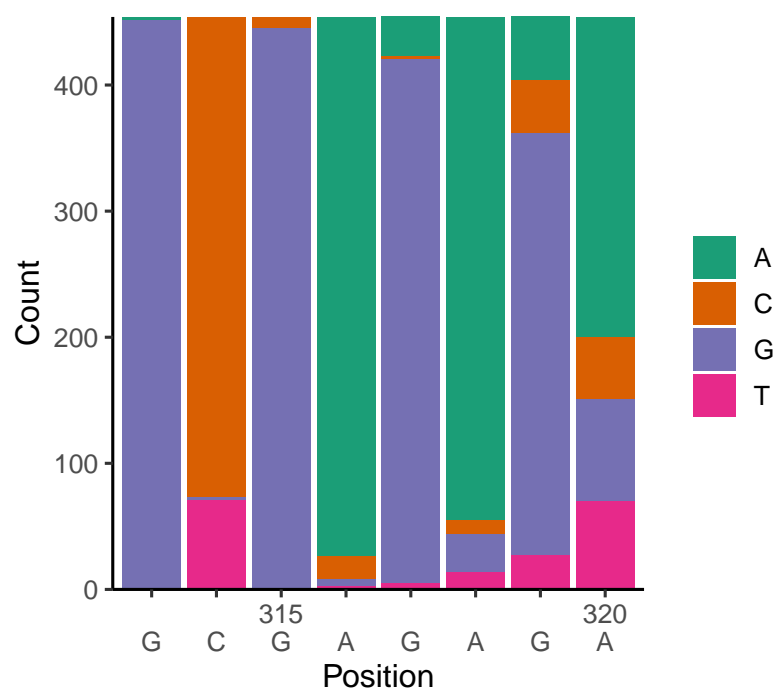
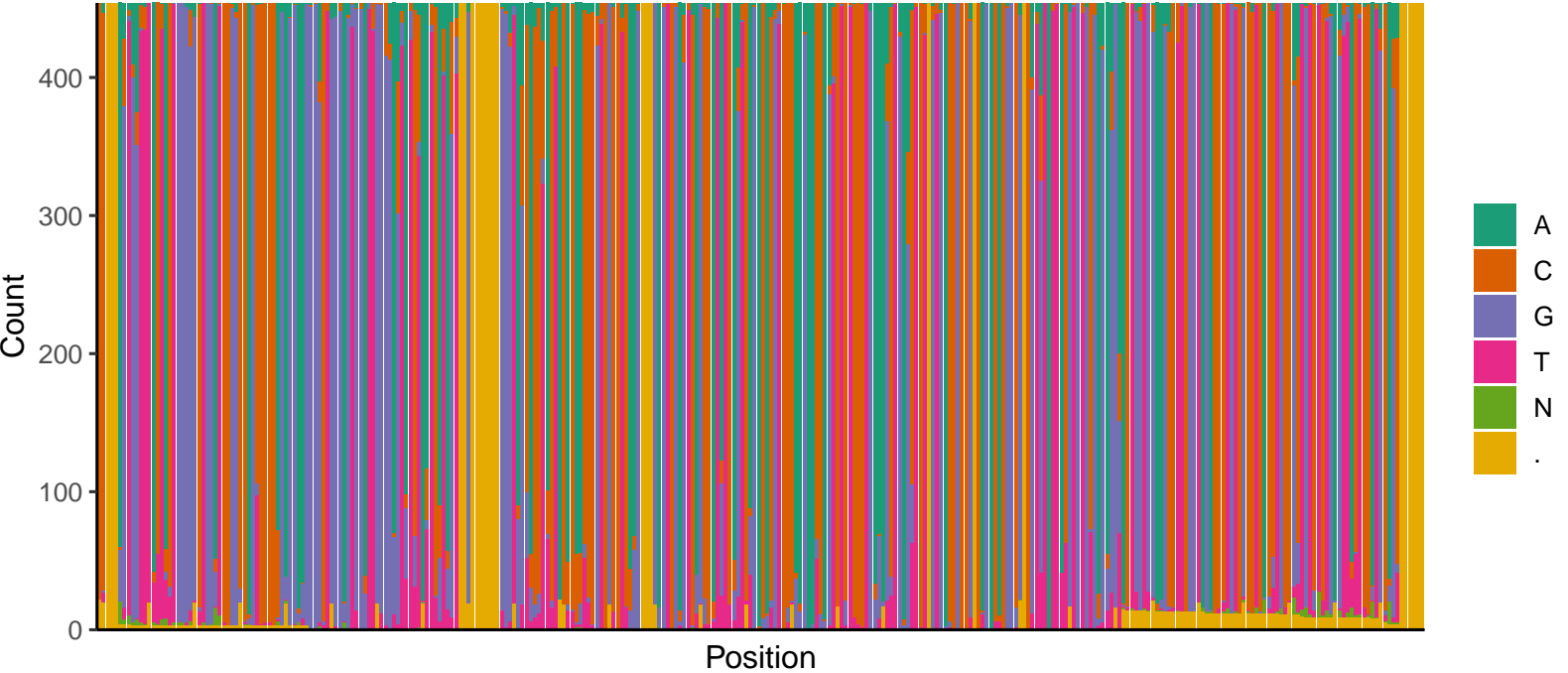


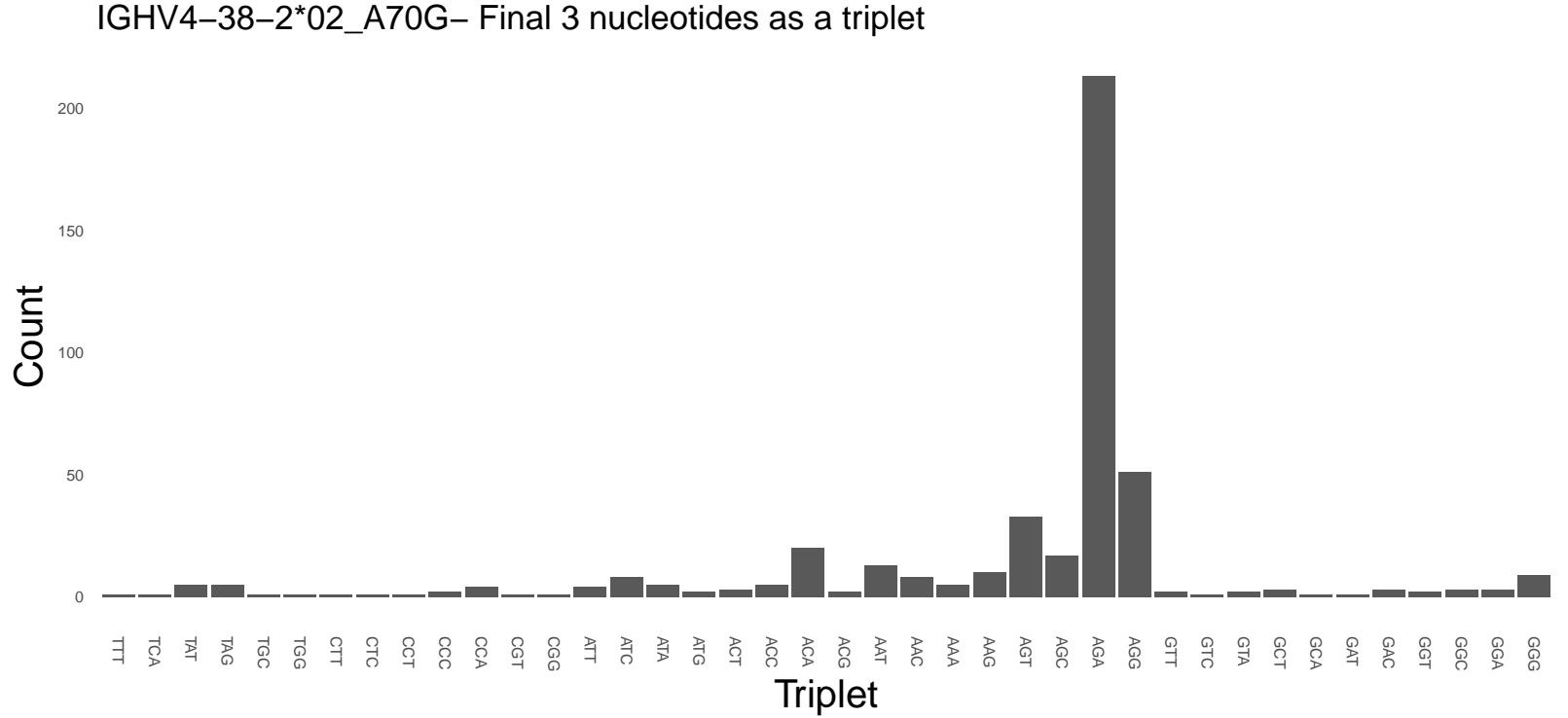
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

