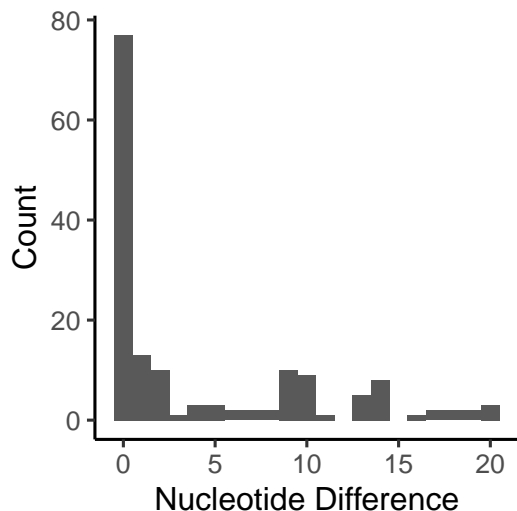


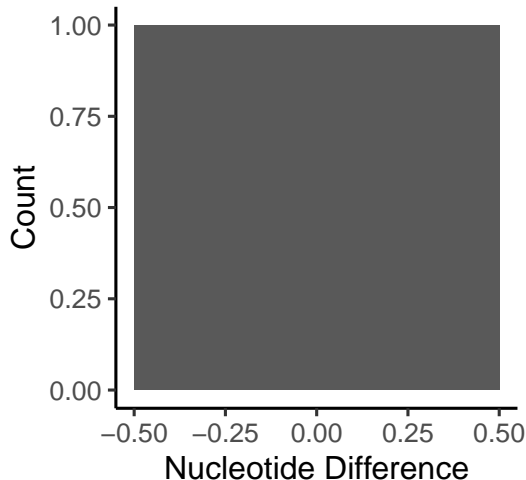
IGHV1-2*04

162 sequences assigned
77 (47.5%) exact matches, in which:
71 unique CDR3
5 unique J



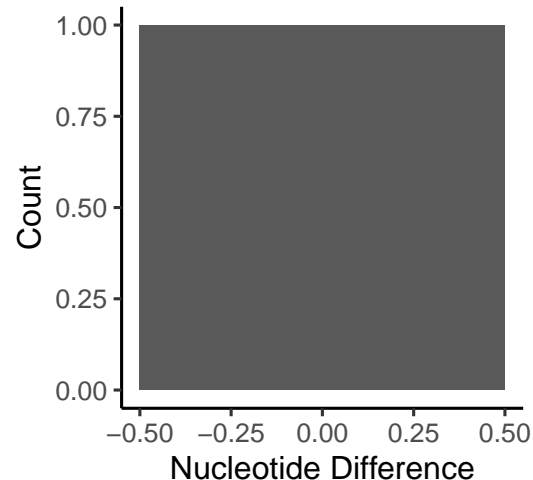
IGHV1-8*01

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



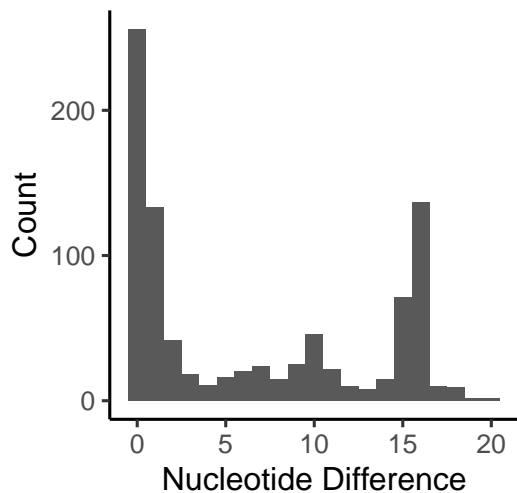
IGHV1-45*02

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



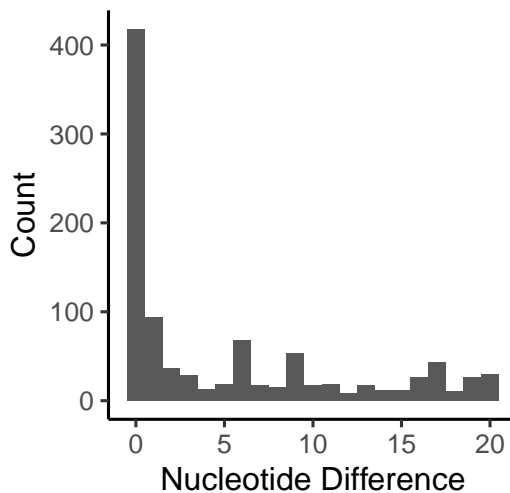
IGHV1-2*06

1100 sequences assigned
256 (23.3%) exact matches, in which:
232 unique CDR3
6 unique J



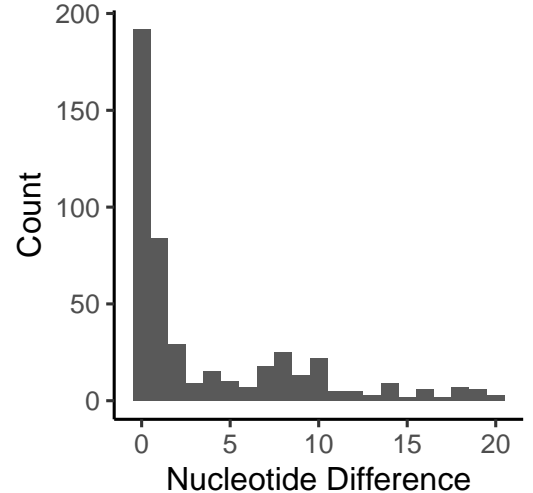
IGHV1-18*01

1133 sequences assigned
418 (36.9%) exact matches, in which:
387 unique CDR3
6 unique J



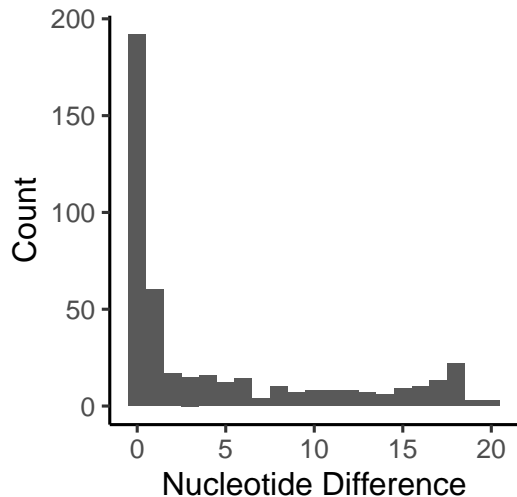
IGHV1-46*01

505 sequences assigned
192 (38%) exact matches, in which:
173 unique CDR3
6 unique J



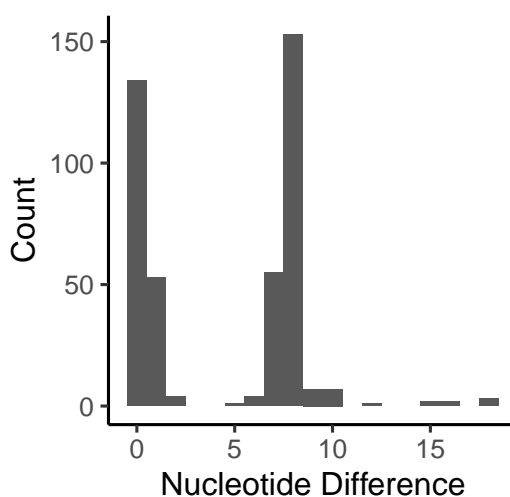
IGHV1-3*01_05

571 sequences assigned
192 (33.6%) exact matches, in which:
183 unique CDR3
6 unique J



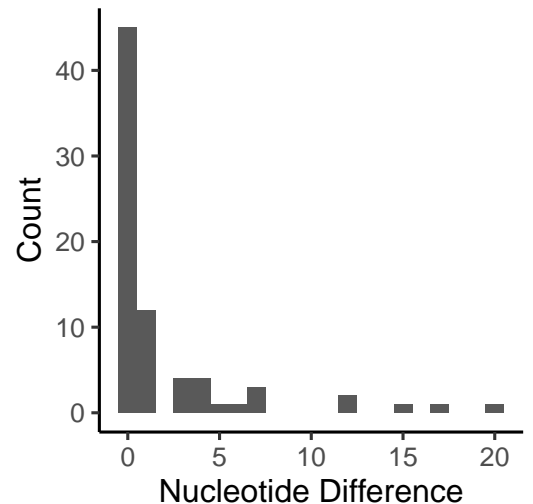
IGHV1-24*01

432 sequences assigned
134 (31%) exact matches, in which:
123 unique CDR3
6 unique J



