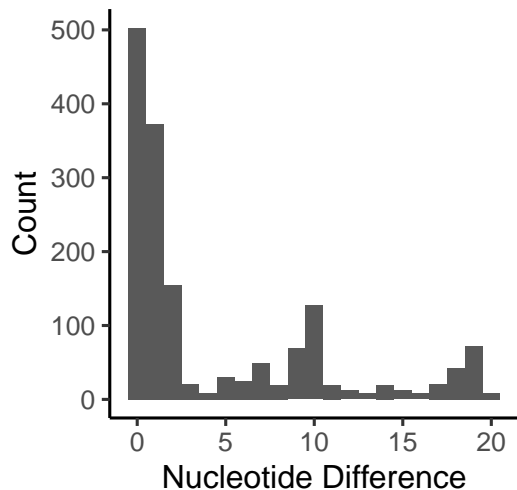


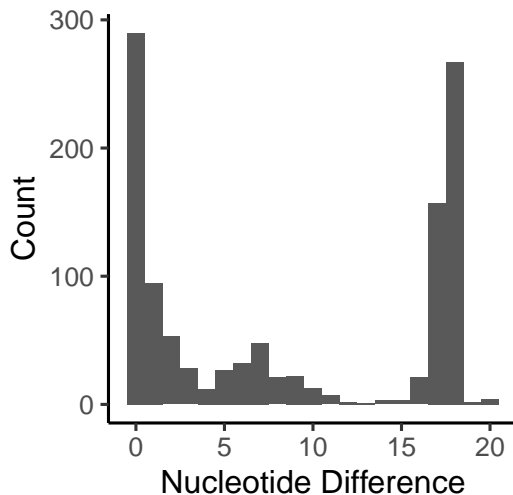
IGHV1-2*06

2126 sequences assigned
503 (23.7%) exact matches, in which:
425 unique CDR3
7 unique J



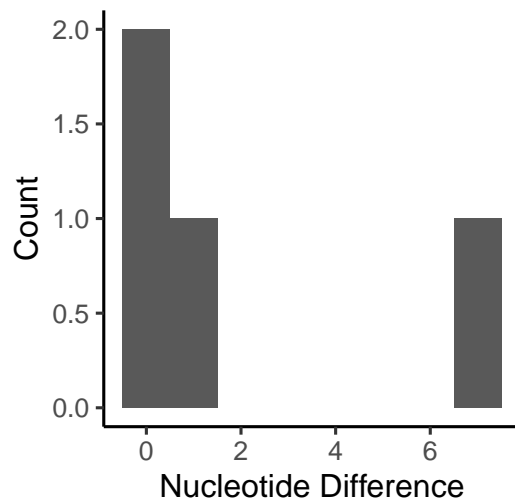
IGHV1-8*01

1127 sequences assigned
290 (25.7%) exact matches, in which:
275 unique CDR3
7 unique J



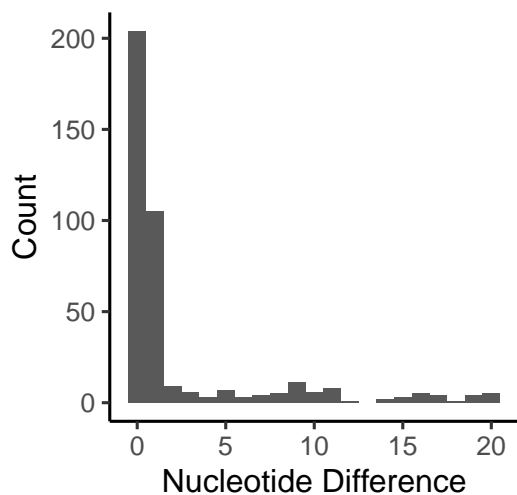
IGHV1-45*02

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



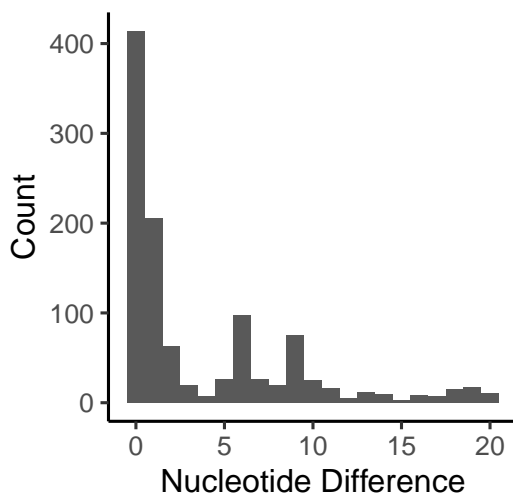
IGHV1-3*01_05

416 sequences assigned
204 (49%) exact matches, in which:
158 unique CDR3
6 unique J



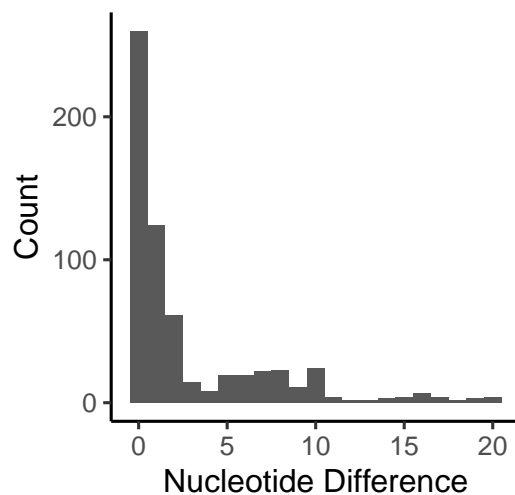
IGHV1-18*01

1152 sequences assigned
414 (35.9%) exact matches, in which:
383 unique CDR3
7 unique J



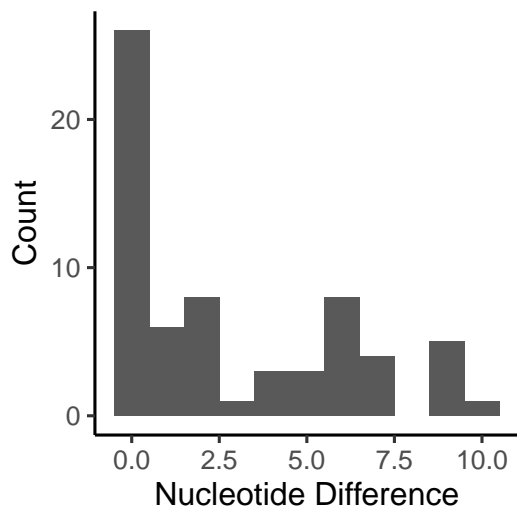
IGHV1-46*01

812 sequences assigned
260 (32%) exact matches, in which:
237 unique CDR3
7 unique J



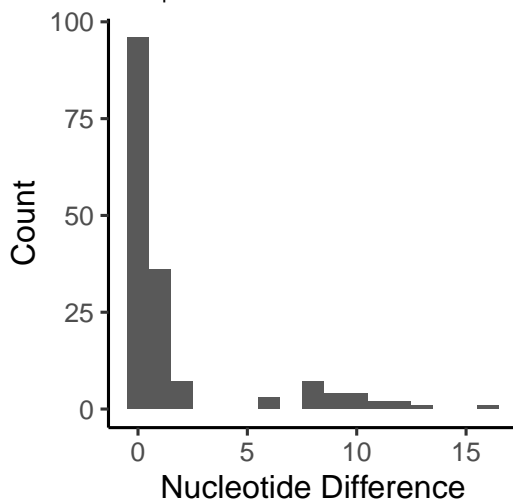
IGHV1-3*01_05_A291G_

65 sequences assigned
26 (40%) exact matches, in which:
26 unique CDR3
6 unique J



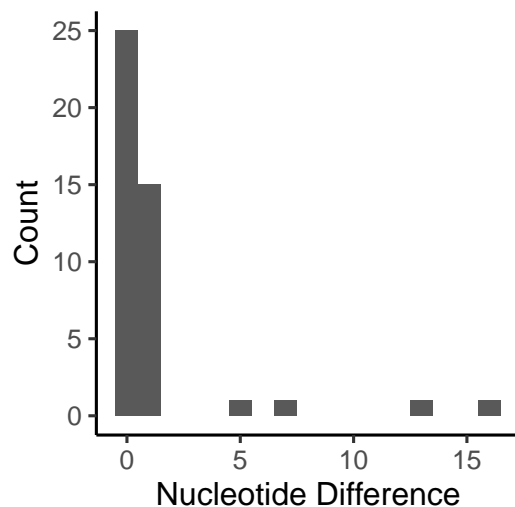
IGHV1-24*01

168 sequences assigned
96 (57.1%) exact matches, in which:
84 unique CDR3
7 unique J



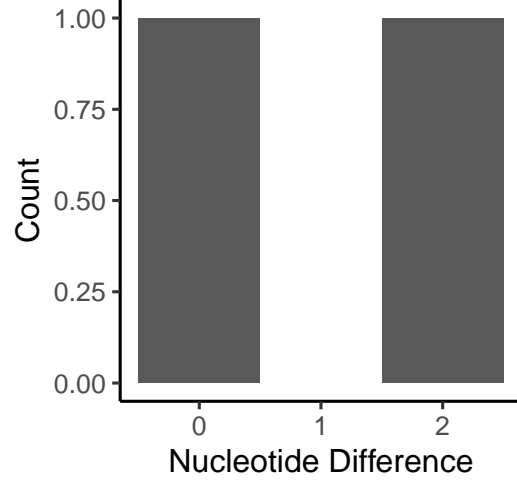
IGHV1-58*01_03

44 sequences assigned
25 (56.8%) exact matches, in which:
23 unique CDR3
5 unique J



