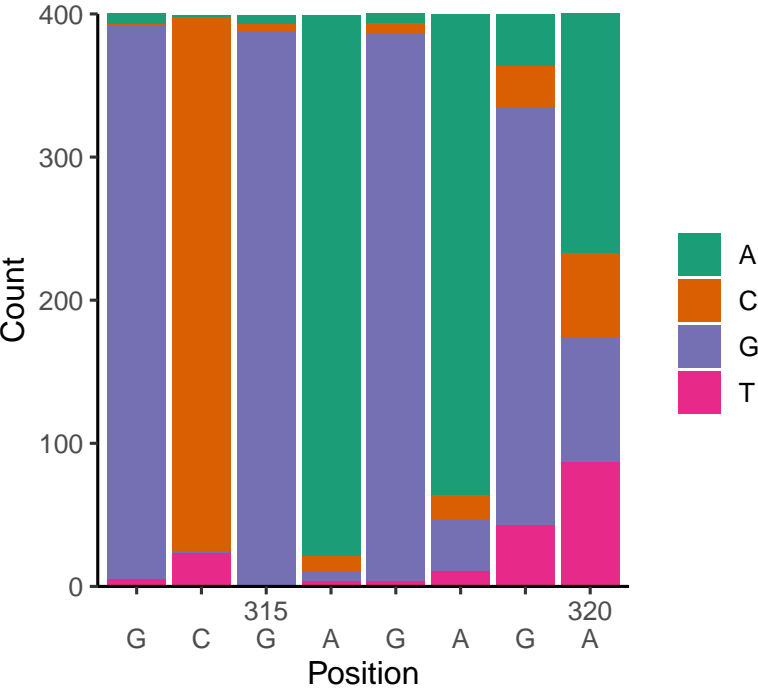
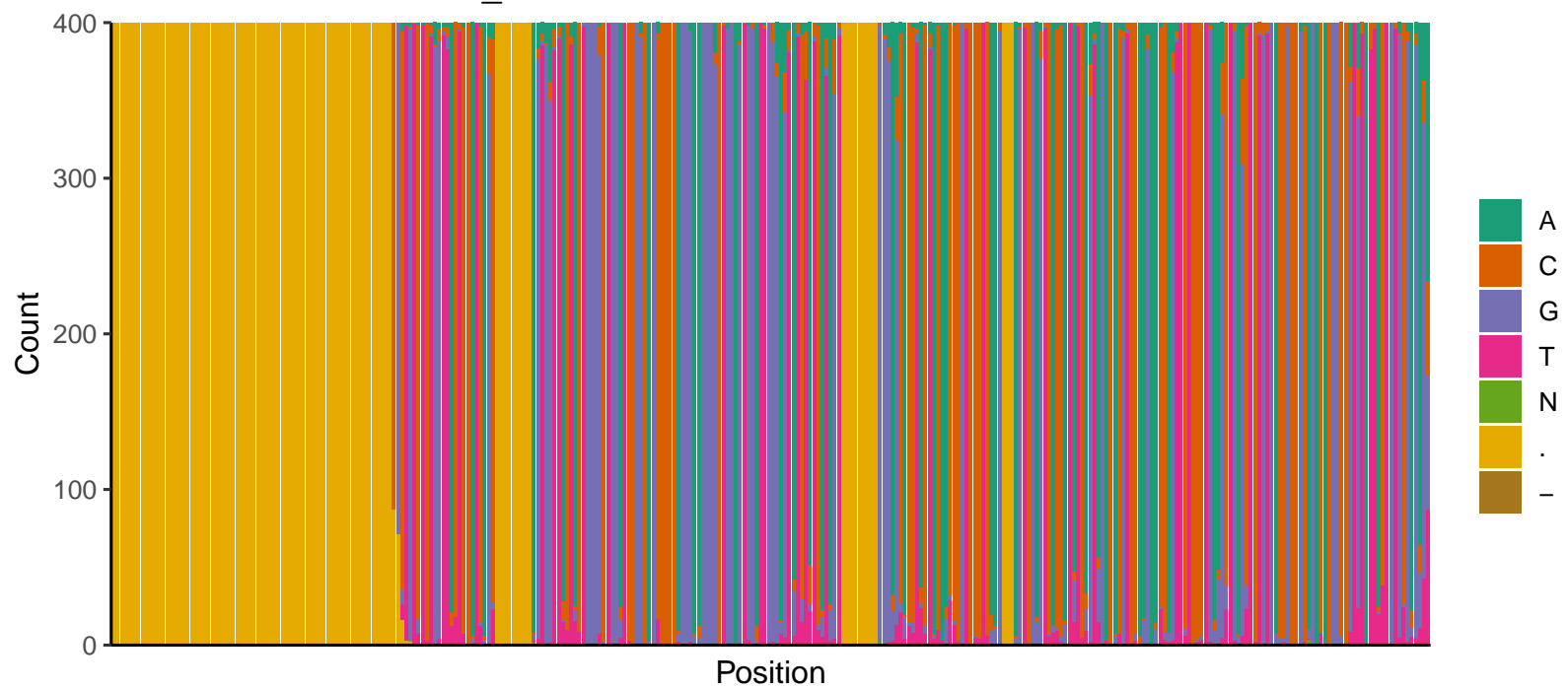


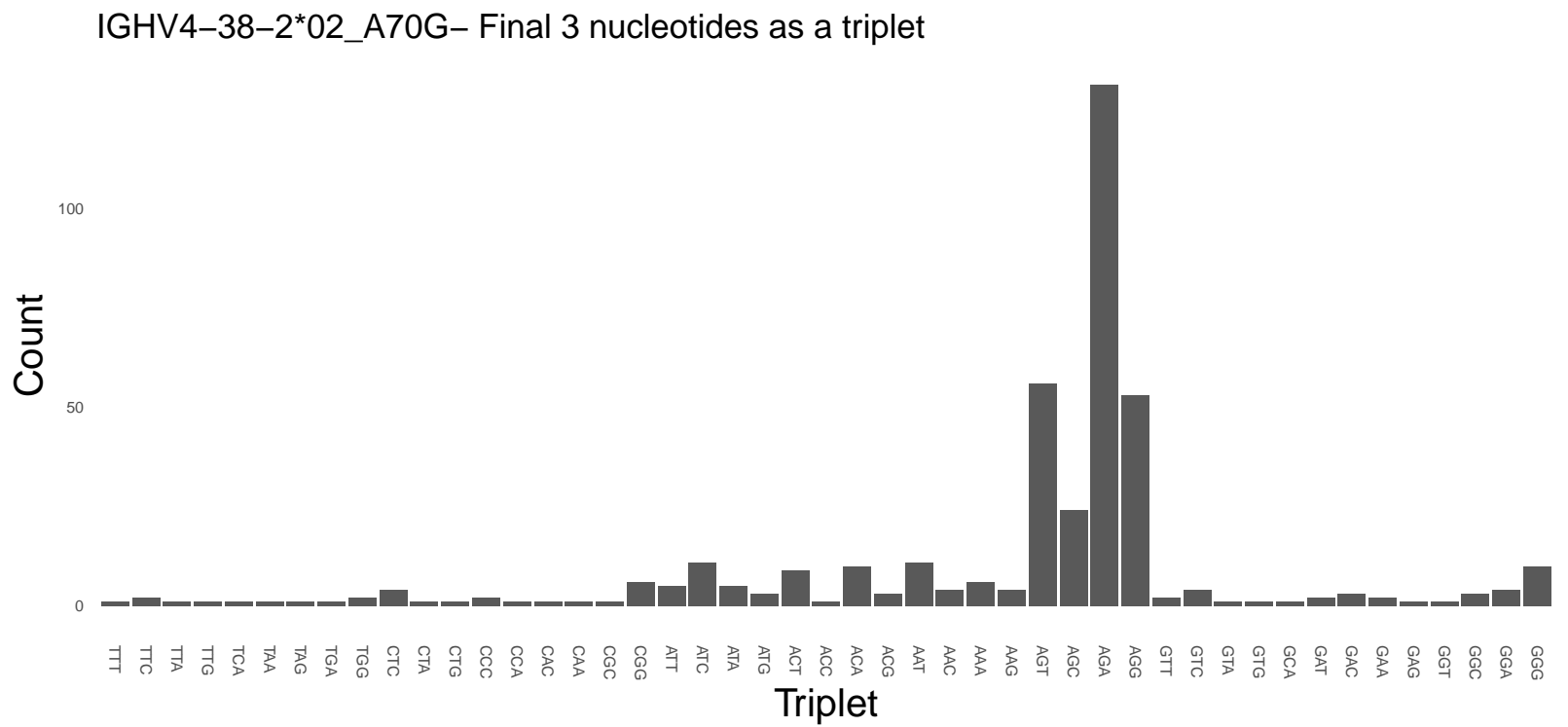
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

