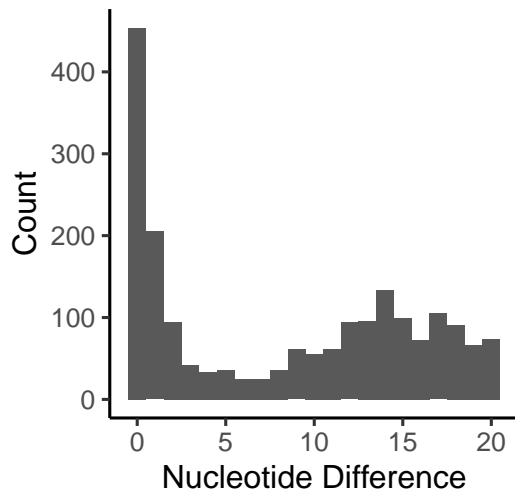


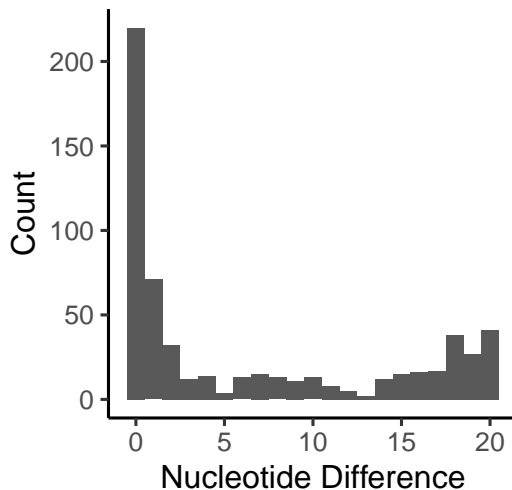
IGHV1-2*02

3059 sequences assigned
454 (14.8%) exact matches, in which:
441 unique CDR3
7 unique J



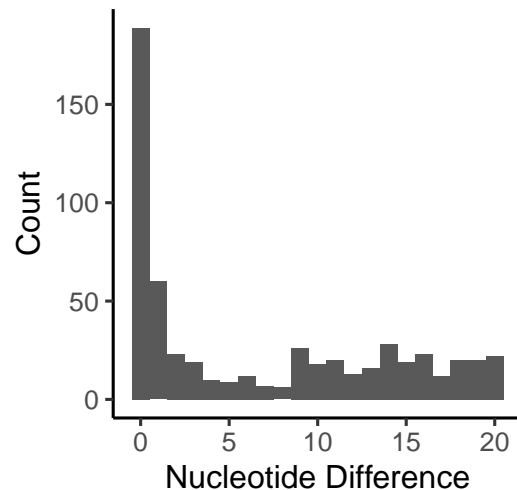
IGHV1-18*04

1116 sequences assigned
220 (19.7%) exact matches, in which:
217 unique CDR3
6 unique J



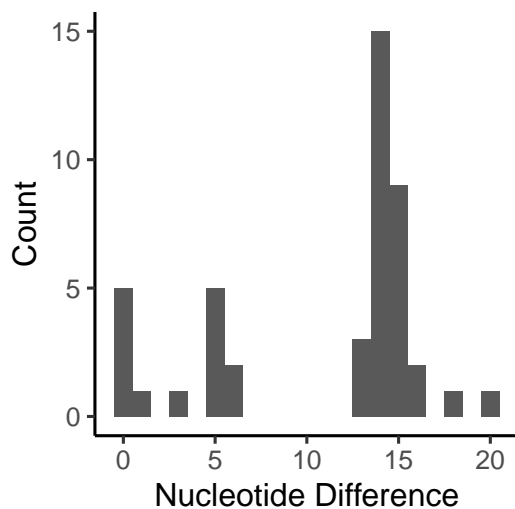
IGHV1-46*01

957 sequences assigned
189 (19.7%) exact matches, in which:
180 unique CDR3
5 unique J



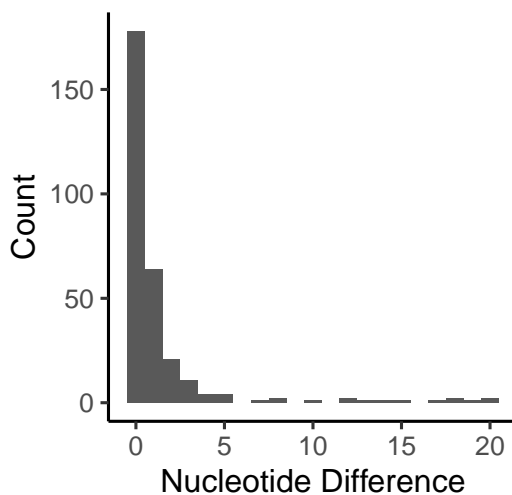
IGHV1-3*02

47 sequences assigned
5 (10.6%) exact matches, in which:
5 unique CDR3
3 unique J



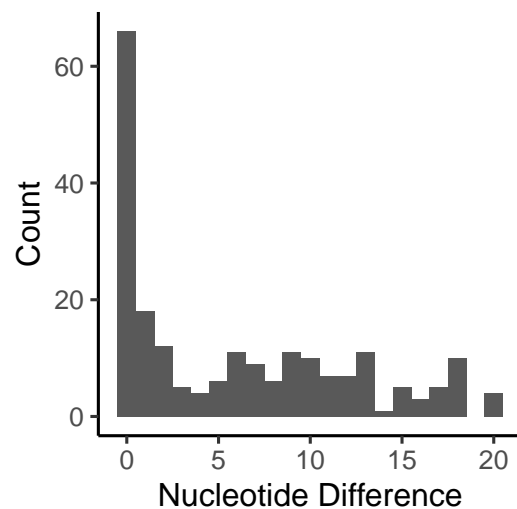
IGHV1-24*01

350 sequences assigned
178 (50.9%) exact matches, in which:
174 unique CDR3
7 unique J



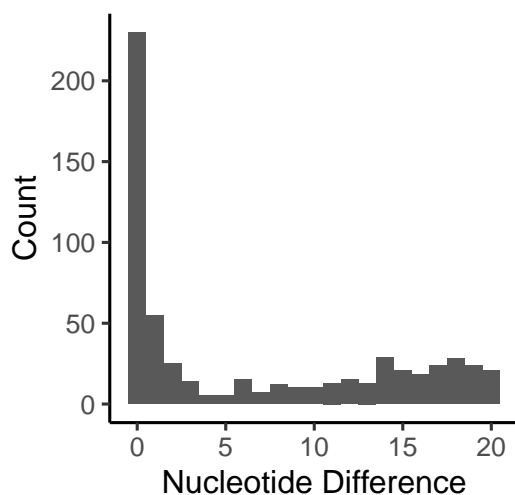
IGHV1-46*03

303 sequences assigned
66 (21.8%) exact matches, in which:
64 unique CDR3
5 unique J



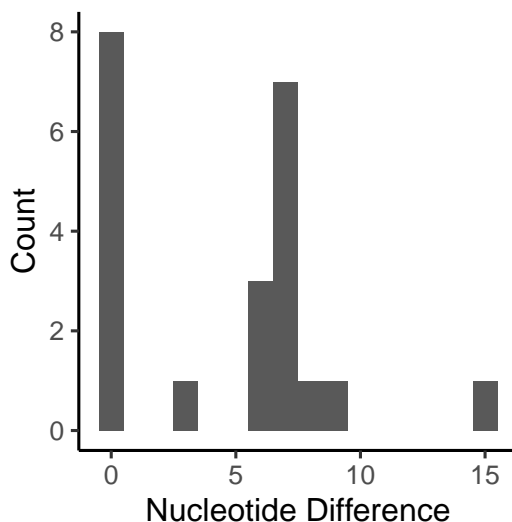
IGHV1-18*01

1004 sequences assigned
230 (22.9%) exact matches, in which:
222 unique CDR3
6 unique J



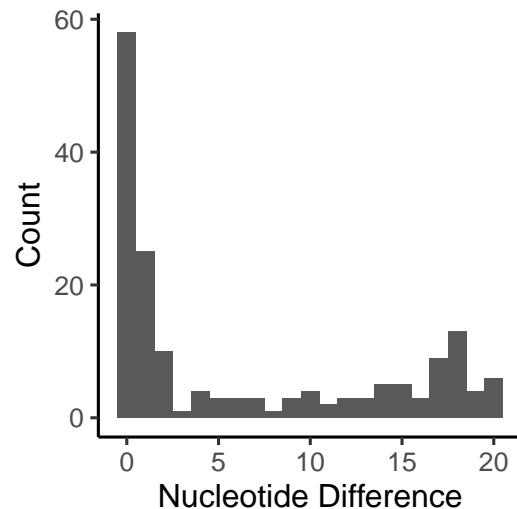
IGHV1-45*02

22 sequences assigned
8 (36.4%) exact matches, in which:
8 unique CDR3
4 unique J