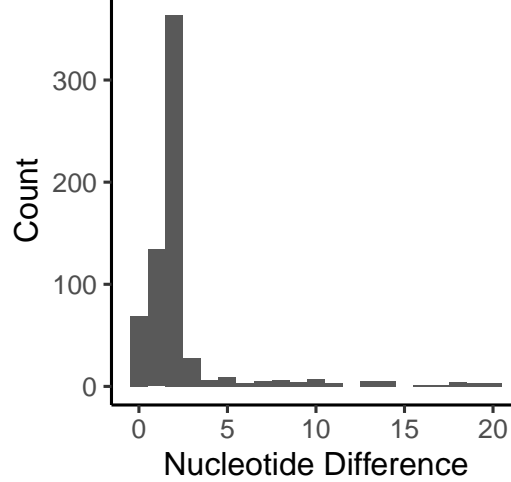
IGHV1-69-2*01

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



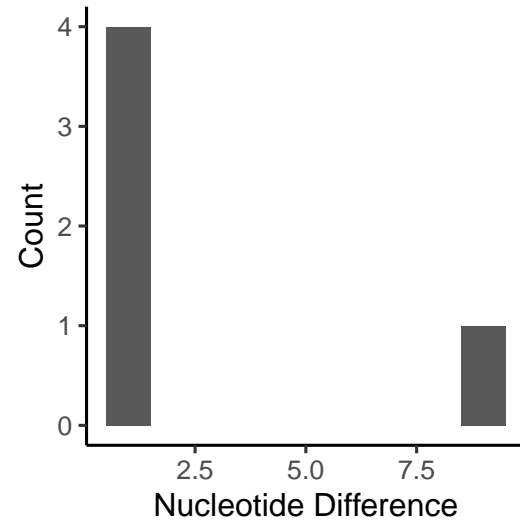
IGHV2-5*02

770 sequences assigned
69 (9%) exact matches, in which:
54 unique CDR3
7 unique J



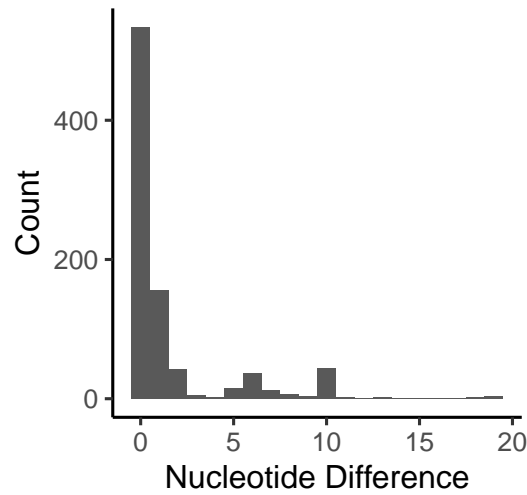
IGHV2-70*12

5 sequences assigned
No exact matches.



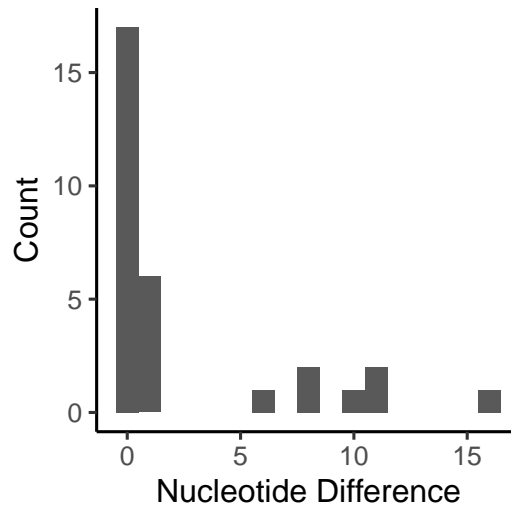
IGHV1-69*01_12_13

901 sequences assigned
534 (59.3%) exact matches, in which:
501 unique CDR3
7 unique J



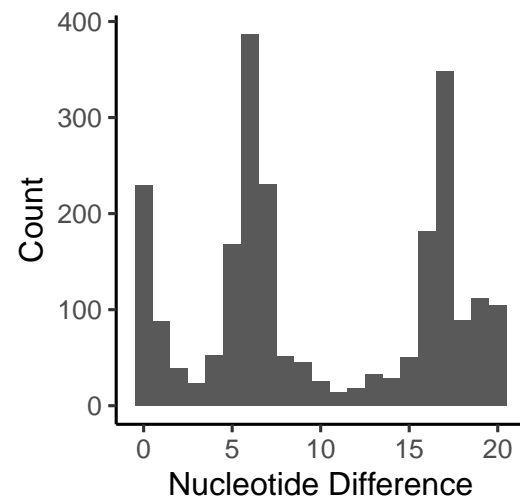
IGHV2-26*01

30 sequences assigned
17 (56.7%) exact matches, in which:
17 unique CDR3
6 unique J



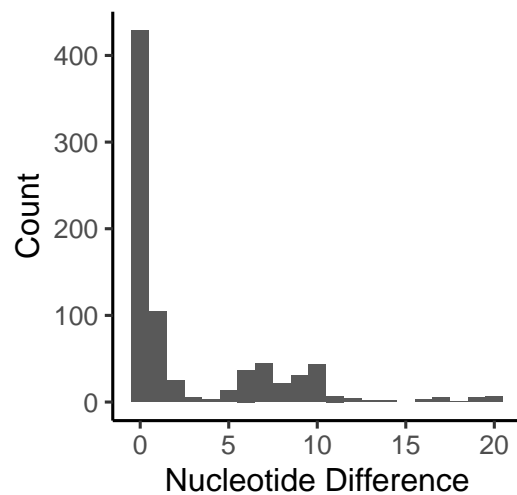
IGHV3-7*01

3119 sequences assigned
230 (7.4%) exact matches, in which:
135 unique CDR3
6 unique J



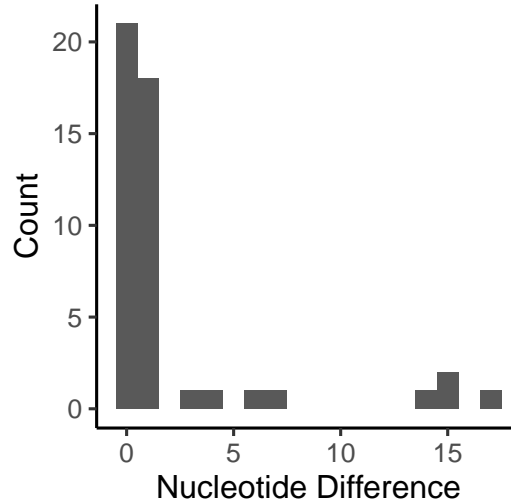
IGHV1-69*06_14

823 sequences assigned
429 (52.1%) exact matches, in which:
399 unique CDR3
7 unique J



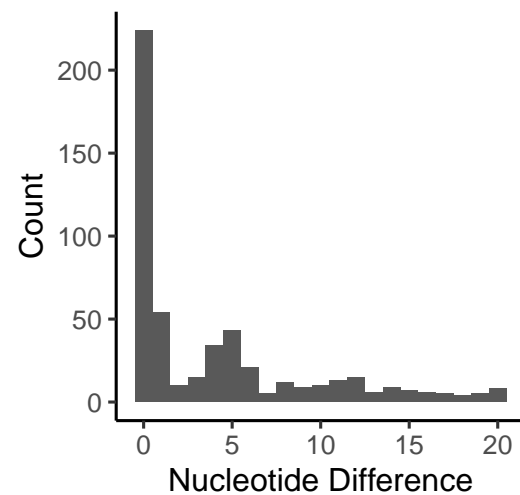
IGHV2-70*01

49 sequences assigned
21 (42.9%) exact matches, in which:
17 unique CDR3
5 unique J



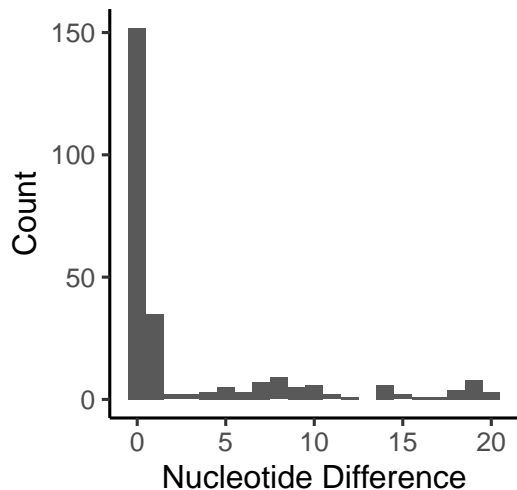
IGHV3-9*01

2658 sequences assigned
224 (8.4%) exact matches, in which:
114 unique CDR3
7 unique J



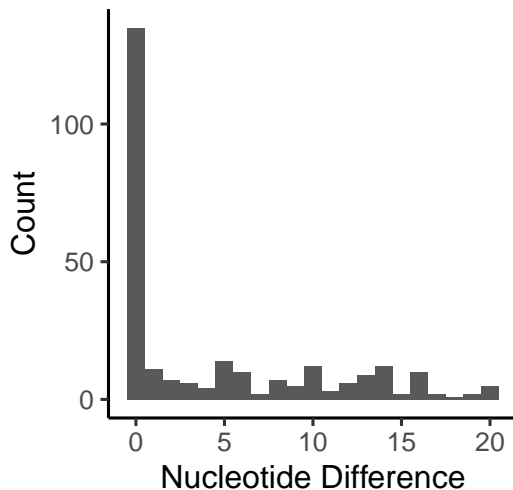
IGHV3-11*01

499 sequences assigned
152 (30.5%) exact matches, in which:
87 unique CDR3
6 unique J



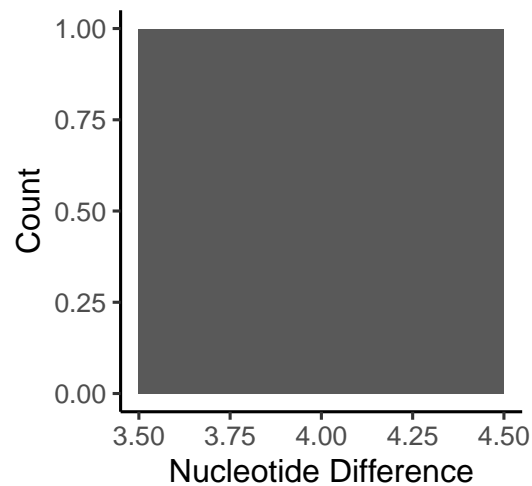
IGHV3-15*01_02

315 sequences assigned
135 (42.9%) exact matches, in which:
70 unique CDR3
6 unique J



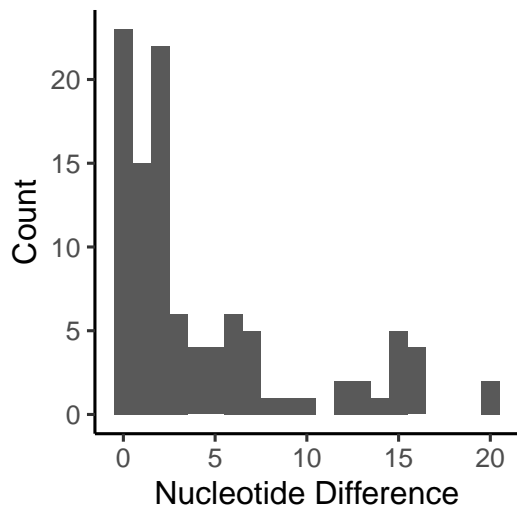
IGHV3-20*03_04

11 sequences assigned
No exact matches.



