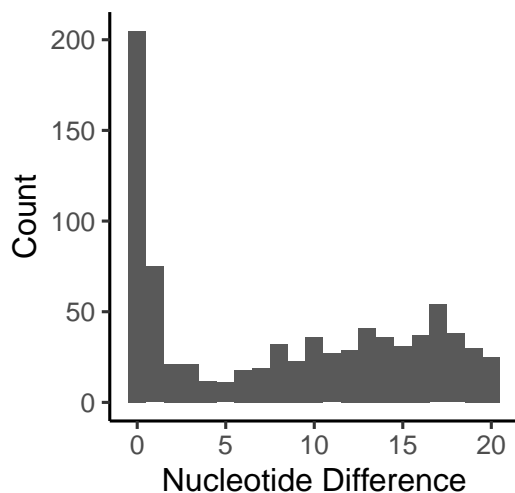


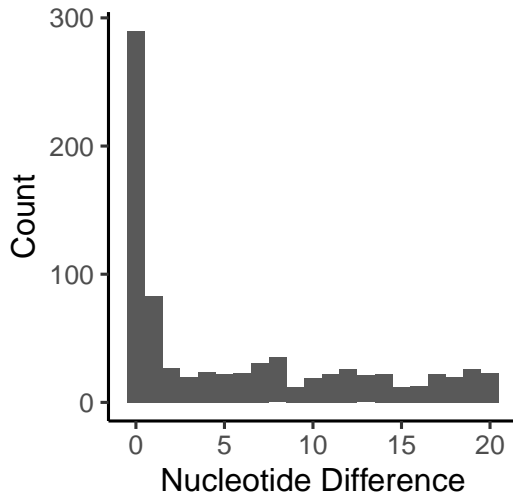
IGHV1-2*02

1414 sequences assigned
205 (14.5%) exact matches, in which:
201 unique CDR3
6 unique J



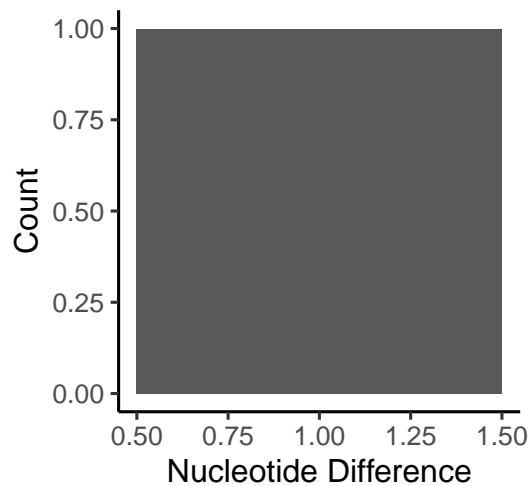
IGHV1-8*01

991 sequences assigned
290 (29.3%) exact matches, in which:
285 unique CDR3
5 unique J



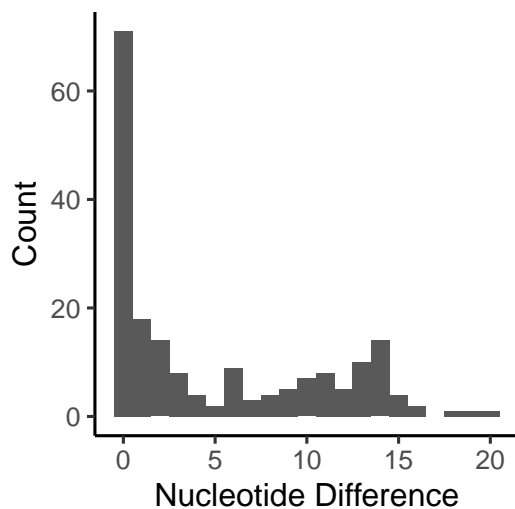
IGHV1-45*01

9 sequences assigned
No exact matches.



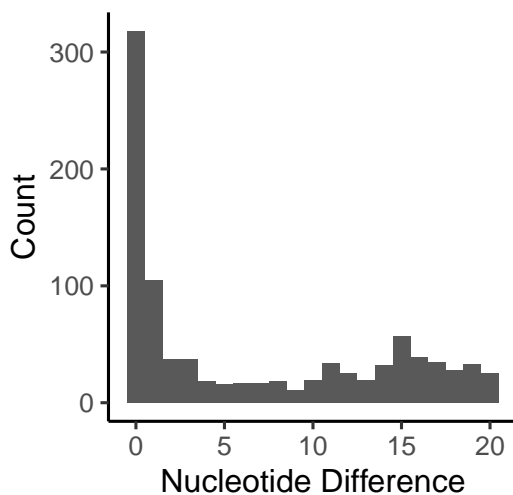
IGHV1-2*04

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



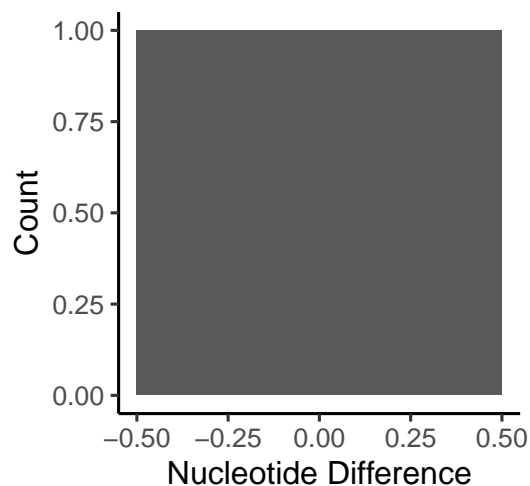
IGHV1-18*01

1530 sequences assigned
318 (20.8%) exact matches, in which:
305 unique CDR3
6 unique J



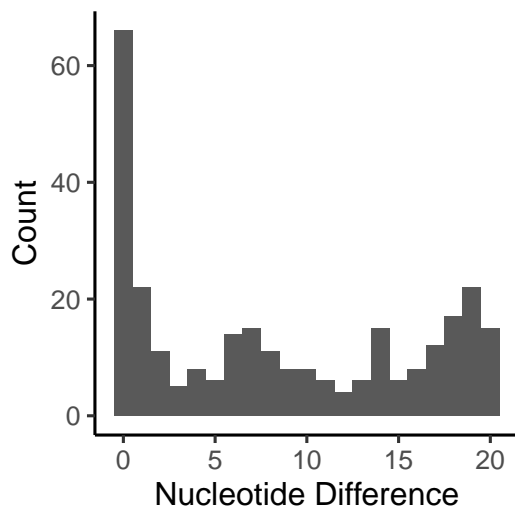
IGHV1-45*02

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



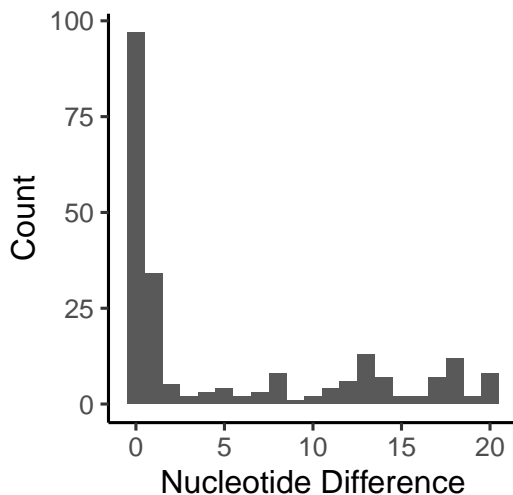
IGHV1-3*01

454 sequences assigned
66 (14.5%) exact matches, in which:
64 unique CDR3
5 unique J



