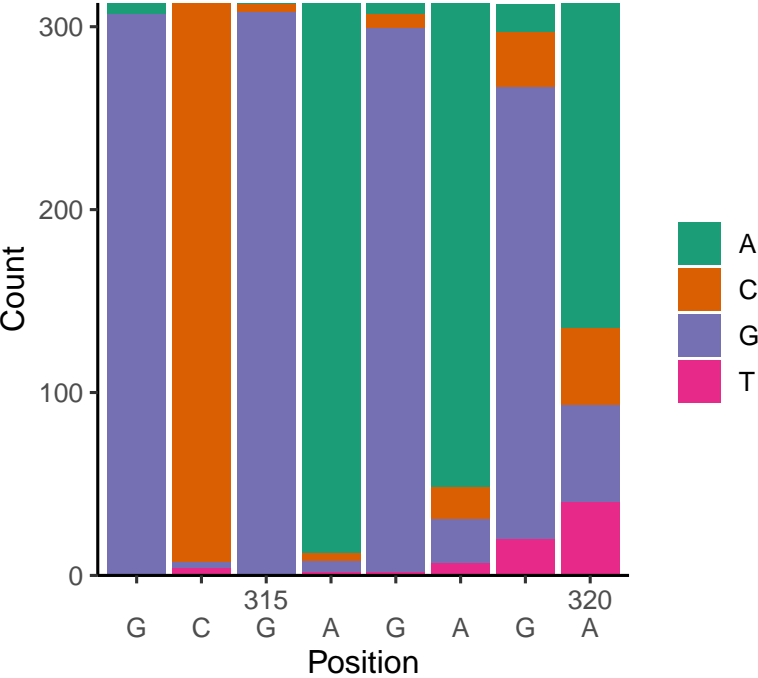
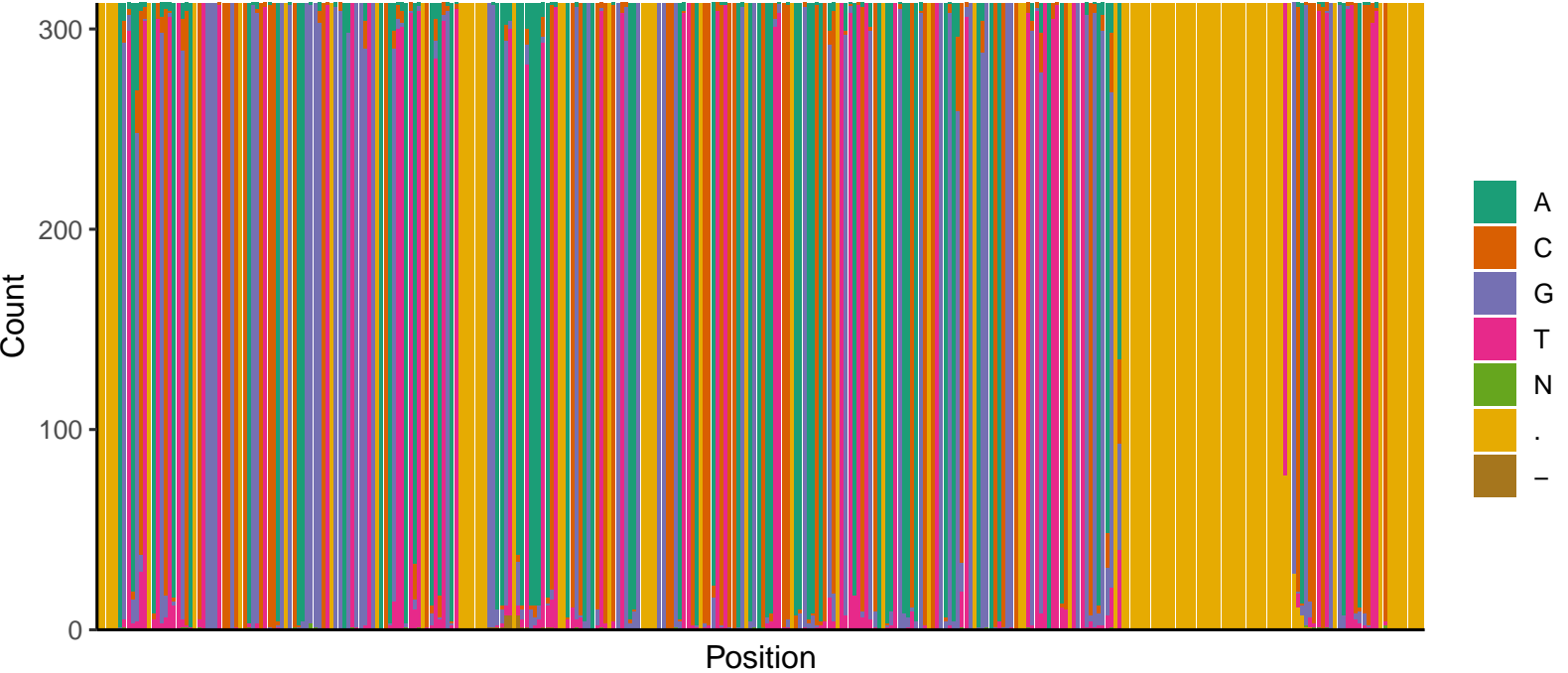