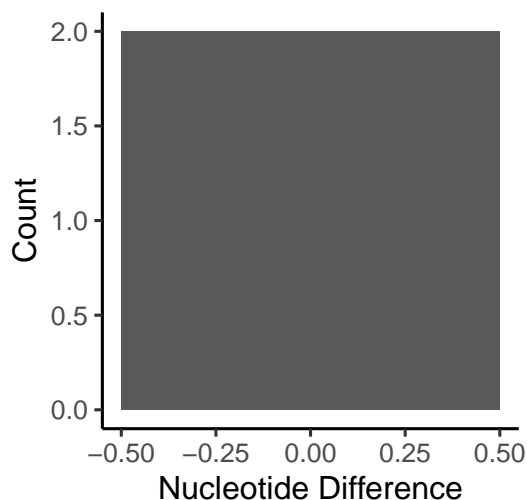
IGHV1-58*01_03

77 sequences assigned
45 (58.4%) exact matches, in which:
44 unique CDR3
5 unique J



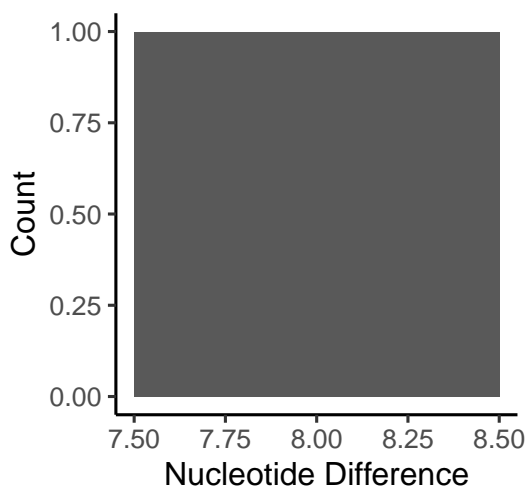
IGHV1-69-2*01

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



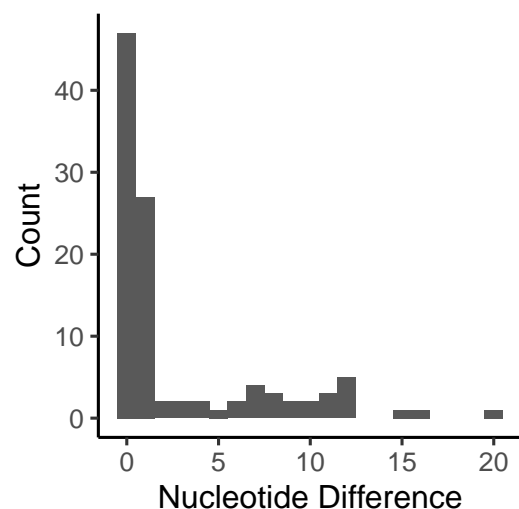
IGHV1-NL1*01

1 sequences assigned
No exact matches.



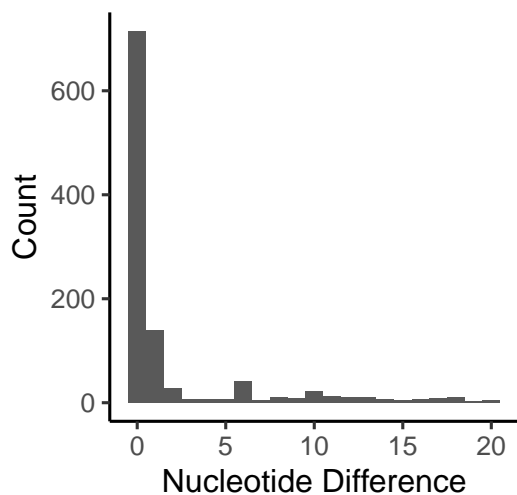
IGHV2-70*01

116 sequences assigned
47 (40.5%) exact matches, in which:
40 unique CDR3
4 unique J



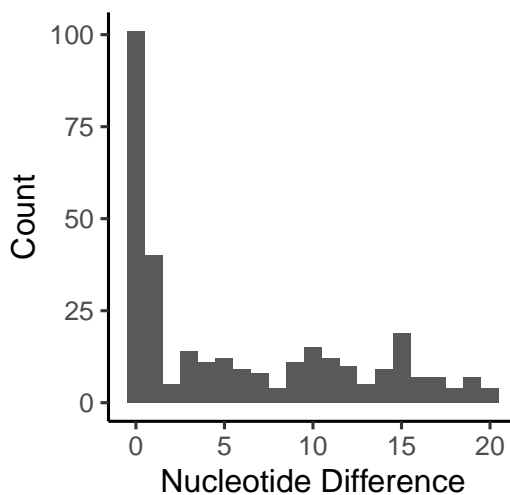
IGHV1-69*01_12_13

1109 sequences assigned
715 (64.5%) exact matches, in which:
696 unique CDR3
6 unique J



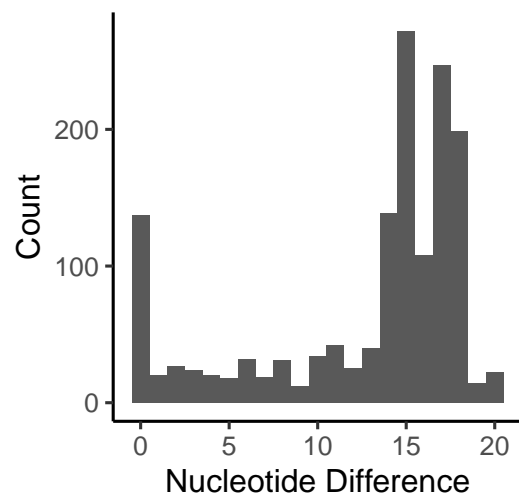
IGHV2-5*02

373 sequences assigned
101 (27.1%) exact matches, in which:
87 unique CDR3
5 unique J



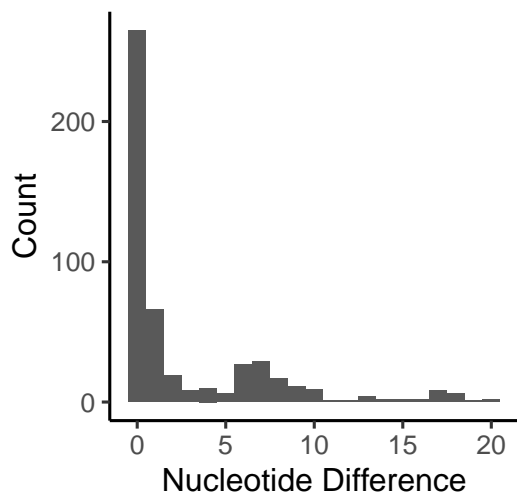
IGHV3-7*04

1610 sequences assigned
137 (8.5%) exact matches, in which:
78 unique CDR3
6 unique J



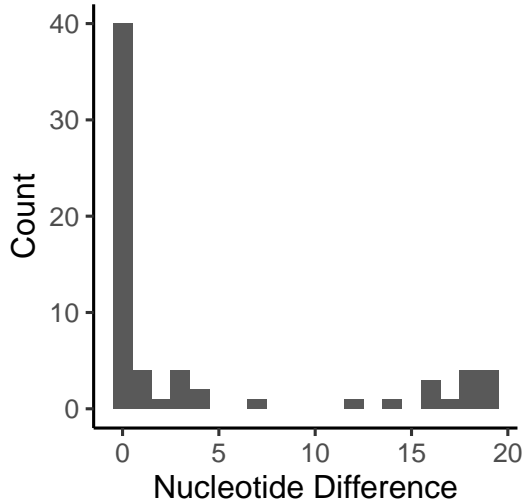
IGHV1-69*06_14

517 sequences assigned
265 (51.3%) exact matches, in which:
245 unique CDR3
6 unique J



