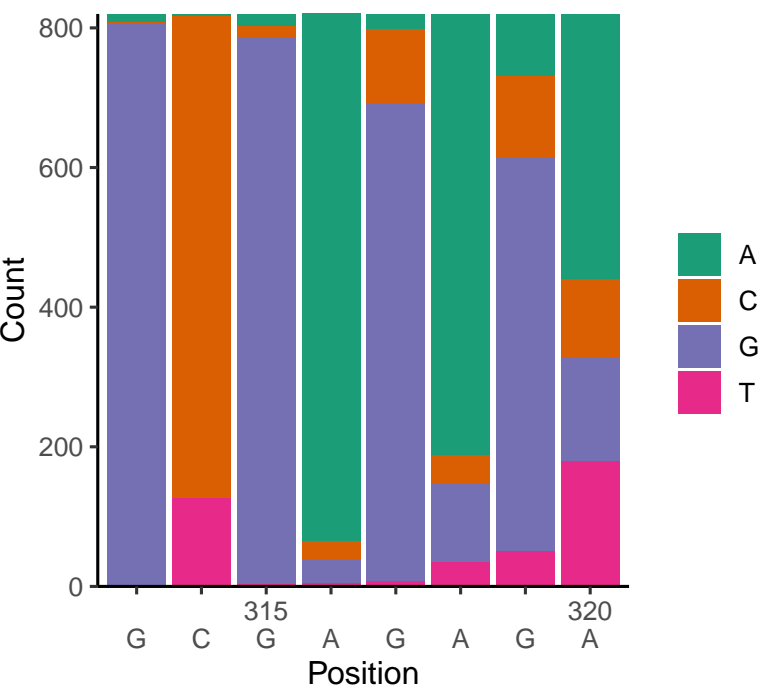
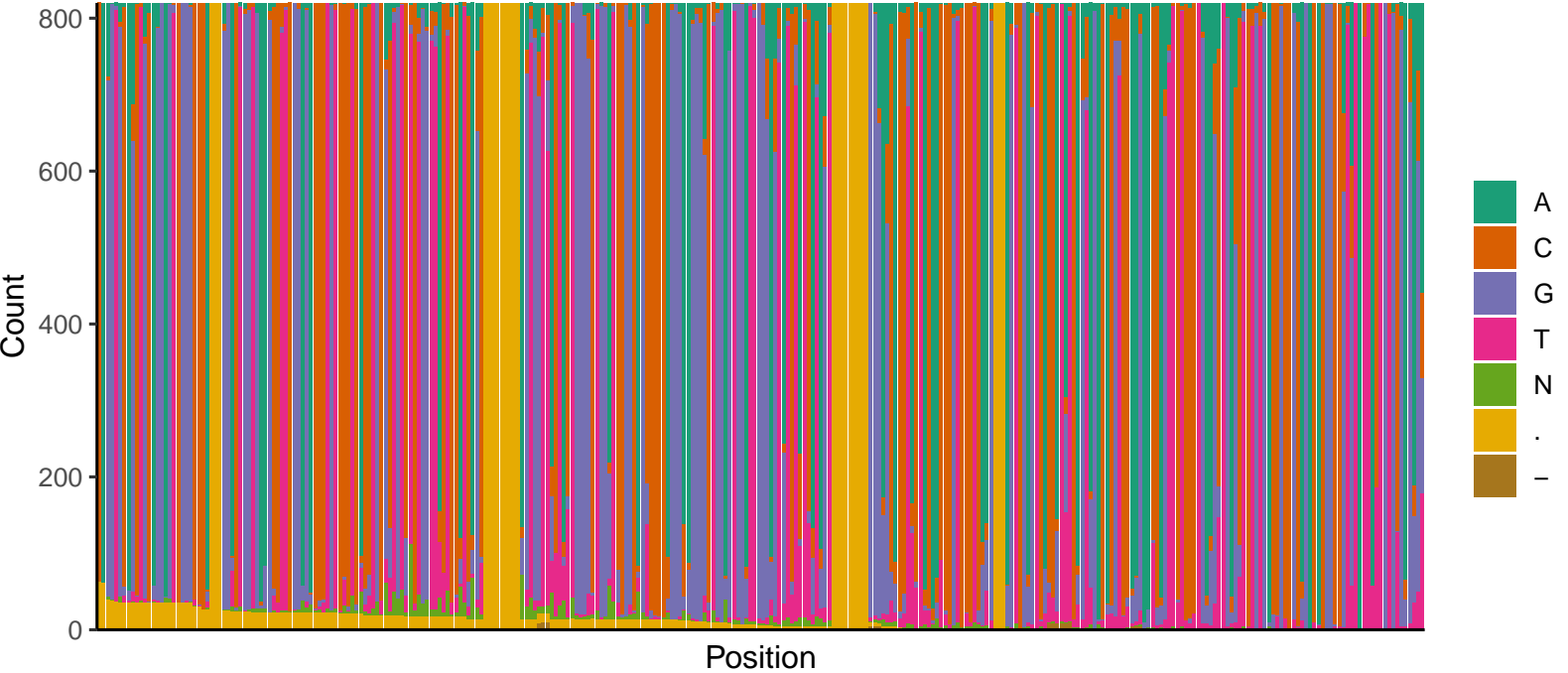


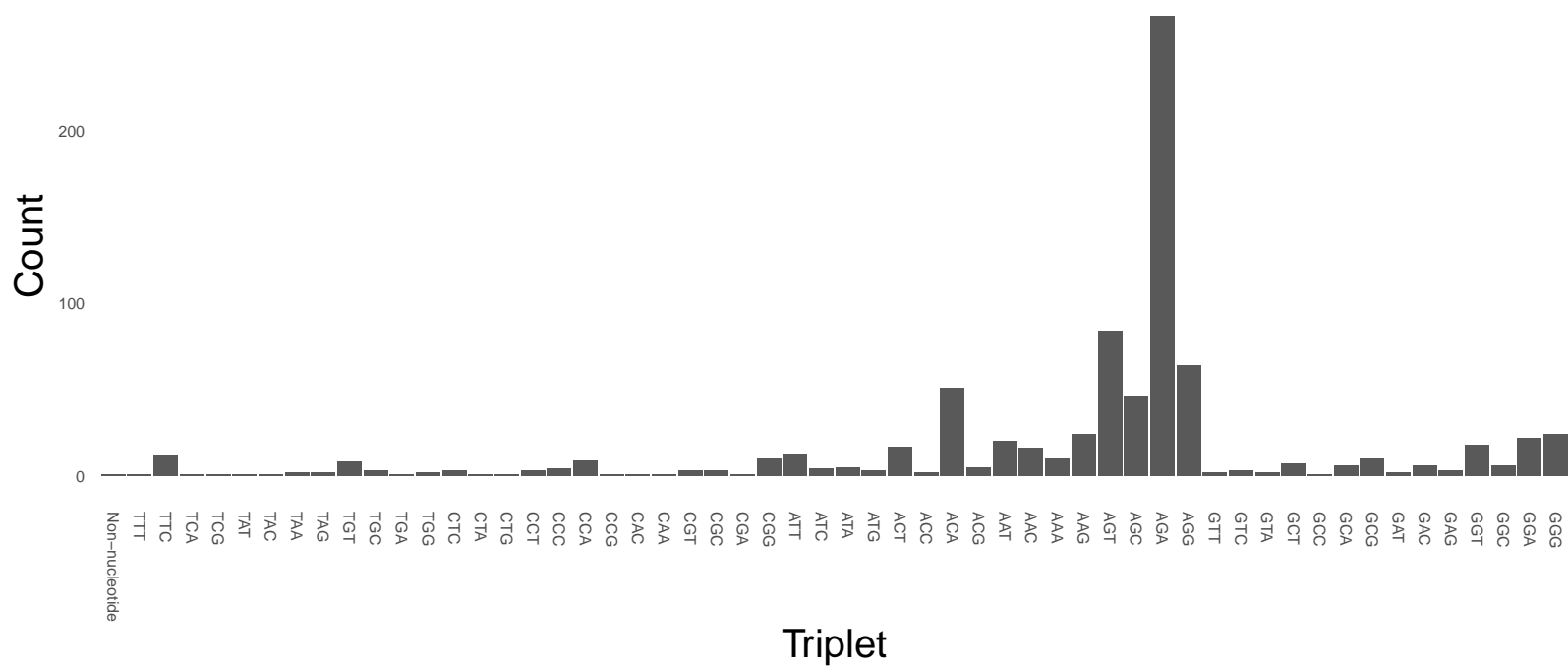
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