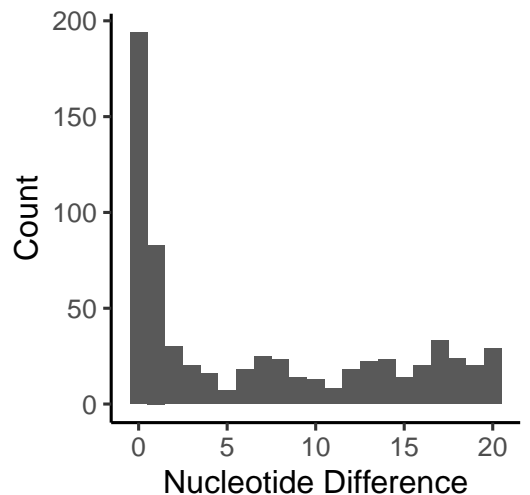
IGHV1-24*01

306 sequences assigned
97 (31.7%) exact matches, in which:
92 unique CDR3
6 unique J



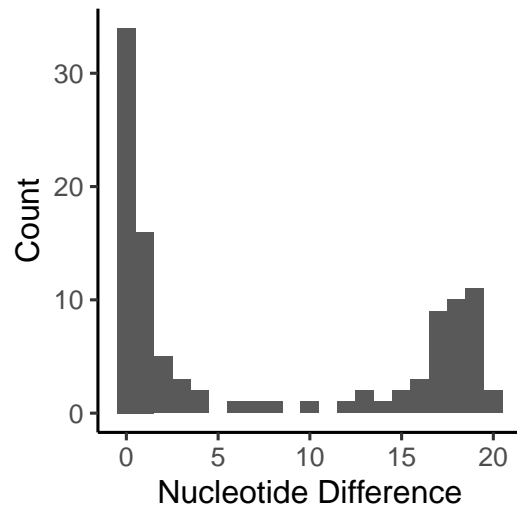
IGHV1-46*01

1123 sequences assigned
194 (17.3%) exact matches, in which:
187 unique CDR3
6 unique J



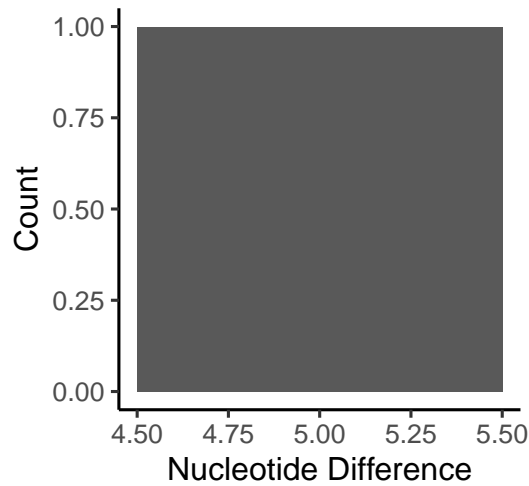
IGHV1-58*01

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



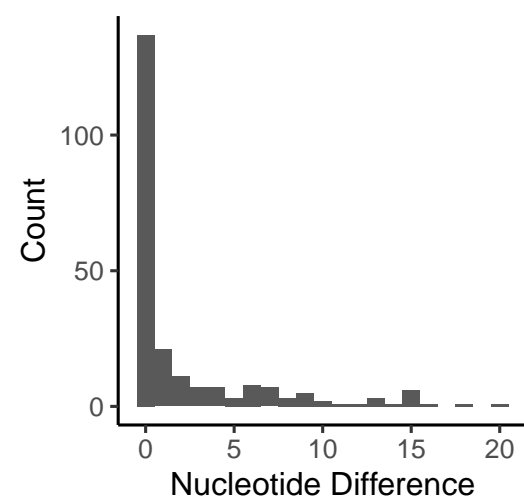
IGHV1-NL1*01

1 sequences assigned
No exact matches.



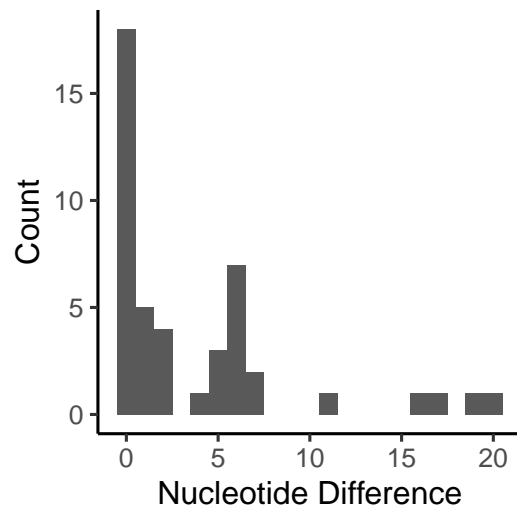
IGHV2-26*01

239 sequences assigned
137 (57.3%) exact matches, in which:
135 unique CDR3
5 unique J



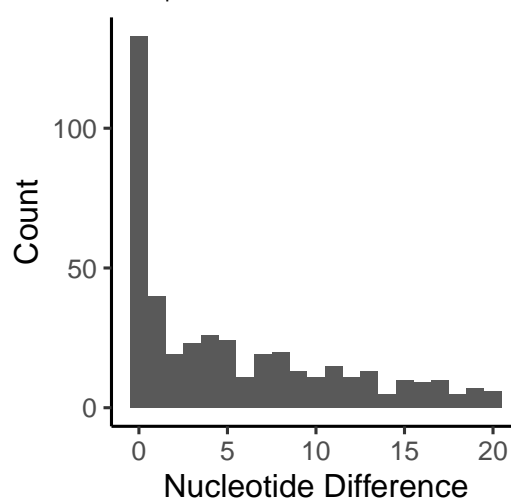
IGHV1-69-2*01

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



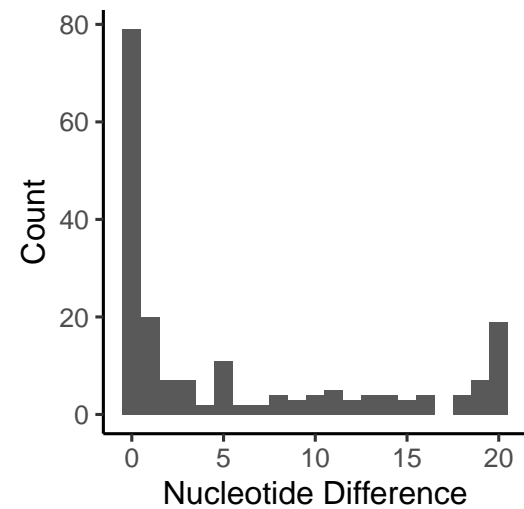
IGHV2-5*01

494 sequences assigned
133 (26.9%) exact matches, in which:
127 unique CDR3
6 unique J



