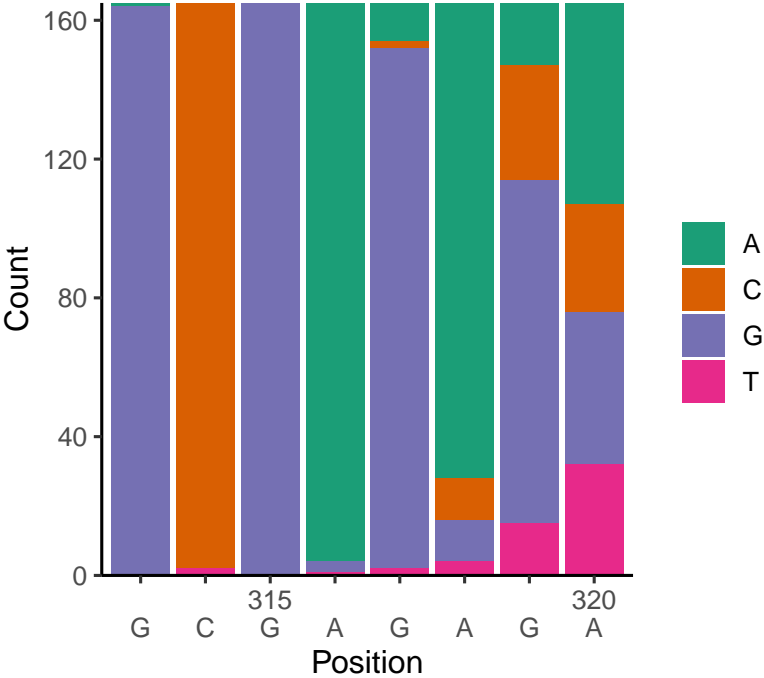
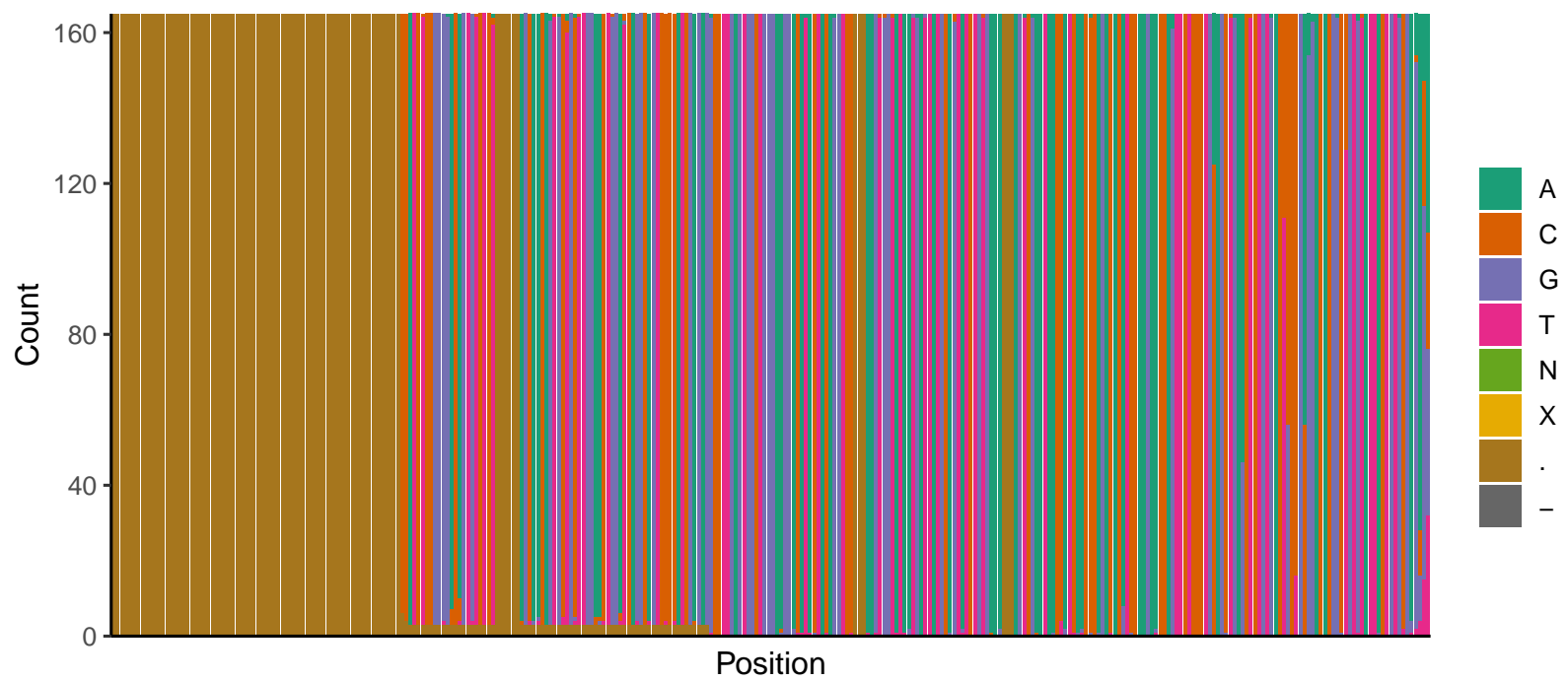


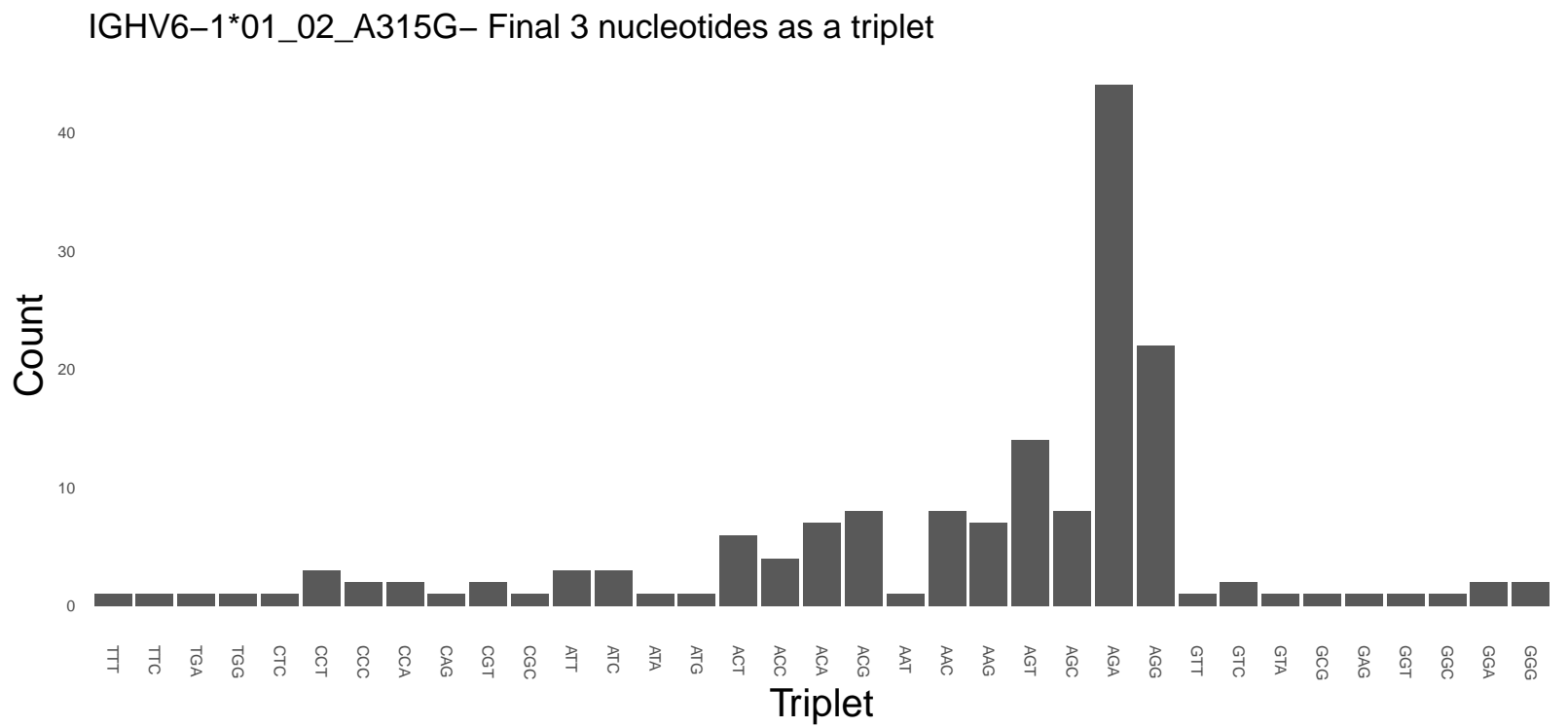
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

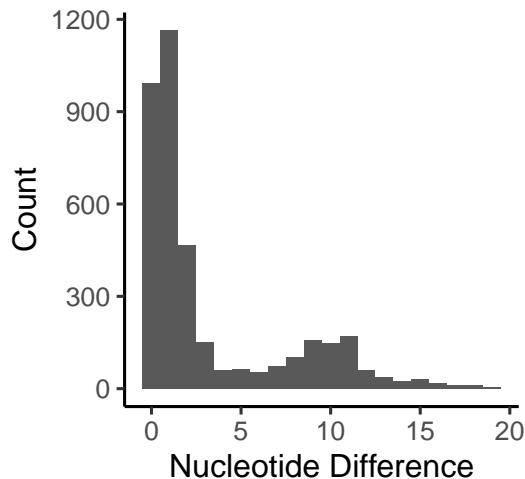


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



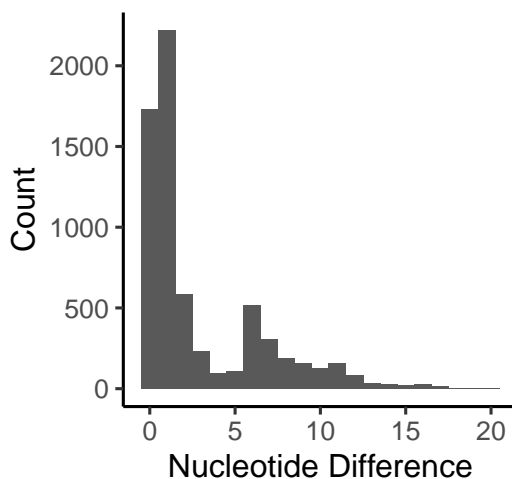
IGHV1-2*04

3806 sequences assigned
993 (26.1%) exact matches, in which:
820 unique CDR3
6 unique J



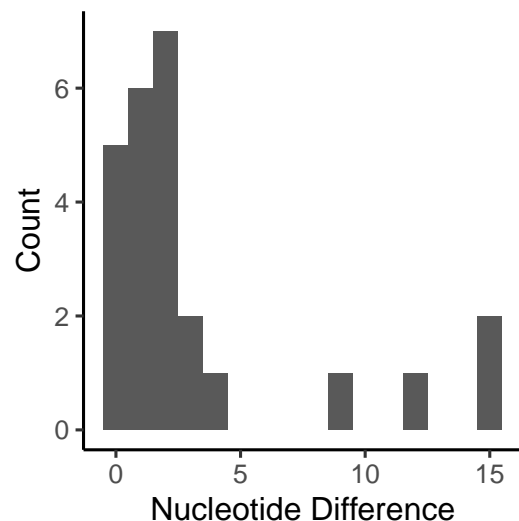
IGHV1-18*01

6649 sequences assigned
1731 (26%) exact matches, in which:
1382 unique CDR3
6 unique J