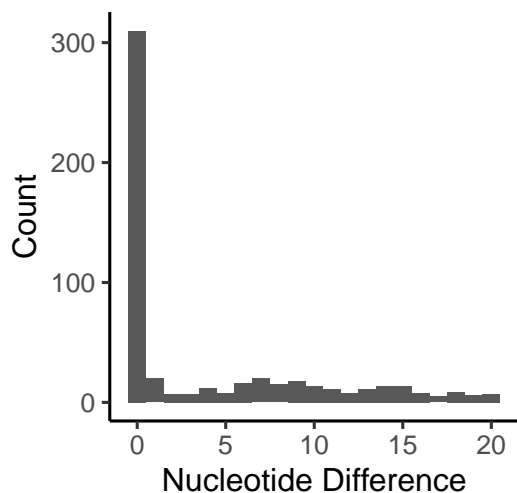


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



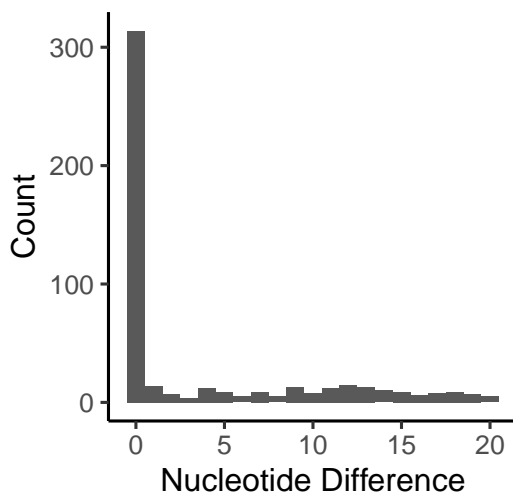
IGHV1-2*02

571 sequences assigned
310 (54.3%) exact matches, in which:
308 unique CDR3
6 unique J



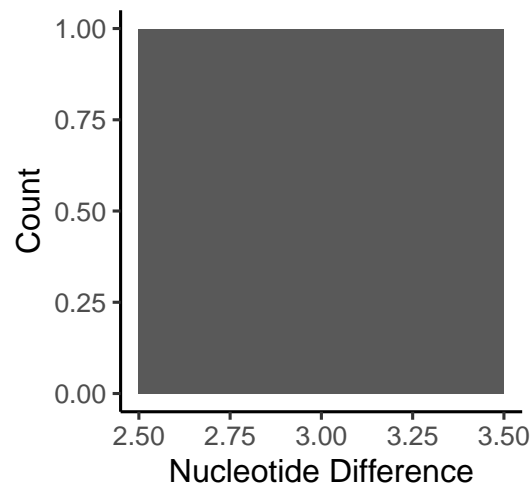
IGHV1-18*01

541 sequences assigned
314 (58%) exact matches, in which:
314 unique CDR3
6 unique J



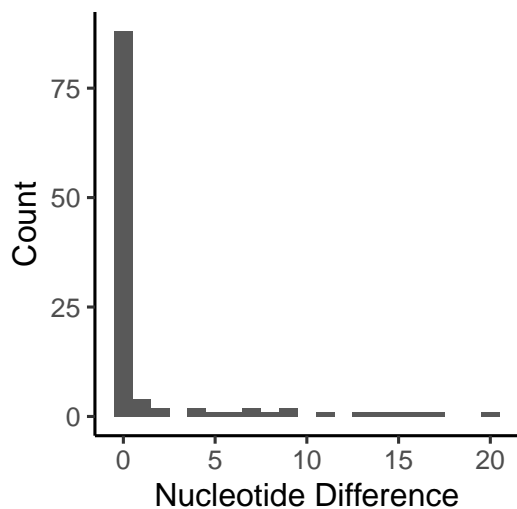
IGHV1-38-4*01

1 sequences assigned
No exact matches.



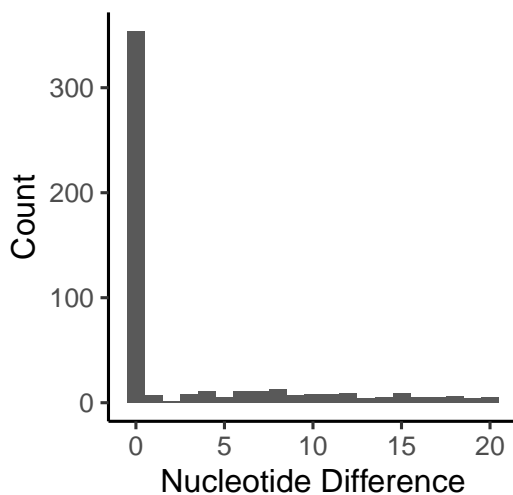
IGHV1-2*04

114 sequences assigned
88 (77.2%) exact matches, in which:
88 unique CDR3
5 unique J



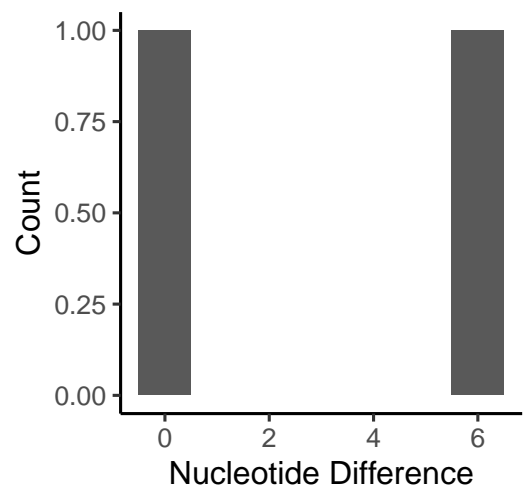
IGHV1-18*04

511 sequences assigned
354 (69.3%) exact matches, in which:
354 unique CDR3
6 unique J



