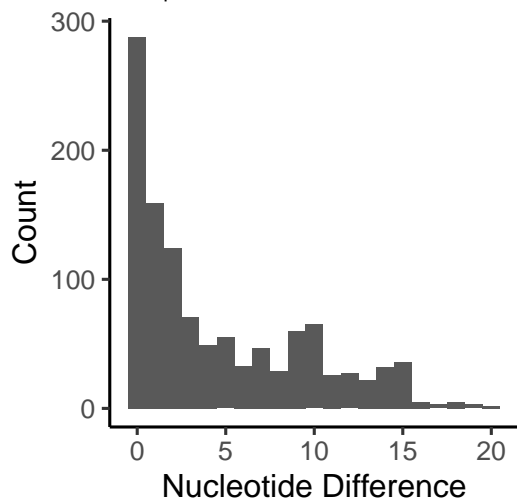


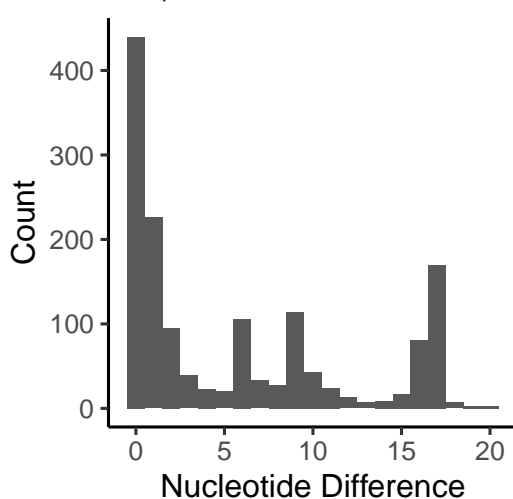
IGHV1-2*02

1169 sequences assigned
288 (24.6%) exact matches, in which:
251 unique CDR3
7 unique J



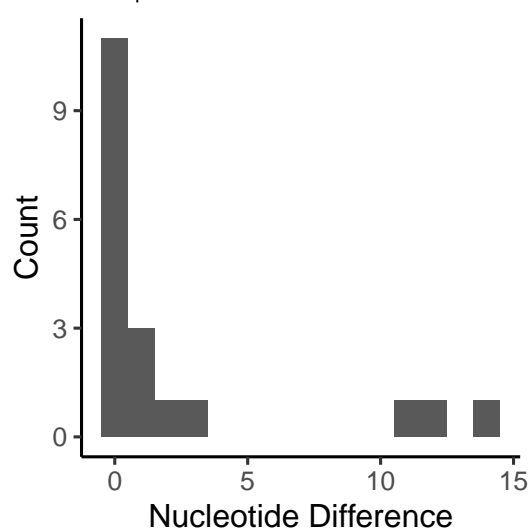
IGHV1-18*01

1793 sequences assigned
440 (24.5%) exact matches, in which:
387 unique CDR3
7 unique J



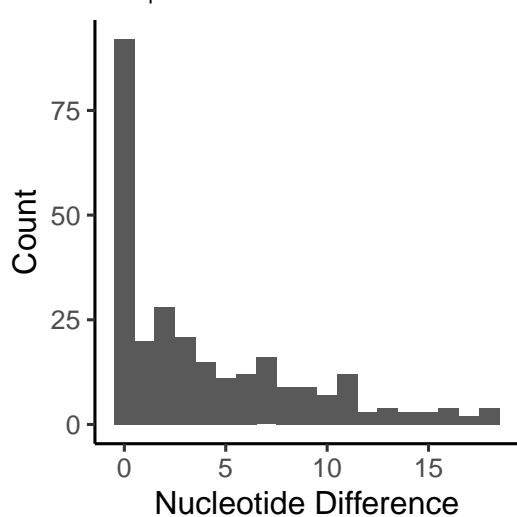
IGHV1-58*02

19 sequences assigned
11 (57.9%) exact matches, in which:
11 unique CDR3
3 unique J



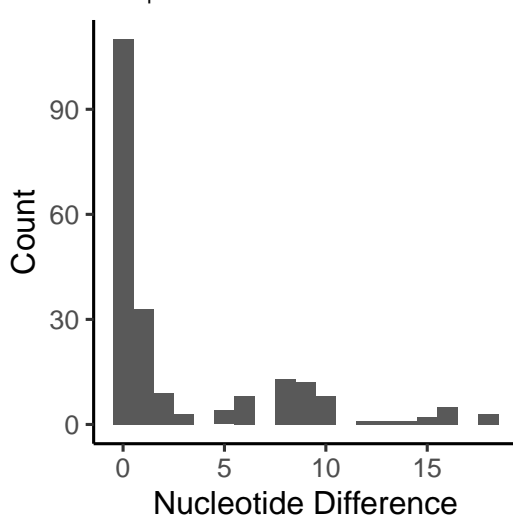
IGHV1-3*01_05

1045 sequences assigned
92 (8.8%) exact matches, in which:
84 unique CDR3
6 unique J



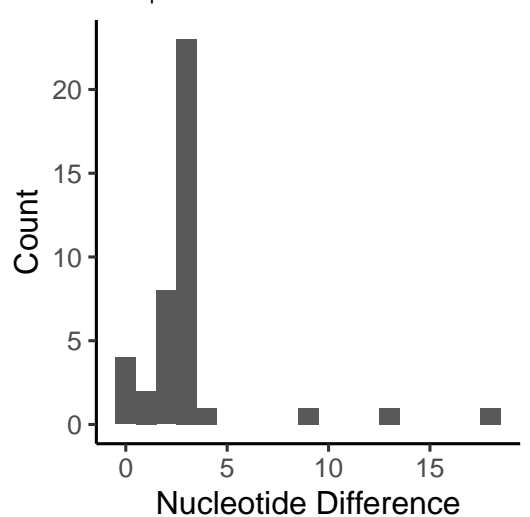
IGHV1-24*01

216 sequences assigned
110 (50.9%) exact matches, in which:
104 unique CDR3
7 unique J



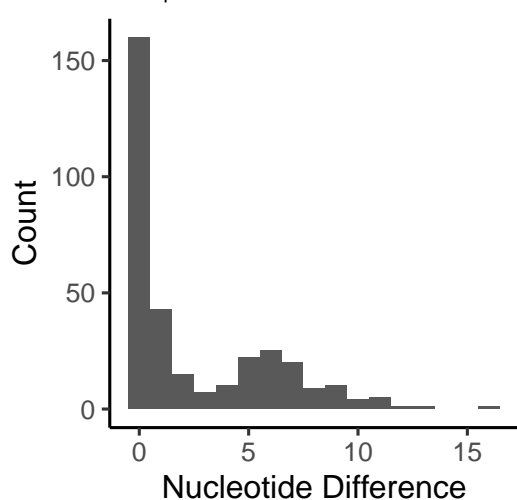
IGHV1-58*01_03

41 sequences assigned
4 (9.8%) exact matches, in which:
3 unique CDR3
2 unique J



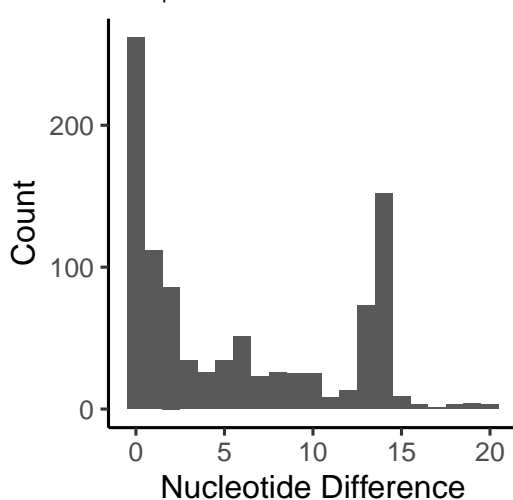
IGHV1-8*01

333 sequences assigned
160 (48%) exact matches, in which:
146 unique CDR3
6 unique J



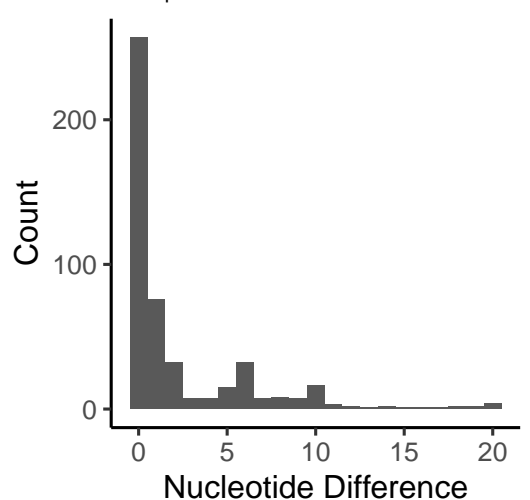
IGHV1-46*01

993 sequences assigned
262 (26.4%) exact matches, in which:
248 unique CDR3
7 unique J



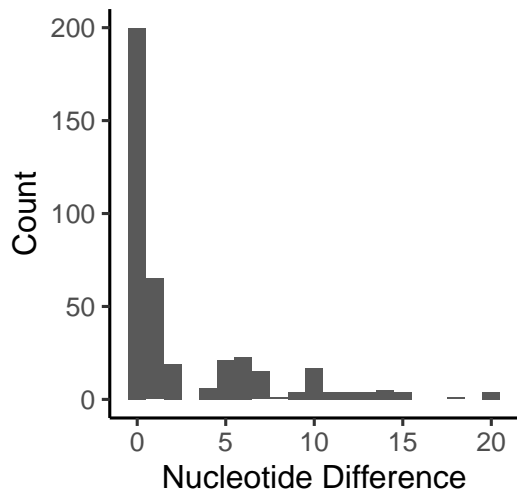
IGHV1-69*01_12_13

501 sequences assigned
257 (51.3%) exact matches, in which:
253 unique CDR3
7 unique J



