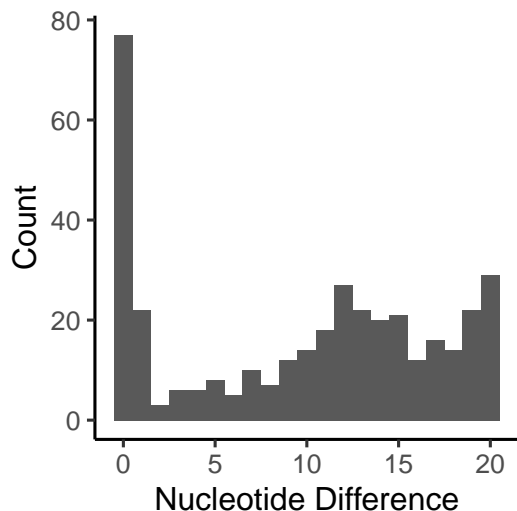


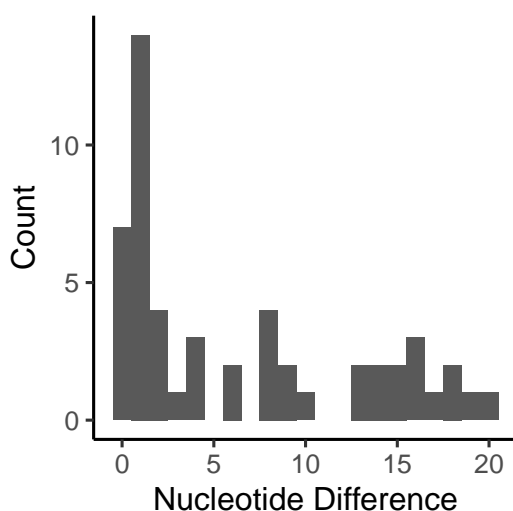
IGHV1-2*02

503 sequences assigned
77 (15.3%) exact matches, in which:
75 unique CDR3
7 unique J



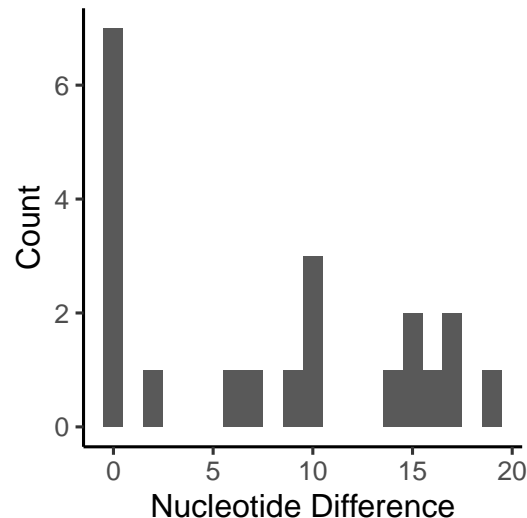
IGHV1-3*01_05

61 sequences assigned
7 (11.5%) exact matches, in which:
7 unique CDR3
6 unique J



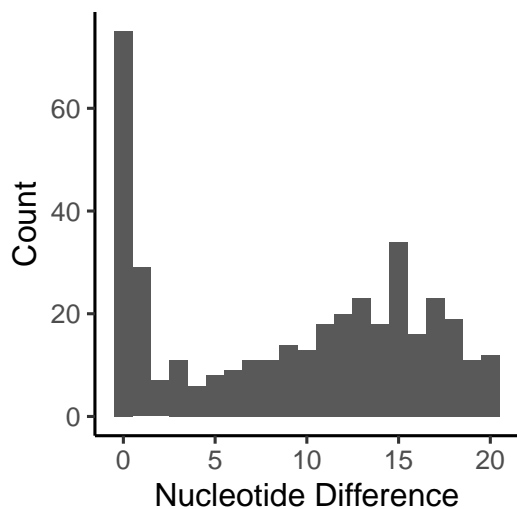
IGHV1-24*01

25 sequences assigned
7 (28%) exact matches, in which:
7 unique CDR3
2 unique J



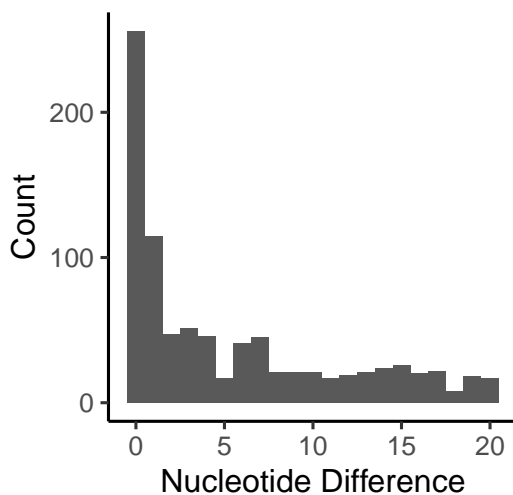
IGHV1-2*06

481 sequences assigned
75 (15.6%) exact matches, in which:
68 unique CDR3
6 unique J



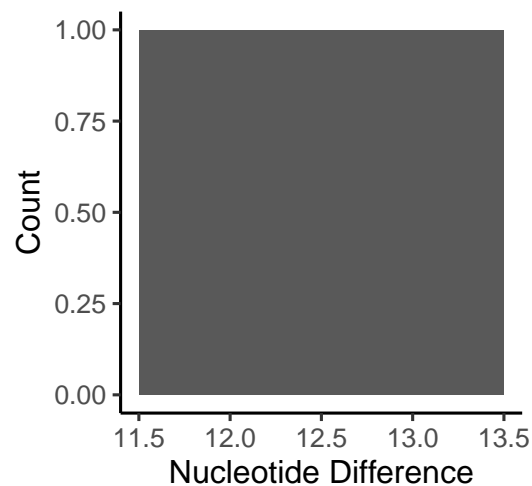
IGHV1-8*01

955 sequences assigned
256 (26.8%) exact matches, in which:
216 unique CDR3
7 unique J



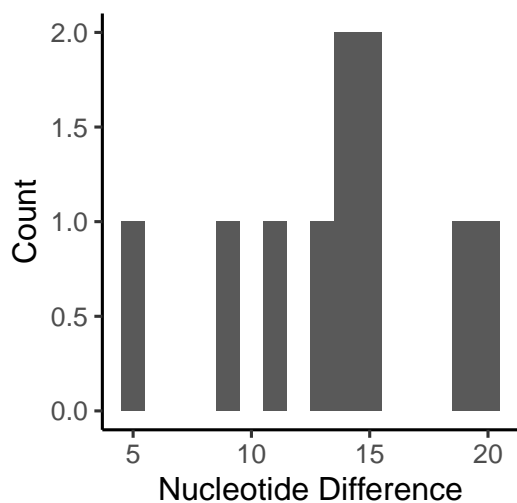
IGHV1-45*02

4 sequences assigned
No exact matches.



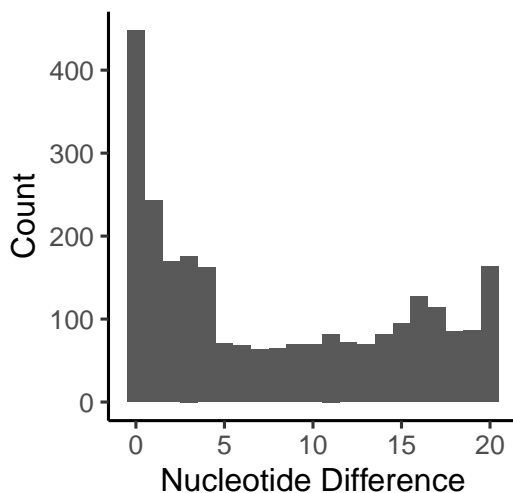
IGHV1-3*04

13 sequences assigned
No exact matches.



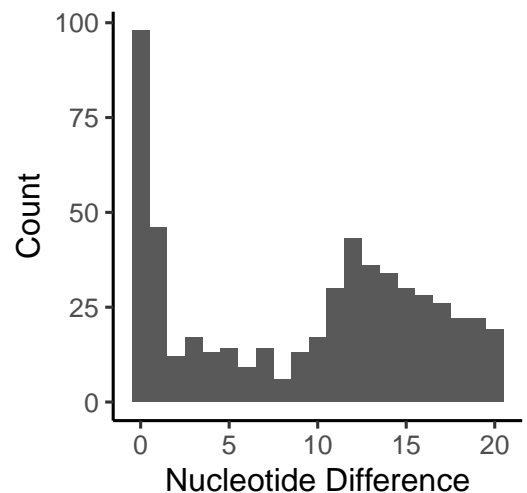
IGHV1-18*01

3152 sequences assigned
448 (14.2%) exact matches, in which:
404 unique CDR3
7 unique J



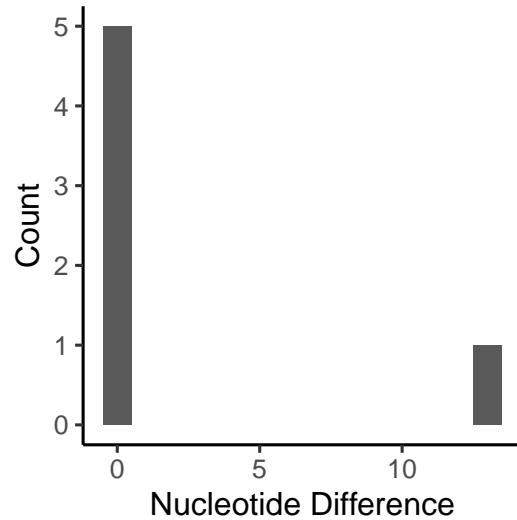
IGHV1-46*01

740 sequences assigned
98 (13.2%) exact matches, in which:
92 unique CDR3
6 unique J