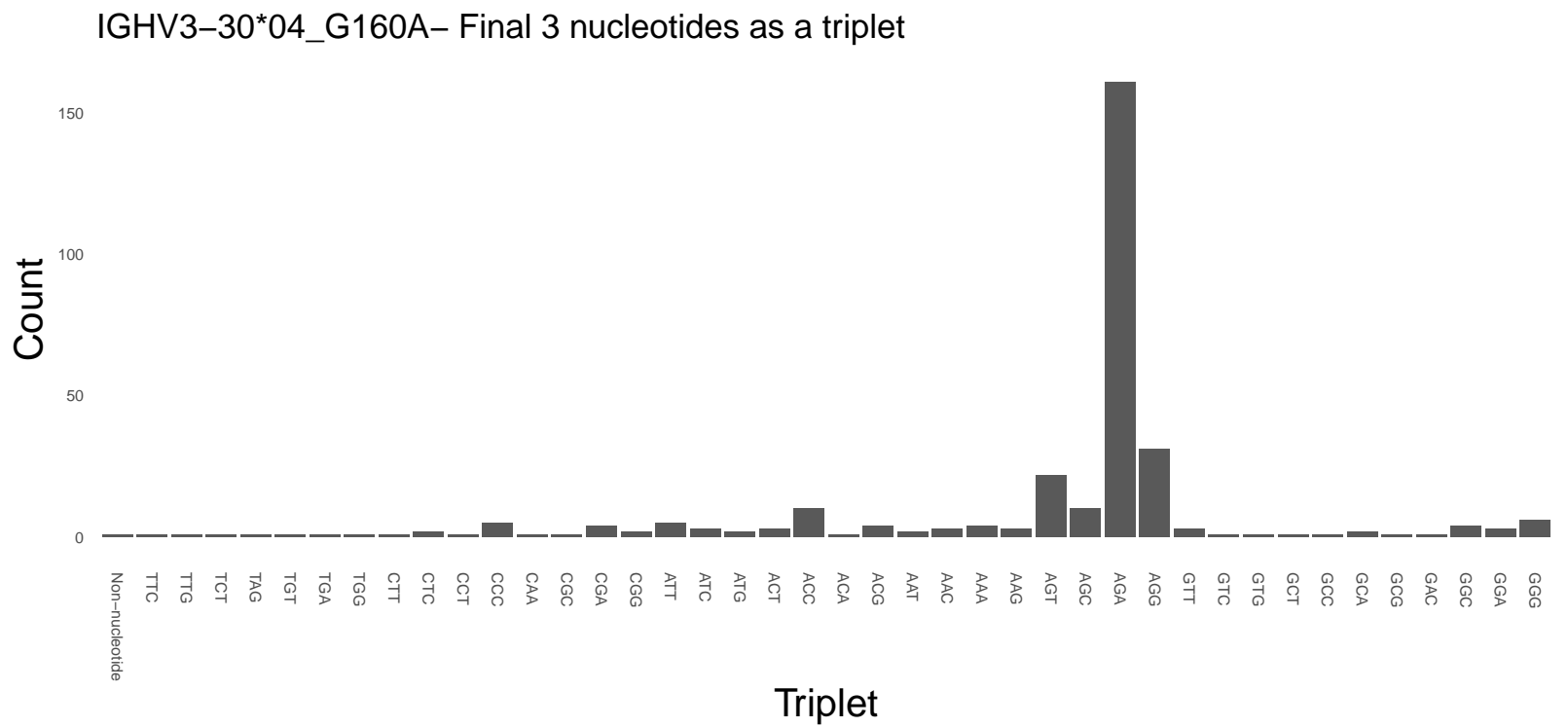
Gene IGHV3-30*04_G160A



Gene IGHV3-30*04_G160A

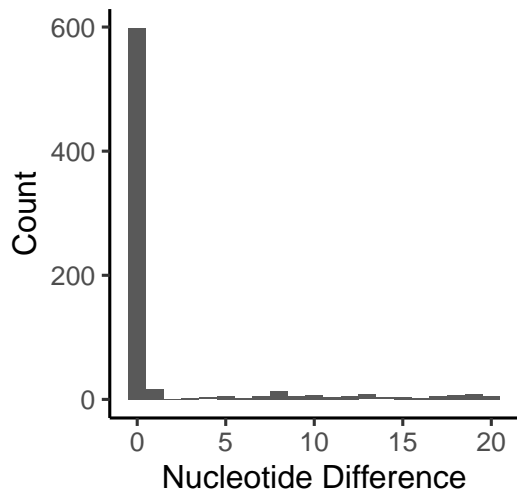


IGHV3-30*04_G160A- Final 3 nucleotides as a triplet



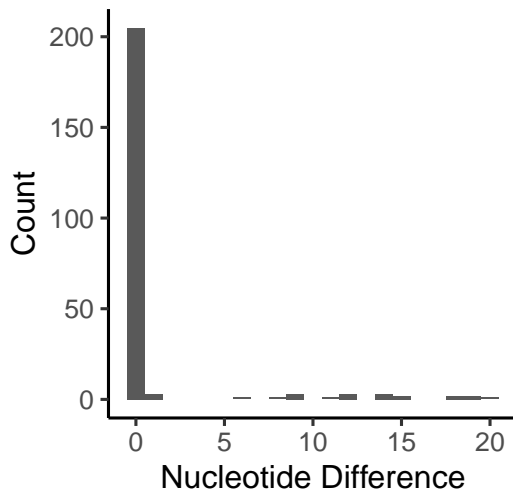
IGHV1-2*06

743 sequences assigned
599 (80.6%) exact matches, in which:
596 unique CDR3
6 unique J



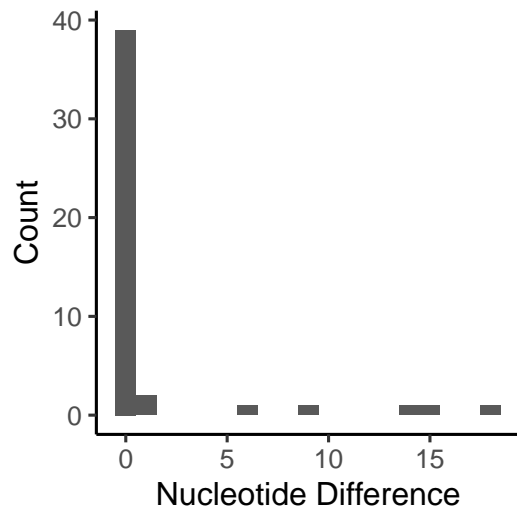
IGHV1-24*01

242 sequences assigned
205 (84.7%) exact matches, in which:
204 unique CDR3
6 unique J