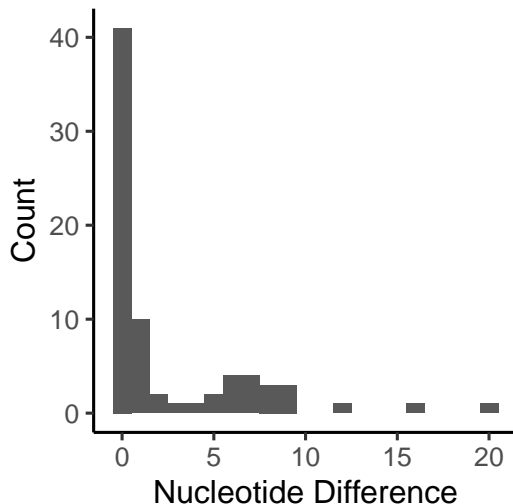
IGHV1-69*04_09

410 sequences assigned
200 (48.8%) exact matches, in which:
190 unique CDR3
6 unique J



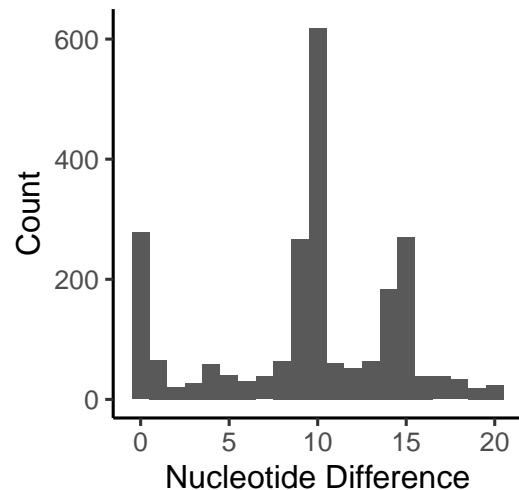
IGHV2-26*01

74 sequences assigned
41 (55.4%) exact matches, in which:
33 unique CDR3
6 unique J



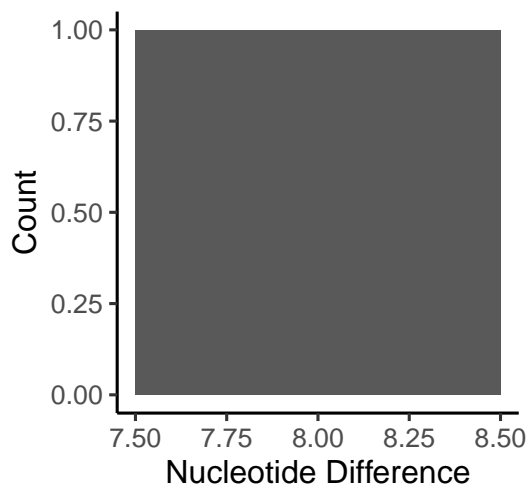
IGHV3-7*01

2588 sequences assigned
278 (10.7%) exact matches, in which:
162 unique CDR3
6 unique J



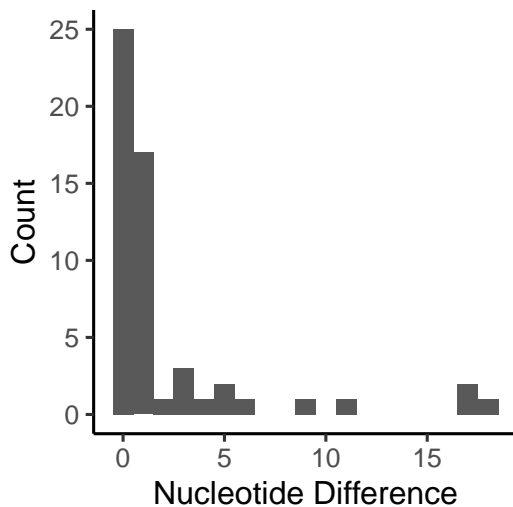
IGHV1-NL1*01

1 sequences assigned
No exact matches.



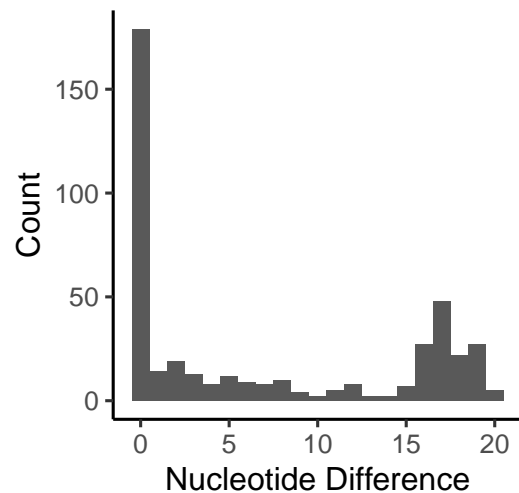
IGHV2-70*01

55 sequences assigned
25 (45.5%) exact matches, in which:
19 unique CDR3
5 unique J



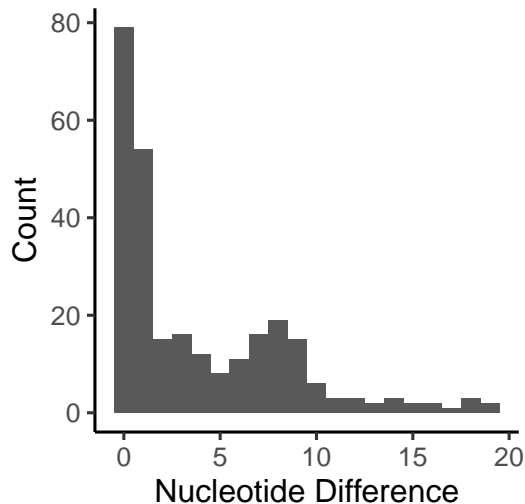
IGHV3-9*01

471 sequences assigned
179 (38%) exact matches, in which:
96 unique CDR3
6 unique J



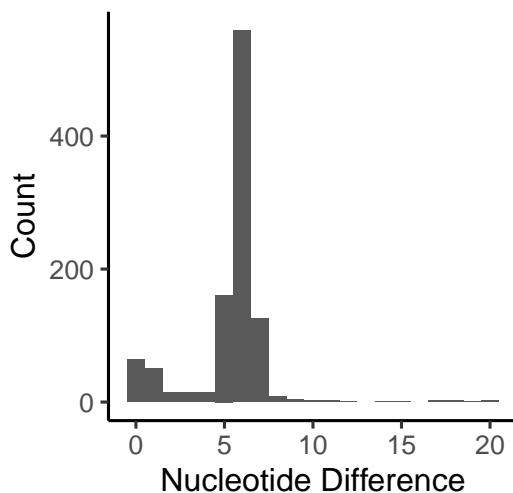
IGHV2-5*02

278 sequences assigned
79 (28.4%) exact matches, in which:
72 unique CDR3
6 unique J



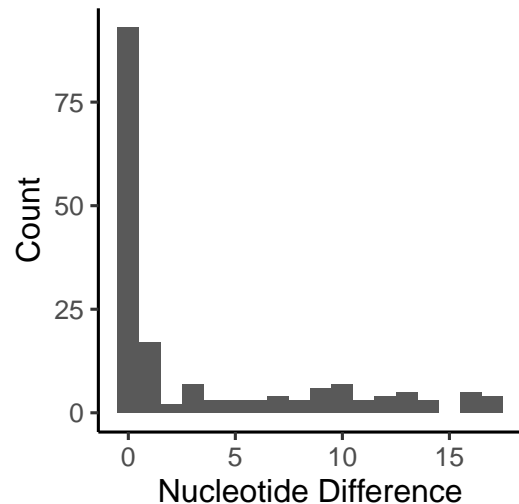
IGHV2-70*11_15

1040 sequences assigned
64 (6.2%) exact matches, in which:
59 unique CDR3
6 unique J



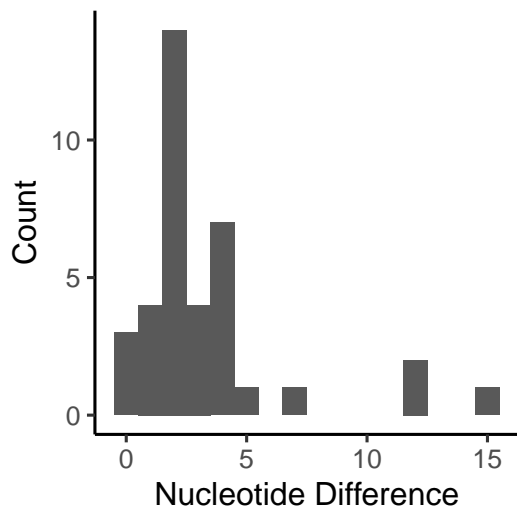
IGHV3-11*01

310 sequences assigned
93 (30%) exact matches, in which:
51 unique CDR3
4 unique J