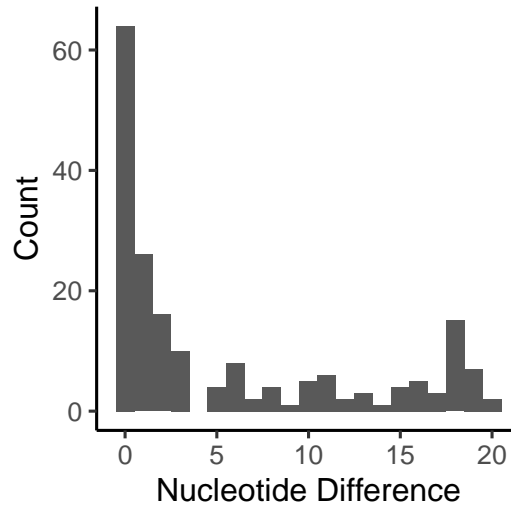
IGHV1-58*02

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



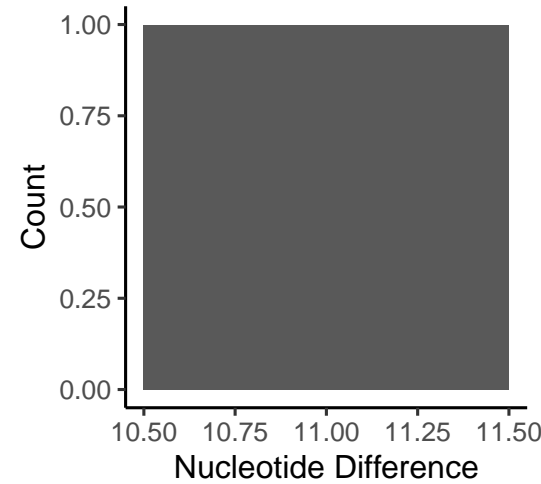
IGHV1-69*05

278 sequences assigned
64 (23%) exact matches, in which:
59 unique CDR3
6 unique J



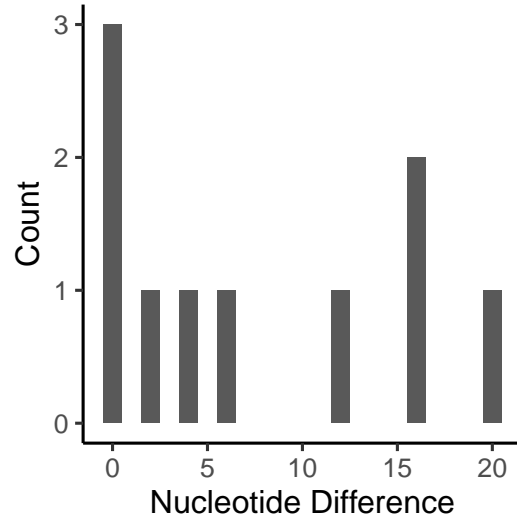
IGHV2-70*11_15

1 sequences assigned
No exact matches.



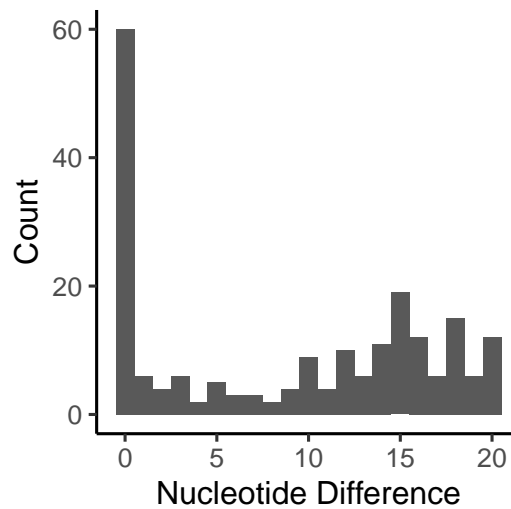
IGHV1-69-2*01

11 sequences assigned
3 (27.3%) exact matches, in which:
3 unique CDR3
1 unique J



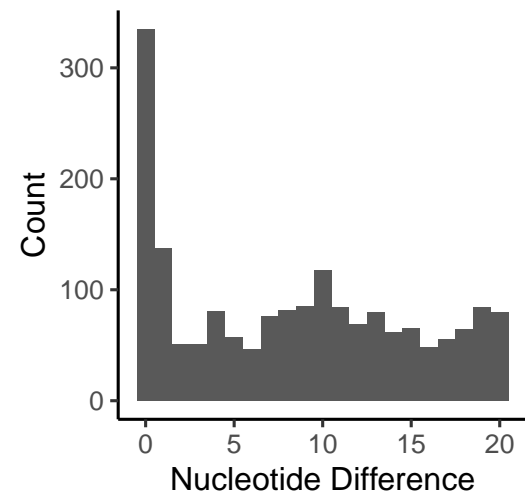
IGHV1-69*01_12_13

262 sequences assigned
60 (22.9%) exact matches, in which:
60 unique CDR3
5 unique J



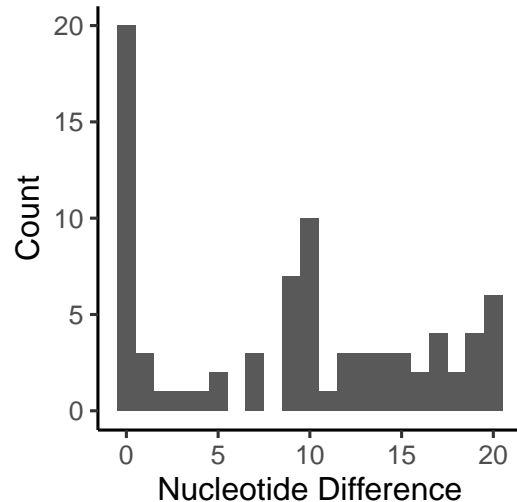
IGHV3-7*01

2165 sequences assigned
335 (15.5%) exact matches, in which:
302 unique CDR3
7 unique J



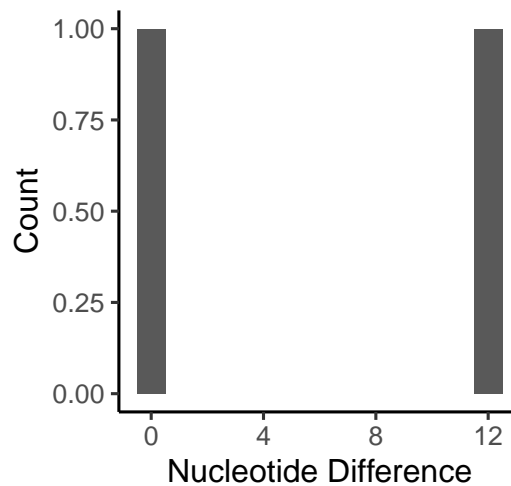
IGHV1-69*02

112 sequences assigned
20 (17.9%) exact matches, in which:
19 unique CDR3
5 unique J



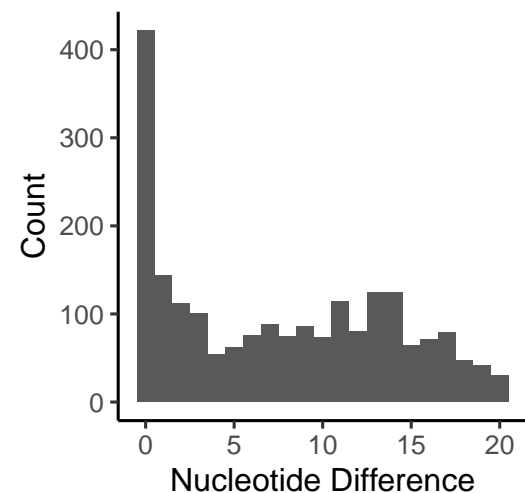
IGHV2-5*01

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



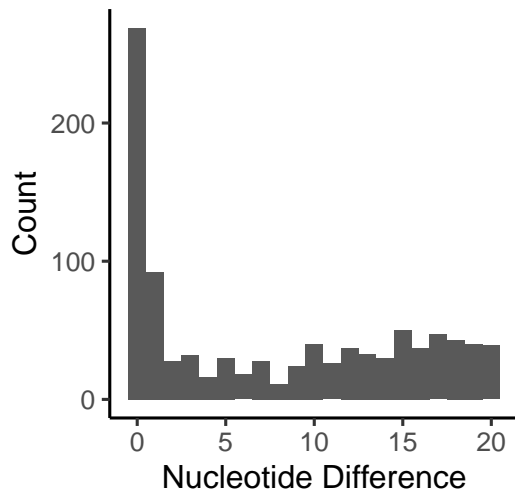
IGHV3-9*01

2239 sequences assigned
422 (18.8%) exact matches, in which:
386 unique CDR3
7 unique J