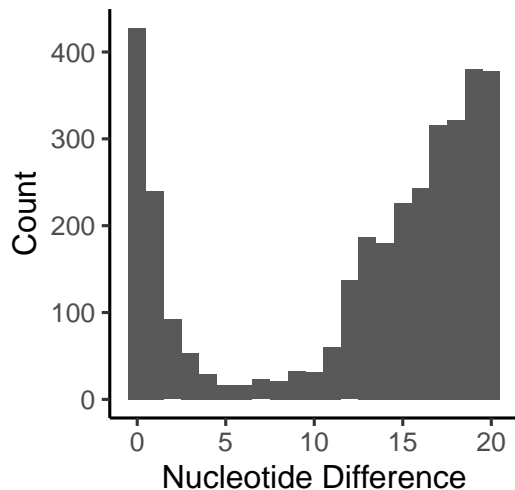


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



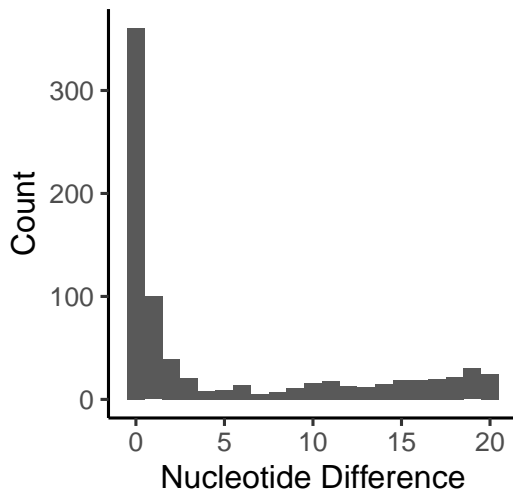
IGHV1-2*02

7791 sequences assigned
428 (5.5%) exact matches, in which:
425 unique CDR3
6 unique J



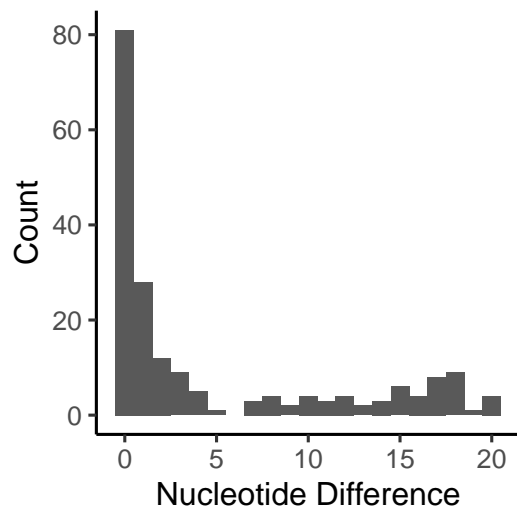
IGHV1-18*01

1288 sequences assigned
361 (28%) exact matches, in which:
361 unique CDR3
6 unique J



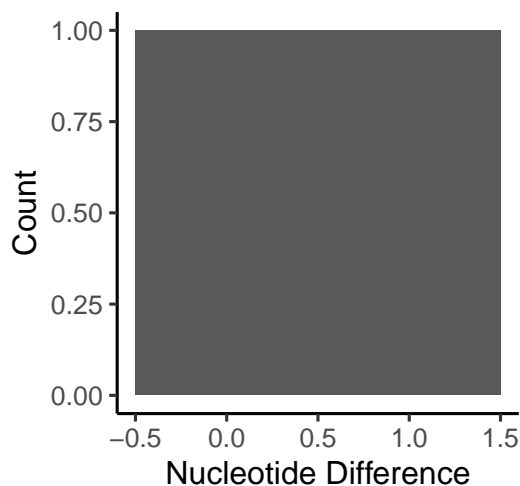
IGHV1-46*01

383 sequences assigned
81 (21.1%) exact matches, in which:
80 unique CDR3
6 unique J



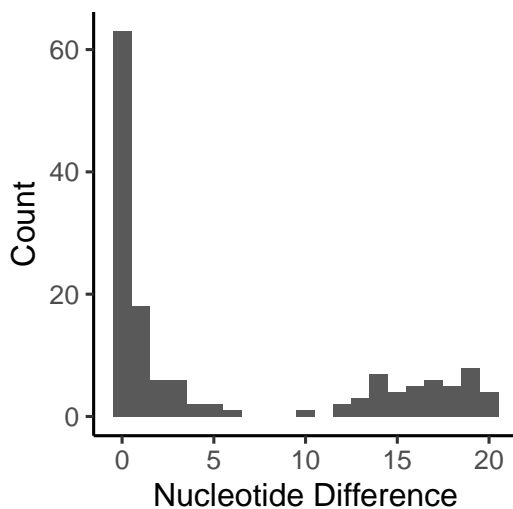
IGHV1-3*02

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



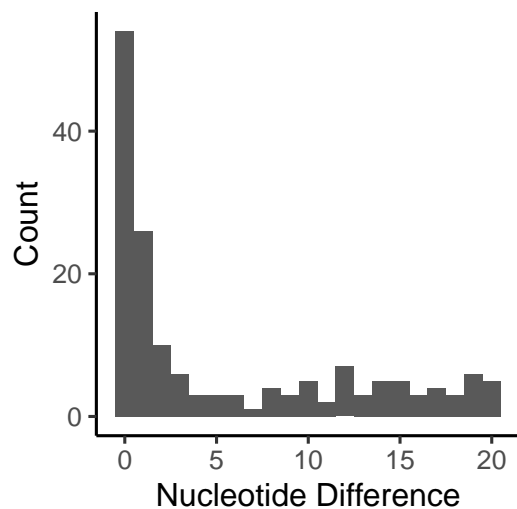
IGHV1-24*01

227 sequences assigned
63 (27.8%) exact matches, in which:
63 unique CDR3
6 unique J



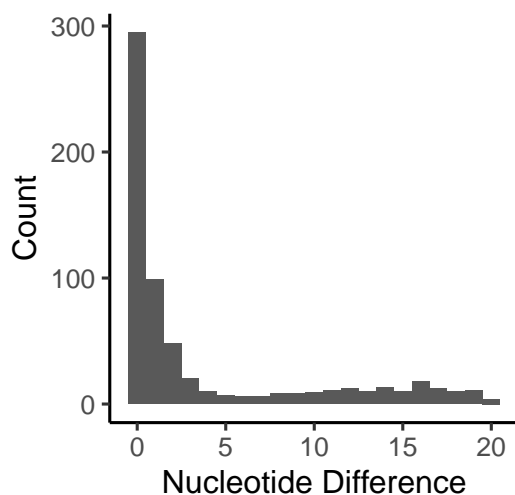
IGHV1-46*03

245 sequences assigned
54 (22%) exact matches, in which:
54 unique CDR3
5 unique J



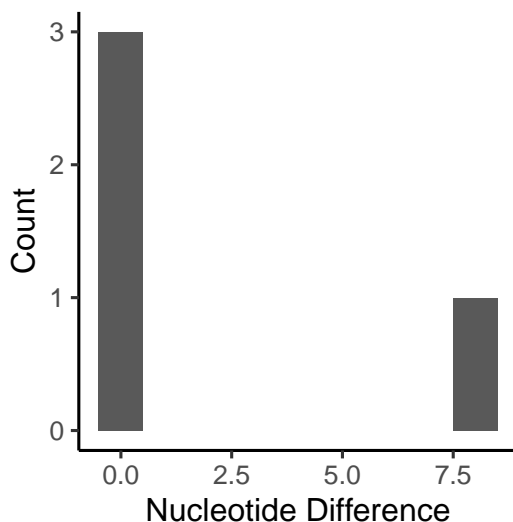
IGHV1-8*01

1550 sequences assigned
295 (19%) exact matches, in which:
295 unique CDR3
6 unique J



