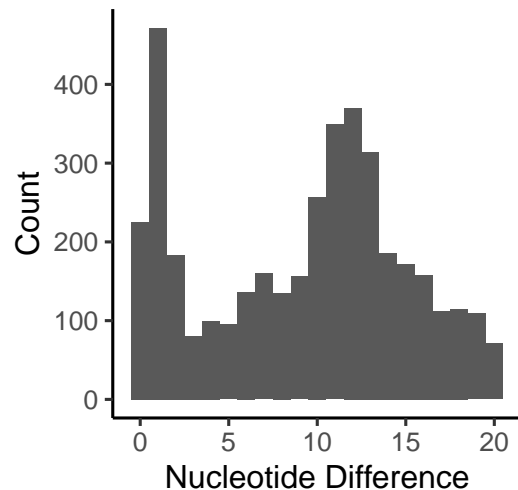


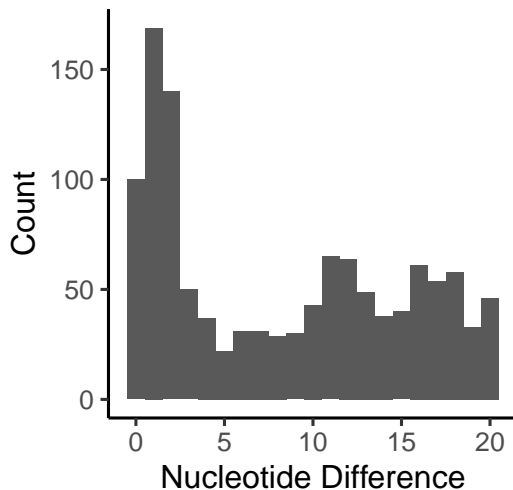
IGHV1-2*02

4608 sequences assigned
225 (4.9%) exact matches, in which:
171 unique CDR3
5 unique J



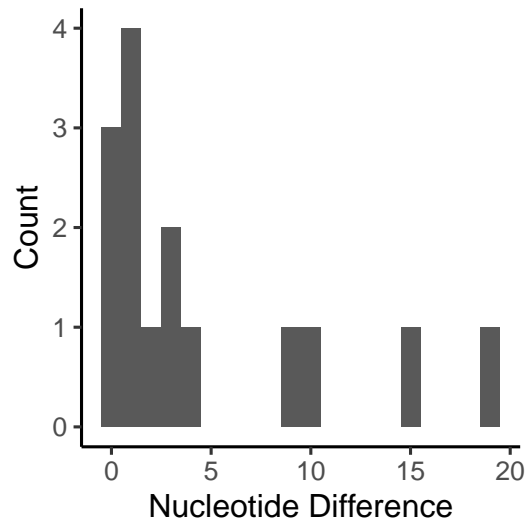
IGHV1-18*01

1369 sequences assigned
100 (7.3%) exact matches, in which:
79 unique CDR3
5 unique J



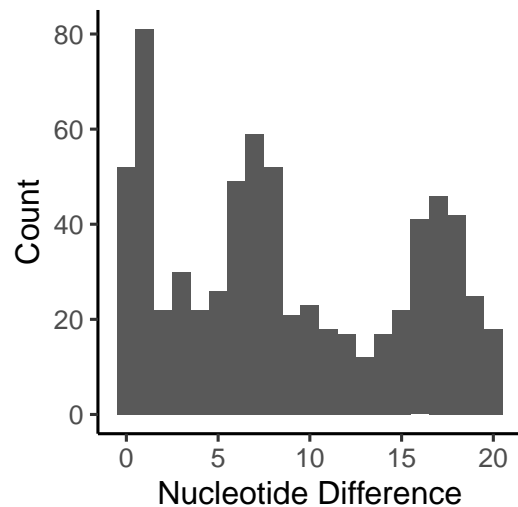
IGHV1-45*02

16 sequences assigned
3 (18.8%) exact matches, in which:
2 unique CDR3
1 unique J



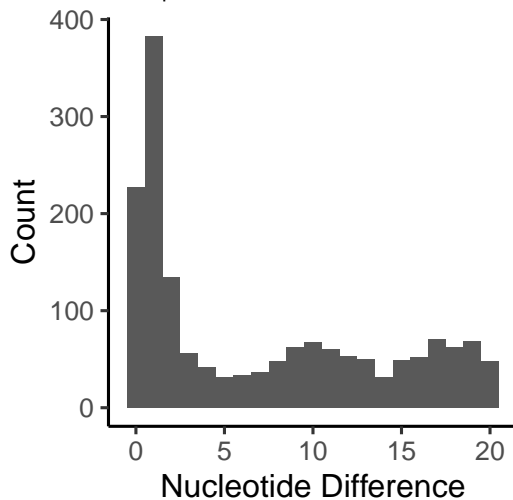
IGHV1-3*01_05

1414 sequences assigned
52 (3.7%) exact matches, in which:
37 unique CDR3
5 unique J



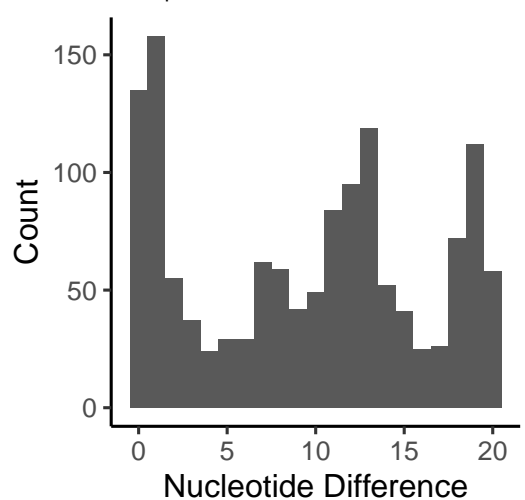
IGHV1-18*04

1900 sequences assigned
227 (11.9%) exact matches, in which:
169 unique CDR3
6 unique J



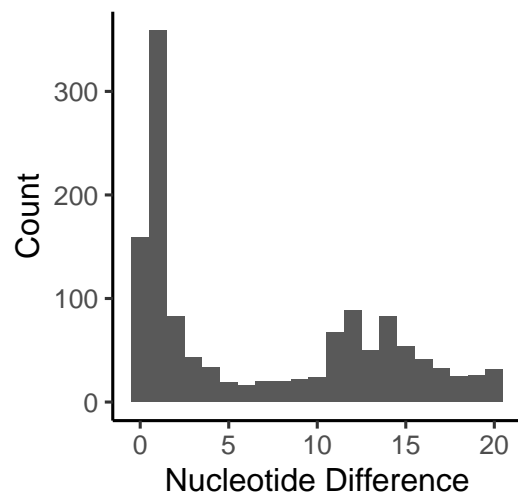
IGHV1-46*01

1674 sequences assigned
135 (8.1%) exact matches, in which:
109 unique CDR3
5 unique J



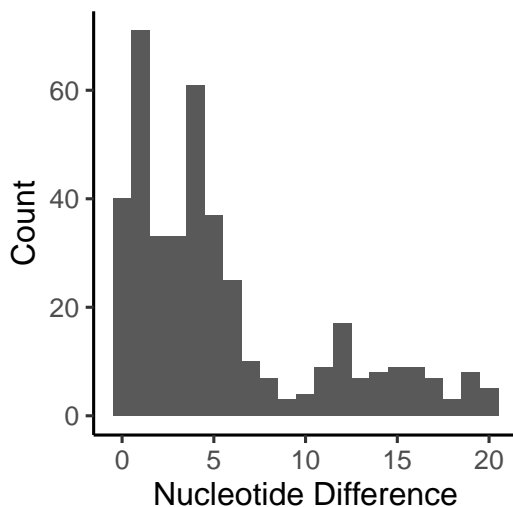
IGHV1-8*01

1483 sequences assigned
159 (10.7%) exact matches, in which:
107 unique CDR3
6 unique J



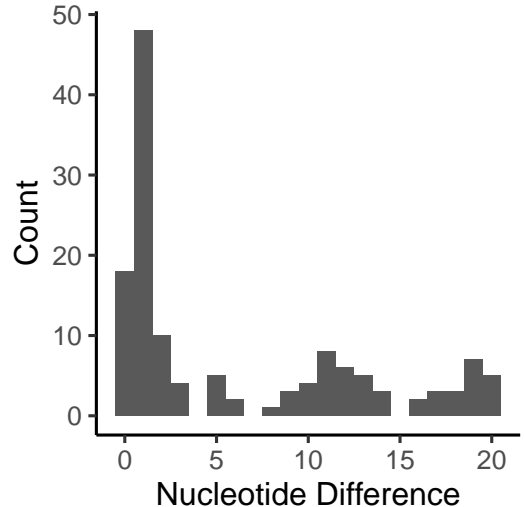
IGHV1-24*01

514 sequences assigned
40 (7.8%) exact matches, in which:
30 unique CDR3
4 unique J



