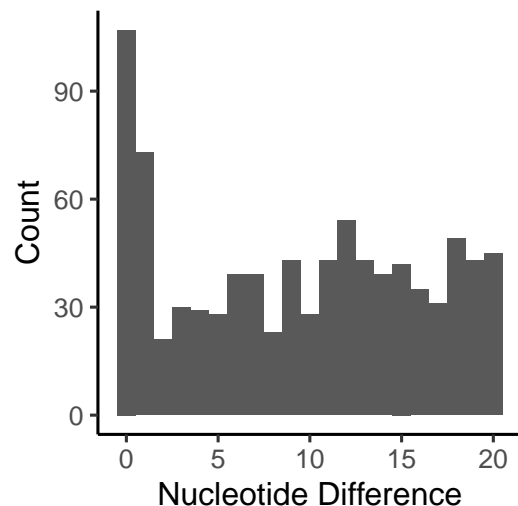


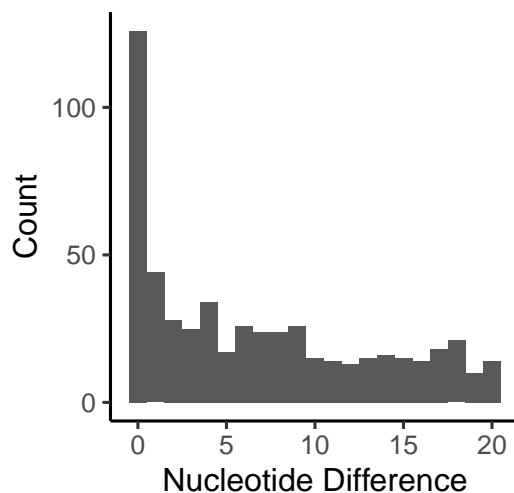
IGHV1-2*02

1492 sequences assigned
107 (7.2%) exact matches, in which:
99 unique CDR3
5 unique J



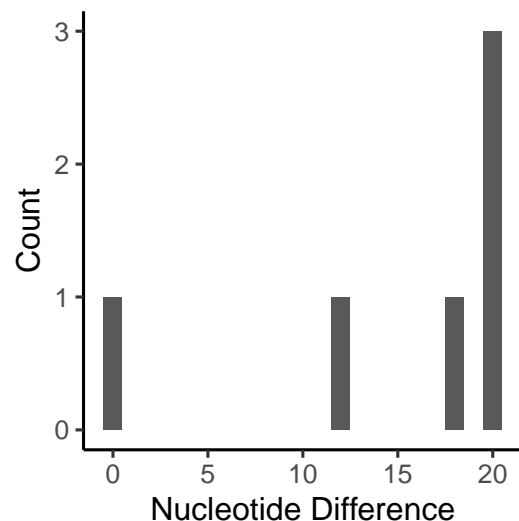
IGHV1-8*01

658 sequences assigned
126 (19.1%) exact matches, in which:
122 unique CDR3
6 unique J



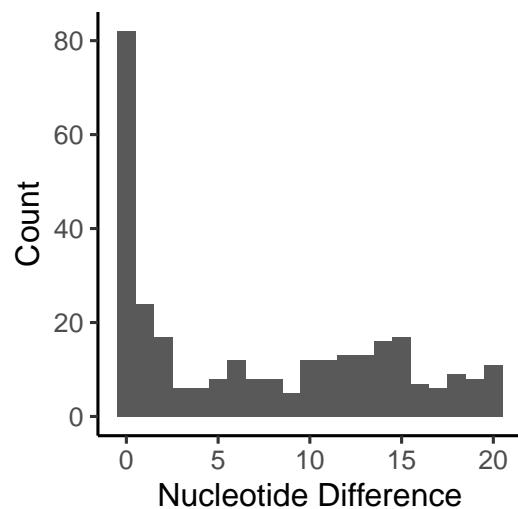
IGHV1-45*02

40 sequences assigned
1 (2.5%) exact matches, in which:
1 unique CDR3
1 unique J



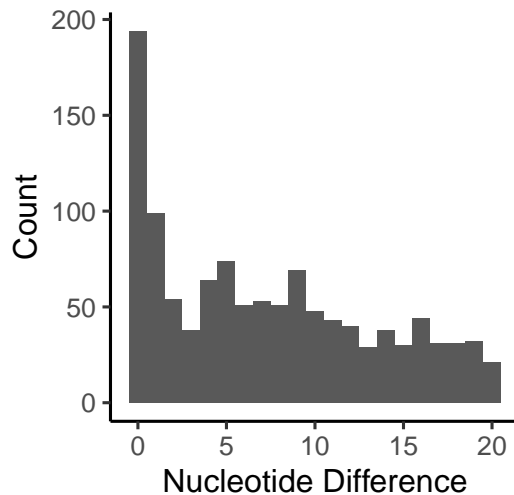
IGHV1-3*01

418 sequences assigned
82 (19.6%) exact matches, in which:
61 unique CDR3
5 unique J



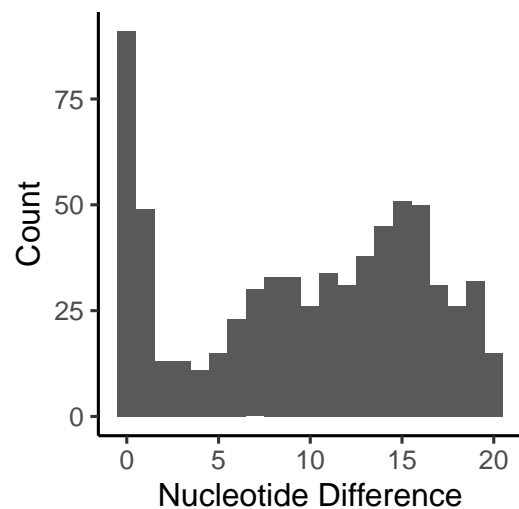
IGHV1-18*01

1713 sequences assigned
194 (11.3%) exact matches, in which:
172 unique CDR3
6 unique J



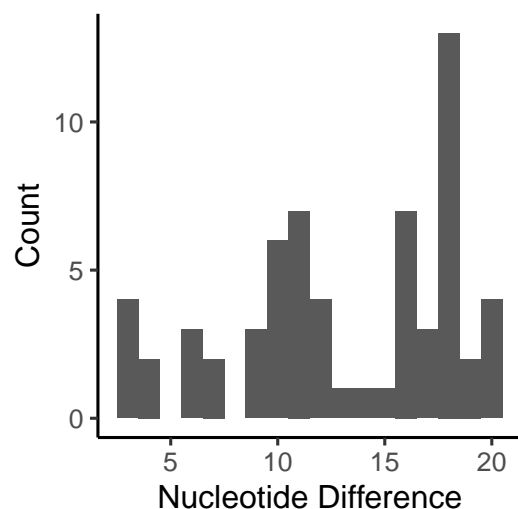
IGHV1-46*01

993 sequences assigned
91 (9.2%) exact matches, in which:
89 unique CDR3
5 unique J