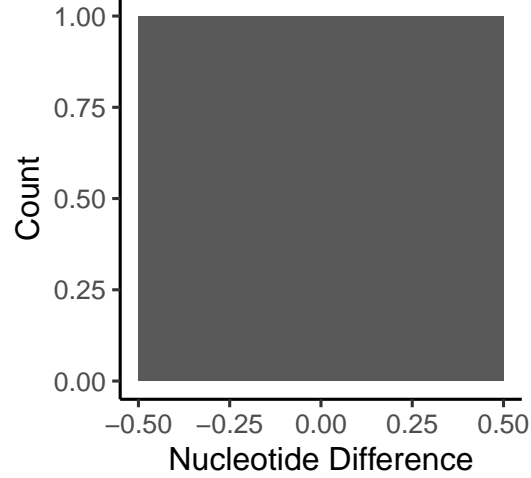
IGHV1-58*01

190 sequences assigned
58 (30.5%) exact matches, in which:
57 unique CDR3
6 unique J



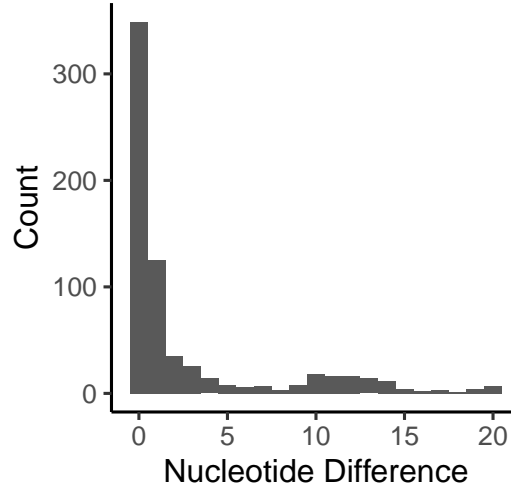
IGHV1-68*02

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



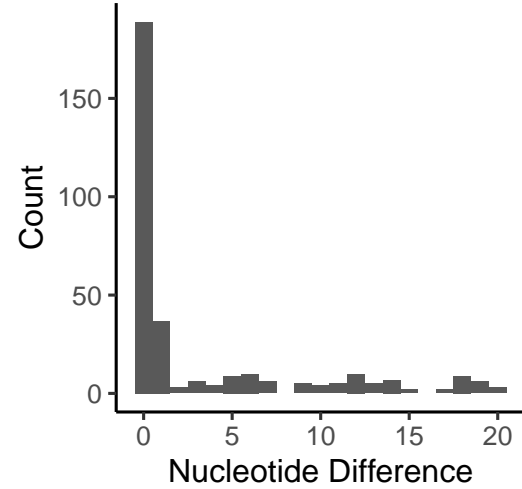
IGHV1-69*06

793 sequences assigned
349 (44%) exact matches, in which:
331 unique CDR3
7 unique J



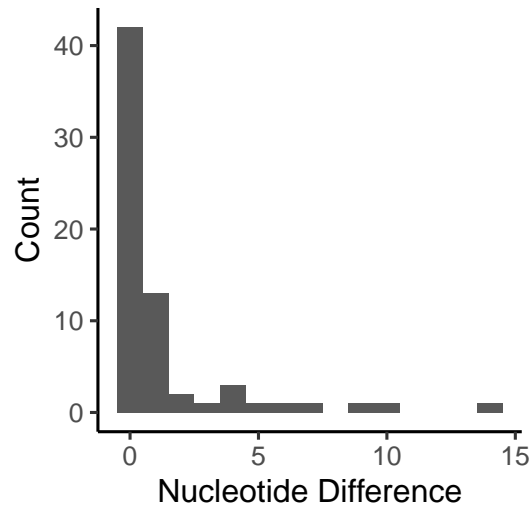
IGHV2-70*01

361 sequences assigned
189 (52.4%) exact matches, in which:
186 unique CDR3
6 unique J



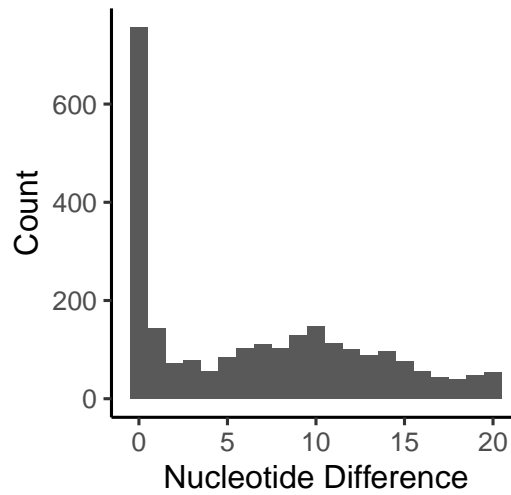
IGHV1-69-2*01

84 sequences assigned
42 (50%) exact matches, in which:
40 unique CDR3
4 unique J



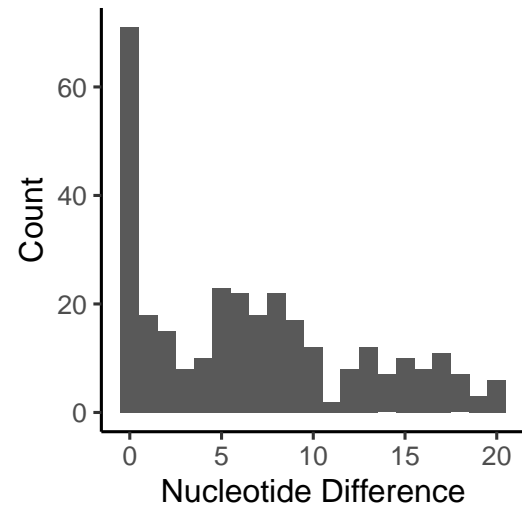
IGHV2-5*02

3179 sequences assigned
757 (23.8%) exact matches, in which:
696 unique CDR3
7 unique J



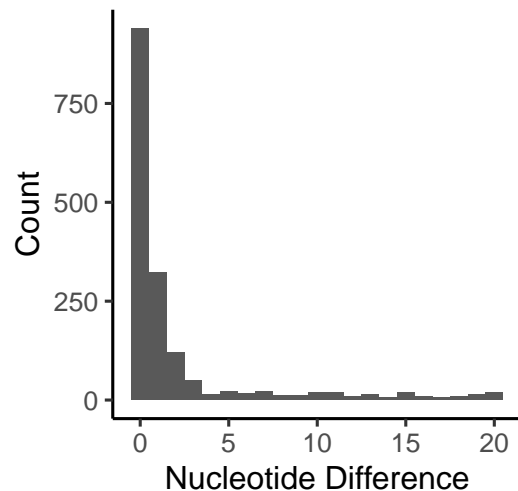
IGHV2-70*04

352 sequences assigned
71 (20.2%) exact matches, in which:
66 unique CDR3
5 unique J



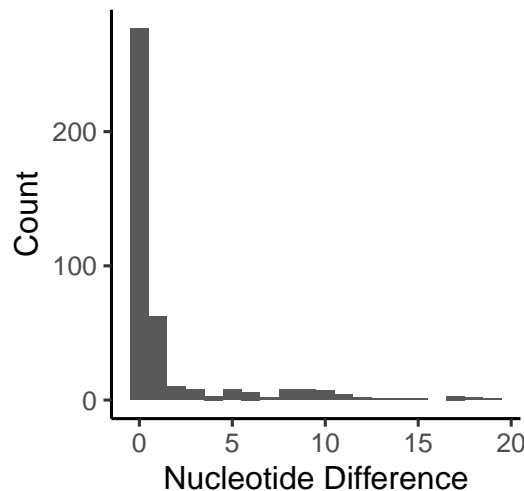
IGHV1-69*01

2156 sequences assigned
940 (43.6%) exact matches, in which:
894 unique CDR3
7 unique J