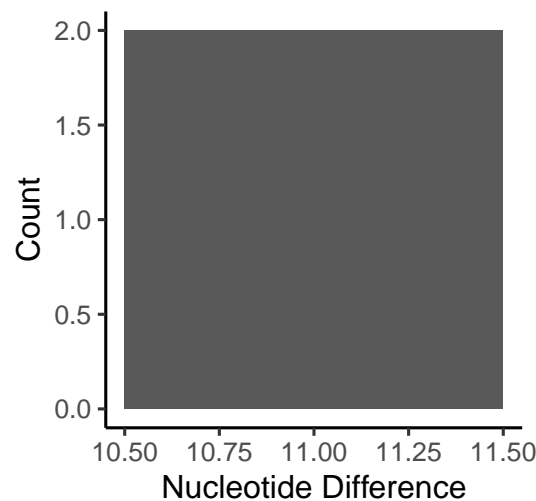
IGHV2-26*01

66 sequences assigned
40 (60.6%) exact matches, in which:
36 unique CDR3
5 unique J



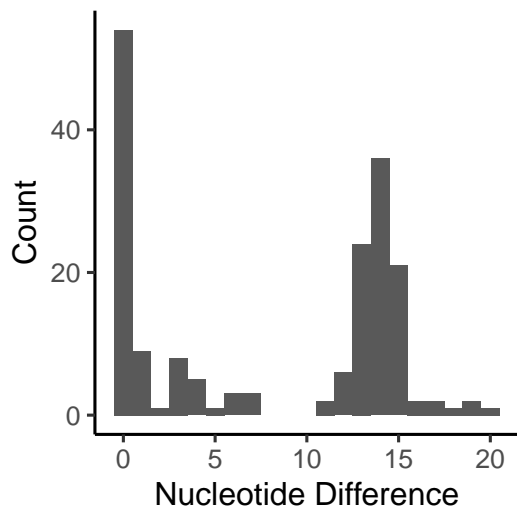
IGHV3-9*01

2 sequences assigned
No exact matches.



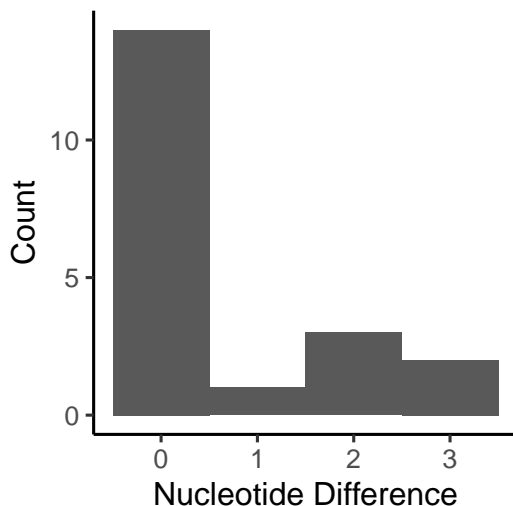
IGHV3-11*06

235 sequences assigned
54 (23%) exact matches, in which:
34 unique CDR3
5 unique J



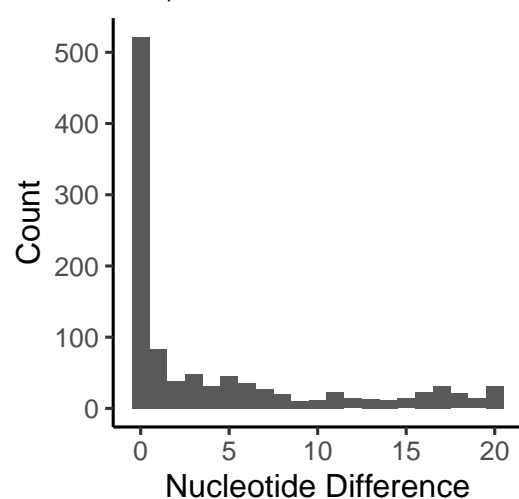
IGHV3-13*05

27 sequences assigned
14 (51.9%) exact matches, in which:
8 unique CDR3
3 unique J



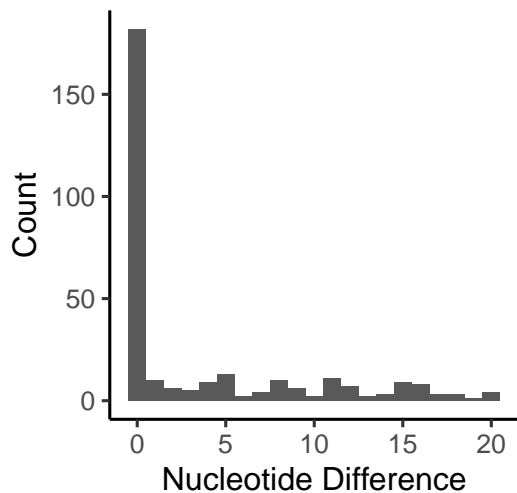
IGHV3-21*01_02

1529 sequences assigned
522 (34.1%) exact matches, in which:
284 unique CDR3
6 unique J



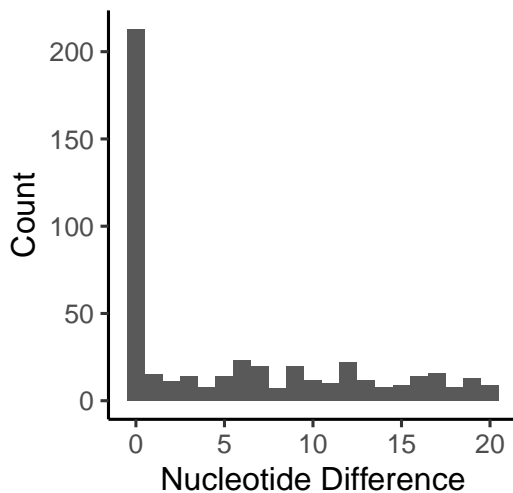
IGHV3-11*06_T300C

403 sequences assigned
182 (45.2%) exact matches, in which:
97 unique CDR3
6 unique J



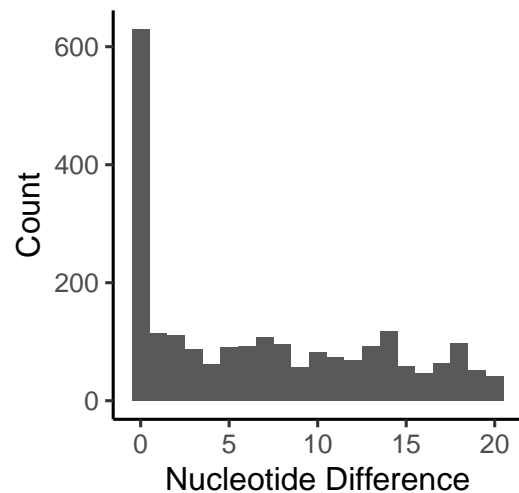
IGHV3-15*01_02

555 sequences assigned
213 (38.4%) exact matches, in which:
117 unique CDR3
6 unique J



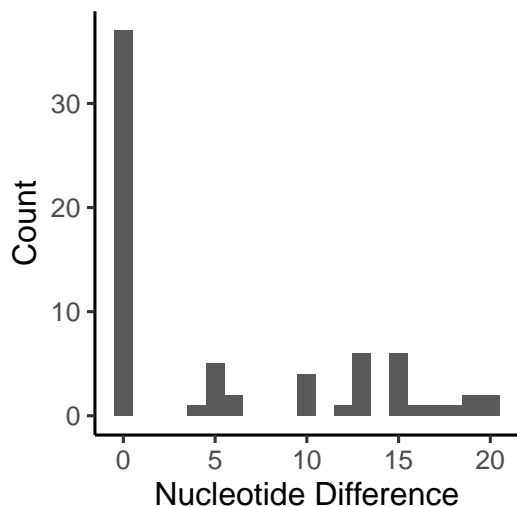
IGHV3-23*01_04

4009 sequences assigned
630 (15.7%) exact matches, in which:
348 unique CDR3
6 unique J