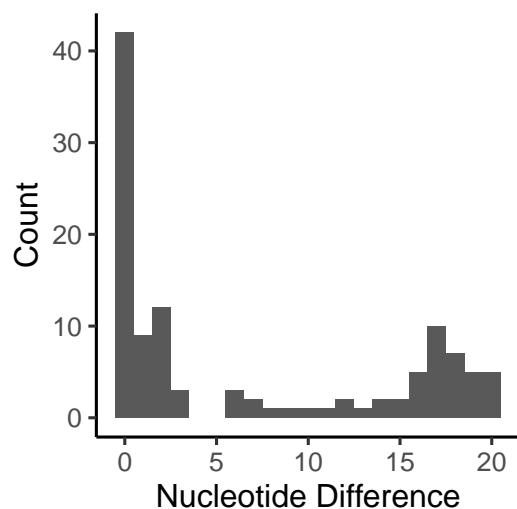
IGHV1-45*02

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



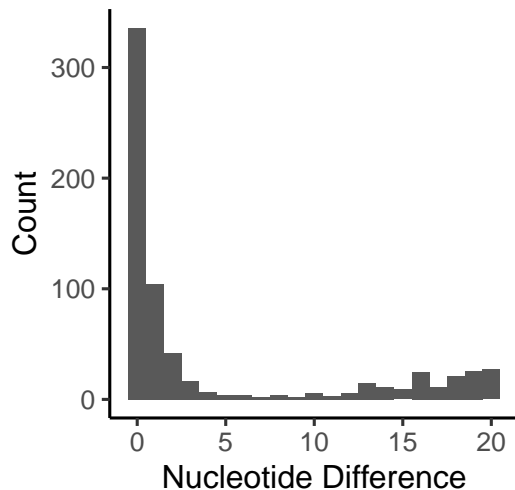
IGHV1-58*01

303 sequences assigned
42 (13.9%) exact matches, in which:
42 unique CDR3
5 unique J



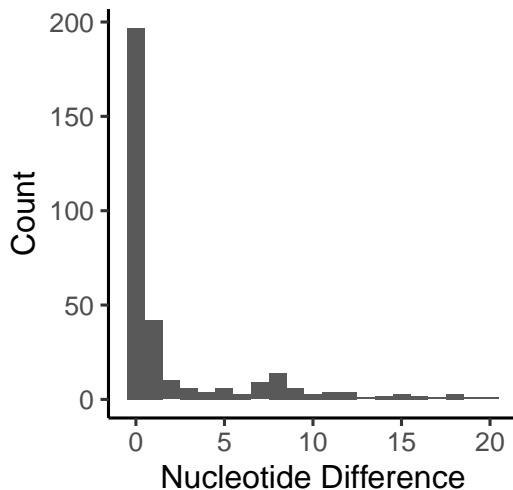
IGHV1–69*04

1353 sequences assigned
336 (24.8%) exact matches, in which:
333 unique CDR3
6 unique J



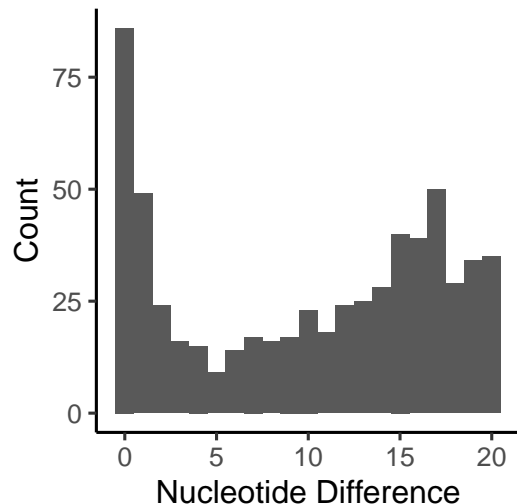
IGHV2–26*01

368 sequences assigned
197 (53.5%) exact matches, in which:
197 unique CDR3
6 unique J



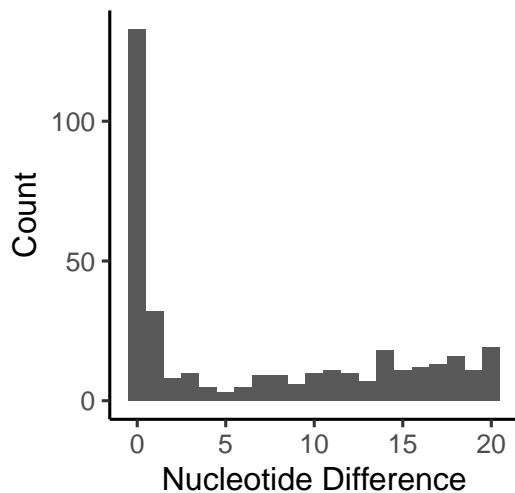
IGHV3–7*01

1055 sequences assigned
86 (8.2%) exact matches, in which:
86 unique CDR3
6 unique J



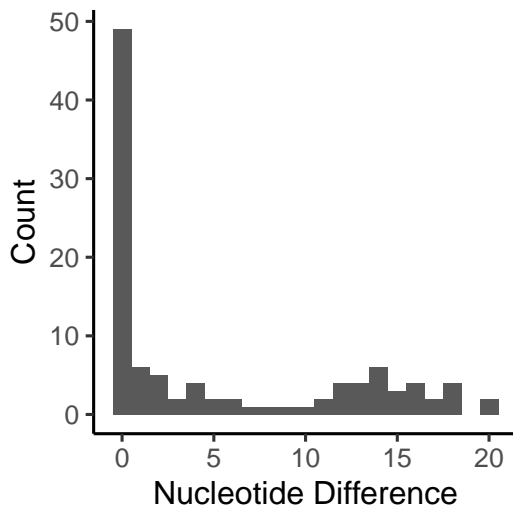
IGHV2–5*01

623 sequences assigned
133 (21.3%) exact matches, in which:
133 unique CDR3
6 unique J



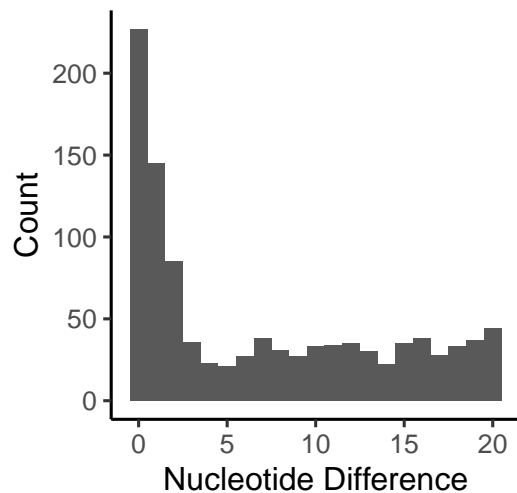
IGHV2–70*01

150 sequences assigned
49 (32.7%) exact matches, in which:
49 unique CDR3
5 unique J



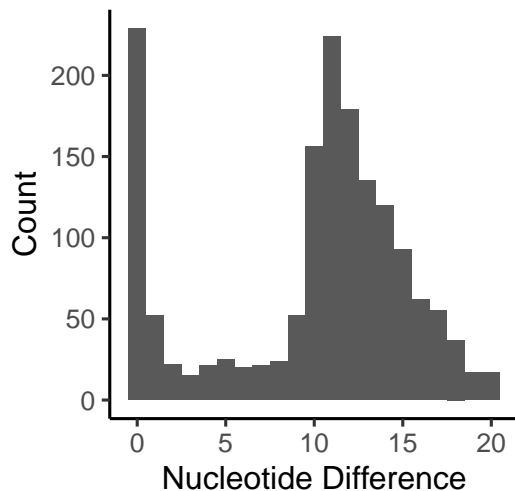
IGHV3–9*01

1769 sequences assigned
227 (12.8%) exact matches, in which:
226 unique CDR3
6 unique J



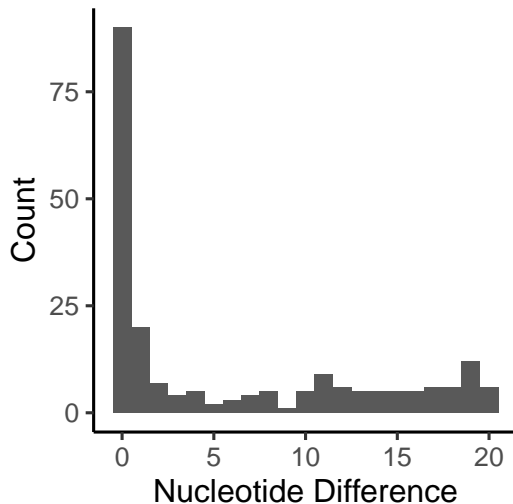
IGHV2–5*02

1867 sequences assigned
229 (12.3%) exact matches, in which:
228 unique CDR3
6 unique J