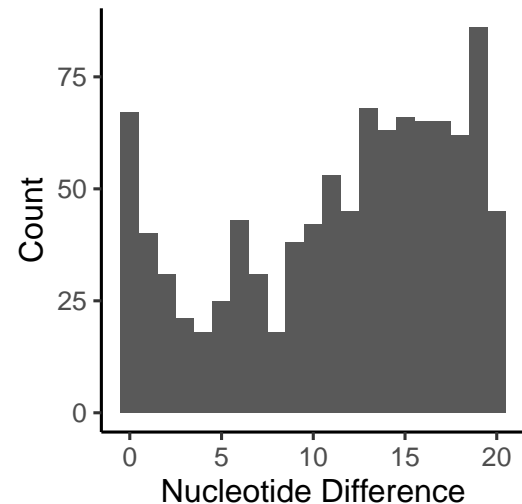
IGHV2-26*01

427 sequences assigned
277 (64.9%) exact matches, in which:
267 unique CDR3
7 unique J



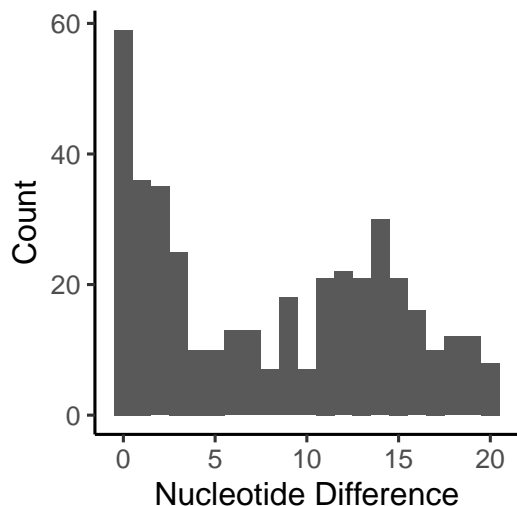
IGHV3-7*04

1454 sequences assigned
67 (4.6%) exact matches, in which:
65 unique CDR3
7 unique J



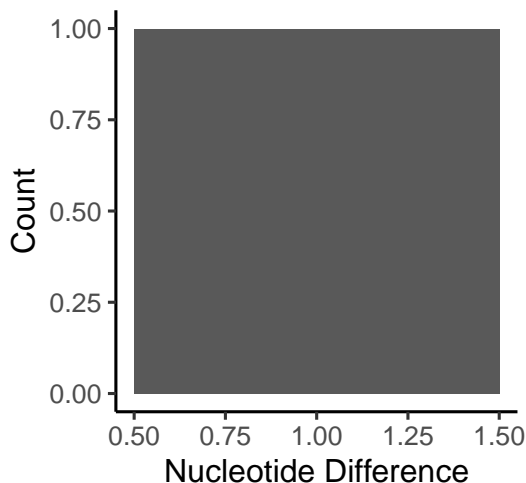
IGHV3-11*06

671 sequences assigned
59 (8.8%) exact matches, in which:
57 unique CDR3
6 unique J



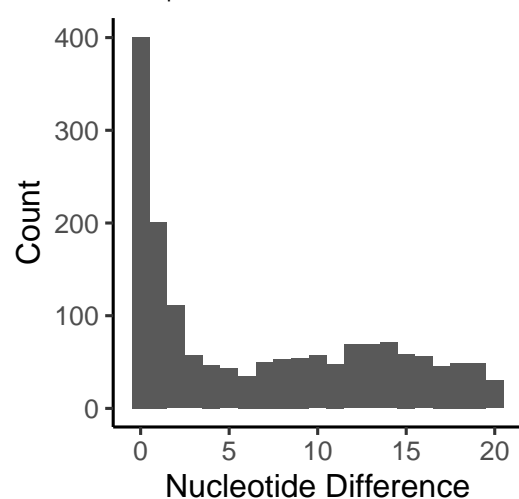
IGHV3-19*01

2 sequences assigned
No exact matches.



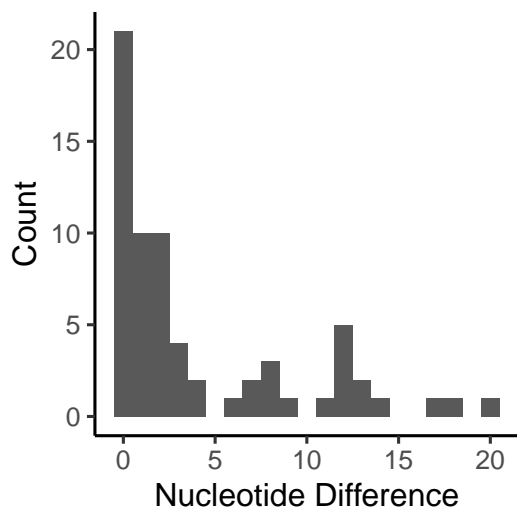
IGHV3-21*01

2319 sequences assigned
401 (17.3%) exact matches, in which:
382 unique CDR3
7 unique J



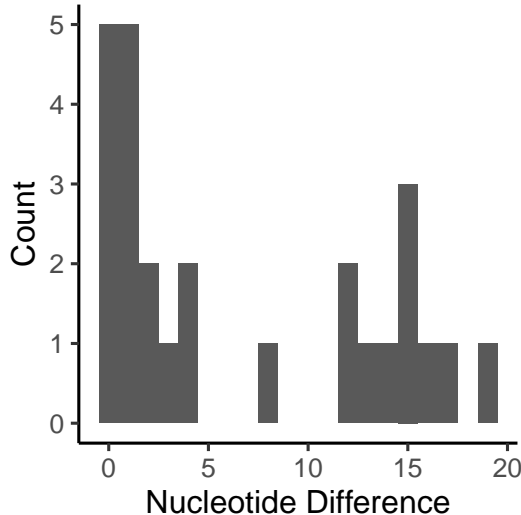
IGHV3-13*05

96 sequences assigned
21 (21.9%) exact matches, in which:
20 unique CDR3
5 unique J



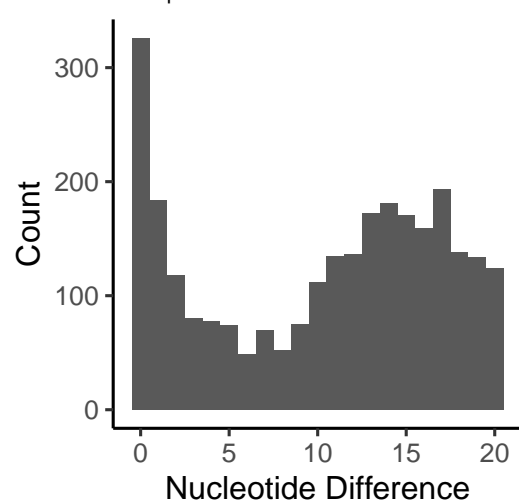
IGHV3-20*01

27 sequences assigned
5 (18.5%) exact matches, in which:
5 unique CDR3
3 unique J



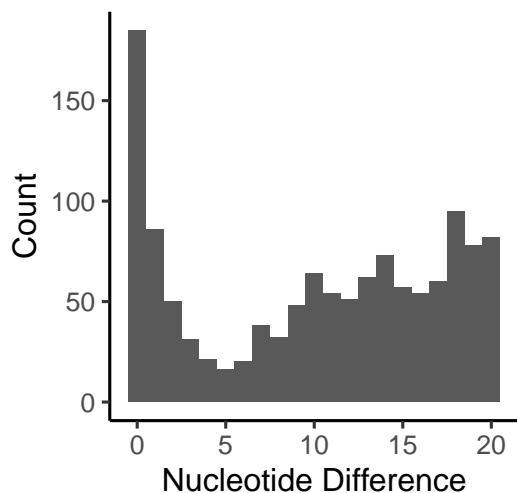
IGHV3-23*01

4440 sequences assigned
326 (7.3%) exact matches, in which:
316 unique CDR3
6 unique J



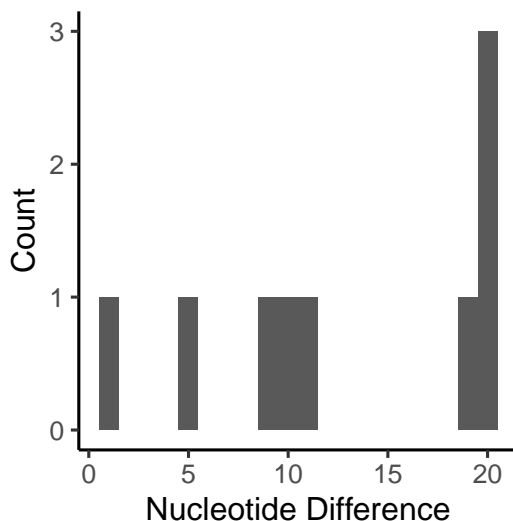
IGHV3-15*01

1949 sequences assigned
185 (9.5%) exact matches, in which:
179 unique CDR3
7 unique J