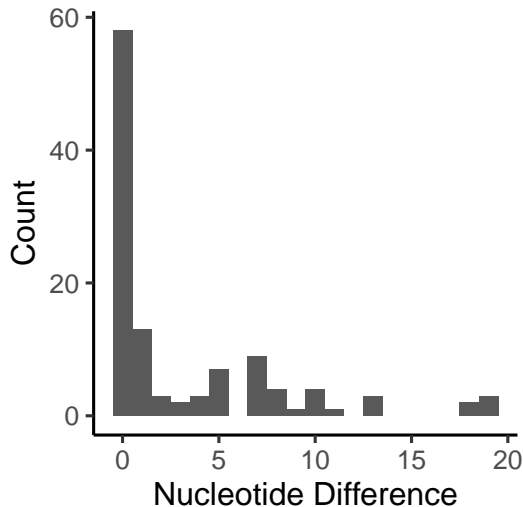
IGHV3-13*04

87 sequences assigned
37 (42.5%) exact matches, in which:
20 unique CDR3
5 unique J



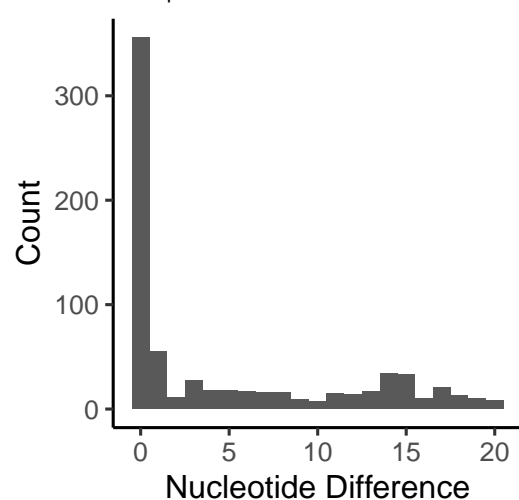
IGHV3-20*03_04

120 sequences assigned
58 (48.3%) exact matches, in which:
32 unique CDR3
5 unique J



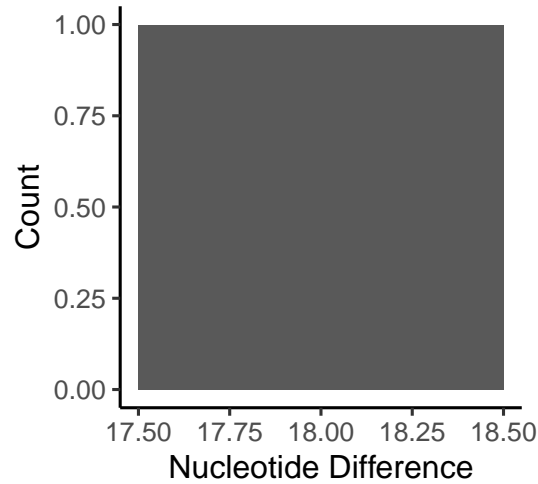
IGHV3-30*01

917 sequences assigned
356 (38.8%) exact matches, in which:
199 unique CDR3
6 unique J



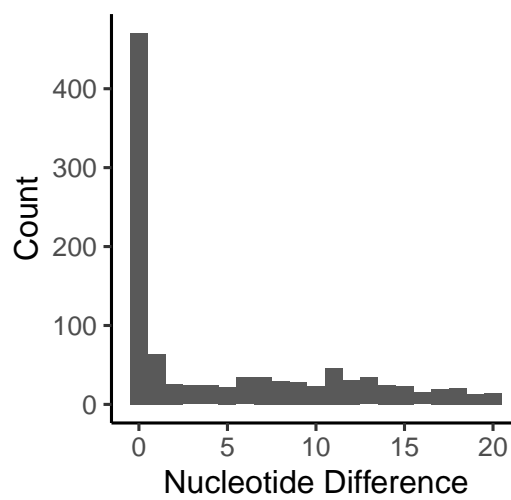
IGHV3-30-5*01

58 sequences assigned
No exact matches.



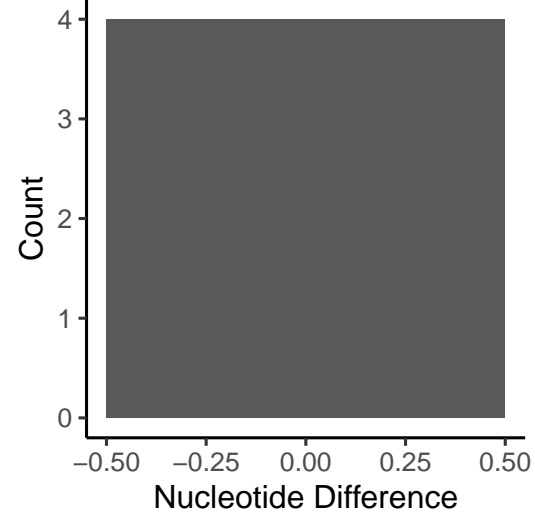
IGHV3-33*01

1413 sequences assigned
471 (33.3%) exact matches, in which:
275 unique CDR3
6 unique J



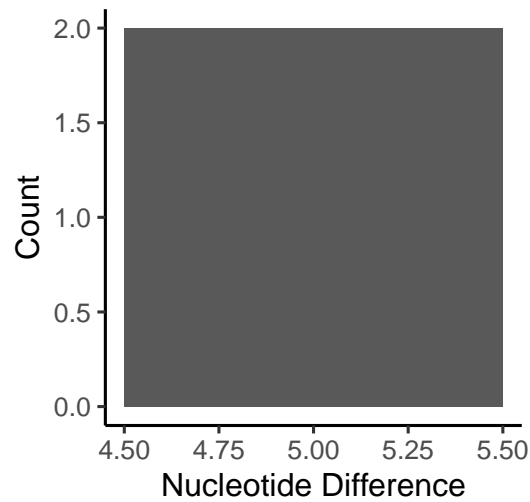
IGHV3-52*01_03

4 sequences assigned
4 (100%) exact matches, in which:
2 unique CDR3
1 unique J



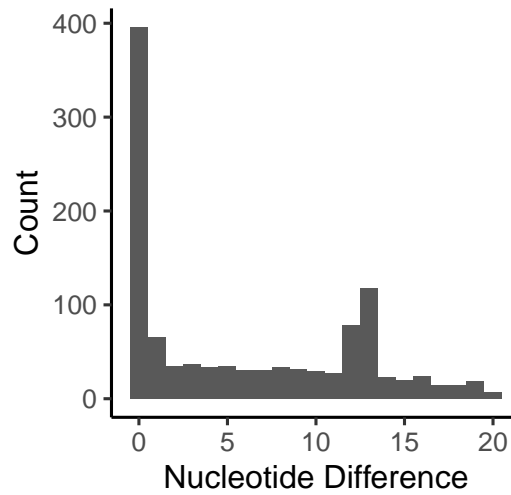
IGHV3-30-3*01

2 sequences assigned
No exact matches.



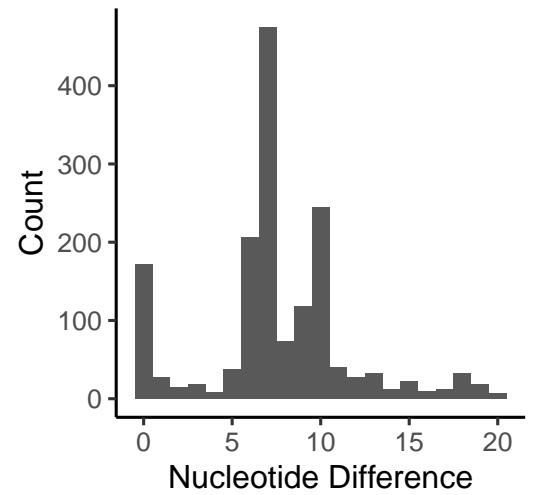
IGHV3-48*03

1292 sequences assigned
396 (30.7%) exact matches, in which:
229 unique CDR3
6 unique J