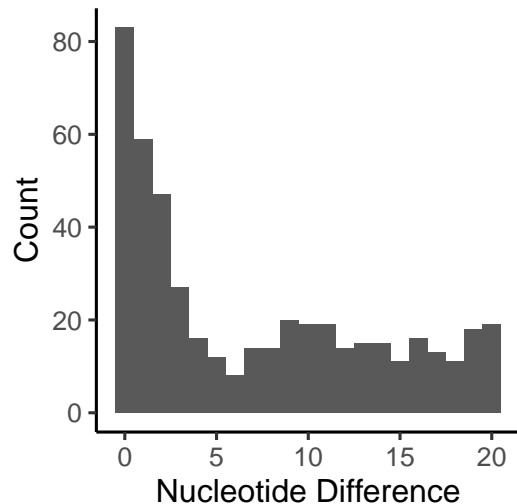
IGHV2–70*15

337 sequences assigned
90 (26.7%) exact matches, in which:
90 unique CDR3
5 unique J



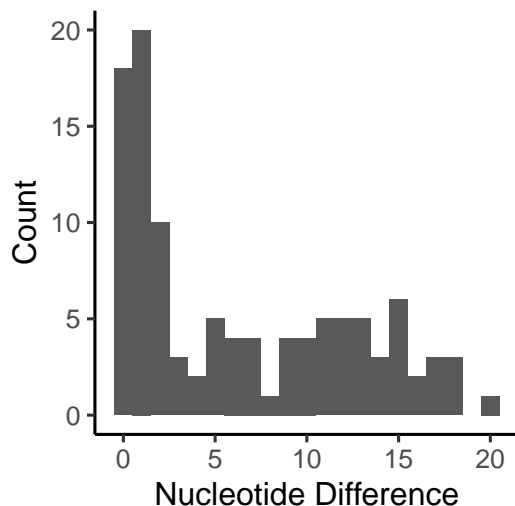
IGHV3–11*01

1204 sequences assigned
83 (6.9%) exact matches, in which:
83 unique CDR3
4 unique J



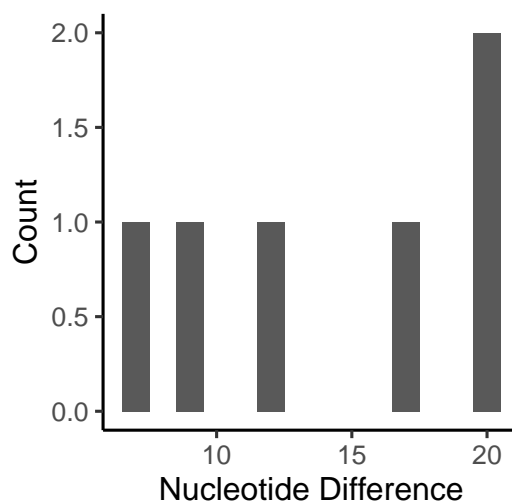
IGHV3-13*01

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



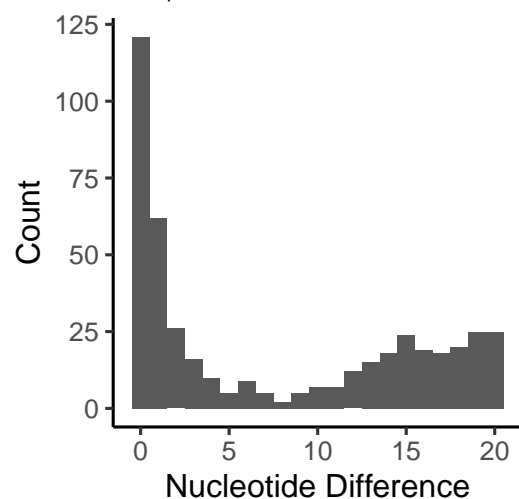
IGHV3-20*04

32 sequences assigned
No exact matches.



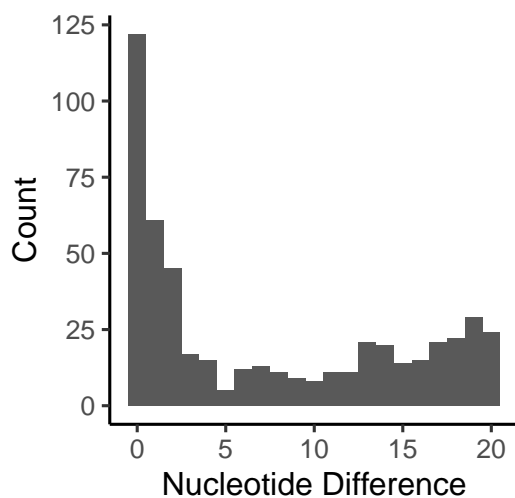
IGHV3-30*01

735 sequences assigned
121 (16.5%) exact matches, in which:
121 unique CDR3
6 unique J



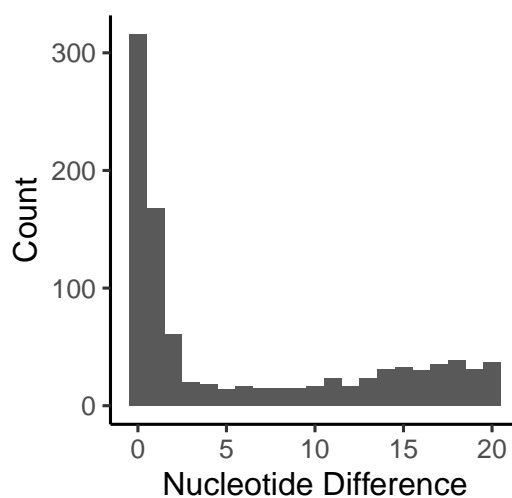
IGHV3-15*01

1377 sequences assigned
122 (8.9%) exact matches, in which:
121 unique CDR3
6 unique J



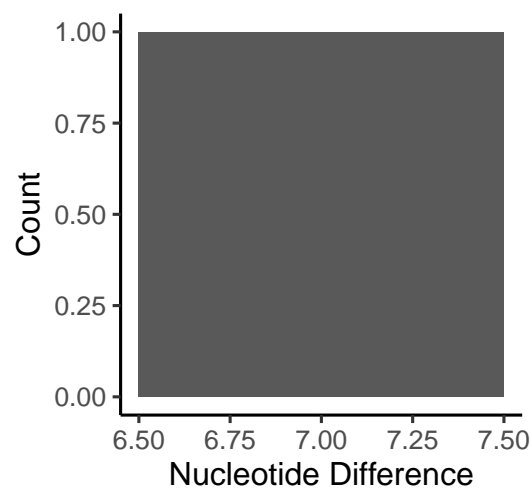
IGHV3-21*01

1633 sequences assigned
316 (19.4%) exact matches, in which:
312 unique CDR3
6 unique J



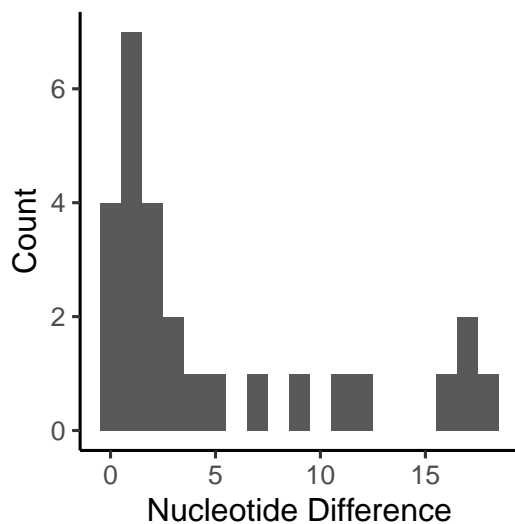
IGHV3-30-3*01

25 sequences assigned
No exact matches.



