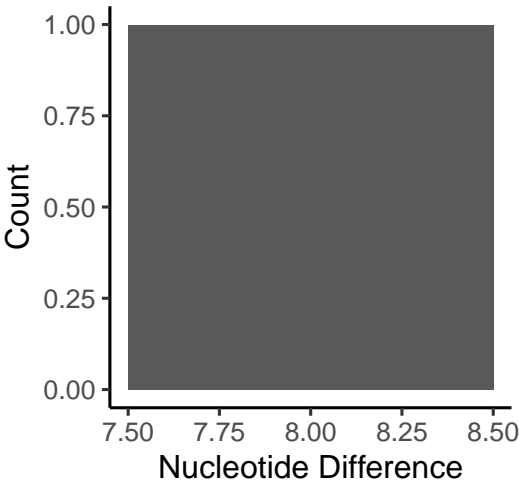
IGHV4/OR15-8*02

12 sequences assigned
No exact matches.



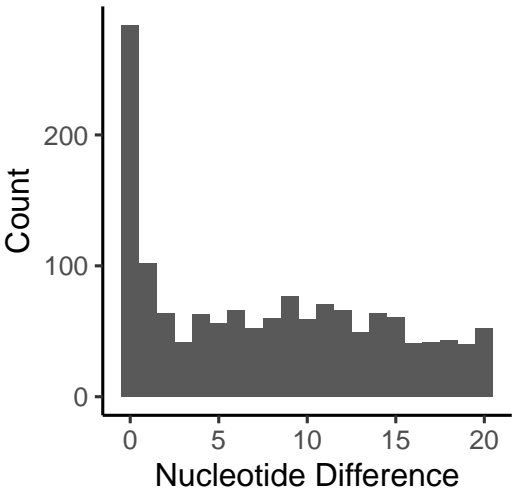
IGHV3/OR16-6*02

1 sequences assigned
No exact matches.



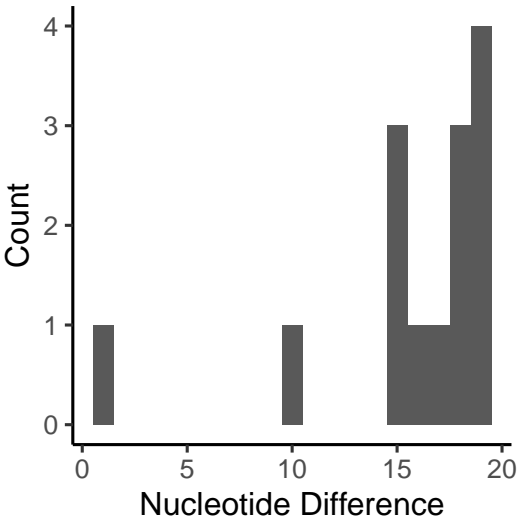
IGHV5-51*01

1885 sequences assigned
284 (15.1%) exact matches, in which:
276 unique CDR3
6 unique J



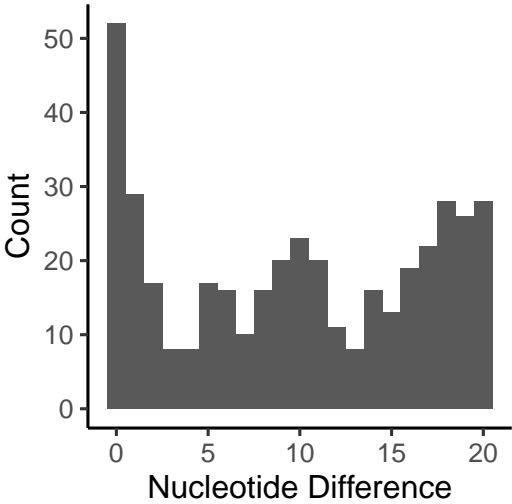
IGHV7-4-1*01

15 sequences assigned
No exact matches.



IGHV6-1*01

516 sequences assigned
52 (10.1%) exact matches, in which:
49 unique CDR3
5 unique J





Warning – no inferred sequences found.