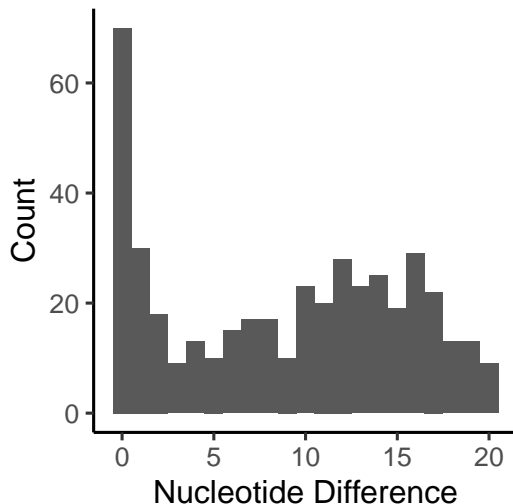
IGHV3-11*01

1137 sequences assigned
269 (23.7%) exact matches, in which:
242 unique CDR3
7 unique J



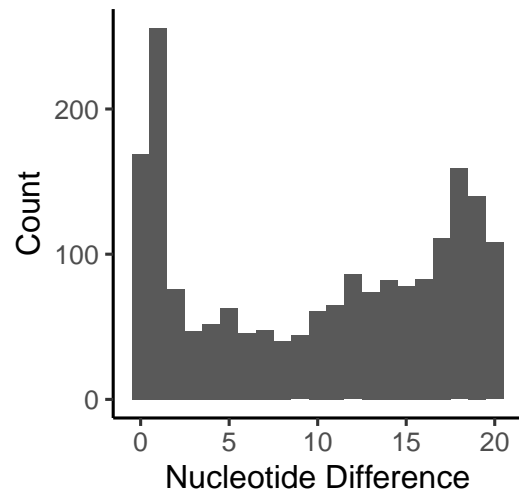
IGHV3-20*03_04

483 sequences assigned
70 (14.5%) exact matches, in which:
60 unique CDR3
7 unique J



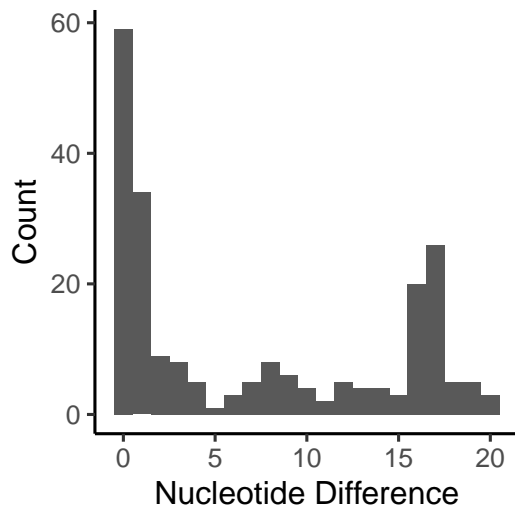
IGHV3-23*03

2562 sequences assigned
169 (6.6%) exact matches, in which:
161 unique CDR3
7 unique J



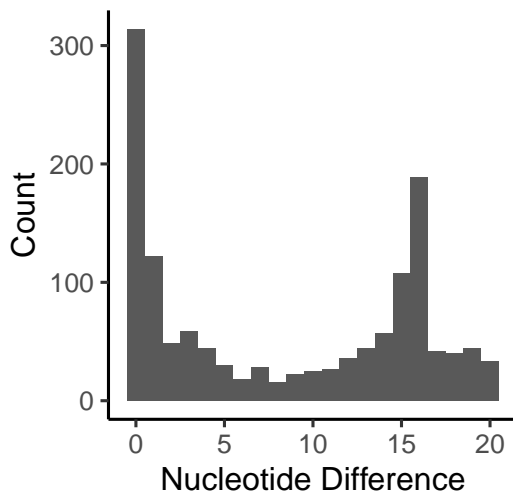
IGHV3-13*01

243 sequences assigned
59 (24.3%) exact matches, in which:
50 unique CDR3
5 unique J



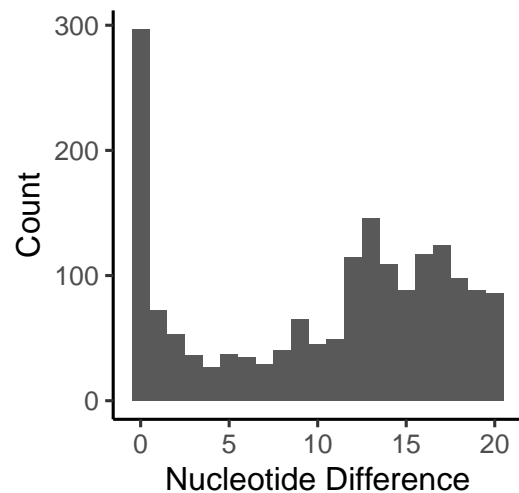
IGHV3-21*03

1528 sequences assigned
314 (20.5%) exact matches, in which:
280 unique CDR3
7 unique J



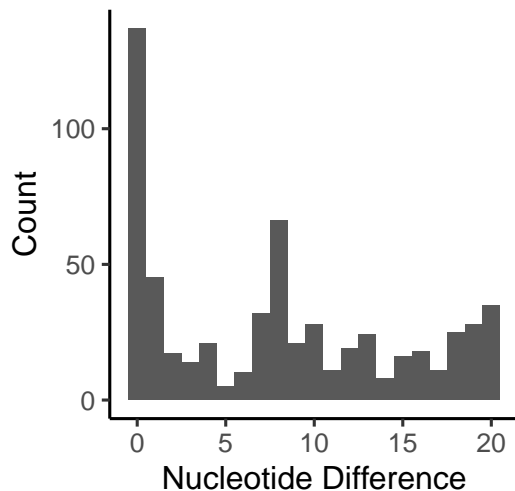
IGHV3-23*01_04

2300 sequences assigned
297 (12.9%) exact matches, in which:
277 unique CDR3
7 unique J



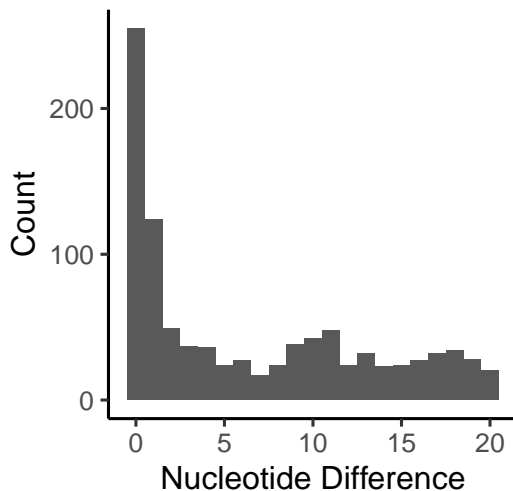
IGHV3-15*01_02

699 sequences assigned
137 (19.6%) exact matches, in which:
132 unique CDR3
7 unique J



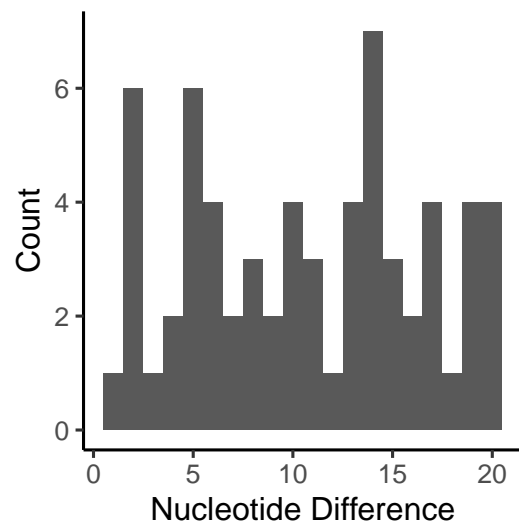
IGHV3-21*01_02

1077 sequences assigned
255 (23.7%) exact matches, in which:
226 unique CDR3
7 unique J



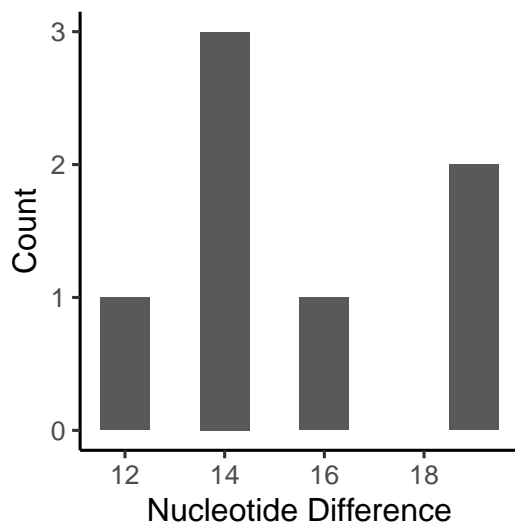
IGHV3-30-5*01

95 sequences assigned
No exact matches.



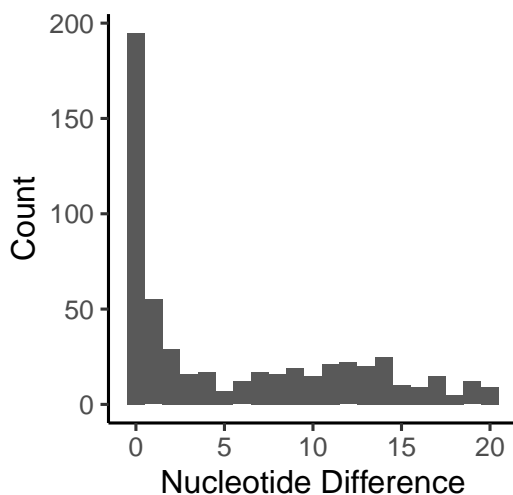
IGHV3-30-5*02

7 sequences assigned
No exact matches.