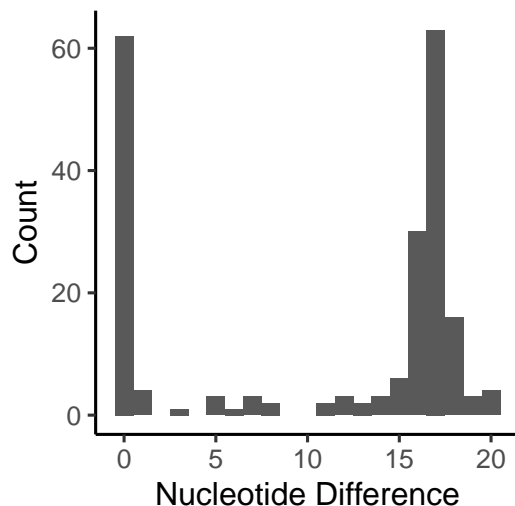
IGHV3-11*04

52 sequences assigned
3 (5.8%) exact matches, in which:
3 unique CDR3
2 unique J



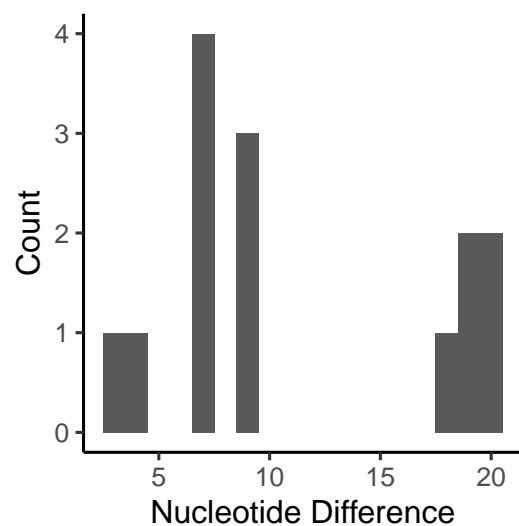
IGHV3-13*04

234 sequences assigned
62 (26.5%) exact matches, in which:
30 unique CDR3
4 unique J



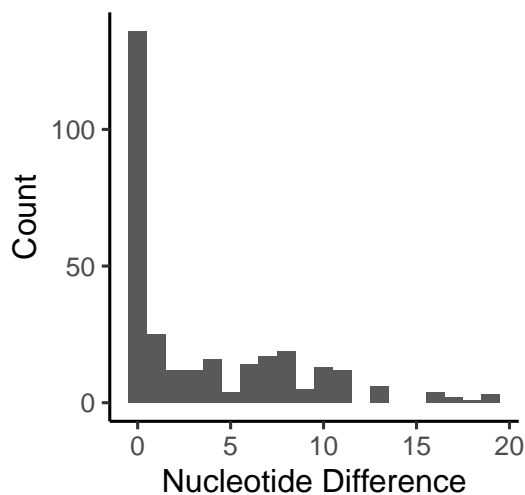
IGHV3-20*03_04

46 sequences assigned
No exact matches.



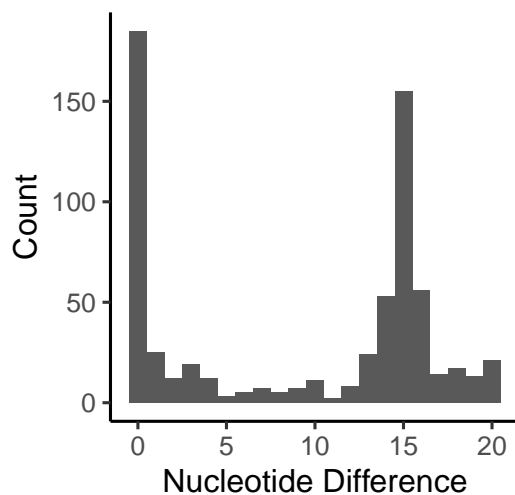
IGHV3-11*06_T300C

385 sequences assigned
136 (35.3%) exact matches, in which:
78 unique CDR3
6 unique J



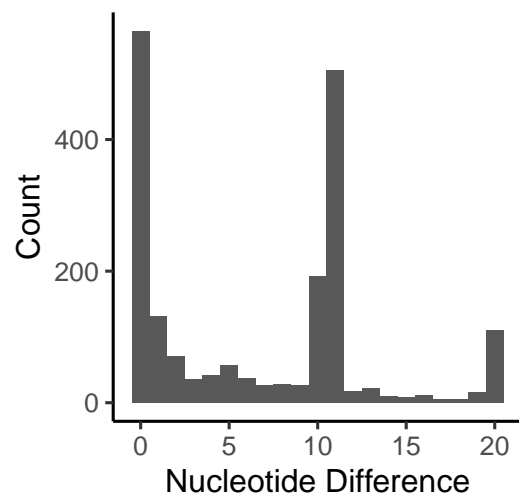
IGHV3-15*01_02

940 sequences assigned
185 (19.7%) exact matches, in which:
102 unique CDR3
6 unique J



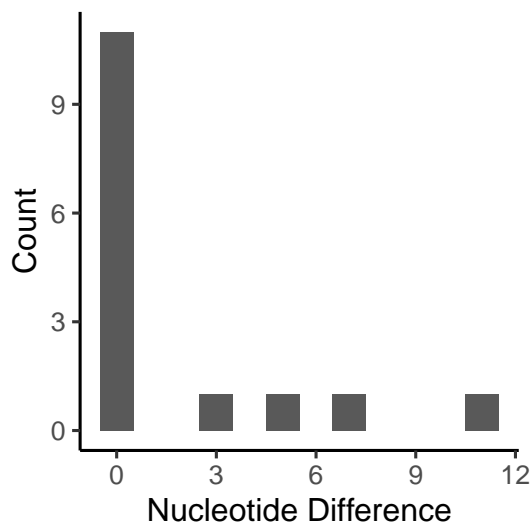
IGHV3-21*01_02

2586 sequences assigned
565 (21.8%) exact matches, in which:
316 unique CDR3
7 unique J



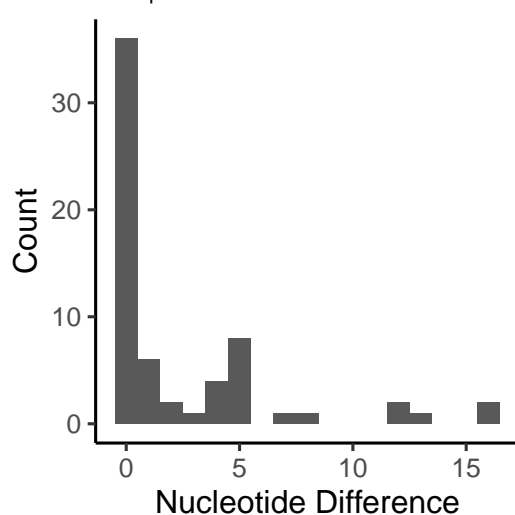
IGHV3-13*01

15 sequences assigned
11 (73.3%) exact matches, in which:
6 unique CDR3
3 unique J



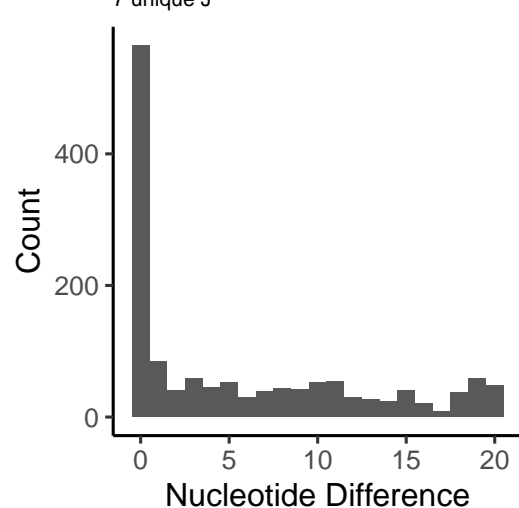
IGHV3-20*01_02

311 sequences assigned
36 (11.6%) exact matches, in which:
21 unique CDR3
5 unique J



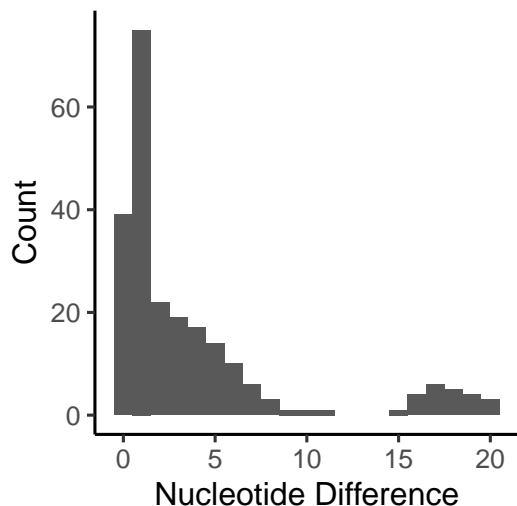
IGHV3-23*01_04

2519 sequences assigned
565 (22.4%) exact matches, in which:
313 unique CDR3
7 unique J



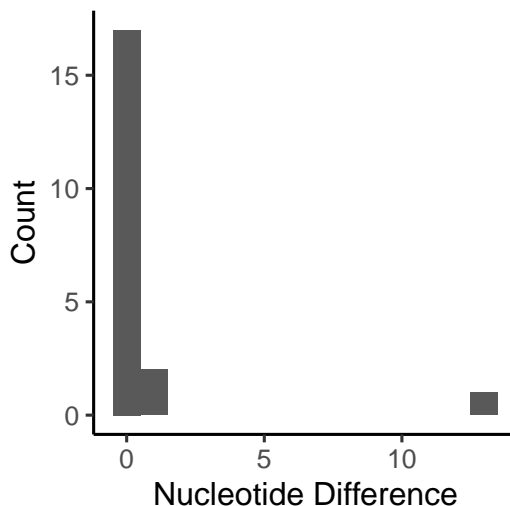
IGHV3-23*01_04_C300T_

576 sequences assigned
39 (6.8%) exact matches, in which:
36 unique CDR3
6 unique J