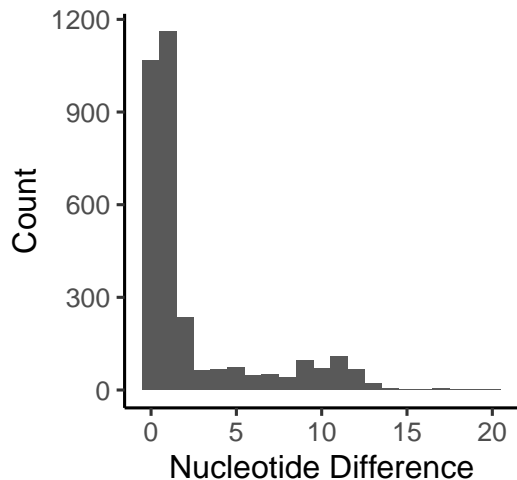
IGHV1-45*02

25 sequences assigned
5 (20%) exact matches, in which:
5 unique CDR3
3 unique J



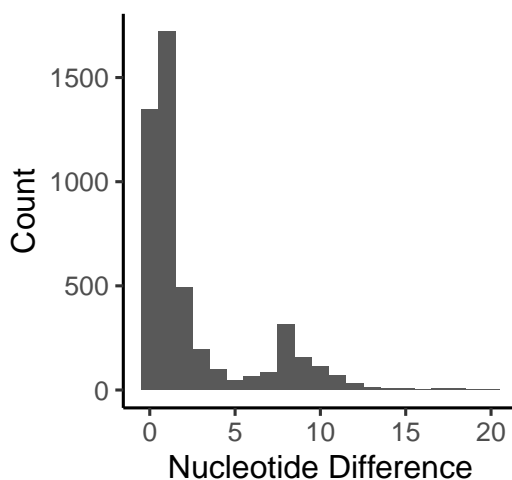
IGHV1-3*01_05

3182 sequences assigned
1067 (33.5%) exact matches, in which:
835 unique CDR3
6 unique J



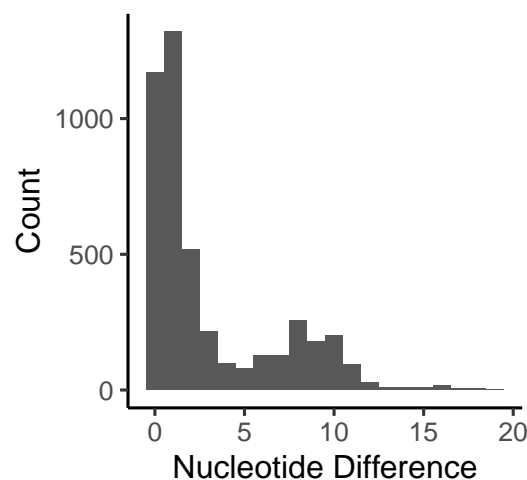
IGHV1-18*04

4782 sequences assigned
1347 (28.2%) exact matches, in which:
1102 unique CDR3
6 unique J



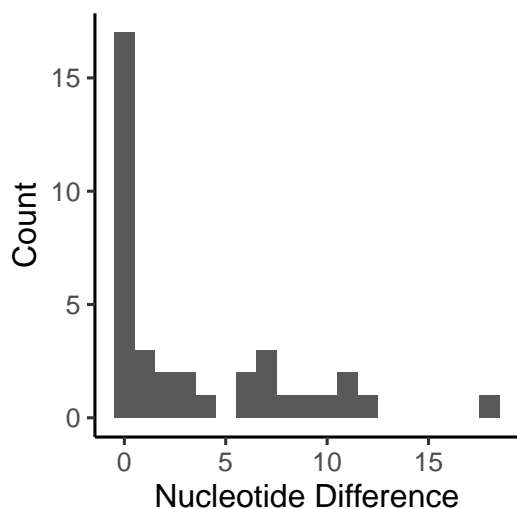
IGHV1-46*01

4478 sequences assigned
1168 (26.1%) exact matches, in which:
968 unique CDR3
6 unique J



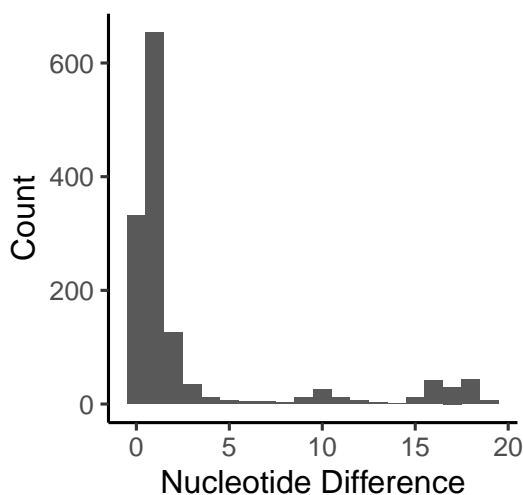
IGHV1-8*01

38 sequences assigned
17 (44.7%) exact matches, in which:
17 unique CDR3
4 unique J



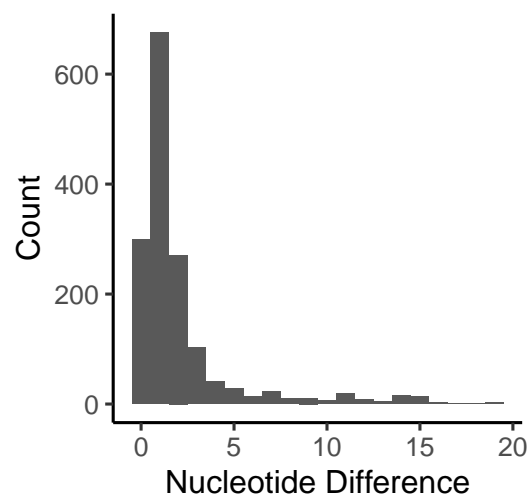
IGHV1-24*01

1366 sequences assigned
331 (24.2%) exact matches, in which:
219 unique CDR3
6 unique J



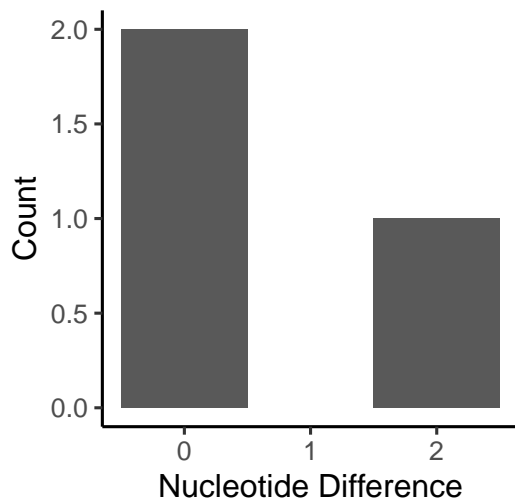
IGHV1-58*01_03

1551 sequences assigned
300 (19.3%) exact matches, in which:
191 unique CDR3
5 unique J



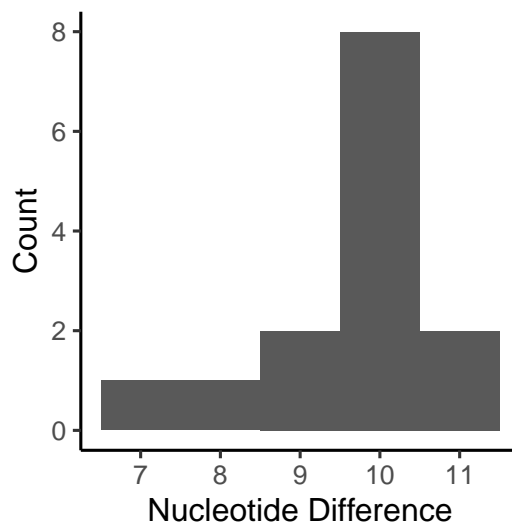
IGHV1-68*01

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



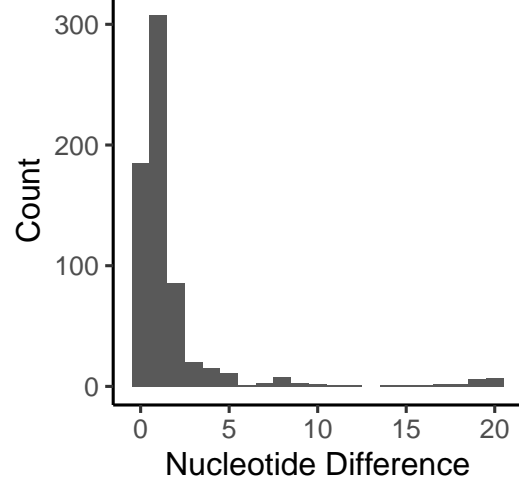
IGHV1-NL1*01

14 sequences assigned
No exact matches.



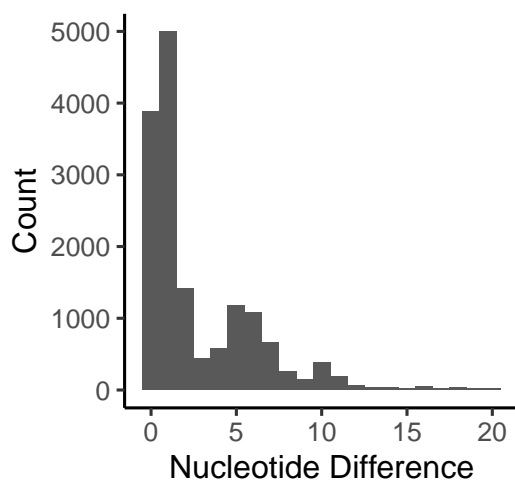
IGHV2-70*01

672 sequences assigned
185 (27.5%) exact matches, in which:
130 unique CDR3
5 unique J



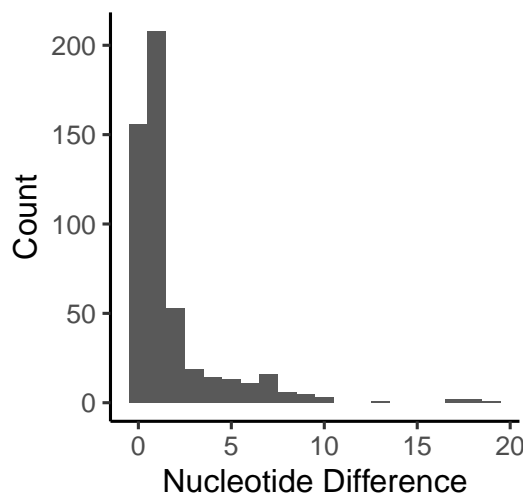
IGHV1-69*01_12_13

15611 sequences assigned
3888 (24.9%) exact matches, in which:
3135 unique CDR3
6 unique J



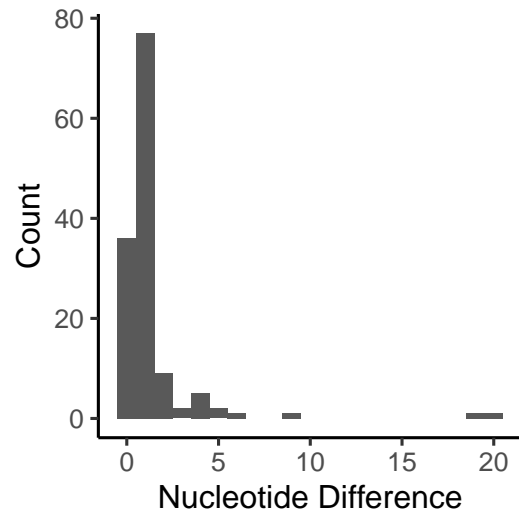
IGHV2-5*02

531 sequences assigned
156 (29.4%) exact matches, in which:
101 unique CDR3
5 unique J