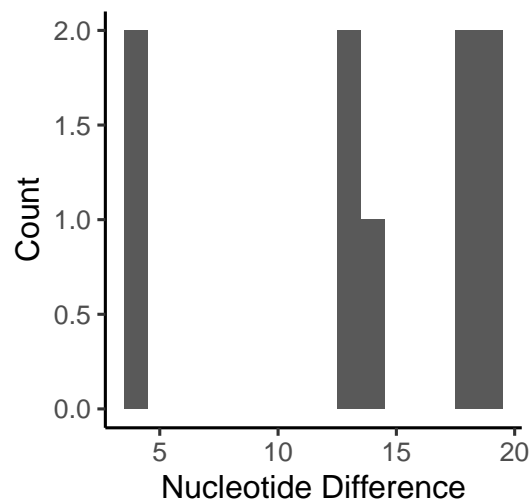
IGHV3-53*01_02

1700 sequences assigned
172 (10.1%) exact matches, in which:
95 unique CDR3
6 unique J



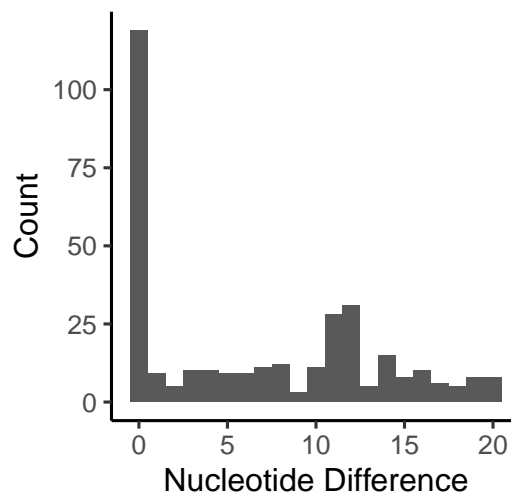
IGHV3-30-3*03

39 sequences assigned
No exact matches.



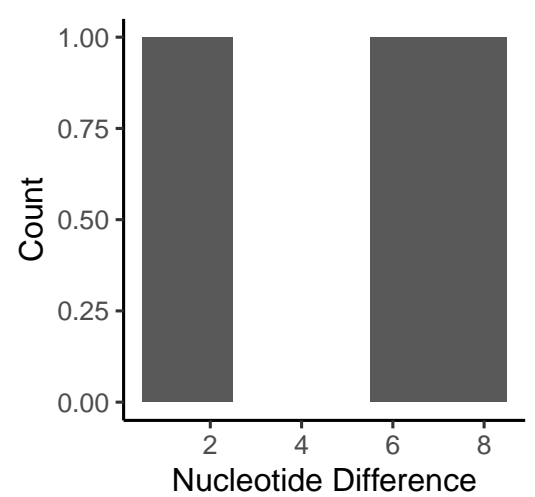
IGHV3-49*04

713 sequences assigned
119 (16.7%) exact matches, in which:
68 unique CDR3
5 unique J



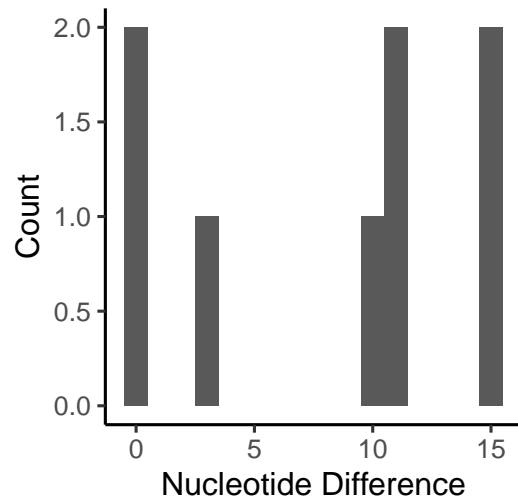
IGHV3-64*04

5 sequences assigned
No exact matches.



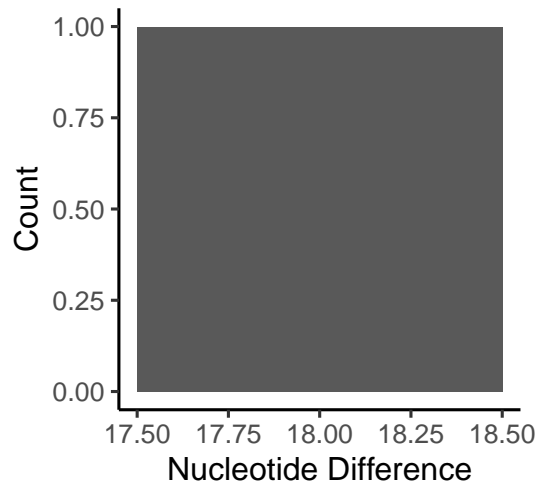
IGHV3-64*02_07

13 sequences assigned
2 (15.4%) exact matches, in which:
1 unique CDR3
1 unique J



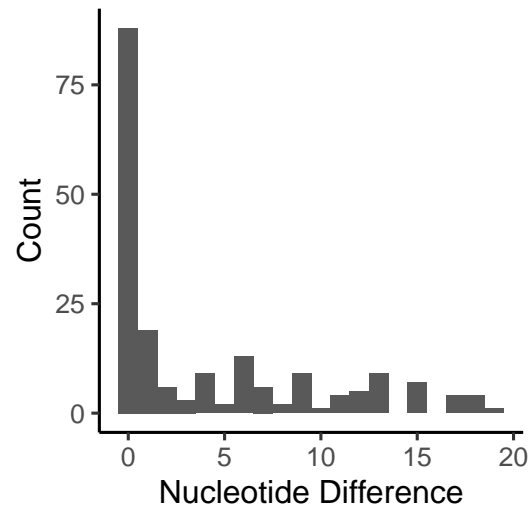
IGHV3-69-1*01

1 sequences assigned
No exact matches.



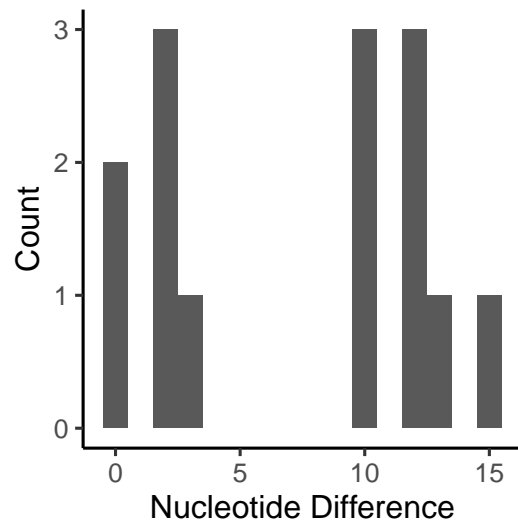
IGHV3-73*01_02

208 sequences assigned
88 (42.3%) exact matches, in which:
51 unique CDR3
5 unique J



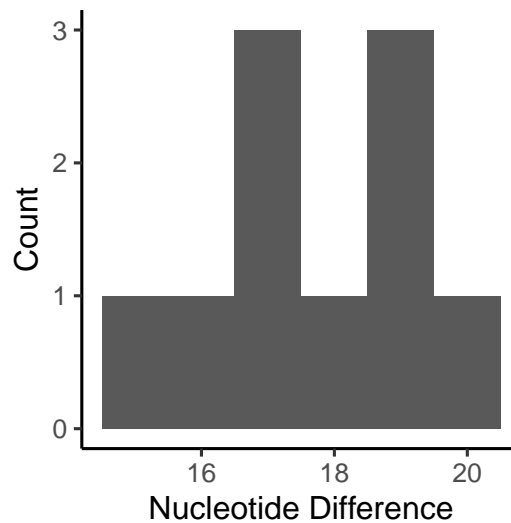
IGHV3-66*03

15 sequences assigned
2 (13.3%) exact matches, in which:
1 unique CDR3
1 unique J



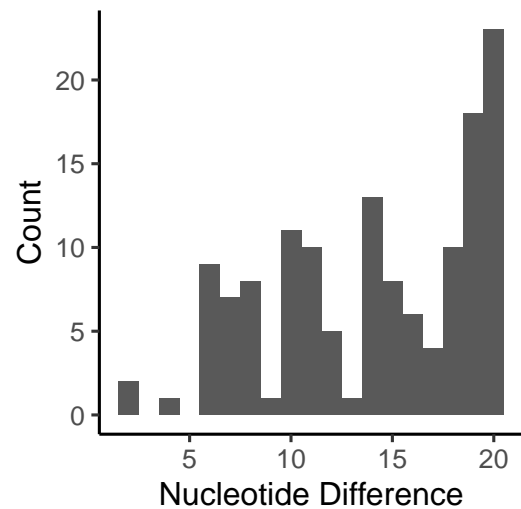
IGHV3-69-1*02

15 sequences assigned
No exact matches.