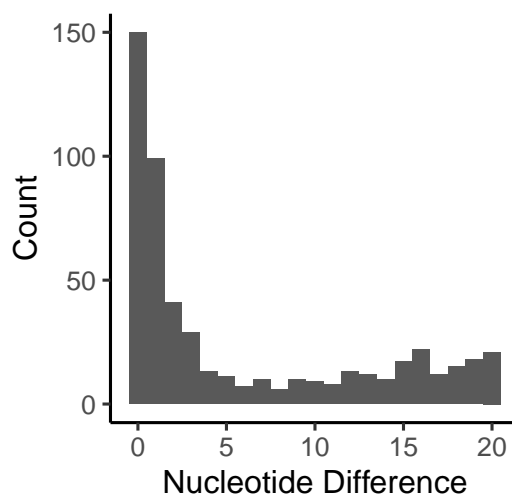
IGHV3-20*01

34 sequences assigned
4 (11.8%) exact matches, in which:
4 unique CDR3
3 unique J



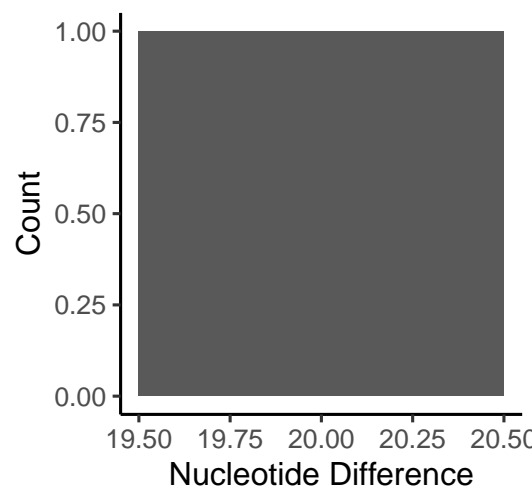
IGHV3-23*04

1329 sequences assigned
150 (11.3%) exact matches, in which:
150 unique CDR3
6 unique J



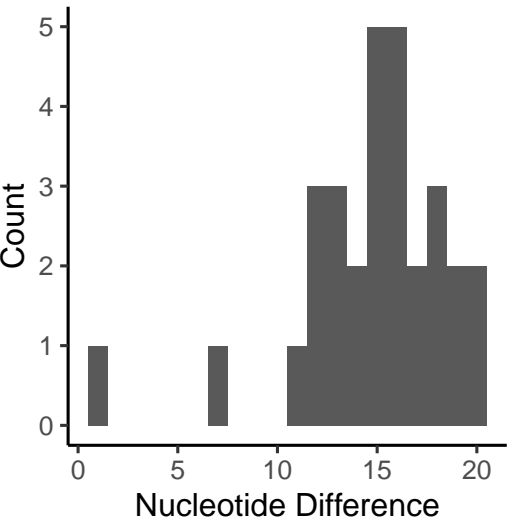
IGHV3-30-3*02

208 sequences assigned
No exact matches.



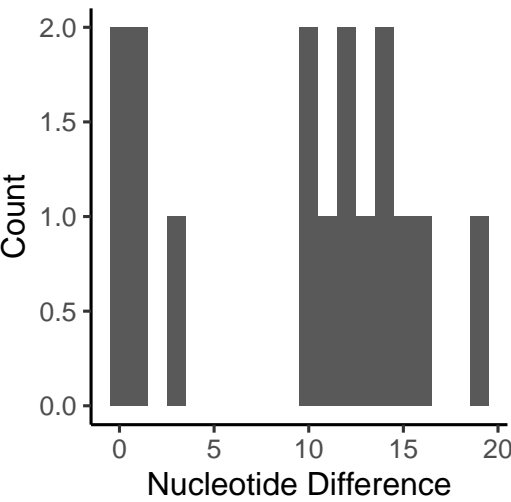
IGHV3-30-3*03

154 sequences assigned
No exact matches.



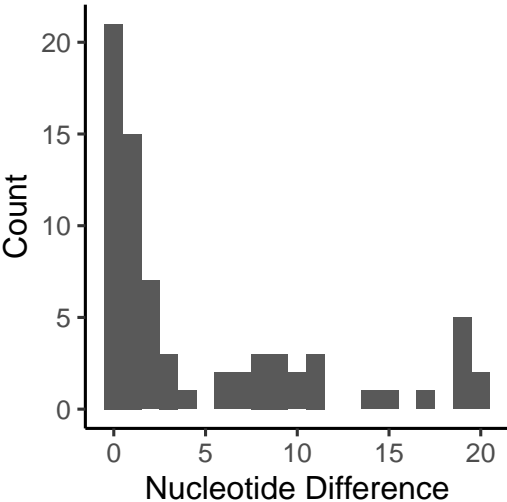
IGHV3-43*01

32 sequences assigned
2 (6.2%) exact matches, in which:
2 unique CDR3
1 unique J



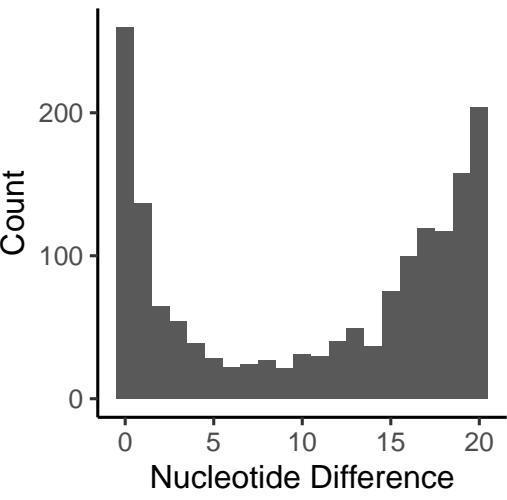
IGHV3-49*03

145 sequences assigned
21 (14.5%) exact matches, in which:
21 unique CDR3
5 unique J



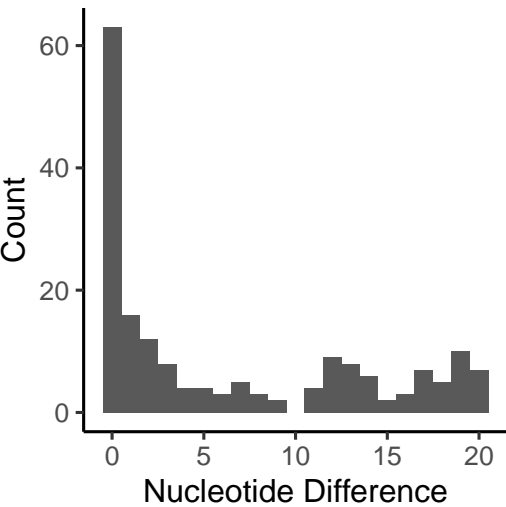
IGHV3-33*01

4682 sequences assigned
260 (5.6%) exact matches, in which:
260 unique CDR3
6 unique J



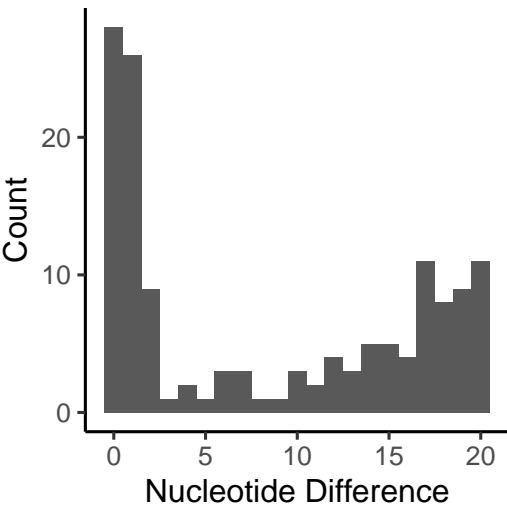
IGHV3-48*01

356 sequences assigned
63 (17.7%) exact matches, in which:
63 unique CDR3
4 unique J



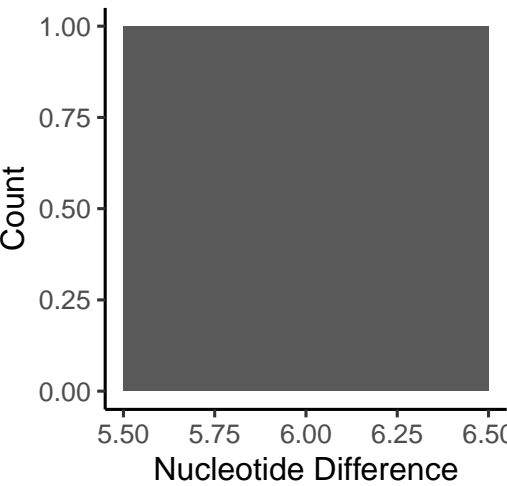
IGHV3-49*04

432 sequences assigned
28 (6.5%) exact matches, in which:
28 unique CDR3
4 unique J



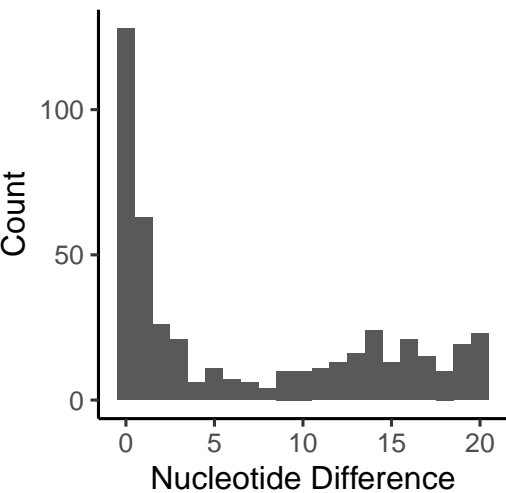
IGHV3-35*01

1 sequences assigned
No exact matches.