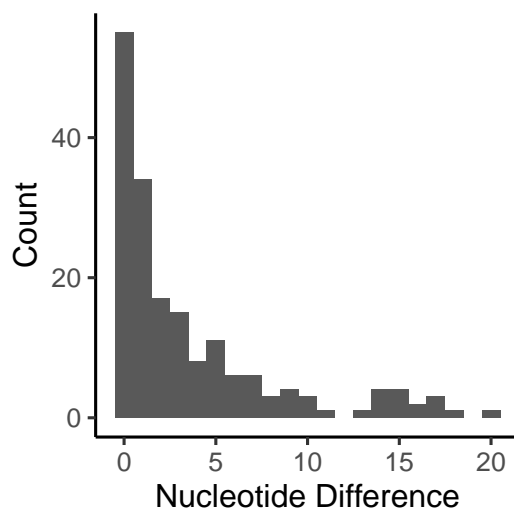
IGHV1-3*04

106 sequences assigned
No exact matches.



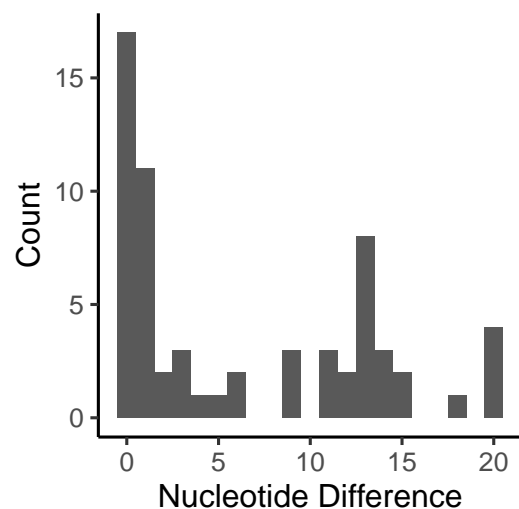
IGHV1-24*01

208 sequences assigned
55 (26.4%) exact matches, in which:
51 unique CDR3
5 unique J



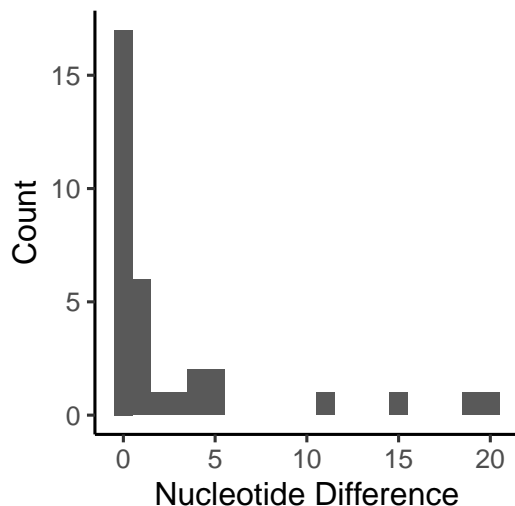
IGHV1-58*01

82 sequences assigned
17 (20.7%) exact matches, in which:
17 unique CDR3
4 unique J



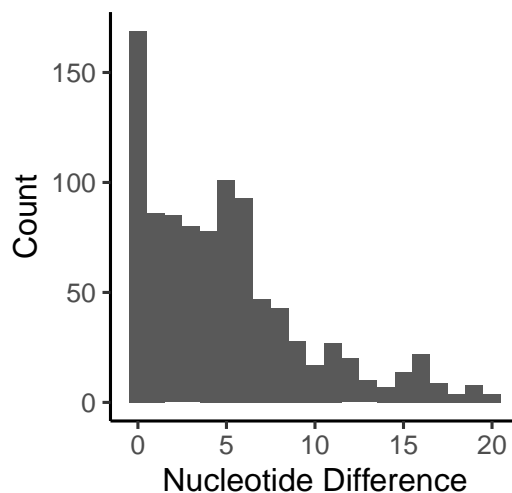
IGHV1-69-2*01

53 sequences assigned
17 (32.1%) exact matches, in which:
16 unique CDR3
3 unique J



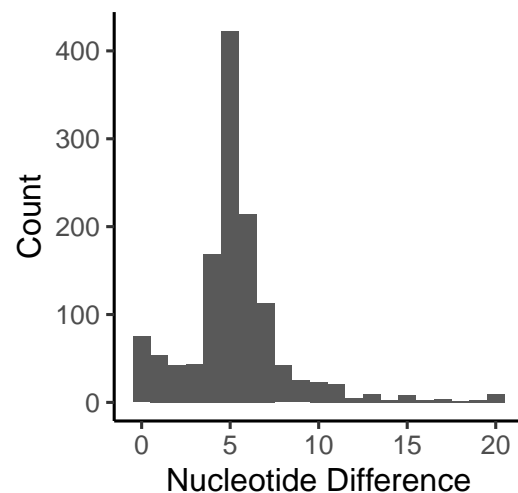
IGHV2-5*01

1040 sequences assigned
169 (16.2%) exact matches, in which:
133 unique CDR3
6 unique J



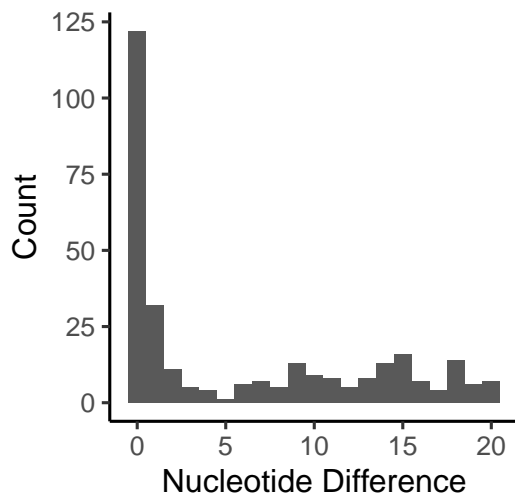
IGHV2-70*01

1332 sequences assigned
75 (5.6%) exact matches, in which:
72 unique CDR3
5 unique J