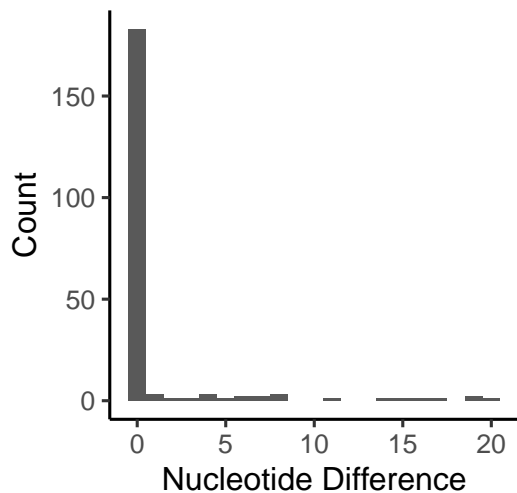
IGHV1-58*02

46 sequences assigned
39 (84.8%) exact matches, in which:
39 unique CDR3
5 unique J



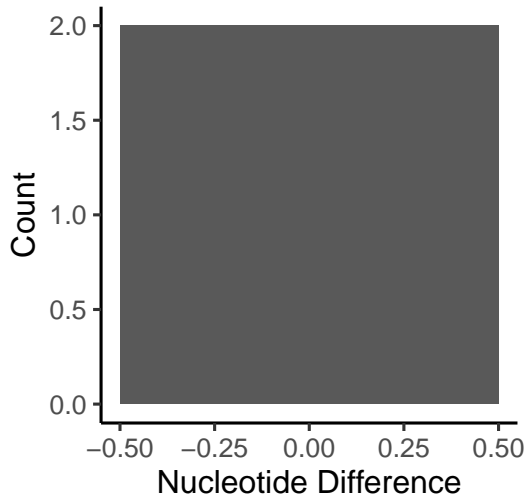
IGHV1-8*01

217 sequences assigned
183 (84.3%) exact matches, in which:
183 unique CDR3
6 unique J



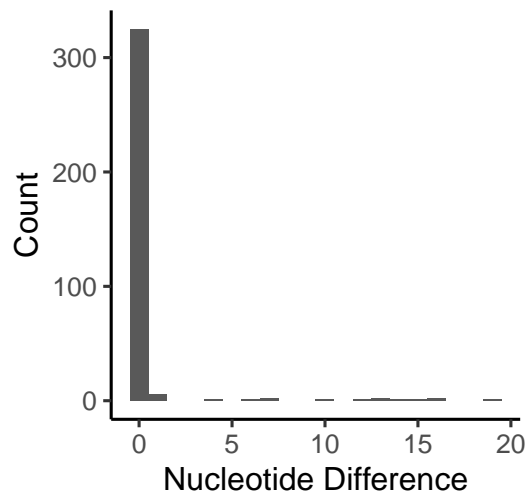
IGHV1-45*02

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



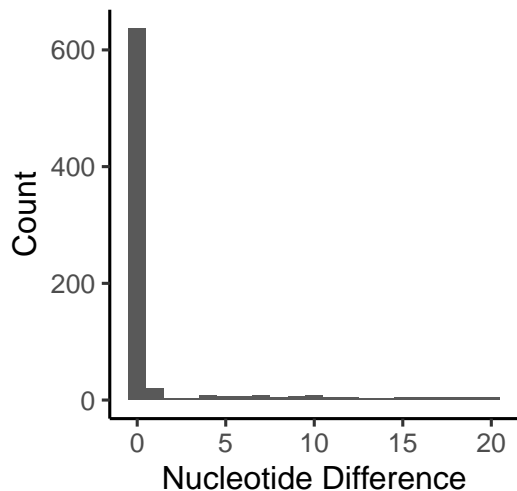
IGHV1-69*10

356 sequences assigned
325 (91.3%) exact matches, in which:
325 unique CDR3
6 unique J