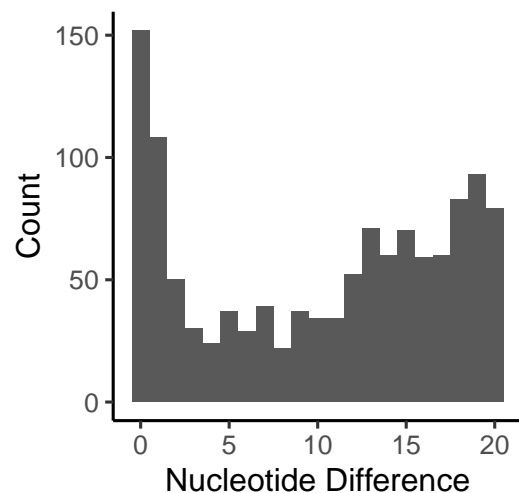
IGHV3-20*04

18 sequences assigned
No exact matches.



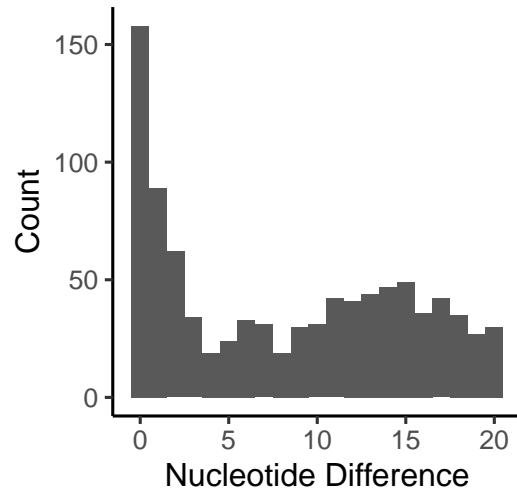
IGHV3-23*04

2015 sequences assigned
152 (7.5%) exact matches, in which:
147 unique CDR3
6 unique J



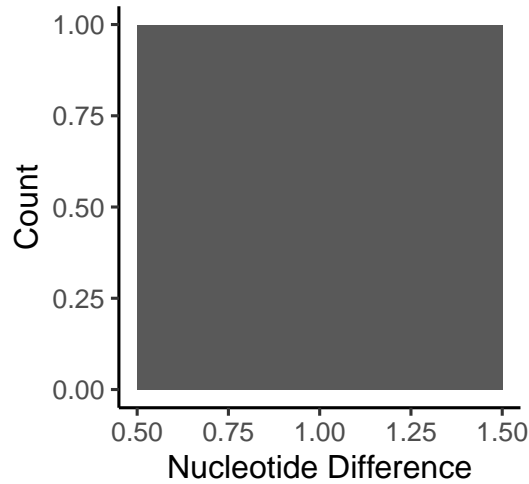
IGHV3-30-3*01

1325 sequences assigned
158 (11.9%) exact matches, in which:
155 unique CDR3
6 unique J



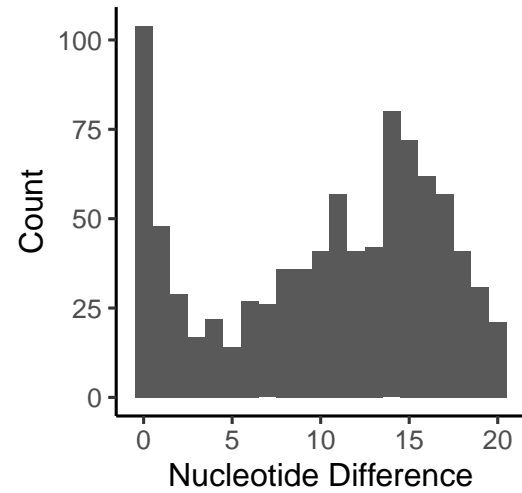
IGHV3-35*01

1 sequences assigned
No exact matches.



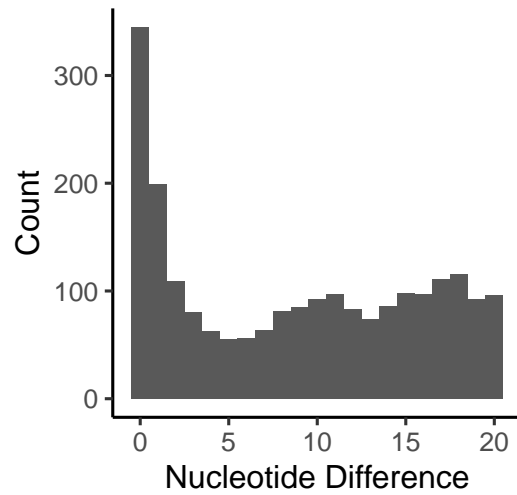
IGHV3-48*02

1191 sequences assigned
104 (8.7%) exact matches, in which:
99 unique CDR3
6 unique J



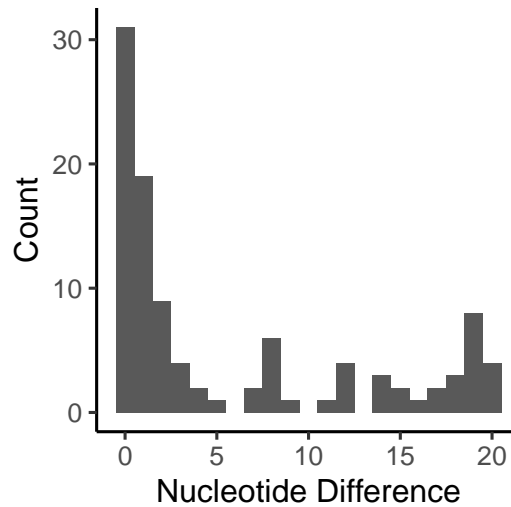
IGHV3-30*18

3191 sequences assigned
345 (10.8%) exact matches, in which:
340 unique CDR3
7 unique J



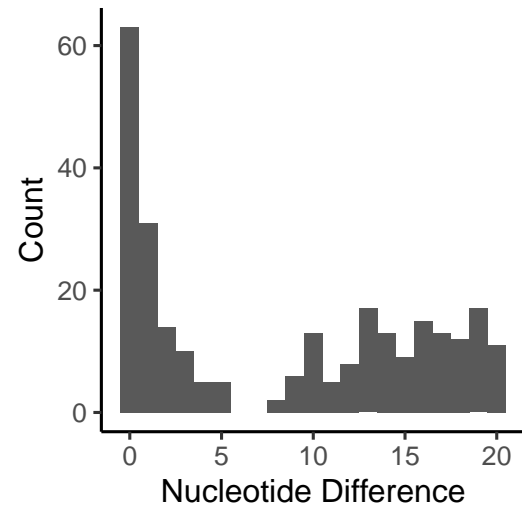
IGHV3-43*01

148 sequences assigned
31 (20.9%) exact matches, in which:
29 unique CDR3
5 unique J



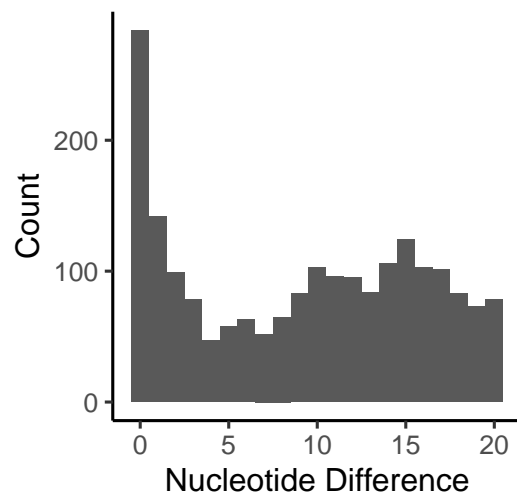
IGHV3-49*05

322 sequences assigned
63 (19.6%) exact matches, in which:
63 unique CDR3
7 unique J