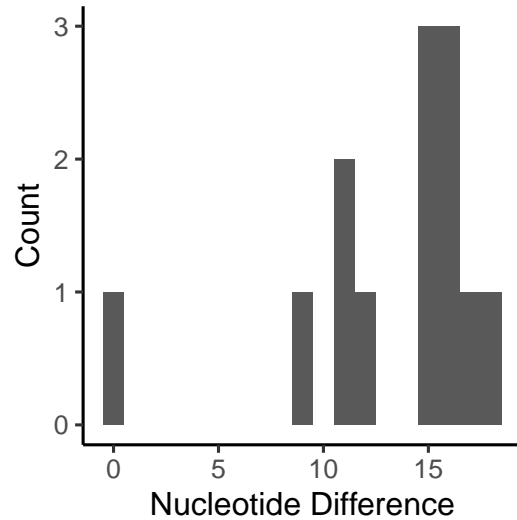
IGHV1-58*01_03

162 sequences assigned
18 (11.1%) exact matches, in which:
16 unique CDR3
5 unique J



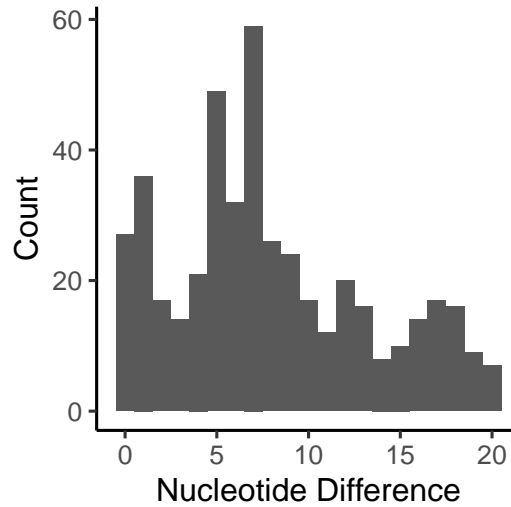
IGHV1-69-2*01

14 sequences assigned
1 (7.1%) exact matches, in which:
1 unique CDR3
1 unique J



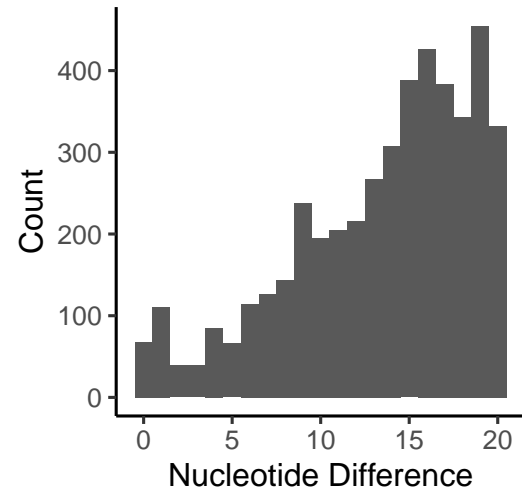
IGHV2-5*02

497 sequences assigned
27 (5.4%) exact matches, in which:
21 unique CDR3
3 unique J



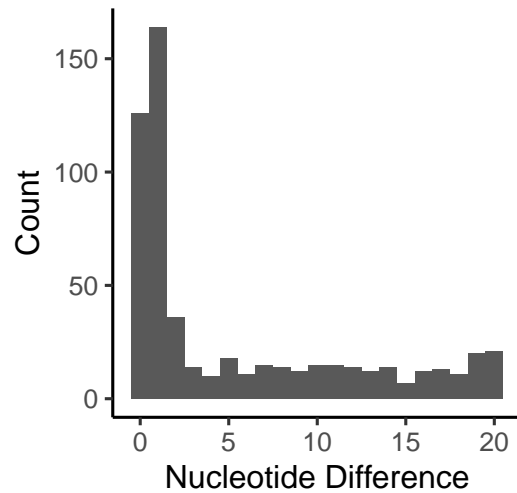
IGHV3-7*01

5853 sequences assigned
68 (1.2%) exact matches, in which:
56 unique CDR3
5 unique J



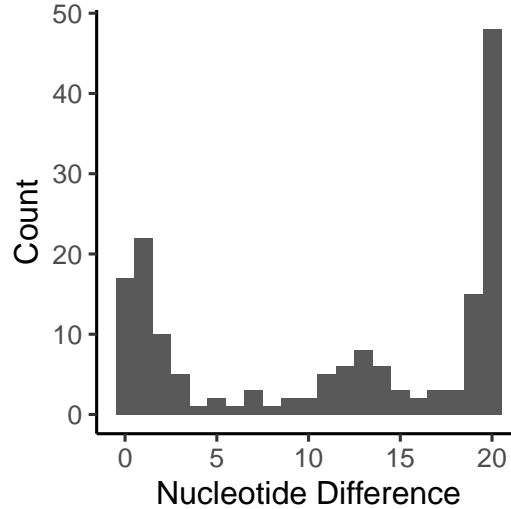
IGHV1-69*06_14

728 sequences assigned
126 (17.3%) exact matches, in which:
103 unique CDR3
5 unique J



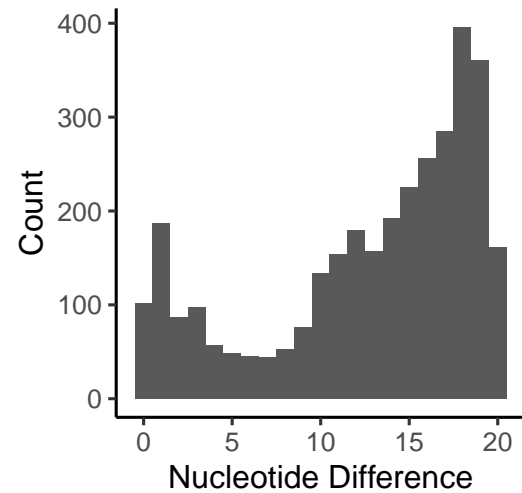
IGHV2-26*01

203 sequences assigned
17 (8.4%) exact matches, in which:
16 unique CDR3
5 unique J



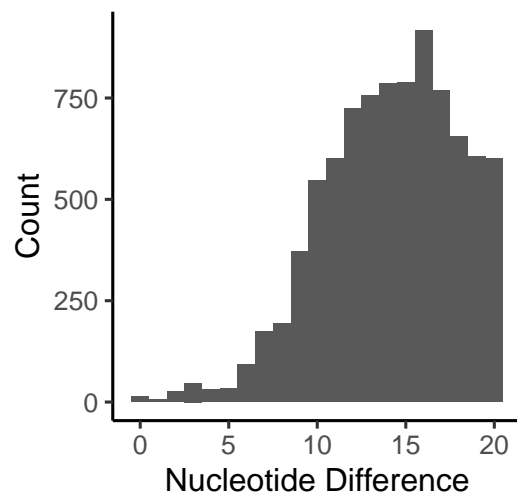
IGHV3-7*03

3825 sequences assigned
102 (2.7%) exact matches, in which:
73 unique CDR3
4 unique J



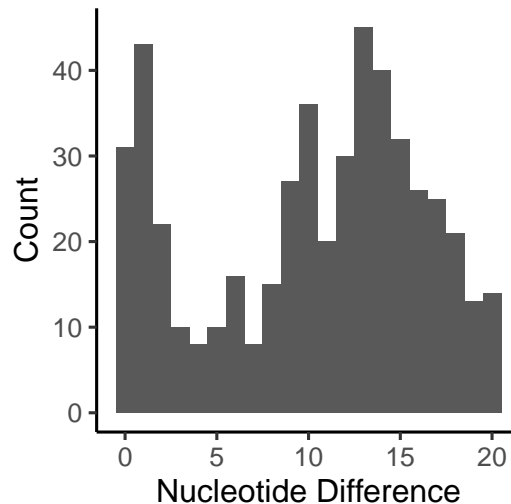
IGHV2-5*01

10003 sequences assigned
14 (0.1%) exact matches, in which:
12 unique CDR3
3 unique J