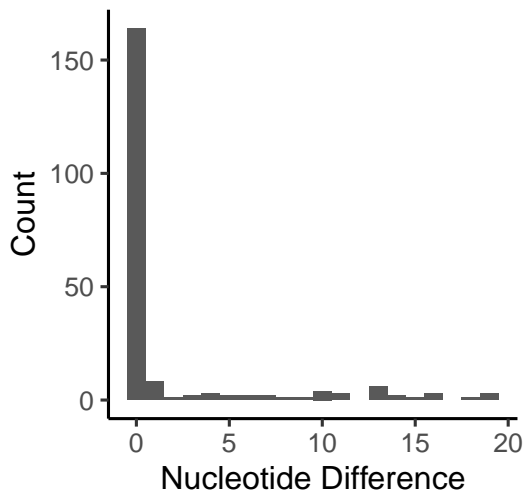
IGHV1-18*01

789 sequences assigned
637 (80.7%) exact matches, in which:
636 unique CDR3
6 unique J



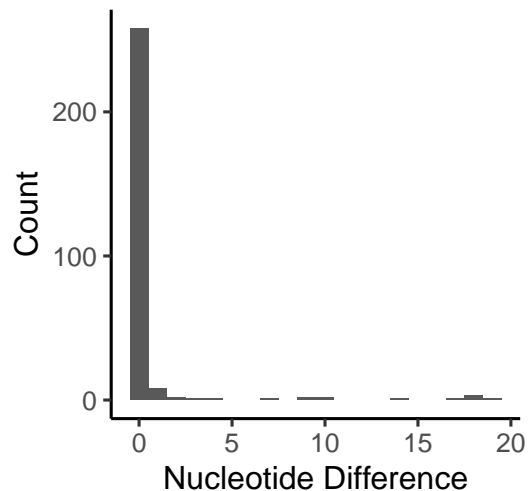
IGHV1-46*01

223 sequences assigned
164 (73.5%) exact matches, in which:
163 unique CDR3
6 unique J



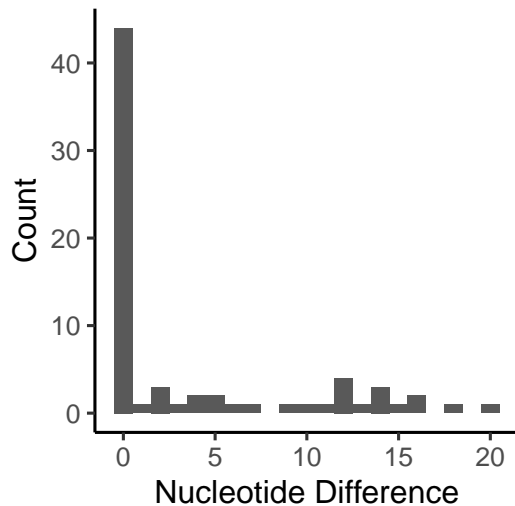
IGHV1-69*04_09

301 sequences assigned
258 (85.7%) exact matches, in which:
258 unique CDR3
6 unique J



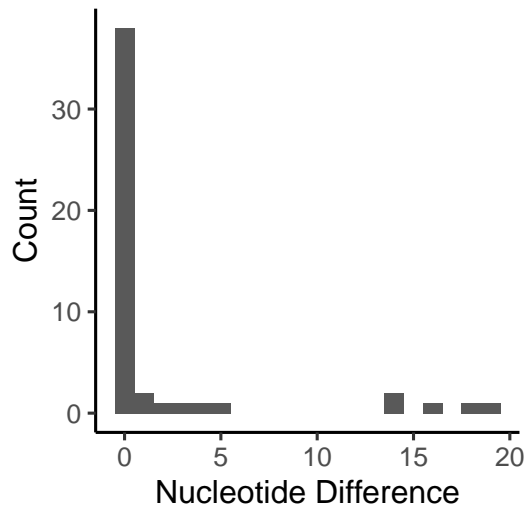
IGHV2-5*01

78 sequences assigned
44 (56.4%) exact matches, in which:
44 unique CDR3
6 unique J