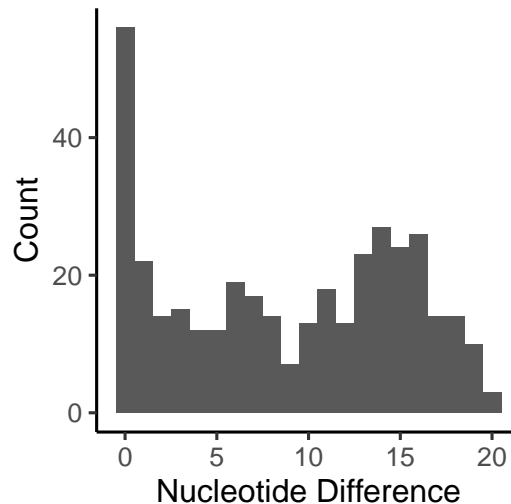
IGHV3-33*01

2751 sequences assigned
284 (10.3%) exact matches, in which:
277 unique CDR3
7 unique J



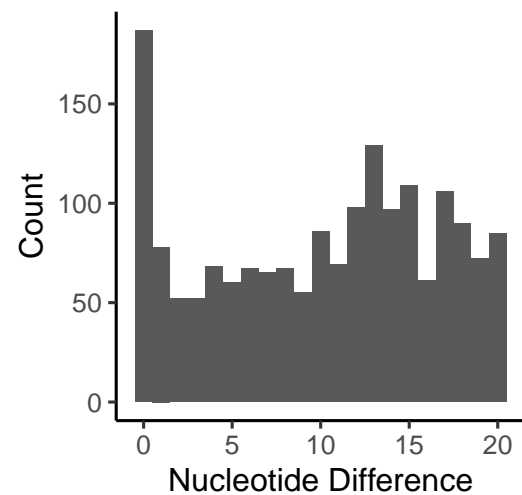
IGHV3-48*01

482 sequences assigned
56 (11.6%) exact matches, in which:
55 unique CDR3
6 unique J



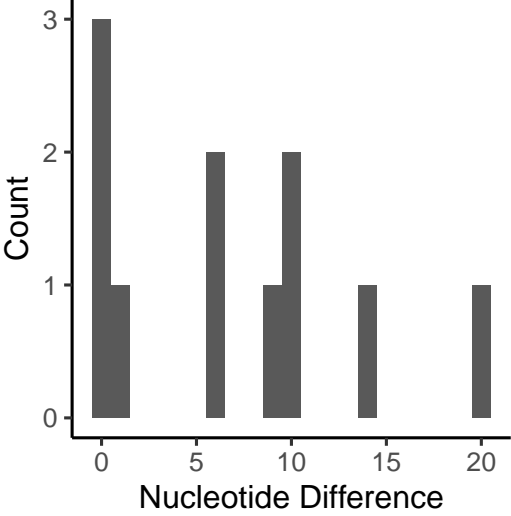
IGHV3-53*01

2543 sequences assigned
187 (7.4%) exact matches, in which:
168 unique CDR3
7 unique J



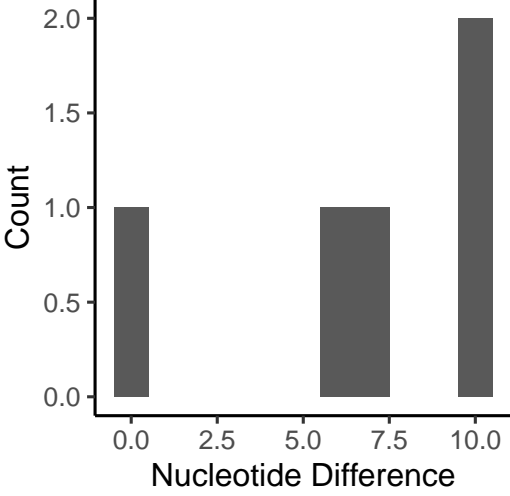
IGHV3-64*02

13 sequences assigned
3 (23.1%) exact matches, in which:
3 unique CDR3
2 unique J



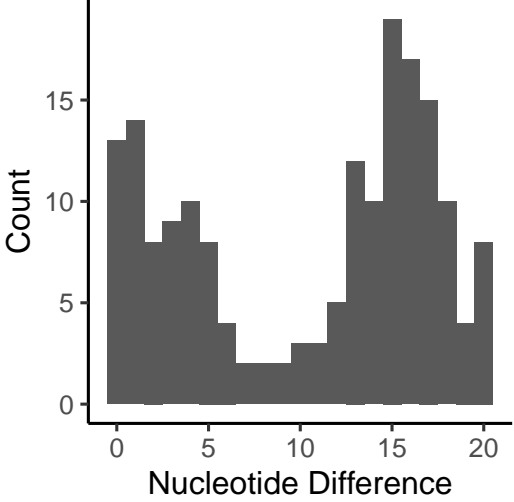
IGHV3-69-1*02

12 sequences assigned
1 (8.3%) exact matches, in which:
1 unique CDR3
1 unique J



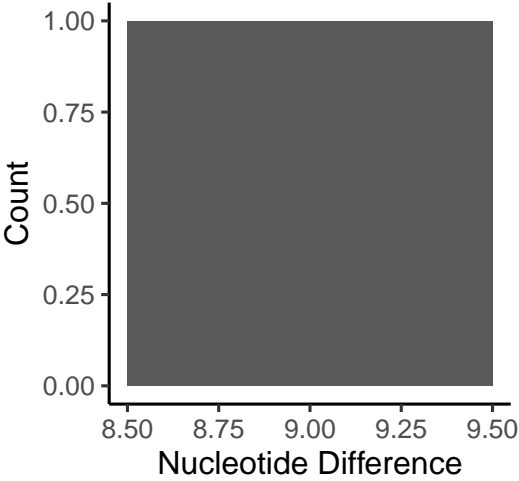
IGHV3-73*02

218 sequences assigned
13 (6%) exact matches, in which:
13 unique CDR3
3 unique J



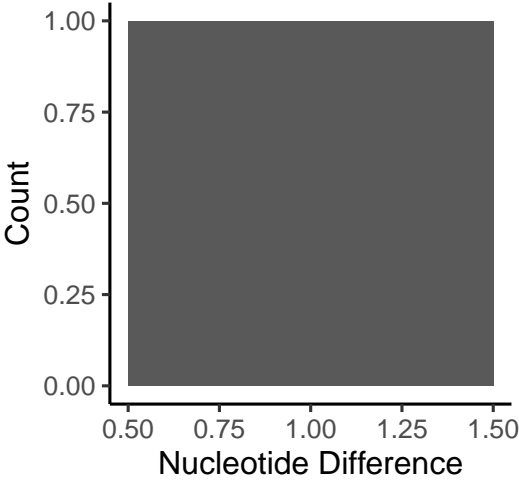
IGHV3-66*01

1 sequences assigned
No exact matches.



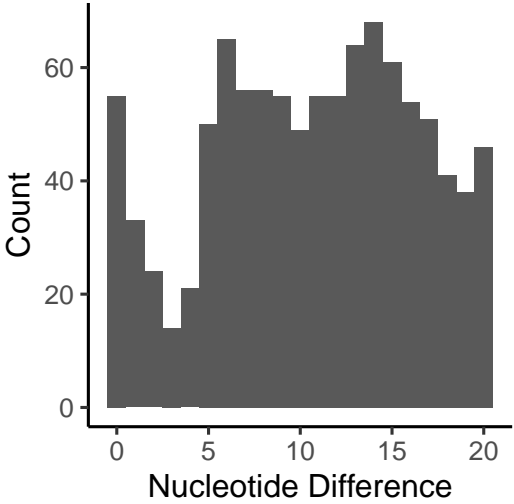
IGHV3-71*03

1 sequences assigned
No exact matches.