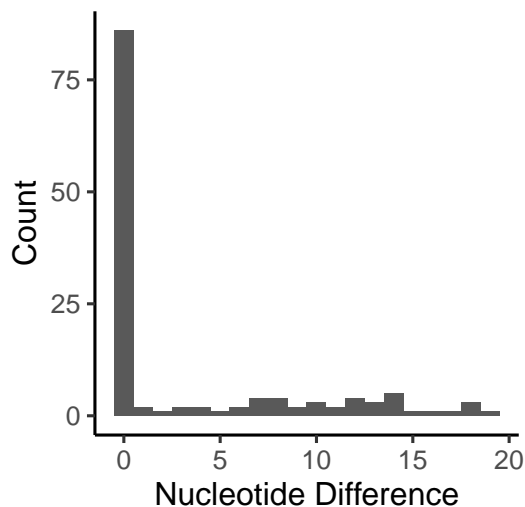
IGHV1-45*02

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



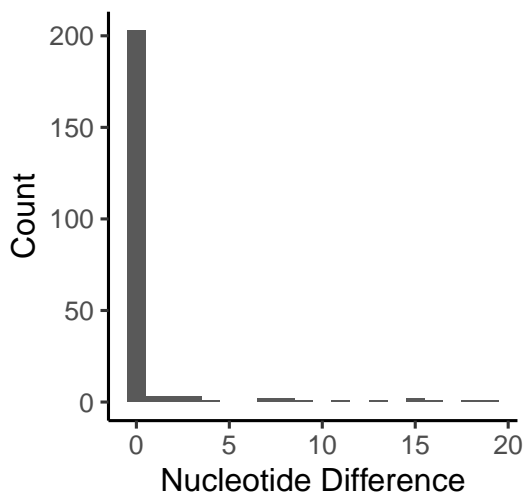
IGHV1-3*01_05

138 sequences assigned
86 (62.3%) exact matches, in which:
86 unique CDR3
6 unique J



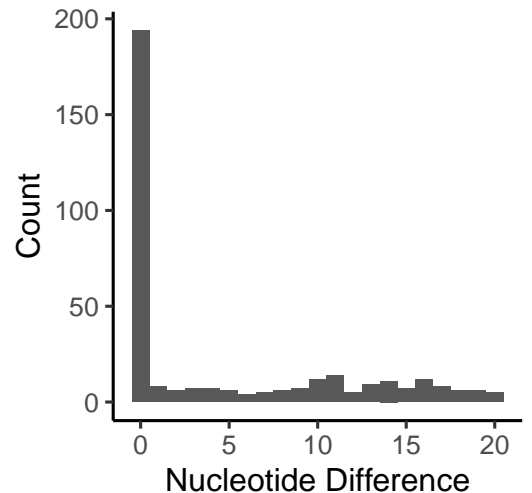
IGHV1-24*01

227 sequences assigned
203 (89.4%) exact matches, in which:
203 unique CDR3
6 unique J



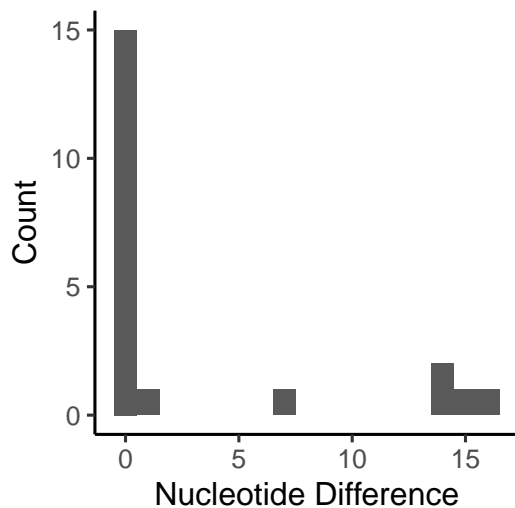
IGHV1-46*01

383 sequences assigned
194 (50.7%) exact matches, in which:
194 unique CDR3
6 unique J



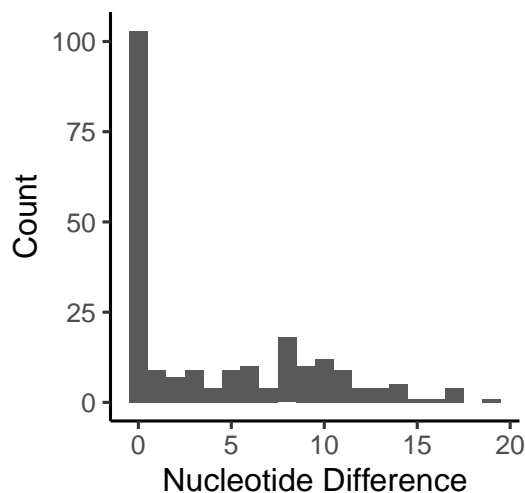
IGHV1-58*02

21 sequences assigned
15 (71.4%) exact matches, in which:
15 unique CDR3
5 unique J



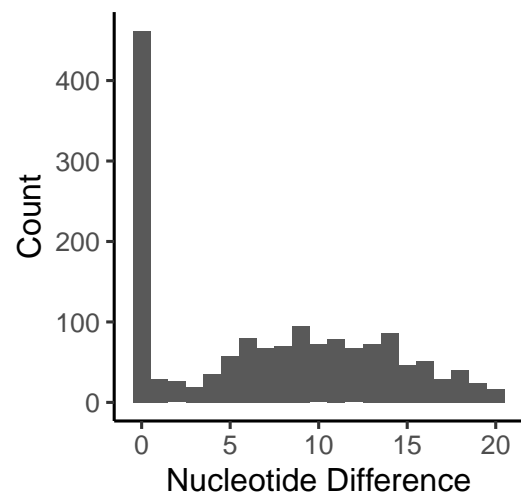
IGHV2-5*02

231 sequences assigned
103 (44.6%) exact matches, in which:
102 unique CDR3
6 unique J



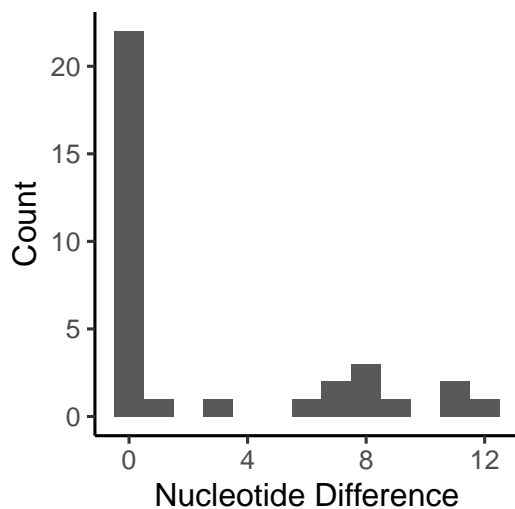
IGHV3-7*03

1605 sequences assigned
462 (28.8%) exact matches, in which:
447 unique CDR3
6 unique J



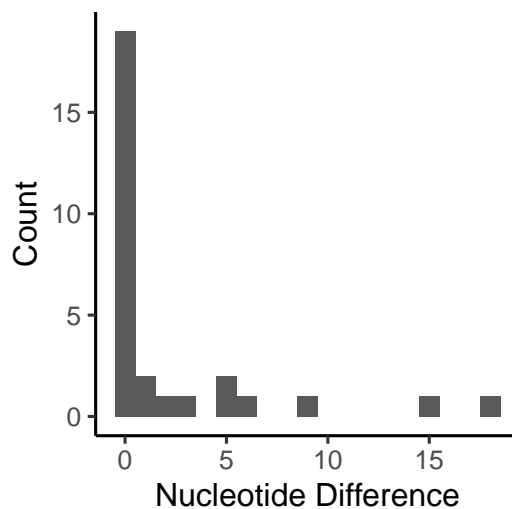
IGHV1-58*01_03

35 sequences assigned
22 (62.9%) exact matches, in which:
22 unique CDR3
5 unique J



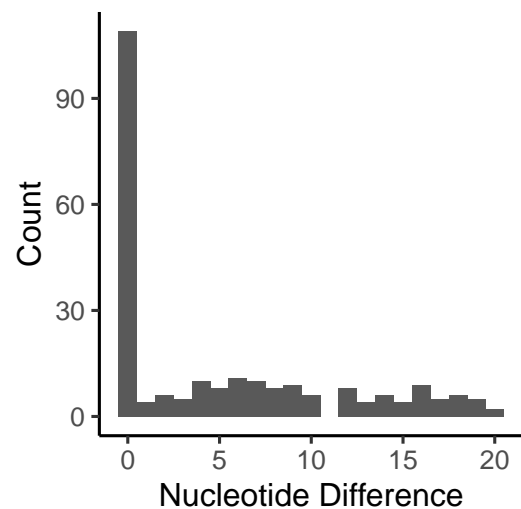
IGHV2-26*01

30 sequences assigned
19 (63.3%) exact matches, in which:
19 unique CDR3
5 unique J