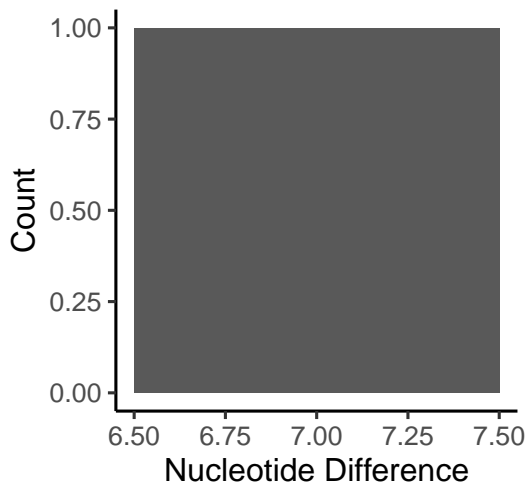
IGHV3-11*04

117 sequences assigned
23 (19.7%) exact matches, in which:
19 unique CDR3
4 unique J



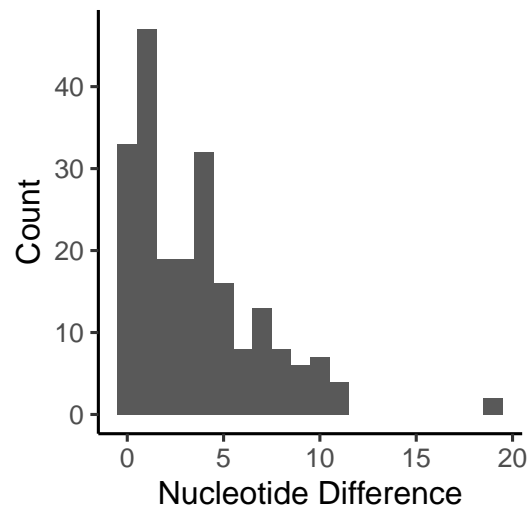
IGHV3-19*01

1 sequences assigned
No exact matches.



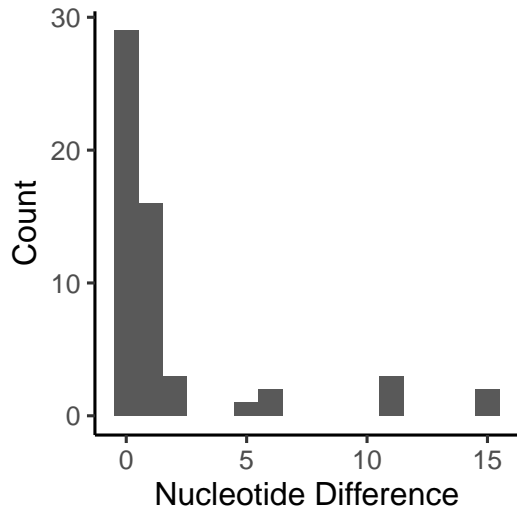
IGHV3-21*04

218 sequences assigned
33 (15.1%) exact matches, in which:
28 unique CDR3
5 unique J



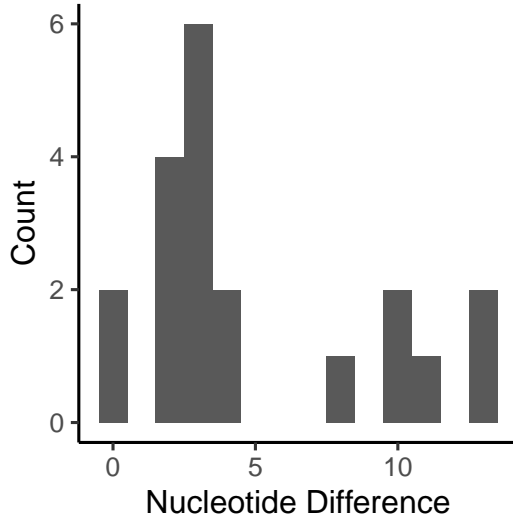
IGHV3-13*01

60 sequences assigned
29 (48.3%) exact matches, in which:
15 unique CDR3
5 unique J



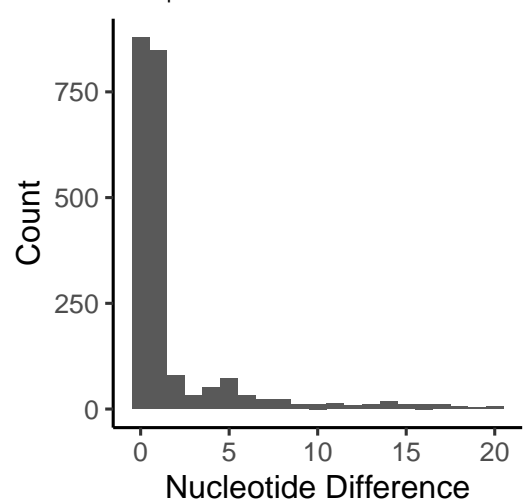
IGHV3-20*01_02

21 sequences assigned
2 (9.5%) exact matches, in which:
1 unique CDR3
1 unique J



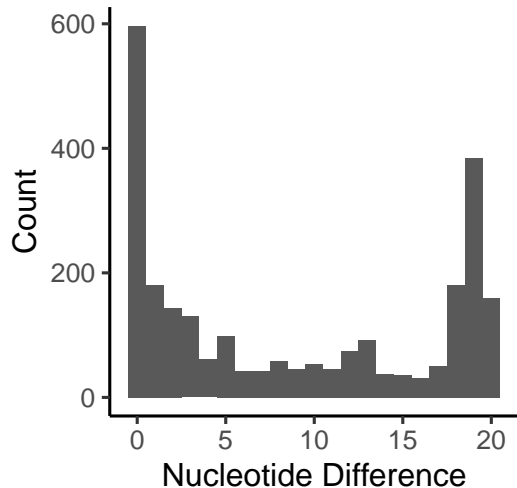
IGHV3-21*01_02

2227 sequences assigned
879 (39.5%) exact matches, in which:
466 unique CDR3
7 unique J



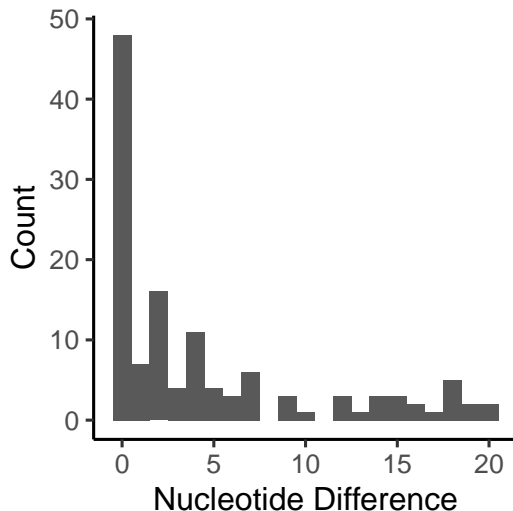
IGHV3-23*01_04

3738 sequences assigned
597 (16%) exact matches, in which:
311 unique CDR3
7 unique J



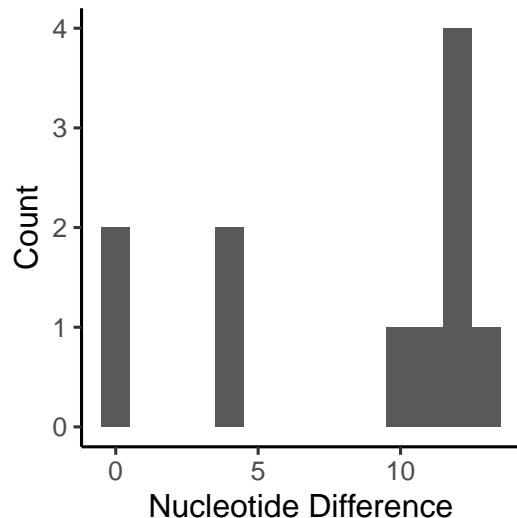
IGHV3-30*03_T288C

144 sequences assigned
48 (33.3%) exact matches, in which:
37 unique CDR3
7 unique J