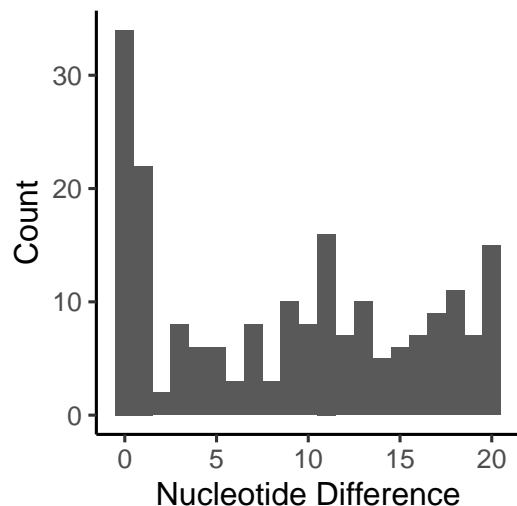
IGHV3-33*06

588 sequences assigned
195 (33.2%) exact matches, in which:
155 unique CDR3
6 unique J



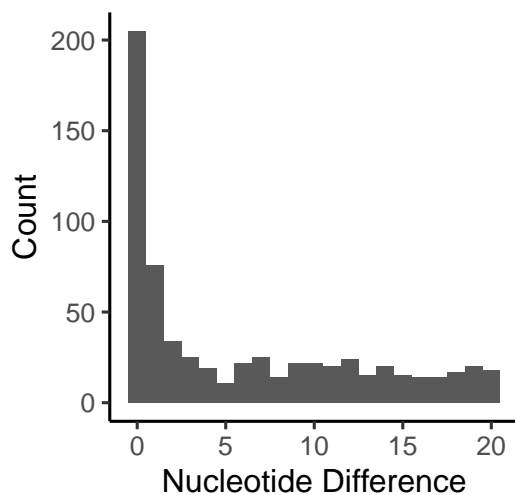
IGHV3-43*01

232 sequences assigned
34 (14.7%) exact matches, in which:
26 unique CDR3
6 unique J



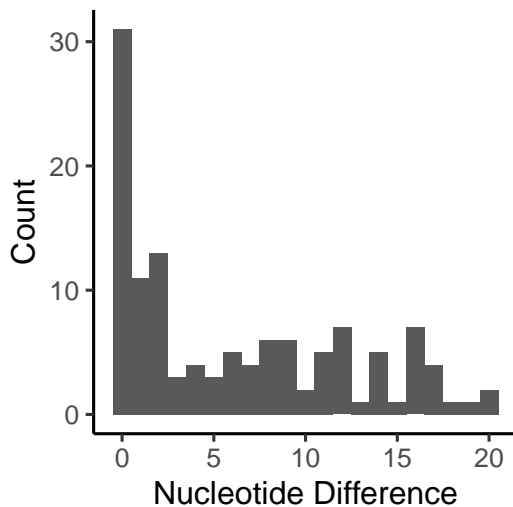
IGHV3-30*18_C170G_A'

711 sequences assigned
205 (28.8%) exact matches, in which:
184 unique CDR3
6 unique J



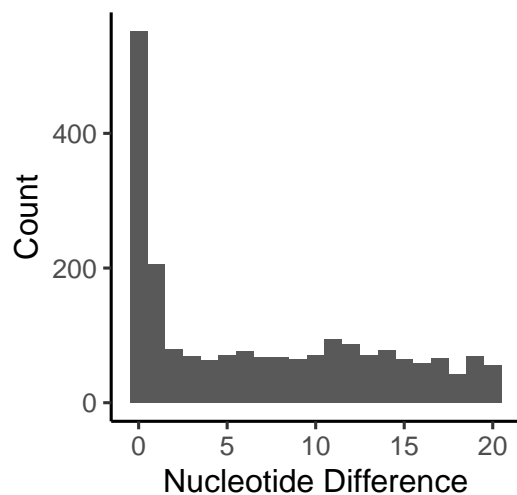
IGHV3-33*08

144 sequences assigned
31 (21.5%) exact matches, in which:
31 unique CDR3
6 unique J



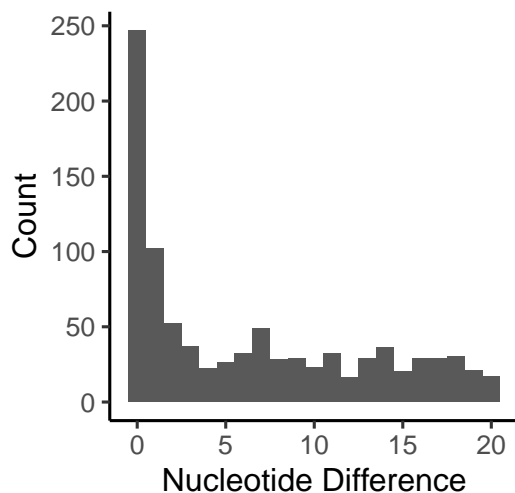
IGHV3-48*03

2379 sequences assigned
552 (23.2%) exact matches, in which:
519 unique CDR3
7 unique J



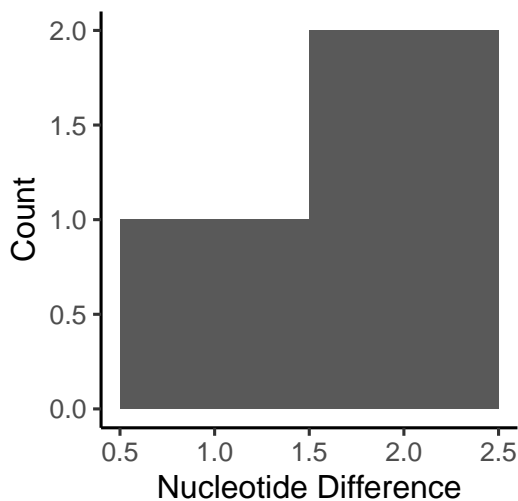
IGHV3-33*01

1023 sequences assigned
247 (24.1%) exact matches, in which:
211 unique CDR3
7 unique J



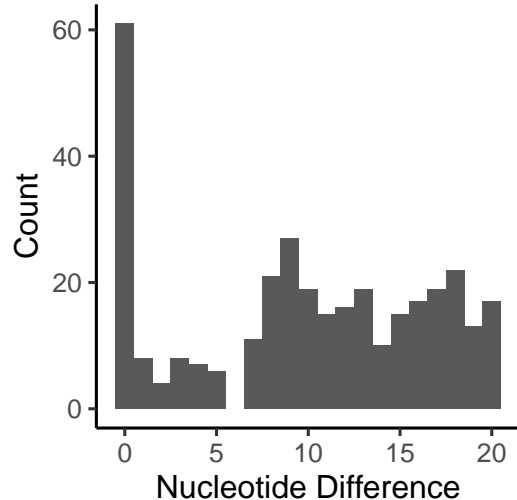
IGHV3-35*02

3 sequences assigned
No exact matches.



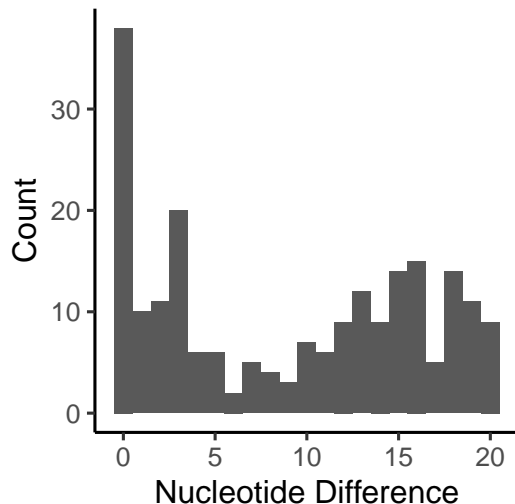
IGHV3-49*04

471 sequences assigned
61 (13%) exact matches, in which:
58 unique CDR3
5 unique J



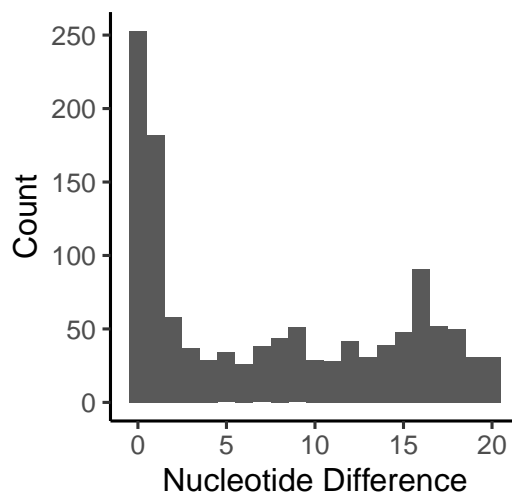
IGHV3-49*03_05

265 sequences assigned
38 (14.3%) exact matches, in which:
36 unique CDR3
5 unique J