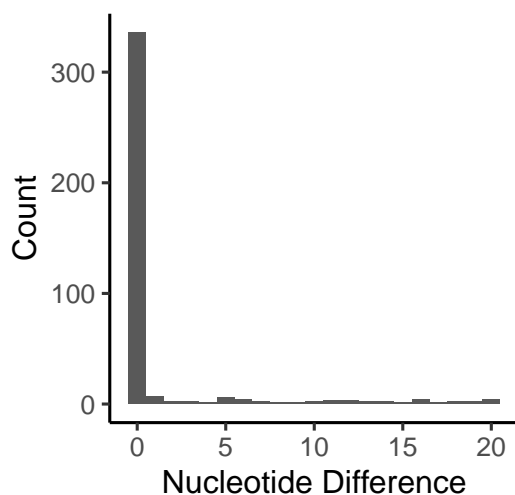
IGHV3-11*06

250 sequences assigned
109 (43.6%) exact matches, in which:
103 unique CDR3
5 unique J



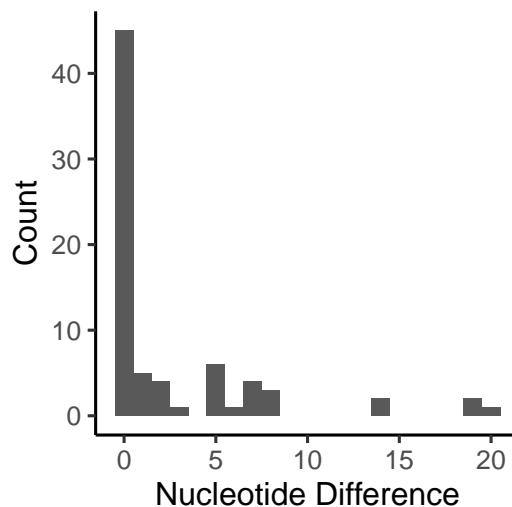
IGHV1-69*06_14

406 sequences assigned
336 (82.8%) exact matches, in which:
336 unique CDR3
6 unique J



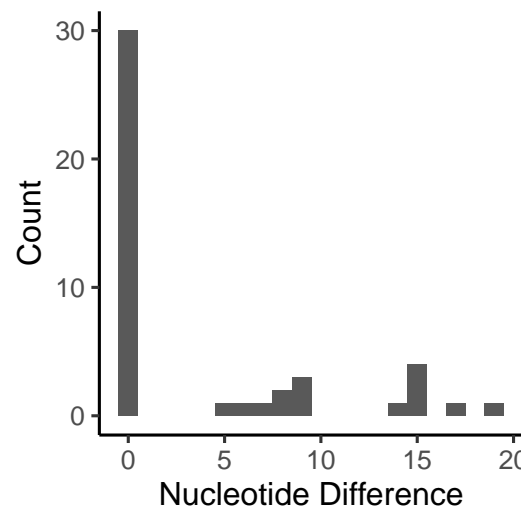
IGHV2-70*01

75 sequences assigned
45 (60%) exact matches, in which:
44 unique CDR3
4 unique J



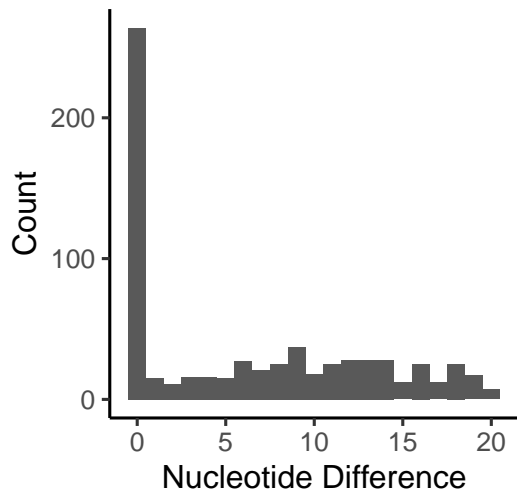
IGHV3-13*05

59 sequences assigned
30 (50.8%) exact matches, in which:
28 unique CDR3
5 unique J



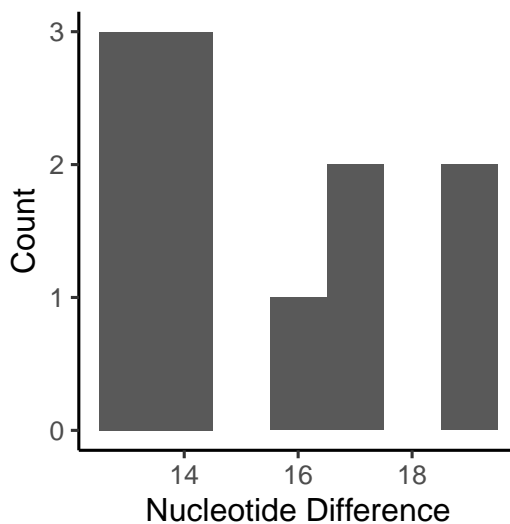
IGHV3-15*01_02

713 sequences assigned
264 (37%) exact matches, in which:
255 unique CDR3
6 unique J



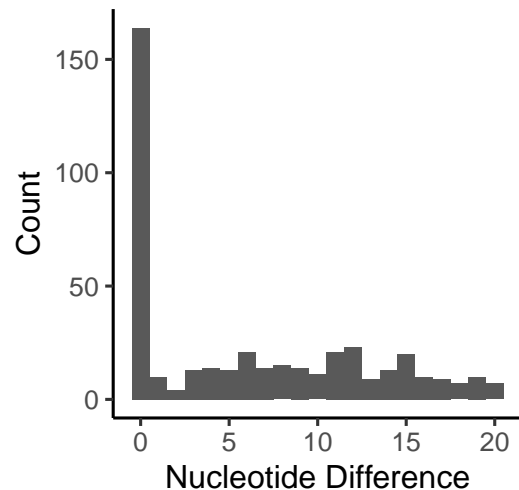
IGHV3-30-3*03

11 sequences assigned
No exact matches.



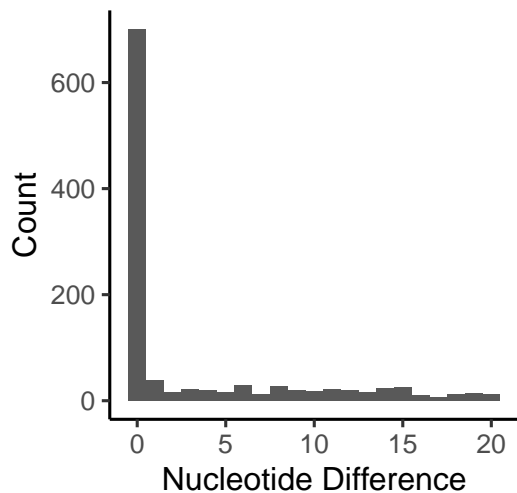
IGHV3-48*01

451 sequences assigned
164 (36.4%) exact matches, in which:
161 unique CDR3
6 unique J



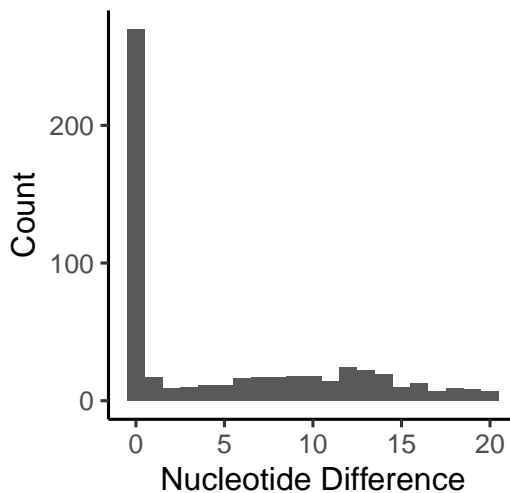
IGHV3-21*01_02

1146 sequences assigned
701 (61.2%) exact matches, in which:
684 unique CDR3
6 unique J



