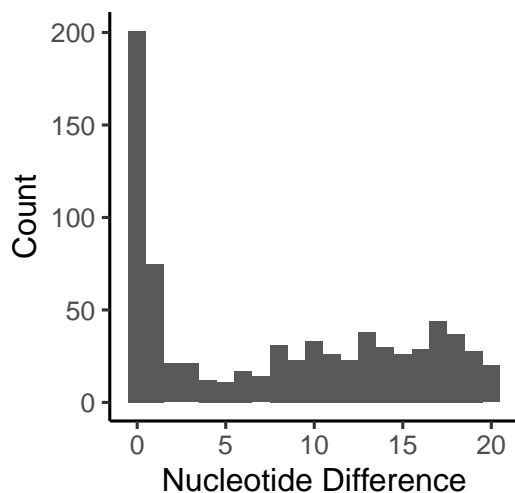


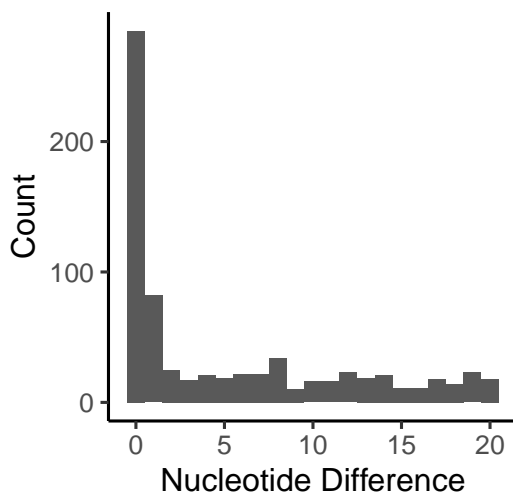
IGHV1-2*02

1283 sequences assigned
201 (15.7%) exact matches, in which:
201 unique CDR3
6 unique J



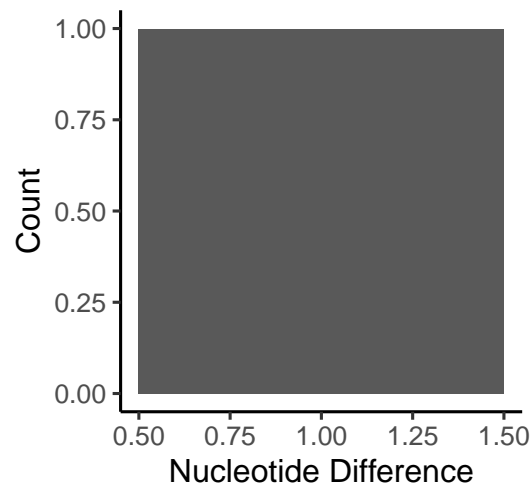
IGHV1-8*01

903 sequences assigned
285 (31.6%) exact matches, in which:
284 unique CDR3
5 unique J



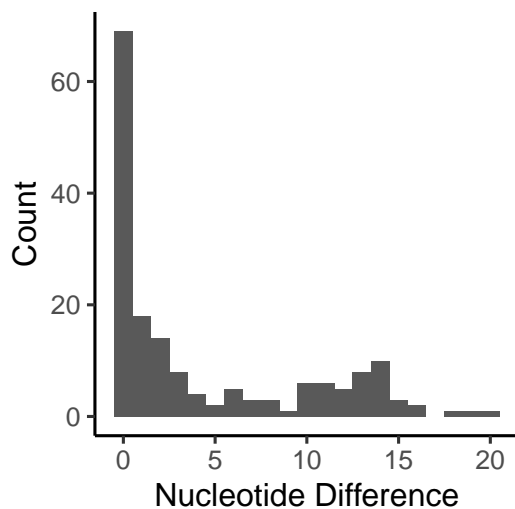
IGHV1-45*01

7 sequences assigned
No exact matches.



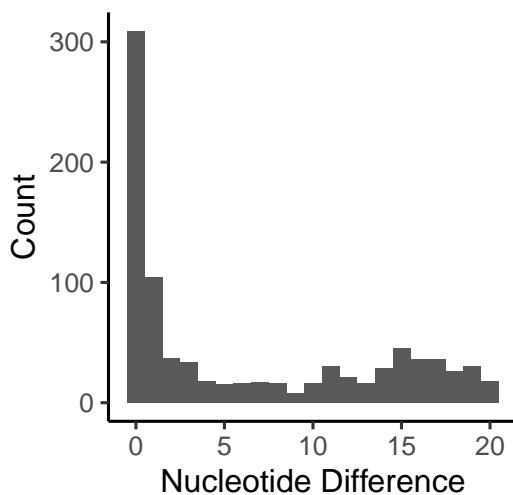
IGHV1-2*04

240 sequences assigned
69 (28.8%) exact matches, in which:
69 unique CDR3
5 unique J



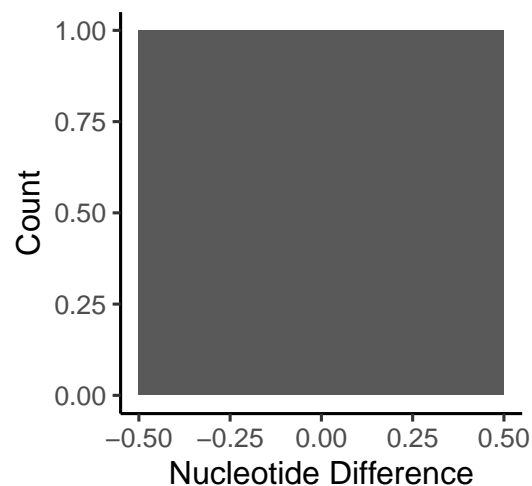
IGHV1-18*01

1392 sequences assigned
309 (22.2%) exact matches, in which:
306 unique CDR3
6 unique J



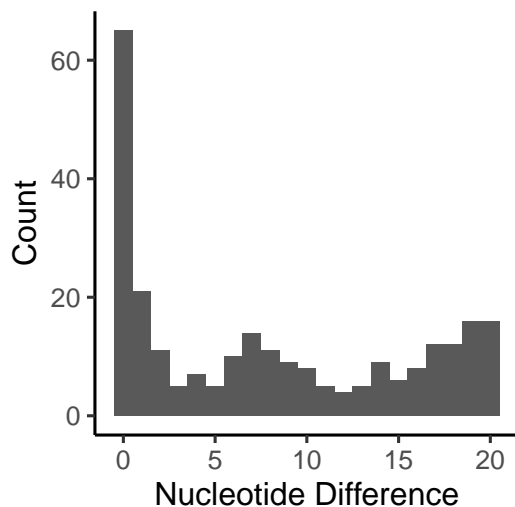
IGHV1-45*02

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



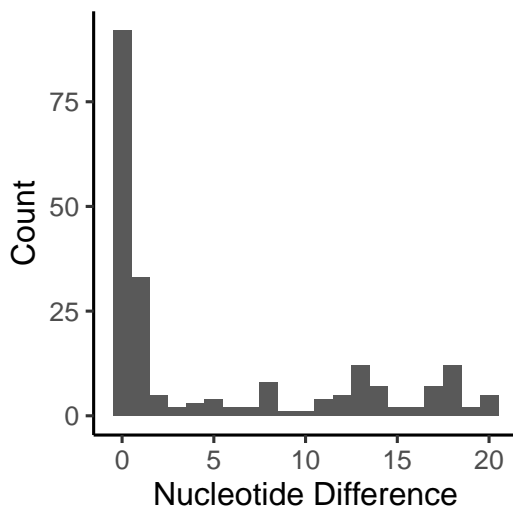
IGHV1-3*01

404 sequences assigned
65 (16.1%) exact matches, in which:
64 unique CDR3
5 unique J