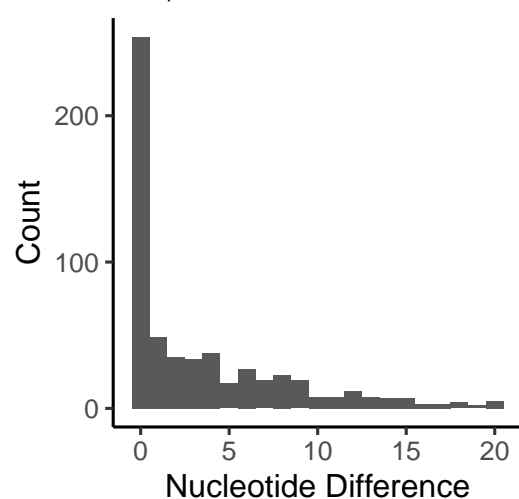
IGHV3-43*01

20 sequences assigned
17 (85%) exact matches, in which:
10 unique CDR3
5 unique J



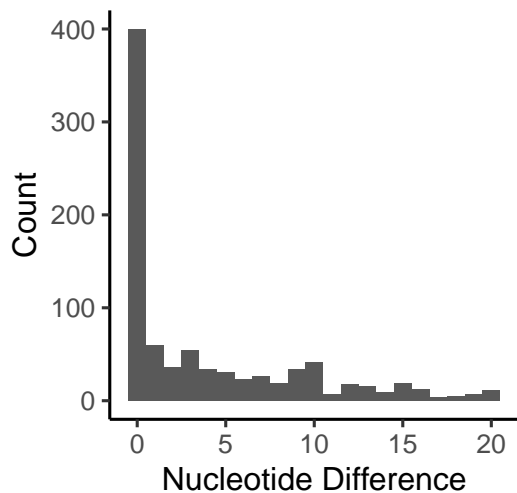
IGHV3-48*03

602 sequences assigned
254 (42.2%) exact matches, in which:
146 unique CDR3
7 unique J



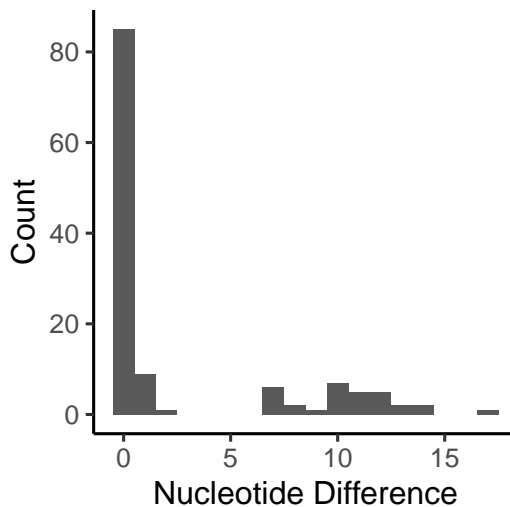
IGHV3-30-3*01

912 sequences assigned
400 (43.9%) exact matches, in which:
244 unique CDR3
7 unique J



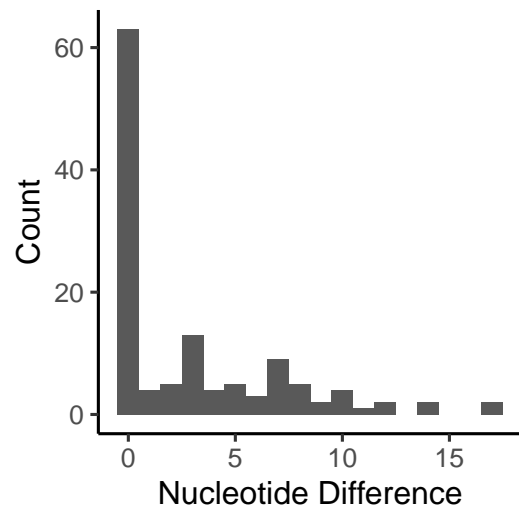
IGHV3-43*02

126 sequences assigned
85 (67.5%) exact matches, in which:
48 unique CDR3
5 unique J



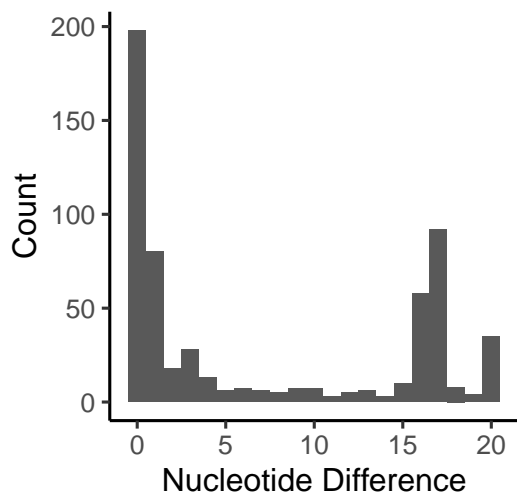
IGHV3-49*04

124 sequences assigned
63 (50.8%) exact matches, in which:
39 unique CDR3
5 unique J



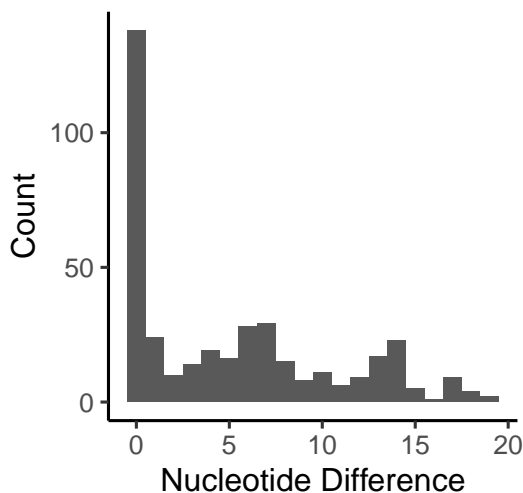
IGHV3-33*01

1222 sequences assigned
198 (16.2%) exact matches, in which:
118 unique CDR3
7 unique J



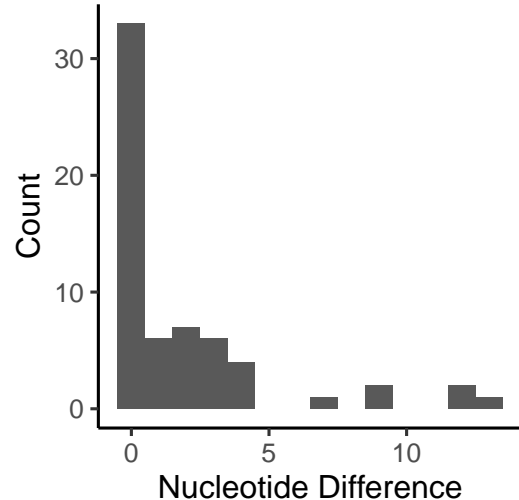
IGHV3-48*02

395 sequences assigned
138 (34.9%) exact matches, in which:
68 unique CDR3
5 unique J



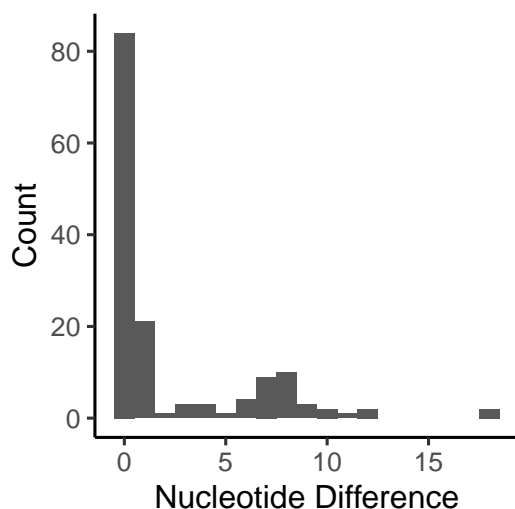
IGHV3-49*03_05

62 sequences assigned
33 (53.2%) exact matches, in which:
20 unique CDR3
4 unique J



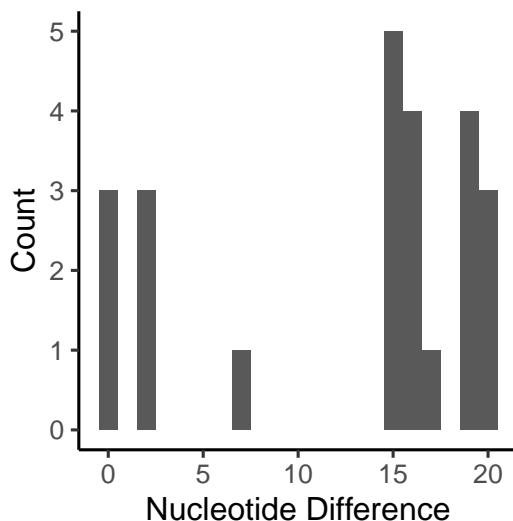
IGHV3-53*04

148 sequences assigned
84 (56.8%) exact matches, in which:
40 unique CDR3
5 unique J