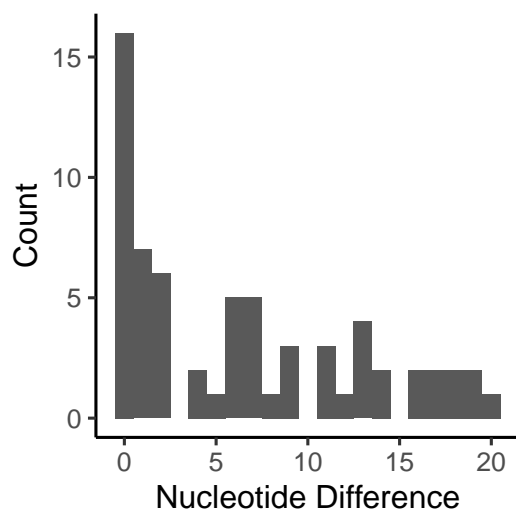


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



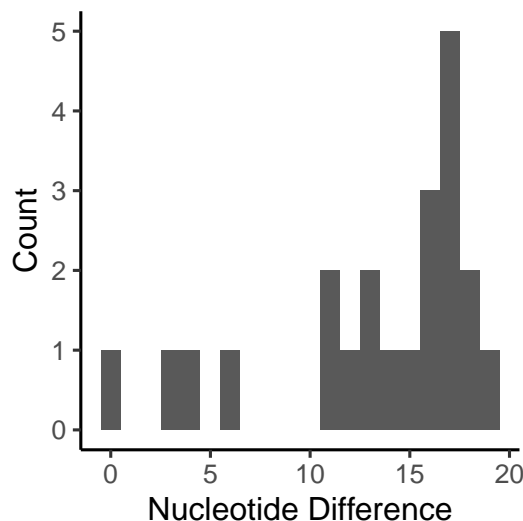
IGHV1-2*04

111 sequences assigned
16 (14.4%) exact matches, in which:
16 unique CDR3
4 unique J



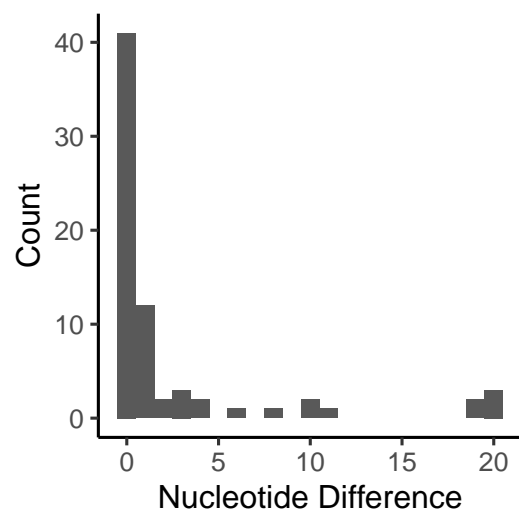
IGHV1-3*04

45 sequences assigned
1 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



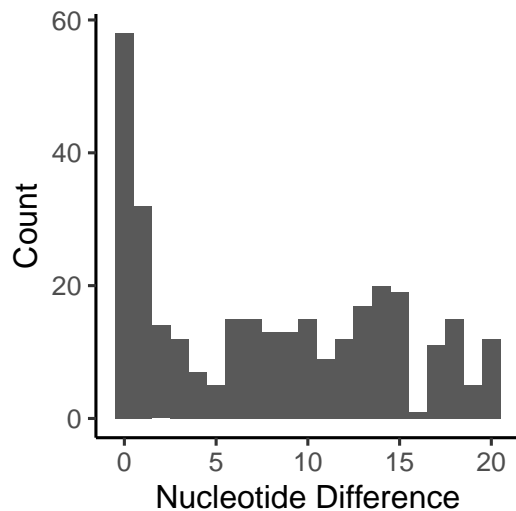
IGHV1-24*01

96 sequences assigned
41 (42.7%) exact matches, in which:
40 unique CDR3
5 unique J



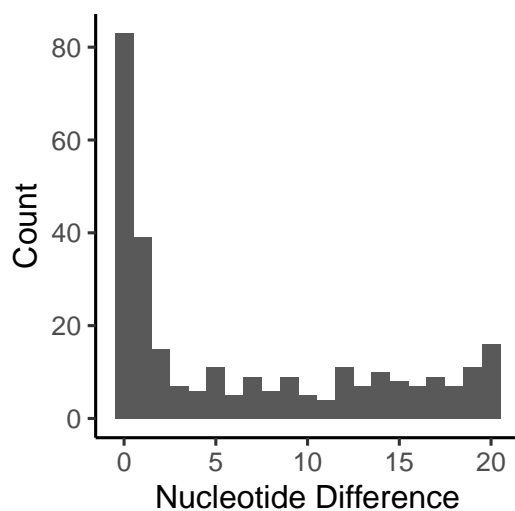
IGHV1-2*06

493 sequences assigned
58 (11.8%) exact matches, in which:
58 unique CDR3
6 unique J



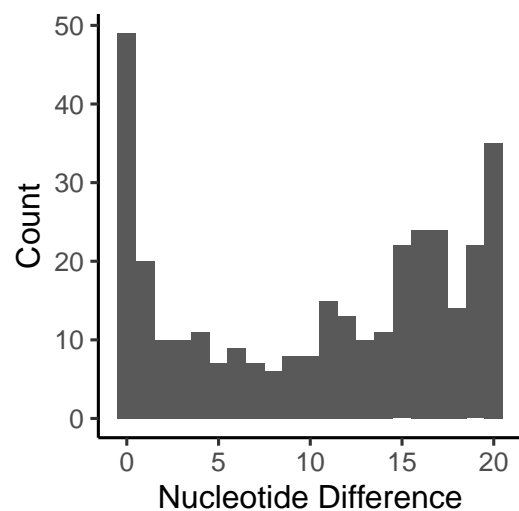
IGHV1-8*01

342 sequences assigned
83 (24.3%) exact matches, in which:
83 unique CDR3
4 unique J



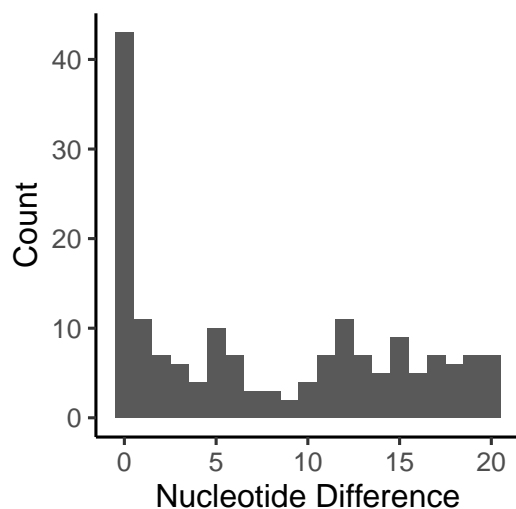
IGHV1-46*01

962 sequences assigned
49 (5.1%) exact matches, in which:
47 unique CDR3
5 unique J



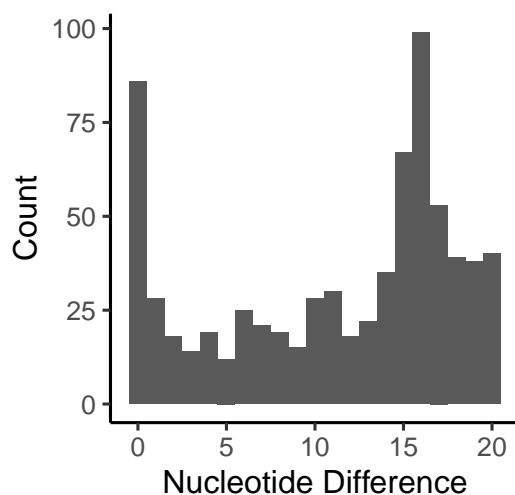
IGHV1-3*01

265 sequences assigned
43 (16.2%) exact matches, in which:
42 unique CDR3
4 unique J