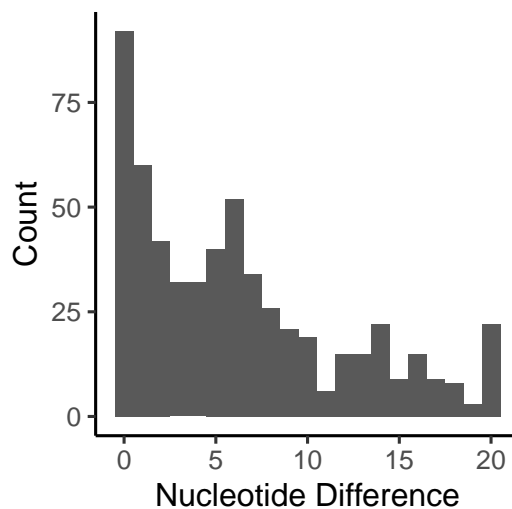
IGHV1-69*06

492 sequences assigned
122 (24.8%) exact matches, in which:
120 unique CDR3
5 unique J



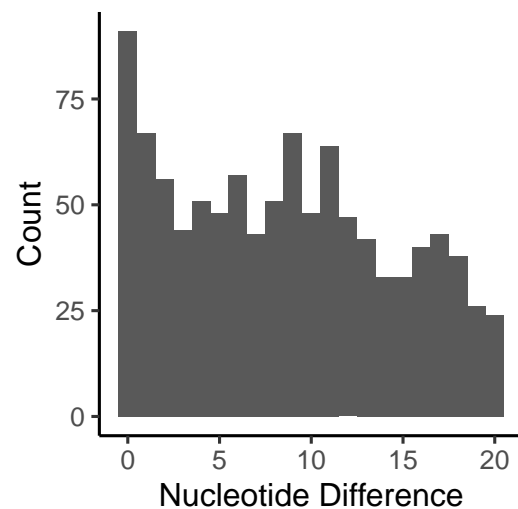
IGHV2-5*02

726 sequences assigned
92 (12.7%) exact matches, in which:
79 unique CDR3
6 unique J



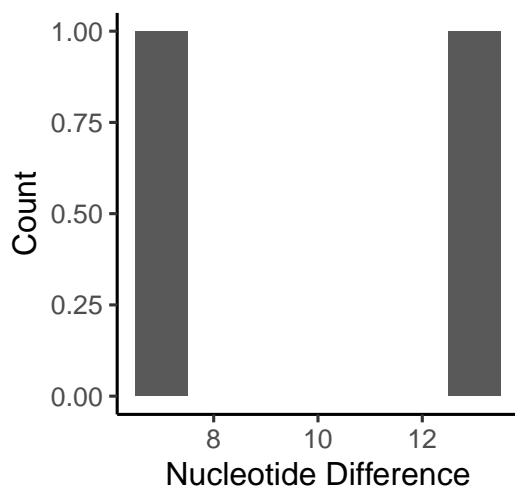
IGHV3-7*01

1207 sequences assigned
91 (7.5%) exact matches, in which:
74 unique CDR3
5 unique J



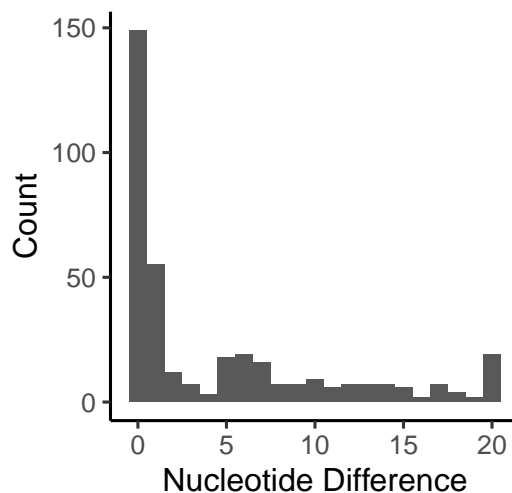
IGHV1-NL1*01

2 sequences assigned
No exact matches.



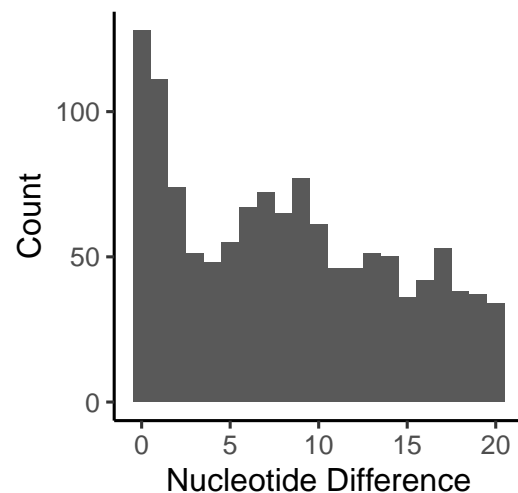
IGHV2-26*01

475 sequences assigned
149 (31.4%) exact matches, in which:
129 unique CDR3
6 unique J



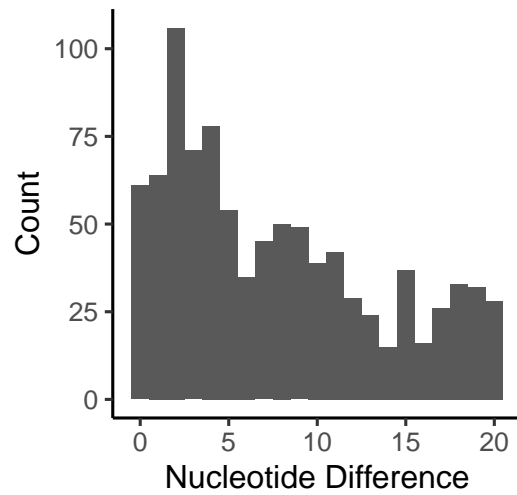
IGHV3-9*01

1532 sequences assigned
128 (8.4%) exact matches, in which:
107 unique CDR3
5 unique J



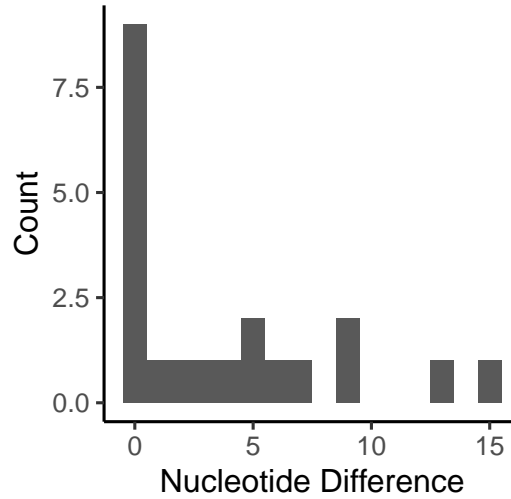
IGHV3-11*01

1245 sequences assigned
61 (4.9%) exact matches, in which:
58 unique CDR3
5 unique J