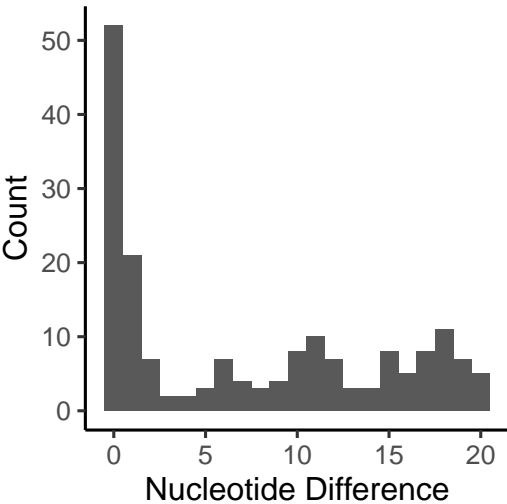
IGHV3-48*03

974 sequences assigned
128 (13.1%) exact matches, in which:
128 unique CDR3
5 unique J



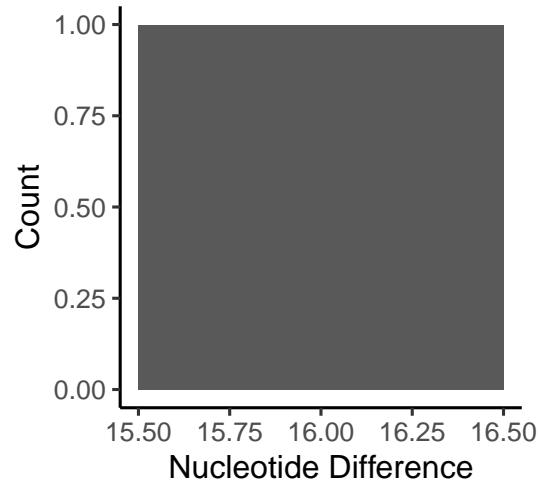
IGHV3-53*02

294 sequences assigned
52 (17.7%) exact matches, in which:
52 unique CDR3
5 unique J



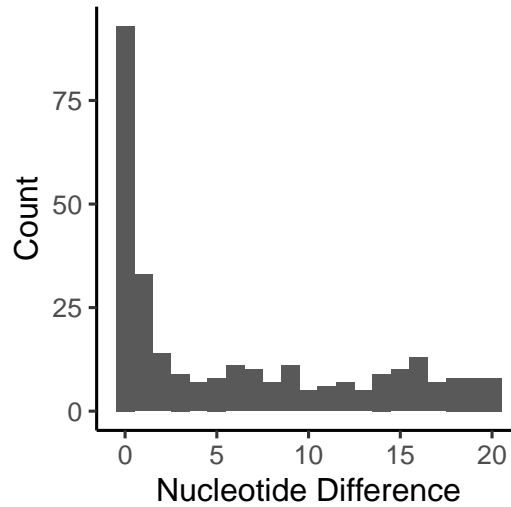
IGHV3-62*03

1 sequences assigned
No exact matches.



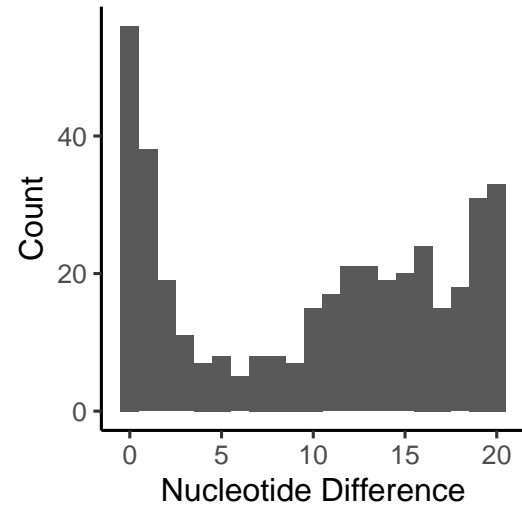
IGHV3-66*01

545 sequences assigned
93 (17.1%) exact matches, in which:
93 unique CDR3
6 unique J



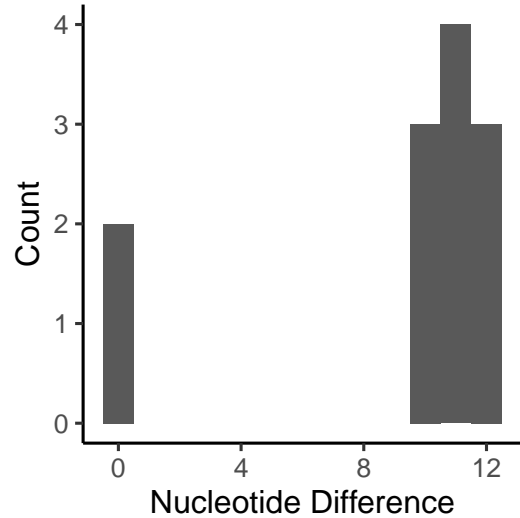
IGHV3-74*01

898 sequences assigned
56 (6.2%) exact matches, in which:
56 unique CDR3
5 unique J



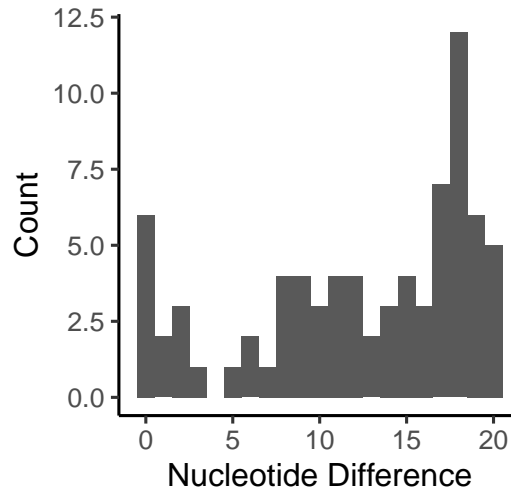
IGHV3-64*02

12 sequences assigned
2 (16.7%) exact matches, in which:
2 unique CDR3
2 unique J



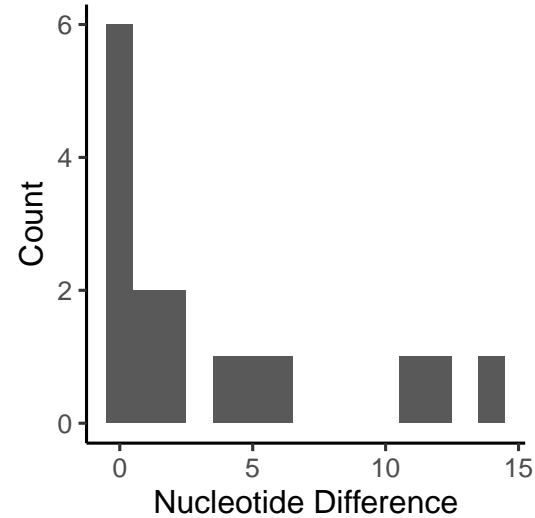
IGHV3-72*01

167 sequences assigned
6 (3.6%) exact matches, in which:
6 unique CDR3
4 unique J