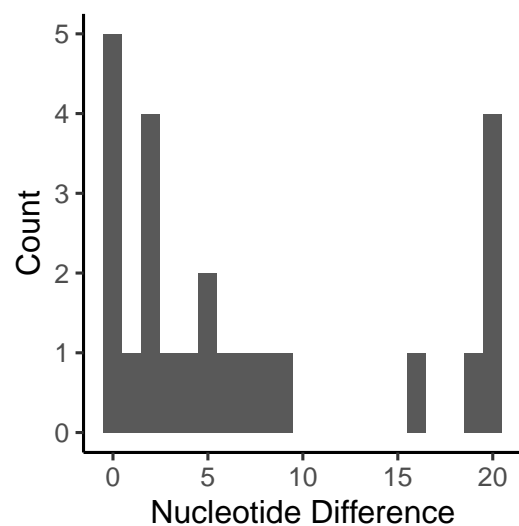
IGHV1-18*01

916 sequences assigned
86 (9.4%) exact matches, in which:
85 unique CDR3
6 unique J



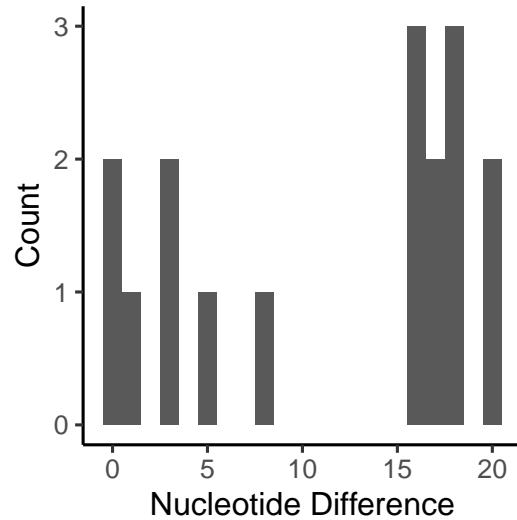
IGHV1-58*01

44 sequences assigned
5 (11.4%) exact matches, in which:
5 unique CDR3
3 unique J



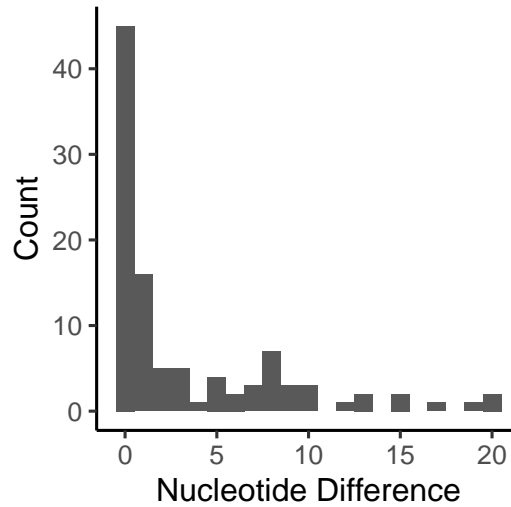
IGHV1-58*02

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



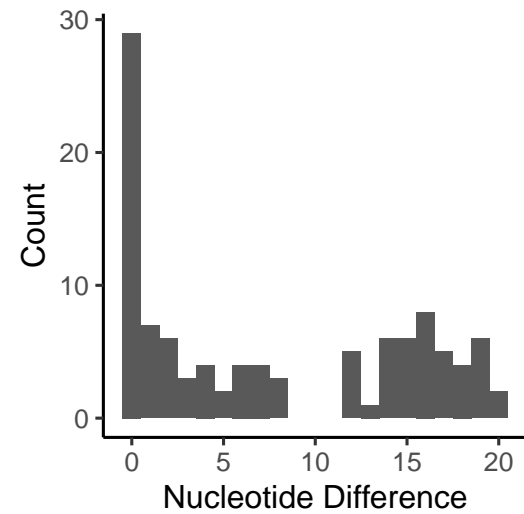
IGHV1-69*06

173 sequences assigned
45 (26%) exact matches, in which:
45 unique CDR3
5 unique J



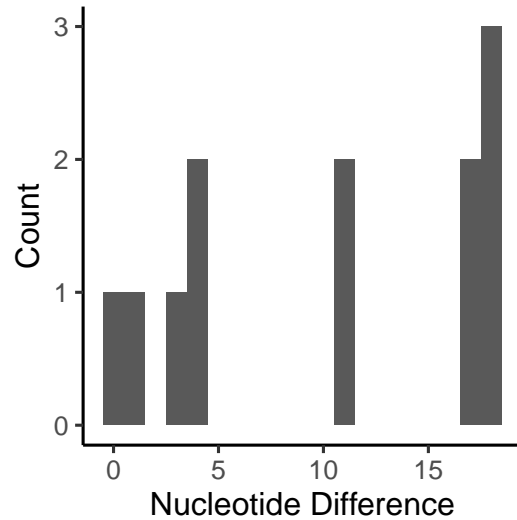
IGHV2-26*01

118 sequences assigned
29 (24.6%) exact matches, in which:
28 unique CDR3
5 unique J



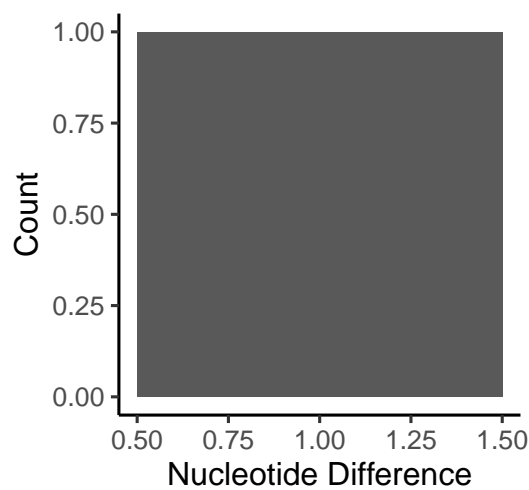
IGHV1-69-2*01

13 sequences assigned
1 (7.7%) exact matches, in which:
1 unique CDR3
1 unique J



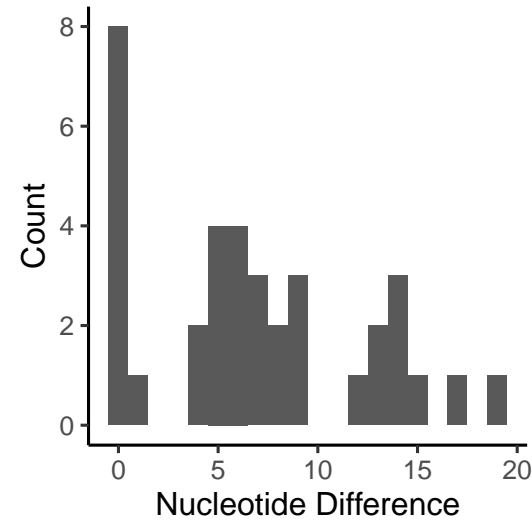
IGHV1-NL1*01

1 sequences assigned
No exact matches.



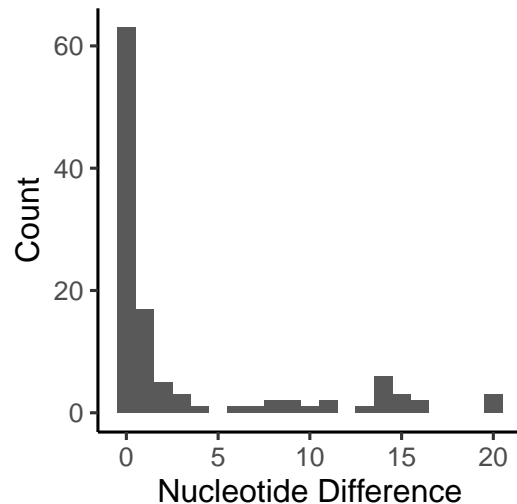
IGHV2-70*01

36 sequences assigned
8 (22.2%) exact matches, in which:
8 unique CDR3
4 unique J



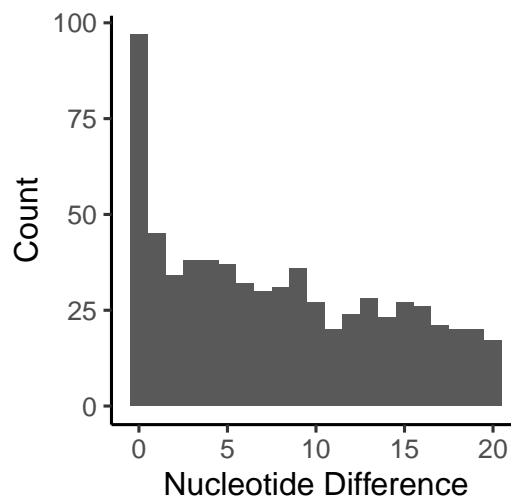
IGHV1-69*04

187 sequences assigned
63 (33.7%) exact matches, in which:
62 unique CDR3
5 unique J