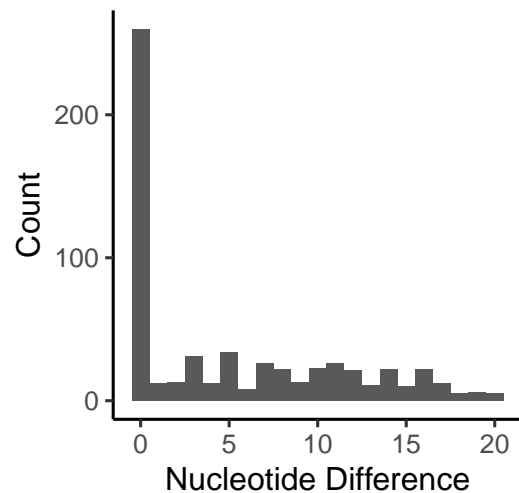
IGHV3-33*01

577 sequences assigned
270 (46.8%) exact matches, in which:
268 unique CDR3
6 unique J



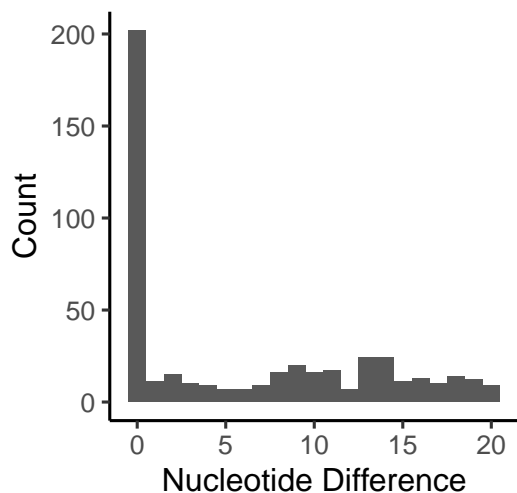
IGHV3-48*03

634 sequences assigned
260 (41%) exact matches, in which:
257 unique CDR3
6 unique J



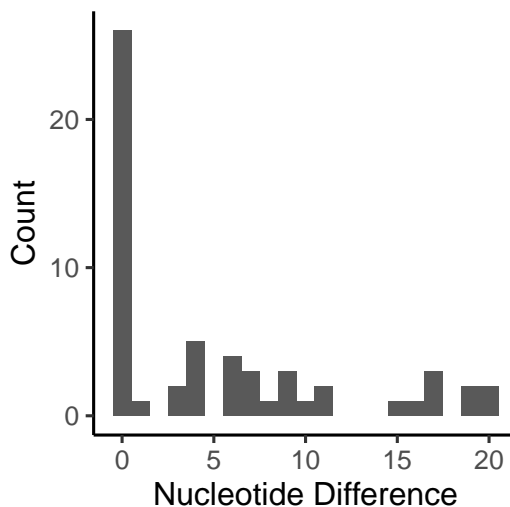
IGHV3-30*01

483 sequences assigned
202 (41.8%) exact matches, in which:
197 unique CDR3
6 unique J



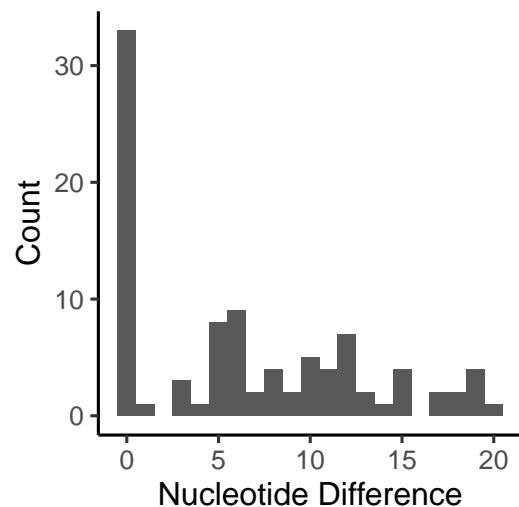
IGHV3-43*01

60 sequences assigned
26 (43.3%) exact matches, in which:
25 unique CDR3
4 unique J



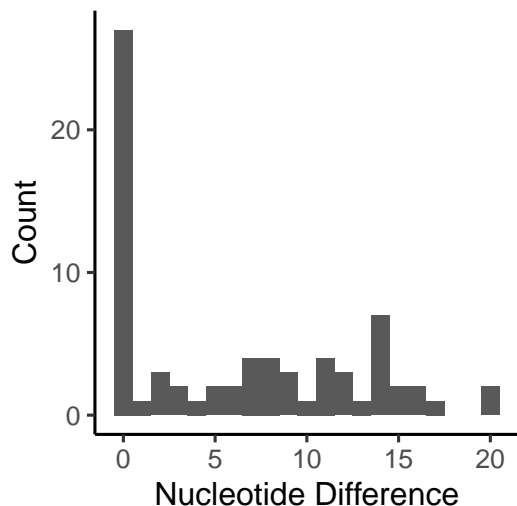
IGHV3-49*04

101 sequences assigned
33 (32.7%) exact matches, in which:
33 unique CDR3
6 unique J



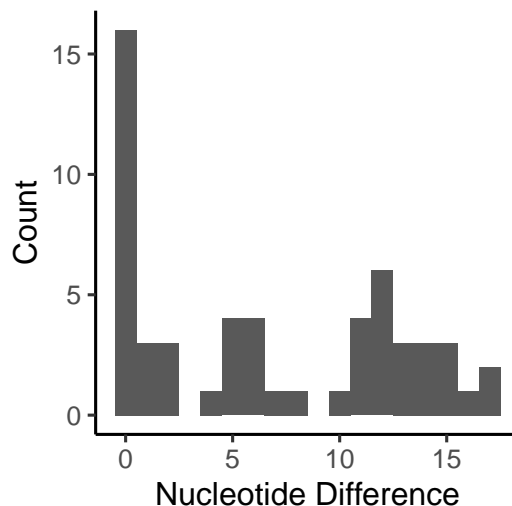
IGHV3-49*03_05

74 sequences assigned
27 (36.5%) exact matches, in which:
27 unique CDR3
4 unique J



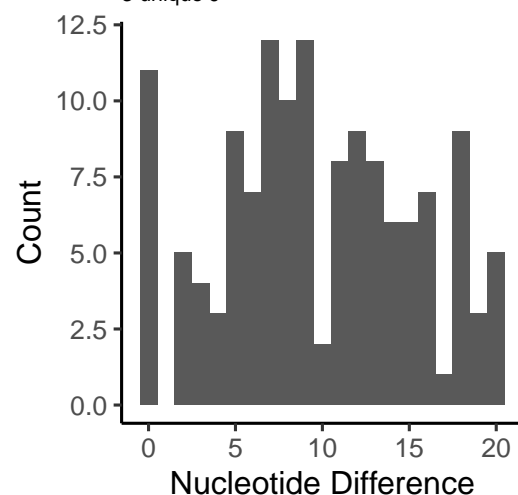
IGHV3-64*01

56 sequences assigned
16 (28.6%) exact matches, in which:
15 unique CDR3
3 unique J