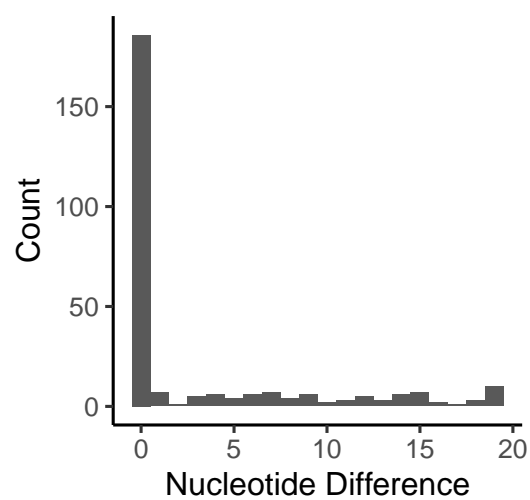
IGHV2-70*11_15

51 sequences assigned
38 (74.5%) exact matches, in which:
37 unique CDR3
4 unique J



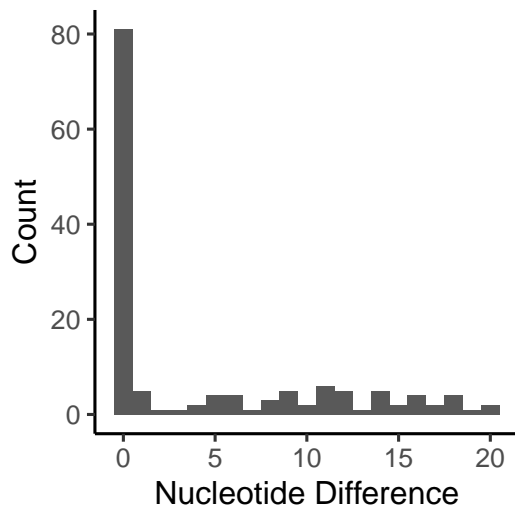
IGHV3-9*01

287 sequences assigned
186 (64.8%) exact matches, in which:
178 unique CDR3
6 unique J



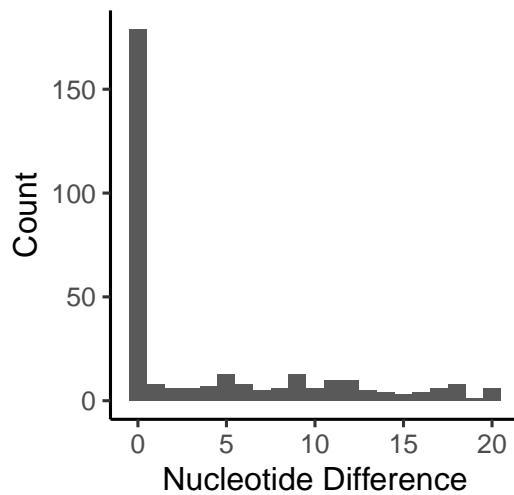
IGHV2-5*02

159 sequences assigned
81 (50.9%) exact matches, in which:
81 unique CDR3
6 unique J



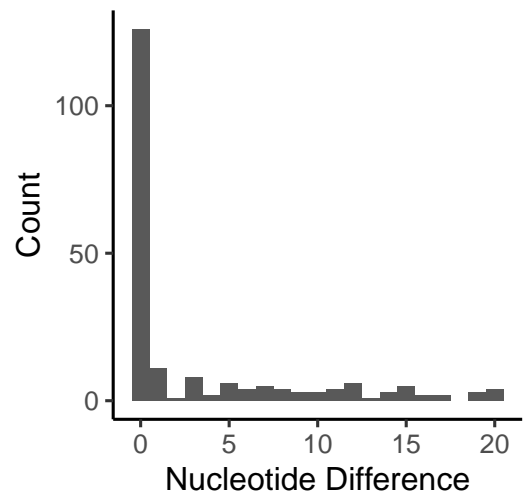
IGHV3-7*01

337 sequences assigned
179 (53.1%) exact matches, in which:
171 unique CDR3
6 unique J