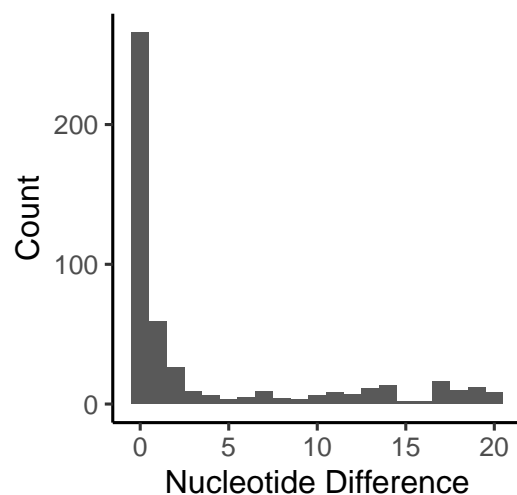
IGHV2-70*01

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



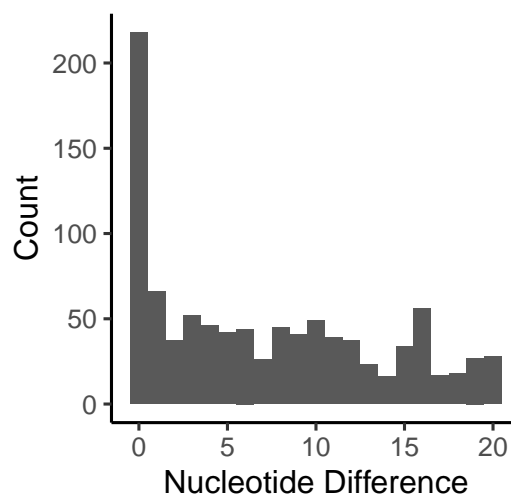
IGHV1-69*06

828 sequences assigned
266 (32.1%) exact matches, in which:
255 unique CDR3
6 unique J



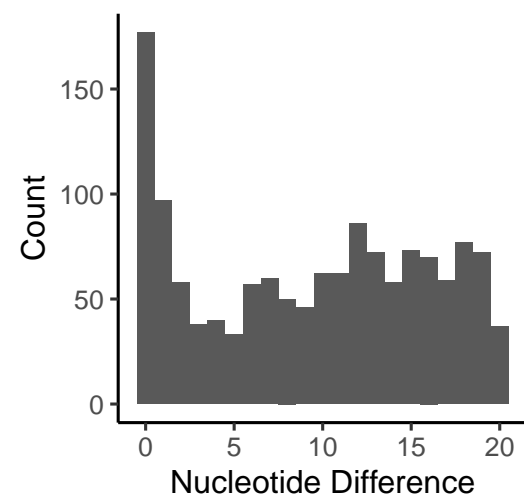
IGHV2-5*02

1235 sequences assigned
218 (17.7%) exact matches, in which:
208 unique CDR3
6 unique J



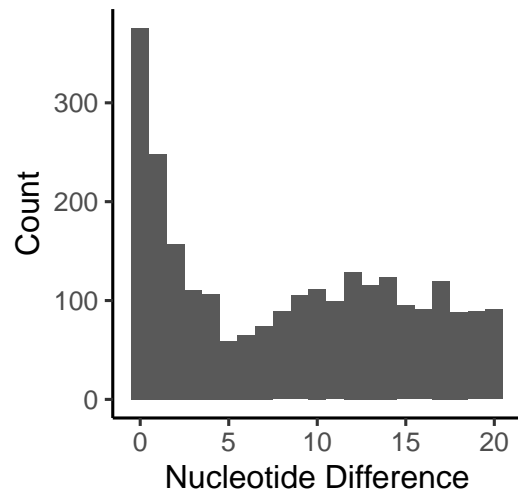
IGHV3-7*01

1944 sequences assigned
177 (9.1%) exact matches, in which:
173 unique CDR3
6 unique J



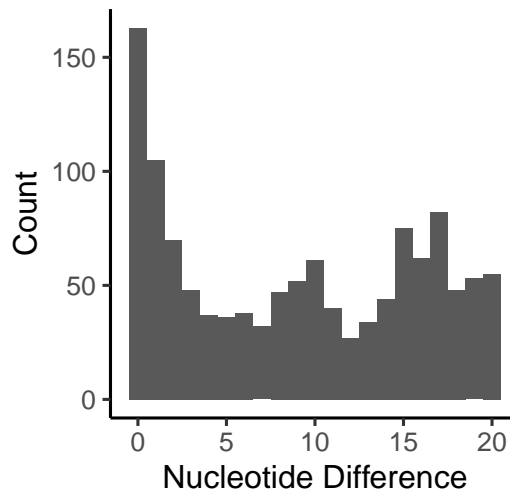
IGHV3-9*01

3423 sequences assigned
376 (11%) exact matches, in which:
365 unique CDR3
6 unique J



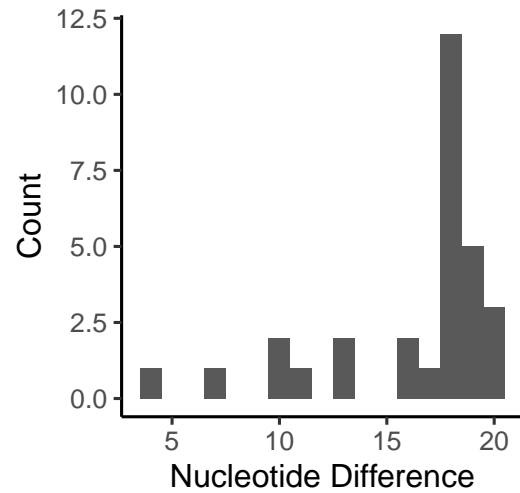
IGHV3-15*01

1792 sequences assigned
163 (9.1%) exact matches, in which:
146 unique CDR3
5 unique J



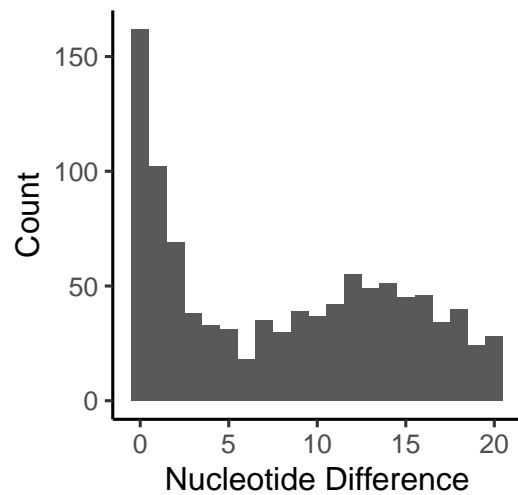
IGHV3-20*04

84 sequences assigned
No exact matches.



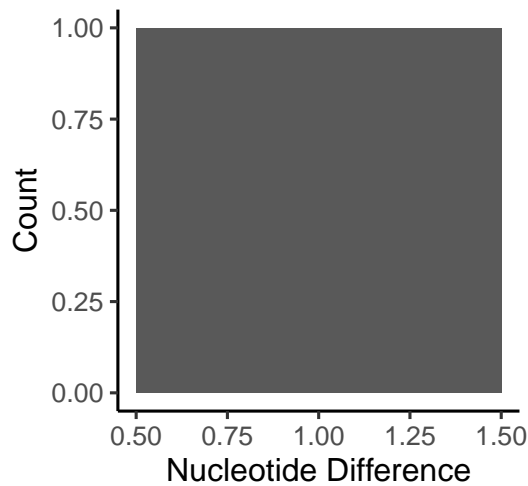
IGHV3-11*01

1551 sequences assigned
162 (10.4%) exact matches, in which:
158 unique CDR3
6 unique J



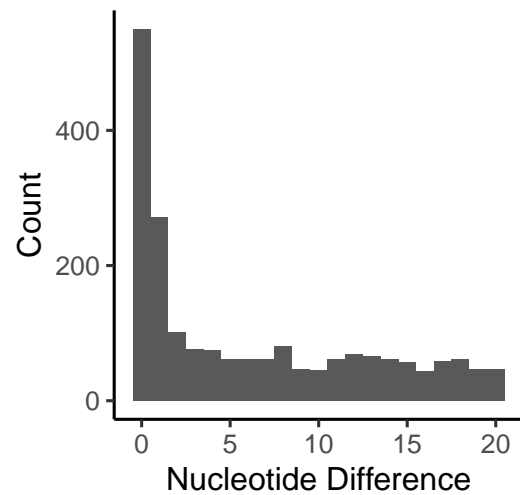
IGHV3-19*01

1 sequences assigned
No exact matches.