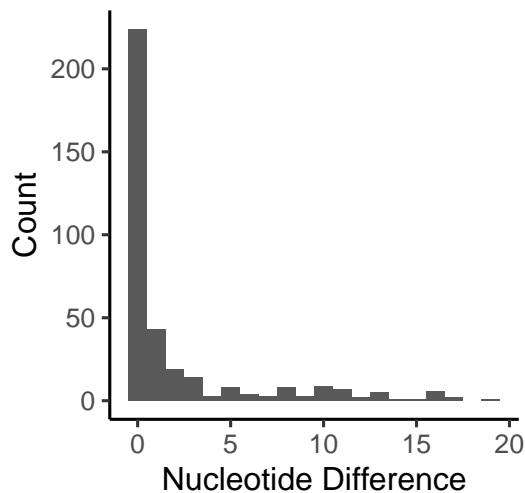
IGHV3-43*01

348 sequences assigned
2 (0.6%) exact matches, in which:
1 unique CDR3
1 unique J



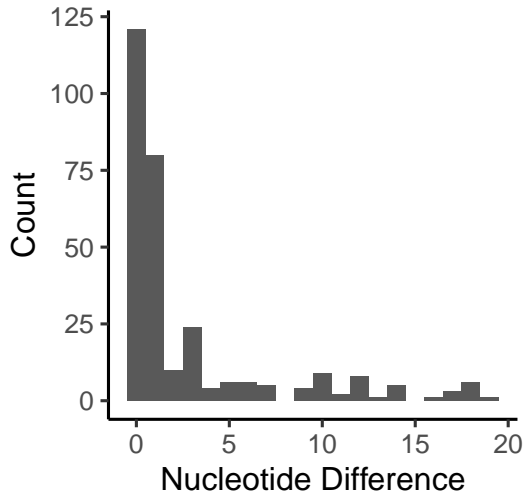
IGHV3-30*03

381 sequences assigned
224 (58.8%) exact matches, in which:
134 unique CDR3
7 unique J



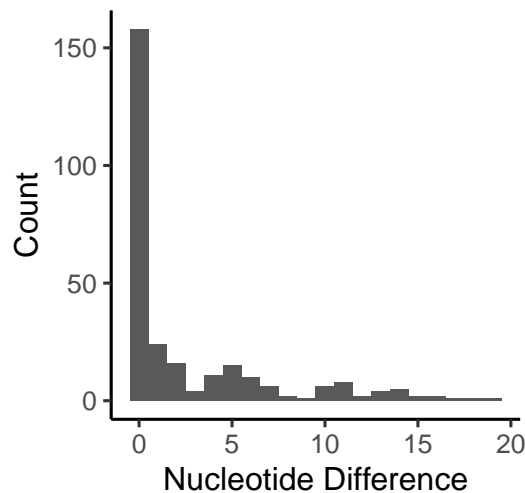
IGHV3-33*01

412 sequences assigned
121 (29.4%) exact matches, in which:
67 unique CDR3
7 unique J



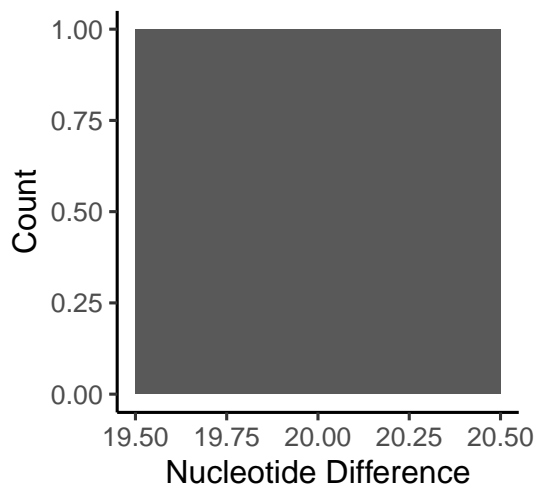
IGHV3-48*01

301 sequences assigned
158 (52.5%) exact matches, in which:
87 unique CDR3
7 unique J



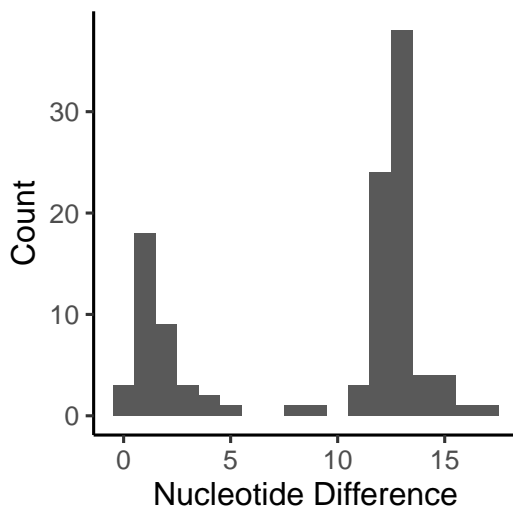
IGHV3-30-3*03

1 sequences assigned
No exact matches.



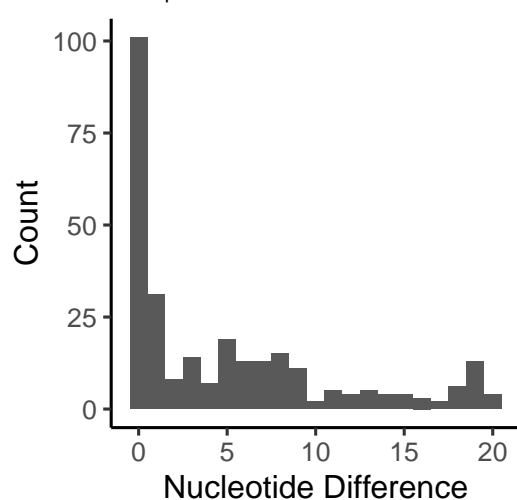
IGHV3-33*06

118 sequences assigned
3 (2.5%) exact matches, in which:
2 unique CDR3
2 unique J



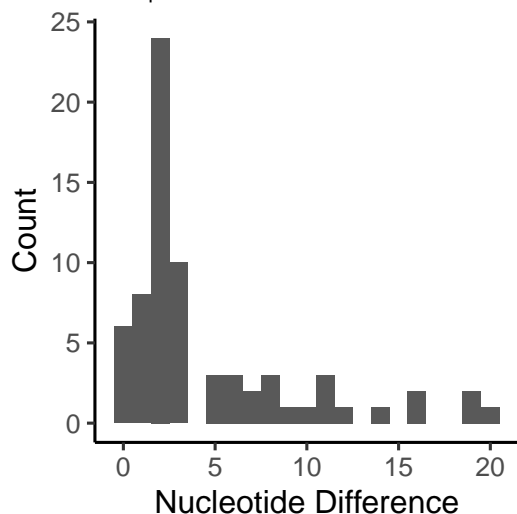
IGHV3-48*03

442 sequences assigned
101 (22.9%) exact matches, in which:
51 unique CDR3
6 unique J



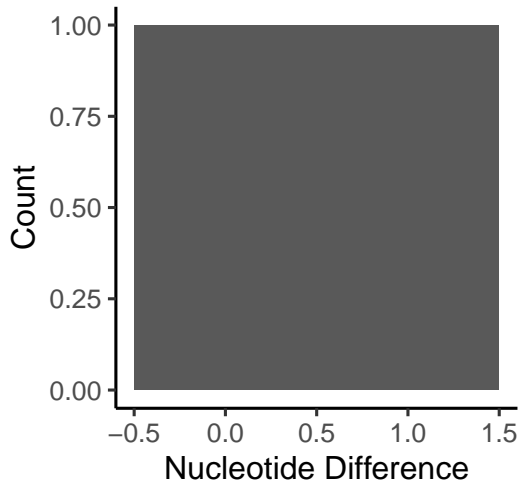
IGHV3-48*04

84 sequences assigned
6 (7.1%) exact matches, in which:
4 unique CDR3
1 unique J



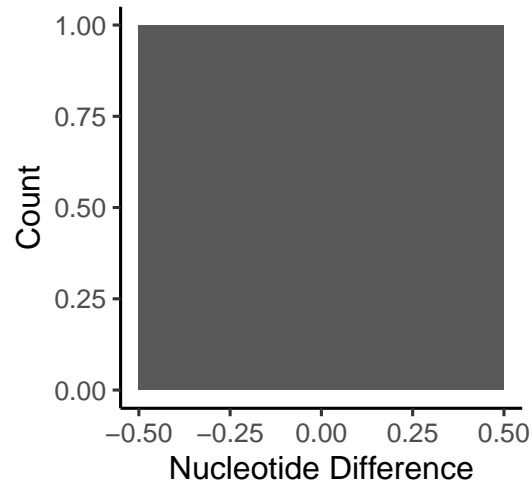
IGHV3-52*01_03

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



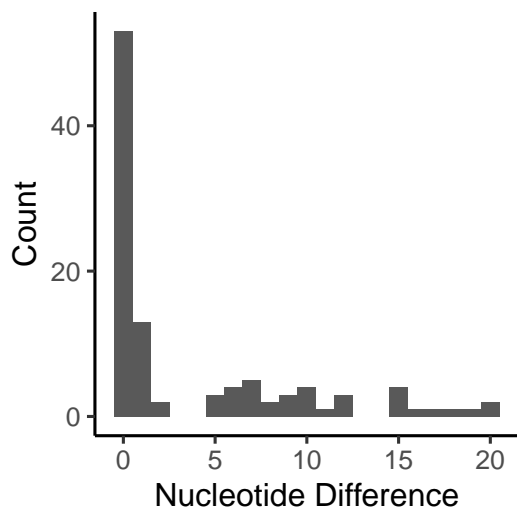
IGHV3-66*01

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



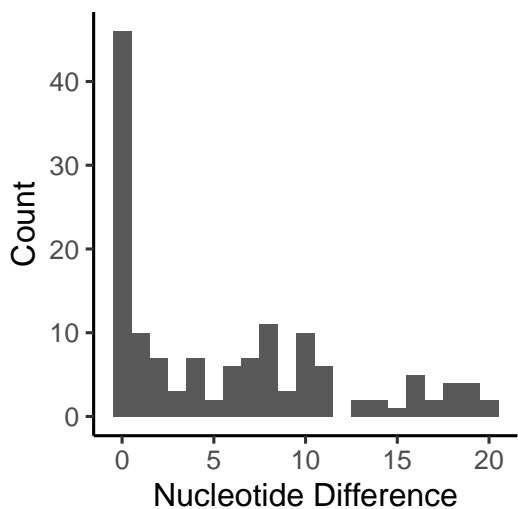
IGHV3-49*04

113 sequences assigned
53 (46.9%) exact matches, in which:
26 unique CDR3
3 unique J