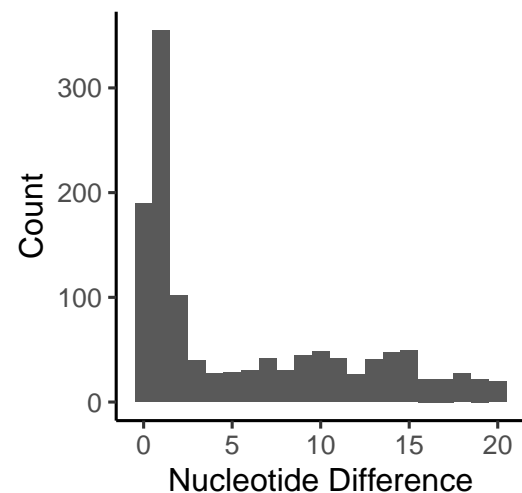
IGHV2-70*11_15

670 sequences assigned
31 (4.6%) exact matches, in which:
24 unique CDR3
4 unique J



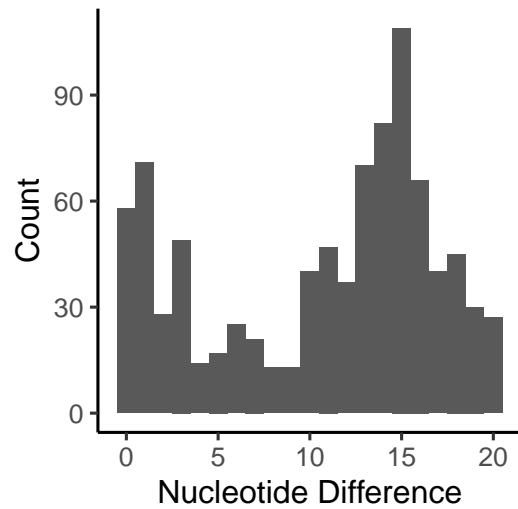
IGHV3-9*01

1364 sequences assigned
190 (13.9%) exact matches, in which:
137 unique CDR3
6 unique J



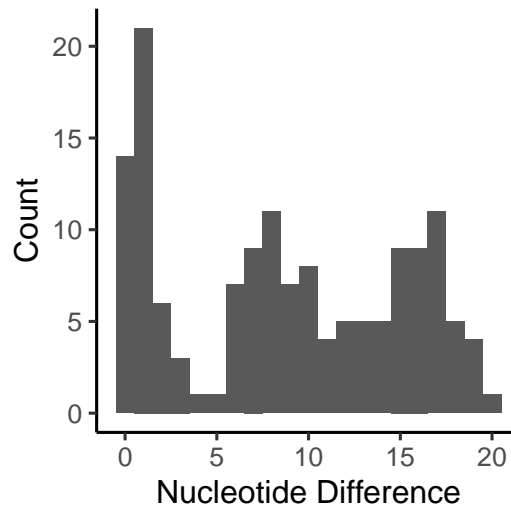
IGHV3-11*01

1117 sequences assigned
58 (5.2%) exact matches, in which:
53 unique CDR3
5 unique J



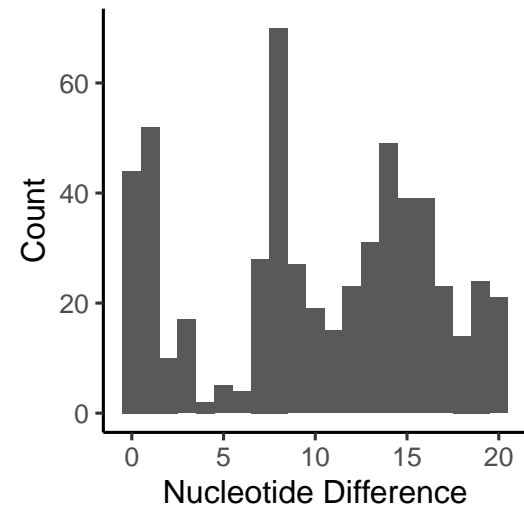
IGHV3-13*01

157 sequences assigned
14 (8.9%) exact matches, in which:
9 unique CDR3
3 unique J



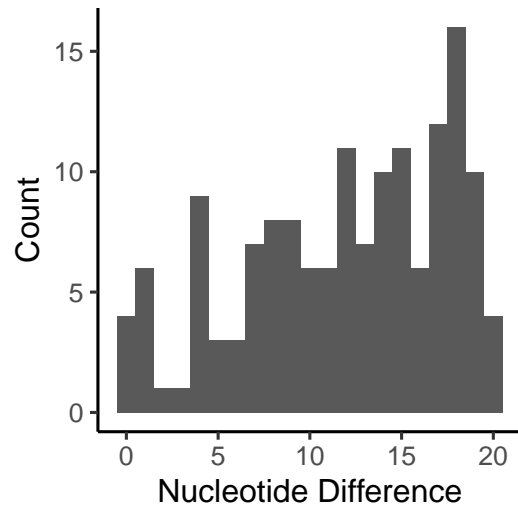
IGHV3-15*01_02

787 sequences assigned
44 (5.6%) exact matches, in which:
35 unique CDR3
4 unique J



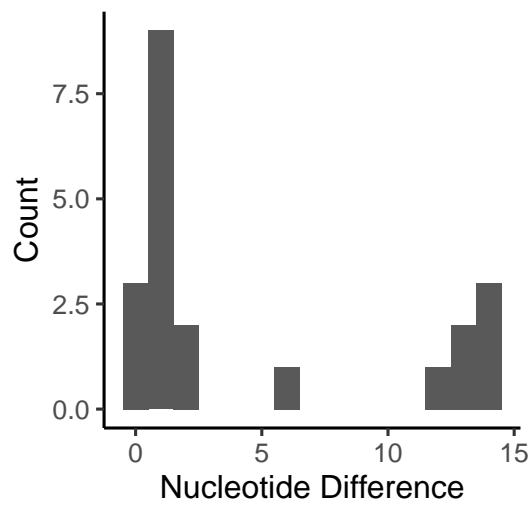
IGHV3-11*04

190 sequences assigned
4 (2.1%) exact matches, in which:
4 unique CDR3
1 unique J



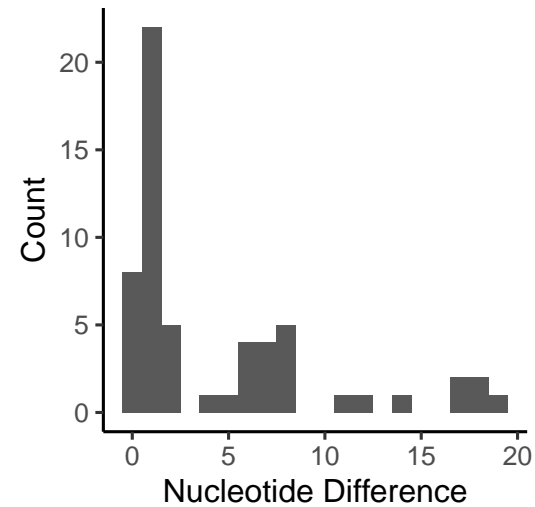
IGHV3-13*05

24 sequences assigned
3 (12.5%) exact matches, in which:
3 unique CDR3
1 unique J



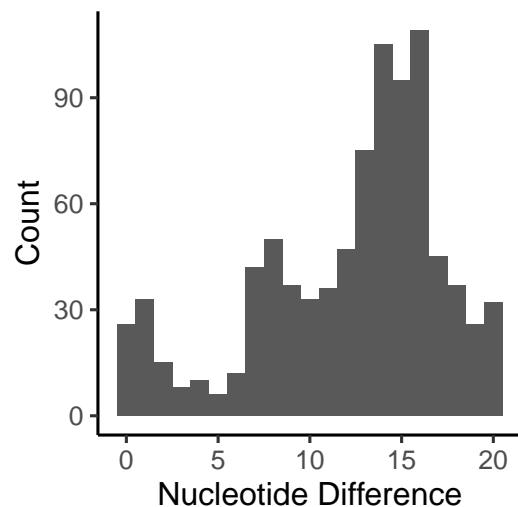
IGHV3-20*03_04

66 sequences assigned
8 (12.1%) exact matches, in which:
6 unique CDR3
2 unique J