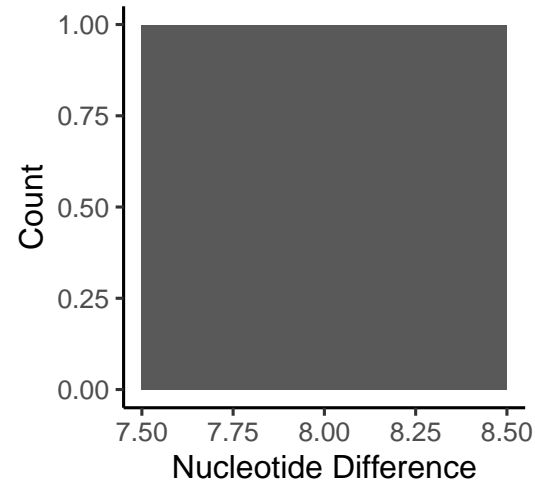
IGHV3-20*01

28 sequences assigned
9 (32.1%) exact matches, in which:
9 unique CDR3
4 unique J



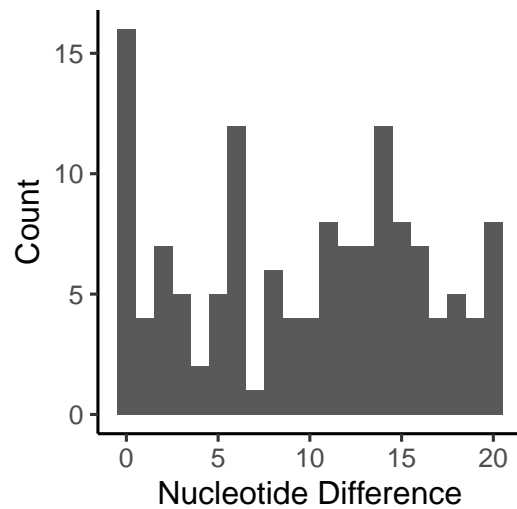
IGHV3-30-3*03

31 sequences assigned
No exact matches.



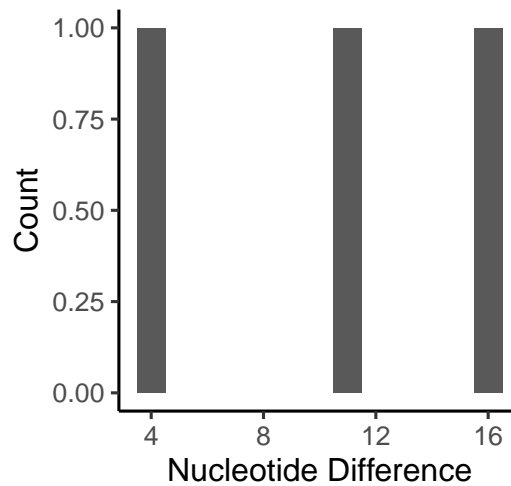
IGHV3-13*01

149 sequences assigned
16 (10.7%) exact matches, in which:
15 unique CDR3
4 unique J



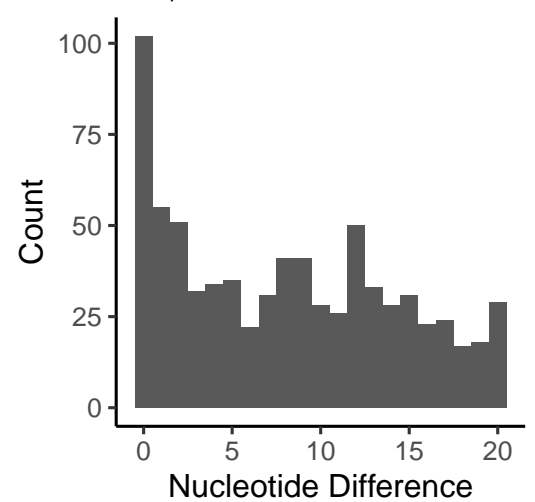
IGHV3-20*04

18 sequences assigned
No exact matches.



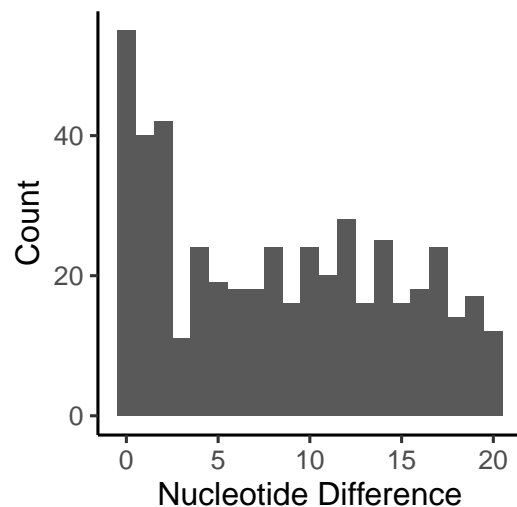
IGHV3-33*01

954 sequences assigned
102 (10.7%) exact matches, in which:
101 unique CDR3
5 unique J



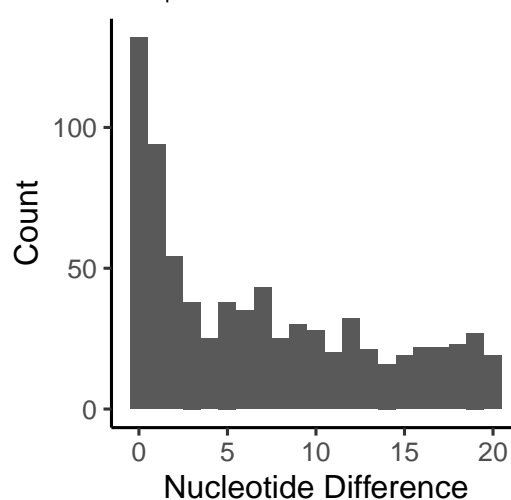
IGHV3-15*01

634 sequences assigned
55 (8.7%) exact matches, in which:
53 unique CDR3
4 unique J



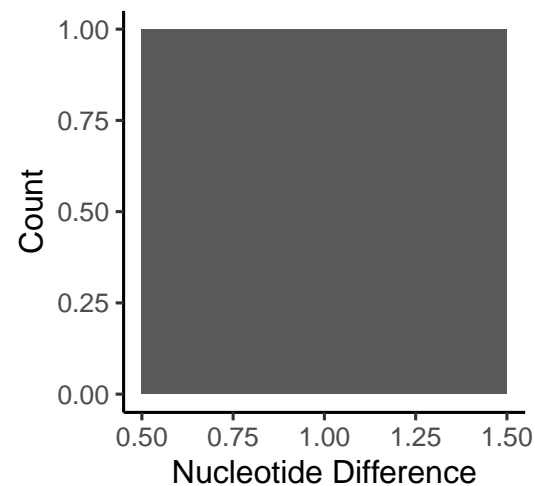
IGHV3-21*01

1000 sequences assigned
132 (13.2%) exact matches, in which:
116 unique CDR3
6 unique J