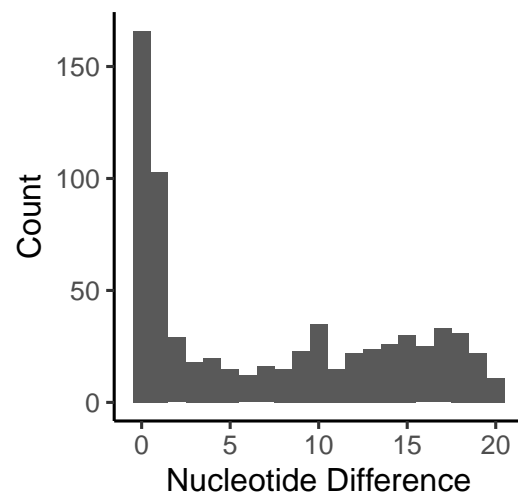
IGHV3-53*05

1491 sequences assigned
253 (17%) exact matches, in which:
202 unique CDR3
7 unique J



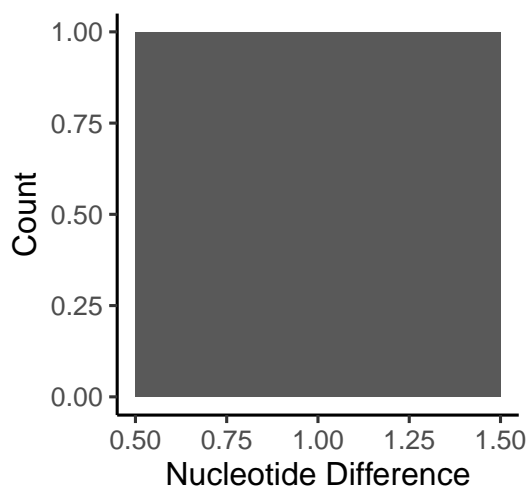
IGHV3-66*01

892 sequences assigned
166 (18.6%) exact matches, in which:
125 unique CDR3
7 unique J



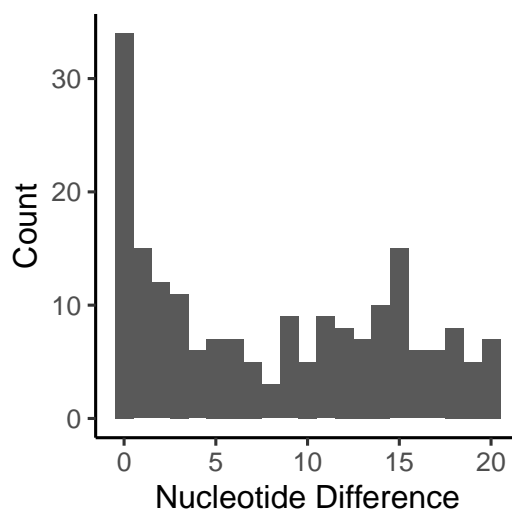
IGHV3-52*01_03

1 sequences assigned
No exact matches.



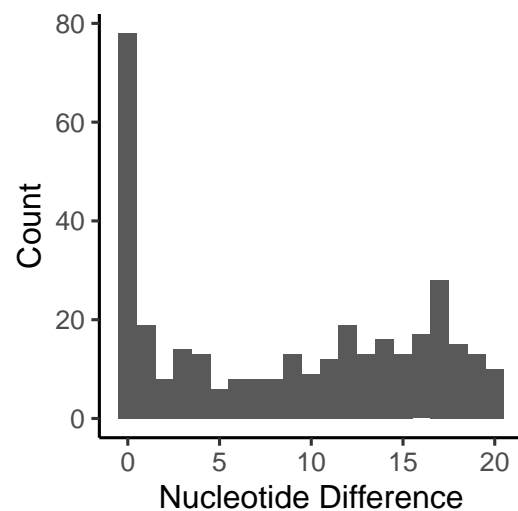
IGHV3-64*01

218 sequences assigned
34 (15.6%) exact matches, in which:
33 unique CDR3
5 unique J



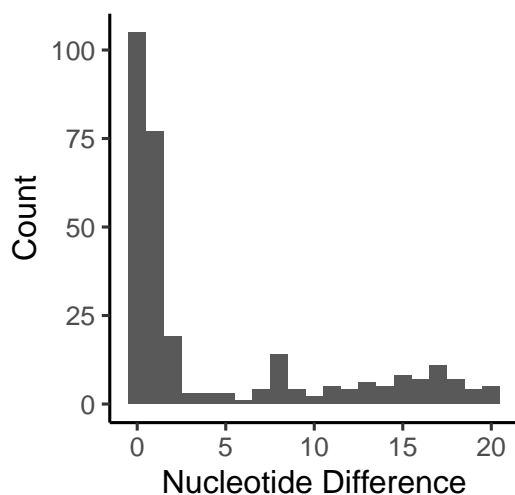
IGHV3-66*02

412 sequences assigned
78 (18.9%) exact matches, in which:
72 unique CDR3
6 unique J



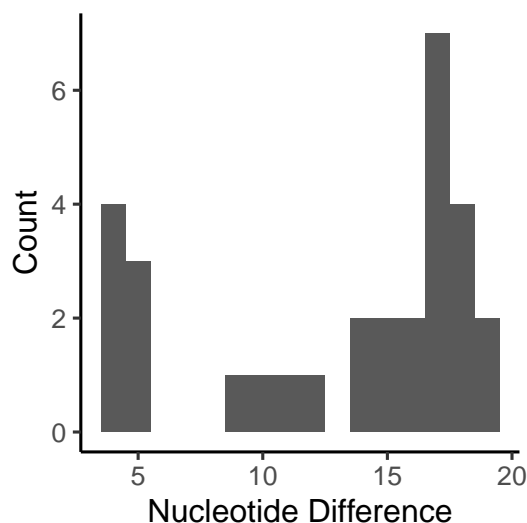
IGHV3-53*04

313 sequences assigned
105 (33.5%) exact matches, in which:
84 unique CDR3
6 unique J



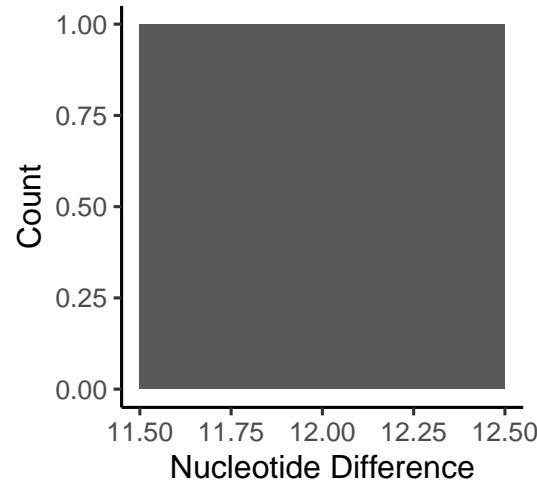
IGHV3-64*02_07

57 sequences assigned
No exact matches.



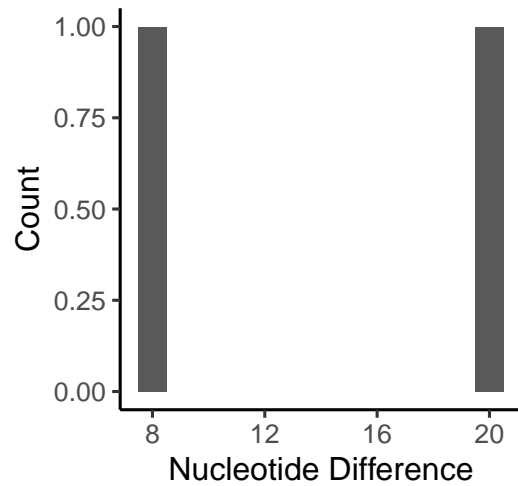
IGHV3-69-1*01

2 sequences assigned
No exact matches.



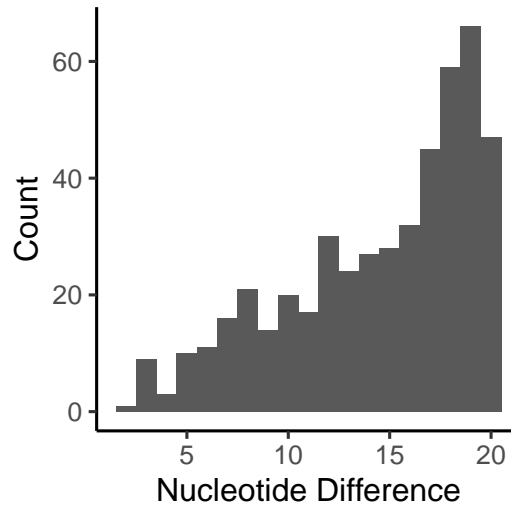
IGHV3-69-1*02

31 sequences assigned
No exact matches.



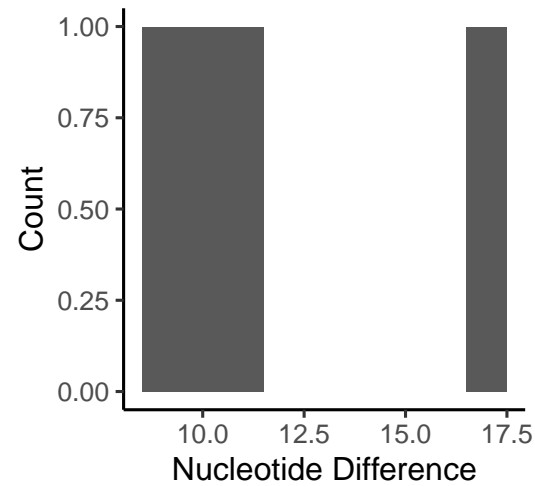
IGHV3-74*03

695 sequences assigned
No exact matches.