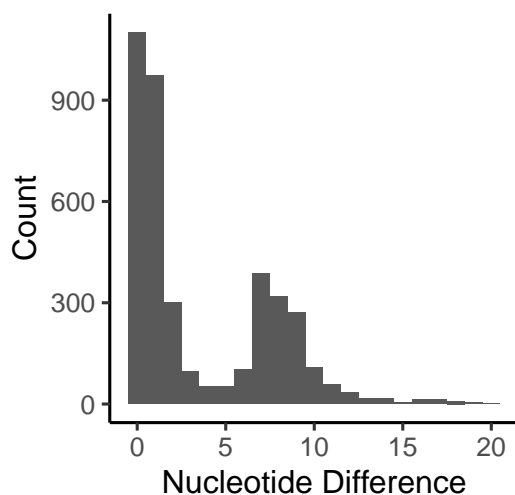
IGHV2-70*04

135 sequences assigned
36 (26.7%) exact matches, in which:
25 unique CDR3
4 unique J



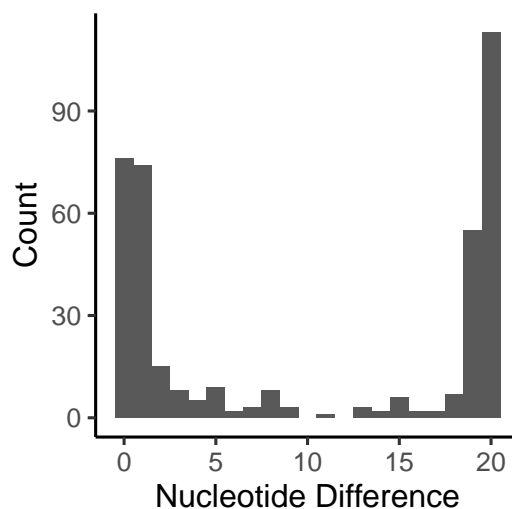
IGHV1-69*06_14

3939 sequences assigned
1101 (28%) exact matches, in which:
961 unique CDR3
6 unique J



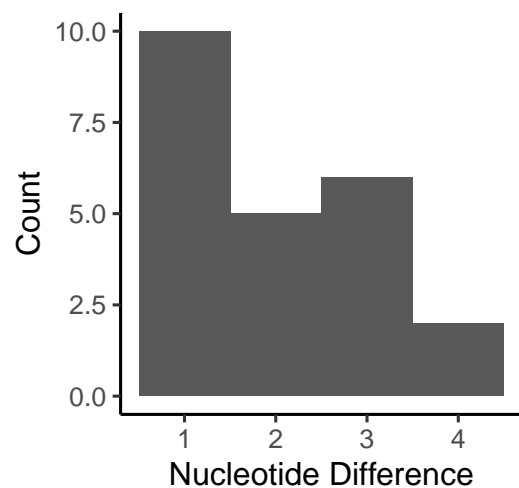
IGHV2-26*01

435 sequences assigned
76 (17.5%) exact matches, in which:
57 unique CDR3
5 unique J



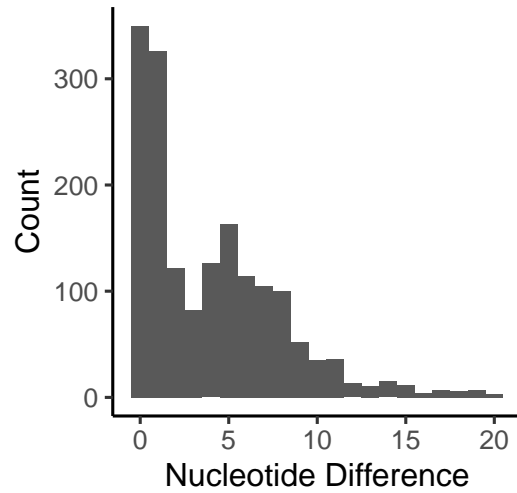
IGHV2-70*12

23 sequences assigned
No exact matches.



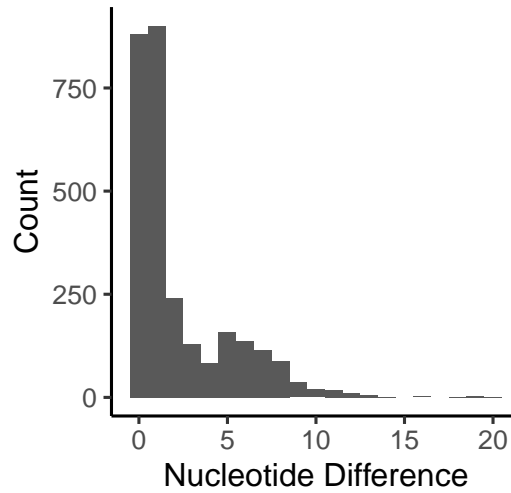
IGHV3-7*01

1708 sequences assigned
350 (20.5%) exact matches, in which:
310 unique CDR3
6 unique J



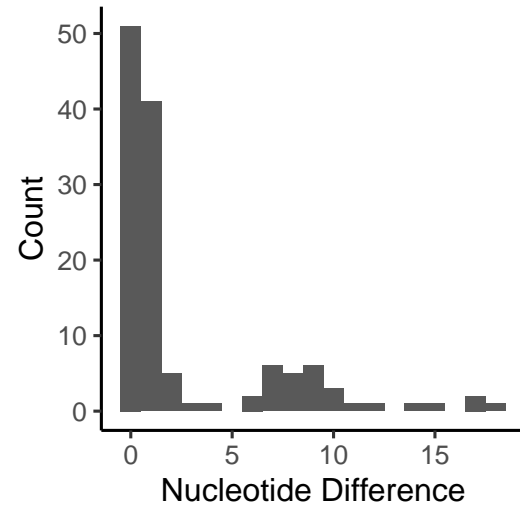
IGHV3-11*06

2830 sequences assigned
880 (31.1%) exact matches, in which:
599 unique CDR3
5 unique J



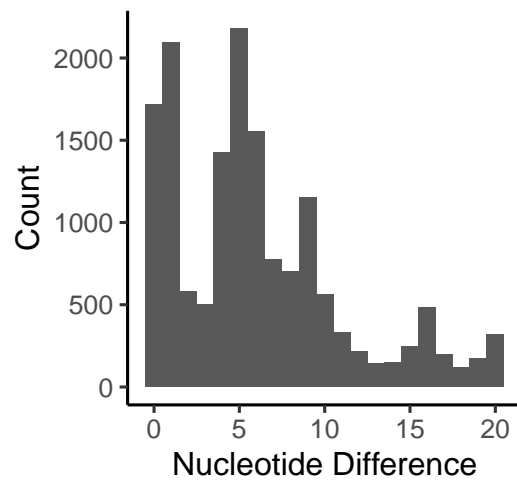
IGHV3-20*01_02

128 sequences assigned
51 (39.8%) exact matches, in which:
28 unique CDR3
4 unique J



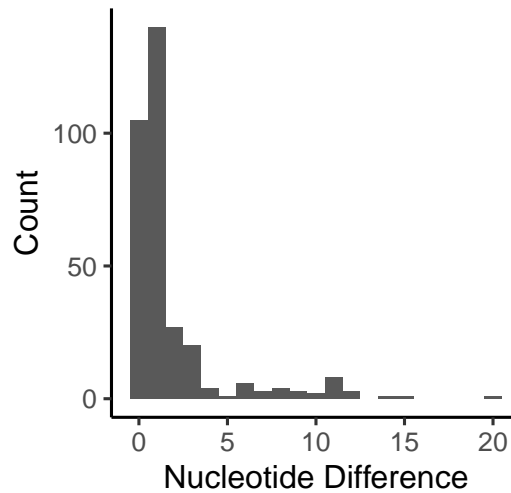
IGHV3-7*03

17031 sequences assigned
1716 (10.1%) exact matches, in which:
1074 unique CDR3
6 unique J



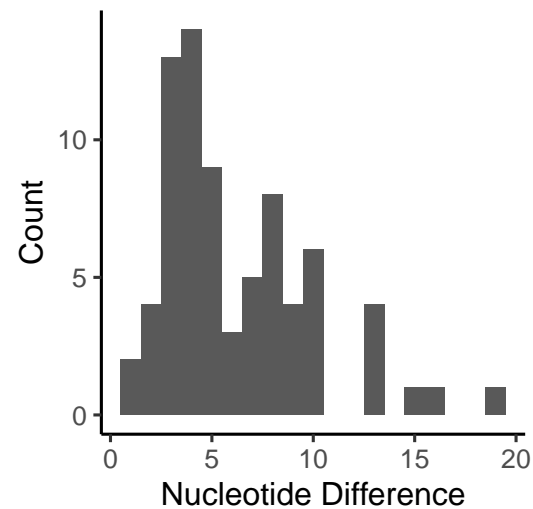
IGHV3-13*05

378 sequences assigned
105 (27.8%) exact matches, in which:
56 unique CDR3
4 unique J



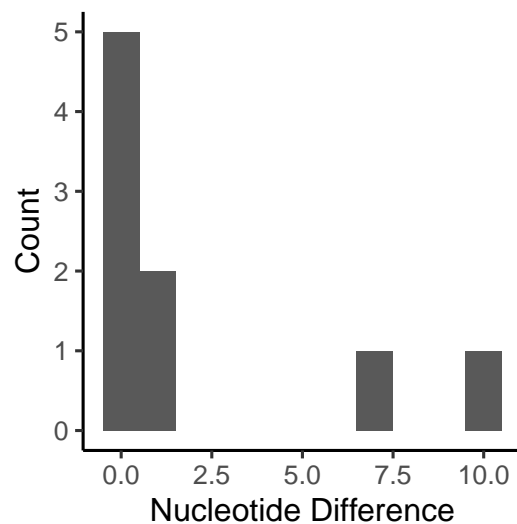
IGHV3-20*03_04

75 sequences assigned
No exact matches.



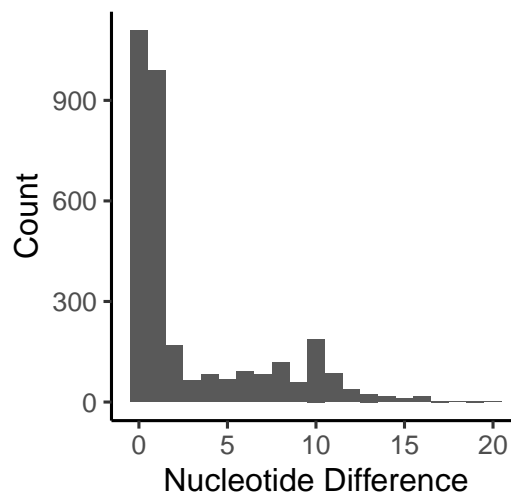
IGHV3-9*01

9 sequences assigned
5 (55.6%) exact matches, in which:
5 unique CDR3
3 unique J



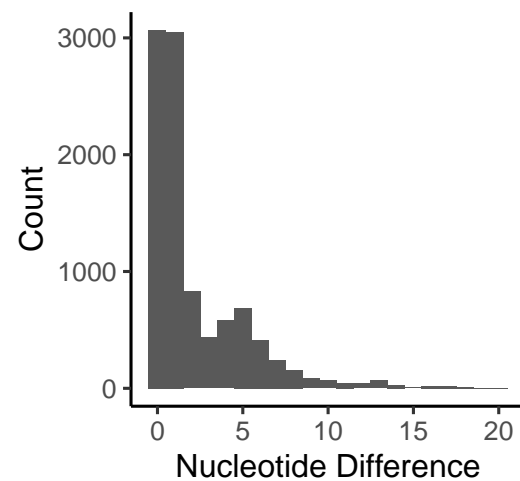
IGHV3-15*01_02

3330 sequences assigned
1109 (33.3%) exact matches, in which:
637 unique CDR3
6 unique J