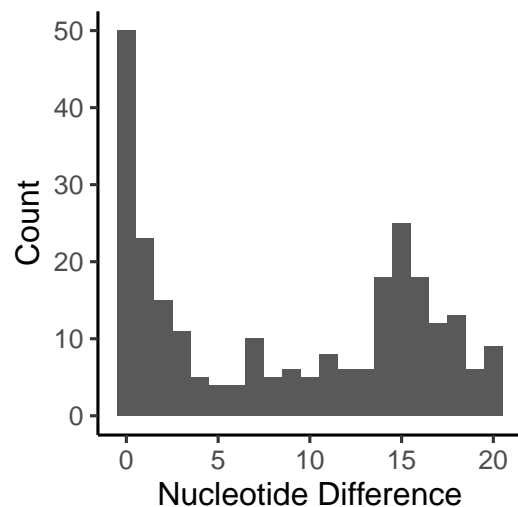
IGHV3-21*01

2804 sequences assigned
550 (19.6%) exact matches, in which:
521 unique CDR3
6 unique J



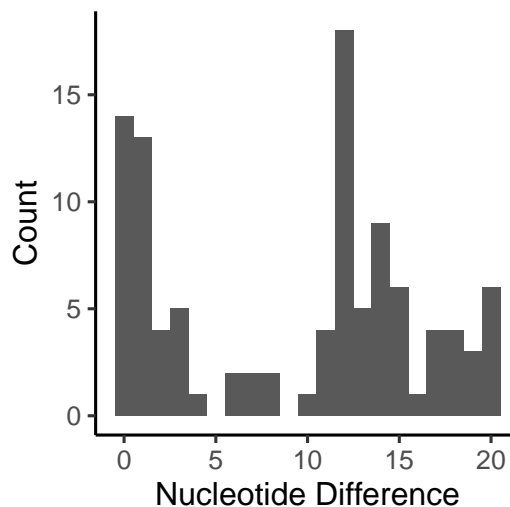
IGHV3-13*01

342 sequences assigned
50 (14.6%) exact matches, in which:
49 unique CDR3
5 unique J



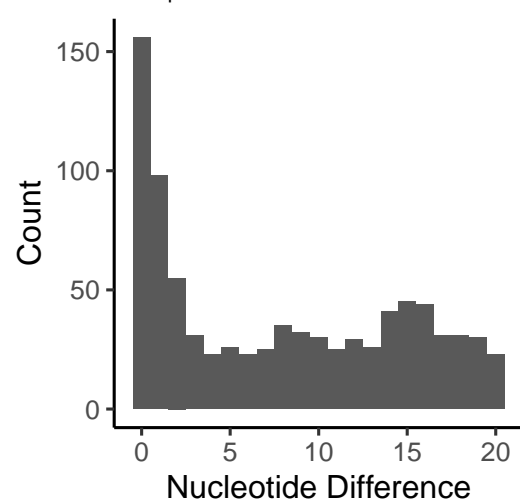
IGHV3-20*01

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



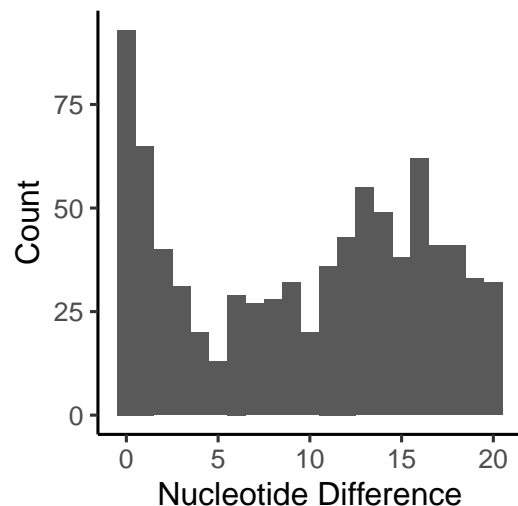
IGHV3-30-3*01

1268 sequences assigned
156 (12.3%) exact matches, in which:
150 unique CDR3
6 unique J



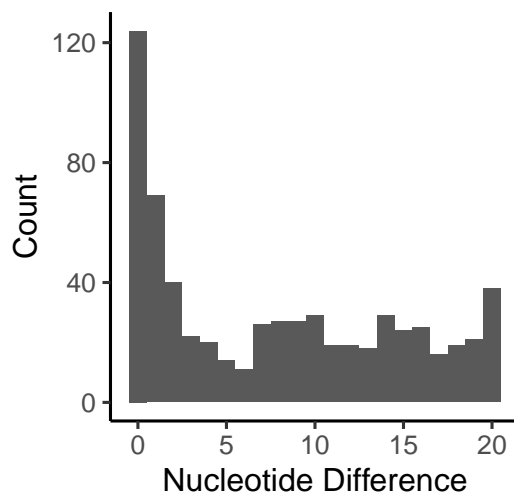
IGHV3-33*01

1235 sequences assigned
93 (7.5%) exact matches, in which:
89 unique CDR3
6 unique J



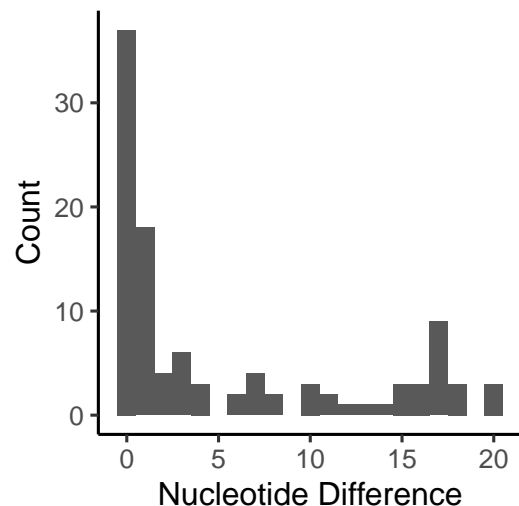
IGHV3-48*02

1111 sequences assigned
124 (11.2%) exact matches, in which:
122 unique CDR3
5 unique J