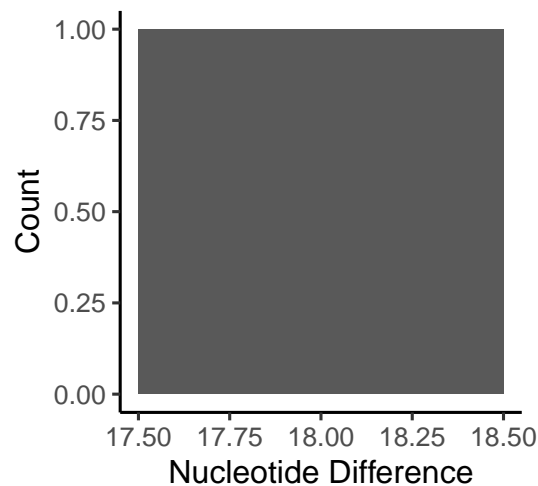
IGHV3-43D*04

22 sequences assigned
6 (27.3%) exact matches, in which:
6 unique CDR3
2 unique J



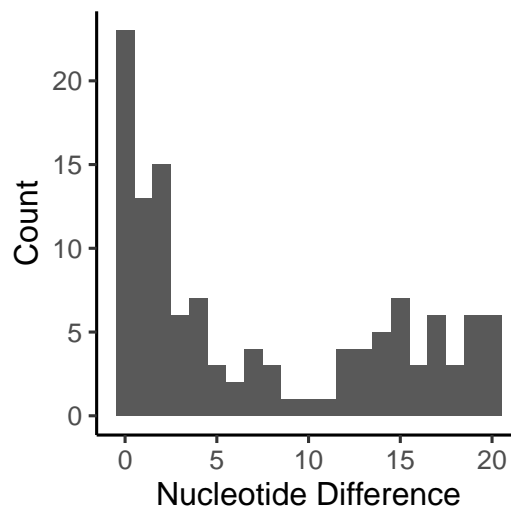
IGHV3-64*07

4 sequences assigned
No exact matches.



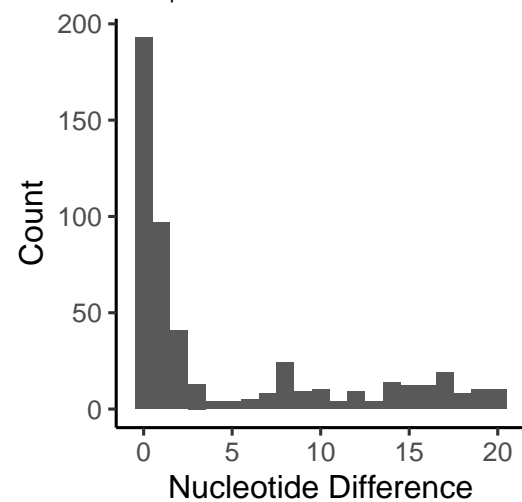
IGHV3-73*02

239 sequences assigned
23 (9.6%) exact matches, in which:
23 unique CDR3
3 unique J



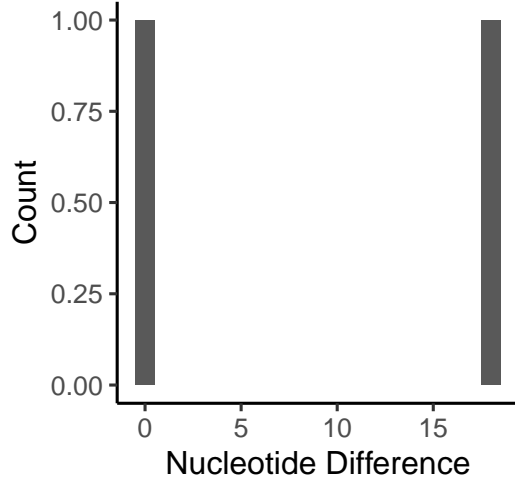
IGHV4-4*07

885 sequences assigned
193 (21.8%) exact matches, in which:
191 unique CDR3
6 unique J



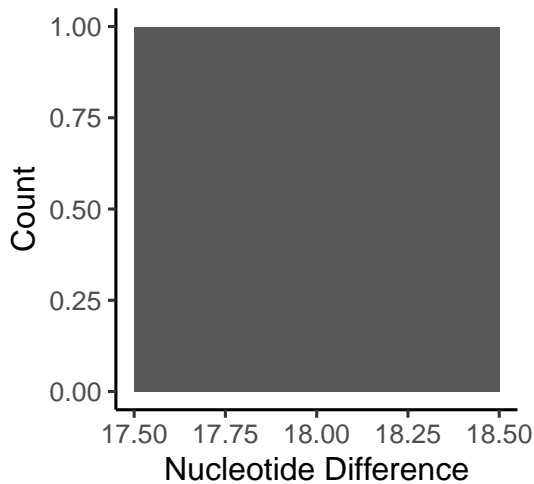
IGHV4-28*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



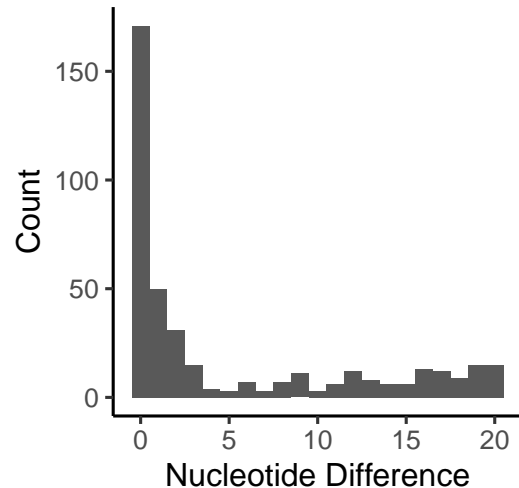
IGHV4-30-4*08

8 sequences assigned
No exact matches.



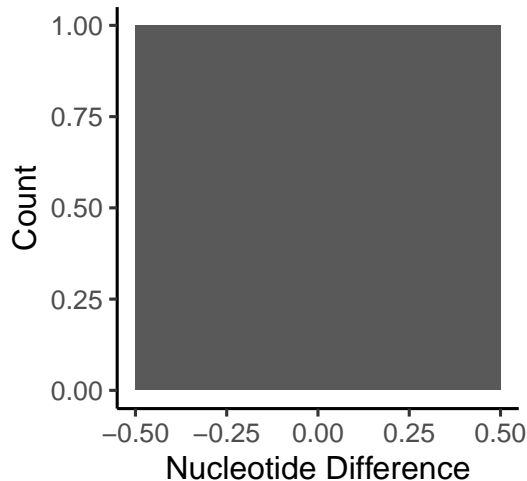
IGHV4-38-2*02_A70G

820 sequences assigned
171 (20.9%) exact matches, in which:
171 unique CDR3
6 unique J



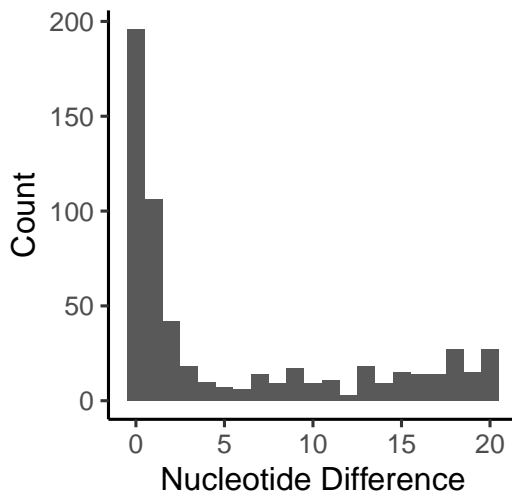
IGHV4-28*02

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



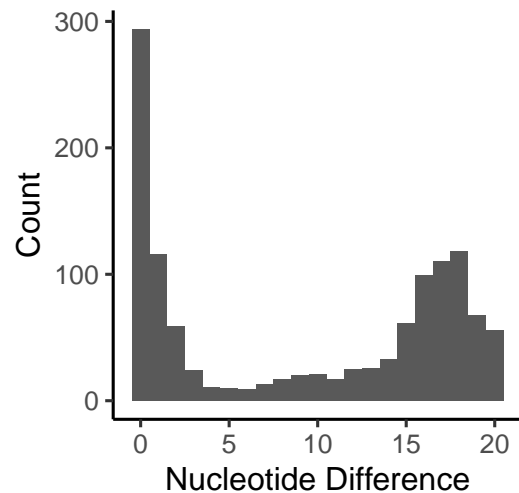
IGHV4-31*03

1400 sequences assigned
196 (14%) exact matches, in which:
195 unique CDR3
6 unique J