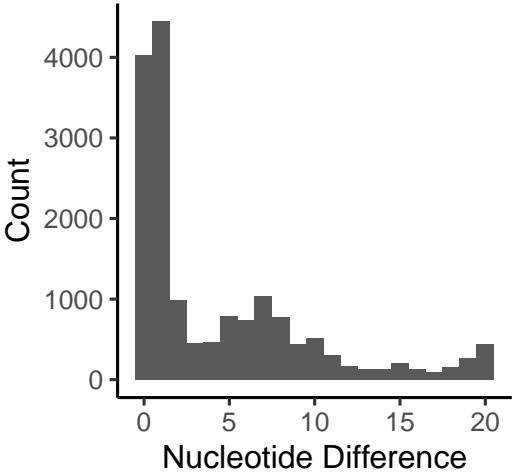
IGHV3-21*01_02

9899 sequences assigned
3067 (31%) exact matches, in which:
1896 unique CDR3
6 unique J



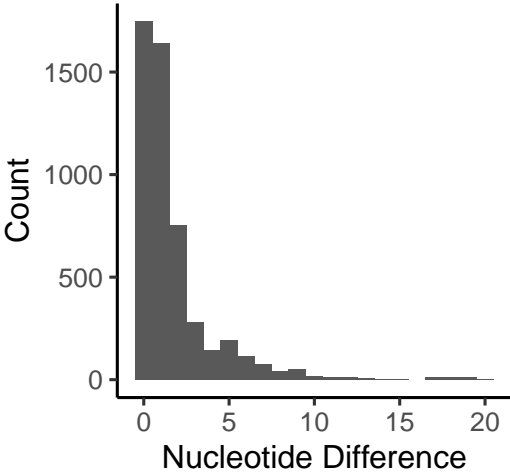
IGHV3-23*01_04

21458 sequences assigned
4026 (18.8%) exact matches, in which:
2247 unique CDR3
6 unique J



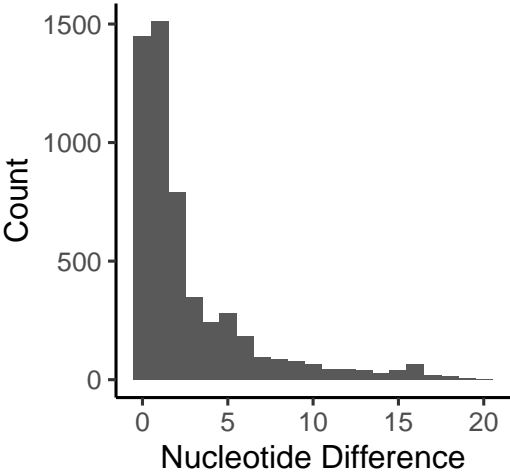
IGHV3-30*18

5212 sequences assigned
1747 (33.5%) exact matches, in which:
1001 unique CDR3
6 unique J



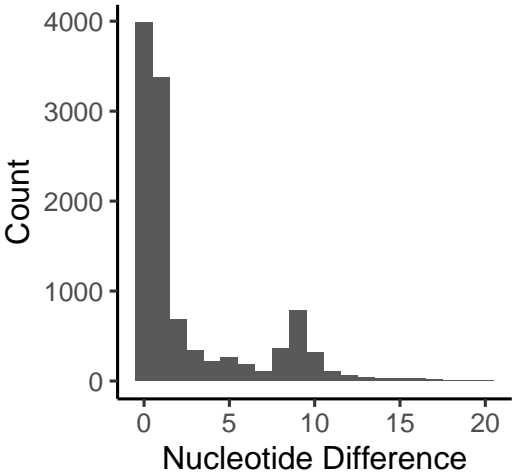
IGHV3-33*08

5624 sequences assigned
1448 (25.7%) exact matches, in which:
928 unique CDR3
6 unique J



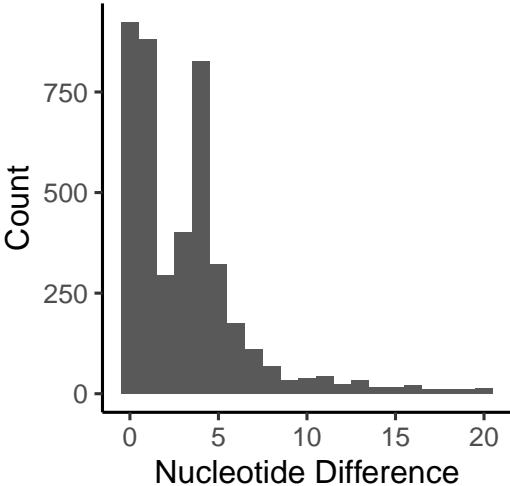
IGHV3-30-3*01

10970 sequences assigned
3983 (36.3%) exact matches, in which:
2515 unique CDR3
6 unique J



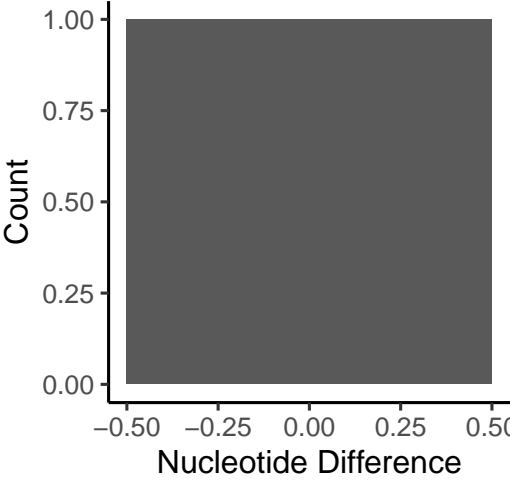
IGHV3-33*01

6729 sequences assigned
924 (13.7%) exact matches, in which:
626 unique CDR3
6 unique J



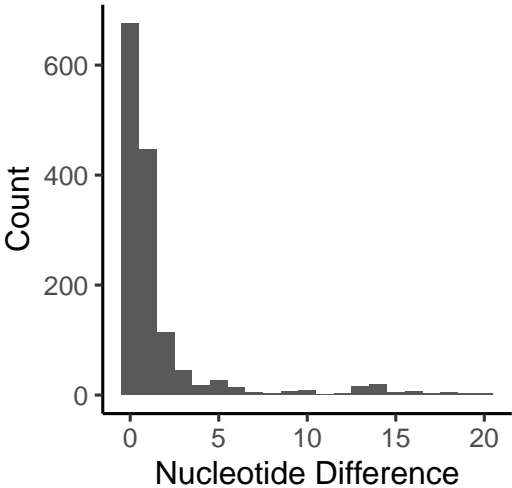
IGHV3-35*01

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



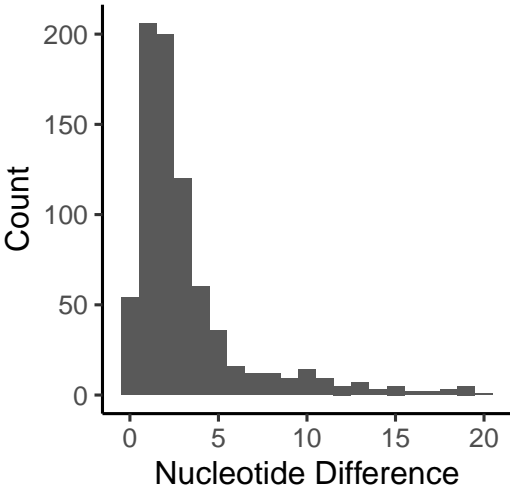
IGHV3-30*03

1463 sequences assigned
676 (46.2%) exact matches, in which:
583 unique CDR3
6 unique J



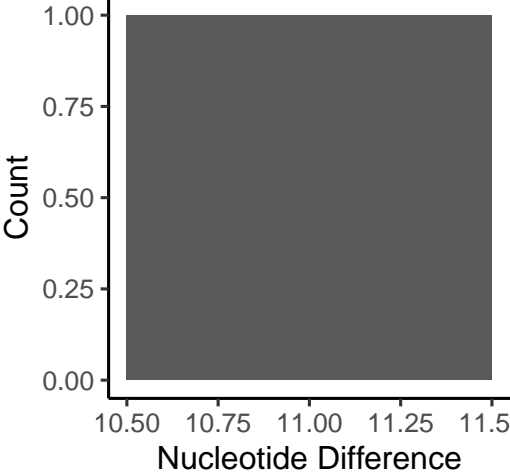
IGHV3-33*06

806 sequences assigned
54 (6.7%) exact matches, in which:
52 unique CDR3
4 unique J



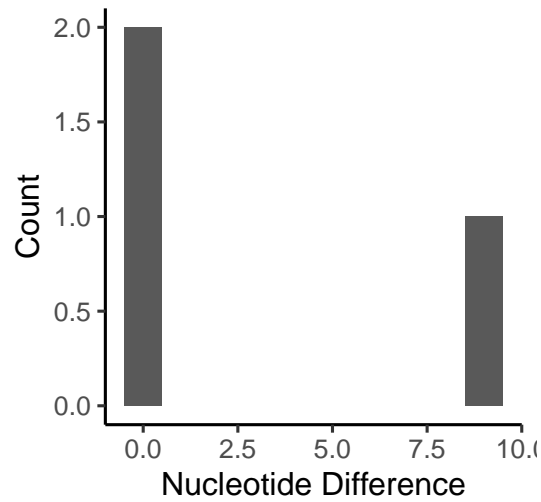
IGHV3-43*01

1 sequences assigned
No exact matches.



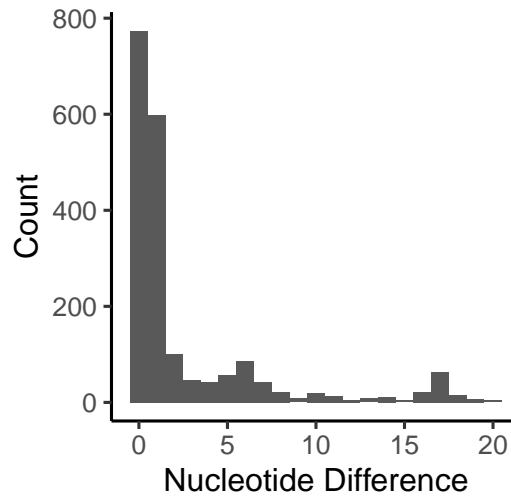
IGHV3-47*02

3 sequences assigned
2 (66.7%) exact matches, in which:
1 unique CDR3
1 unique J



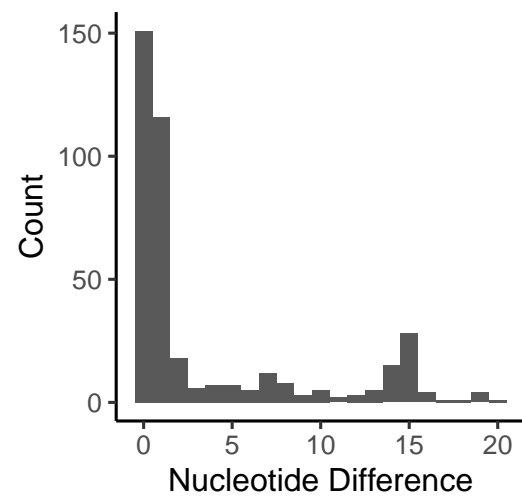
IGHV3-48*03

2240 sequences assigned
774 (34.6%) exact matches, in which:
472 unique CDR3
6 unique J