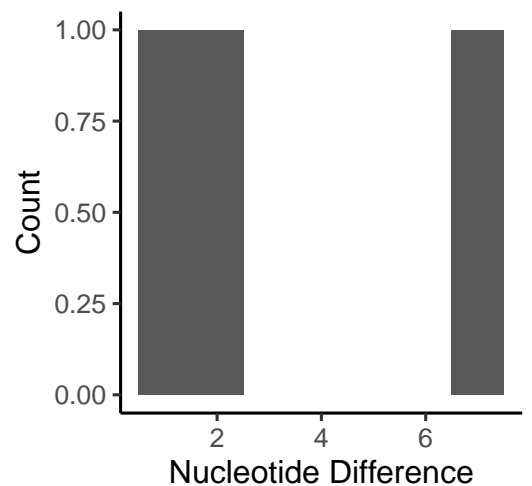
IGHV3-53*01_02

899 sequences assigned
46 (5.1%) exact matches, in which:
24 unique CDR3
5 unique J



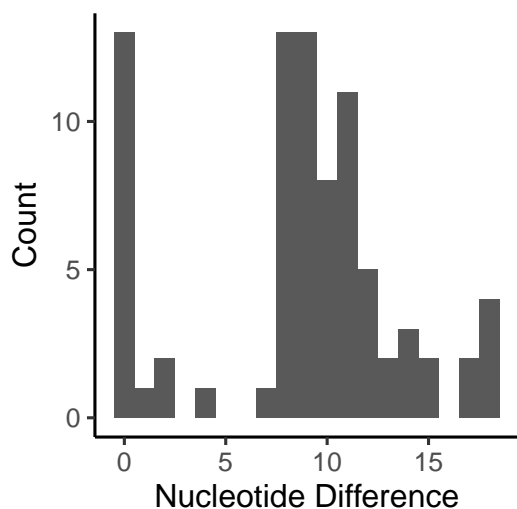
IGHV3-66*03

6 sequences assigned
No exact matches.



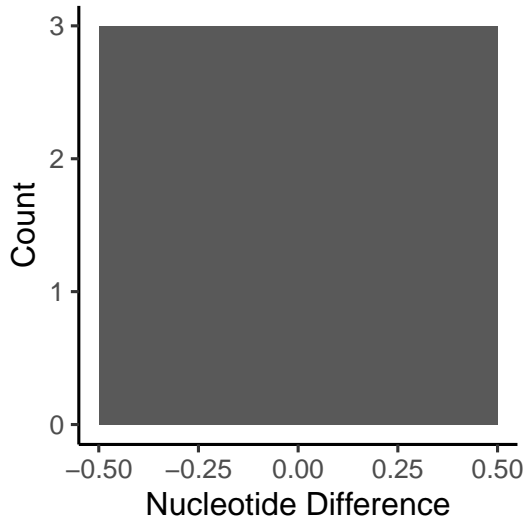
IGHV3-49*03_05

98 sequences assigned
13 (13.3%) exact matches, in which:
8 unique CDR3
4 unique J



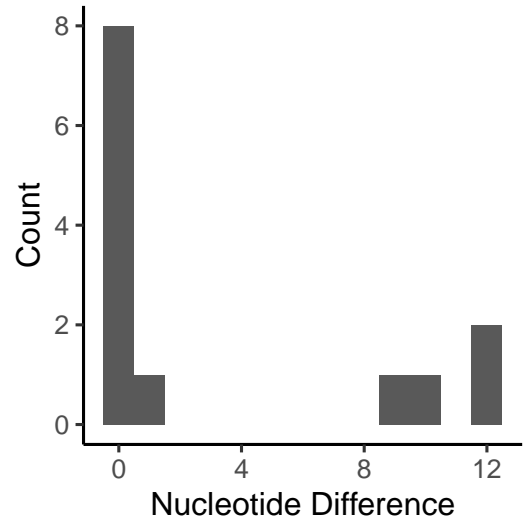
IGHV3-64*02_07

3 sequences assigned
3 (100%) exact matches, in which:
2 unique CDR3
1 unique J



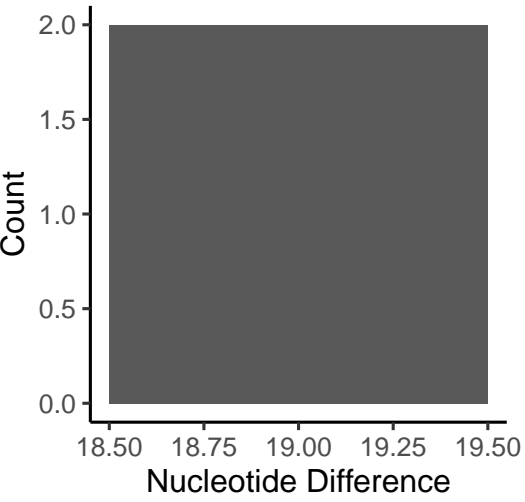
IGHV3-69-1*01

13 sequences assigned
8 (61.5%) exact matches, in which:
5 unique CDR3
2 unique J



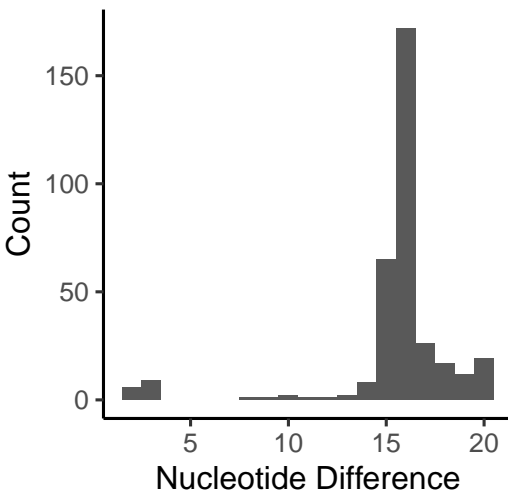
IGHV3-69-1*02

4 sequences assigned
No exact matches.



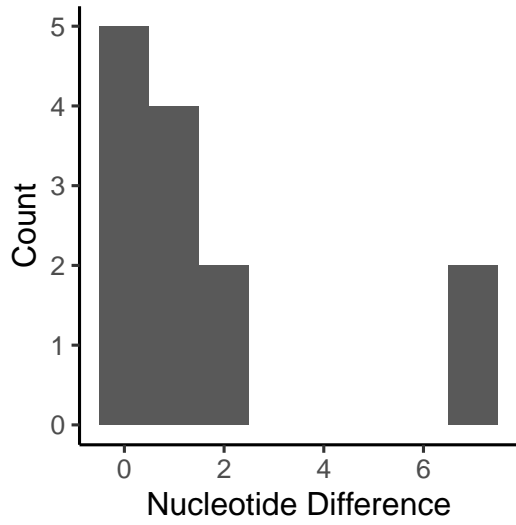
IGHV3-74*03

1112 sequences assigned
No exact matches.



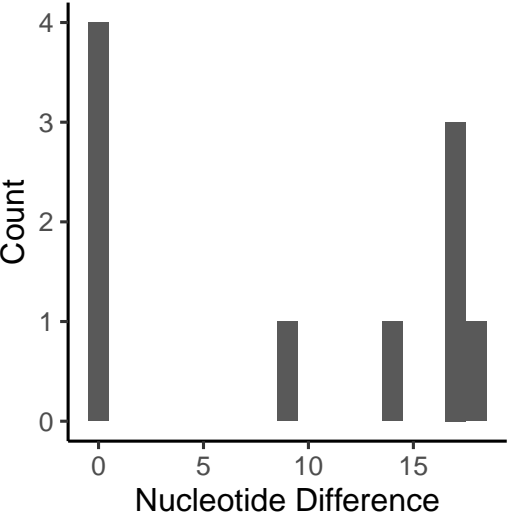
IGHV3-43D*04

14 sequences assigned
5 (35.7%) exact matches, in which:
2 unique CDR3
2 unique J



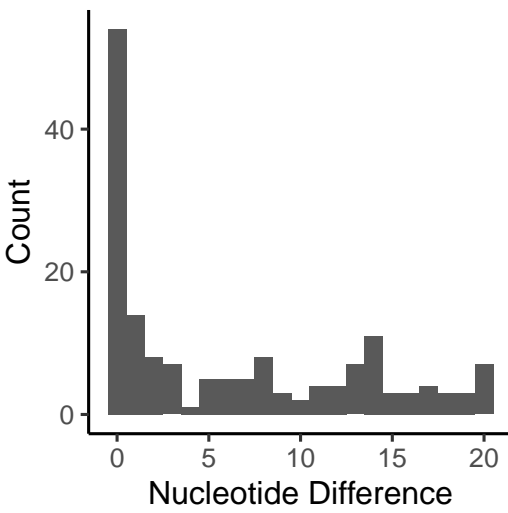
IGHV3-72*01

27 sequences assigned
4 (14.8%) exact matches, in which:
2 unique CDR3
2 unique J



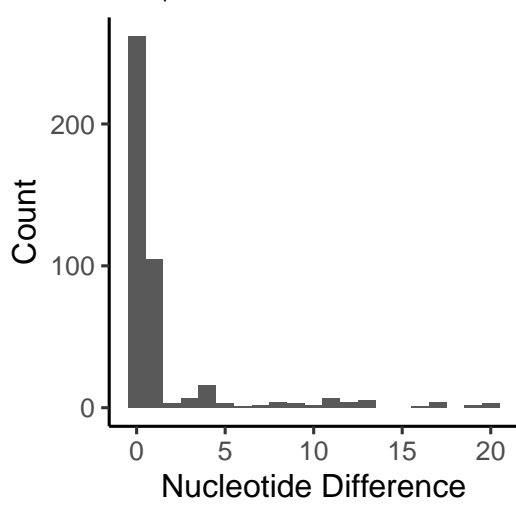
IGHV3-74*01_02

185 sequences assigned
54 (29.2%) exact matches, in which:
30 unique CDR3
6 unique J