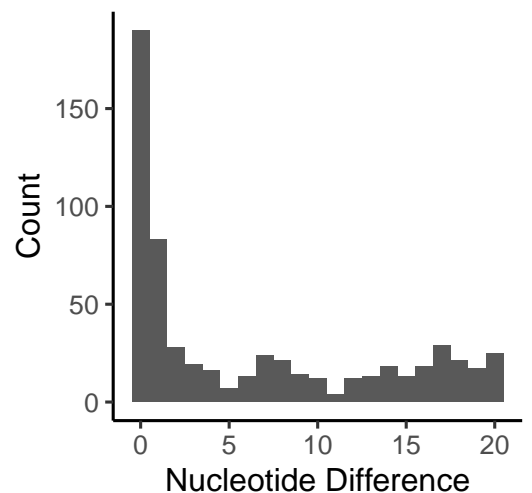
IGHV1-24*01

283 sequences assigned
92 (32.5%) exact matches, in which:
91 unique CDR3
6 unique J



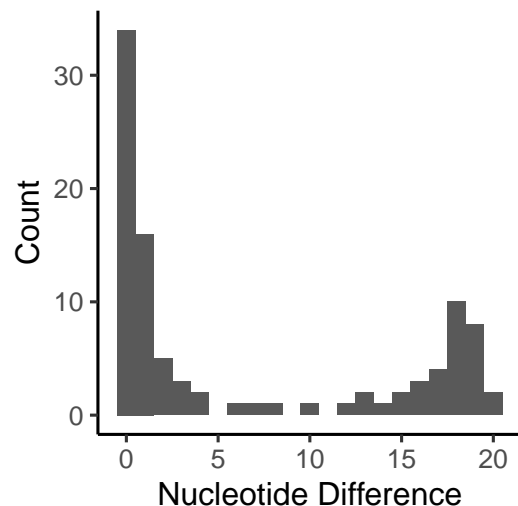
IGHV1-46*01

980 sequences assigned
190 (19.4%) exact matches, in which:
187 unique CDR3
6 unique J



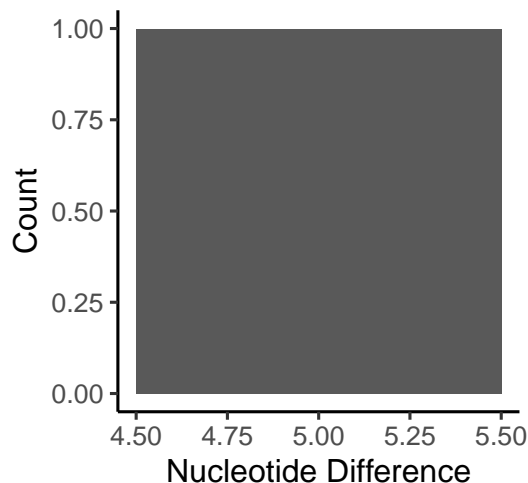
IGHV1-58*01

138 sequences assigned
34 (24.6%) exact matches, in which:
34 unique CDR3
6 unique J



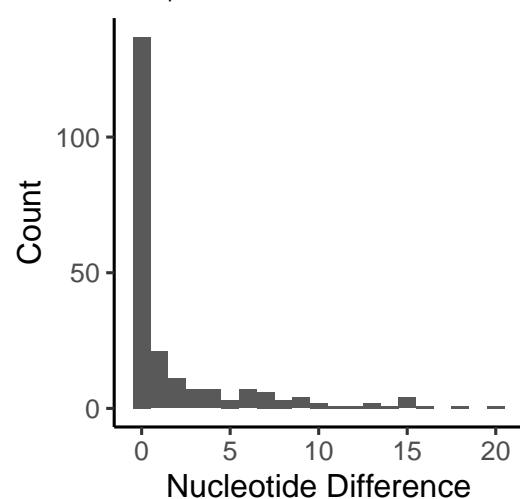
IGHV1-NL1*01

1 sequences assigned
No exact matches.



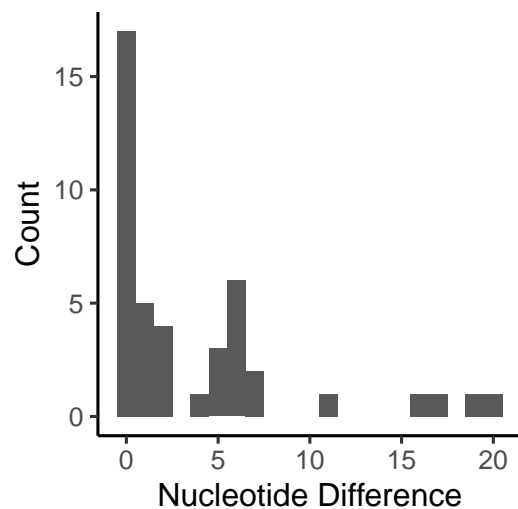
IGHV2-26*01

232 sequences assigned
137 (59.1%) exact matches, in which:
137 unique CDR3
5 unique J



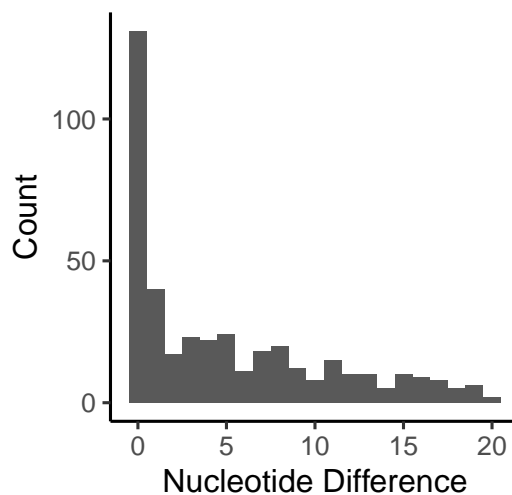
IGHV1-69-2*01

90 sequences assigned
17 (18.9%) exact matches, in which:
17 unique CDR3
4 unique J



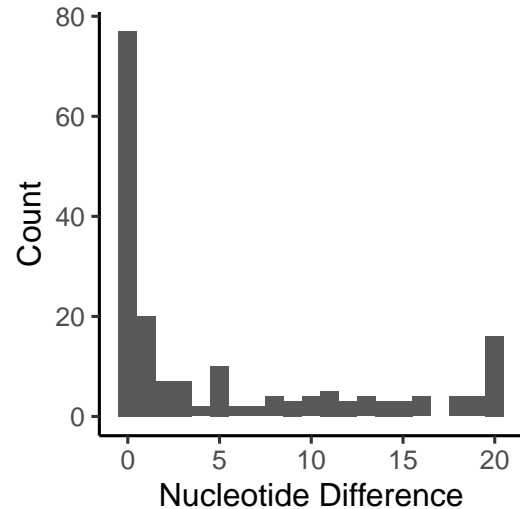
IGHV2-5*01

467 sequences assigned
131 (28.1%) exact matches, in which:
127 unique CDR3
6 unique J



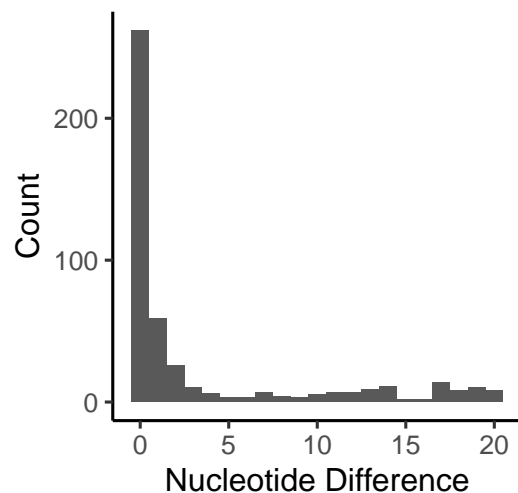
IGHV2-70*01

237 sequences assigned
77 (32.5%) exact matches, in which:
77 unique CDR3
4 unique J