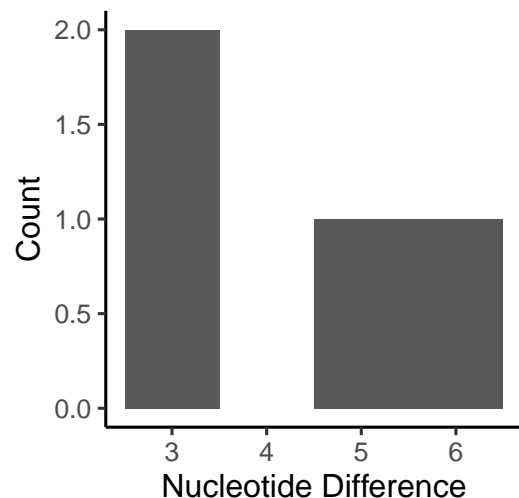
IGHV3-64*04

746 sequences assigned
3 (0.4%) exact matches, in which:
3 unique CDR3
2 unique J



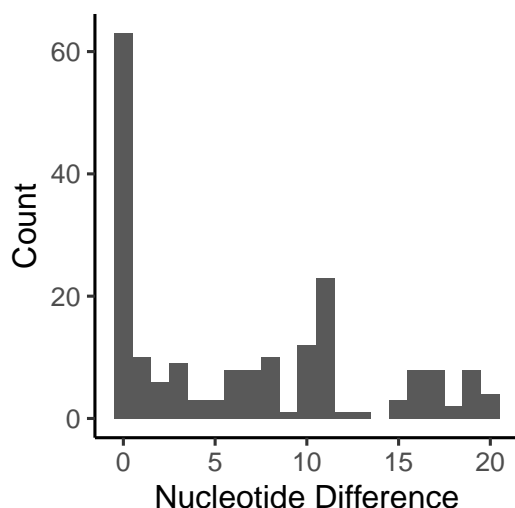
IGHV3-69-1*01

7 sequences assigned
No exact matches.



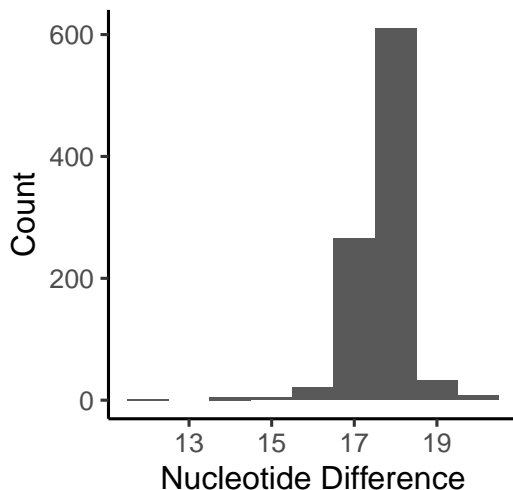
IGHV3-53*01_02

215 sequences assigned
63 (29.3%) exact matches, in which:
36 unique CDR3
7 unique J



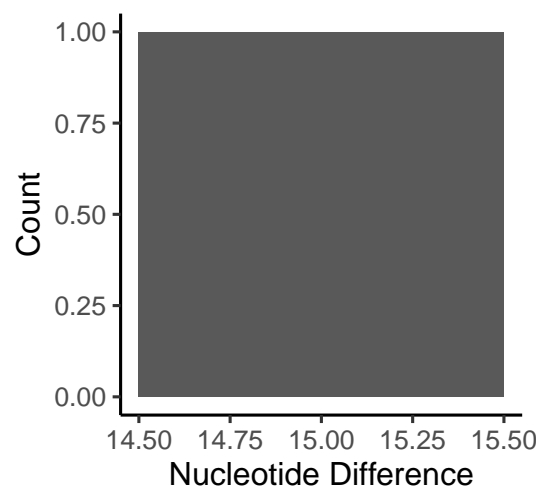
IGHV3-64*05

960 sequences assigned
No exact matches.



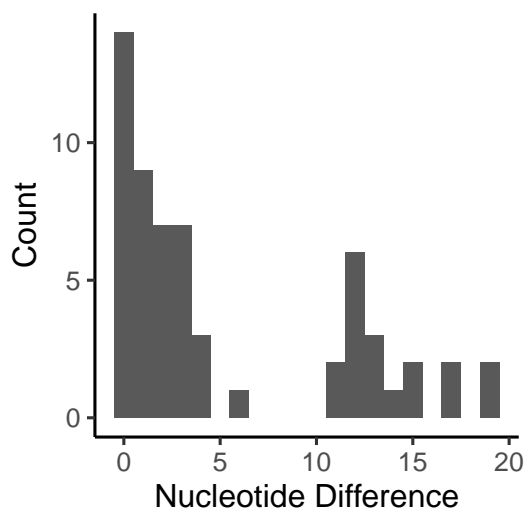
IGHV3-69-1*02

3 sequences assigned
No exact matches.



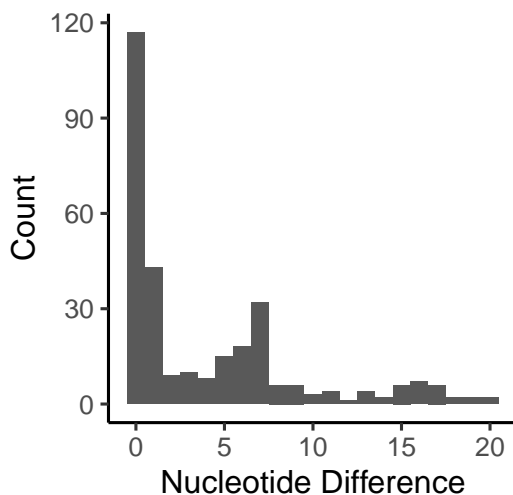
IGHV3-64*01

63 sequences assigned
14 (22.2%) exact matches, in which:
6 unique CDR3
3 unique J



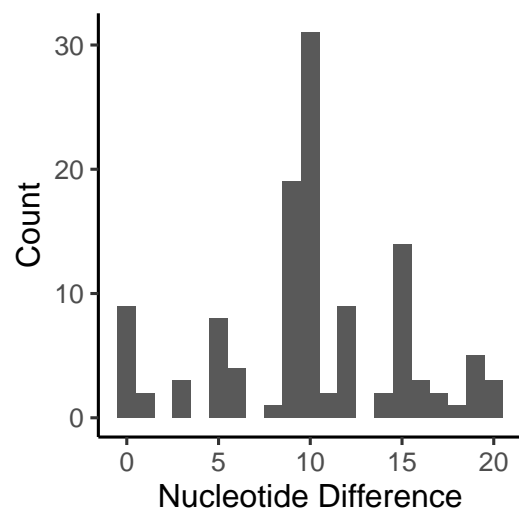
IGHV3-66*01

314 sequences assigned
117 (37.3%) exact matches, in which:
61 unique CDR3
7 unique J



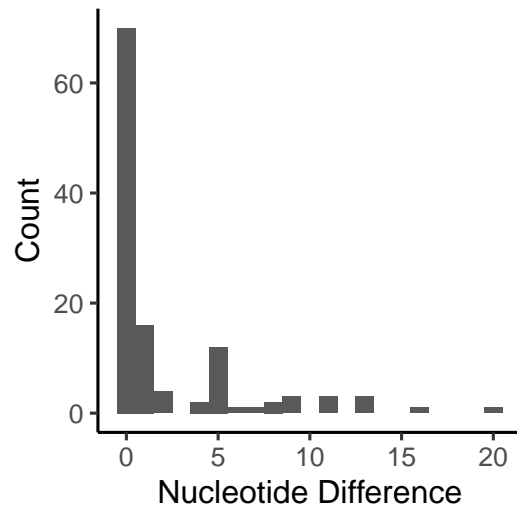
IGHV3-72*01

128 sequences assigned
9 (7%) exact matches, in which:
6 unique CDR3
3 unique J



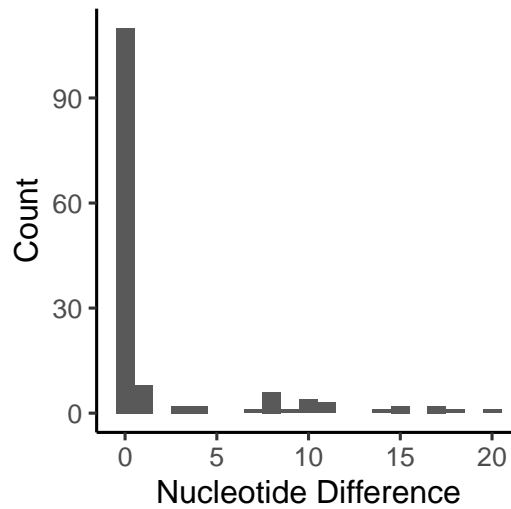
IGHV3-73*01_02

337 sequences assigned
70 (20.8%) exact matches, in which:
37 unique CDR3
5 unique J



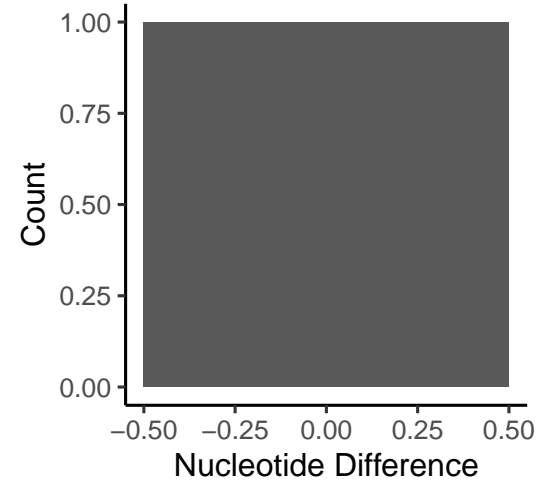
IGHV3-64D*09

160 sequences assigned
110 (68.8%) exact matches, in which:
43 unique CDR3
5 unique J