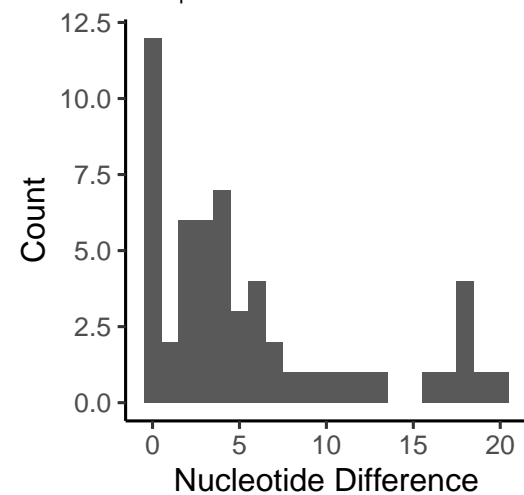
IGHV2-5*02

794 sequences assigned
97 (12.2%) exact matches, in which:
96 unique CDR3
6 unique J



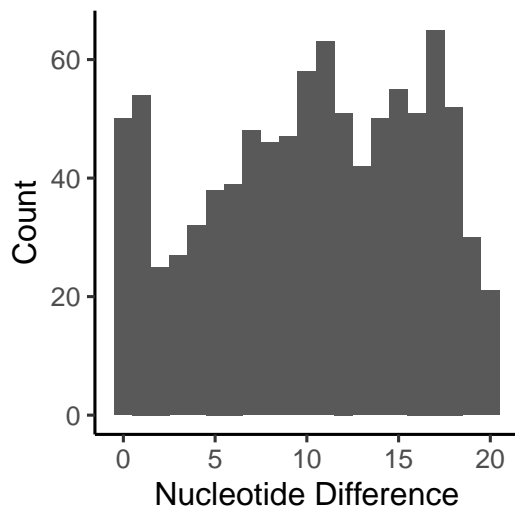
IGHV2-70*15

71 sequences assigned
12 (16.9%) exact matches, in which:
12 unique CDR3
3 unique J



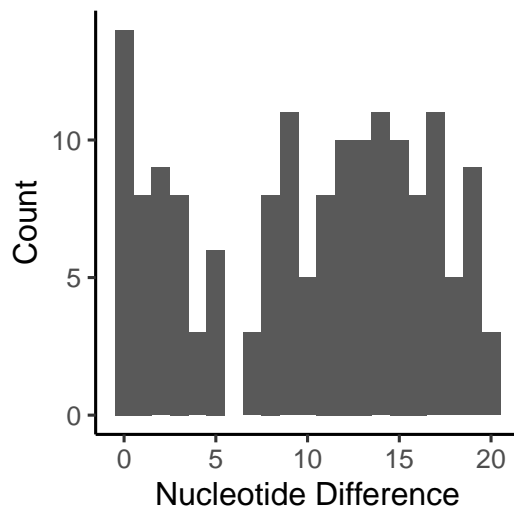
IGHV3-7*01

1153 sequences assigned
50 (4.3%) exact matches, in which:
50 unique CDR3
5 unique J



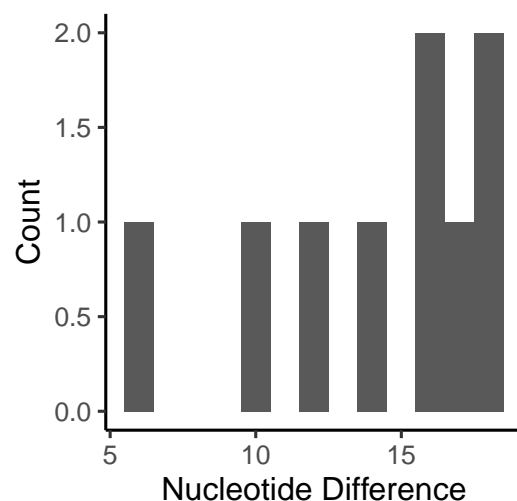
IGHV3-13*01

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



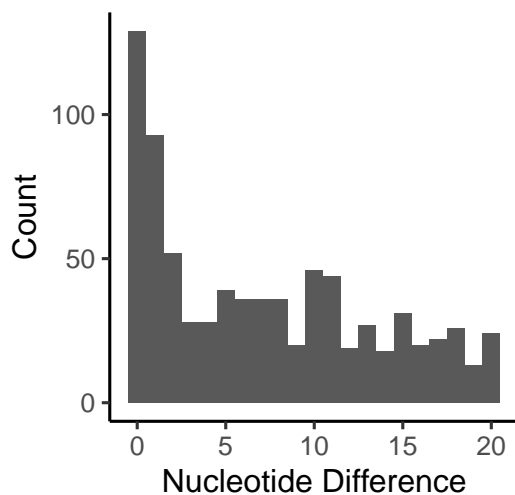
IGHV3-20*04

22 sequences assigned
No exact matches.



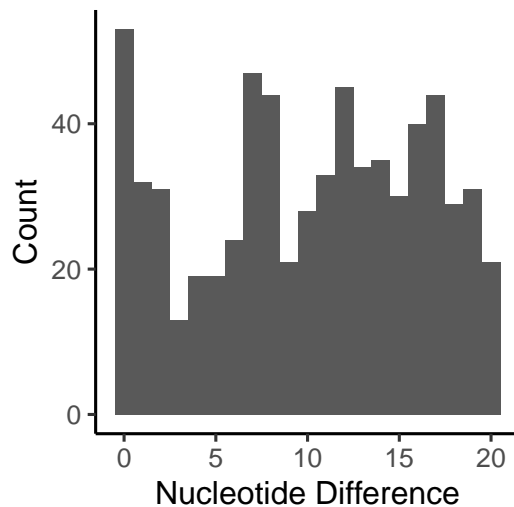
IGHV3-9*01

1007 sequences assigned
129 (12.8%) exact matches, in which:
127 unique CDR3
6 unique J



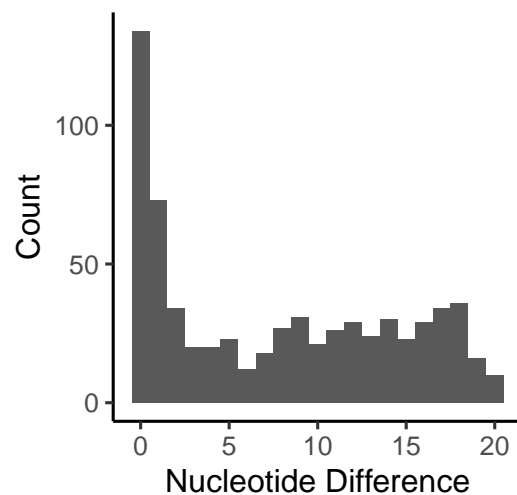
IGHV3-15*01

908 sequences assigned
53 (5.8%) exact matches, in which:
51 unique CDR3
5 unique J



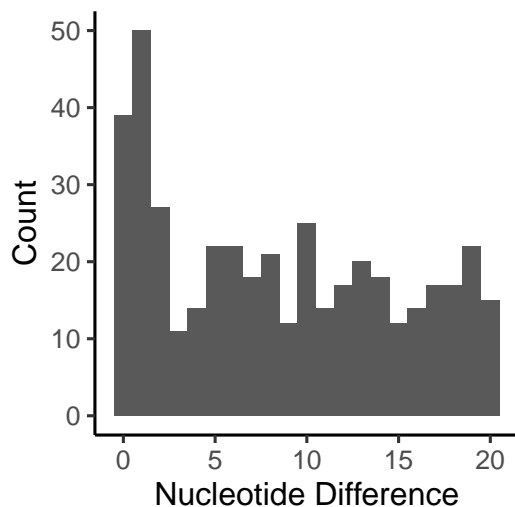
IGHV3-21*01

828 sequences assigned
134 (16.2%) exact matches, in which:
128 unique CDR3
6 unique J



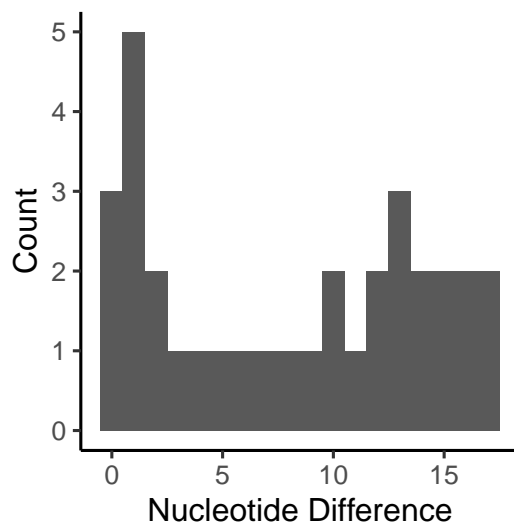
IGHV3-11*01

583 sequences assigned
39 (6.7%) exact matches, in which:
37 unique CDR3
5 unique J