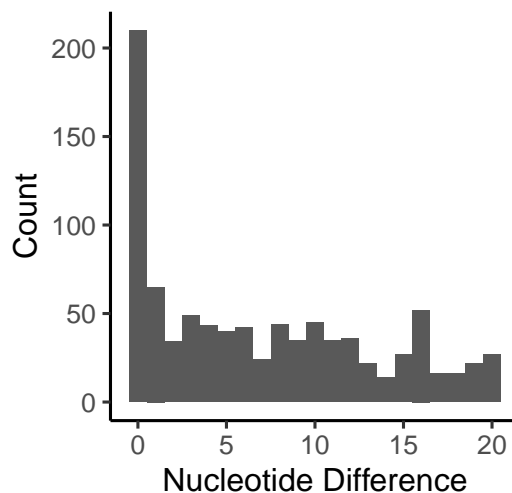
IGHV1-69*06

766 sequences assigned
262 (34.2%) exact matches, in which:
254 unique CDR3
6 unique J



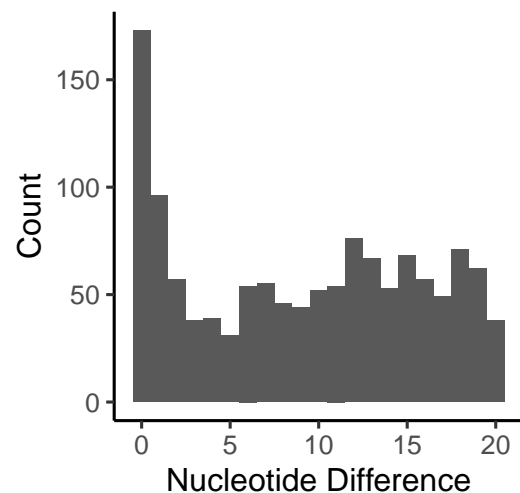
IGHV2-5*02

1151 sequences assigned
210 (18.2%) exact matches, in which:
207 unique CDR3
6 unique J



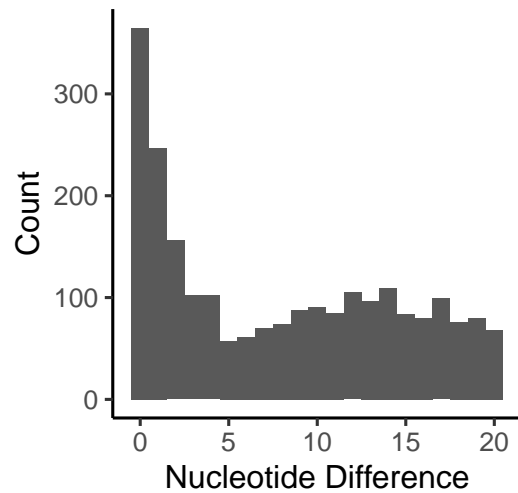
IGHV3-7*01

1790 sequences assigned
173 (9.7%) exact matches, in which:
170 unique CDR3
6 unique J



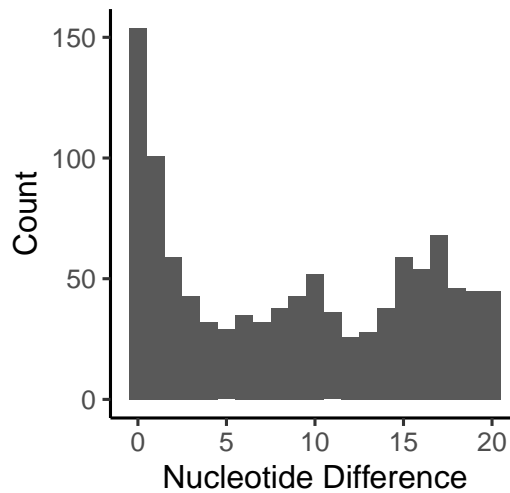
IGHV3-9*01

3036 sequences assigned
365 (12%) exact matches, in which:
363 unique CDR3
6 unique J



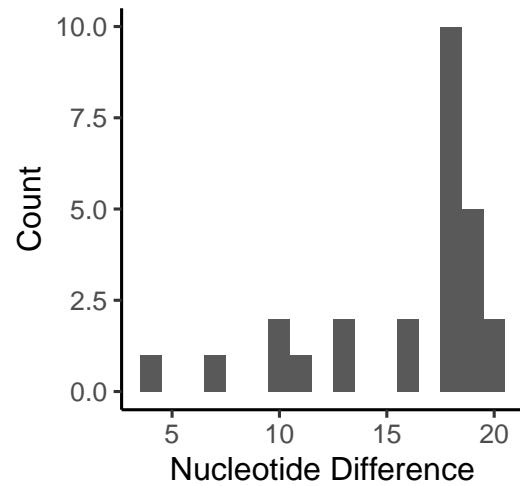
IGHV3-15*01

1554 sequences assigned
154 (9.9%) exact matches, in which:
145 unique CDR3
5 unique J



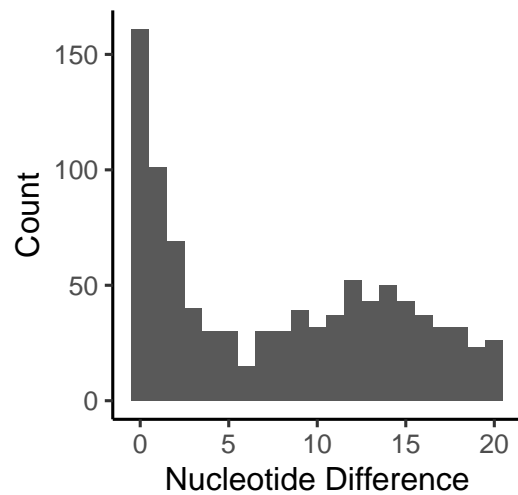
IGHV3-20*04

74 sequences assigned
No exact matches.



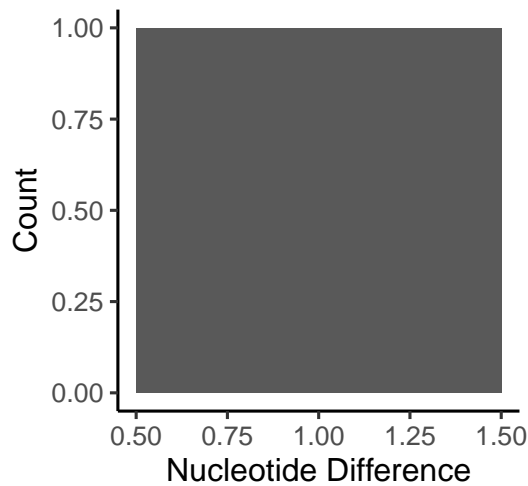
IGHV3-11*01

1415 sequences assigned
161 (11.4%) exact matches, in which:
158 unique CDR3
6 unique J



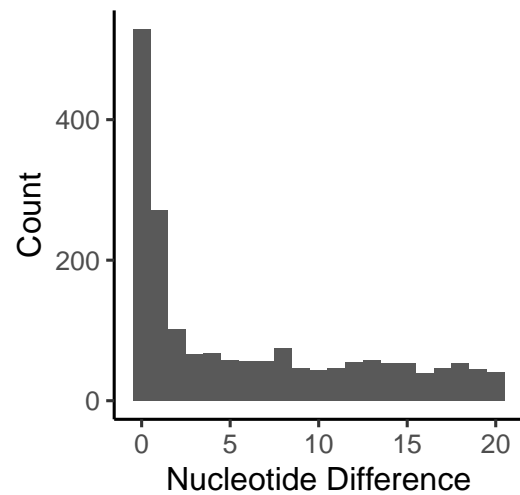
IGHV3-19*01

1 sequences assigned
No exact matches.