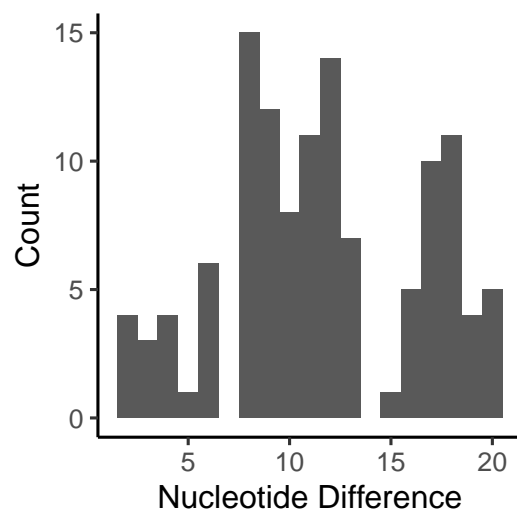
IGHV4-28*01_07

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



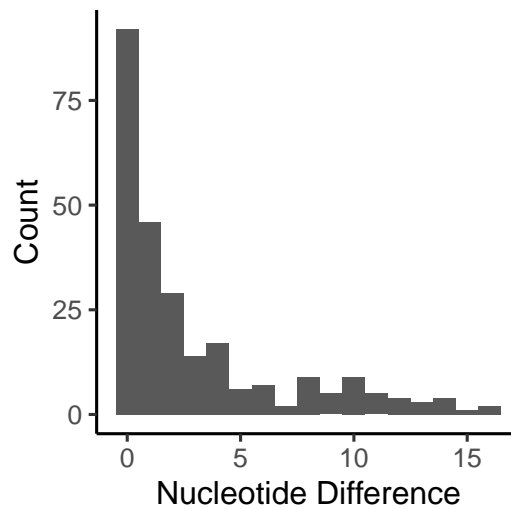
IGHV3-74*03

336 sequences assigned
No exact matches.



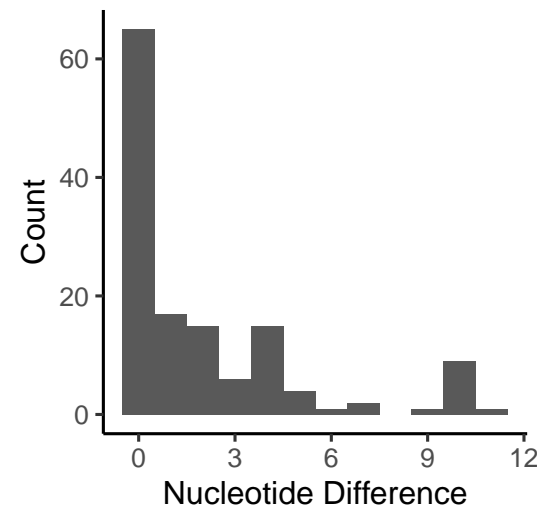
IGHV4-4*07

261 sequences assigned
92 (35.2%) exact matches, in which:
77 unique CDR3
6 unique J



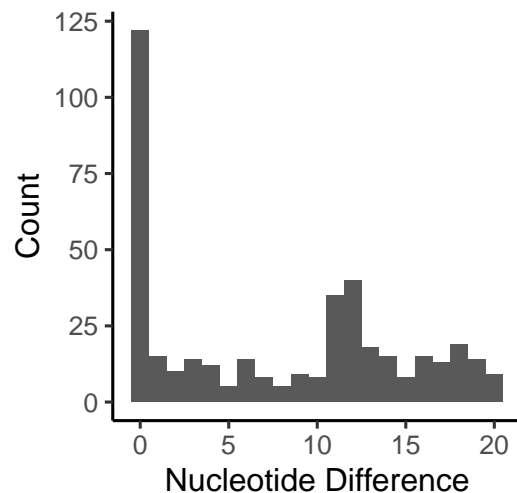
IGHV4-30-2*01

141 sequences assigned
65 (46.1%) exact matches, in which:
38 unique CDR3
5 unique J



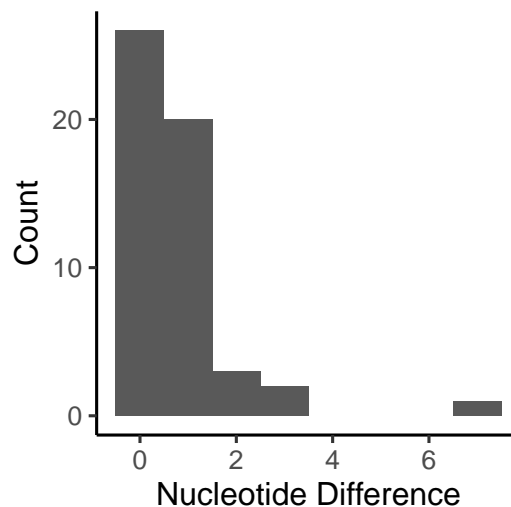
IGHV3-74*01_02

431 sequences assigned
122 (28.3%) exact matches, in which:
64 unique CDR3
6 unique J



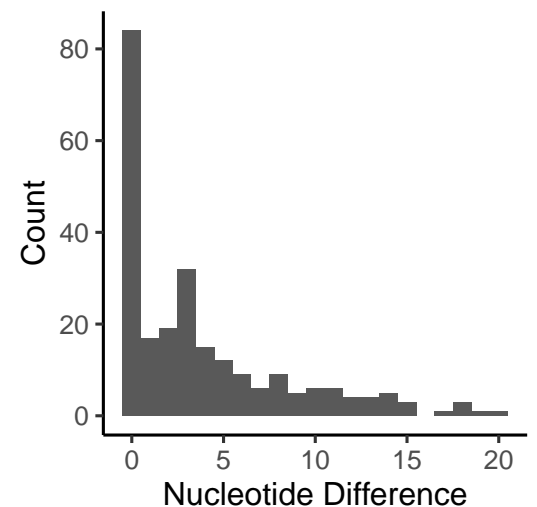
IGHV4-4*07_C300T

52 sequences assigned
26 (50%) exact matches, in which:
26 unique CDR3
5 unique J



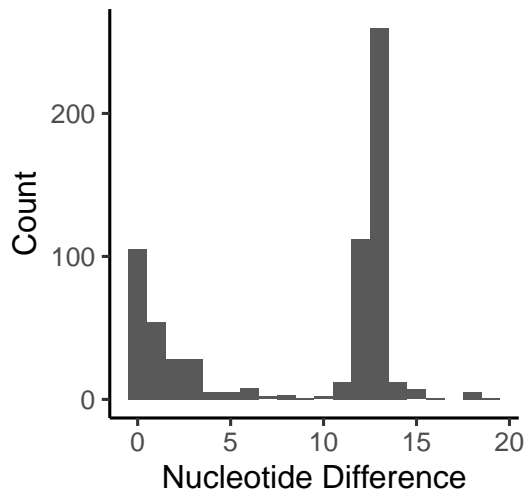
IGHV4-30-4*01

250 sequences assigned
84 (33.6%) exact matches, in which:
75 unique CDR3
5 unique J



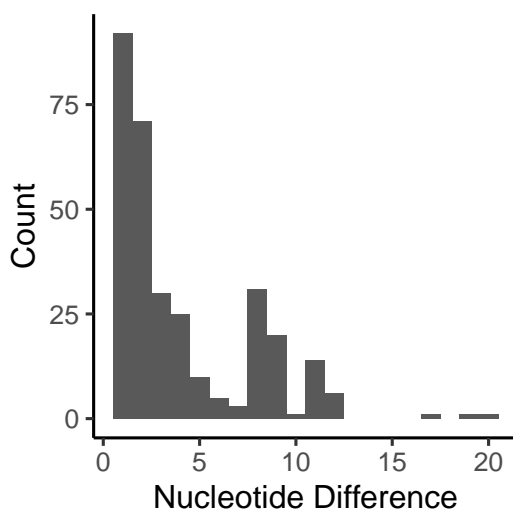
IGHV4-31*02

665 sequences assigned
105 (15.8%) exact matches, in which:
96 unique CDR3
6 unique J



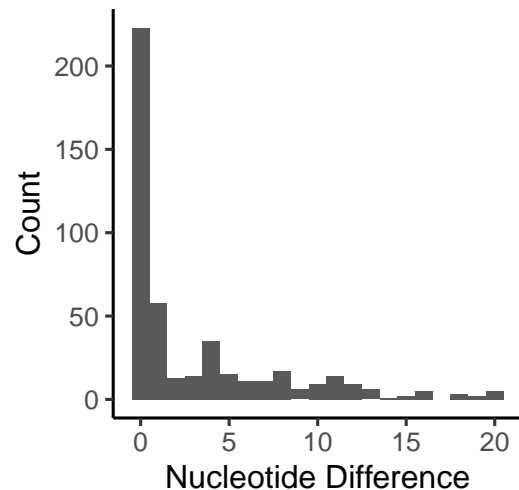
IGHV4-39*07

322 sequences assigned
No exact matches.