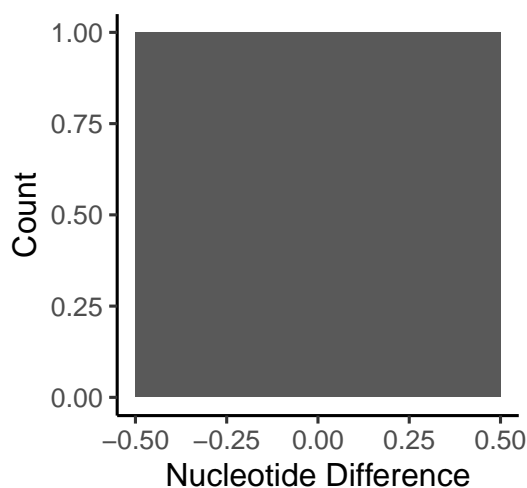
IGHV3-72*01

153 sequences assigned
11 (7.2%) exact matches, in which:
11 unique CDR3
3 unique J



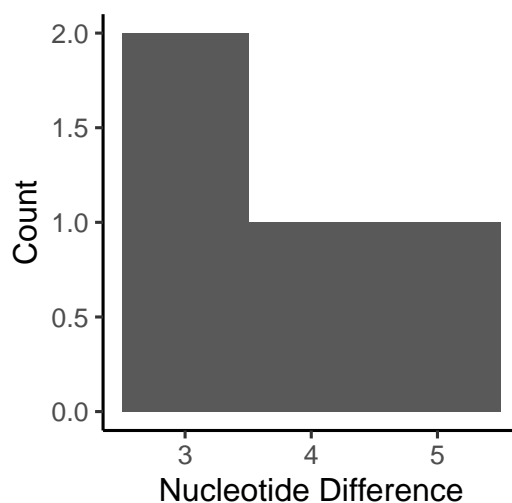
IGHV3-52*01_03

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



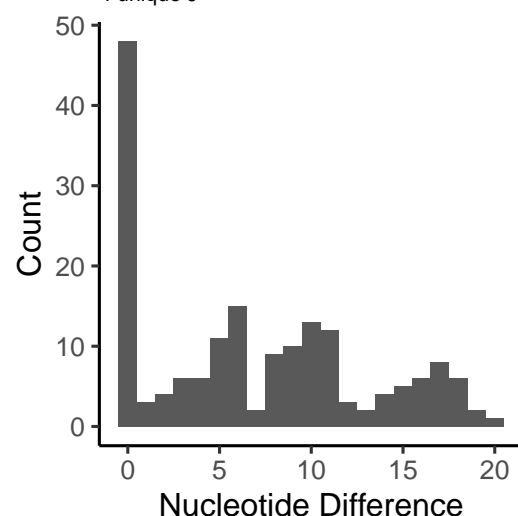
IGHV3-69-1*01

4 sequences assigned
No exact matches.



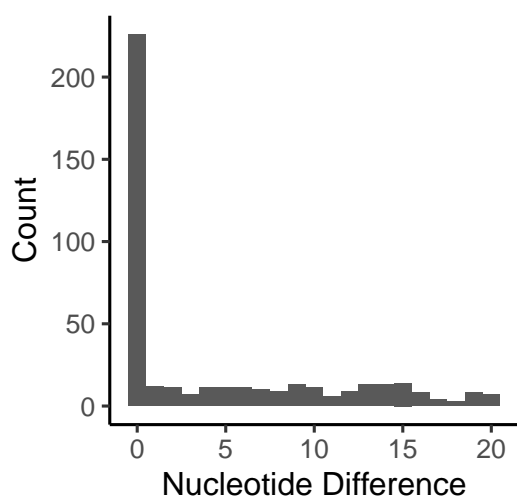
IGHV3-73*01_02

185 sequences assigned
48 (25.9%) exact matches, in which:
45 unique CDR3
4 unique J



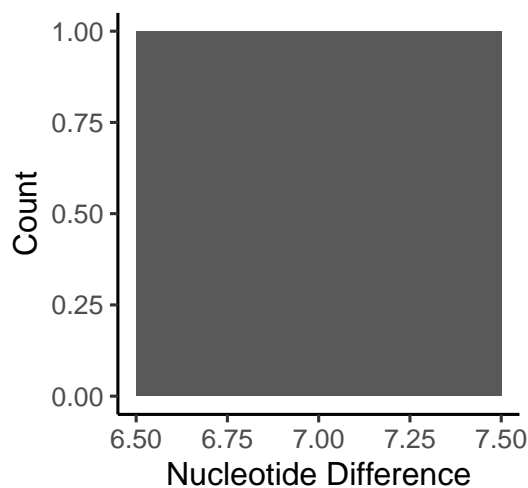
IGHV3-53*01_02

466 sequences assigned
226 (48.5%) exact matches, in which:
218 unique CDR3
6 unique J



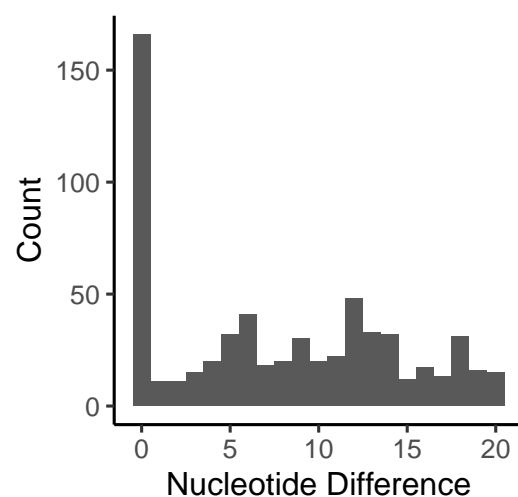
IGHV3-69-1*02

1 sequences assigned
No exact matches.



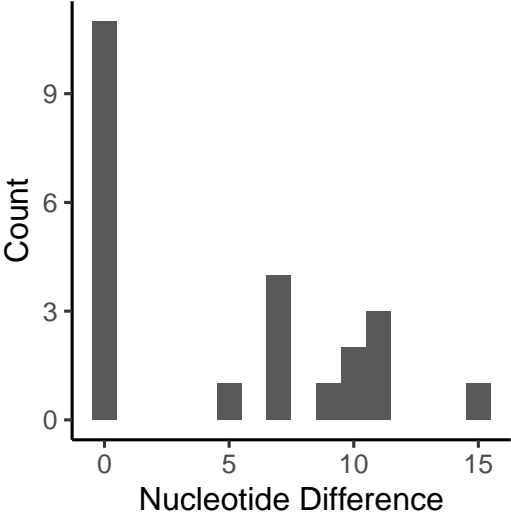
IGHV3-74*01_02

665 sequences assigned
166 (25%) exact matches, in which:
155 unique CDR3
6 unique J



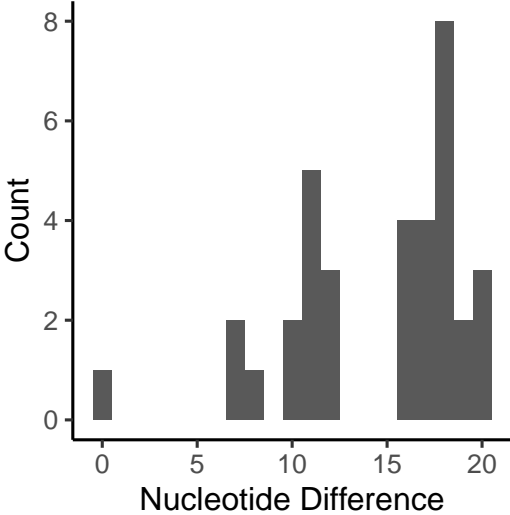
IGHV3-43D*04

25 sequences assigned
11 (44%) exact matches, in which:
11 unique CDR3
3 unique J