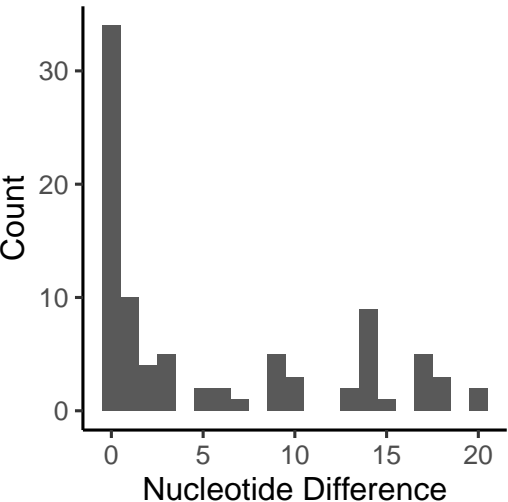
IGHV4-4*02_03

454 sequences assigned
262 (57.7%) exact matches, in which:
193 unique CDR3
7 unique J



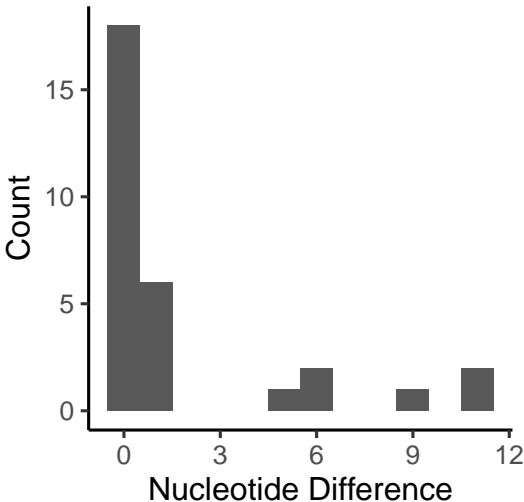
IGHV3-73*01_02

429 sequences assigned
34 (7.9%) exact matches, in which:
15 unique CDR3
3 unique J



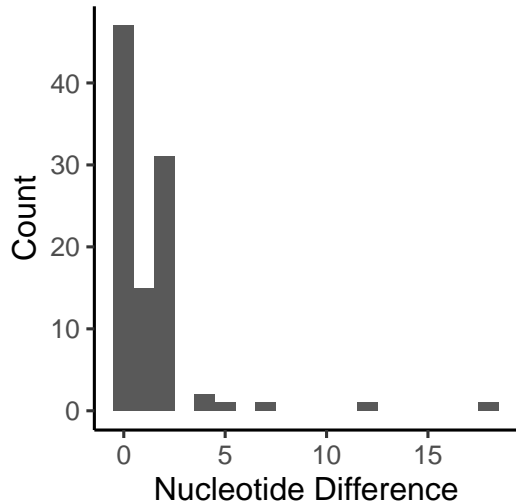
IGHV3-43D*03

31 sequences assigned
18 (58.1%) exact matches, in which:
10 unique CDR3
3 unique J



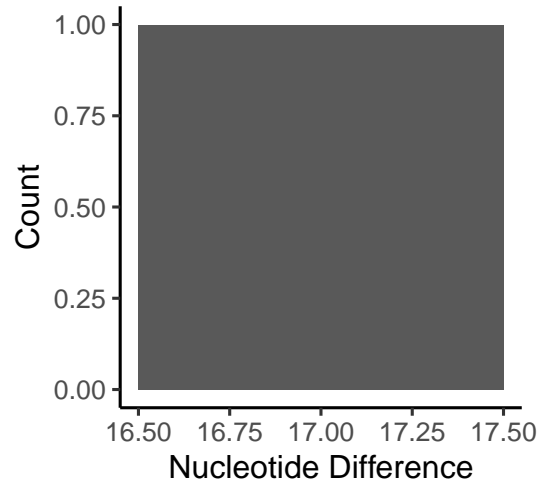
IGHV4-4*02_03_A245C_0

99 sequences assigned
47 (47.5%) exact matches, in which:
47 unique CDR3
4 unique J



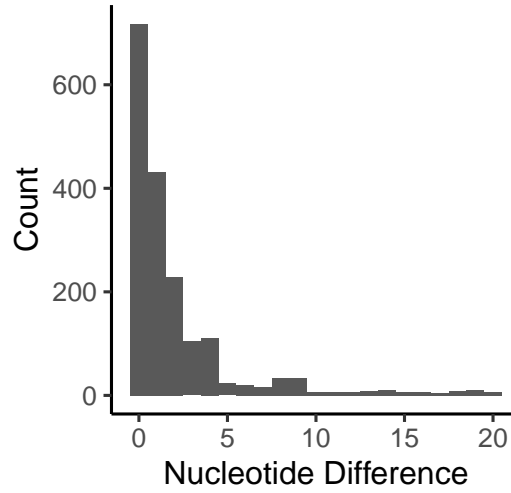
IGHV4-30-2*01

1 sequences assigned
No exact matches.



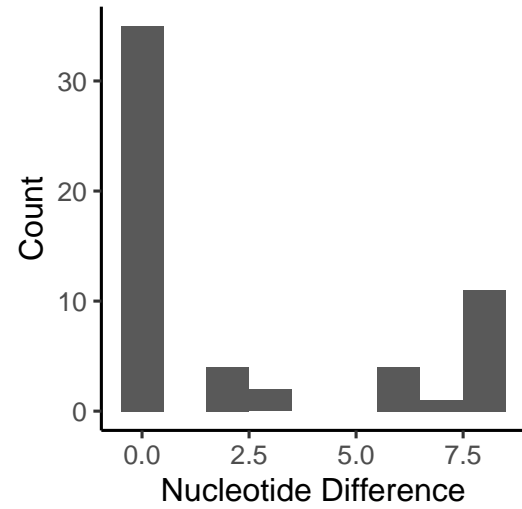
IGHV4-34*01_02

2513 sequences assigned
718 (28.6%) exact matches, in which:
458 unique CDR3
7 unique J



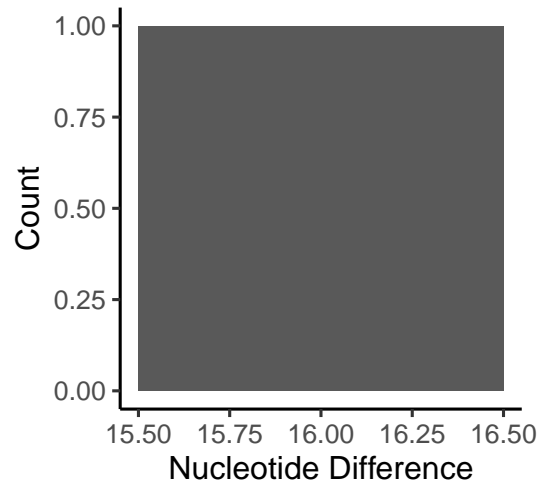
IGHV4-38-2*01_A291G_C

57 sequences assigned
35 (61.4%) exact matches, in which:
35 unique CDR3
5 unique J



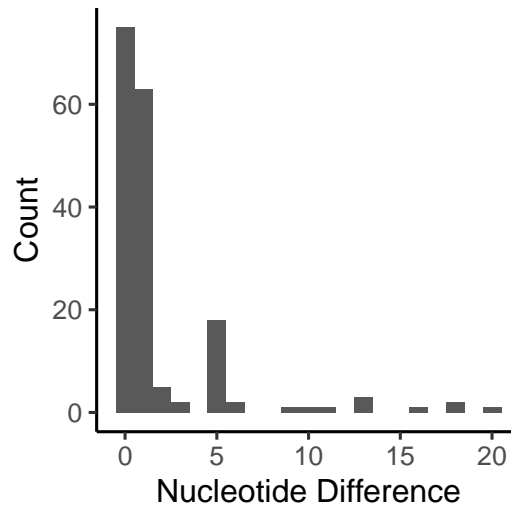
IGHV4-30-4*08

3 sequences assigned
No exact matches.



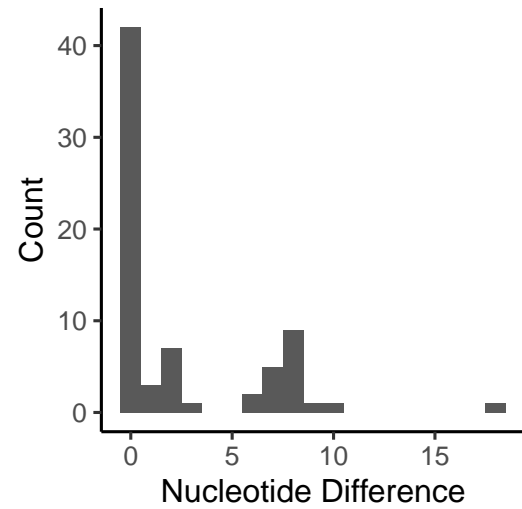
IGHV4-38-2*01

179 sequences assigned
75 (41.9%) exact matches, in which:
65 unique CDR3
7 unique J



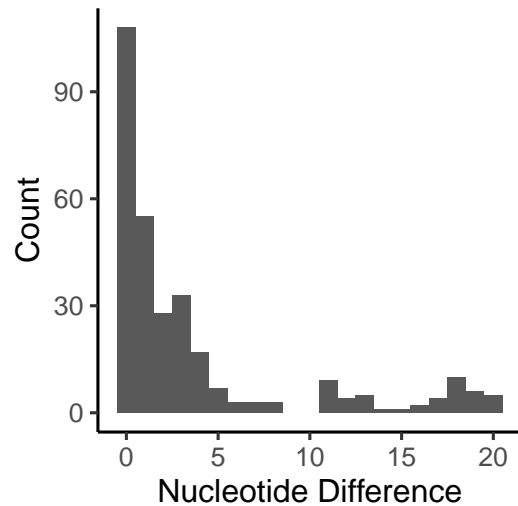
IGHV4-38-2*02_A291G_C

72 sequences assigned
42 (58.3%) exact matches, in which:
42 unique CDR3
6 unique J