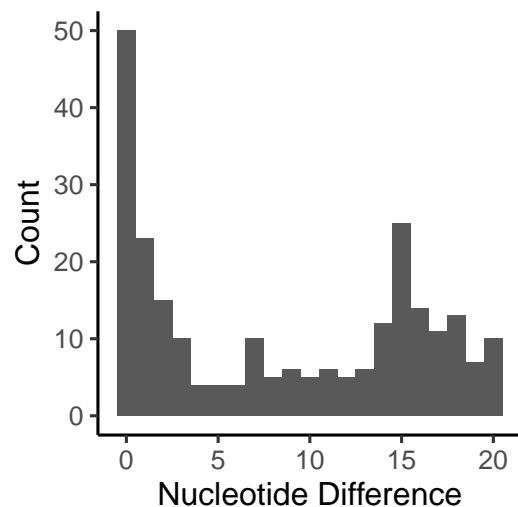
IGHV3-21*01

2551 sequences assigned
529 (20.7%) exact matches, in which:
524 unique CDR3
6 unique J



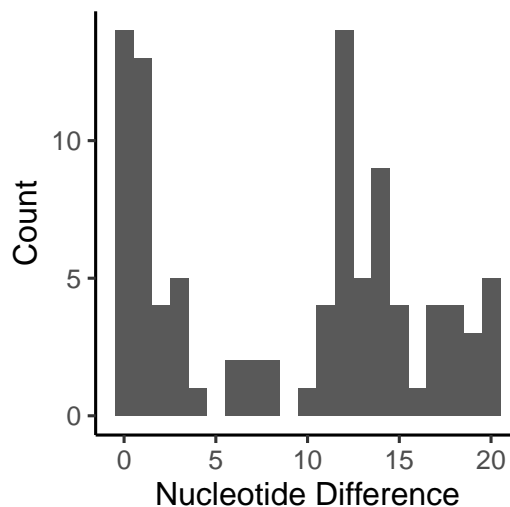
IGHV3-13*01

321 sequences assigned
50 (15.6%) exact matches, in which:
49 unique CDR3
5 unique J



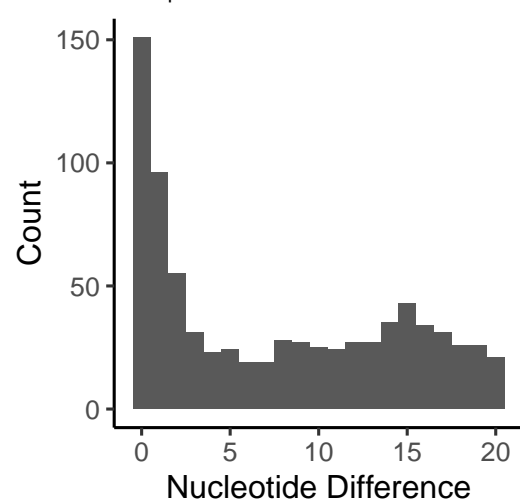
IGHV3-20*01

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



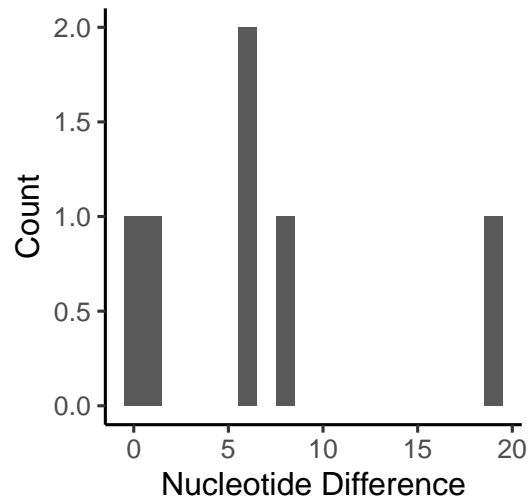
IGHV3-30-3*01

1151 sequences assigned
151 (13.1%) exact matches, in which:
148 unique CDR3
6 unique J



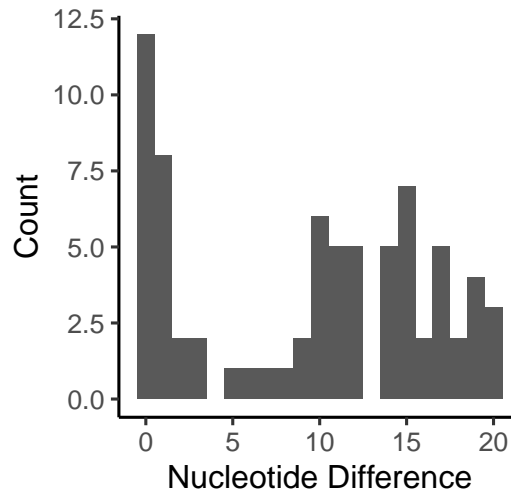
IGHV3-30-3*02

10 sequences assigned
1 (10%) exact matches, in which:
1 unique CDR3
1 unique J



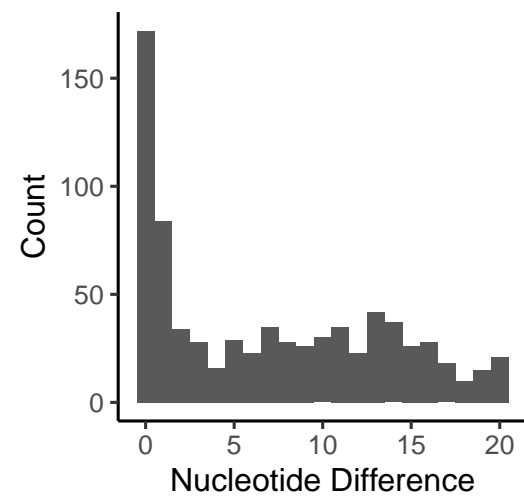
IGHV3-43*01

85 sequences assigned
12 (14.1%) exact matches, in which:
12 unique CDR3
4 unique J



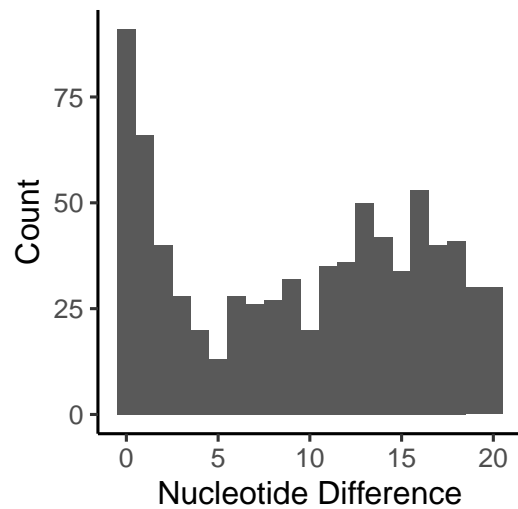
IGHV3-48*03

1037 sequences assigned
172 (16.6%) exact matches, in which:
169 unique CDR3
5 unique J



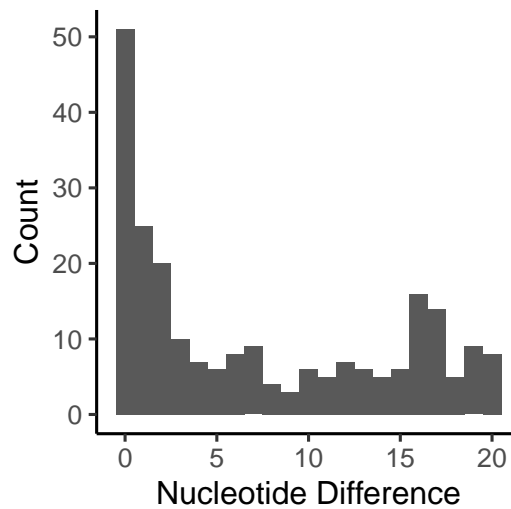
IGHV3-33*01

1153 sequences assigned
91 (7.9%) exact matches, in which:
89 unique CDR3
6 unique J