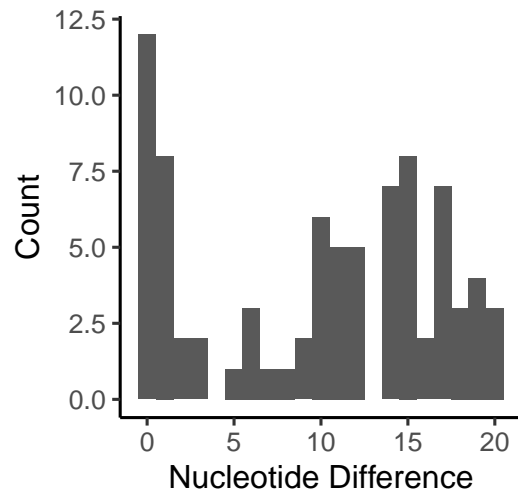
IGHV3-49*05

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



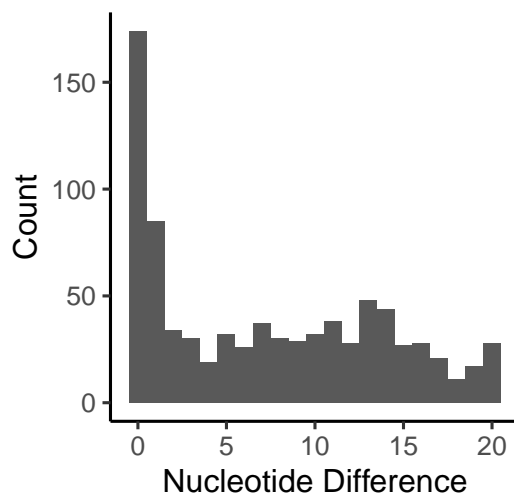
IGHV3-43*01

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



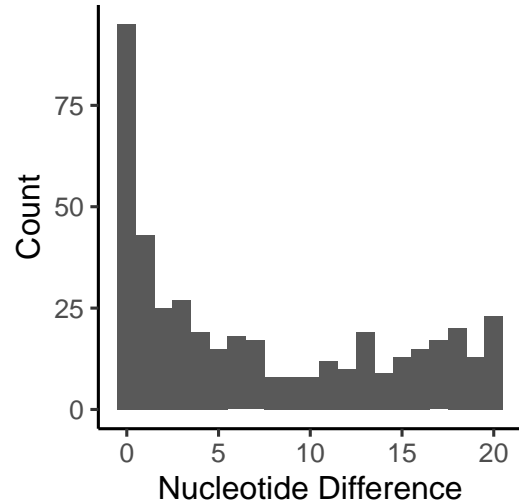
IGHV3-48*03

1163 sequences assigned
174 (15%) exact matches, in which:
166 unique CDR3
5 unique J



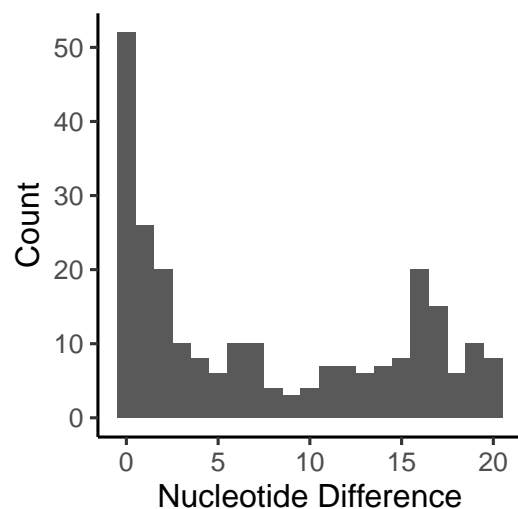
IGHV3-53*01

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



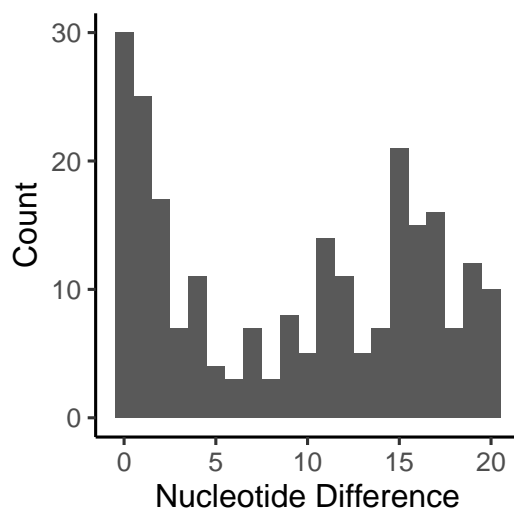
IGHV3-43*02

471 sequences assigned
52 (11%) exact matches, in which:
51 unique CDR3
5 unique J



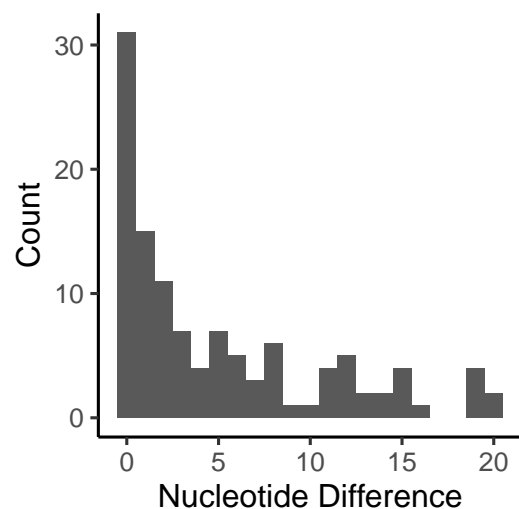
IGHV3-49*04

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



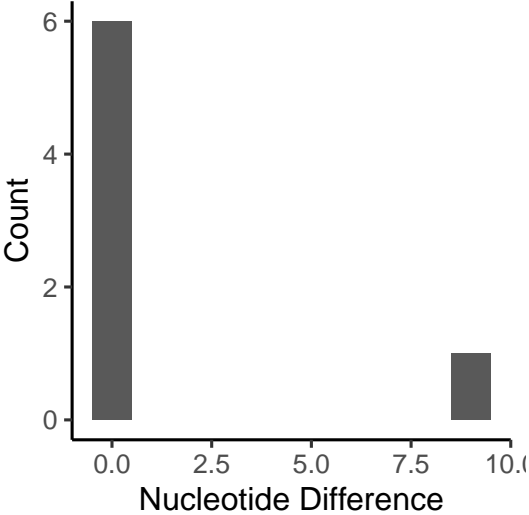
IGHV3-53*04

143 sequences assigned
31 (21.7%) exact matches, in which:
30 unique CDR3
5 unique J



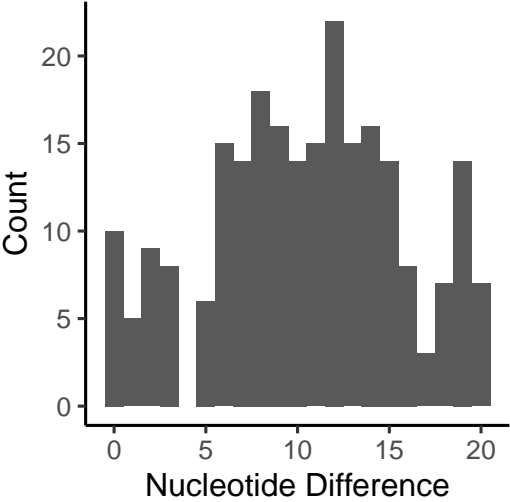
IGHV3-64*02

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



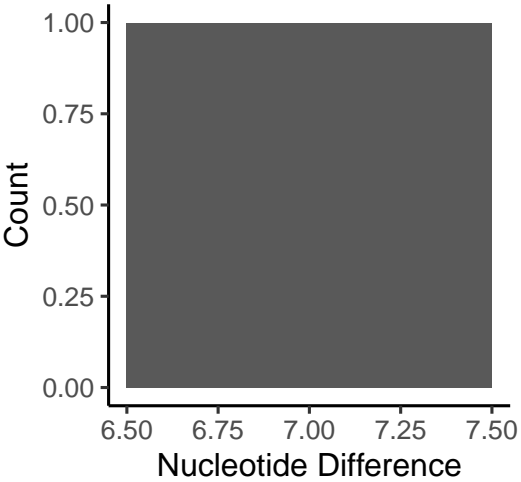
IGHV3-72*01

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



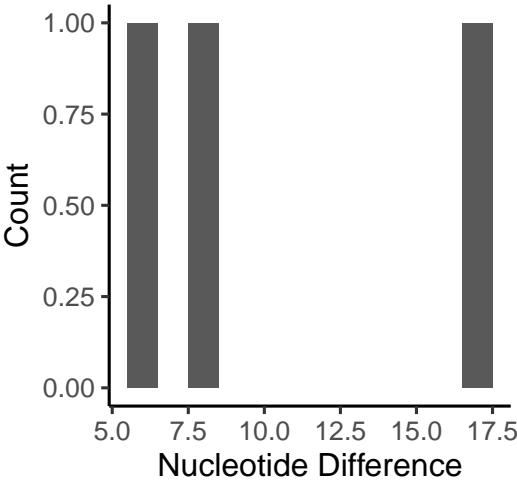
IGHV3-43D*04

1 sequences assigned
No exact matches.