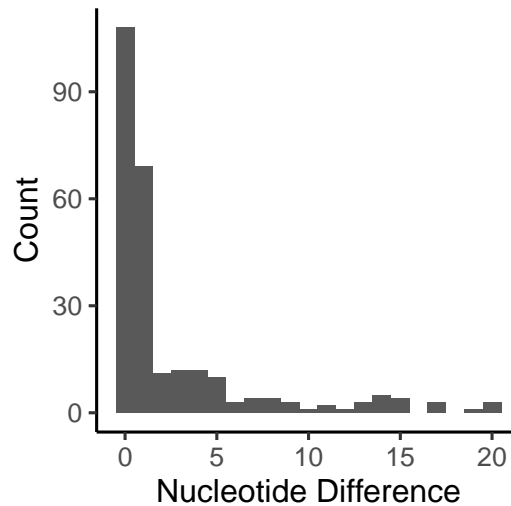
IGHV4-31*02

2162 sequences assigned
108 (5%) exact matches, in which:
92 unique CDR3
6 unique J



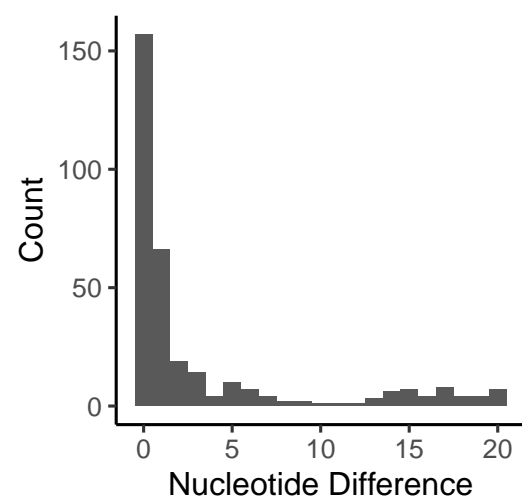
IGHV4-38-2*02

385 sequences assigned
108 (28.1%) exact matches, in which:
90 unique CDR3
7 unique J



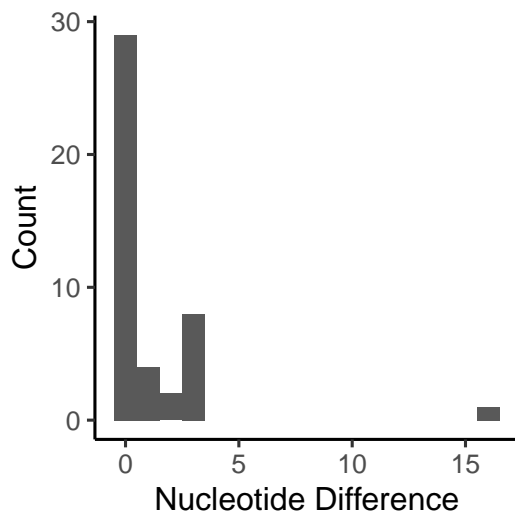
IGHV4-39*07

381 sequences assigned
157 (41.2%) exact matches, in which:
132 unique CDR3
7 unique J



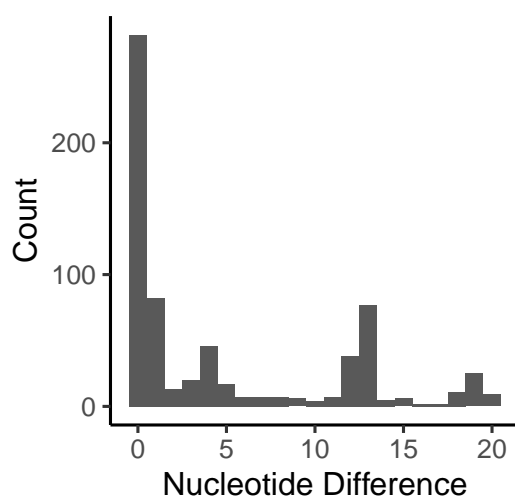
IGHV4-39*07_C288T

44 sequences assigned
29 (65.9%) exact matches, in which:
29 unique CDR3
5 unique J



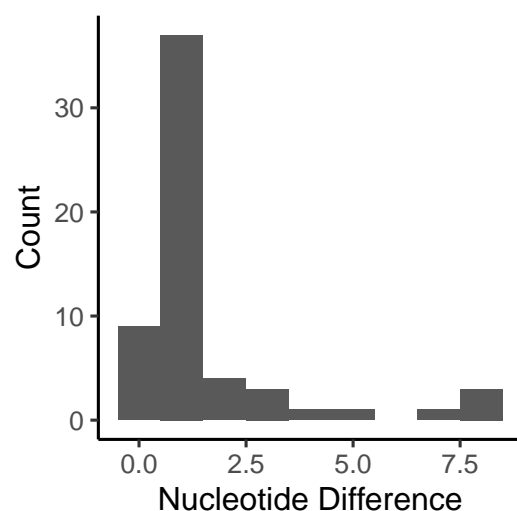
IGHV4-59*02_G88A

947 sequences assigned
282 (29.8%) exact matches, in which:
241 unique CDR3
6 unique J



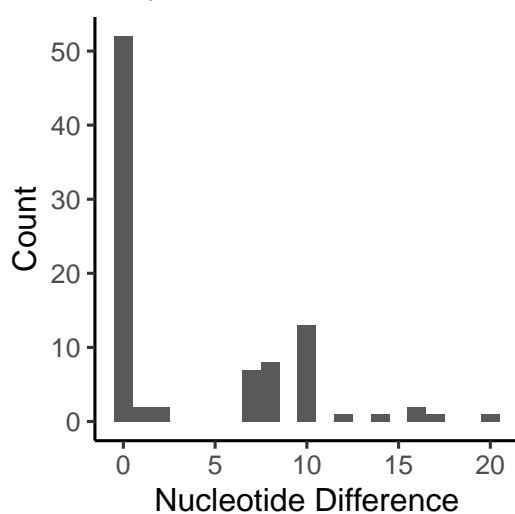
IGHV4-61*01_T288C

61 sequences assigned
9 (14.8%) exact matches, in which:
9 unique CDR3
4 unique J



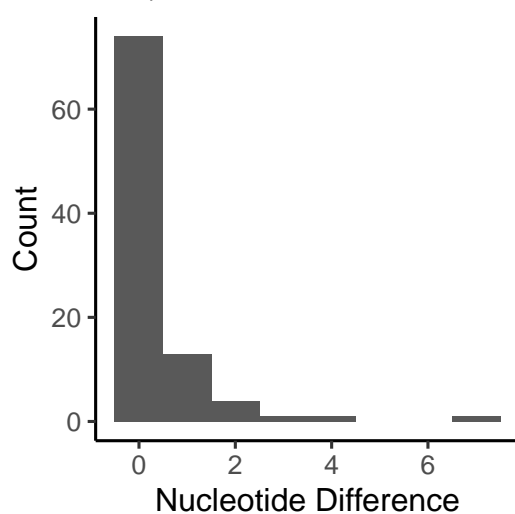
IGHV4-39*07_C300T

95 sequences assigned
52 (54.7%) exact matches, in which:
52 unique CDR3
6 unique J



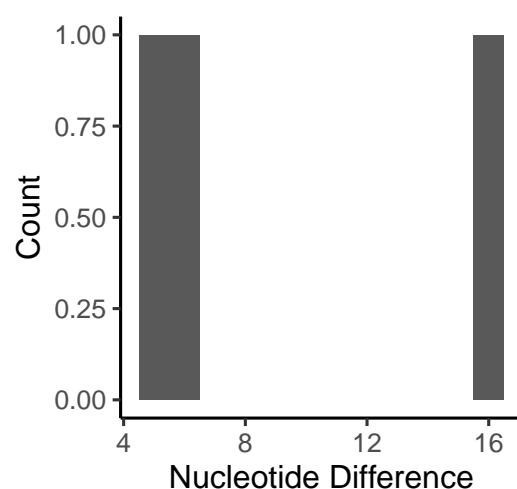
IGHV4-59*12_C300T

96 sequences assigned
74 (77.1%) exact matches, in which:
74 unique CDR3
6 unique J



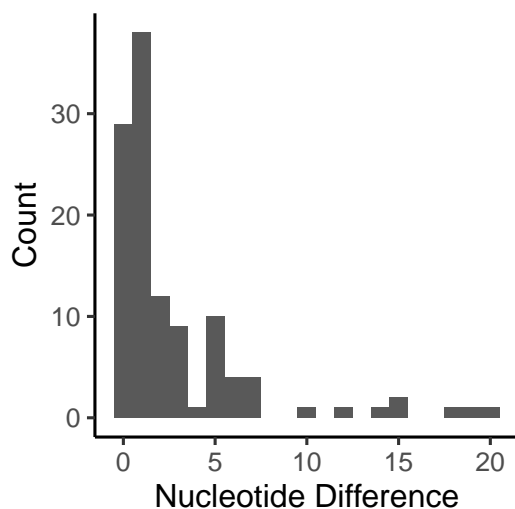
IGHV5-10-1*01_03

3 sequences assigned
No exact matches.