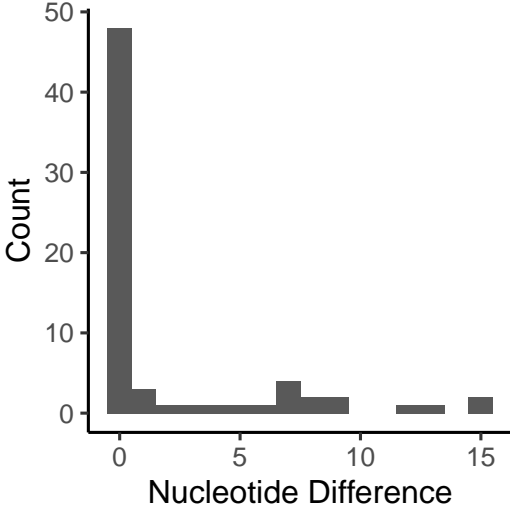
IGHV4-28*01_07

35 sequences assigned
1 (2.9%) exact matches, in which:
1 unique CDR3
1 unique J



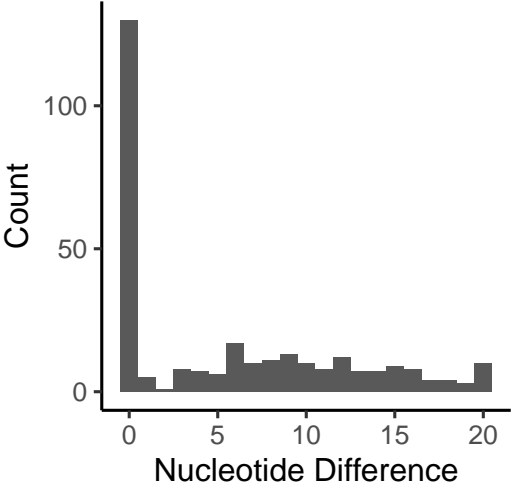
IGHV4-31*01

70 sequences assigned
48 (68.6%) exact matches, in which:
47 unique CDR3
5 unique J



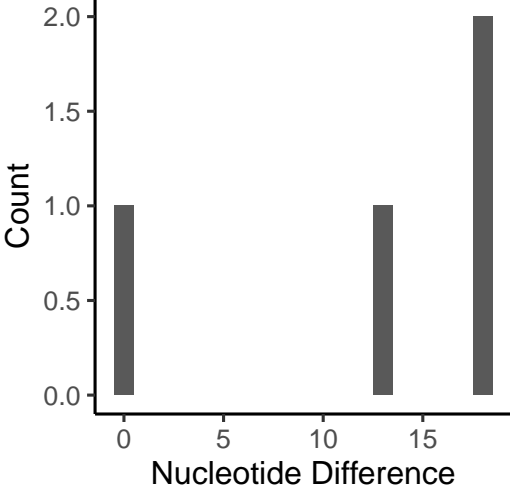
IGHV3-64D*06

320 sequences assigned
130 (40.6%) exact matches, in which:
129 unique CDR3
6 unique J



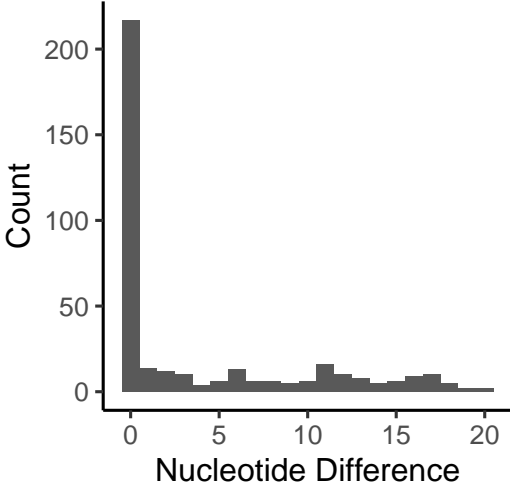
IGHV4-28*02_05

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



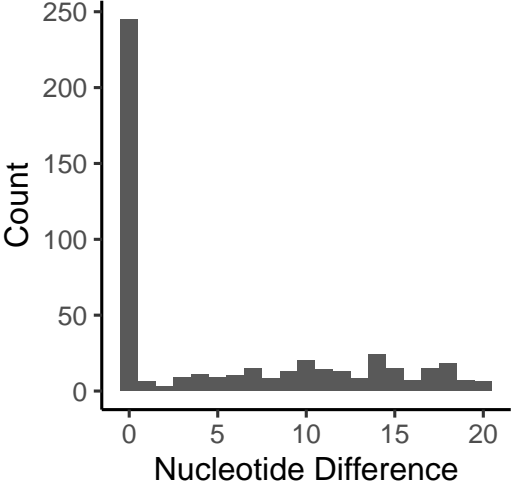
IGHV4-31*03_04

435 sequences assigned
217 (49.9%) exact matches, in which:
216 unique CDR3
6 unique J



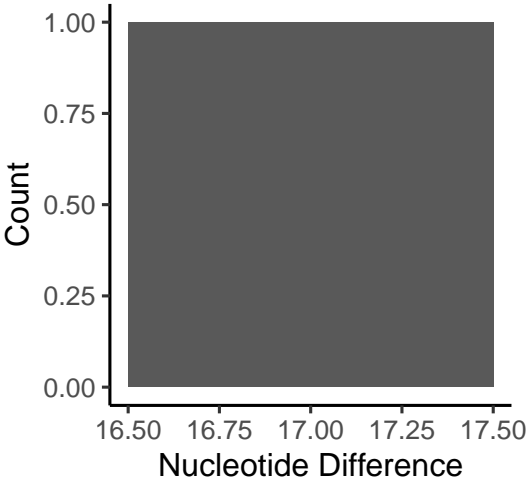
IGHV4-4*07

520 sequences assigned
245 (47.1%) exact matches, in which:
241 unique CDR3
6 unique J



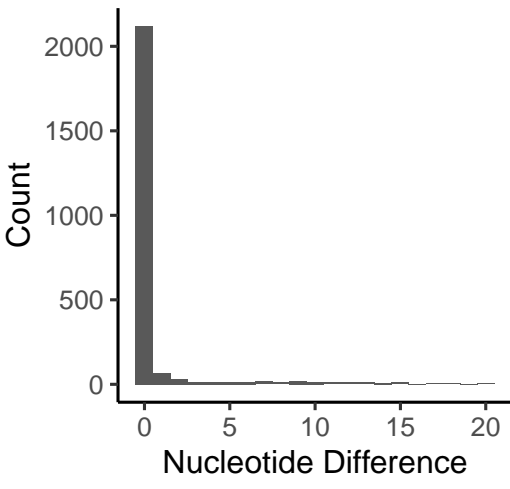
IGHV4-30-2*01

1 sequences assigned
No exact matches.



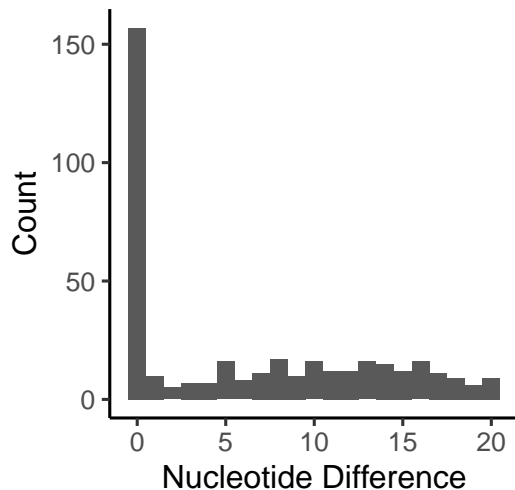
IGHV4-34*01_02

2440 sequences assigned
2120 (86.9%) exact matches, in which:
2101 unique CDR3
6 unique J