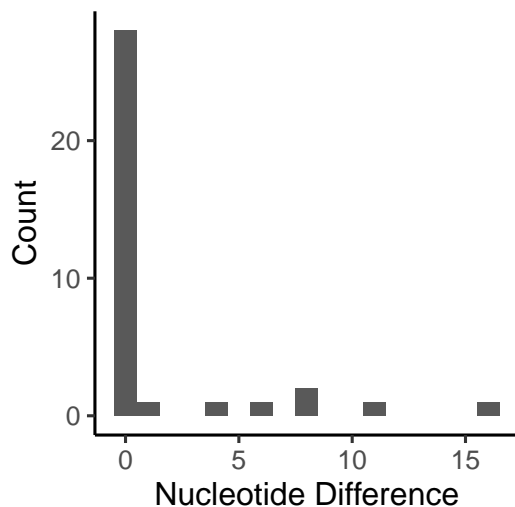
IGHV3-11*01

229 sequences assigned
126 (55%) exact matches, in which:
123 unique CDR3
6 unique J



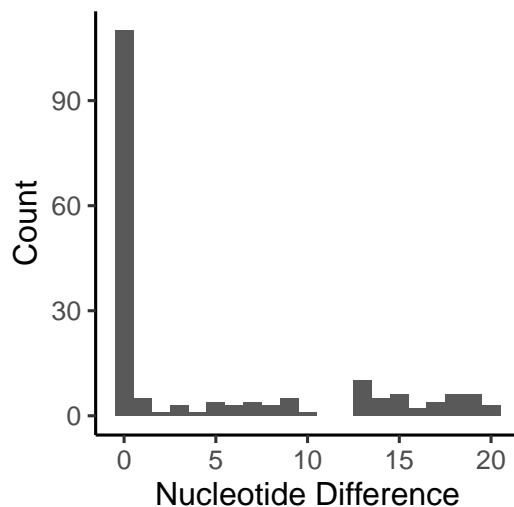
IGHV2-26*01

39 sequences assigned
28 (71.8%) exact matches, in which:
28 unique CDR3
5 unique J



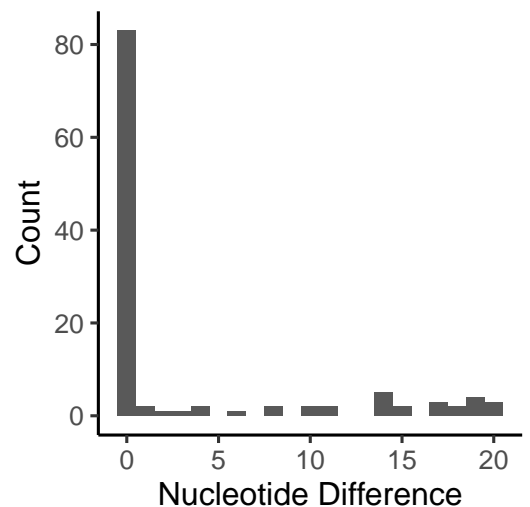
IGHV3-7*05

207 sequences assigned
110 (53.1%) exact matches, in which:
110 unique CDR3
6 unique J



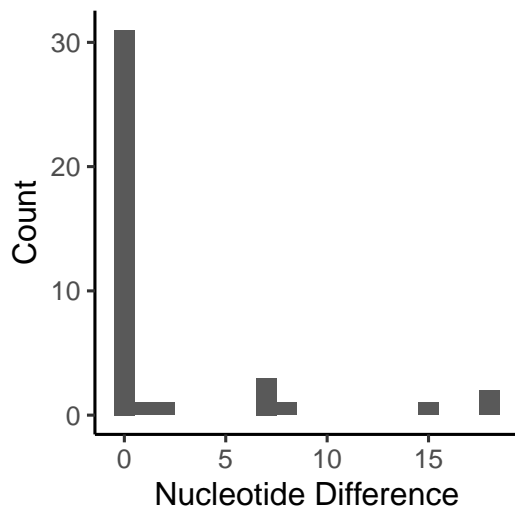
IGHV3-11*06

121 sequences assigned
83 (68.6%) exact matches, in which:
82 unique CDR3
4 unique J