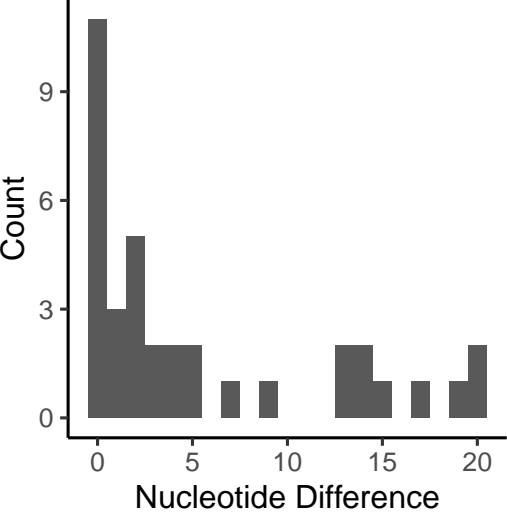
IGHV3-35*01

1 sequences assigned
No exact matches.



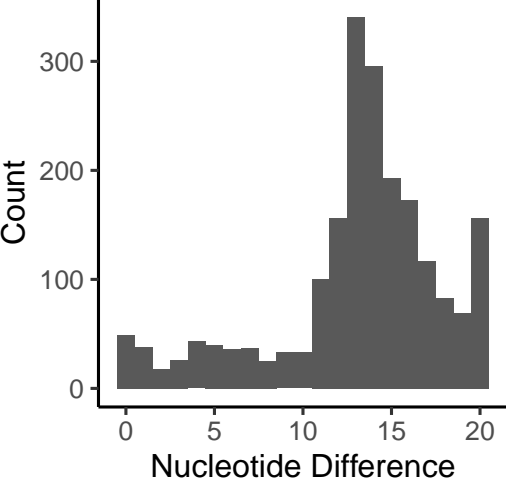
IGHV3-43*01

68 sequences assigned
11 (16.2%) exact matches, in which:
10 unique CDR3
3 unique J



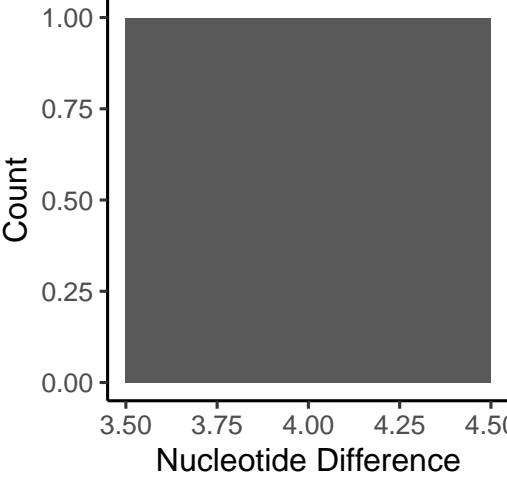
IGHV3-53*01

2772 sequences assigned
49 (1.8%) exact matches, in which:
44 unique CDR3
5 unique J



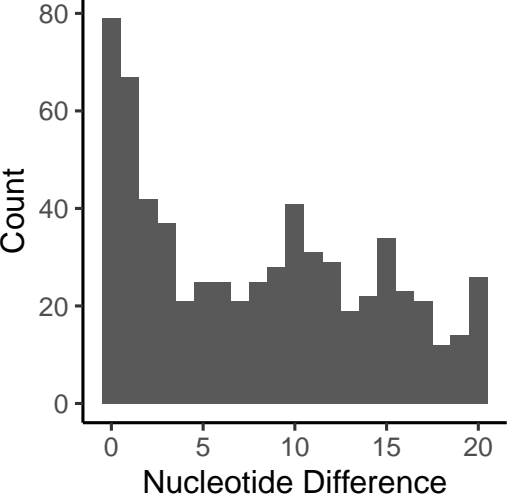
IGHV3-66*04

1 sequences assigned
No exact matches.



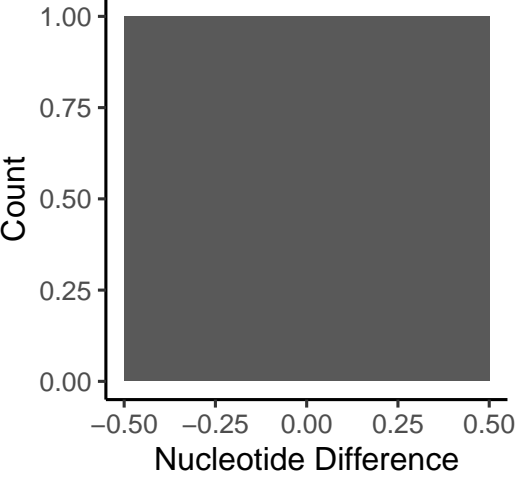
IGHV3-48*02

834 sequences assigned
79 (9.5%) exact matches, in which:
61 unique CDR3
6 unique J



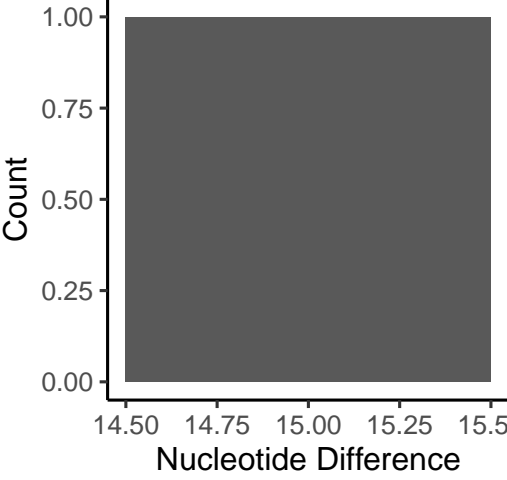
IGHV3-64*01

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



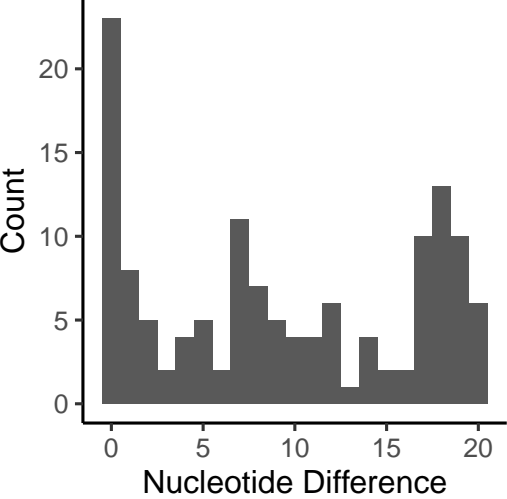
IGHV3-69-1*01

3 sequences assigned
No exact matches.