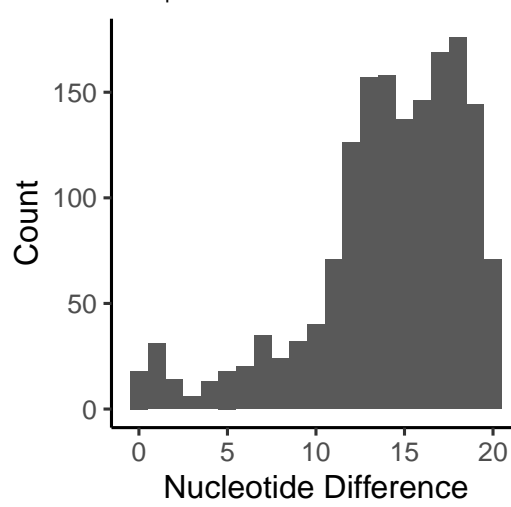
IGHV3-11*06

957 sequences assigned
26 (2.7%) exact matches, in which:
23 unique CDR3
4 unique J



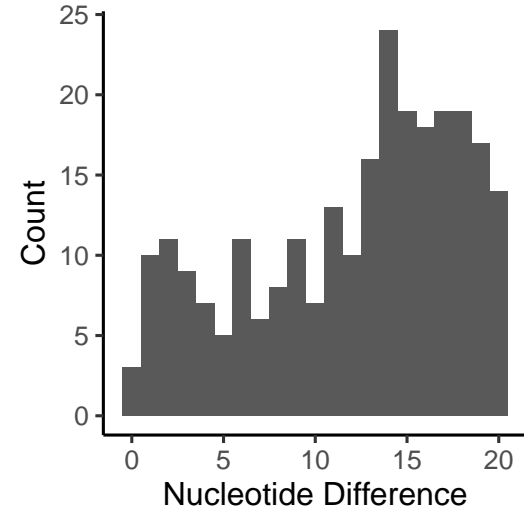
IGHV3-15*07

1911 sequences assigned
18 (0.9%) exact matches, in which:
16 unique CDR3
4 unique J



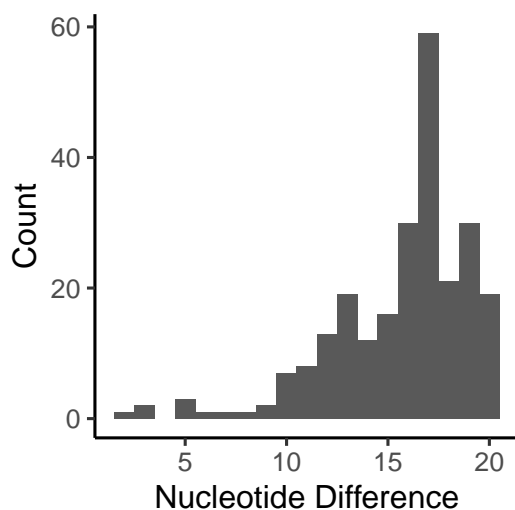
IGHV3-21*04

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



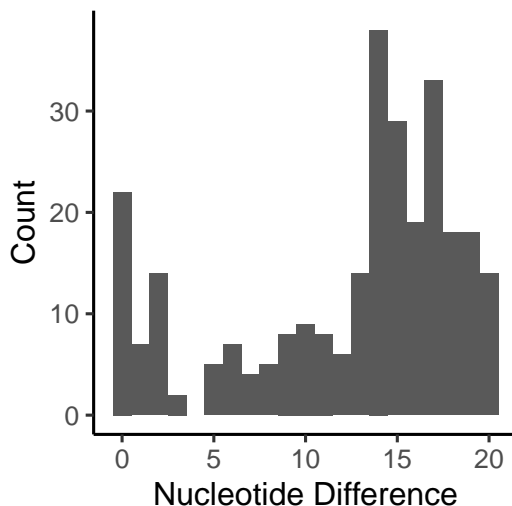
IGHV3-21*06

436 sequences assigned
No exact matches.



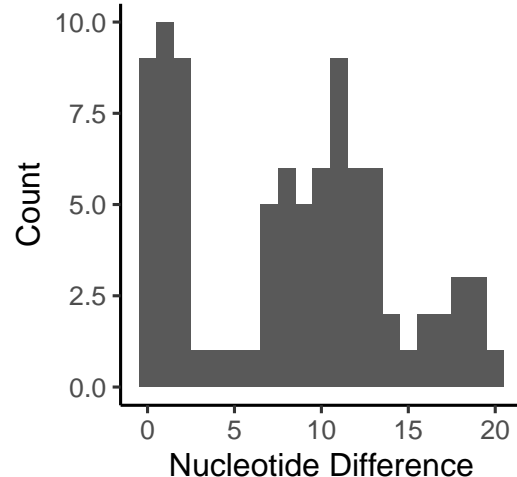
IGHV3-30*03

413 sequences assigned
22 (5.3%) exact matches, in which:
20 unique CDR3
4 unique J



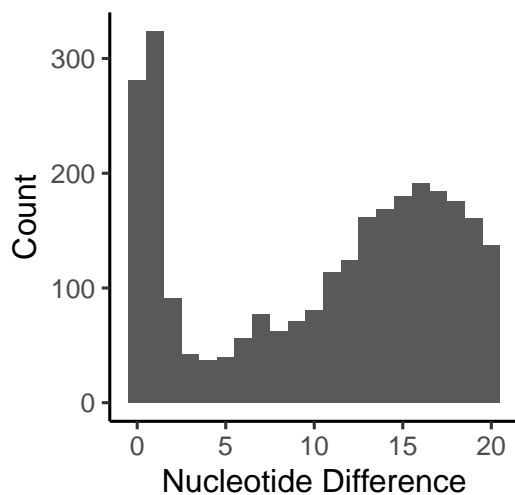
IGHV3-43*01

108 sequences assigned
9 (8.3%) exact matches, in which:
7 unique CDR3
2 unique J



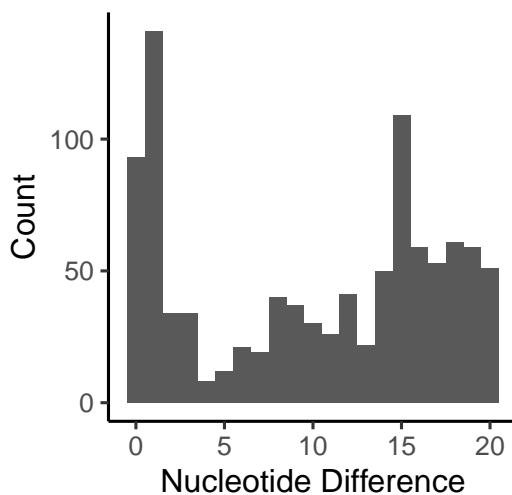
IGHV3-21*01_02

3237 sequences assigned
281 (8.7%) exact matches, in which:
226 unique CDR3
6 unique J



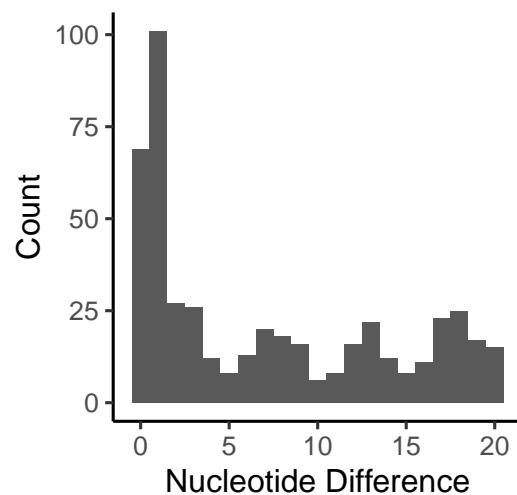
IGHV3-33*01

1464 sequences assigned
93 (6.4%) exact matches, in which:
74 unique CDR3
4 unique J



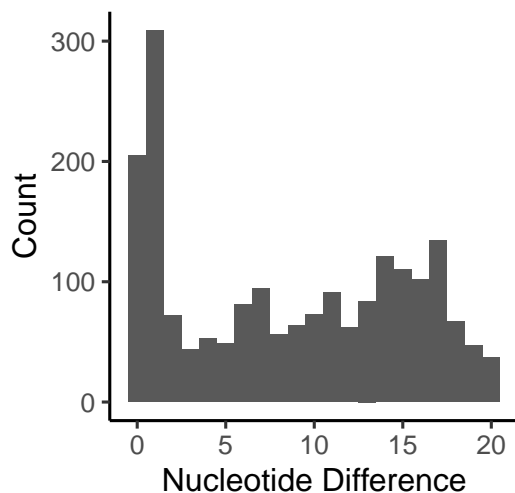
IGHV3-48*02

881 sequences assigned
69 (7.8%) exact matches, in which:
49 unique CDR3
5 unique J