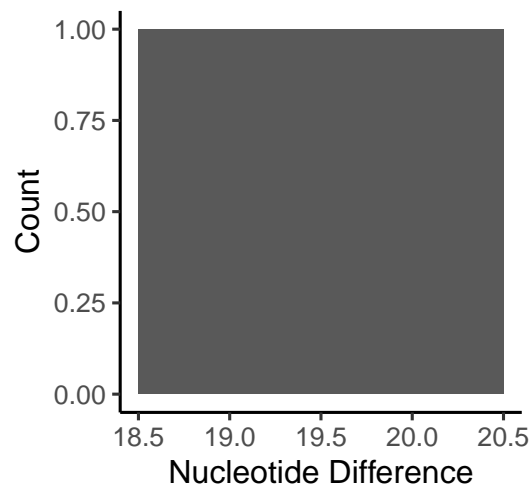
IGHV3-74*03

343 sequences assigned
No exact matches.



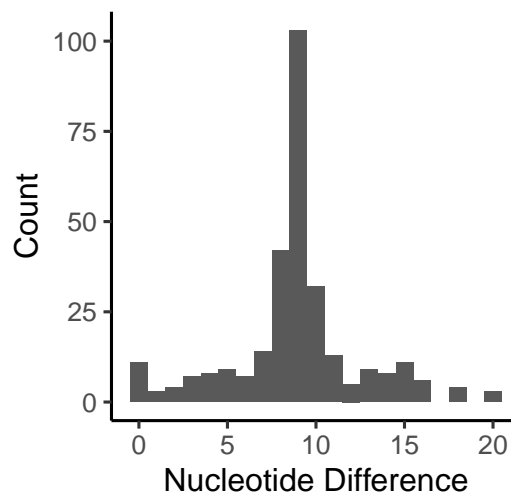
IGHV3-66*04

3 sequences assigned
No exact matches.



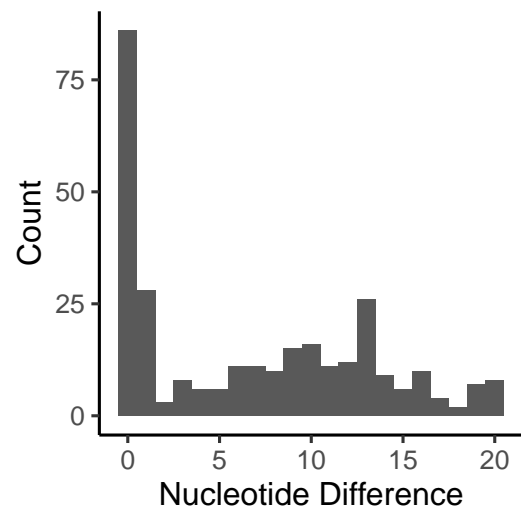
IGHV3-72*01

357 sequences assigned
11 (3.1%) exact matches, in which:
8 unique CDR3
3 unique J



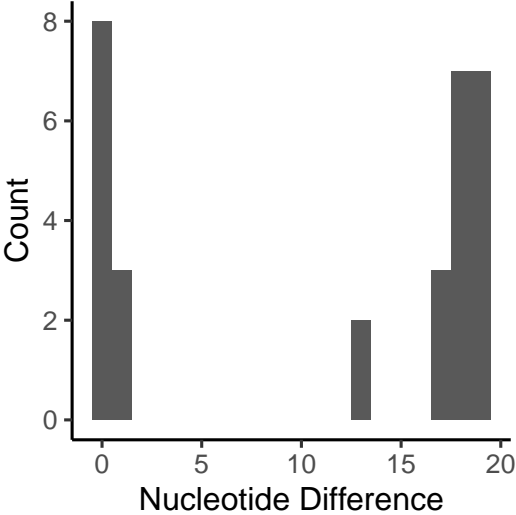
IGHV3-74*01_02

437 sequences assigned
86 (19.7%) exact matches, in which:
45 unique CDR3
6 unique J



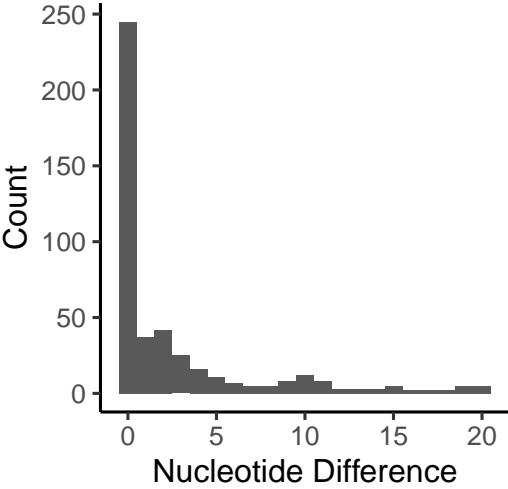
IGHV3-43D*04

31 sequences assigned
8 (25.8%) exact matches, in which:
4 unique CDR3
3 unique J



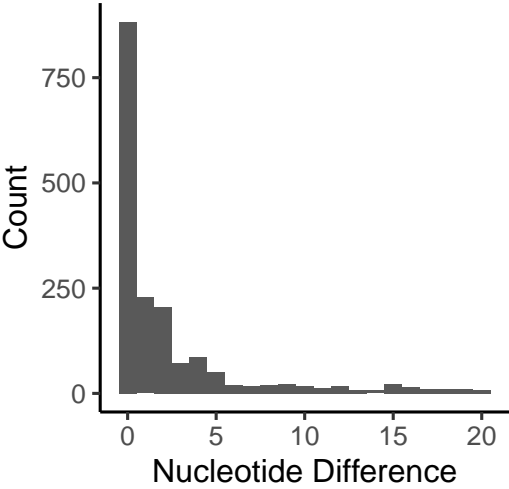
IGHV4-4*02_03

526 sequences assigned
245 (46.6%) exact matches, in which:
212 unique CDR3
6 unique J



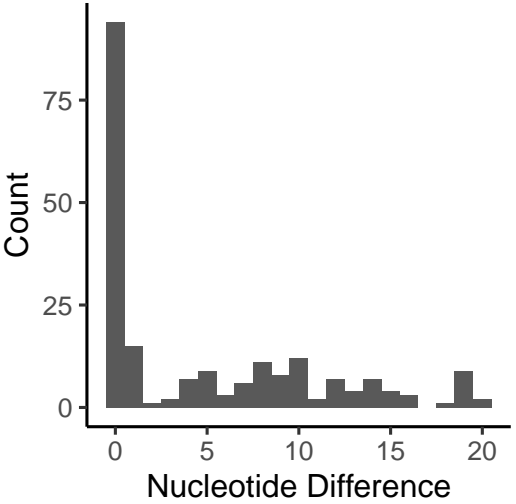
IGHV4-34*01_02

1905 sequences assigned
883 (46.4%) exact matches, in which:
740 unique CDR3
6 unique J



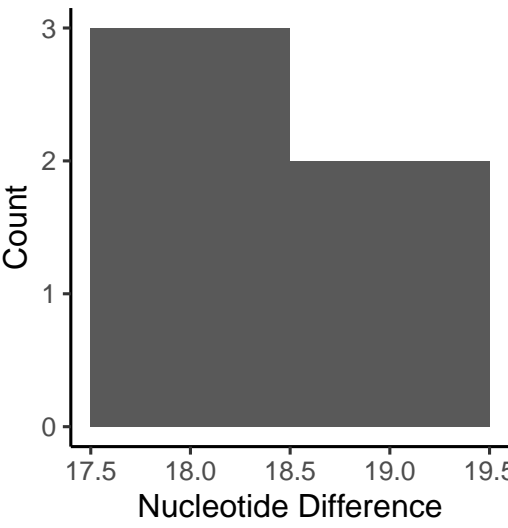
IGHV3-64D*06

266 sequences assigned
94 (35.3%) exact matches, in which:
46 unique CDR3
6 unique J



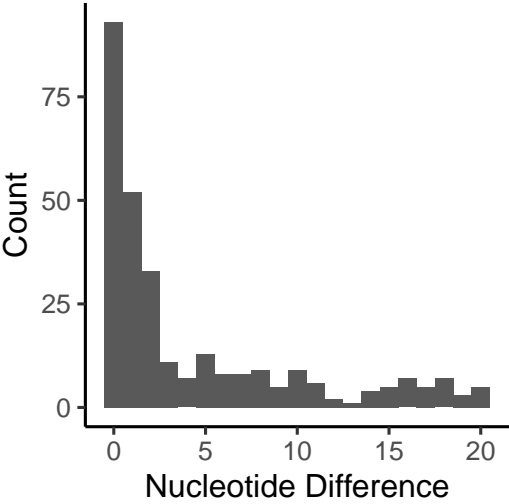
IGHV4-30-2*01

5 sequences assigned
No exact matches.