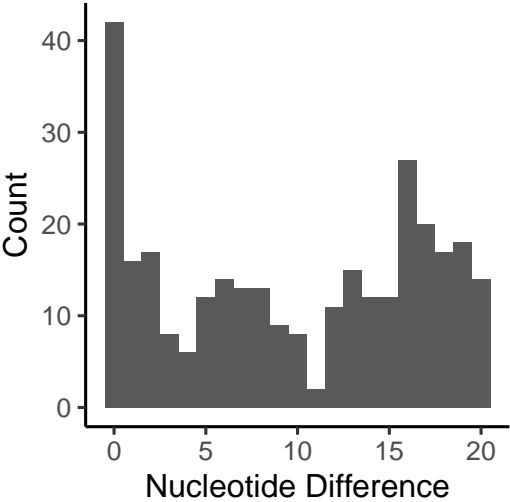
IGHV3-66*03

3 sequences assigned
No exact matches.



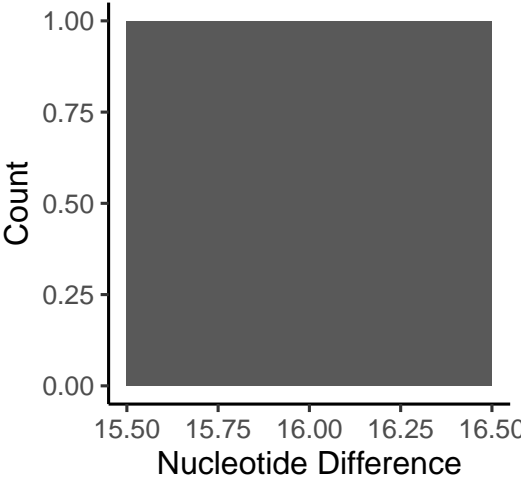
IGHV3-73*02

427 sequences assigned
42 (9.8%) exact matches, in which:
39 unique CDR3
4 unique J



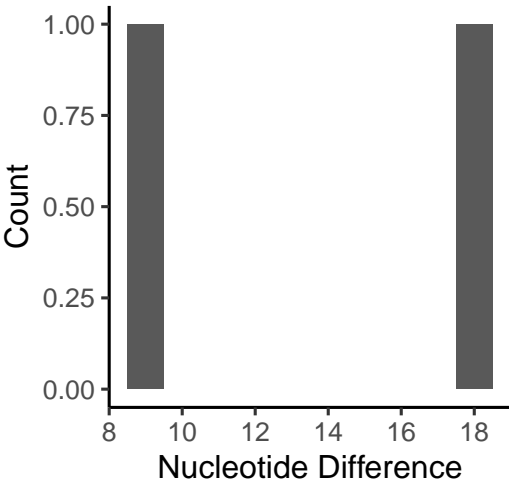
IGHV3-64D*09

1 sequences assigned
No exact matches.



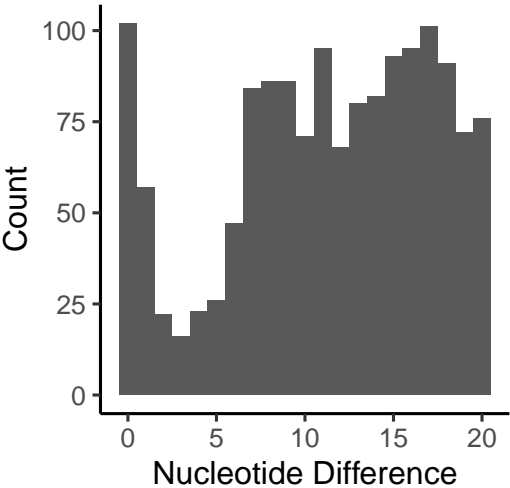
IGHV3-69-1*02

15 sequences assigned
No exact matches.



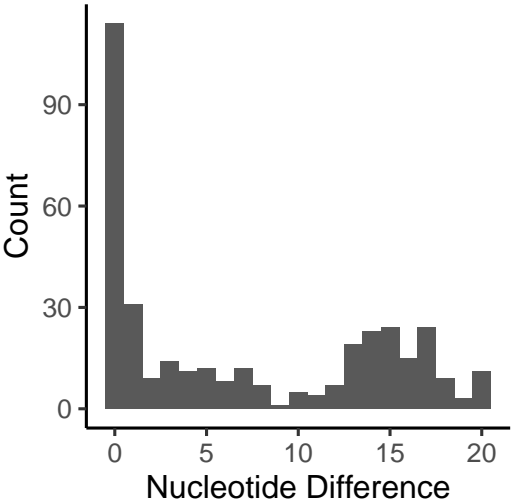
IGHV3-74*01

2150 sequences assigned
102 (4.7%) exact matches, in which:
101 unique CDR3
6 unique J



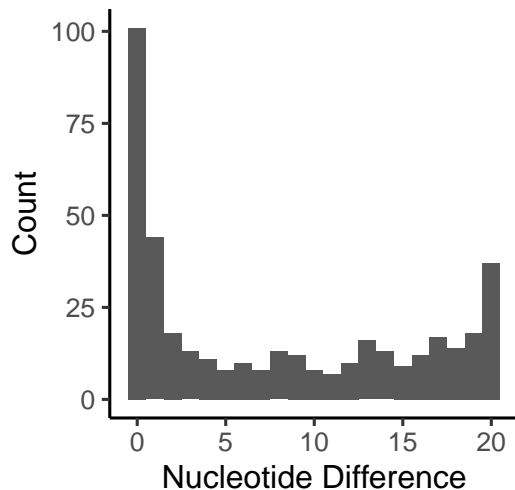
IGHV4-4*02

596 sequences assigned
114 (19.1%) exact matches, in which:
107 unique CDR3
5 unique J



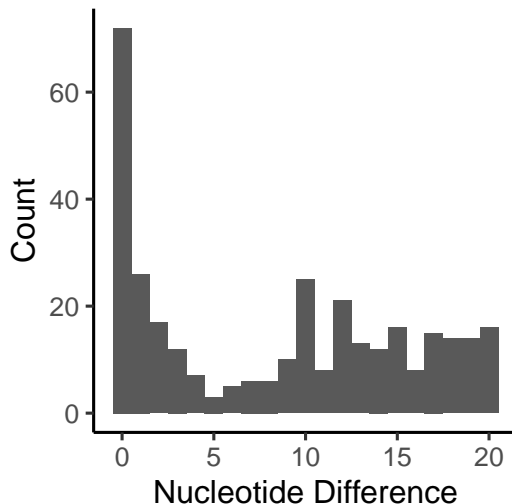
IGHV4-4*07

655 sequences assigned
101 (15.4%) exact matches, in which:
101 unique CDR3
5 unique J



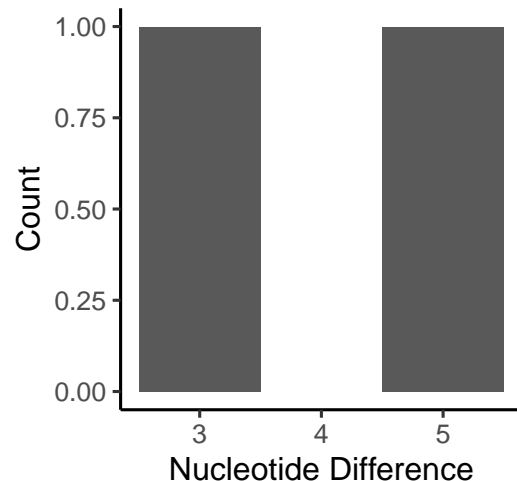
IGHV4-30-4*01

517 sequences assigned
72 (13.9%) exact matches, in which:
71 unique CDR3
5 unique J