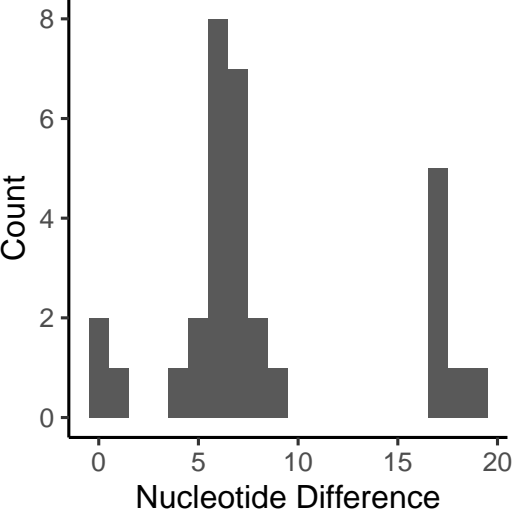
IGHV3-49*05

277 sequences assigned
23 (8.3%) exact matches, in which:
23 unique CDR3
6 unique J



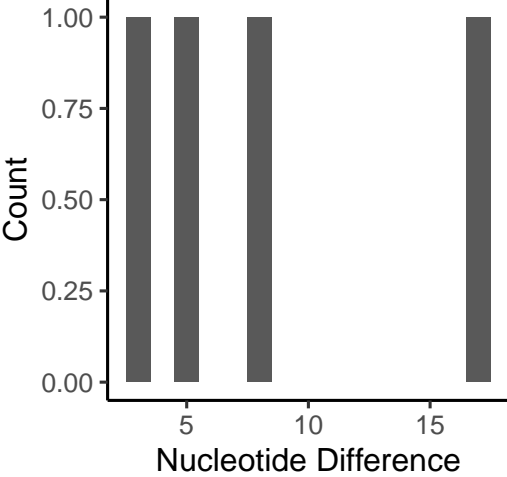
IGHV3-64*02

35 sequences assigned
2 (5.7%) exact matches, in which:
2 unique CDR3
1 unique J



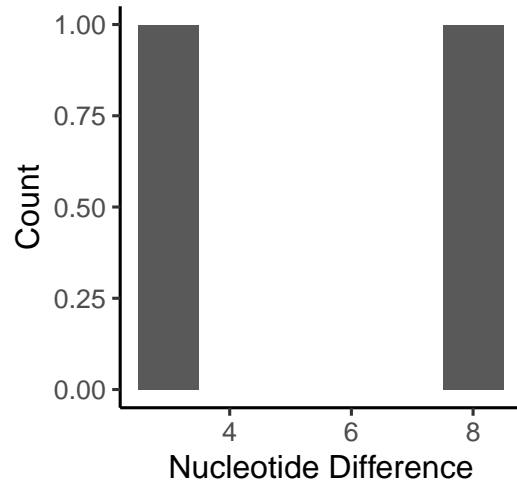
IGHV3-69-1*02

4 sequences assigned
No exact matches.



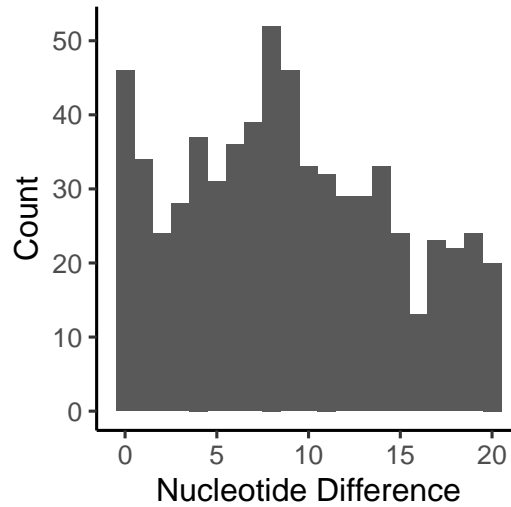
IGHV3-71*01

2 sequences assigned
No exact matches.



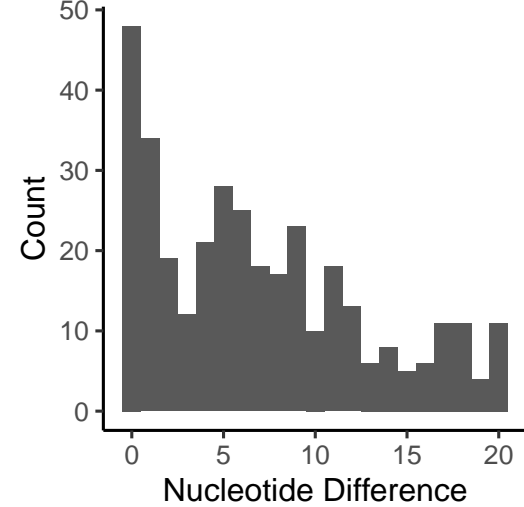
IGHV3-74*01

836 sequences assigned
46 (5.5%) exact matches, in which:
41 unique CDR3
5 unique J



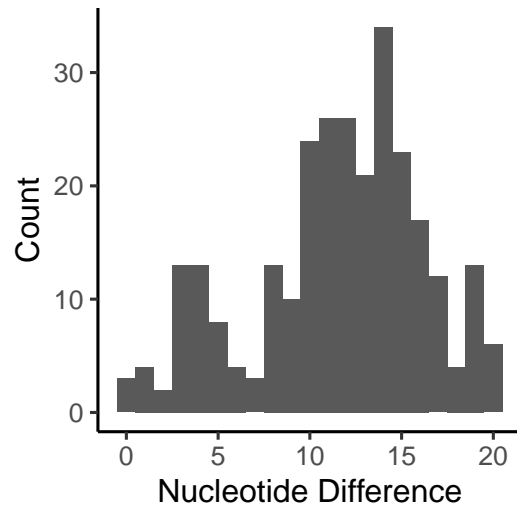
IGHV4-4*07

453 sequences assigned
48 (10.6%) exact matches, in which:
44 unique CDR3
5 unique J