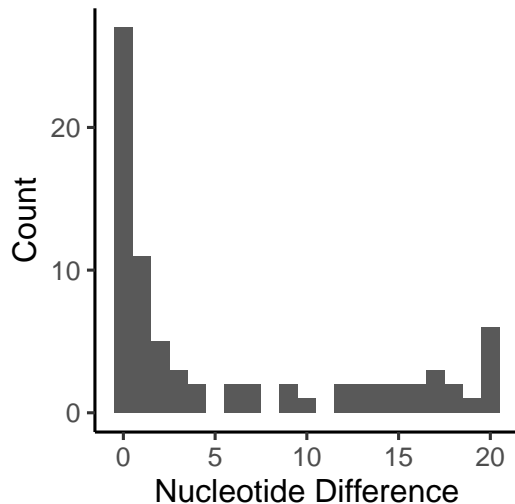
IGHV4-39*01

2110 sequences assigned
294 (13.9%) exact matches, in which:
293 unique CDR3
6 unique J



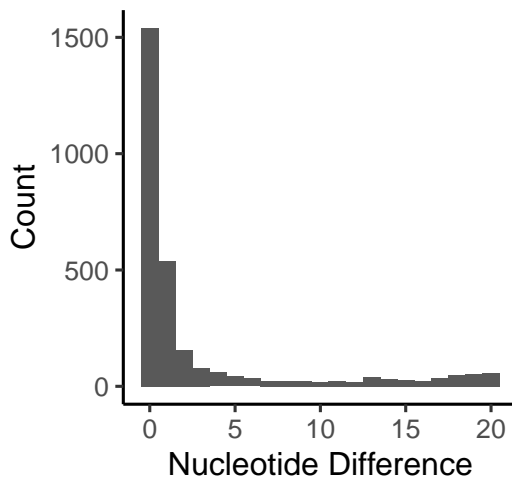
IGHV4-30-2*01

240 sequences assigned
27 (11.2%) exact matches, in which:
27 unique CDR3
5 unique J



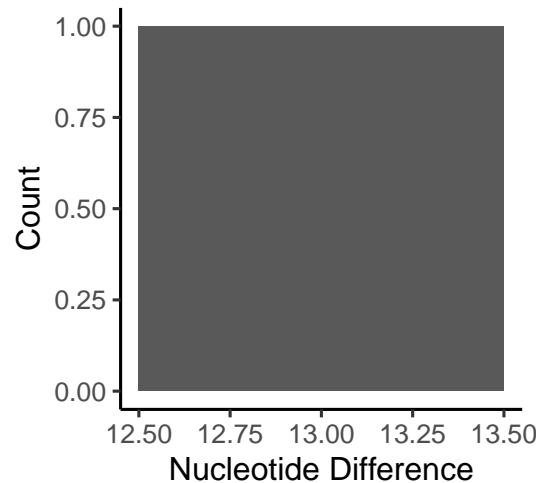
IGHV4-34*01

4192 sequences assigned
1540 (36.7%) exact matches, in which:
1535 unique CDR3
6 unique J



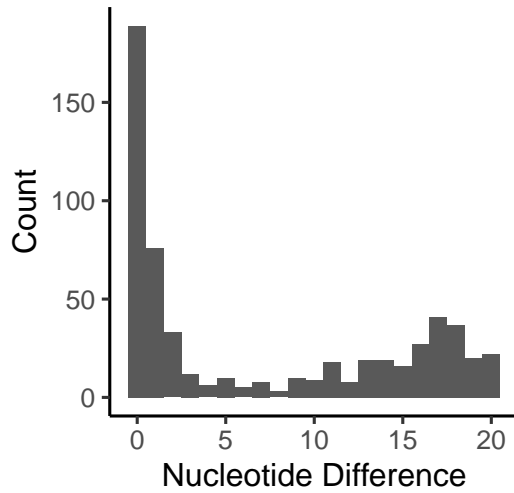
IGHV4-55*08

1 sequences assigned
No exact matches.



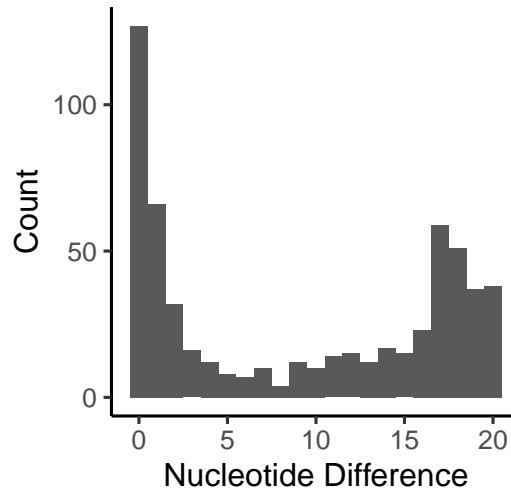
IGHV4–59*01

1185 sequences assigned
189 (15.9%) exact matches, in which:
188 unique CDR3
6 unique J



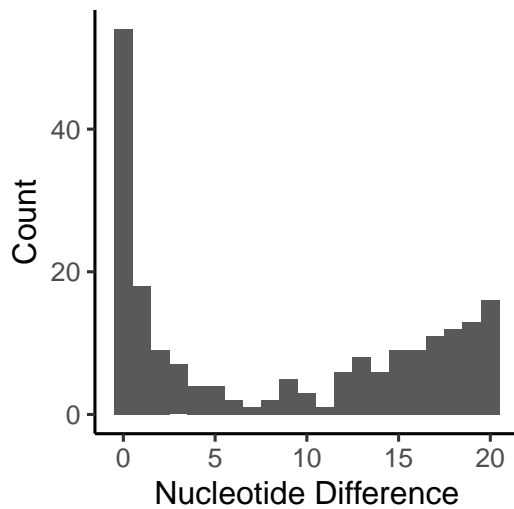
IGHV5–51*01

924 sequences assigned
127 (13.7%) exact matches, in which:
127 unique CDR3
6 unique J



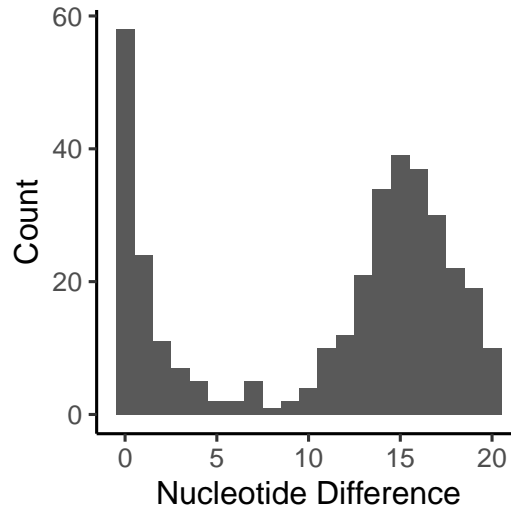
IGHV4–61*01

371 sequences assigned
54 (14.6%) exact matches, in which:
54 unique CDR3
5 unique J



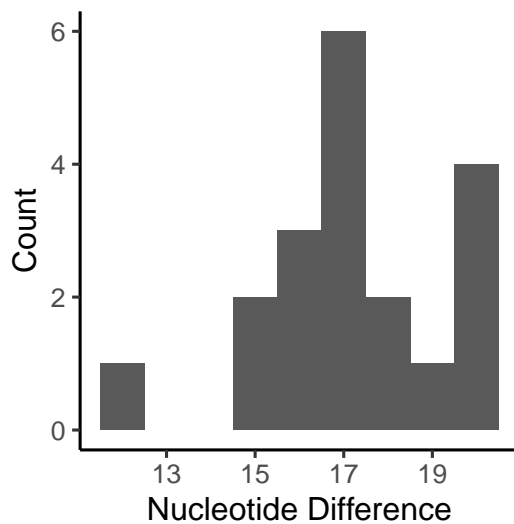
IGHV5–51*03

660 sequences assigned
58 (8.8%) exact matches, in which:
58 unique CDR3
6 unique J



IGHV4–61*08

56 sequences assigned
No exact matches.



IGHV6–1*01

511 sequences assigned
52 (10.2%) exact matches, in which:
52 unique CDR3
5 unique J