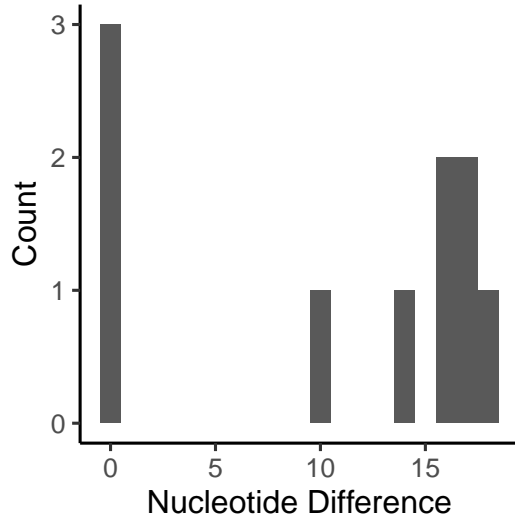
IGHV4-38-2*02

3 sequences assigned
No exact matches.



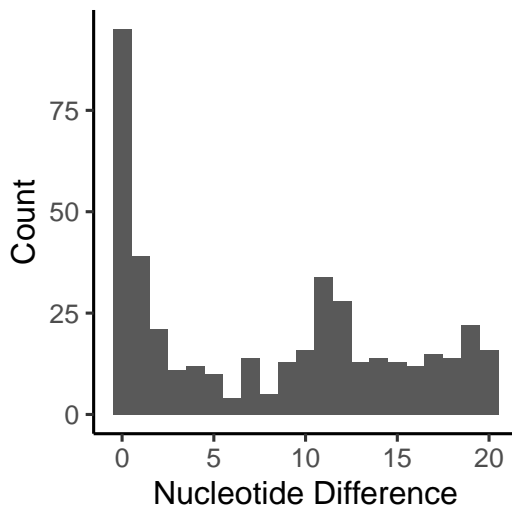
IGHV4-28*01

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



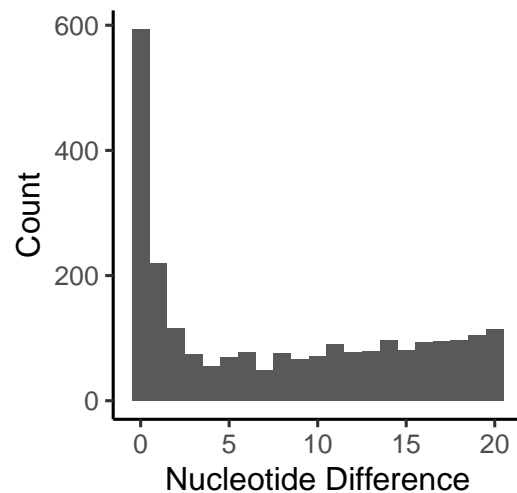
IGHV4-31*03

606 sequences assigned
95 (15.7%) exact matches, in which:
91 unique CDR3
6 unique J



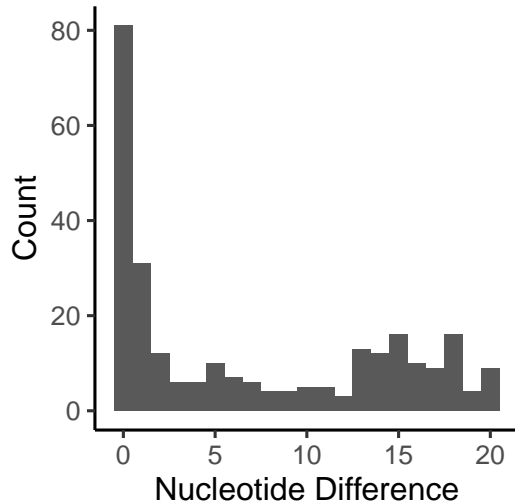
IGHV4-39*01

4134 sequences assigned
594 (14.4%) exact matches, in which:
566 unique CDR3
6 unique J



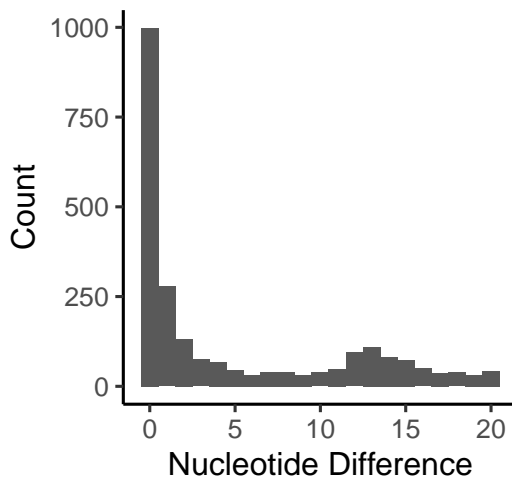
IGHV4-30-2*01

403 sequences assigned
81 (20.1%) exact matches, in which:
79 unique CDR3
6 unique J



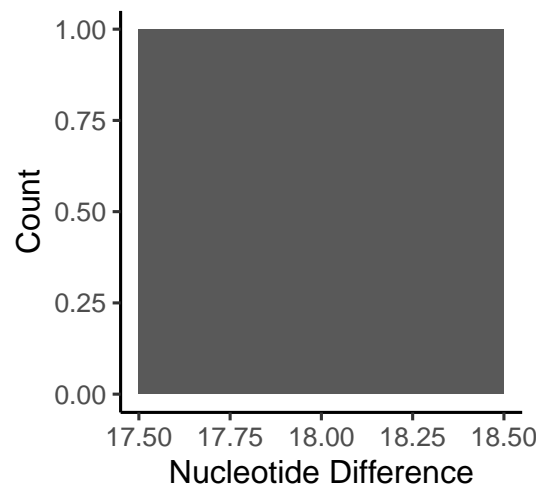
IGHV4-34*01

3109 sequences assigned
998 (32.1%) exact matches, in which:
944 unique CDR3
6 unique J



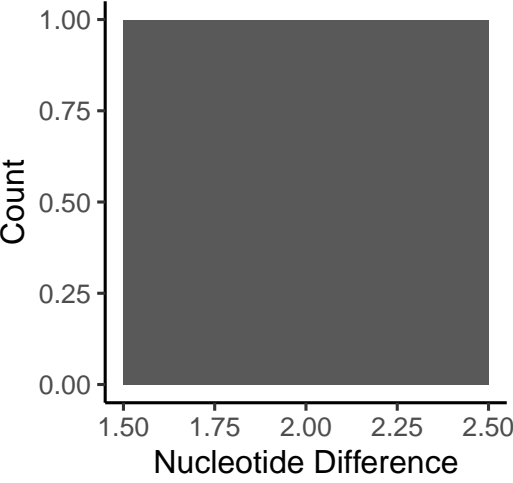
IGHV4-55*01

1 sequences assigned
No exact matches.