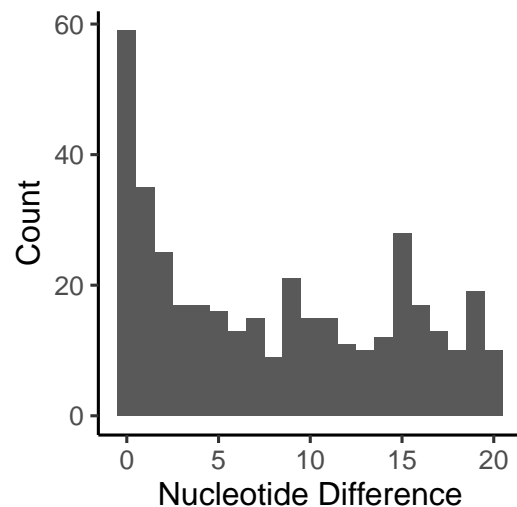
IGHV3-20*01

39 sequences assigned
3 (7.7%) exact matches, in which:
3 unique CDR3
3 unique J



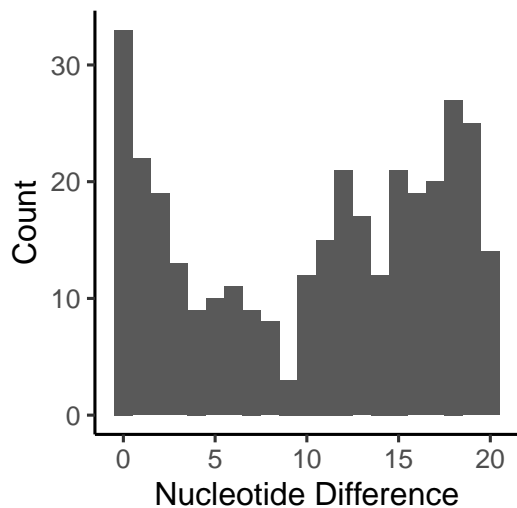
IGHV3-30-3*01

477 sequences assigned
59 (12.4%) exact matches, in which:
59 unique CDR3
5 unique J



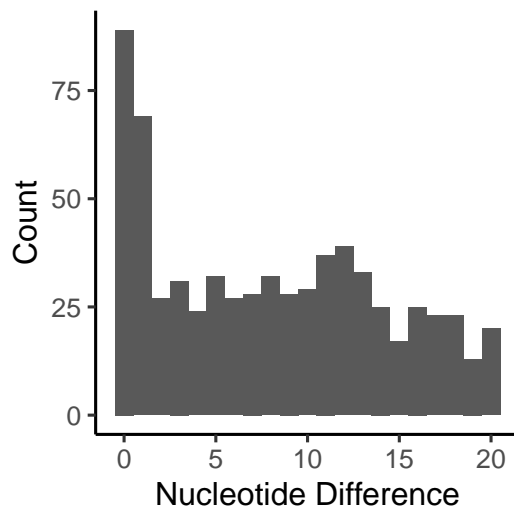
IGHV3-33*01

431 sequences assigned
33 (7.7%) exact matches, in which:
32 unique CDR3
5 unique J



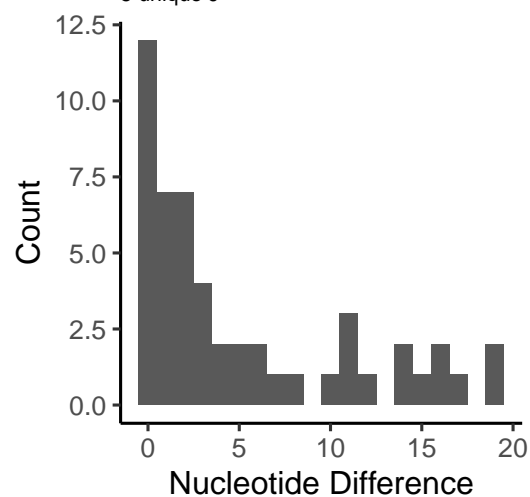
IGHV3-48*03

859 sequences assigned
89 (10.4%) exact matches, in which:
87 unique CDR3
5 unique J



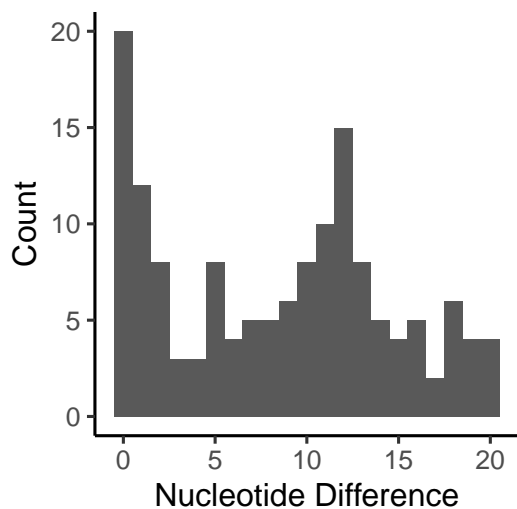
IGHV3-53*04

62 sequences assigned
12 (19.4%) exact matches, in which:
12 unique CDR3
5 unique J



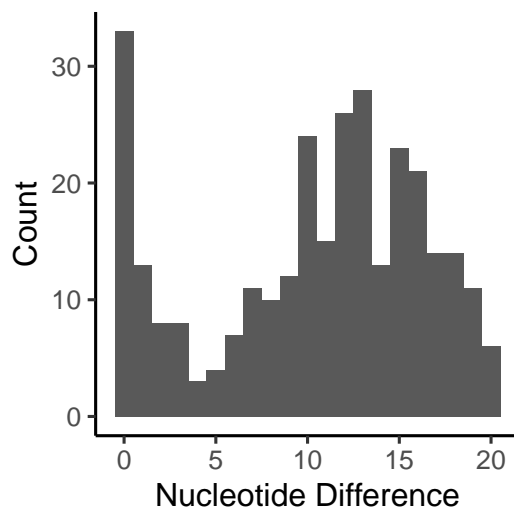
IGHV3-43*02

193 sequences assigned
20 (10.4%) exact matches, in which:
20 unique CDR3
4 unique J



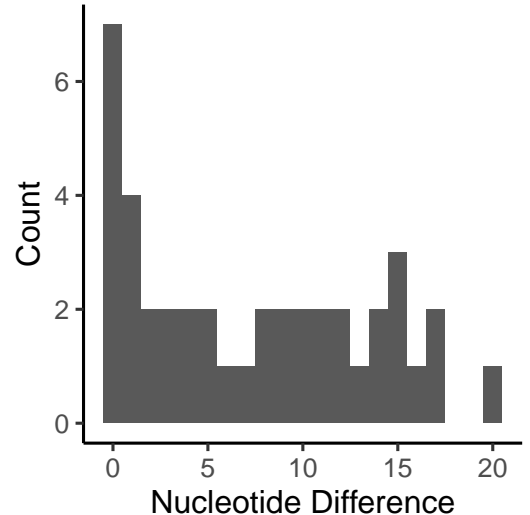
IGHV3-49*04

442 sequences assigned
33 (7.5%) exact matches, in which:
33 unique CDR3
4 unique J



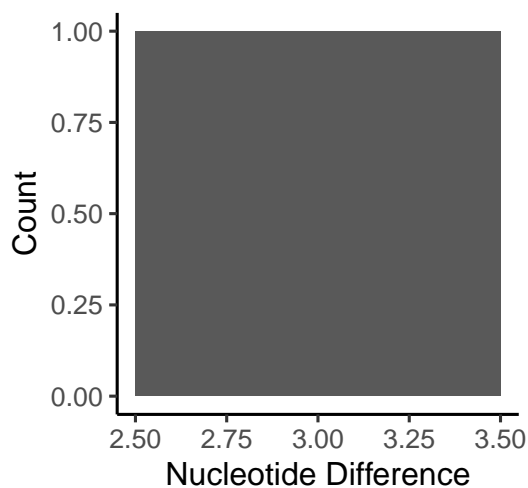
IGHV3-64*01

54 sequences assigned
7 (13%) exact matches, in which:
7 unique CDR3
4 unique J



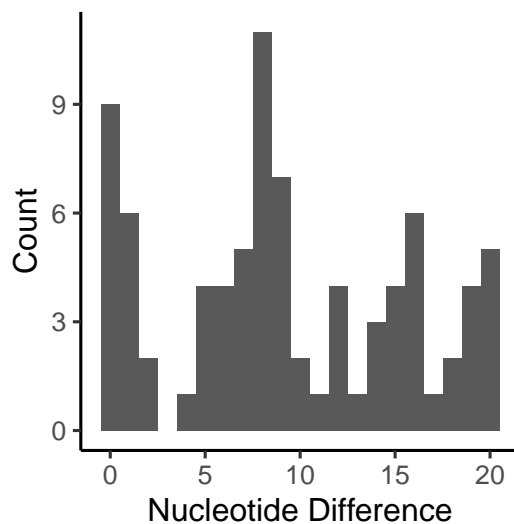
IGHV3-47*02

1 sequences assigned
No exact matches.