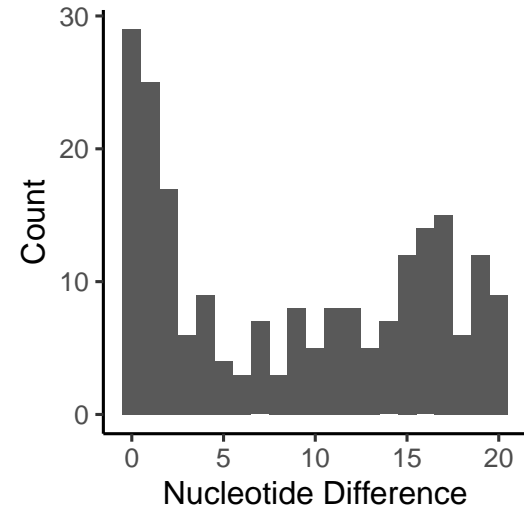
IGHV3-43*02

420 sequences assigned
51 (12.1%) exact matches, in which:
51 unique CDR3
5 unique J



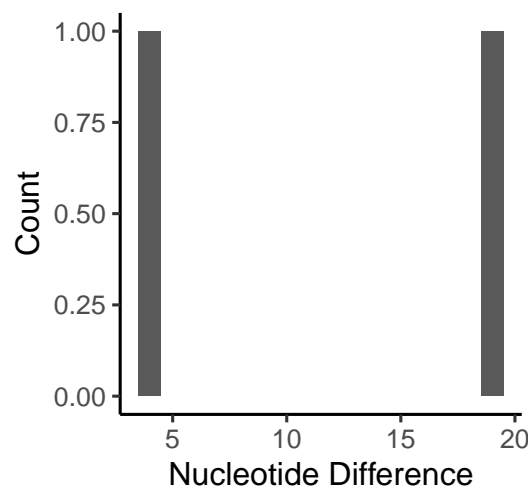
IGHV3-49*04

306 sequences assigned
29 (9.5%) exact matches, in which:
29 unique CDR3
5 unique J



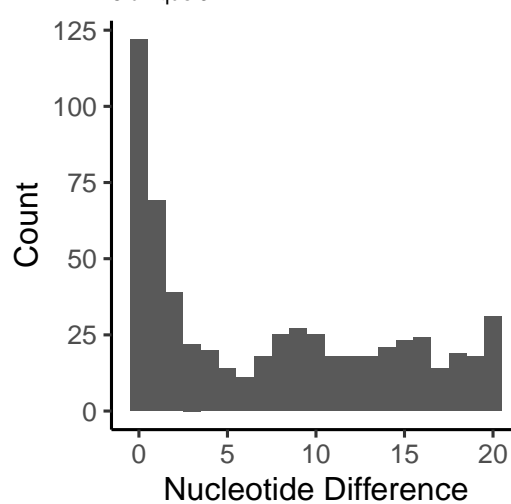
IGHV3-41*02

2 sequences assigned
No exact matches.



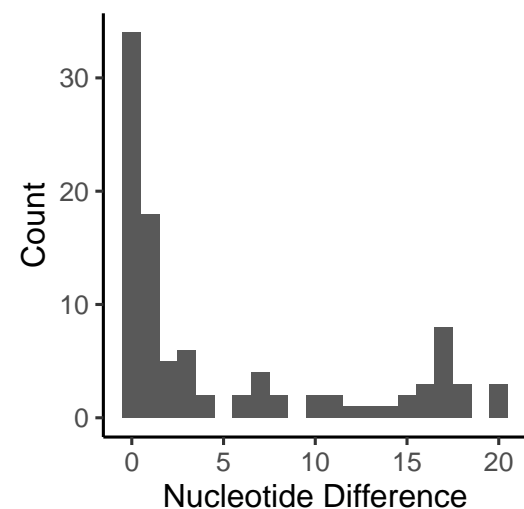
IGHV3-48*02

994 sequences assigned
122 (12.3%) exact matches, in which:
121 unique CDR3
5 unique J



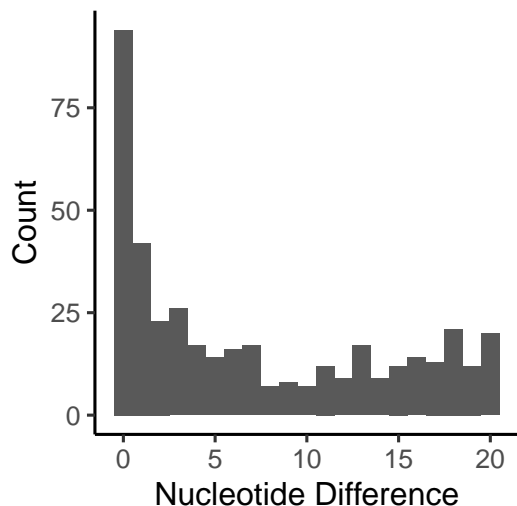
IGHV3-49*05

132 sequences assigned
34 (25.8%) exact matches, in which:
34 unique CDR3
6 unique J



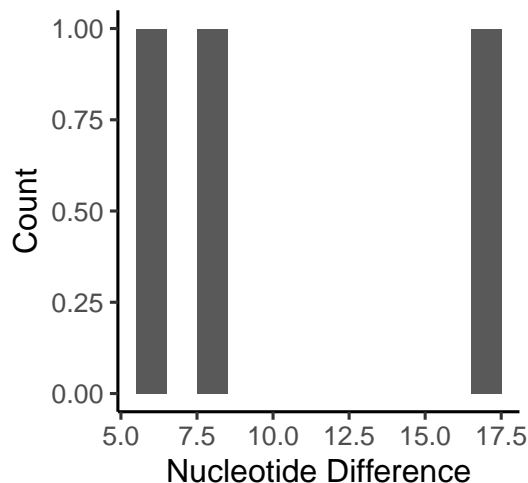
IGHV3-53*01

644 sequences assigned
94 (14.6%) exact matches, in which:
94 unique CDR3
5 unique J



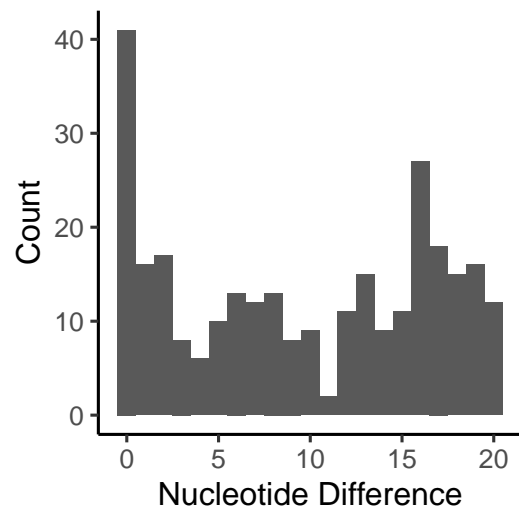
IGHV3-66*03

3 sequences assigned
No exact matches.