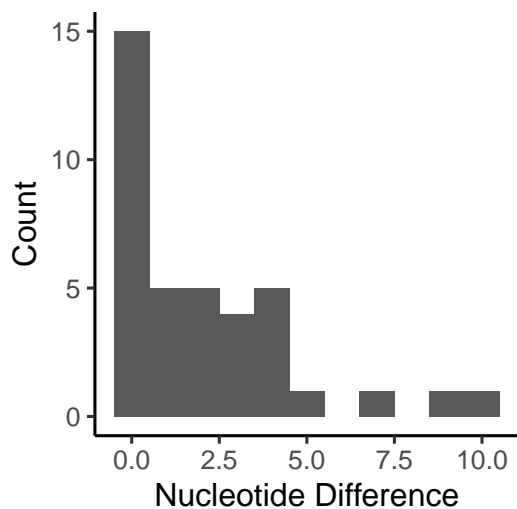
IGHV4-59*01_07

629 sequences assigned
223 (35.5%) exact matches, in which:
203 unique CDR3
7 unique J



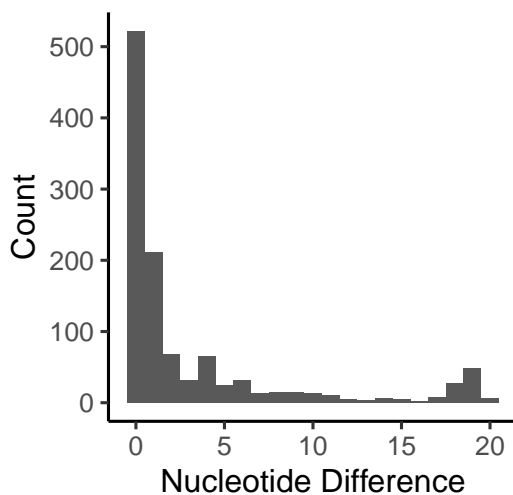
IGHV4-31*02_T228C_A23

38 sequences assigned
15 (39.5%) exact matches, in which:
15 unique CDR3
5 unique J



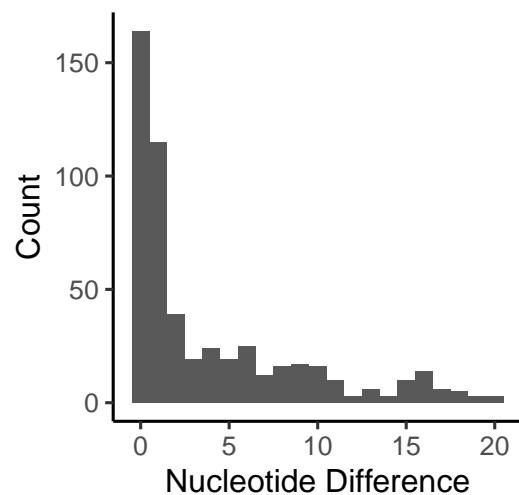
IGHV4-39*02_C258G

1303 sequences assigned
522 (40.1%) exact matches, in which:
418 unique CDR3
7 unique J



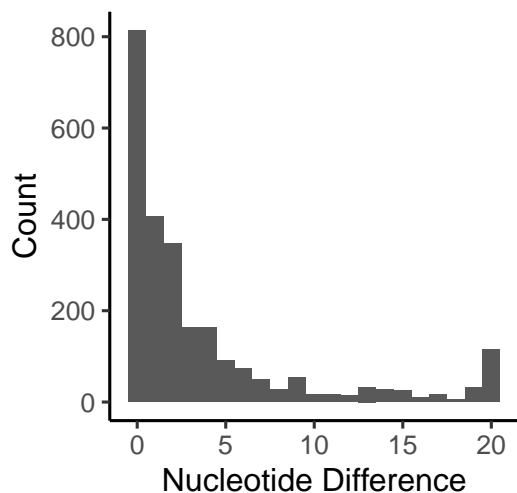
IGHV4-59*13

546 sequences assigned
164 (30%) exact matches, in which:
156 unique CDR3
7 unique J



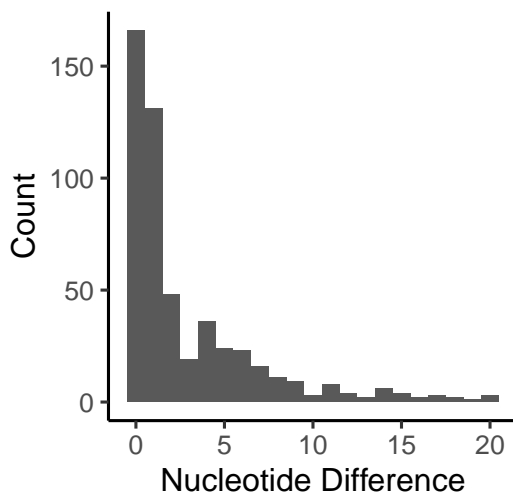
IGHV4-34*01_02

2965 sequences assigned
814 (27.5%) exact matches, in which:
566 unique CDR3
7 unique J



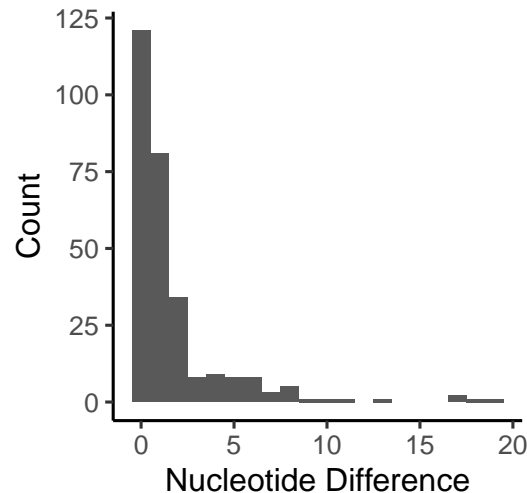
IGHV4-59*08

541 sequences assigned
166 (30.7%) exact matches, in which:
142 unique CDR3
7 unique J



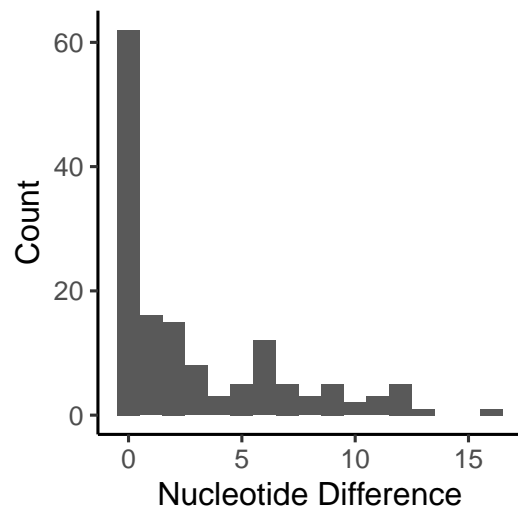
IGHV4-59*12_C300T

289 sequences assigned
121 (41.9%) exact matches, in which:
121 unique CDR3
7 unique J



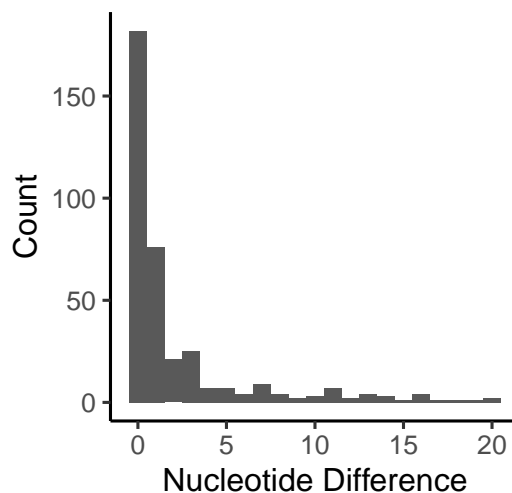
IGHV4-61*01

154 sequences assigned
62 (40.3%) exact matches, in which:
59 unique CDR3
7 unique J



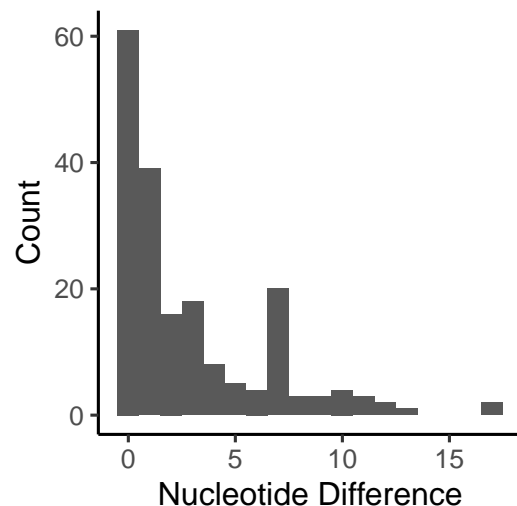
IGHV5-10-1*01_03

368 sequences assigned
182 (49.5%) exact matches, in which:
122 unique CDR3
6 unique J



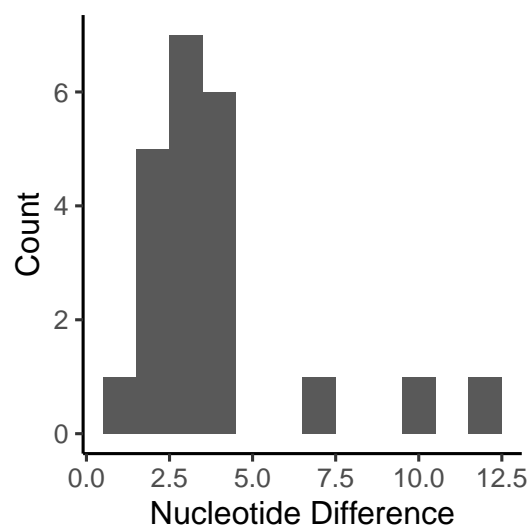
IGHV7-4-1*02

209 sequences assigned
61 (29.2%) exact matches, in which:
56 unique CDR3
5 unique J



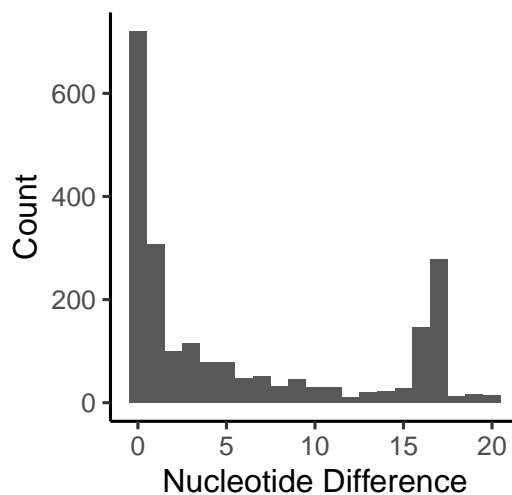
IGHV4-61*05

23 sequences assigned
No exact matches.