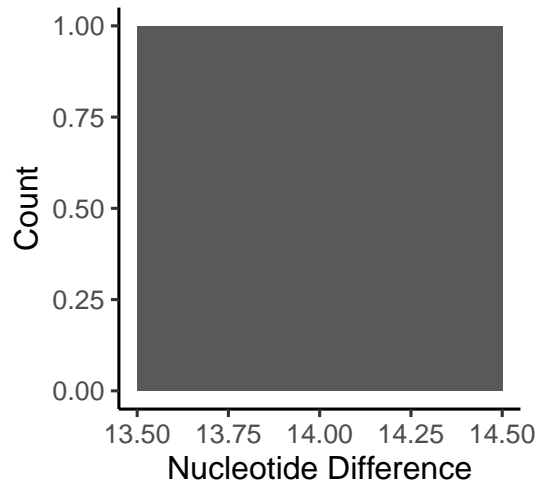
IGHV3-72*01

320 sequences assigned
3 (0.9%) exact matches, in which:
3 unique CDR3
3 unique J



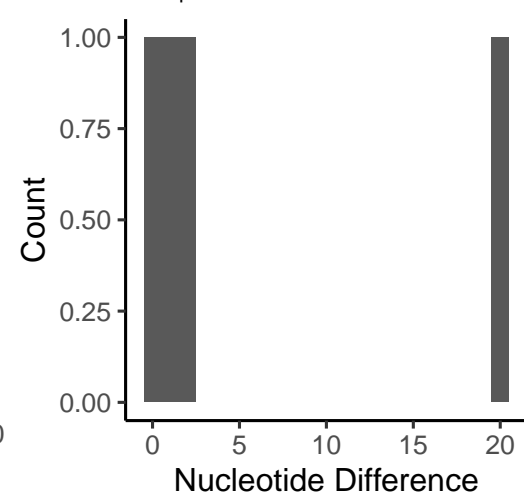
IGHV3-43D*04

2 sequences assigned
No exact matches.



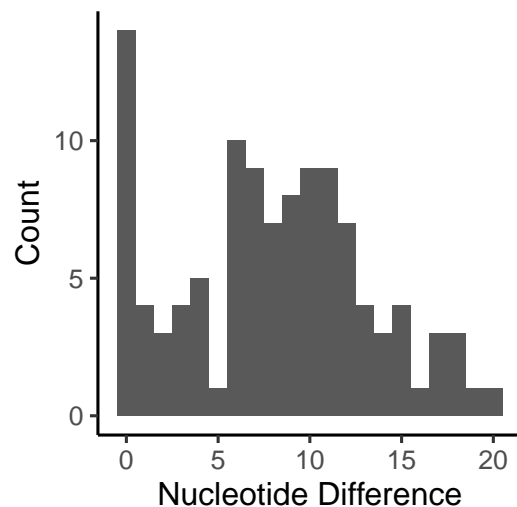
IGHV4-28*01

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



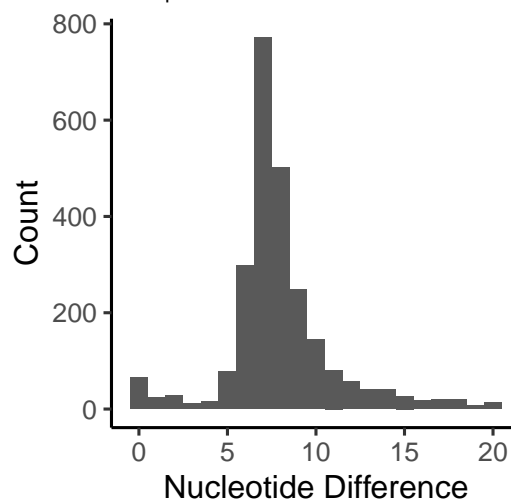
IGHV3-73*02

123 sequences assigned
14 (11.4%) exact matches, in which:
14 unique CDR3
3 unique J



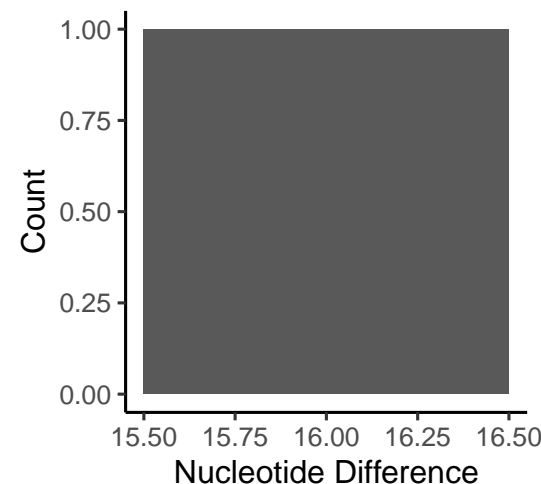
IGHV4-4*02

2640 sequences assigned
65 (2.5%) exact matches, in which:
45 unique CDR3
5 unique J



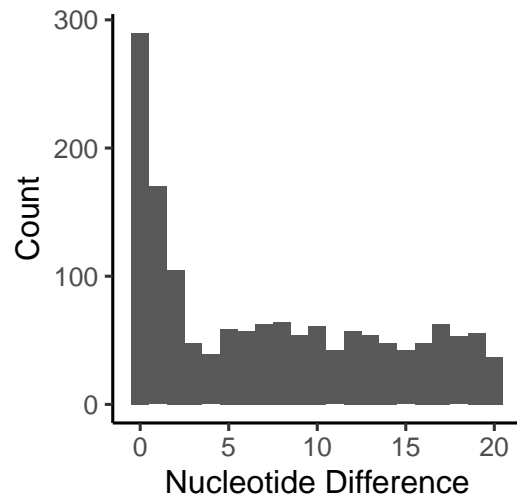
IGHV4-30-4*05

2 sequences assigned
No exact matches.



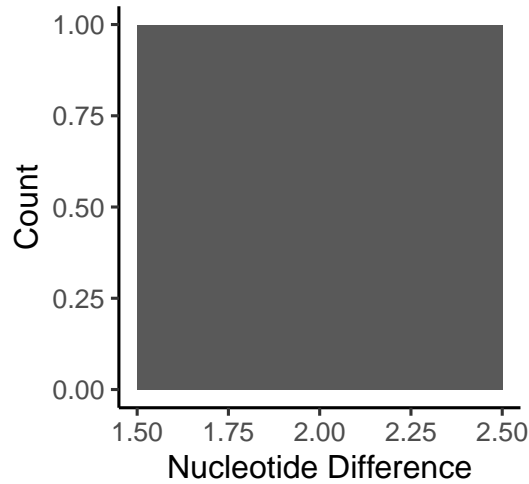
IGHV4-31*03

1930 sequences assigned
290 (15%) exact matches, in which:
243 unique CDR3
6 unique J



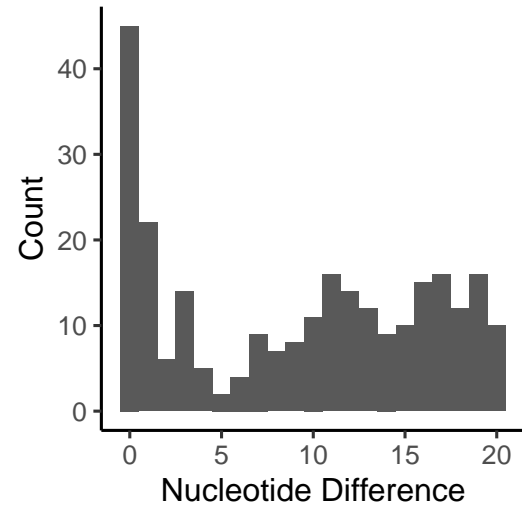
IGHV4-55*01

1 sequences assigned
No exact matches.