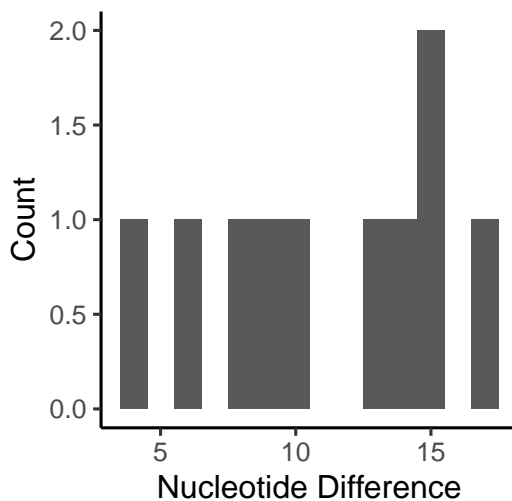
IGHV3-30-3*01

2306 sequences assigned
205 (8.9%) exact matches, in which:
157 unique CDR3
5 unique J



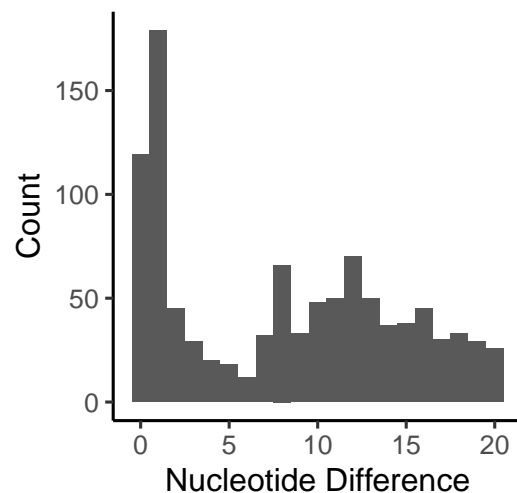
IGHV3-33*05

23 sequences assigned
No exact matches.



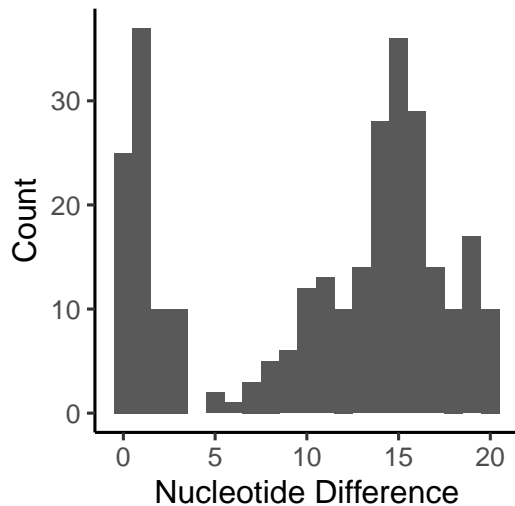
IGHV3-48*04

1251 sequences assigned
119 (9.5%) exact matches, in which:
80 unique CDR3
5 unique J



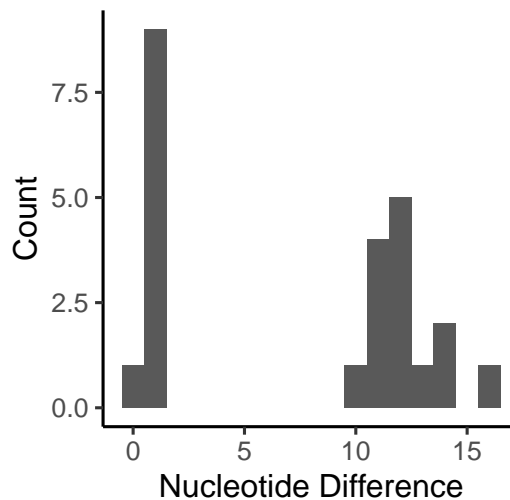
IGHV3-49*03_05

439 sequences assigned
25 (5.7%) exact matches, in which:
20 unique CDR3
4 unique J



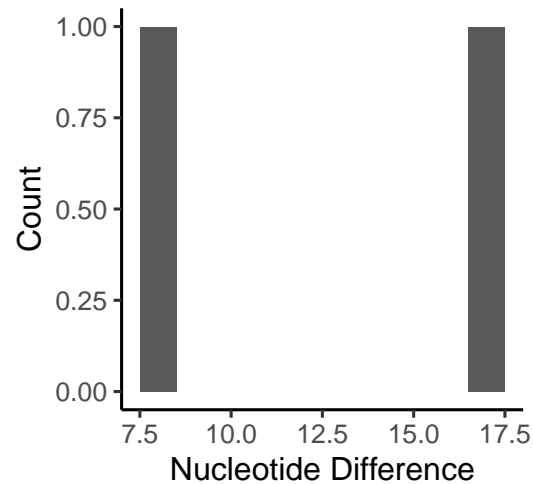
IGHV3-64*02_07

26 sequences assigned
1 (3.8%) exact matches, in which:
1 unique CDR3
1 unique J



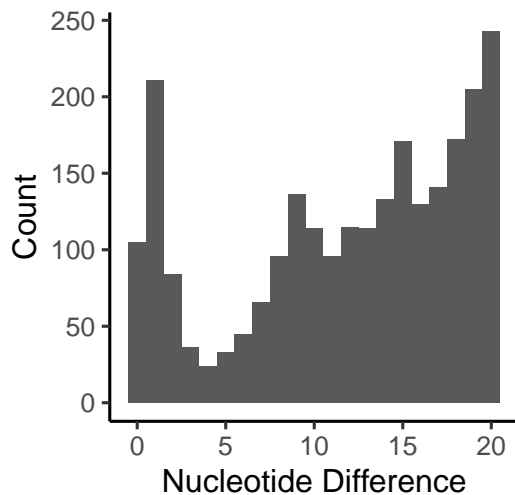
IGHV3-69-1*02

17 sequences assigned
No exact matches.



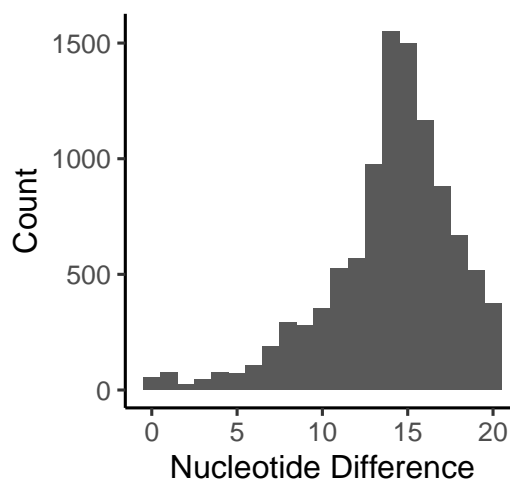
IGHV3-53*01_02

6891 sequences assigned
105 (1.5%) exact matches, in which:
81 unique CDR3
6 unique J



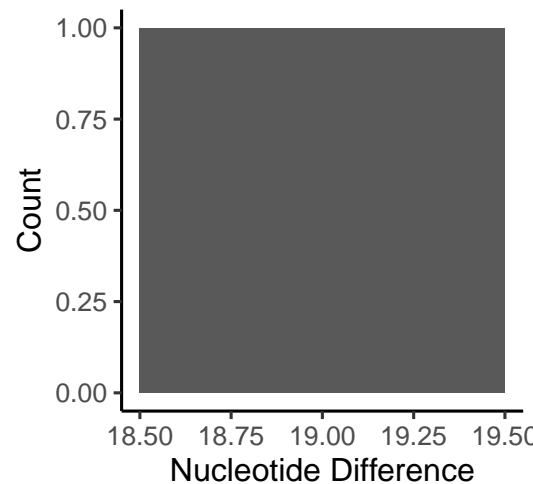
IGHV3-66*01

11473 sequences assigned
52 (0.5%) exact matches, in which:
41 unique CDR3
5 unique J



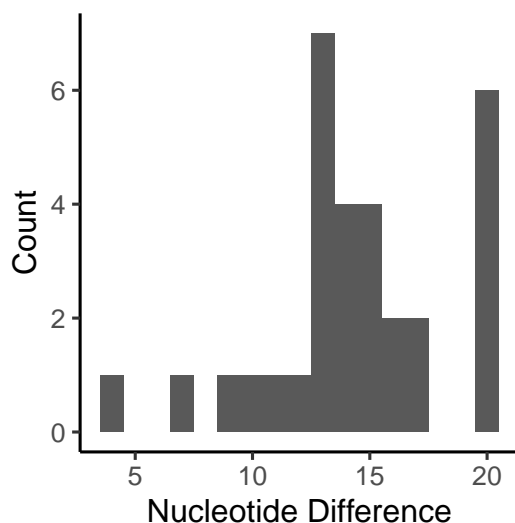
IGHV3-71*01_04

9 sequences assigned
No exact matches.