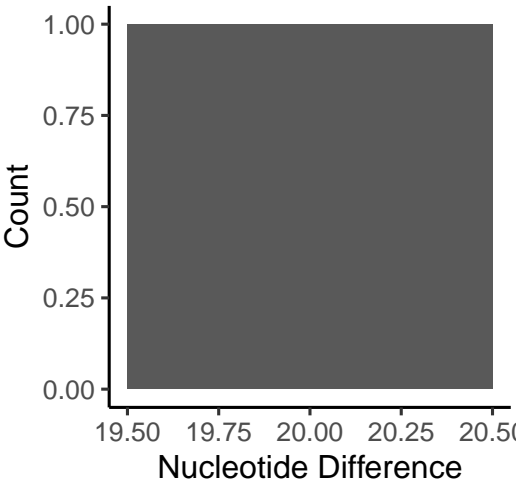
IGHV4-38-2*01

603 sequences assigned
93 (15.4%) exact matches, in which:
89 unique CDR3
5 unique J



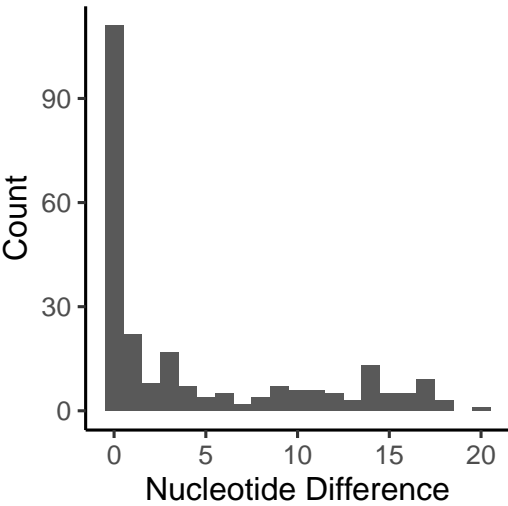
IGHV3-NL1*01

1 sequences assigned
No exact matches.



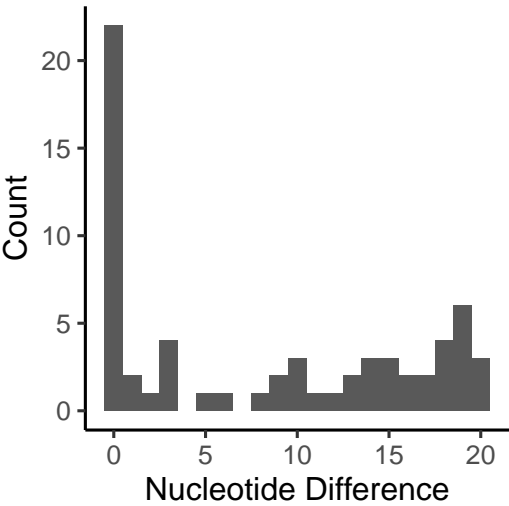
IGHV4-31*02

280 sequences assigned
111 (39.6%) exact matches, in which:
108 unique CDR3
5 unique J



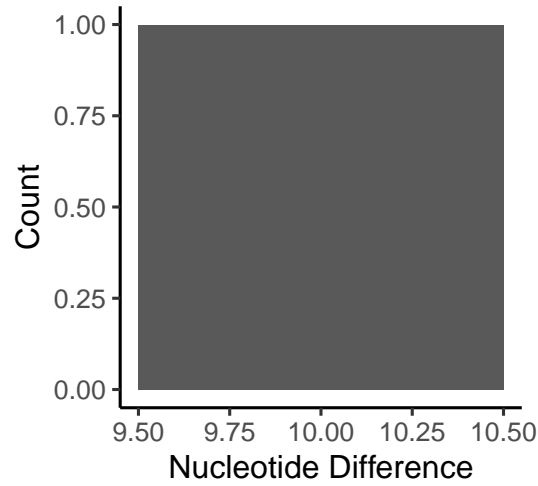
IGHV4-38-2*02

233 sequences assigned
22 (9.4%) exact matches, in which:
19 unique CDR3
4 unique J



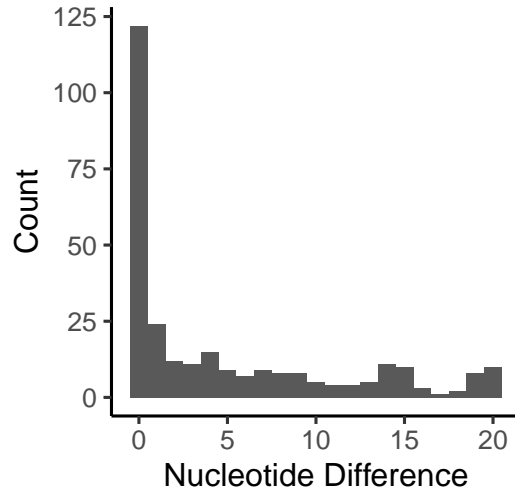
IGHV4–39*02

2 sequences assigned
No exact matches.



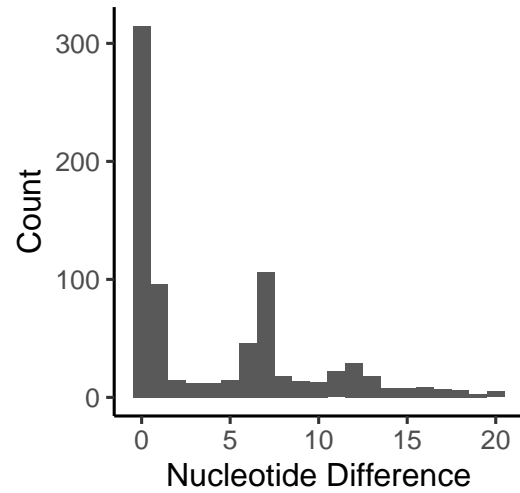
IGHV4–61*01

363 sequences assigned
122 (33.6%) exact matches, in which:
120 unique CDR3
6 unique J



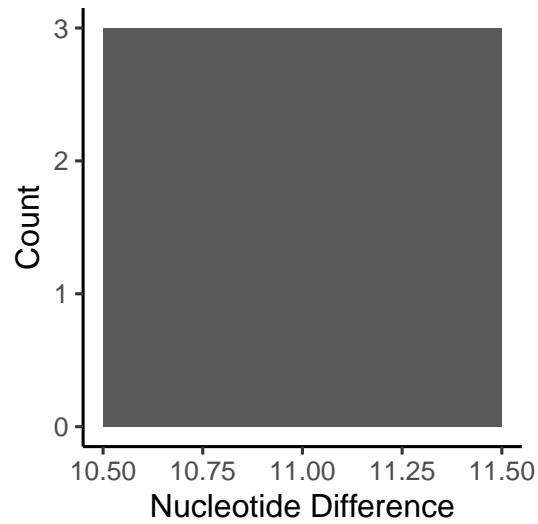
IGHV5–10–1*01_03

930 sequences assigned
315 (33.9%) exact matches, in which:
195 unique CDR3
6 unique J



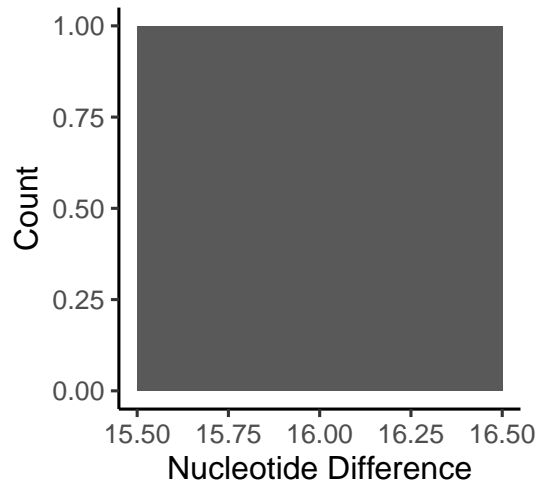
IGHV4–39*07

5 sequences assigned
No exact matches.