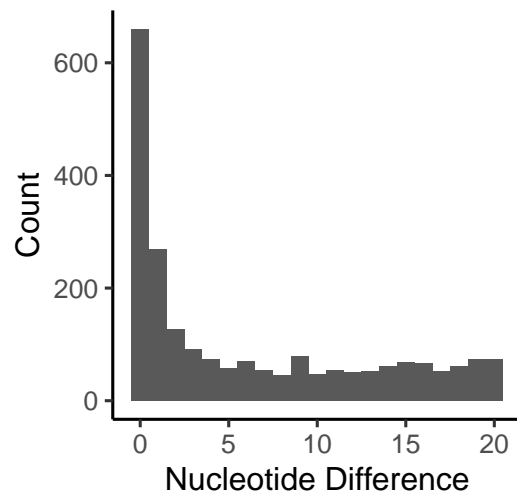
IGHV4-61*01

352 sequences assigned
45 (12.8%) exact matches, in which:
37 unique CDR3
5 unique J



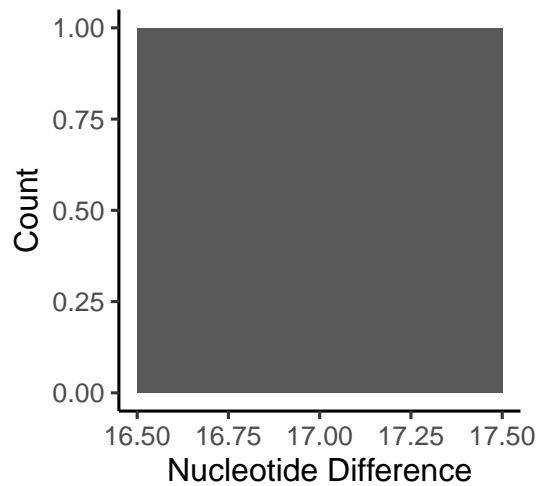
IGHV4-34*01

3530 sequences assigned
660 (18.7%) exact matches, in which:
630 unique CDR3
6 unique J



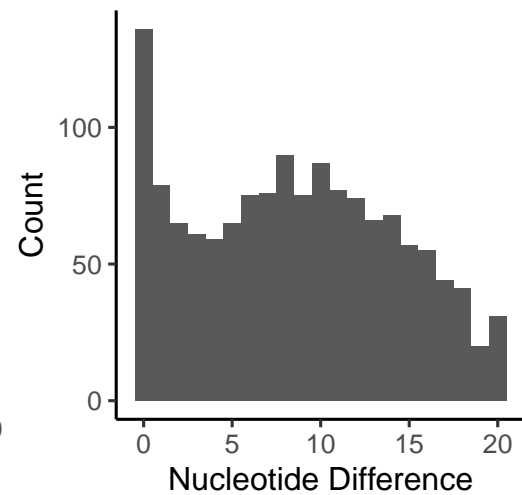
IGHV4-55*08

1 sequences assigned
No exact matches.



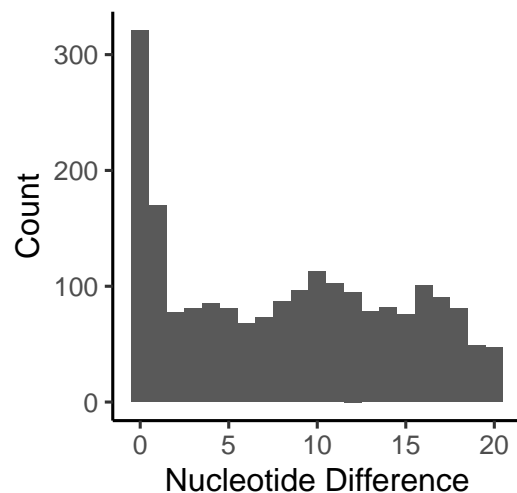
IGHV5-51*01

1644 sequences assigned
136 (8.3%) exact matches, in which:
123 unique CDR3
5 unique J



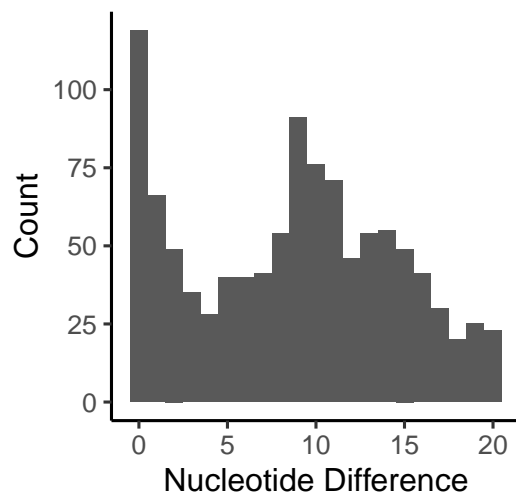
IGHV4-39*01

3671 sequences assigned
321 (8.7%) exact matches, in which:
288 unique CDR3
6 unique J



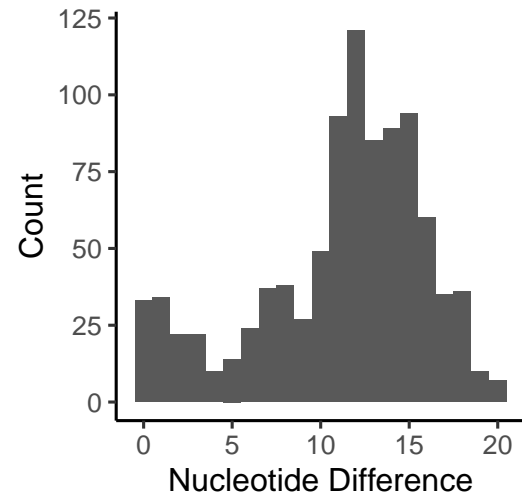
IGHV4-59*01

1242 sequences assigned
119 (9.6%) exact matches, in which:
103 unique CDR3
5 unique J



IGHV6-1*01

993 sequences assigned
33 (3.3%) exact matches, in which:
26 unique CDR3
5 unique J





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