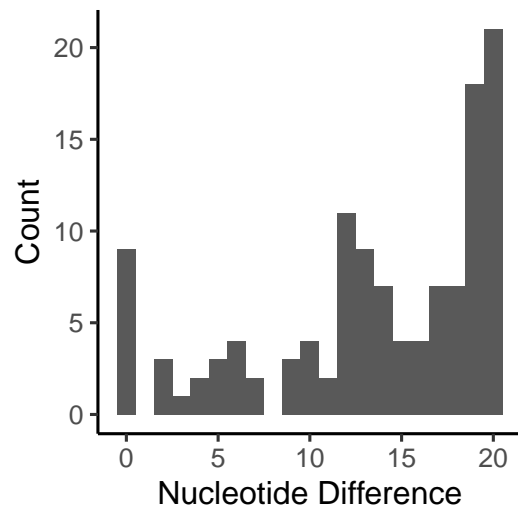
IGHV3-NL1*01

5 sequences assigned
No exact matches.



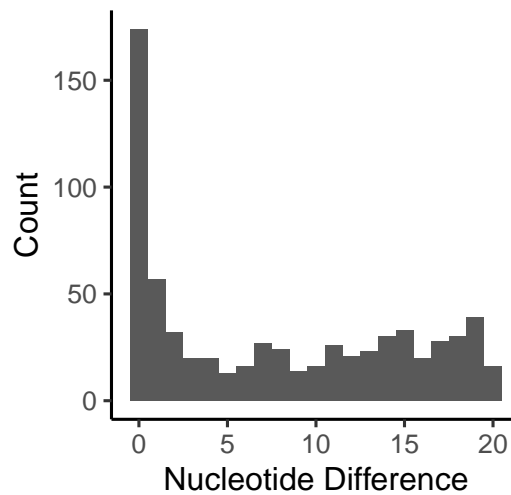
IGHV3-72*01

152 sequences assigned
9 (5.9%) exact matches, in which:
9 unique CDR3
3 unique J



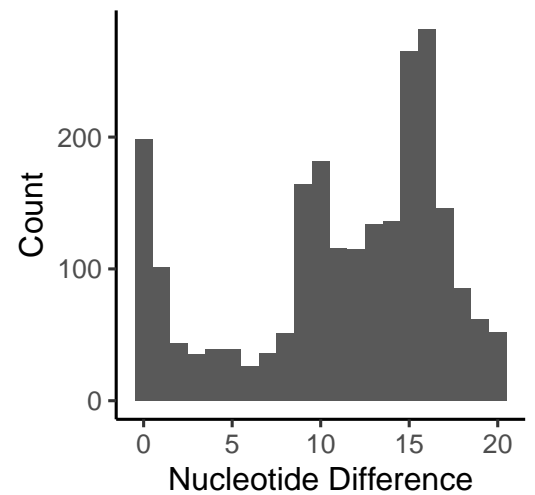
IGHV3-74*01_02

792 sequences assigned
174 (22%) exact matches, in which:
170 unique CDR3
7 unique J



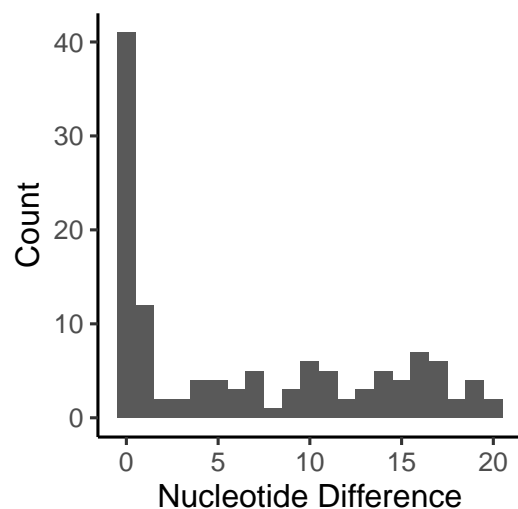
IGHV4-4*02_03

2687 sequences assigned
198 (7.4%) exact matches, in which:
152 unique CDR3
7 unique J



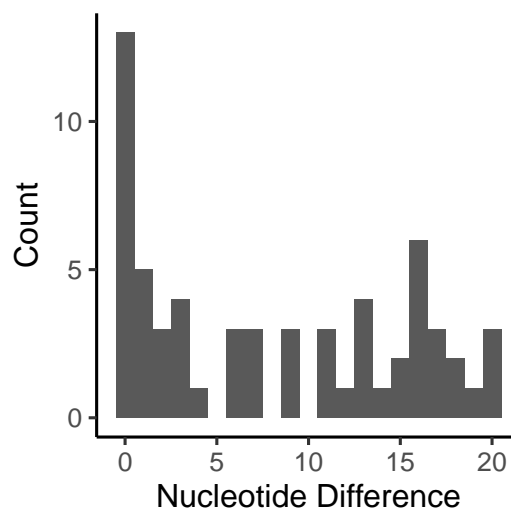
IGHV3-73*01_02

142 sequences assigned
41 (28.9%) exact matches, in which:
41 unique CDR3
7 unique J



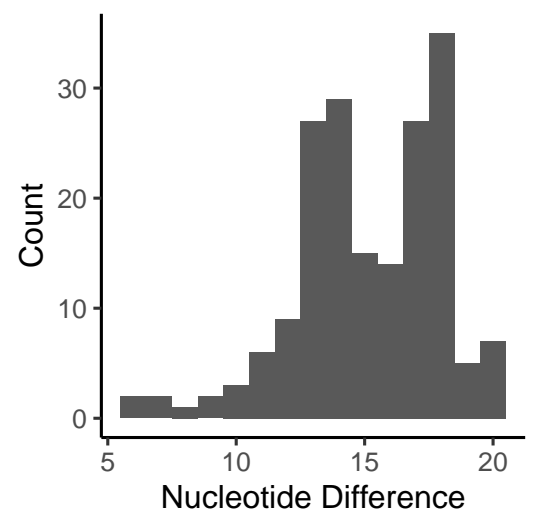
IGHV3-43D*03

70 sequences assigned
13 (18.6%) exact matches, in which:
13 unique CDR3
2 unique J



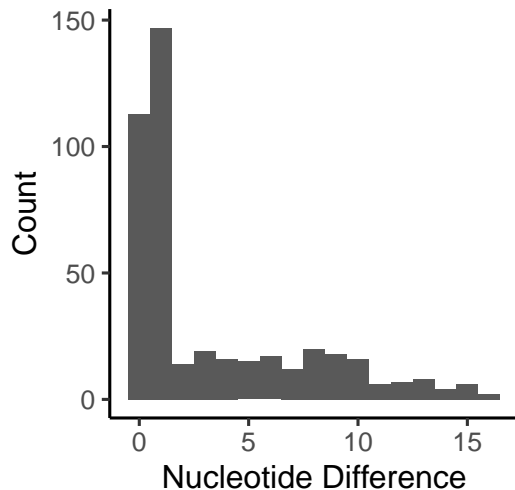
IGHV4-28*03

217 sequences assigned
No exact matches.



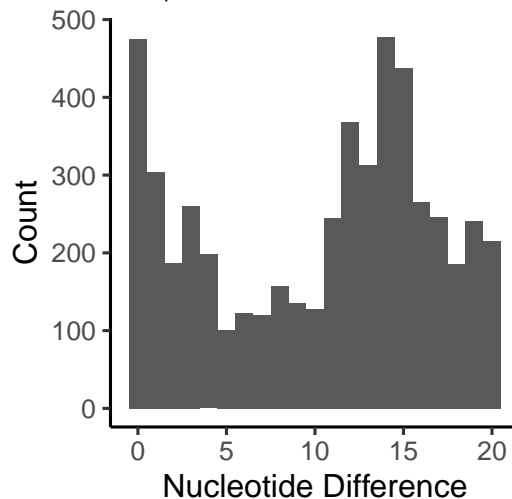
IGHV4-28*02_05_G80T_

440 sequences assigned
113 (25.7%) exact matches, in which:
75 unique CDR3
7 unique J



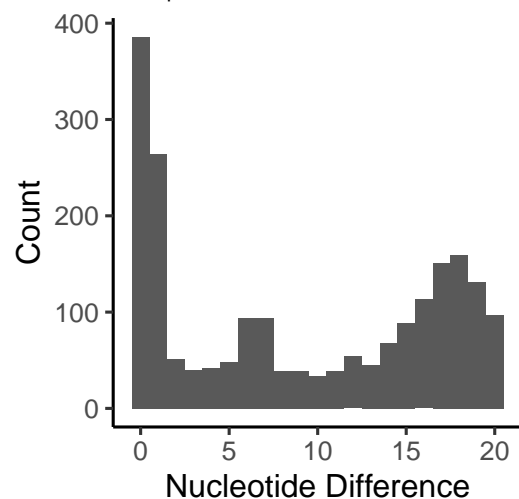
IGHV4-31*02

6306 sequences assigned
475 (7.5%) exact matches, in which:
361 unique CDR3
7 unique J