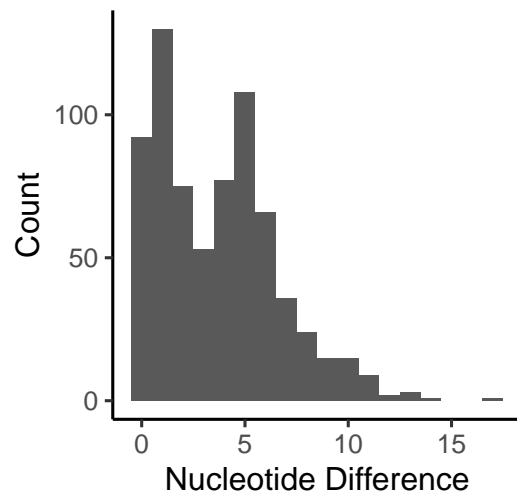
IGHV3-49*03_05

403 sequences assigned
151 (37.5%) exact matches, in which:
103 unique CDR3
5 unique J



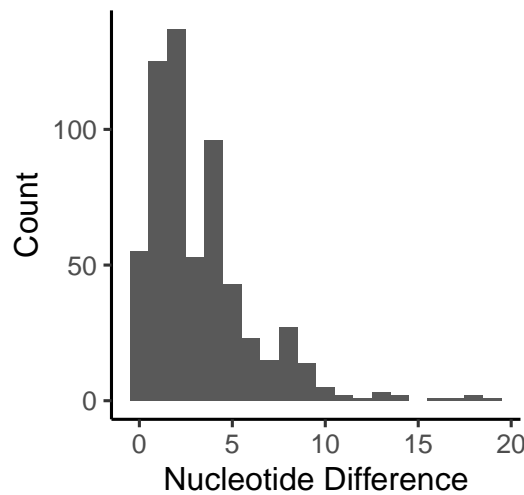
IGHV3-48*01

708 sequences assigned
92 (13%) exact matches, in which:
91 unique CDR3
5 unique J



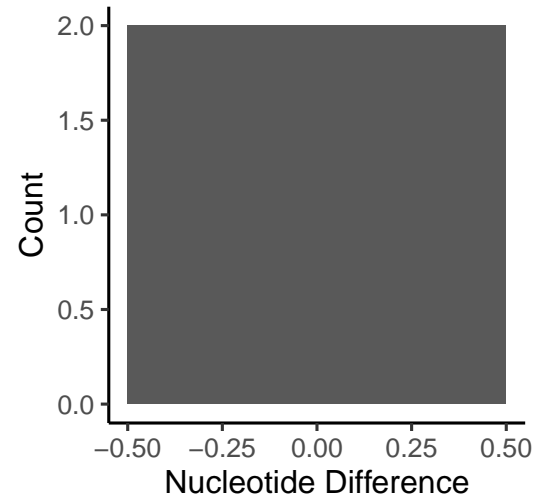
IGHV3-48*04

611 sequences assigned
55 (9%) exact matches, in which:
54 unique CDR3
6 unique J



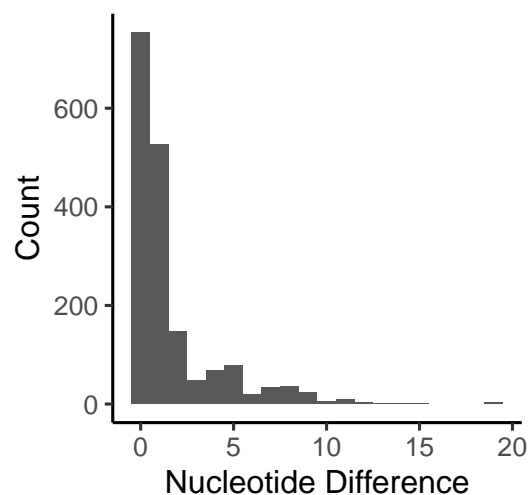
IGHV3-52*01_03

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
2 unique J



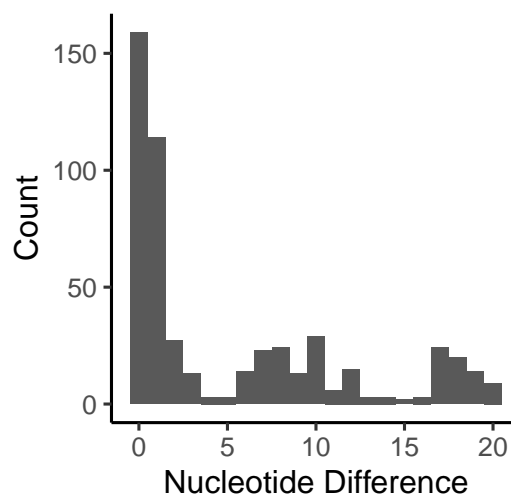
IGHV3-48*02

1760 sequences assigned
754 (42.8%) exact matches, in which:
475 unique CDR3
6 unique J



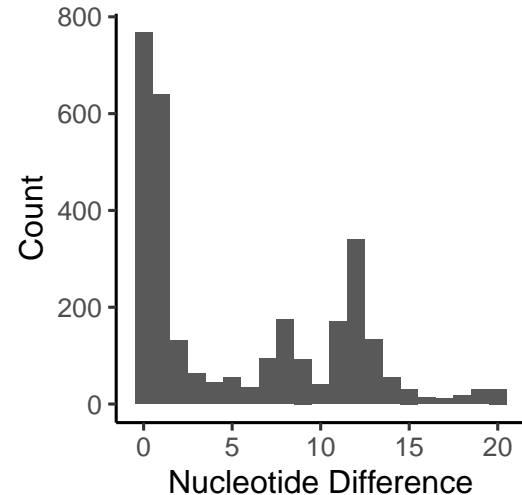
IGHV3-49*04

538 sequences assigned
159 (29.6%) exact matches, in which:
98 unique CDR3
6 unique J



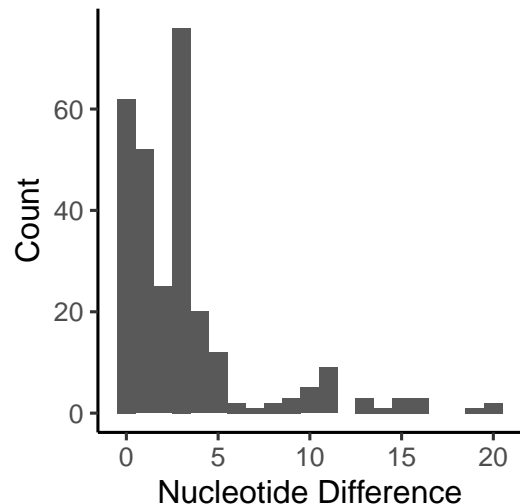
IGHV3-53*01_02

5549 sequences assigned
768 (13.8%) exact matches, in which:
526 unique CDR3
6 unique J



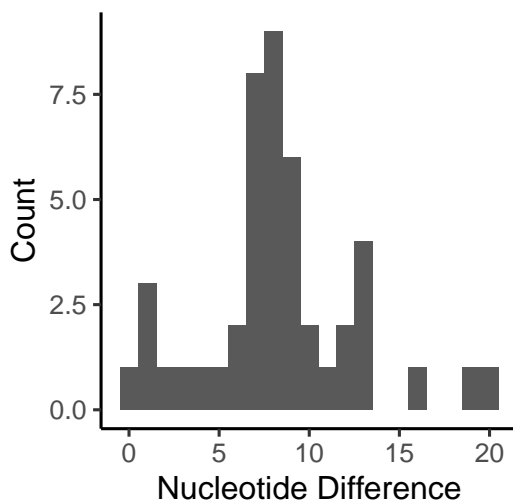
IGHV3-64*04

285 sequences assigned
62 (21.8%) exact matches, in which:
60 unique CDR3
6 unique J



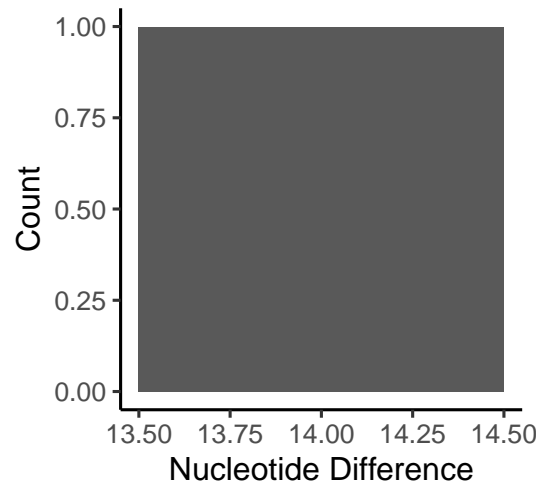
IGHV3-66*02

56 sequences assigned
1 (1.8%) exact matches, in which:
1 unique CDR3
1 unique J



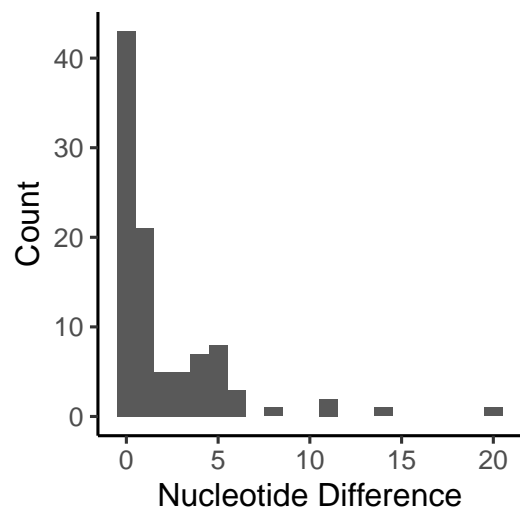
IGHV3-71*03

1 sequences assigned
No exact matches.



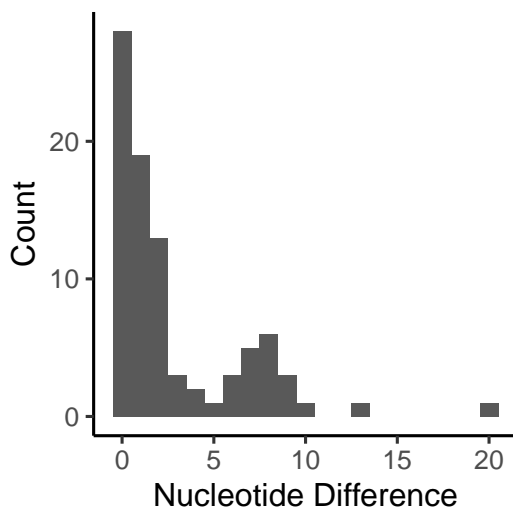
IGHV3-64*02_07

98 sequences assigned
43 (43.9%) exact matches, in which:
25 unique CDR3
3 unique J



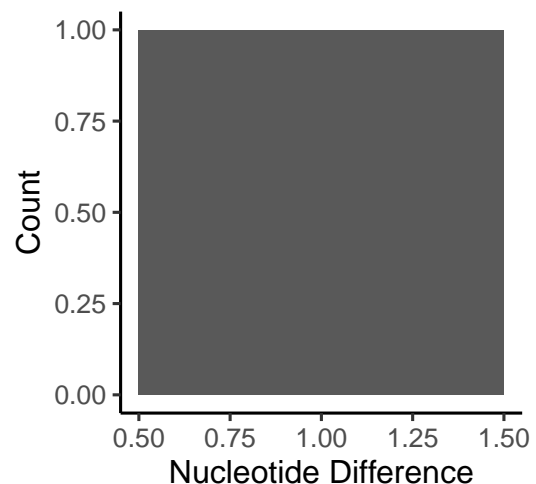
IGHV3-66*03

86 sequences assigned
28 (32.6%) exact matches, in which:
21 unique CDR3
4 unique J



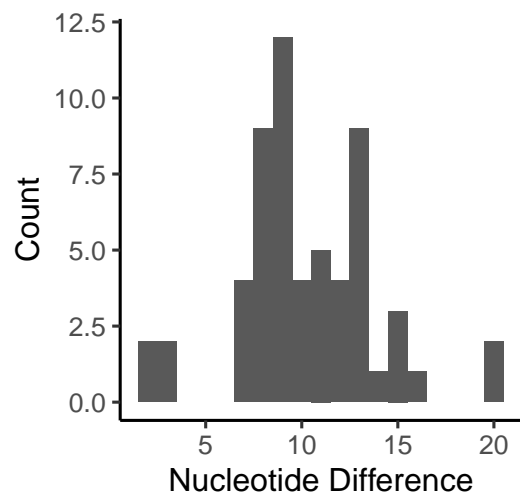
IGHV3-71*01_04

1 sequences assigned
No exact matches.