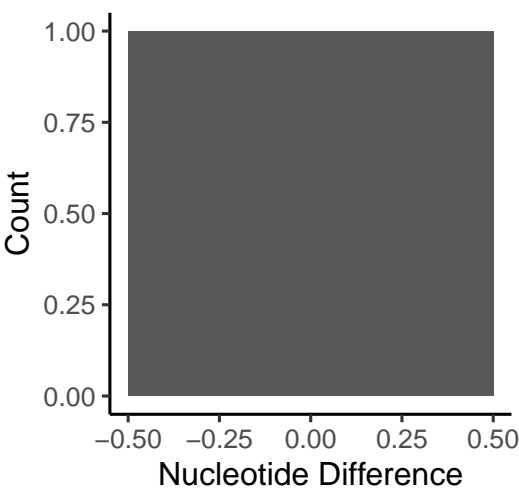
IGHV4-55*08

1 sequences assigned
No exact matches.



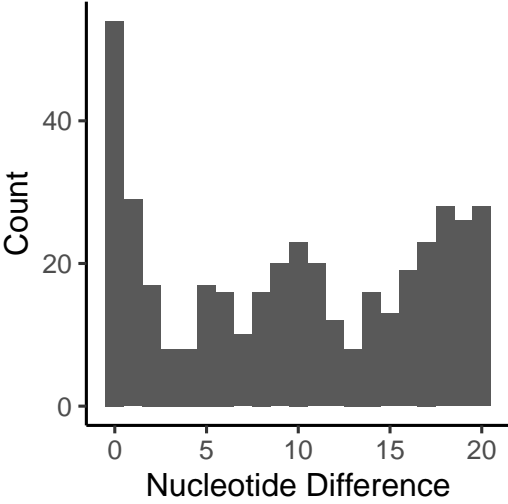
IGHV4/OR15-8*01

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



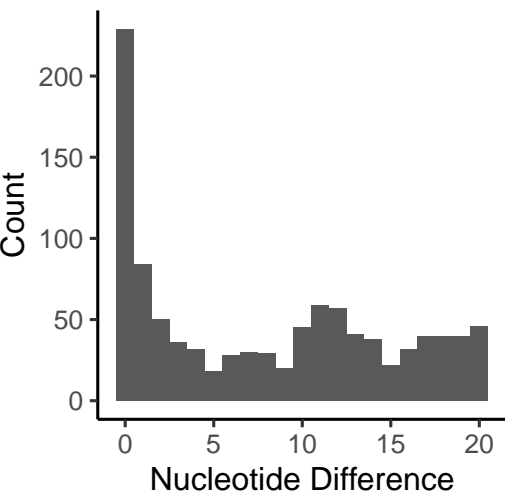
IGHV6-1*01

520 sequences assigned
54 (10.4%) exact matches, in which:
51 unique CDR3
5 unique J



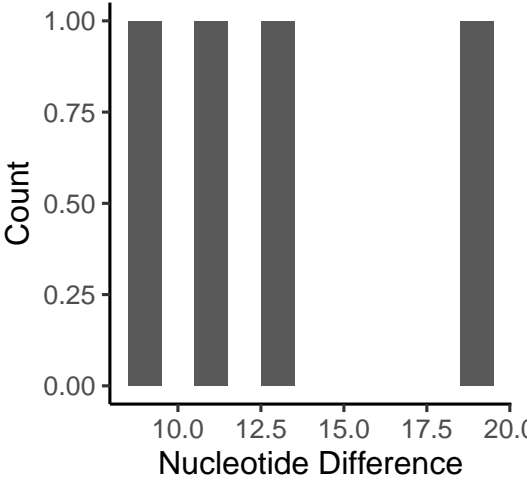
IGHV4-59*01

1476 sequences assigned
229 (15.5%) exact matches, in which:
221 unique CDR3
6 unique J



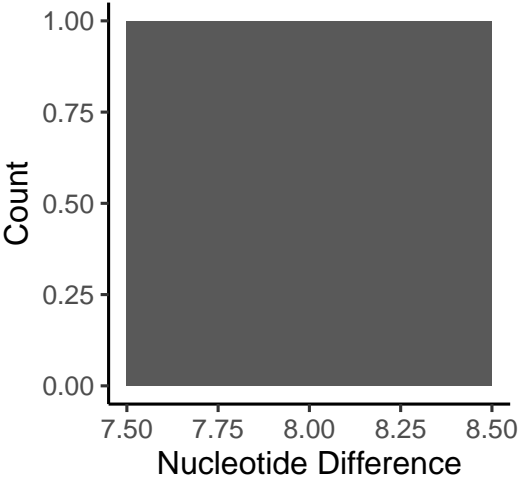
IGHV4/OR15-8*02

12 sequences assigned
No exact matches.



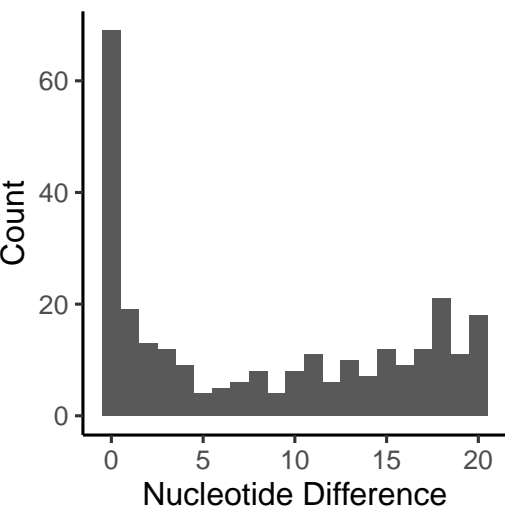
IGHV3/OR16-6*02

1 sequences assigned
No exact matches.



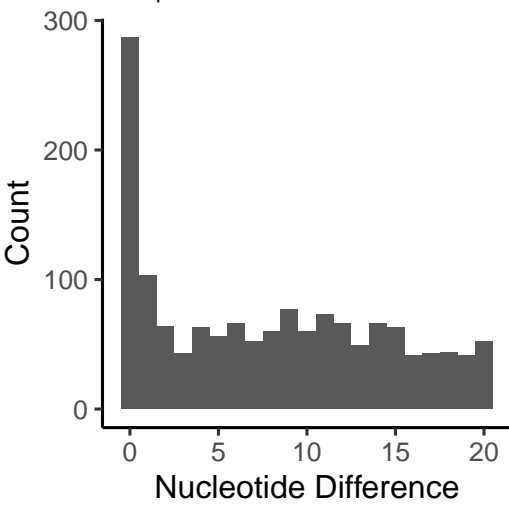
IGHV4-61*01

539 sequences assigned
69 (12.8%) exact matches, in which:
69 unique CDR3
6 unique J



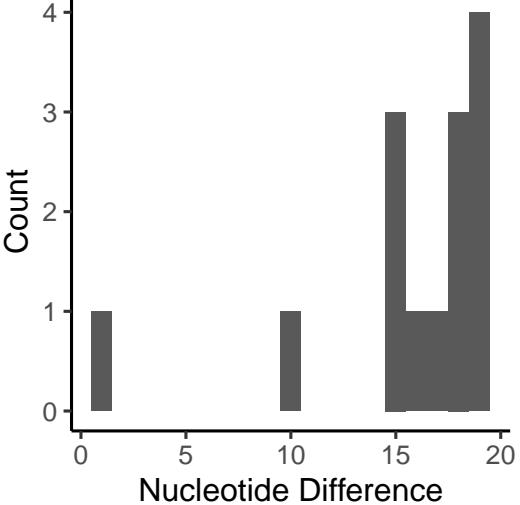
IGHV5-51*01

1906 sequences assigned
287 (15.1%) exact matches, in which:
279 unique CDR3
6 unique J



IGHV7-4-1*01

15 sequences assigned
No exact matches.





Novel sequence(s)IGHV3-30-5*01_T167C are not listed in the genotype and will be ignored.