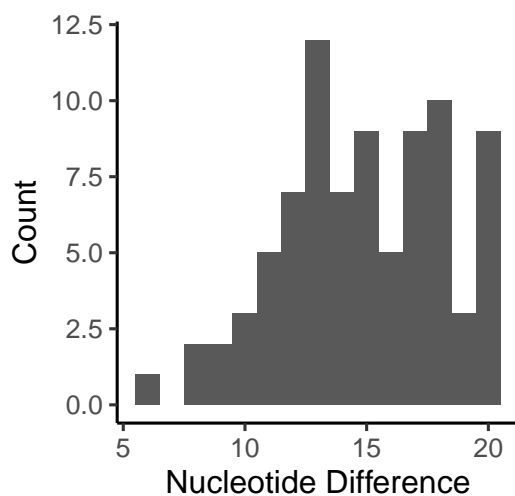
IGHV4-38-2*02

2681 sequences assigned
386 (14.4%) exact matches, in which:
282 unique CDR3
7 unique J



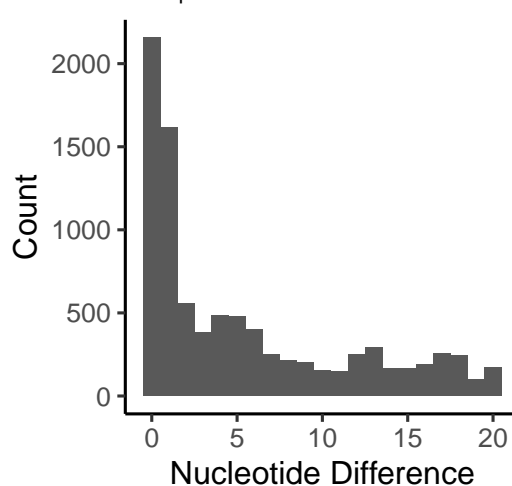
IGHV4-30-4*08

138 sequences assigned
No exact matches.



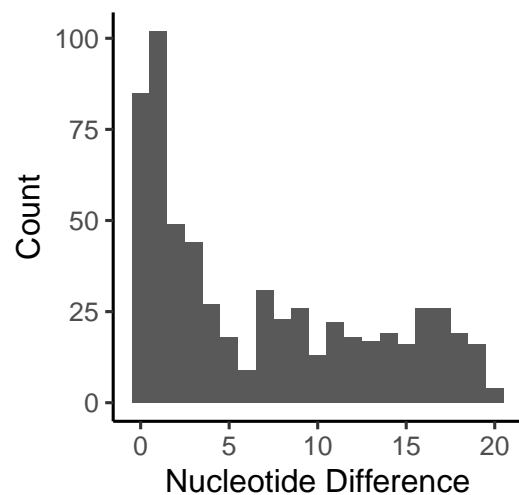
IGHV4-34*01_02

9853 sequences assigned
2156 (21.9%) exact matches, in which:
1517 unique CDR3
7 unique J



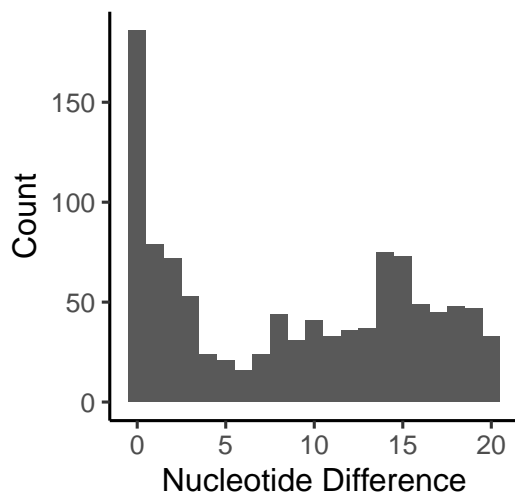
IGHV4-38-2*02_A291G

700 sequences assigned
85 (12.1%) exact matches, in which:
80 unique CDR3
7 unique J



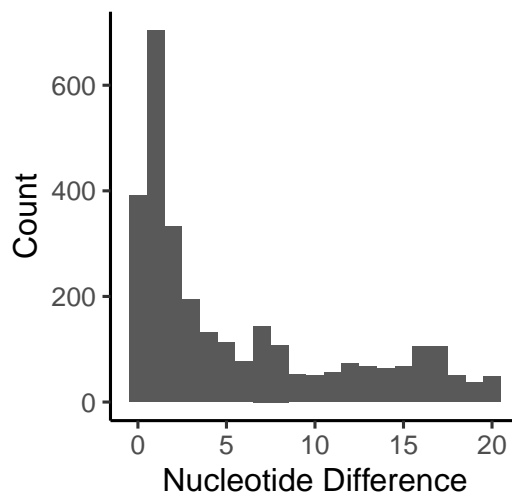
IGHV4-30-2*01_C285T_

1345 sequences assigned
186 (13.8%) exact matches, in which:
135 unique CDR3
7 unique J



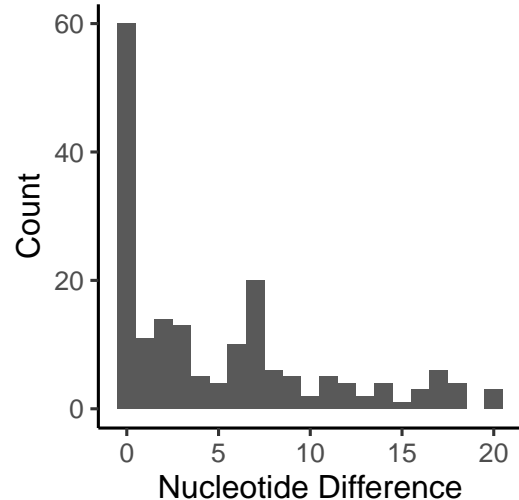
IGHV4-34*01_02_T300C

3204 sequences assigned
392 (12.2%) exact matches, in which:
375 unique CDR3
7 unique J



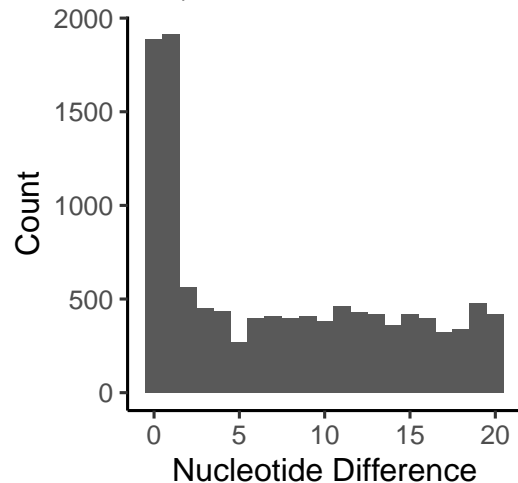
IGHV4-38-2*02_C288T_A

198 sequences assigned
60 (30.3%) exact matches, in which:
58 unique CDR3
6 unique J



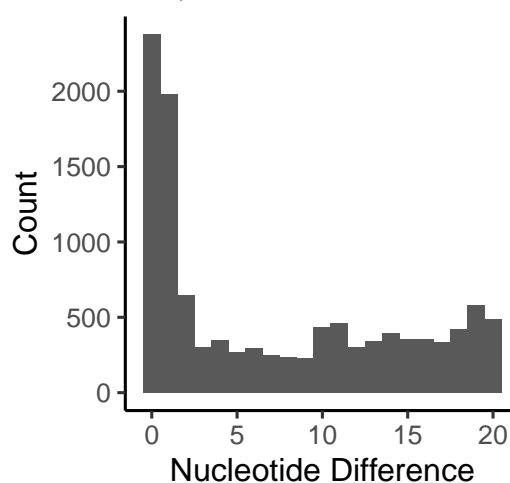
IGHV4-39*07

15615 sequences assigned
1890 (12.1%) exact matches, in which:
1325 unique CDR3
7 unique J



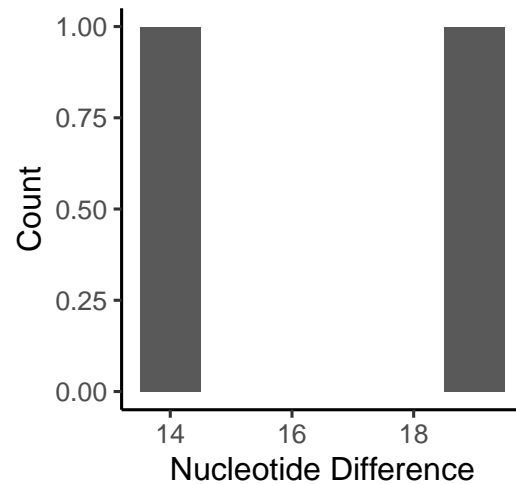
IGHV4-59*02_G88A

13323 sequences assigned
2377 (17.8%) exact matches, in which:
1647 unique CDR3
7 unique J



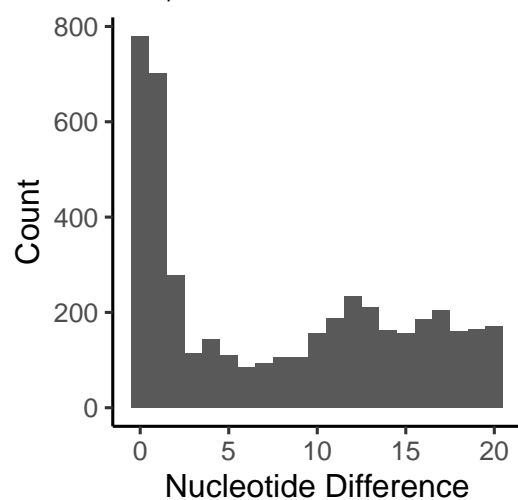
IGHV4/OR15-8*02

73 sequences assigned
No exact matches.