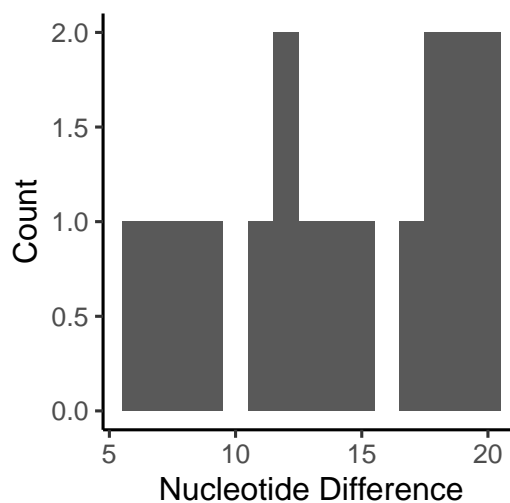
IGHV3-64*04

38 sequences assigned
No exact matches.



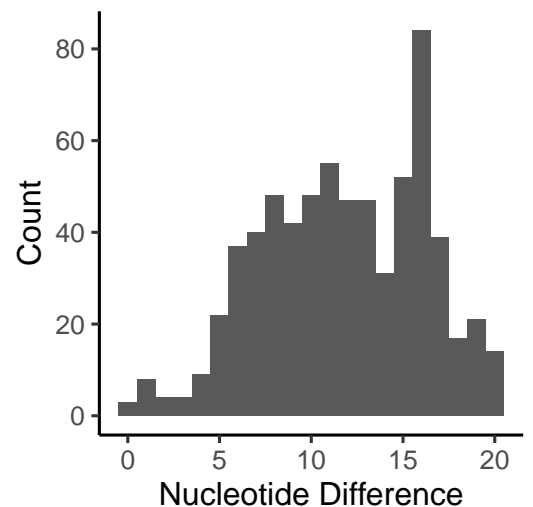
IGHV3-69-1*01

33 sequences assigned
No exact matches.



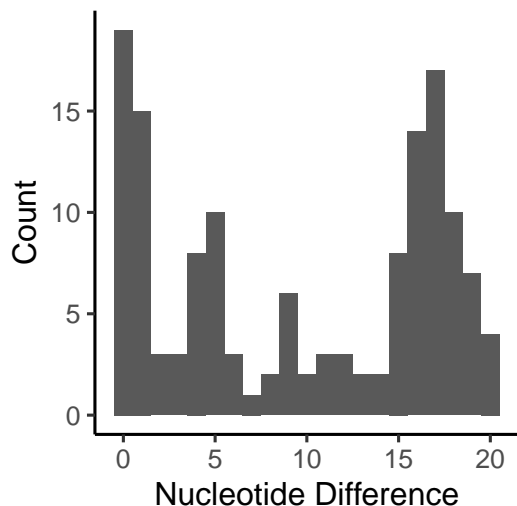
IGHV3-72*01

718 sequences assigned
3 (0.4%) exact matches, in which:
3 unique CDR3
2 unique J



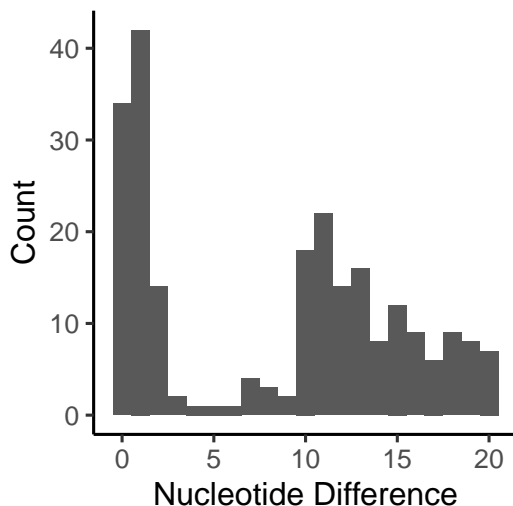
IGHV3-73*01_02

181 sequences assigned
19 (10.5%) exact matches, in which:
18 unique CDR3
2 unique J



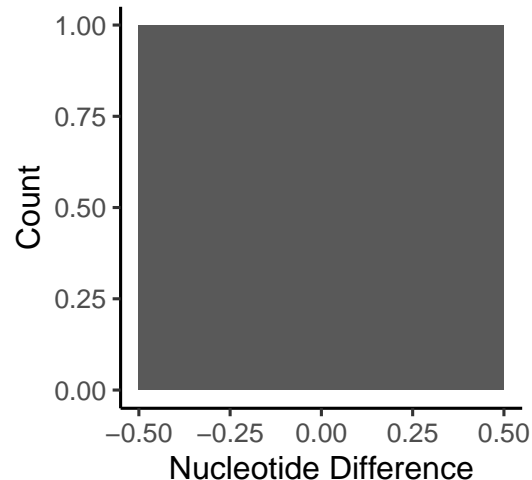
IGHV3-64D*09

293 sequences assigned
34 (11.6%) exact matches, in which:
26 unique CDR3
5 unique J



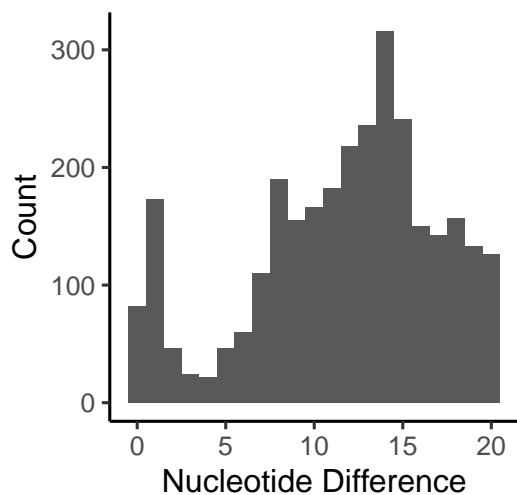
IGHV4-28*03

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



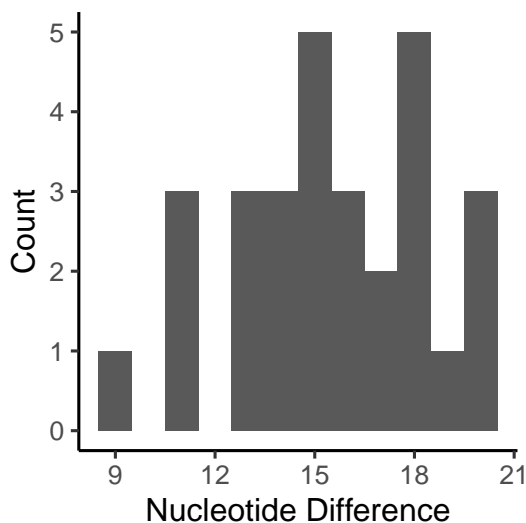
IGHV3-74*01_02

3458 sequences assigned
82 (2.4%) exact matches, in which:
65 unique CDR3
5 unique J



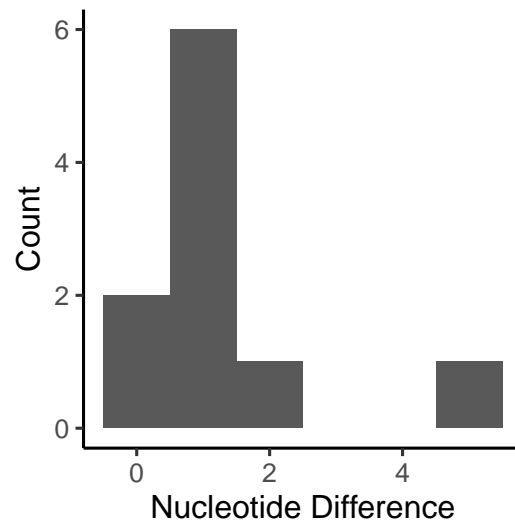
IGHV3-NL1*01

50 sequences assigned
No exact matches.