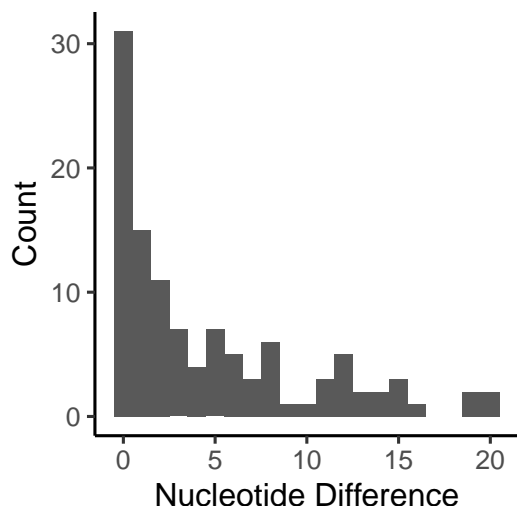
IGHV3-73*02

395 sequences assigned
41 (10.4%) exact matches, in which:
39 unique CDR3
4 unique J



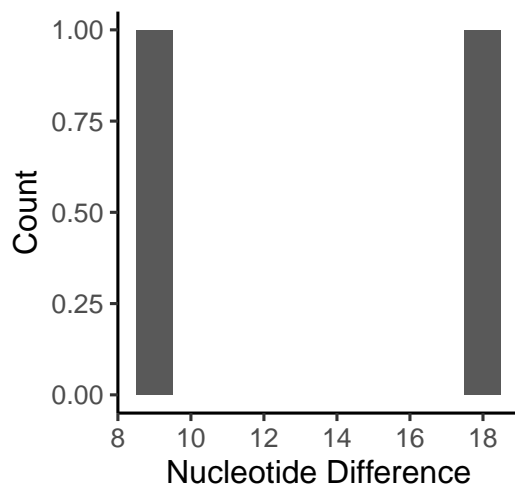
IGHV3-53*04

137 sequences assigned
31 (22.6%) exact matches, in which:
31 unique CDR3
5 unique J



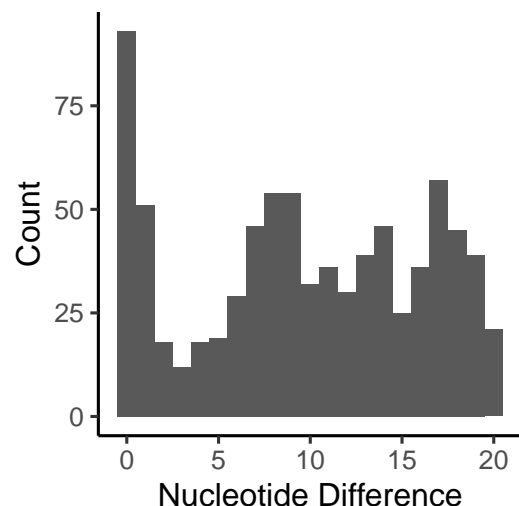
IGHV3-69-1*02

14 sequences assigned
No exact matches.



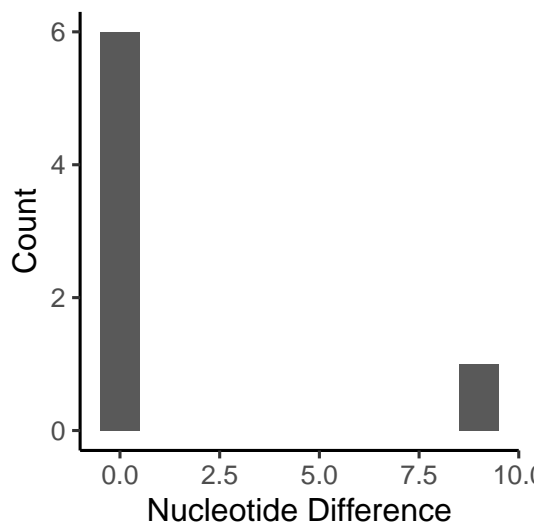
IGHV3-74*01

1028 sequences assigned
93 (9%) exact matches, in which:
93 unique CDR3
6 unique J



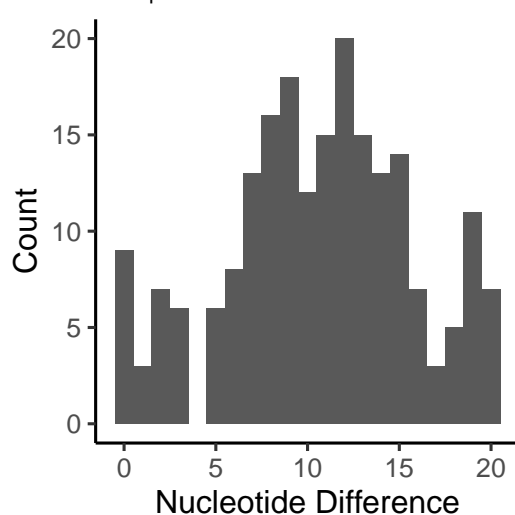
IGHV3-64*02

20 sequences assigned
6 (30%) exact matches, in which:
6 unique CDR3
3 unique J



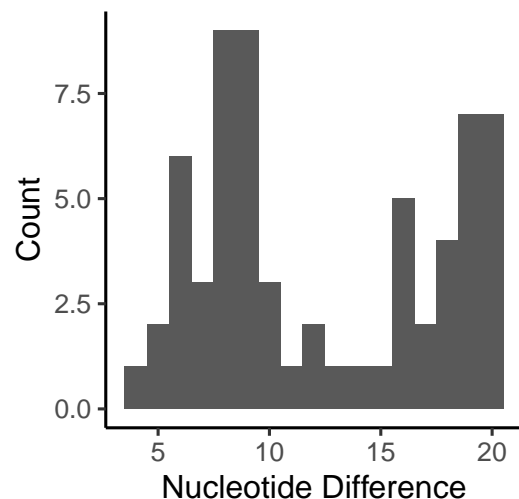
IGHV3-72*01

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



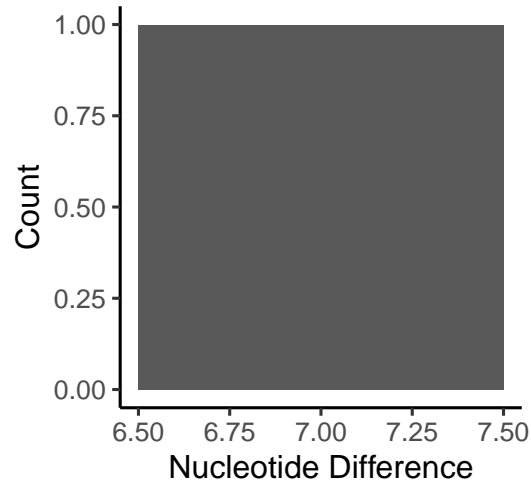
IGHV3-74*03

117 sequences assigned
No exact matches.



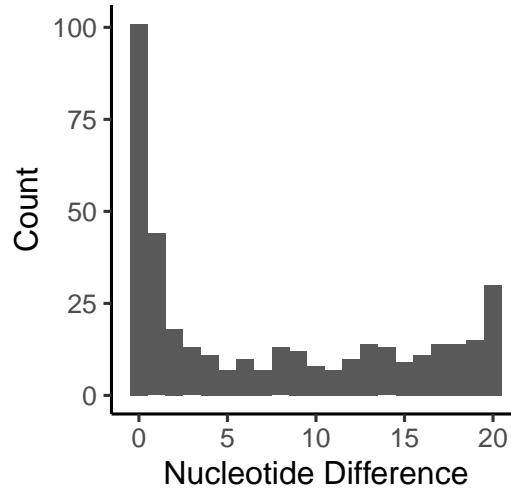
IGHV3-43D*04

1 sequences assigned
No exact matches.