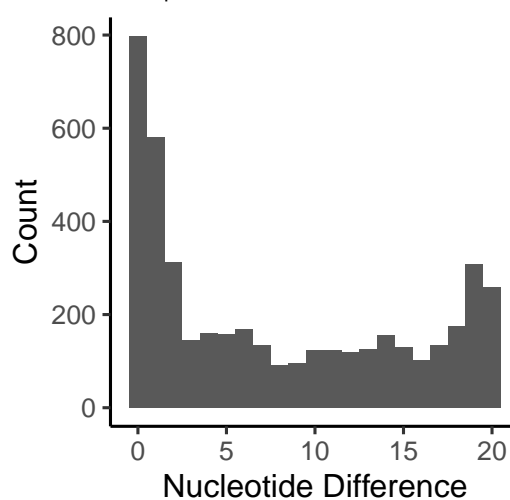
IGHV4-59*08

5641 sequences assigned
780 (13.8%) exact matches, in which:
586 unique CDR3
7 unique J



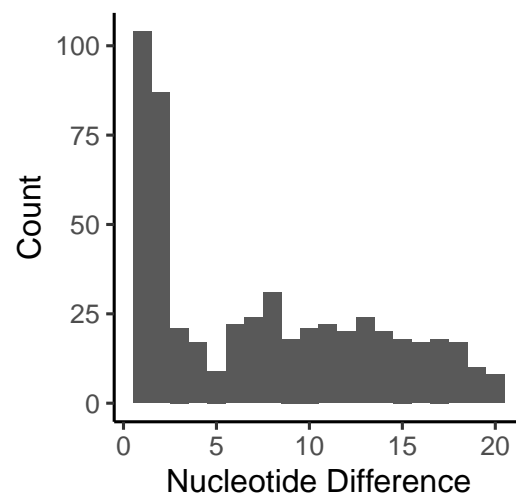
IGHV4-61*02

5231 sequences assigned
798 (15.3%) exact matches, in which:
556 unique CDR3
7 unique J



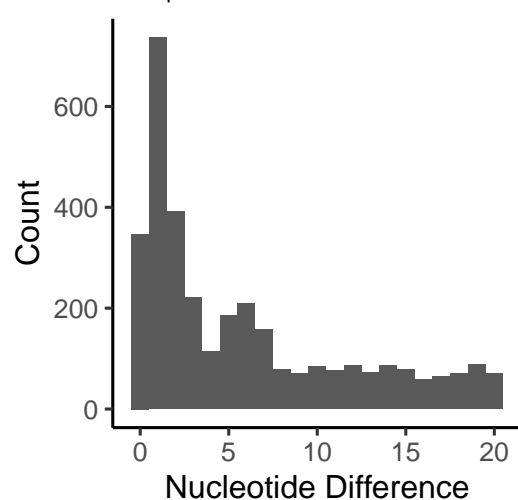
IGHV5-51*07

573 sequences assigned
No exact matches.



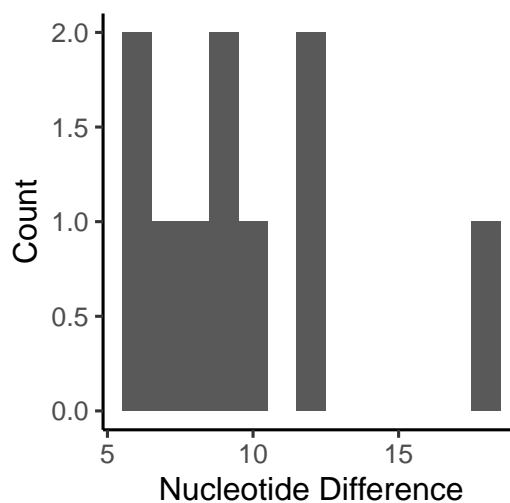
IGHV4-59*12

3758 sequences assigned
347 (9.2%) exact matches, in which:
329 unique CDR3
7 unique J



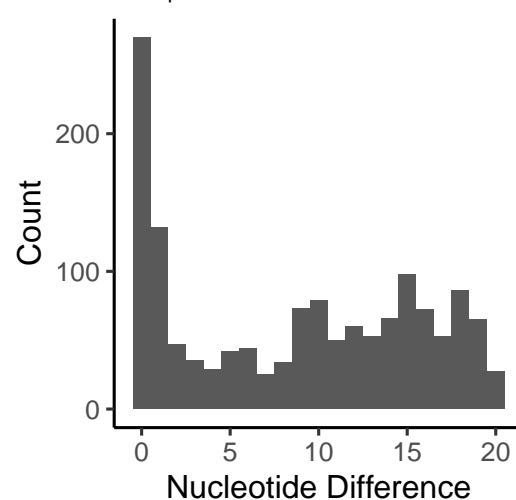
IGHV4/OR15-8*01

14 sequences assigned
No exact matches.



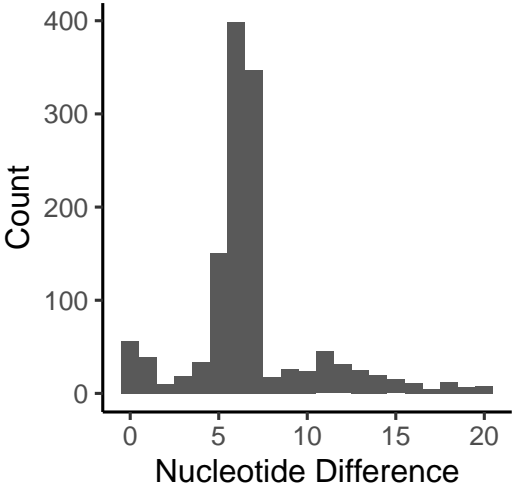
IGHV5-51*01_03

1573 sequences assigned
270 (17.2%) exact matches, in which:
228 unique CDR3
7 unique J



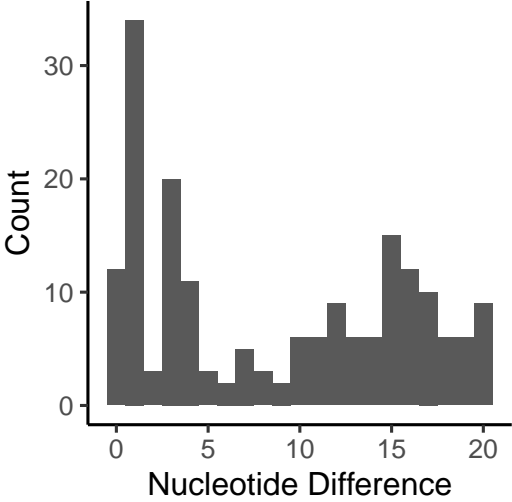
IGHV6-1*01_02

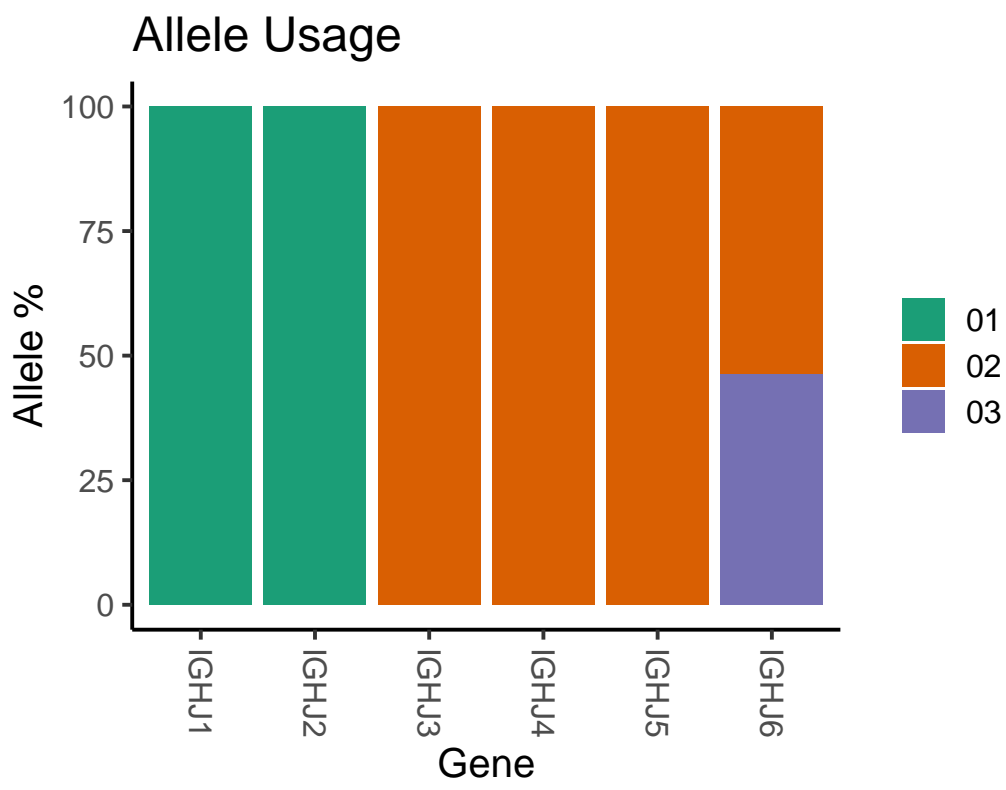
1345 sequences assigned
56 (4.2%) exact matches, in which:
47 unique CDR3
6 unique J



IGHV7-4-1*02

244 sequences assigned
12 (4.9%) exact matches, in which:
12 unique CDR3
3 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.