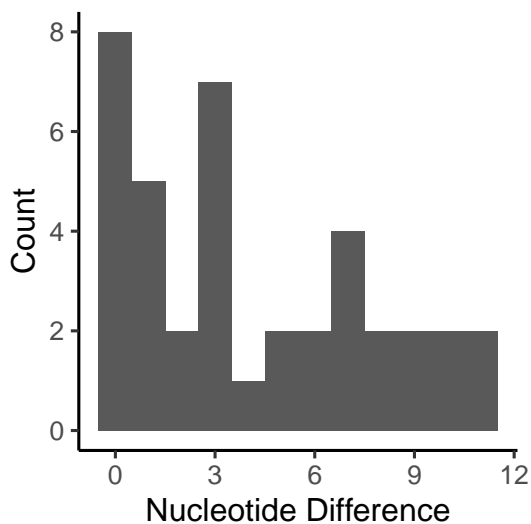
IGHV3-66*01

74 sequences assigned
No exact matches.



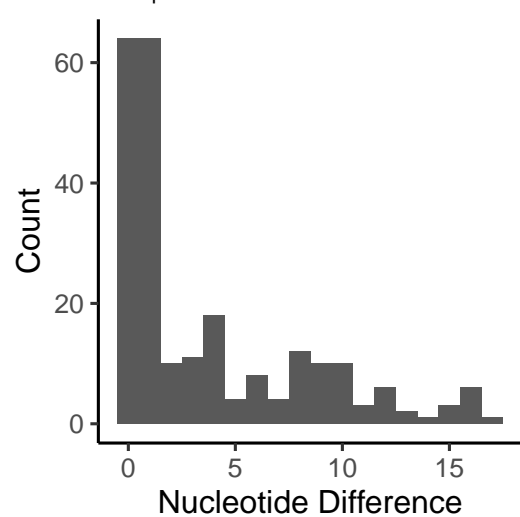
IGHV3-69-1*01

108 sequences assigned
8 (7.4%) exact matches, in which:
8 unique CDR3
4 unique J



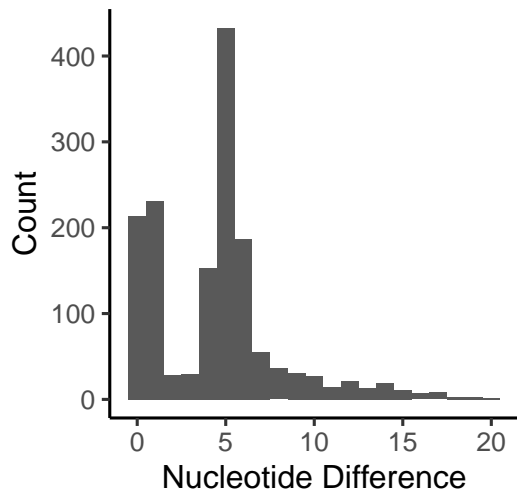
IGHV3-72*01

507 sequences assigned
64 (12.6%) exact matches, in which:
38 unique CDR3
5 unique J



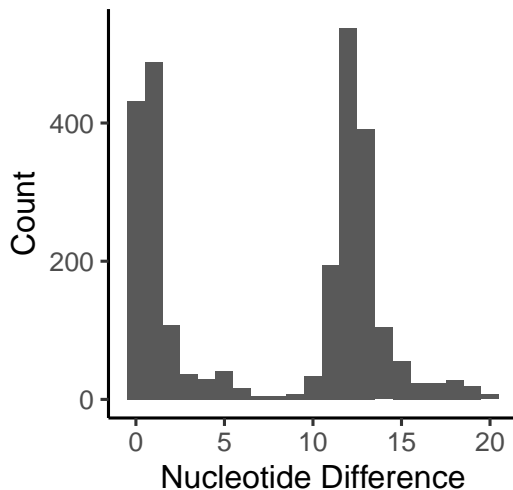
IGHV3-73*01_02

1529 sequences assigned
214 (14%) exact matches, in which:
125 unique CDR3
5 unique J



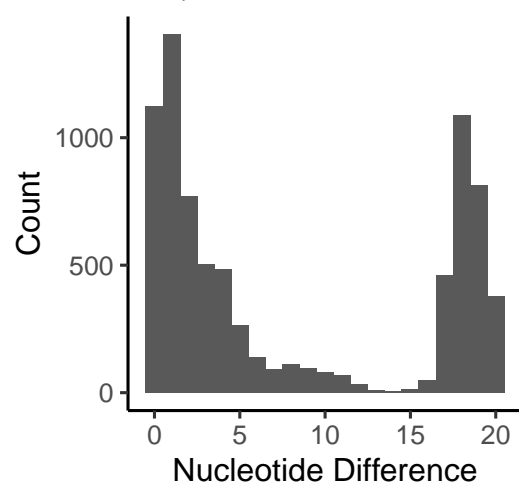
IGHV3-64D*06

2610 sequences assigned
432 (16.6%) exact matches, in which:
224 unique CDR3
6 unique J



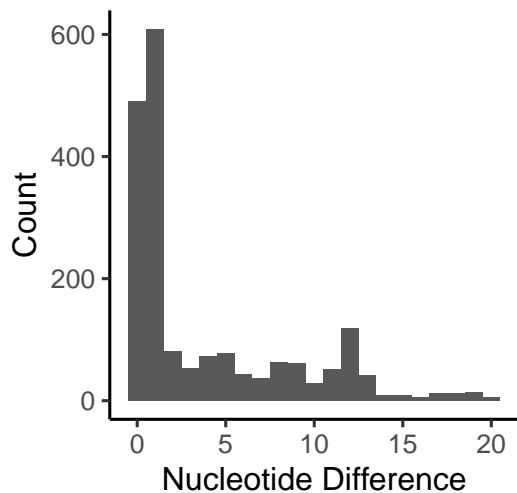
IGHV4-4*02_03

8899 sequences assigned
1125 (12.6%) exact matches, in which:
779 unique CDR3
6 unique J



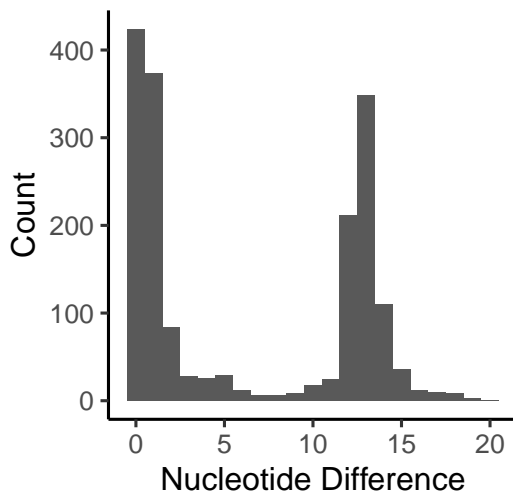
IGHV3-74*01_02

1909 sequences assigned
491 (25.7%) exact matches, in which:
271 unique CDR3
6 unique J



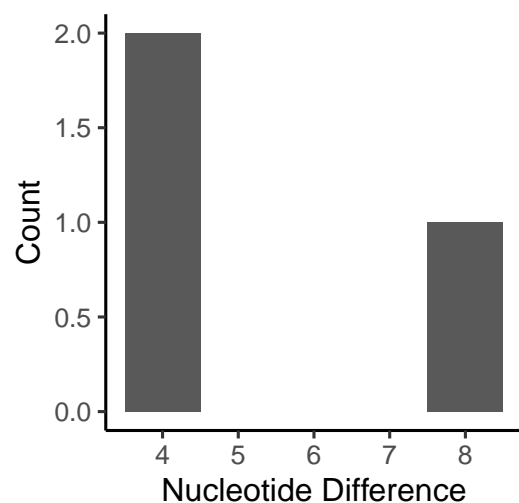
IGHV3-64D*09

1791 sequences assigned
424 (23.7%) exact matches, in which:
210 unique CDR3
6 unique J



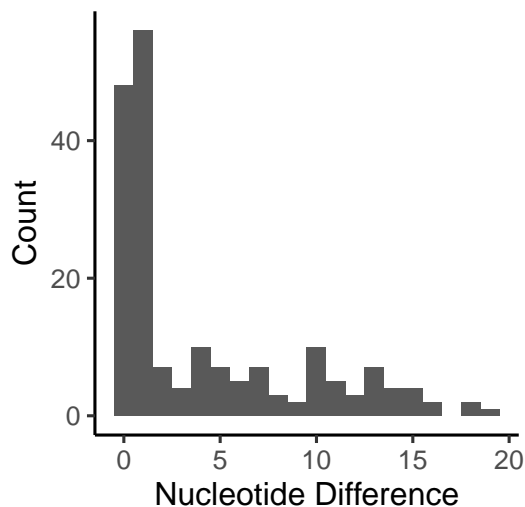
IGHV4-28*03

4 sequences assigned
No exact matches.



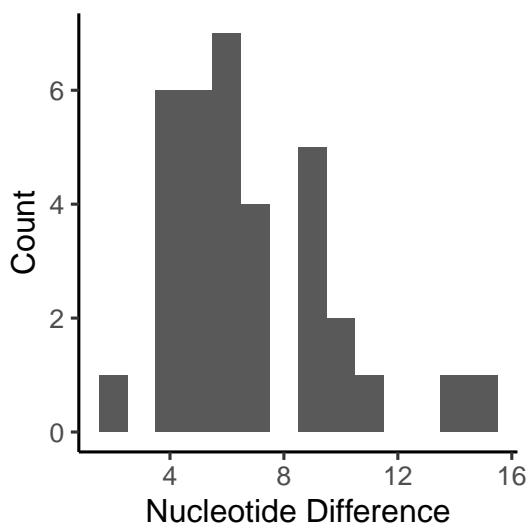
IGHV3-43D*04

187 sequences assigned
48 (25.7%) exact matches, in which:
27 unique CDR3
4 unique J



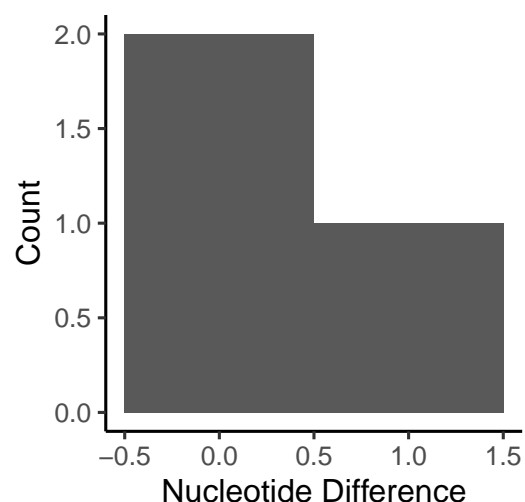
IGHV3-NL1*01

39 sequences assigned
No exact matches.