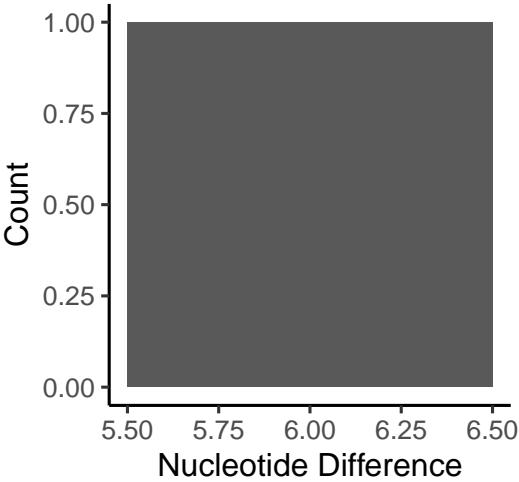
IGHV3-74*01

1540 sequences assigned
55 (3.6%) exact matches, in which:
55 unique CDR3
5 unique J



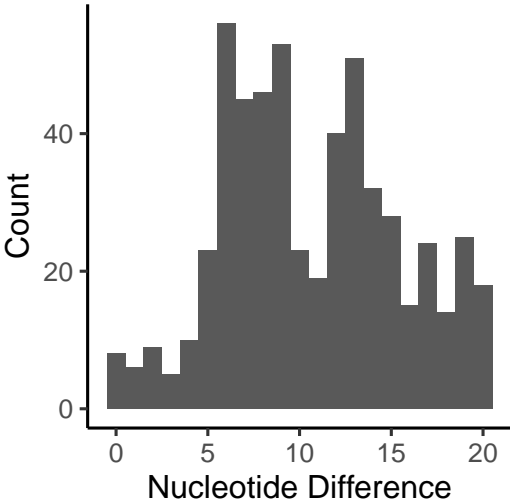
IGHV3-66*03

1 sequences assigned
No exact matches.



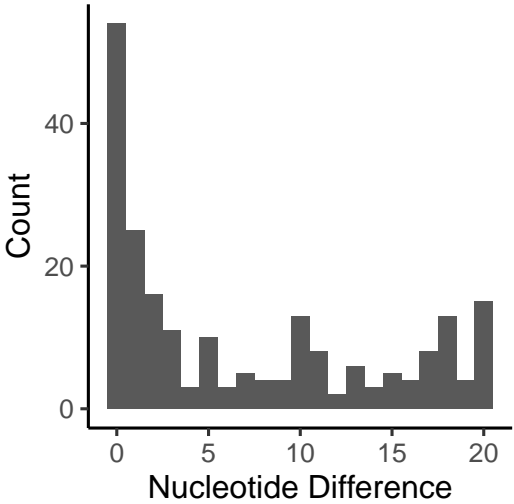
IGHV3-72*01

601 sequences assigned
8 (1.3%) exact matches, in which:
8 unique CDR3
4 unique J



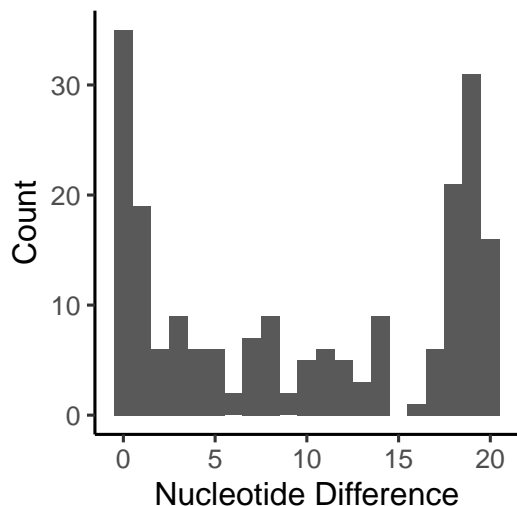
IGHV3-64D*06

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



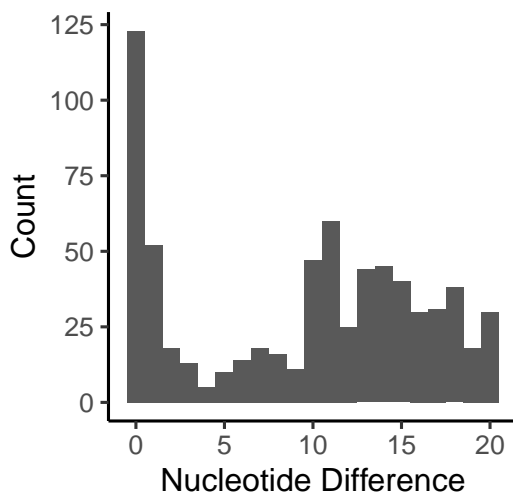
IGHV3-64D*08

356 sequences assigned
35 (9.8%) exact matches, in which:
35 unique CDR3
5 unique J



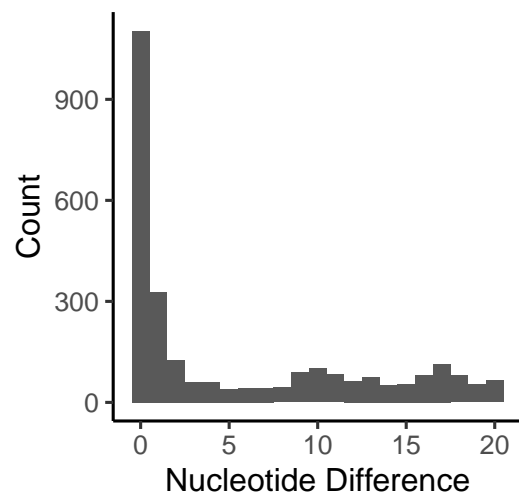
IGHV4-30-4*01

1017 sequences assigned
123 (12.1%) exact matches, in which:
113 unique CDR3
7 unique J



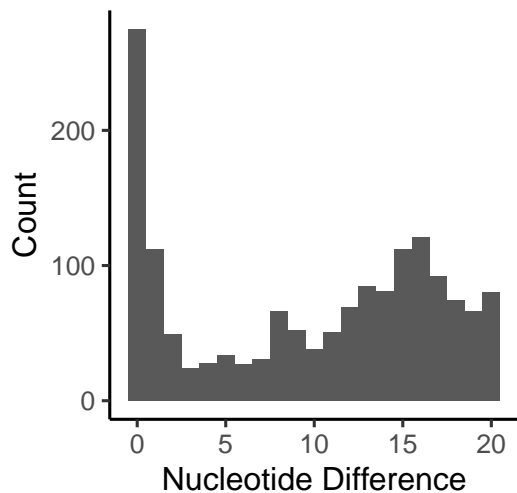
IGHV4-34*01

3644 sequences assigned
1104 (30.3%) exact matches, in which:
1039 unique CDR3
7 unique J



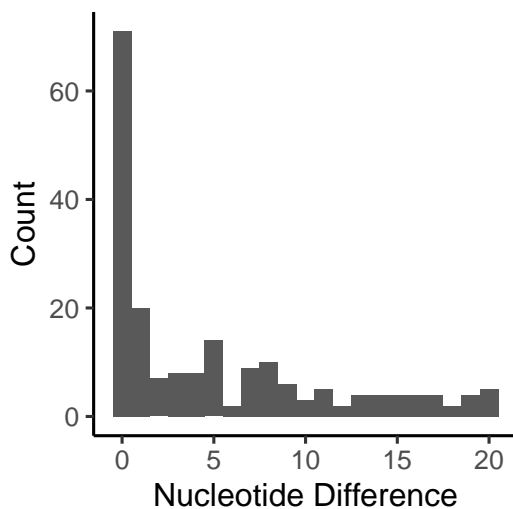
IGHV4-4*07

2333 sequences assigned
275 (11.8%) exact matches, in which:
258 unique CDR3
6 unique J



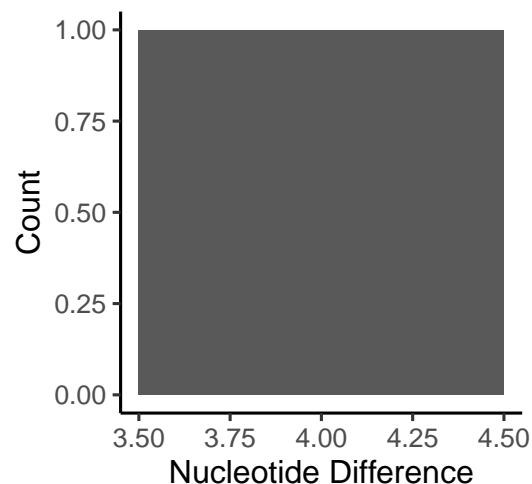
IGHV4-30-2*01

305 sequences assigned
71 (23.3%) exact matches, in which:
65 unique CDR3
5 unique J



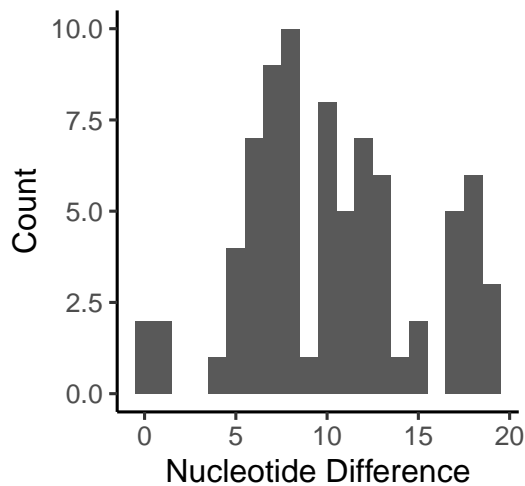
IGHV4-38-2*02

39 sequences assigned
No exact matches.