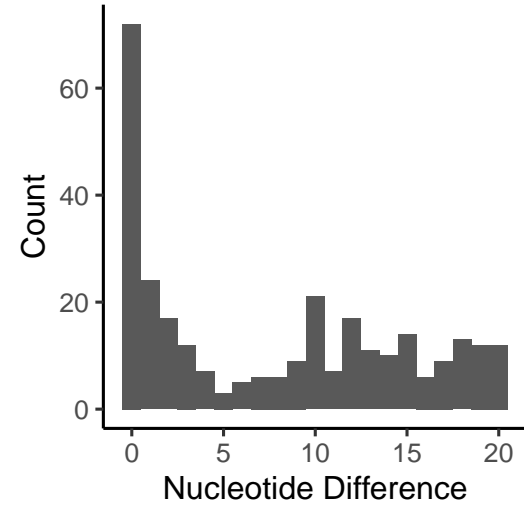
IGHV4-4*07

608 sequences assigned
101 (16.6%) exact matches, in which:
101 unique CDR3
5 unique J



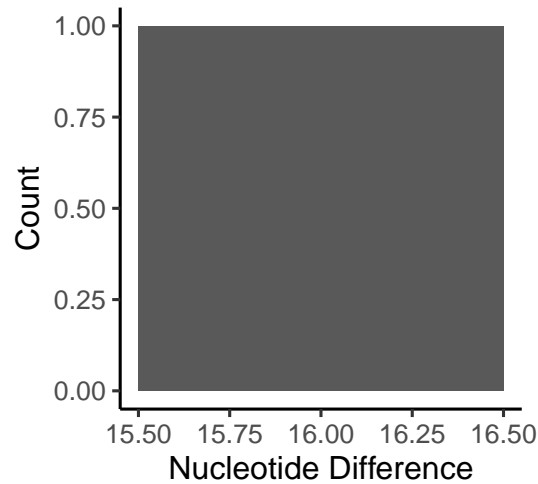
IGHV4-30-4*01

456 sequences assigned
72 (15.8%) exact matches, in which:
71 unique CDR3
5 unique J



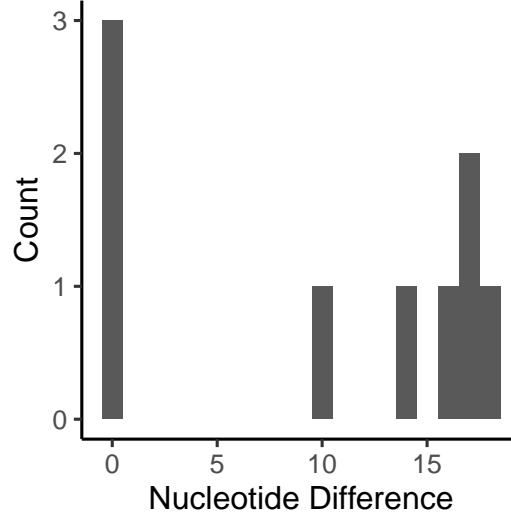
IGHV3-64D*09

1 sequences assigned
No exact matches.



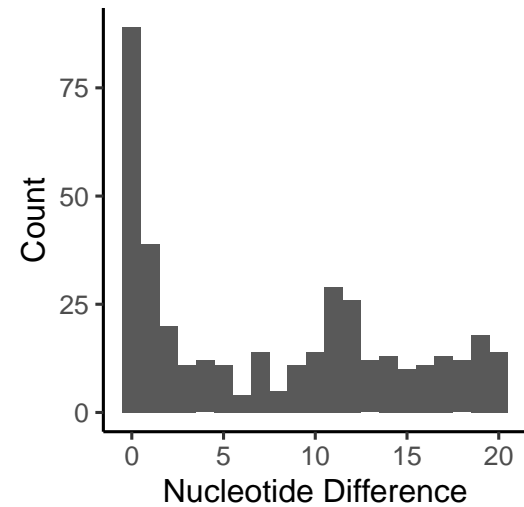
IGHV4-28*01

10 sequences assigned
3 (30%) exact matches, in which:
3 unique CDR3
3 unique J



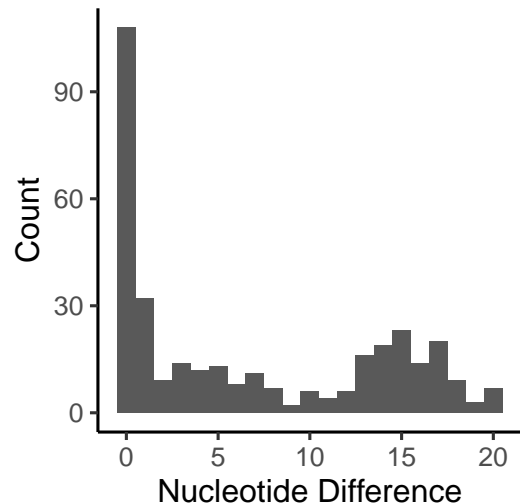
IGHV4-31*03

554 sequences assigned
89 (16.1%) exact matches, in which:
89 unique CDR3
6 unique J



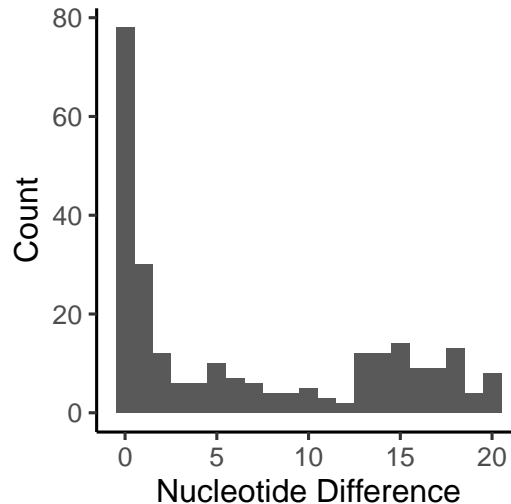
IGHV4-4*02

567 sequences assigned
108 (19%) exact matches, in which:
107 unique CDR3
5 unique J



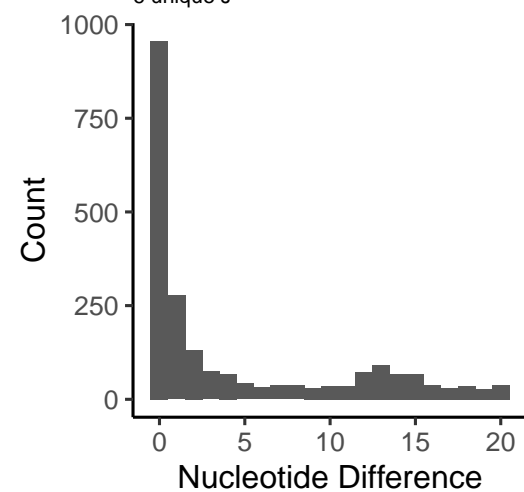
IGHV4-30-2*01

371 sequences assigned
78 (21%) exact matches, in which:
78 unique CDR3
6 unique J



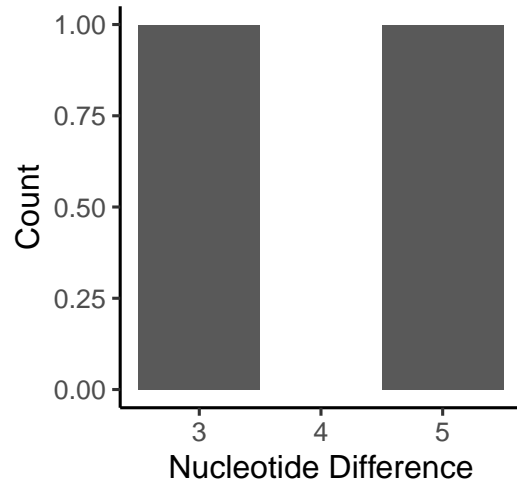
IGHV4-34*01

2875 sequences assigned
956 (33.3%) exact matches, in which:
942 unique CDR3
6 unique J



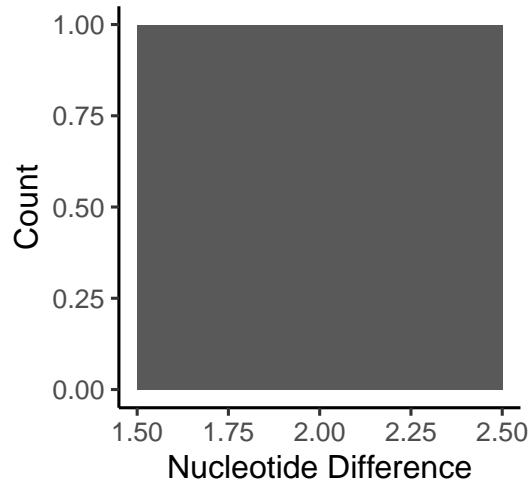
IGHV4-38-2*02

3 sequences assigned
No exact matches.