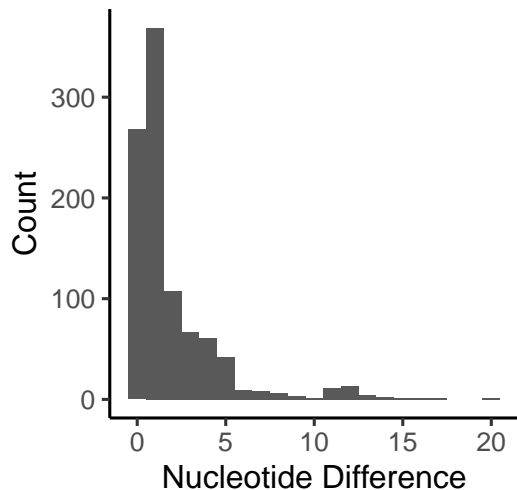
IGHV4-28*01_07

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



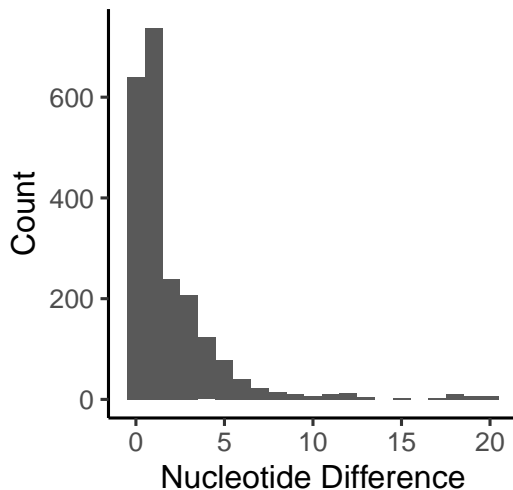
IGHV4-30-2*01

976 sequences assigned
268 (27.5%) exact matches, in which:
145 unique CDR3
5 unique J



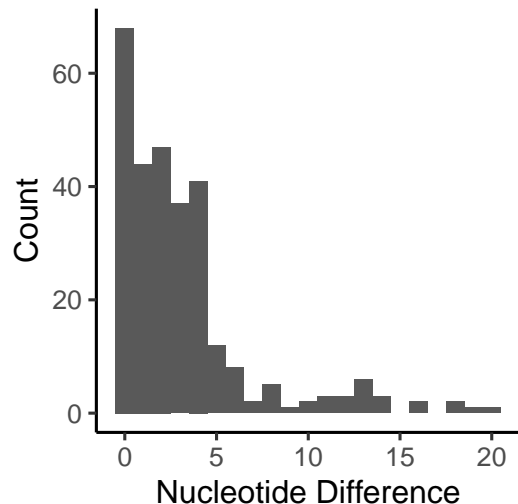
IGHV4-31*02

2527 sequences assigned
640 (25.3%) exact matches, in which:
494 unique CDR3
6 unique J



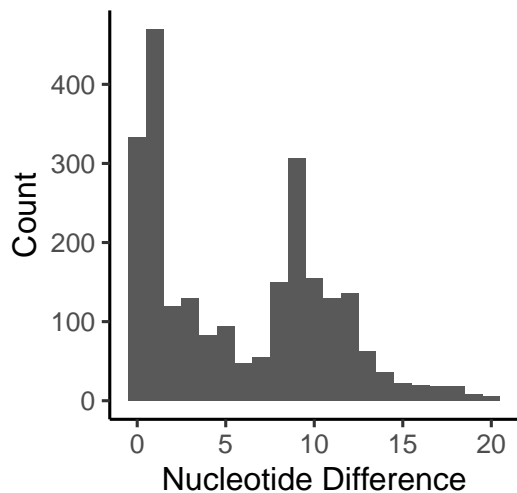
IGHV4-38-2*02

329 sequences assigned
68 (20.7%) exact matches, in which:
53 unique CDR3
5 unique J



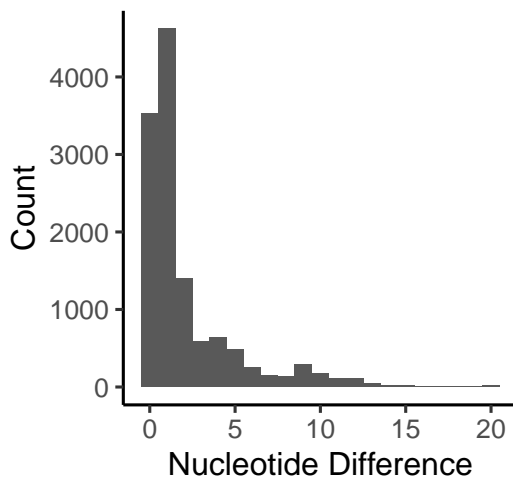
IGHV4-30-4*01

2423 sequences assigned
333 (13.7%) exact matches, in which:
239 unique CDR3
6 unique J



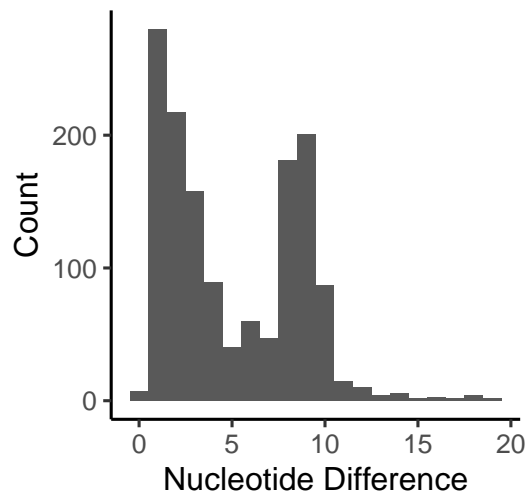
IGHV4-34*01_02

12746 sequences assigned
3523 (27.6%) exact matches, in which:
2271 unique CDR3
6 unique J



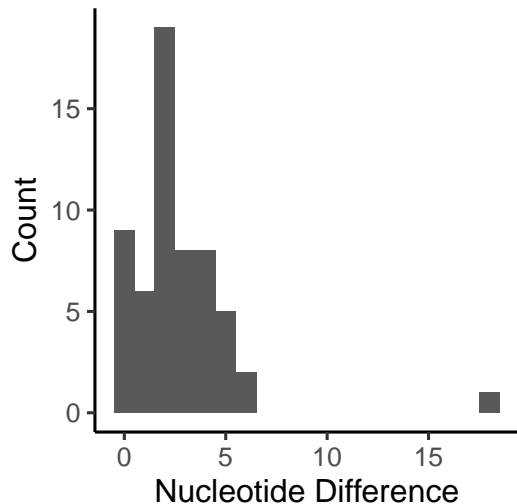
IGHV4-39*07

1425 sequences assigned
7 (0.5%) exact matches, in which:
6 unique CDR3
1 unique J



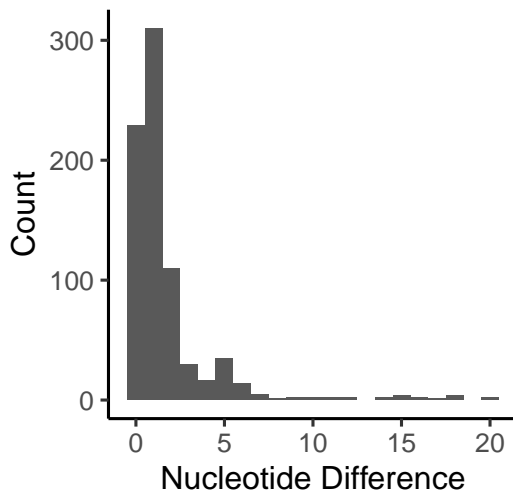
IGHV4-30-2*05

58 sequences assigned
9 (15.5%) exact matches, in which:
9 unique CDR3
3 unique J



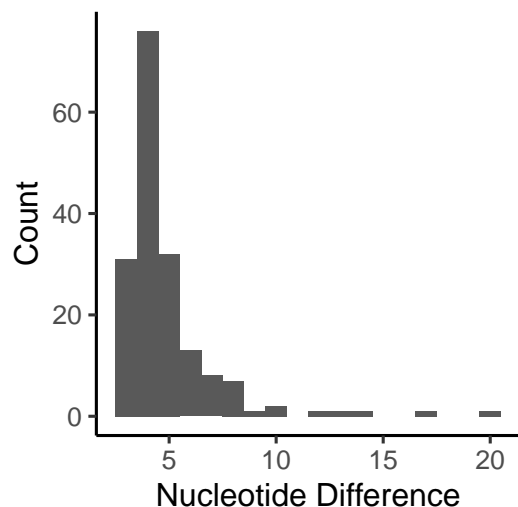
IGHV4-38-2*01

3304 sequences assigned
229 (6.9%) exact matches, in which:
196 unique CDR3
5 unique J



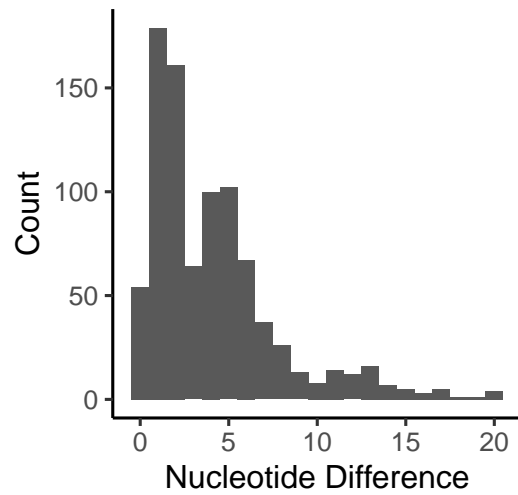
IGHV4-59*05

176 sequences assigned
No exact matches.



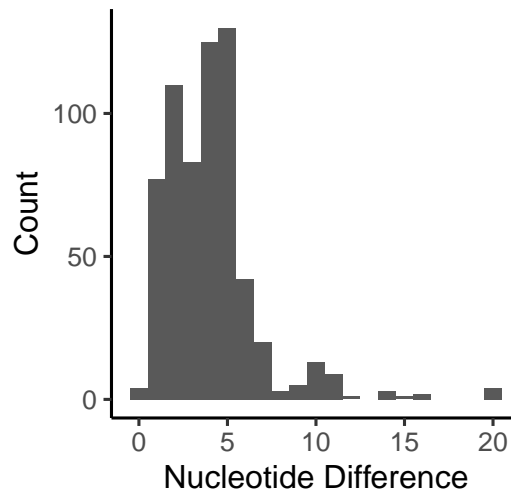
IGHV4–59*08

1074 sequences assigned
54 (5%) exact matches, in which:
50 unique CDR3
5 unique J



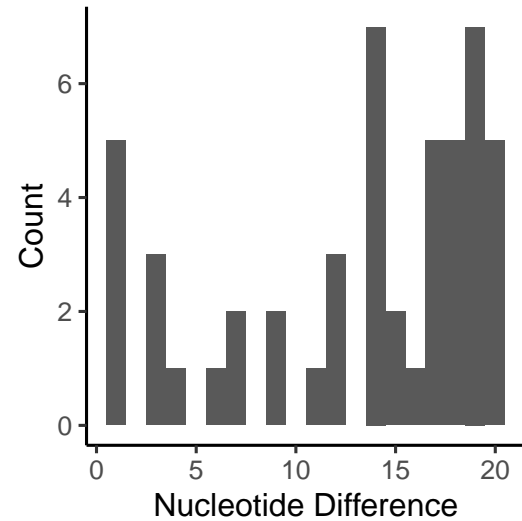
IGHV4–61*08

643 sequences assigned
4 (0.6%) exact matches, in which:
4 unique CDR3
2 unique J



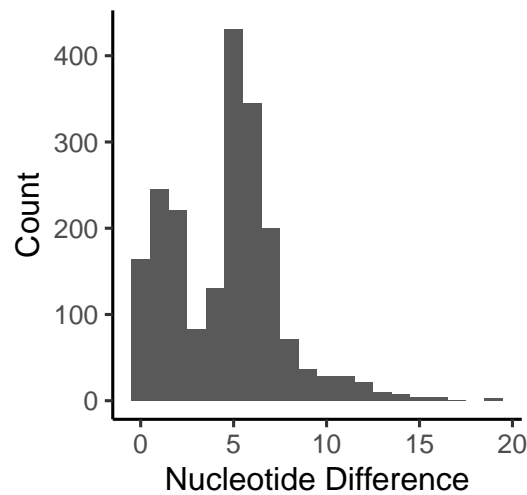
IGHV4/OR15–8*01

71 sequences assigned
No exact matches.