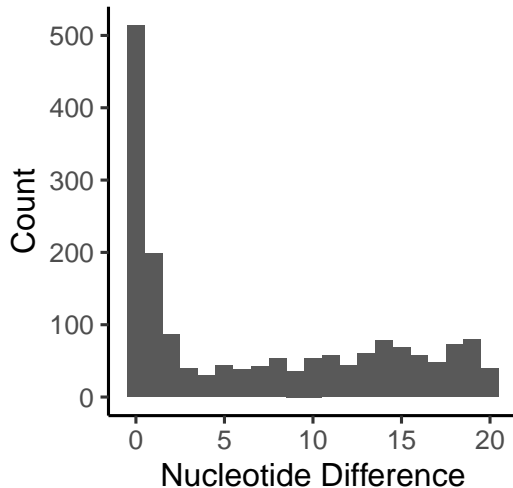
IGHV4-28*01

82 sequences assigned
2 (2.4%) exact matches, in which:
2 unique CDR3
1 unique J



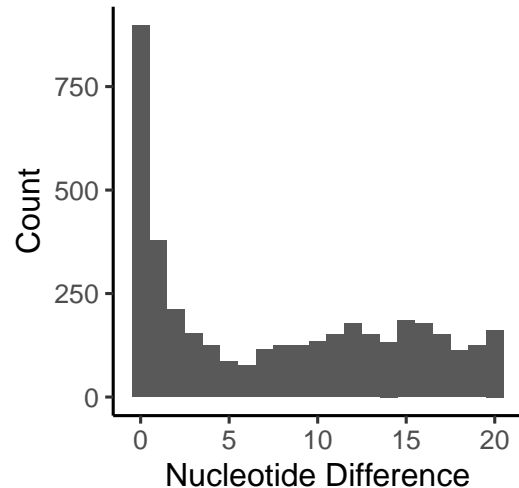
IGHV4-31*03

2265 sequences assigned
514 (22.7%) exact matches, in which:
487 unique CDR3
7 unique J



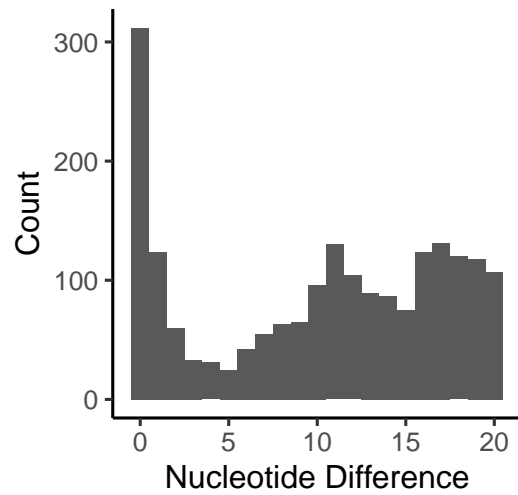
IGHV4-39*01

6085 sequences assigned
898 (14.8%) exact matches, in which:
840 unique CDR3
7 unique J



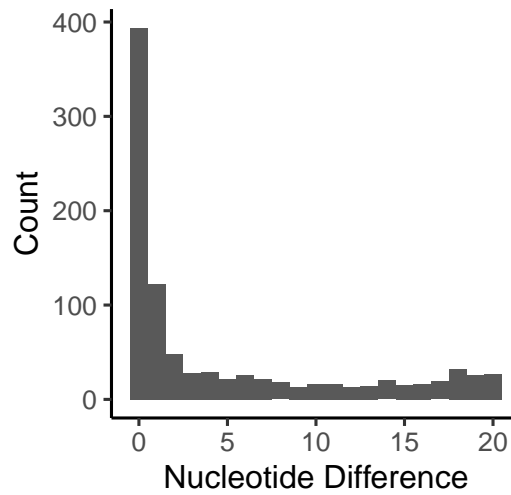
IGHV4–59*01

3193 sequences assigned
312 (9.8%) exact matches, in which:
288 unique CDR3
7 unique J



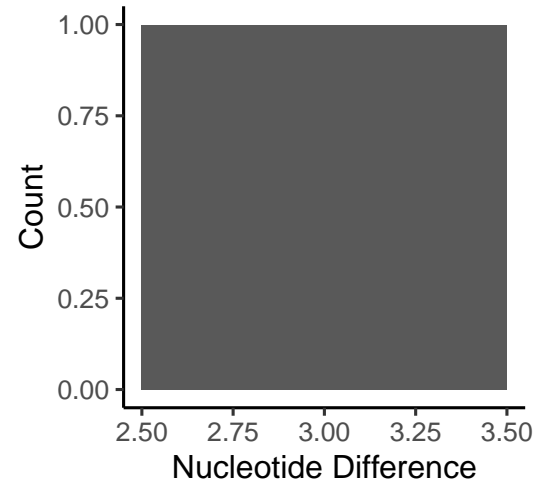
IGHV5–10–1*03

1212 sequences assigned
394 (32.5%) exact matches, in which:
367 unique CDR3
7 unique J



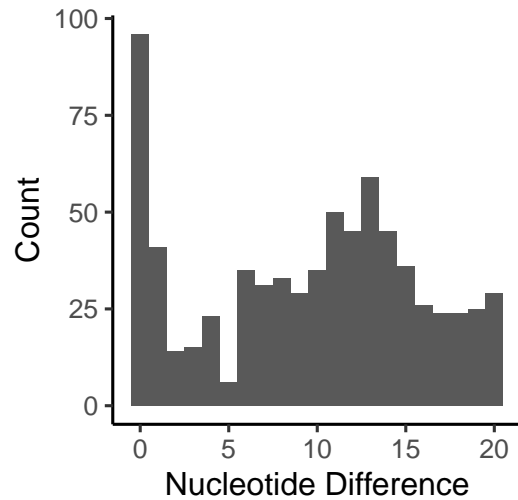
IGHV3/OR16–9*01

1 sequences assigned
No exact matches.



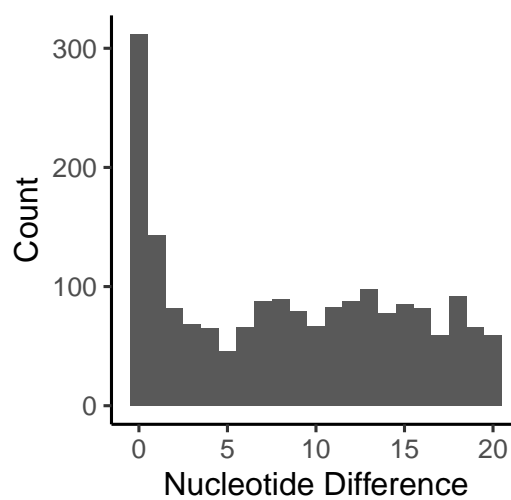
IGHV4–61*01

1292 sequences assigned
96 (7.4%) exact matches, in which:
93 unique CDR3
7 unique J



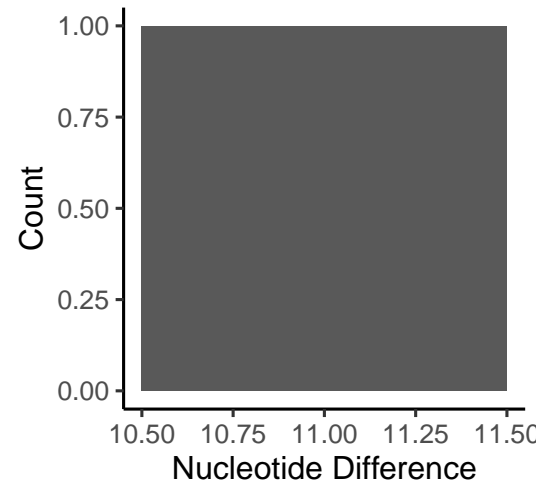
IGHV5–51*01

2384 sequences assigned
312 (13.1%) exact matches, in which:
298 unique CDR3
7 unique J



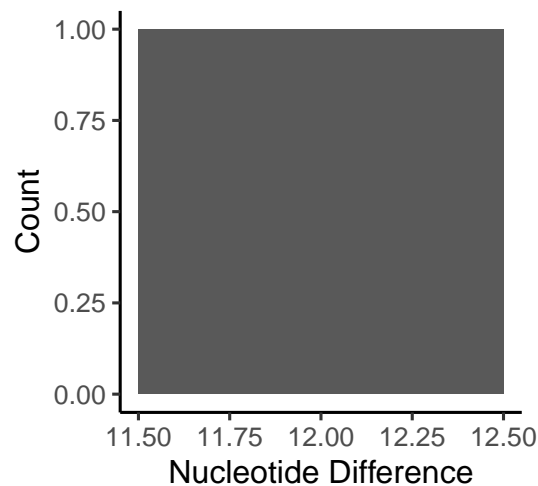
IGHV3/OR16–12*01

1 sequences assigned
No exact matches.