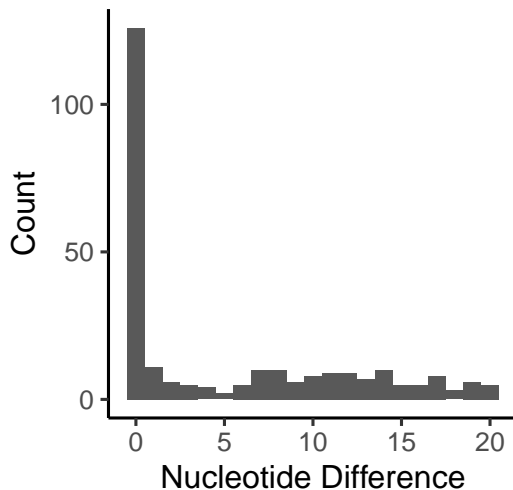
IGHV4-38-2*02_A70G

400 sequences assigned
157 (39.2%) exact matches, in which:
154 unique CDR3
6 unique J



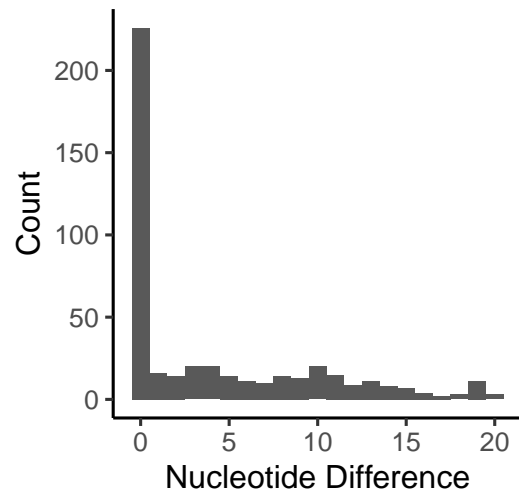
IGHV4-61*01

293 sequences assigned
126 (43%) exact matches, in which:
123 unique CDR3
5 unique J



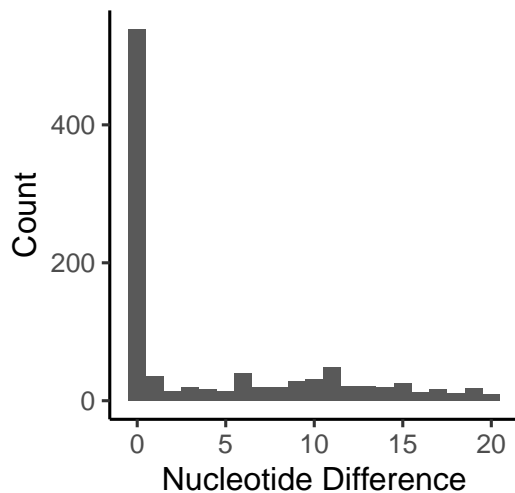
IGHV5-51*01_03

467 sequences assigned
226 (48.4%) exact matches, in which:
226 unique CDR3
6 unique J



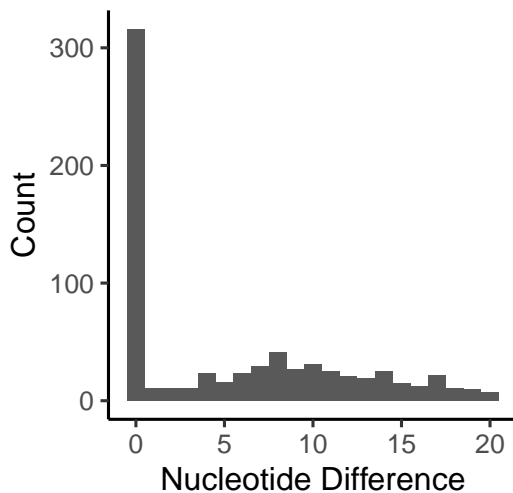
IGHV4-39*01_05

1035 sequences assigned
539 (52.1%) exact matches, in which:
527 unique CDR3
6 unique J



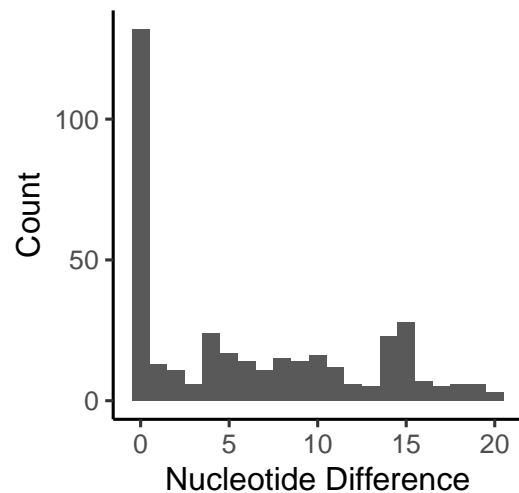
IGHV4-61*02

768 sequences assigned
316 (41.1%) exact matches, in which:
311 unique CDR3
6 unique J



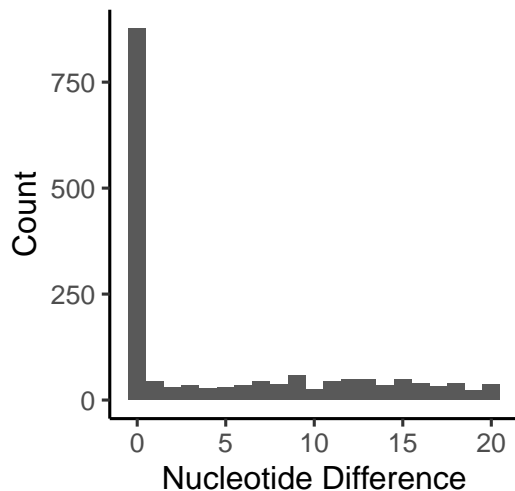
IGHV6-1*01_02

381 sequences assigned
132 (34.6%) exact matches, in which:
132 unique CDR3
6 unique J



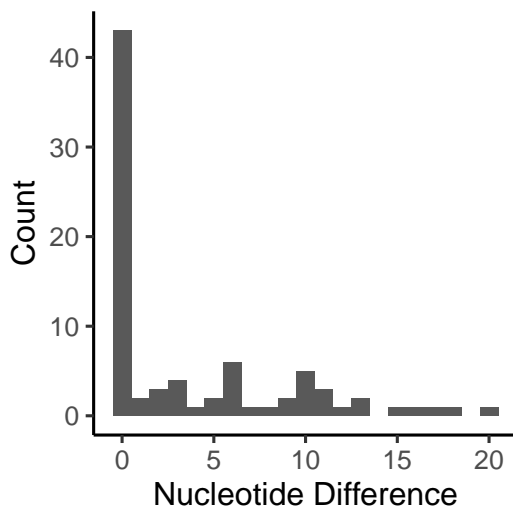
IGHV4-59*01_07

1755 sequences assigned
877 (50%) exact matches, in which:
856 unique CDR3
6 unique J



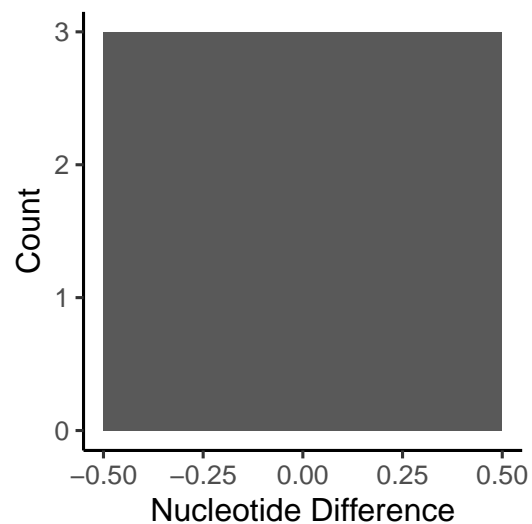
IGHV5-10-1*01_03

84 sequences assigned
43 (51.2%) exact matches, in which:
43 unique CDR3
5 unique J



IGHV7-4-1*01

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





Warning - no inferred sequences found.