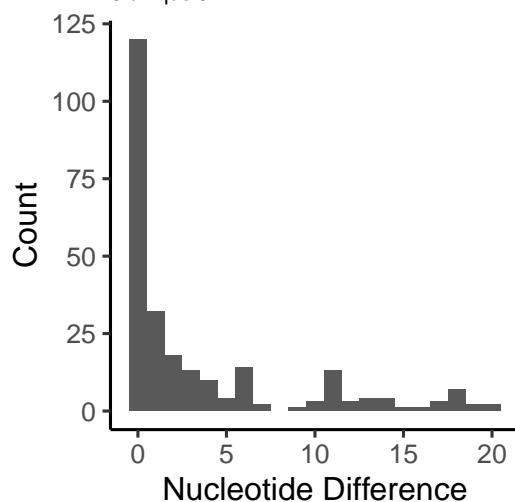
IGHV4-59*12

133 sequences assigned
29 (21.8%) exact matches, in which:
29 unique CDR3
5 unique J



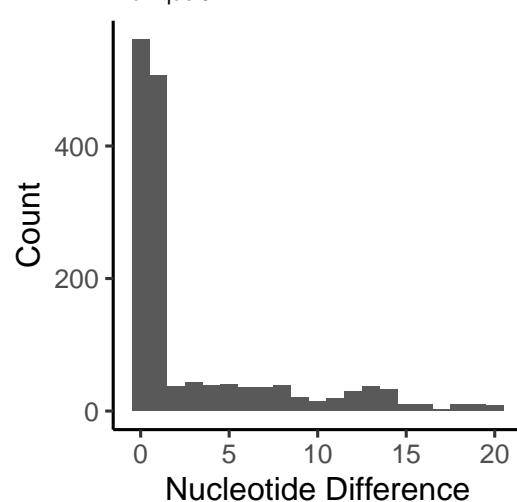
IGHV4-61*01

270 sequences assigned
120 (44.4%) exact matches, in which:
113 unique CDR3
6 unique J



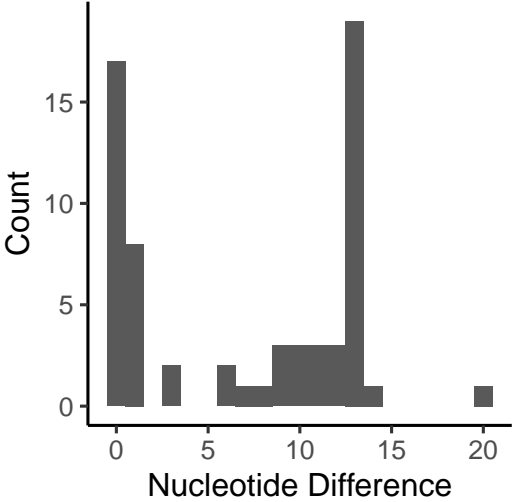
IGHV5-51*07_A128G

1605 sequences assigned
561 (35%) exact matches, in which:
262 unique CDR3
7 unique J



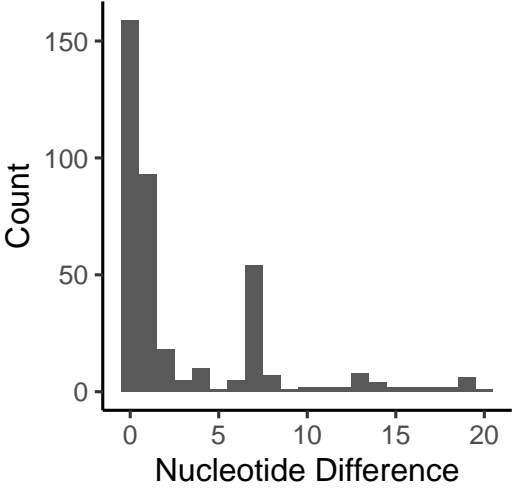
IGHV6-1*01_02

72 sequences assigned
17 (23.6%) exact matches, in which:
16 unique CDR3
4 unique J

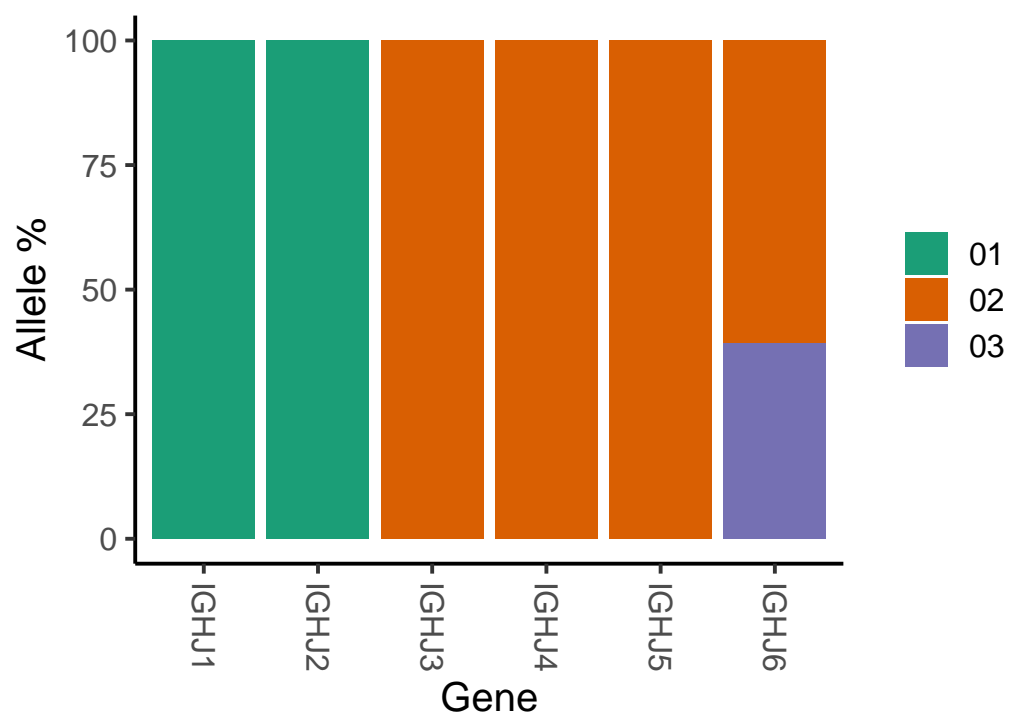


IGHV7-4-1*02

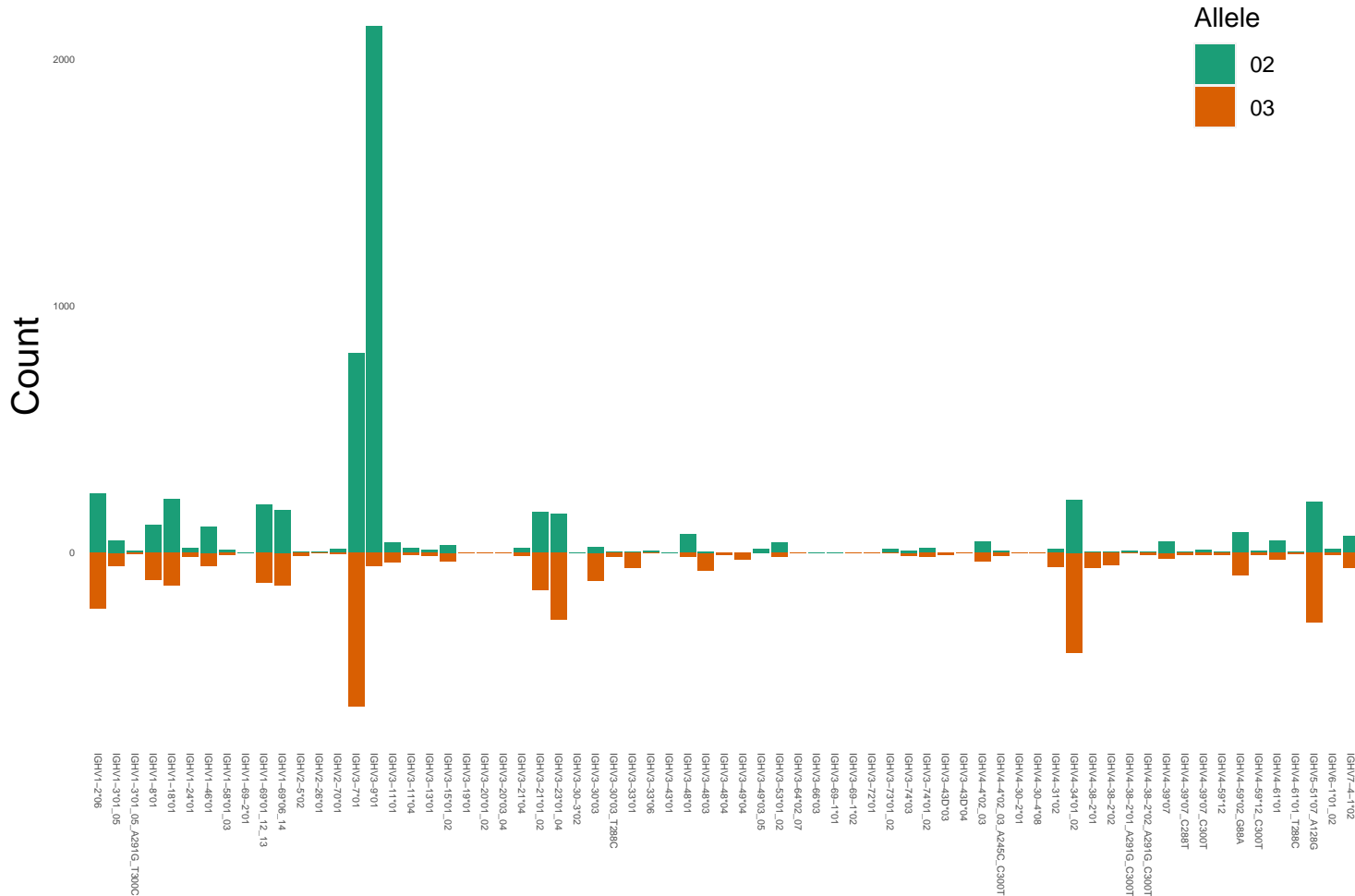
557 sequences assigned
159 (28.5%) exact matches, in which:
132 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.