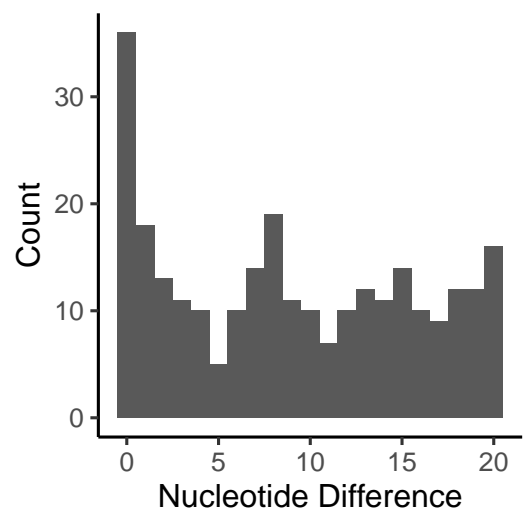
IGHV3-53*02

114 sequences assigned
9 (7.9%) exact matches, in which:
9 unique CDR3
3 unique J



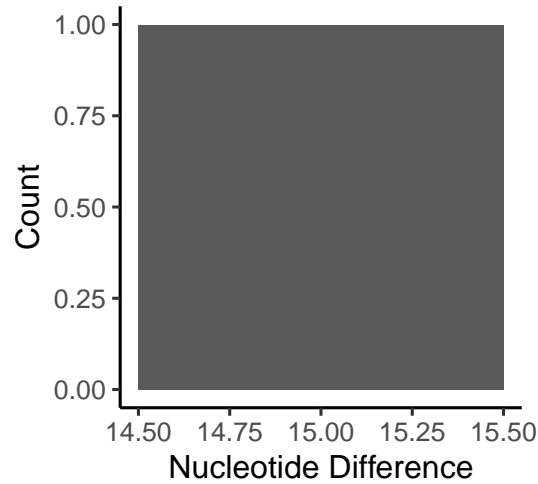
IGHV3-66*01

347 sequences assigned
36 (10.4%) exact matches, in which:
35 unique CDR3
4 unique J



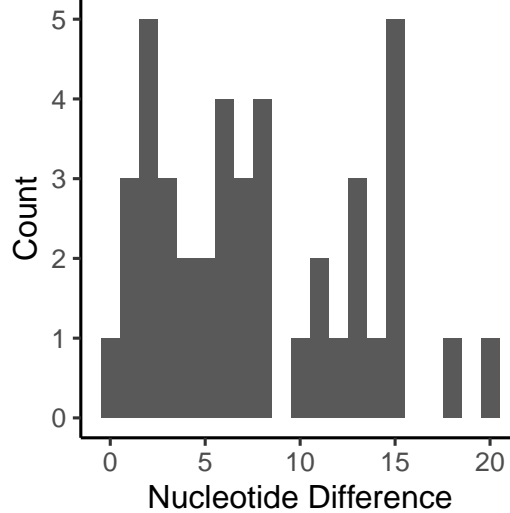
IGHV3-69-1*01

1 sequences assigned
No exact matches.



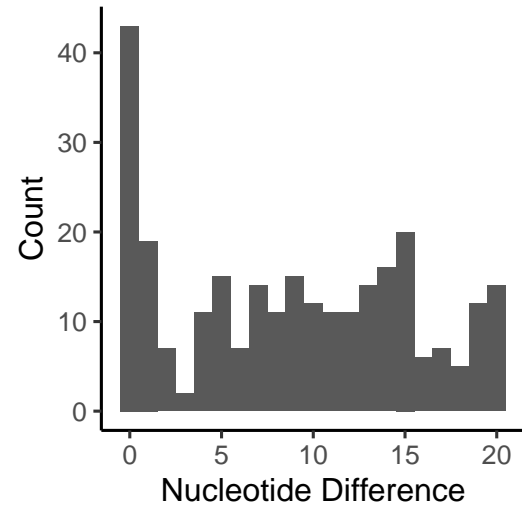
IGHV3-73*02

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



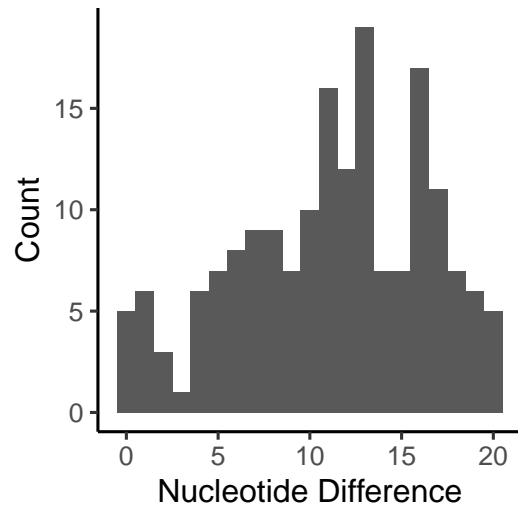
IGHV4-4*02

392 sequences assigned
43 (11%) exact matches, in which:
43 unique CDR3
6 unique J



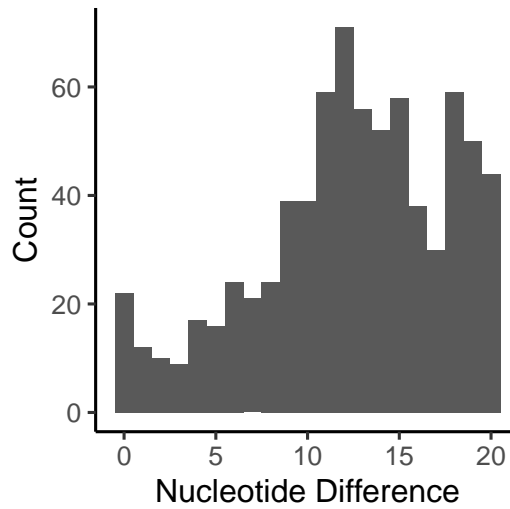
IGHV3-72*01

208 sequences assigned
5 (2.4%) exact matches, in which:
5 unique CDR3
3 unique J



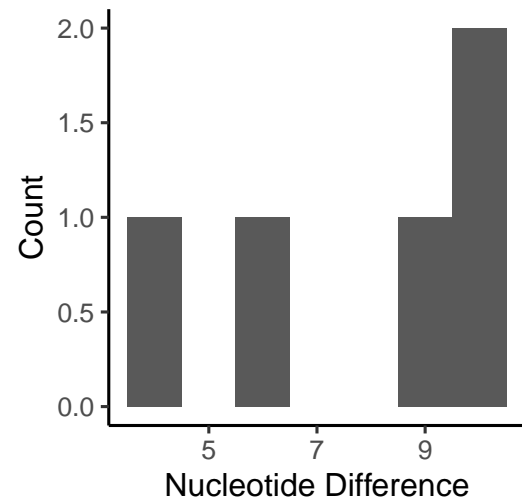
IGHV3-74*01

1020 sequences assigned
22 (2.2%) exact matches, in which:
22 unique CDR3
5 unique J



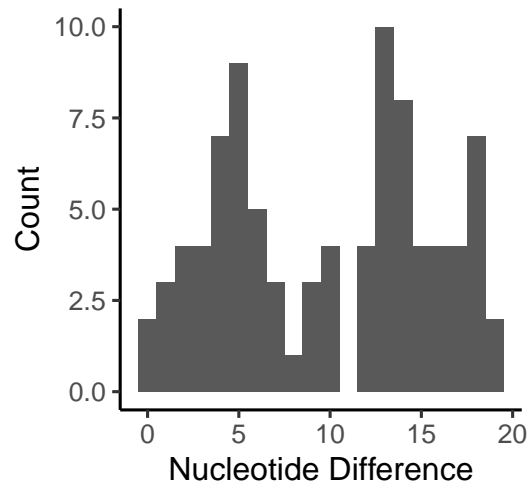
IGHV4-28*01

5 sequences assigned
No exact matches.