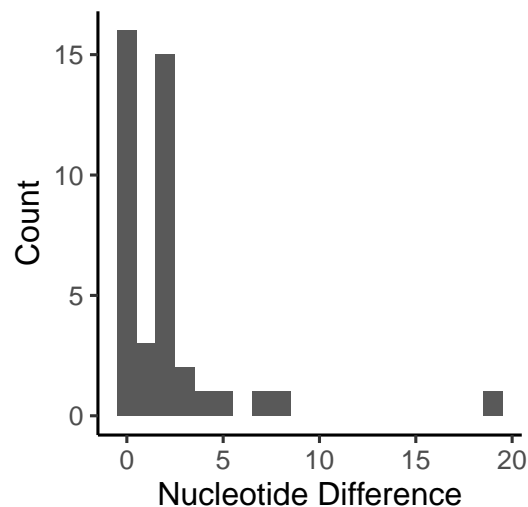
IGHV5-51*07_A128G

2517 sequences assigned
721 (28.6%) exact matches, in which:
386 unique CDR3
7 unique J



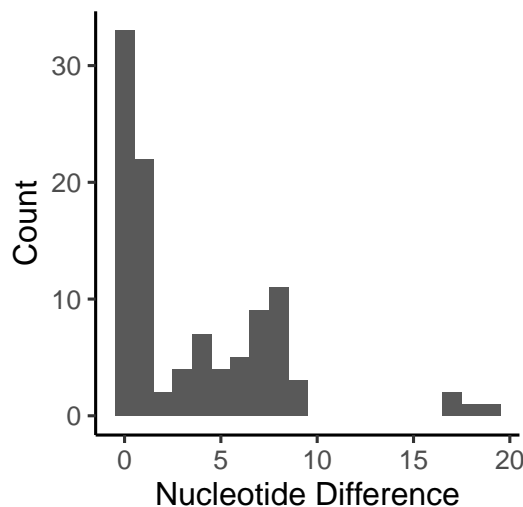
IGHV4-61*01_T288C_G2!

42 sequences assigned
16 (38.1%) exact matches, in which:
16 unique CDR3
4 unique J

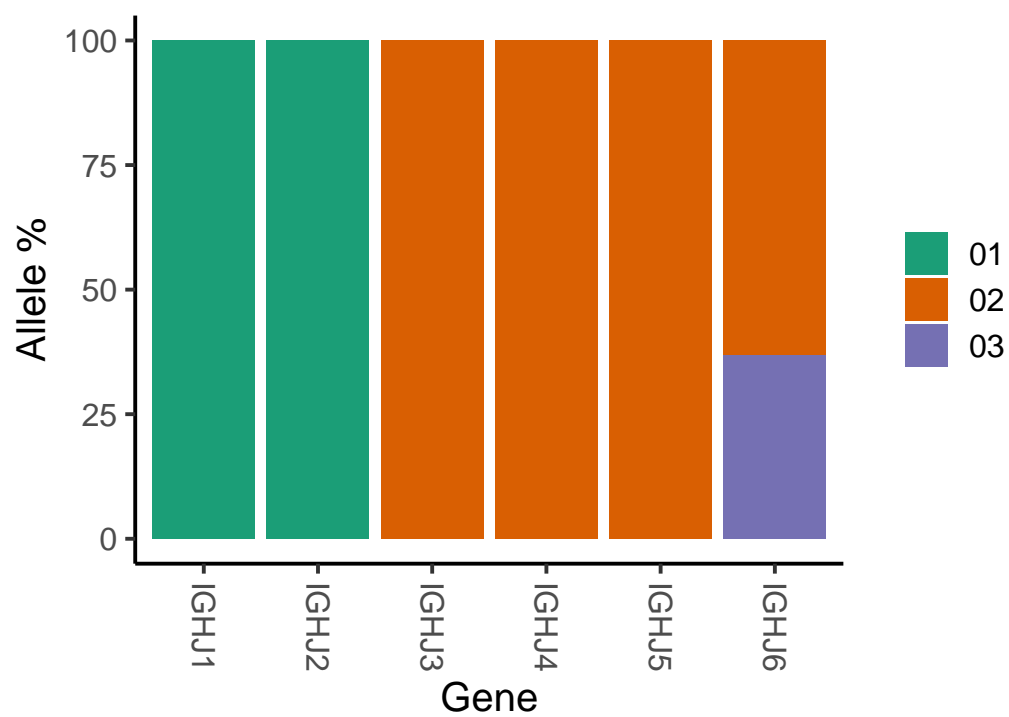


IGHV6-1*01_02

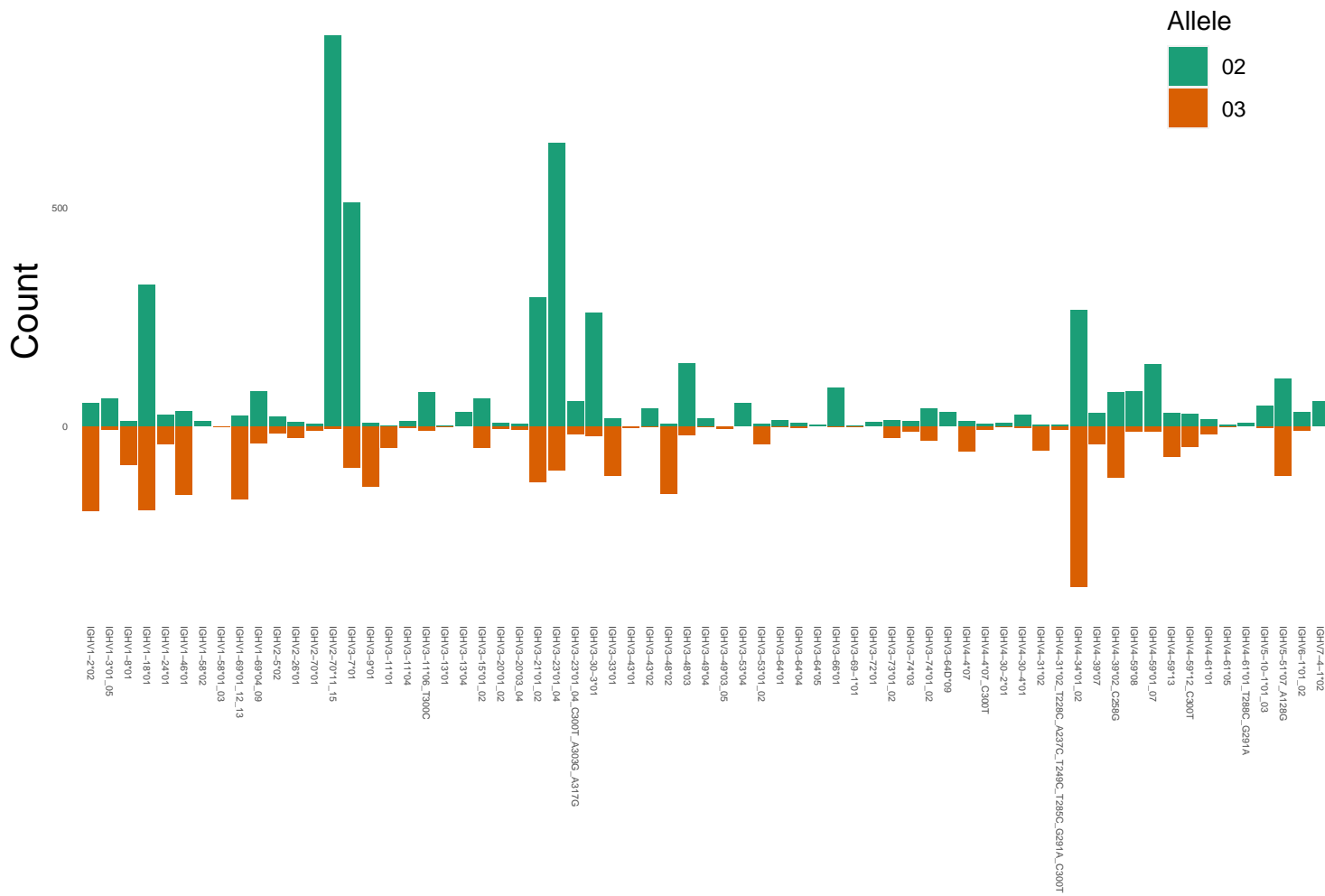
109 sequences assigned
33 (30.3%) exact matches, in which:
31 unique CDR3
5 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.