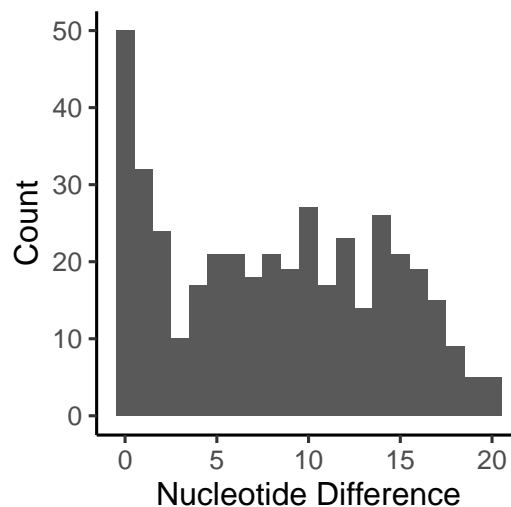
IGHV1/OR15–9*01

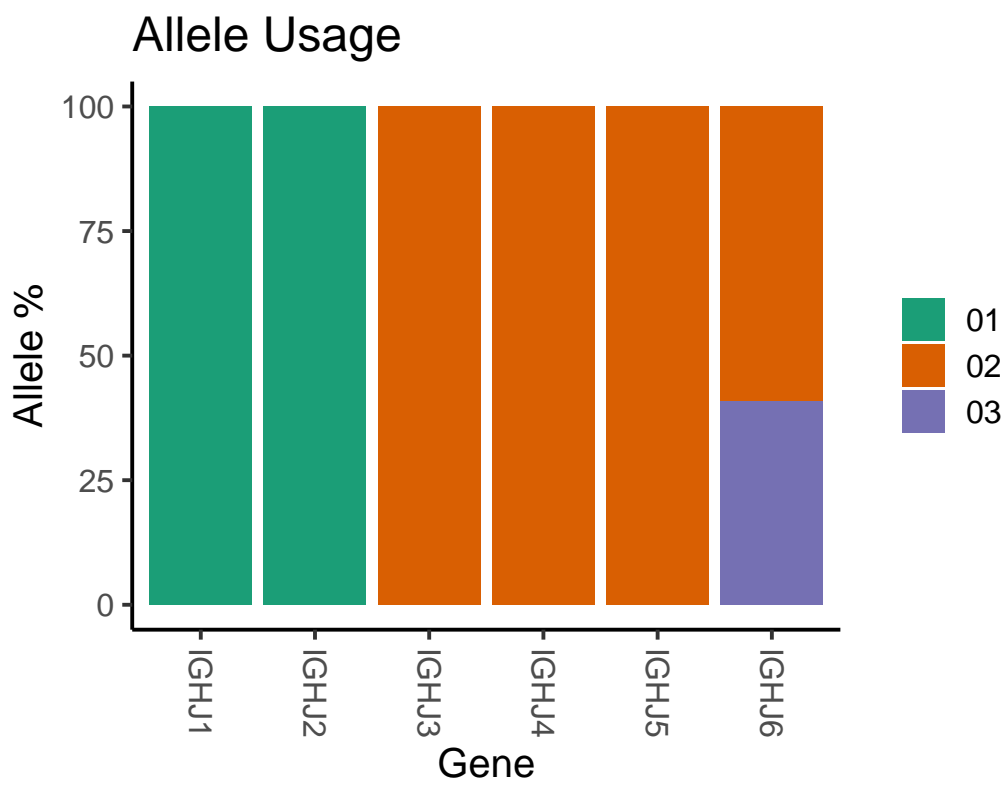
1 sequences assigned
No exact matches.



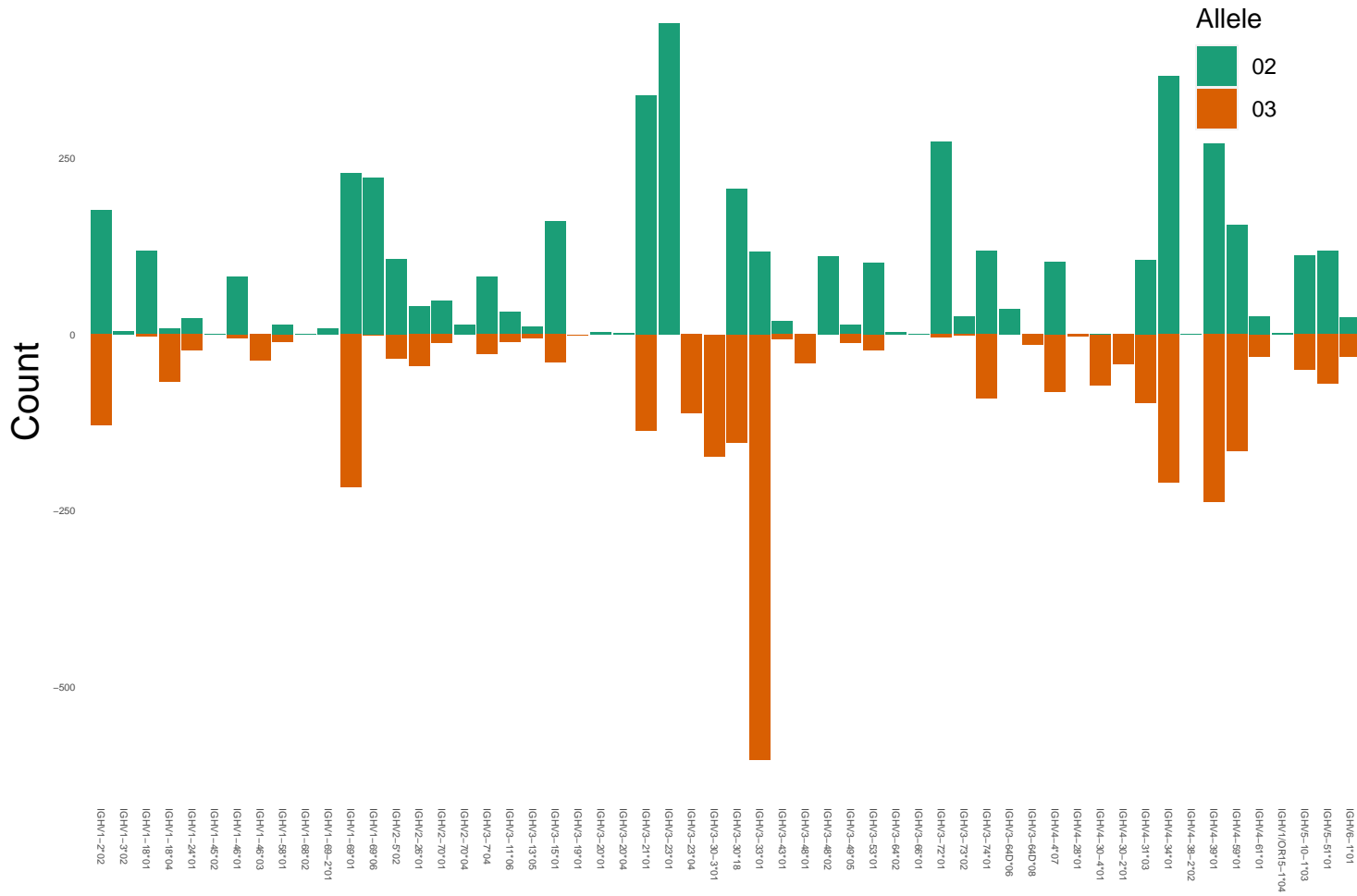
IGHV6–1*01

522 sequences assigned
50 (9.6%) exact matches, in which:
49 unique CDR3
6 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.