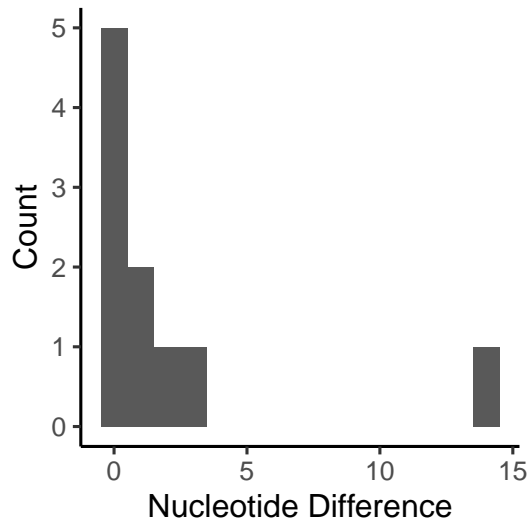
IGHV3-73*01

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



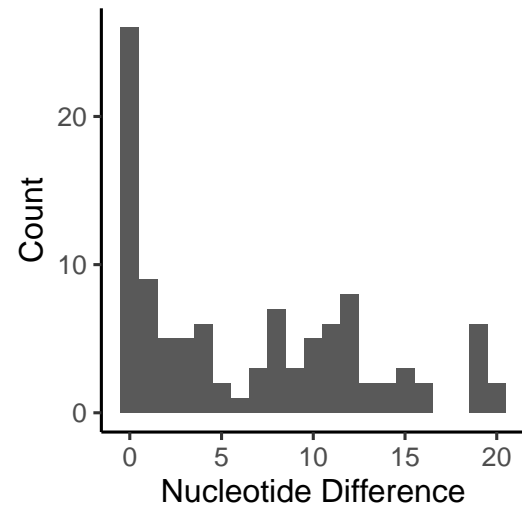
IGHV3-43D*04

13 sequences assigned
5 (38.5%) exact matches, in which:
5 unique CDR3
2 unique J



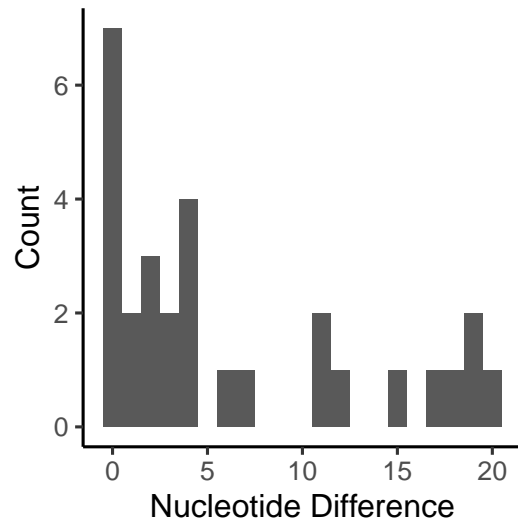
IGHV4-30-4*01

130 sequences assigned
26 (20%) exact matches, in which:
25 unique CDR3
5 unique J



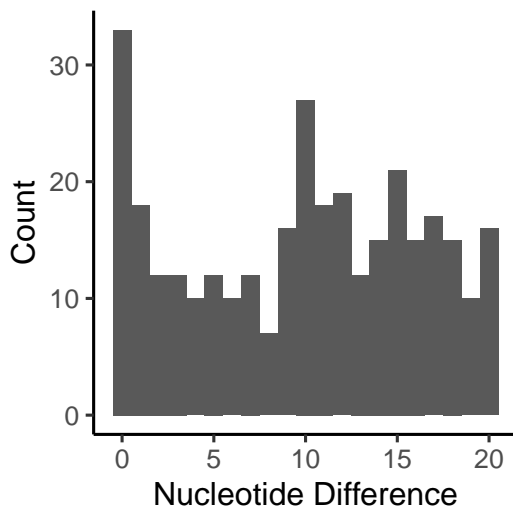
IGHV4-30-2*01

38 sequences assigned
7 (18.4%) exact matches, in which:
7 unique CDR3
3 unique J



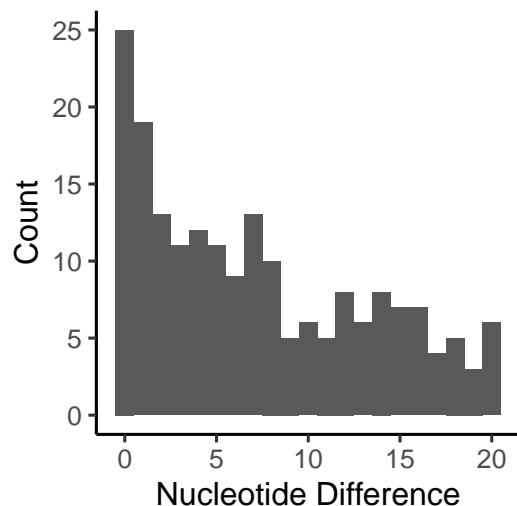
IGHV4-38-2*02_A70G

454 sequences assigned
33 (7.3%) exact matches, in which:
32 unique CDR3
6 unique J



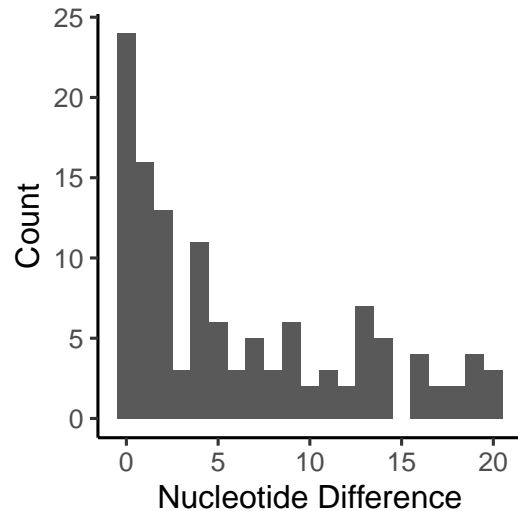
IGHV4-59*08

270 sequences assigned
25 (9.3%) exact matches, in which:
24 unique CDR3
5 unique J



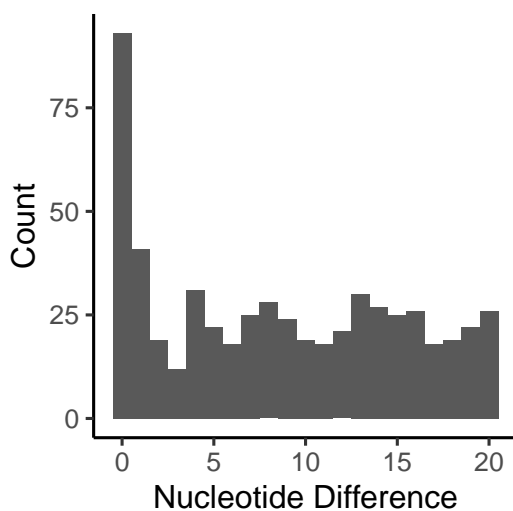
IGHV4-31*03

152 sequences assigned
24 (15.8%) exact matches, in which:
24 unique CDR3
5 unique J



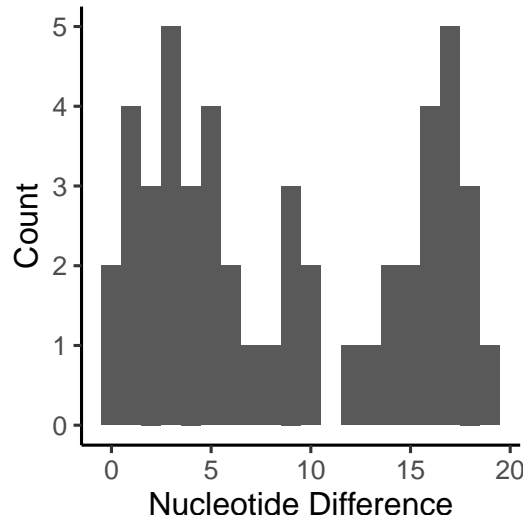
IGHV4-39*01

832 sequences assigned
93 (11.2%) exact matches, in which:
91 unique CDR3
6 unique J