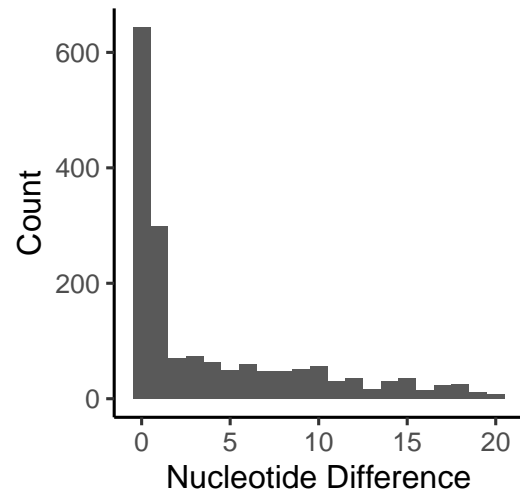
IGHV4/OR15–8*02

1 sequences assigned
No exact matches.



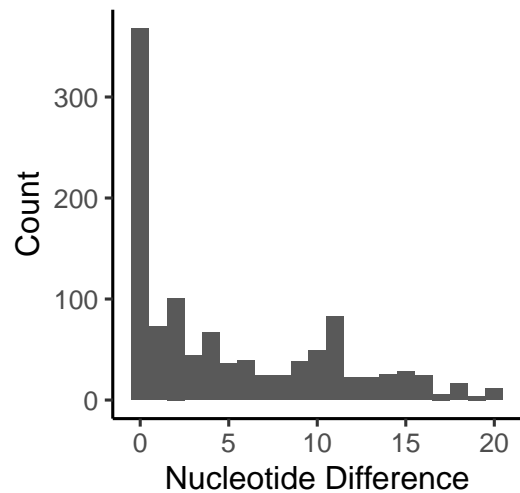
IGHV5–51*07_A128G

1864 sequences assigned
644 (34.5%) exact matches, in which:
381 unique CDR3
6 unique J



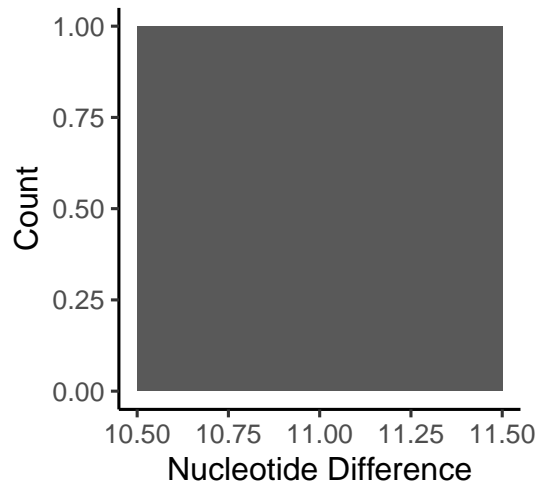
IGHV4–59*02_G88A

1529 sequences assigned
368 (24.1%) exact matches, in which:
345 unique CDR3
6 unique J



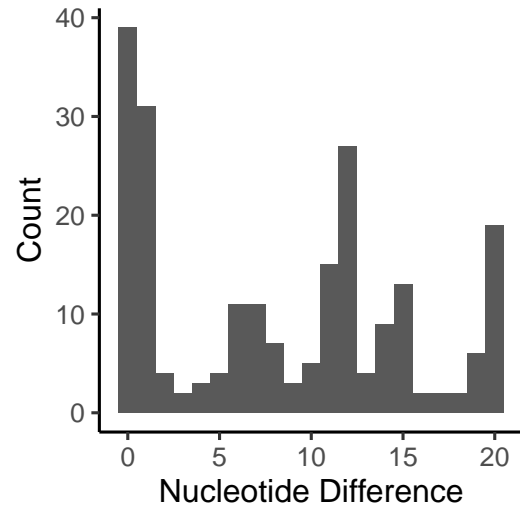
IGHV1/OR15–9*01

1 sequences assigned
No exact matches.



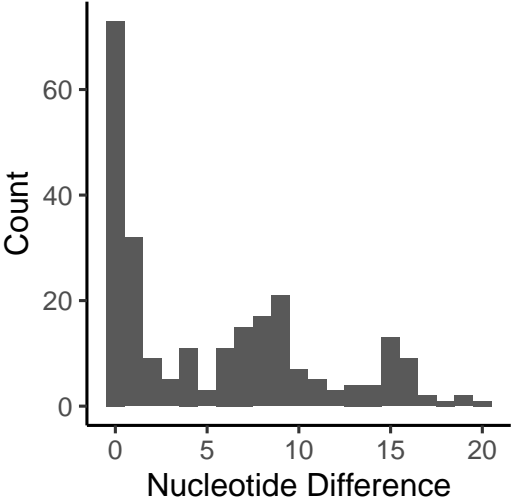
IGHV6–1*01_02

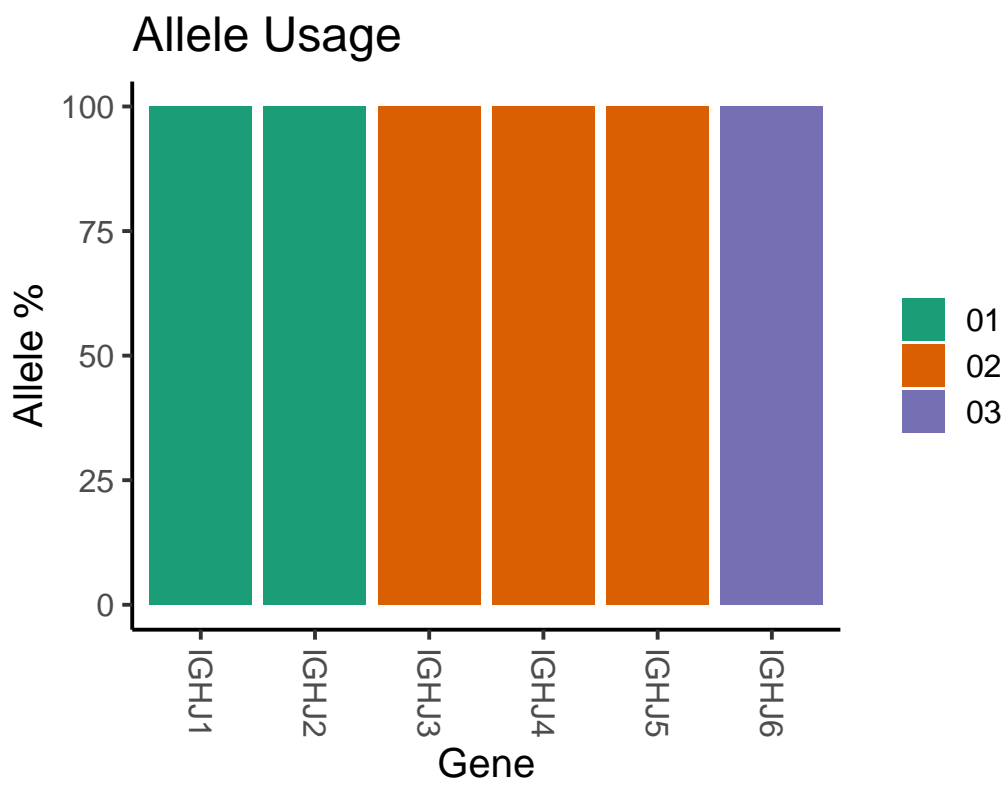
332 sequences assigned
39 (11.7%) exact matches, in which:
38 unique CDR3
4 unique J



IGHV7-4-1*02

407 sequences assigned
73 (17.9%) exact matches, in which:
65 unique CDR3
4 unique J





Warning – no inferred sequences found.