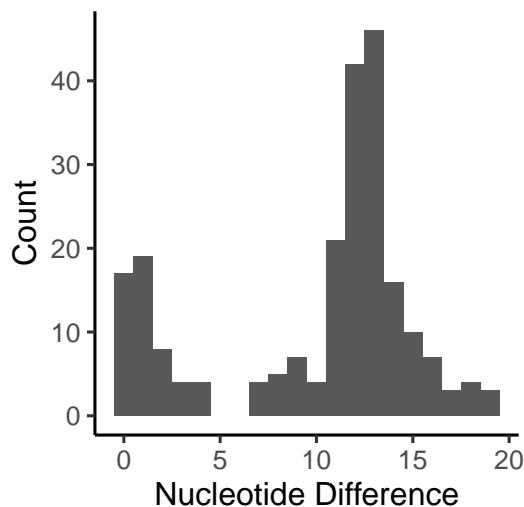
IGHV4-28*01_07

10 sequences assigned
2 (20%) exact matches, in which:
1 unique CDR3
1 unique J



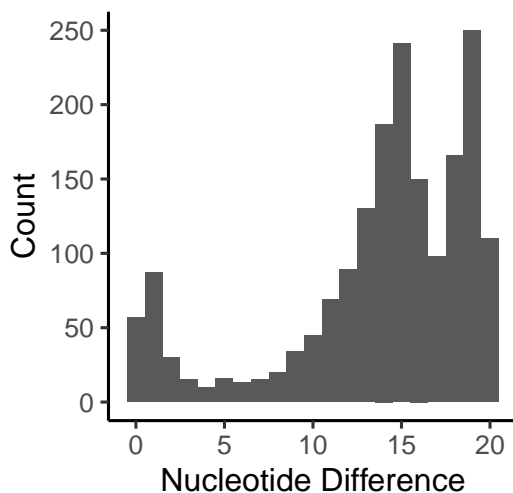
IGHV3-43D*03

245 sequences assigned
17 (6.9%) exact matches, in which:
14 unique CDR3
3 unique J



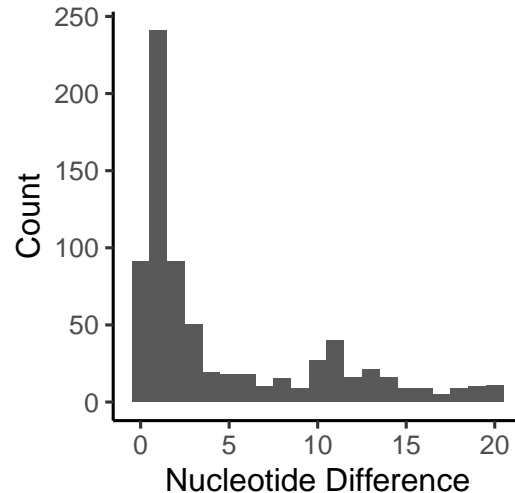
IGHV4-4*07

2118 sequences assigned
57 (2.7%) exact matches, in which:
40 unique CDR3
4 unique J



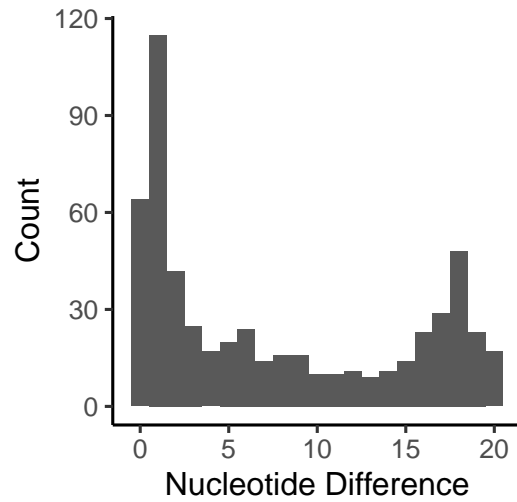
IGHV4-30-2*01

865 sequences assigned
91 (10.5%) exact matches, in which:
67 unique CDR3
5 unique J



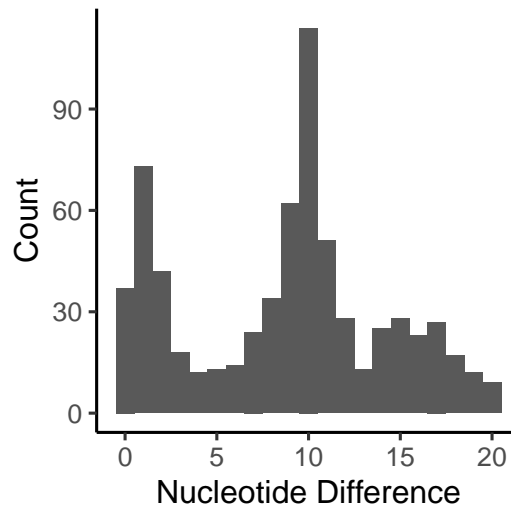
IGHV4-30-4*01

613 sequences assigned
64 (10.4%) exact matches, in which:
51 unique CDR3
5 unique J



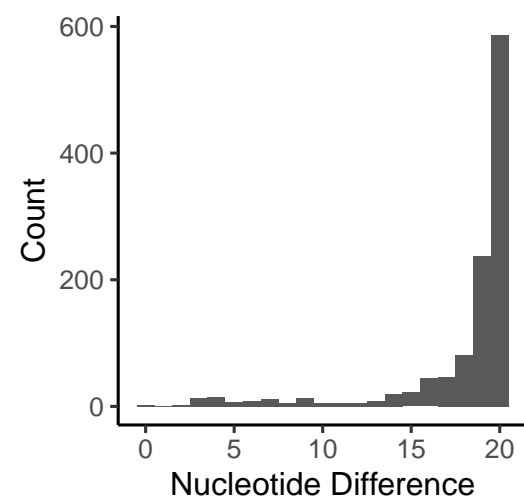
IGHV4-38-2*02

777 sequences assigned
37 (4.8%) exact matches, in which:
31 unique CDR3
6 unique J



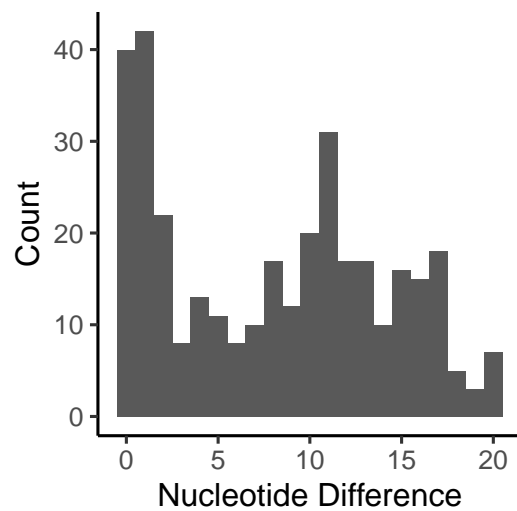
IGHV4-59*02

15604 sequences assigned
2 (0%) exact matches, in which:
2 unique CDR3
2 unique J



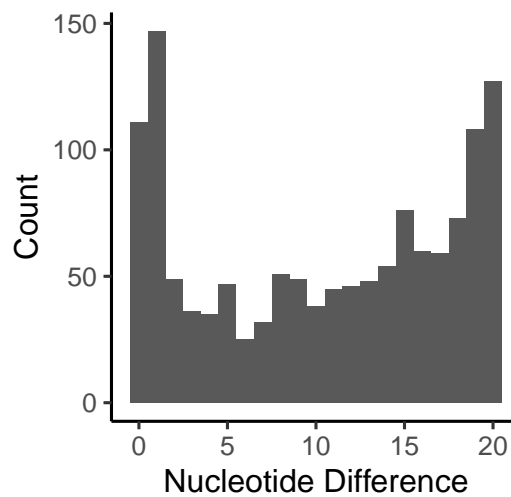
IGHV4-31*03_04

428 sequences assigned
40 (9.3%) exact matches, in which:
35 unique CDR3
6 unique J



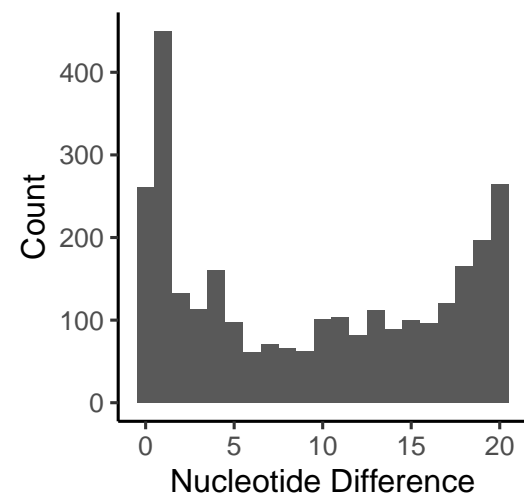
IGHV4-39*07

1995 sequences assigned
111 (5.6%) exact matches, in which:
89 unique CDR3
4 unique J