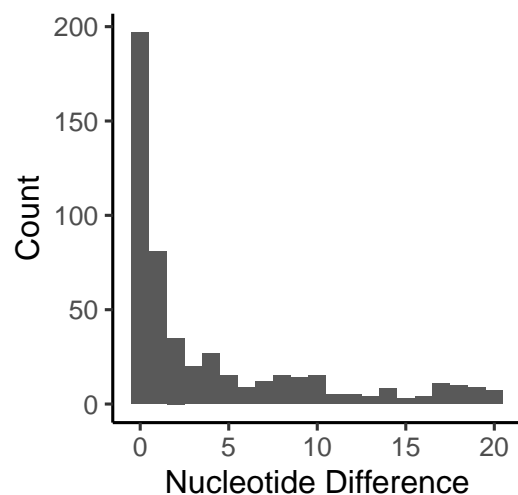
IGHV4-61*01

72 sequences assigned
2 (2.8%) exact matches, in which:
2 unique CDR3
1 unique J



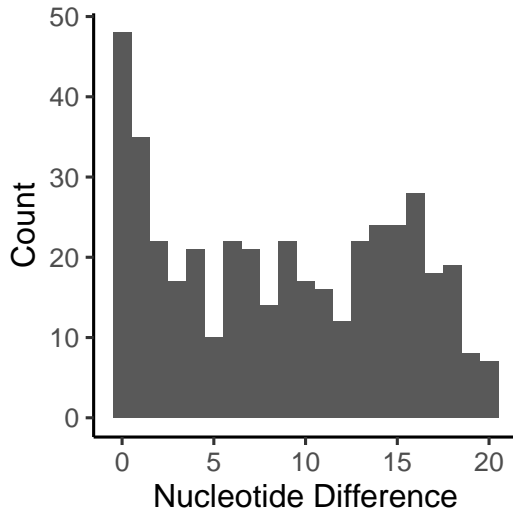
IGHV4-34*01

592 sequences assigned
197 (33.3%) exact matches, in which:
196 unique CDR3
6 unique J



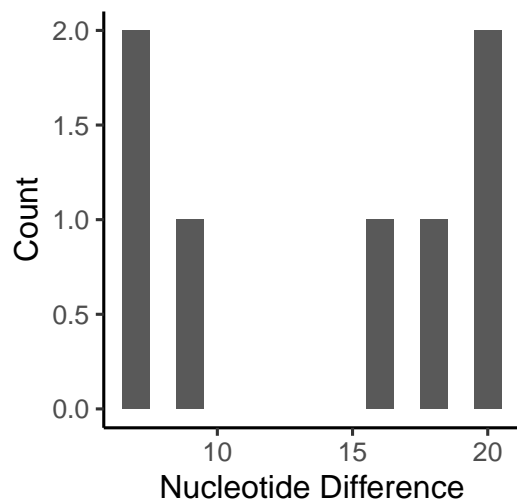
IGHV4-59*01

536 sequences assigned
48 (9%) exact matches, in which:
47 unique CDR3
5 unique J



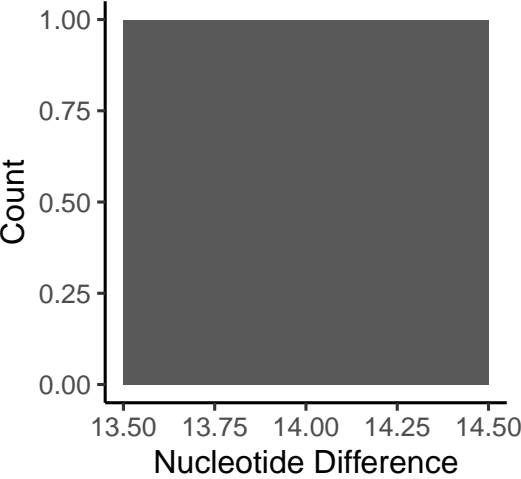
IGHV4-61*08

23 sequences assigned
No exact matches.



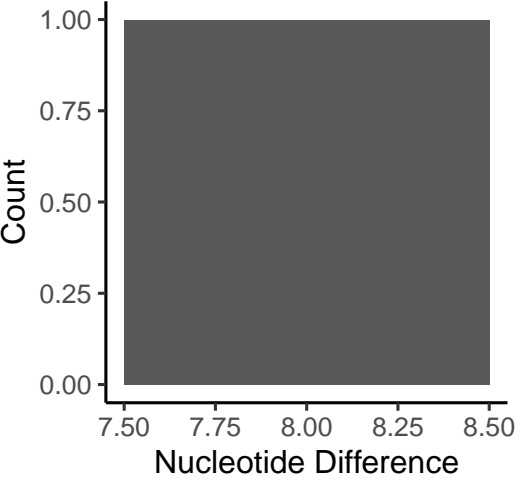
IGHV4/OR15–8*01

1 sequences assigned
No exact matches.



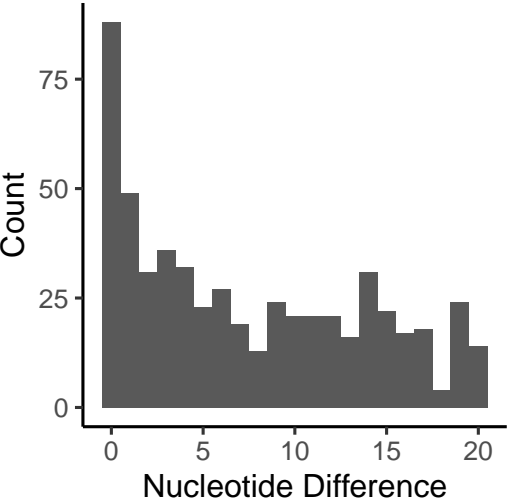
IGHV3/OR16–9*01

1 sequences assigned
No exact matches.



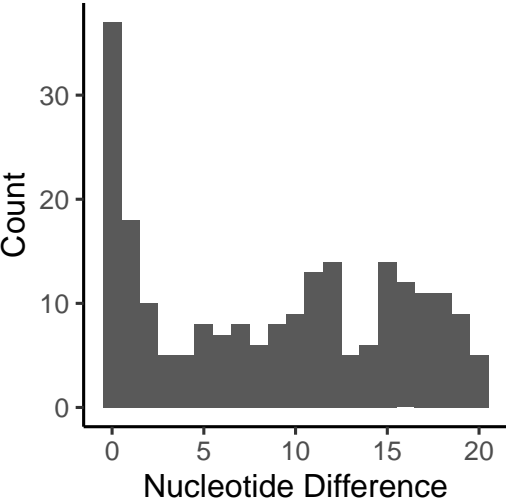
IGHV5–51*01

686 sequences assigned
88 (12.8%) exact matches, in which:
87 unique CDR3
5 unique J



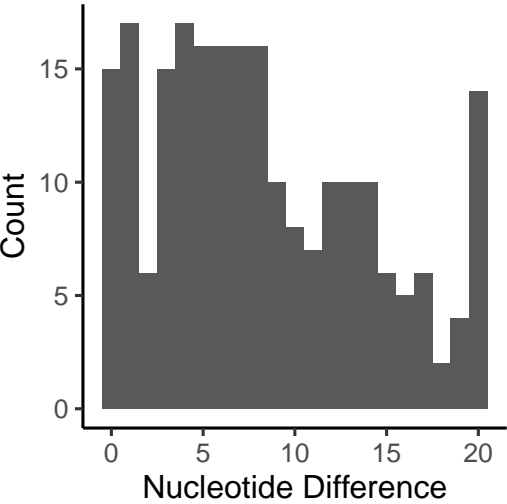
IGHV7–4–1*02

287 sequences assigned
37 (12.9%) exact matches, in which:
37 unique CDR3
6 unique J

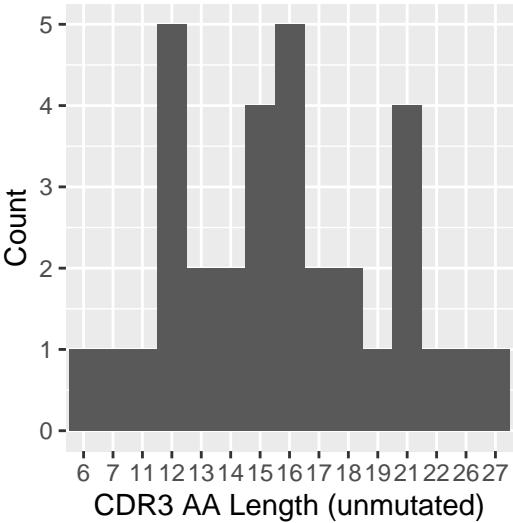


IGHV6–1*01

277 sequences assigned
15 (5.4%) exact matches, in which:
15 unique CDR3
5 unique J



IGHV4-38-2*02_A70G





[illegible]