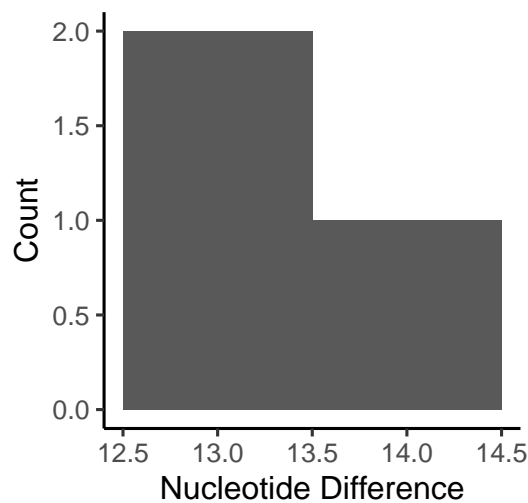
IGHV4–59*12

2040 sequences assigned
164 (8%) exact matches, in which:
155 unique CDR3
5 unique J



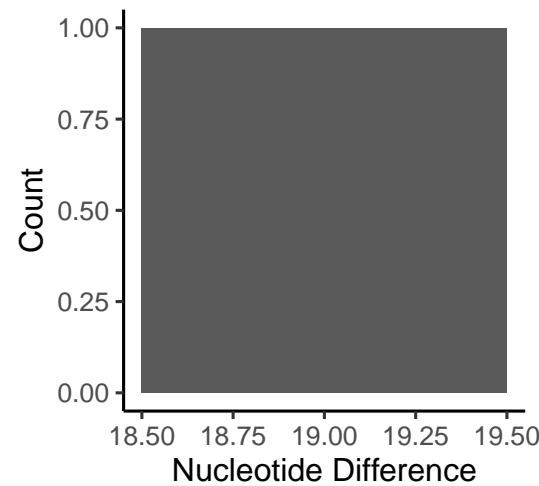
IGHV1/OR15–2*02_03

3 sequences assigned
No exact matches.



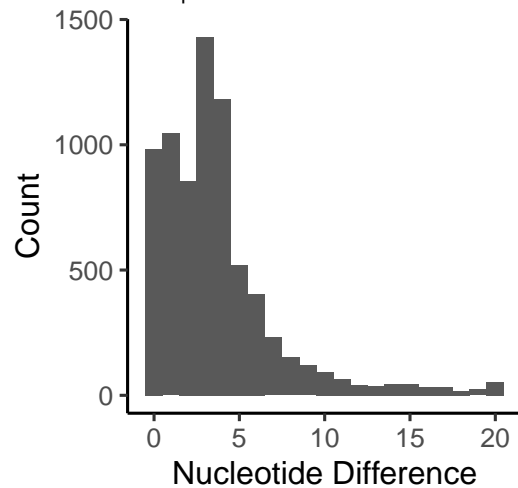
IGHV1/OR15–9*01

1 sequences assigned
No exact matches.



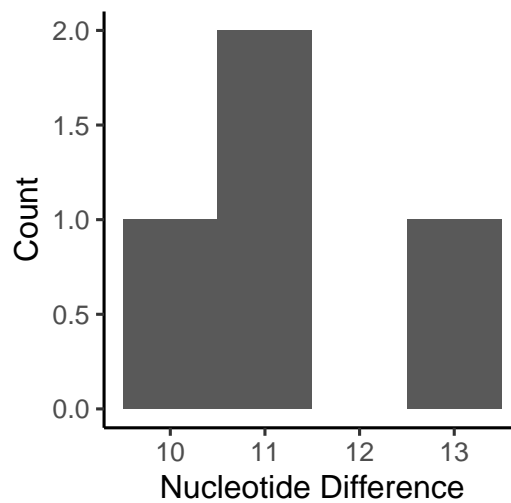
IGHV4–61*01

7603 sequences assigned
984 (12.9%) exact matches, in which:
786 unique CDR3
6 unique J



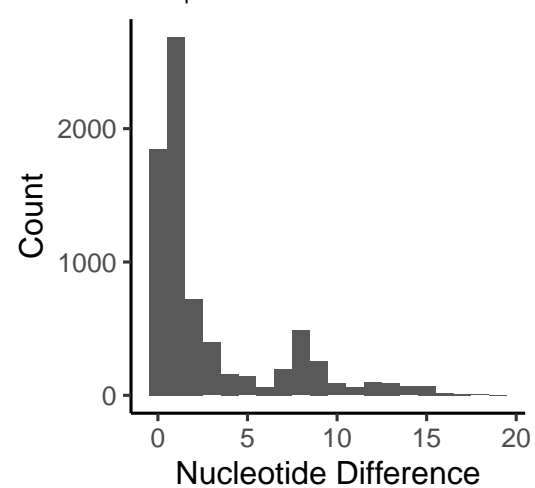
IGHV1/OR15–3*02

4 sequences assigned
No exact matches.



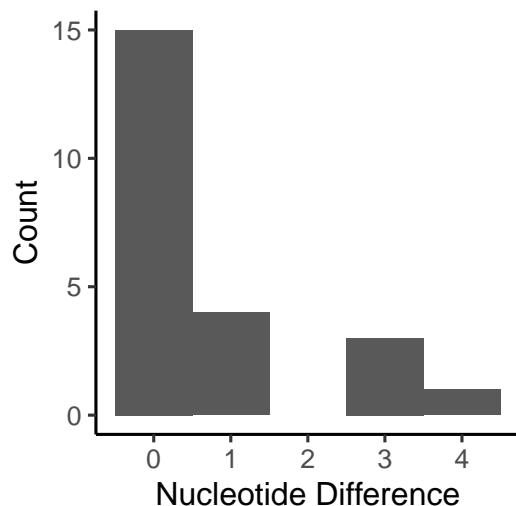
IGHV5–10–1*01_03

7491 sequences assigned
1848 (24.7%) exact matches, in which:
1073 unique CDR3
6 unique J



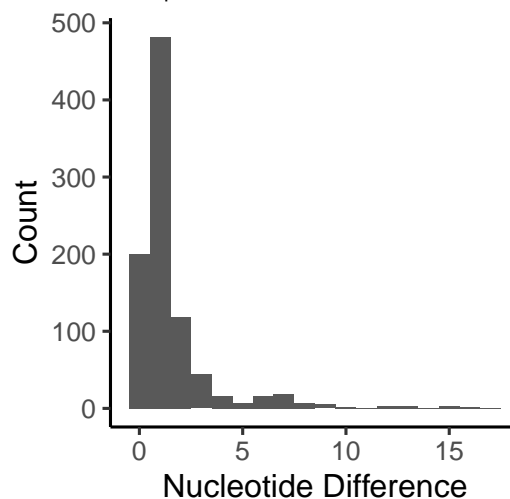
IGHV5-51*04

23 sequences assigned
15 (65.2%) exact matches, in which:
15 unique CDR3
5 unique J



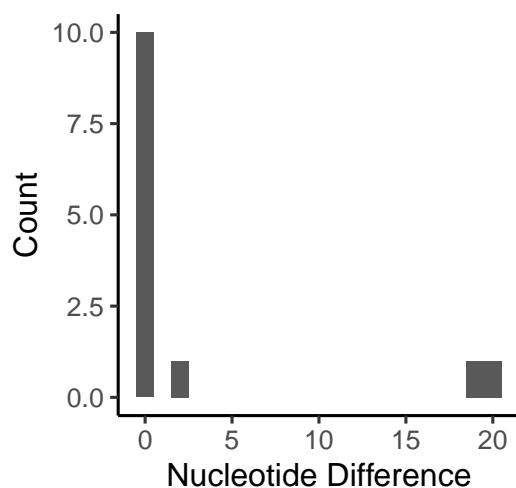
IGHV6-1*01_02

1030 sequences assigned
200 (19.4%) exact matches, in which:
151 unique CDR3
5 unique J



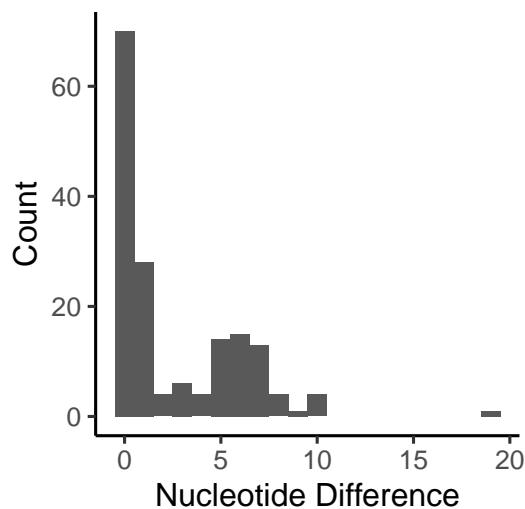
IGHV5-51*06

13 sequences assigned
10 (76.9%) exact matches, in which:
10 unique CDR3
3 unique J



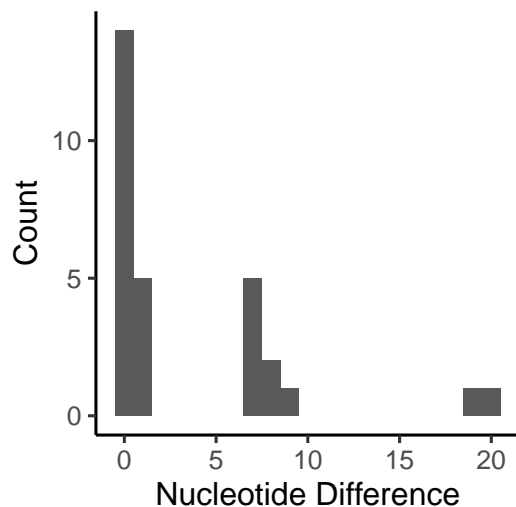
IGHV6-1*01_02_A315G

165 sequences assigned
70 (42.4%) exact matches, in which:
69 unique CDR3
6 unique J



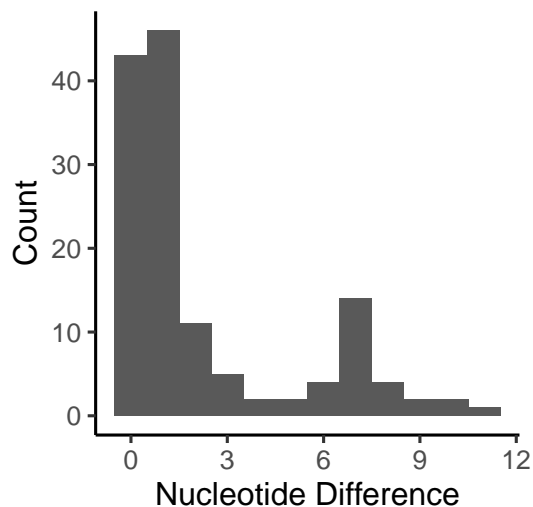
IGHV5-51*07

31 sequences assigned
14 (45.2%) exact matches, in which:
14 unique CDR3
6 unique J



IGHV7-4-1*01

136 sequences assigned
43 (31.6%) exact matches, in which:
31 unique CDR3
4 unique J



IGHV6-1*01_02_A315G