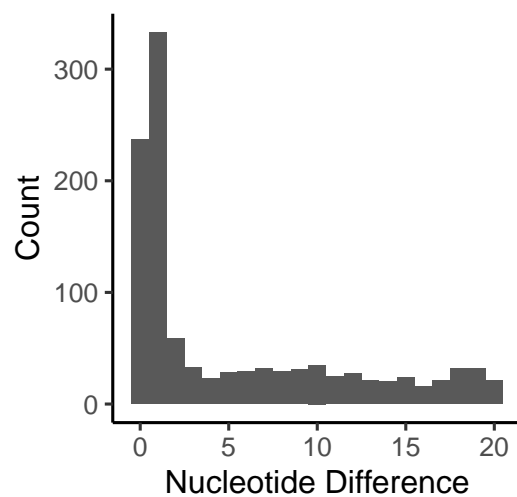
IGHV4-59*01_07

4564 sequences assigned
261 (5.7%) exact matches, in which:
194 unique CDR3
6 unique J



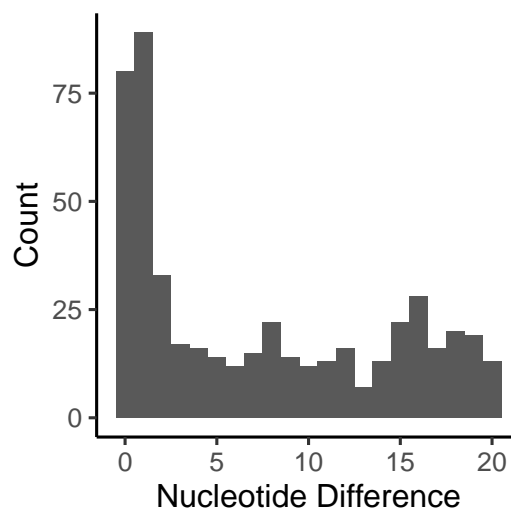
IGHV4-34*01_02

1318 sequences assigned
237 (18%) exact matches, in which:
166 unique CDR3
6 unique J



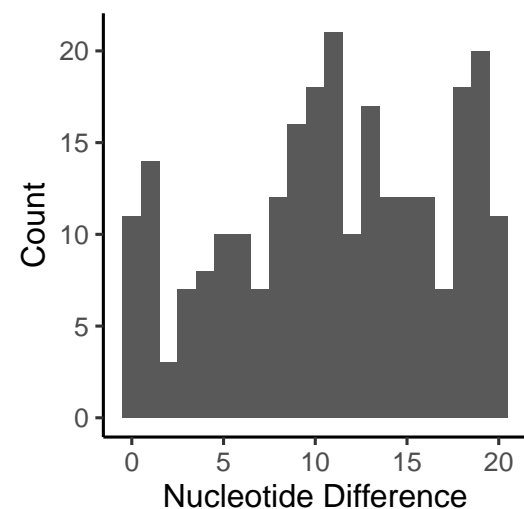
IGHV4-39*01_05

681 sequences assigned
80 (11.7%) exact matches, in which:
66 unique CDR3
5 unique J



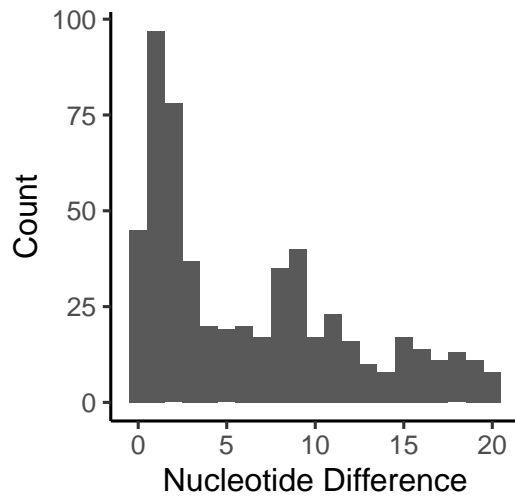
IGHV4-59*12

381 sequences assigned
11 (2.9%) exact matches, in which:
11 unique CDR3
3 unique J



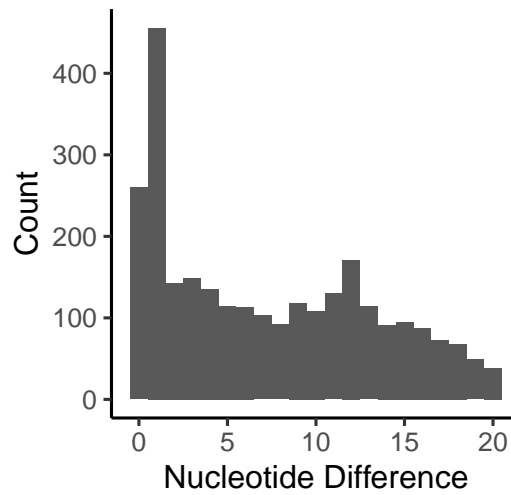
IGHV4-61*01

787 sequences assigned
45 (5.7%) exact matches, in which:
41 unique CDR3
4 unique J



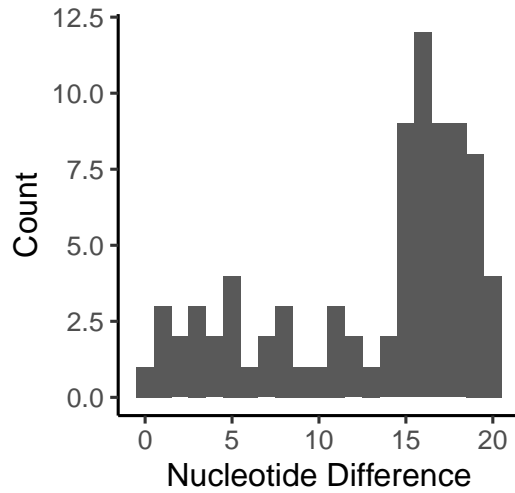
IGHV5-51*01_03

2950 sequences assigned
260 (8.8%) exact matches, in which:
193 unique CDR3
6 unique J



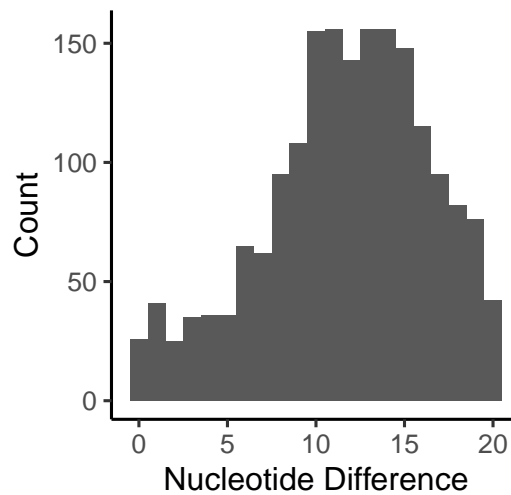
IGHV4-61*08

156 sequences assigned
1 (0.6%) exact matches, in which:
1 unique CDR3
1 unique J



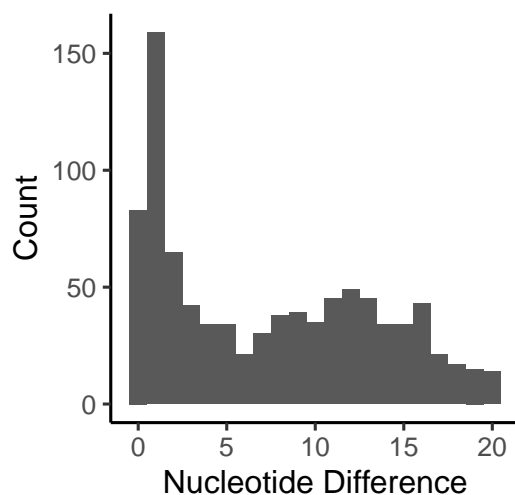
IGHV6-1*01_02

2132 sequences assigned
26 (1.2%) exact matches, in which:
22 unique CDR3
4 unique J



IGHV5-10-1*01_03

1159 sequences assigned
83 (7.2%) exact matches, in which:
63 unique CDR3
5 unique J





Novel sequence(s)IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV5-51*07_A128G are not listed in the genotype and will be ignored.