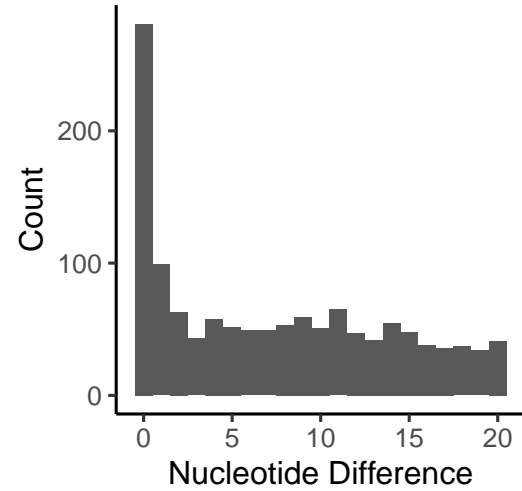
IGHV4-55*08

1 sequences assigned
No exact matches.



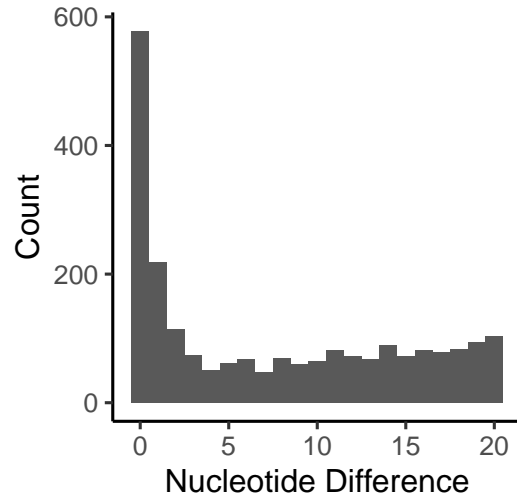
IGHV5-51*01

1662 sequences assigned
281 (16.9%) exact matches, in which:
279 unique CDR3
6 unique J



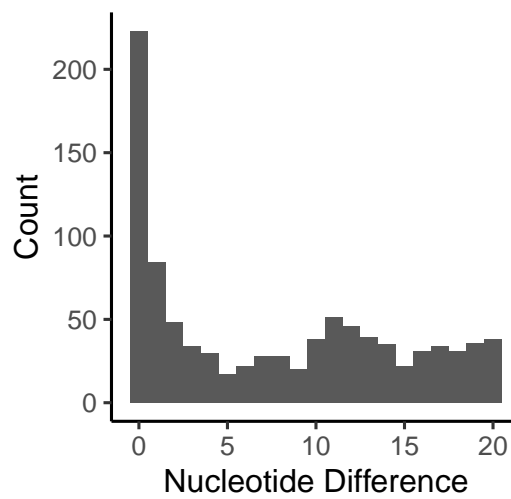
IGHV4-39*01

3730 sequences assigned
578 (15.5%) exact matches, in which:
568 unique CDR3
6 unique J



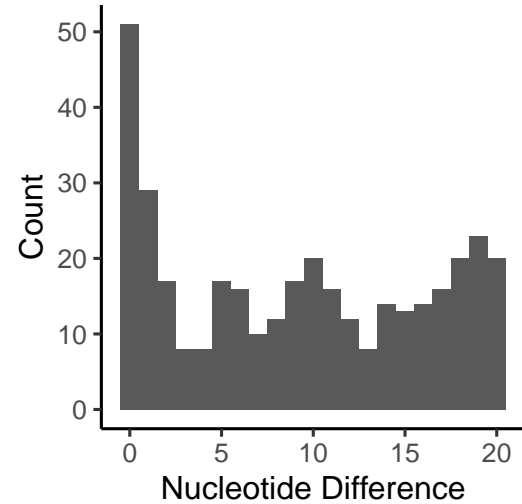
IGHV4-59*01

1341 sequences assigned
223 (16.6%) exact matches, in which:
222 unique CDR3
6 unique J



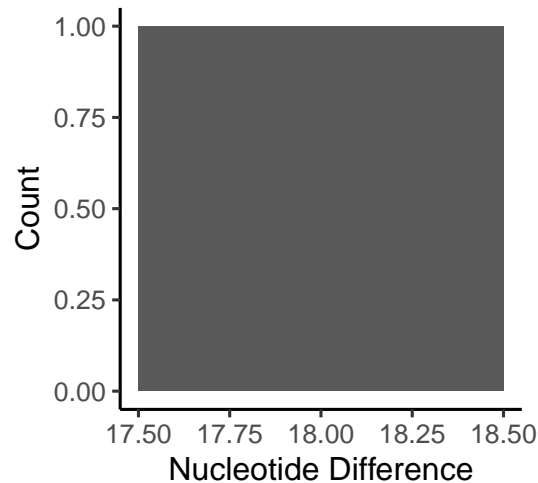
IGHV6-1*01

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



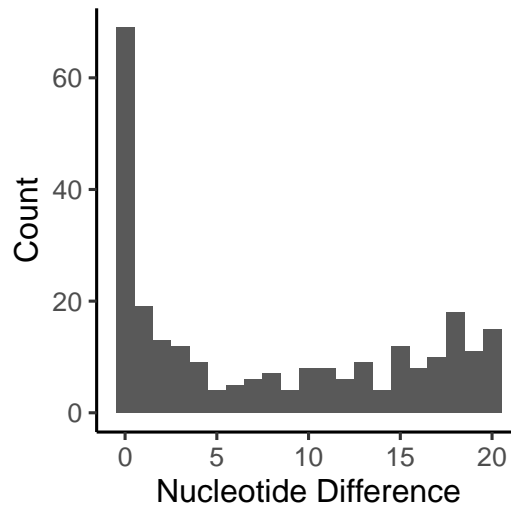
IGHV4-55*01

1 sequences assigned
No exact matches.



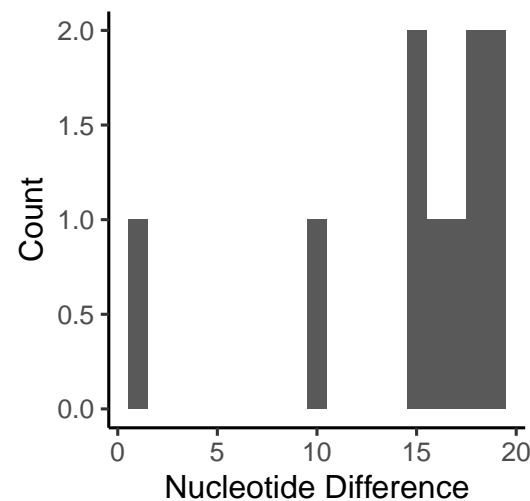
IGHV4-61*01

483 sequences assigned
69 (14.3%) exact matches, in which:
69 unique CDR3
6 unique J



IGHV7-4-1*01

11 sequences assigned
No exact matches.





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.

Warning – no inferred sequences found.

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Warning – no inferred sequences found.