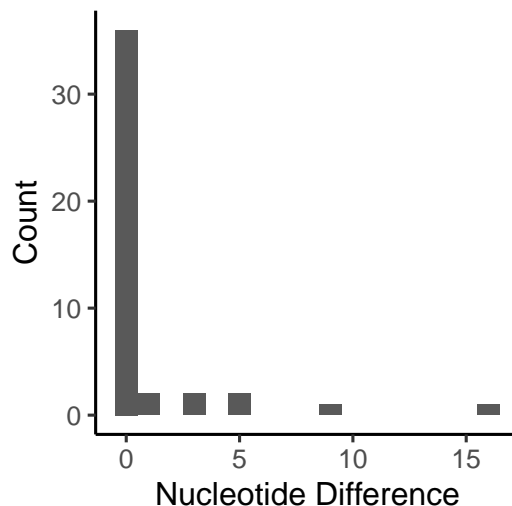
IGHV3-13*01

44 sequences assigned
31 (70.5%) exact matches, in which:
30 unique CDR3
4 unique J



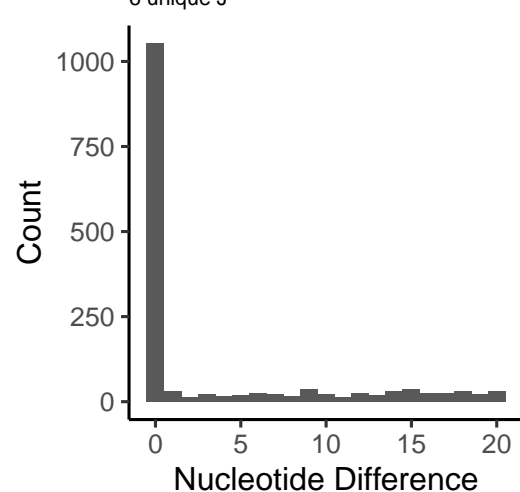
IGHV3-20*01_02

44 sequences assigned
36 (81.8%) exact matches, in which:
35 unique CDR3
5 unique J



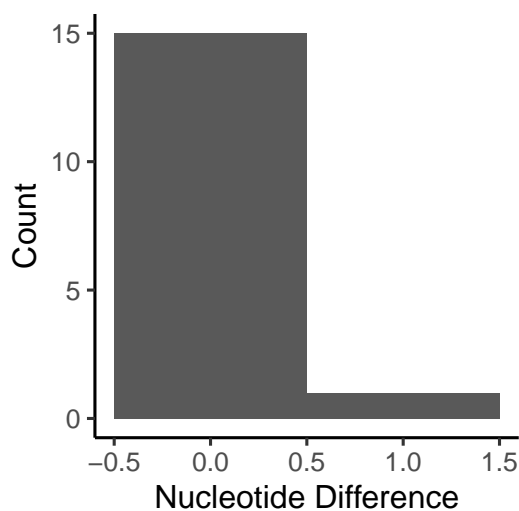
IGHV3-23*01_04

1710 sequences assigned
1053 (61.6%) exact matches, in which:
1009 unique CDR3
6 unique J



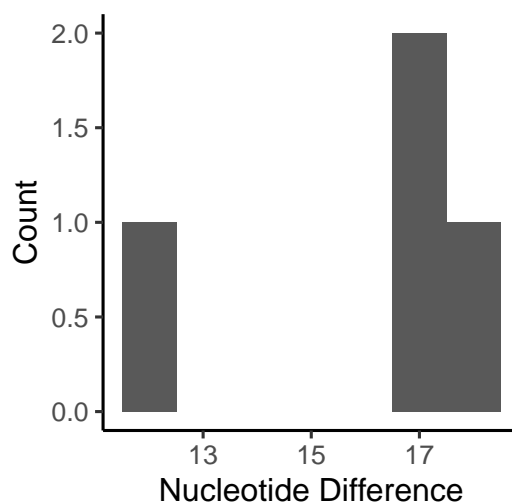
IGHV3-13*05

16 sequences assigned
15 (93.8%) exact matches, in which:
15 unique CDR3
5 unique J



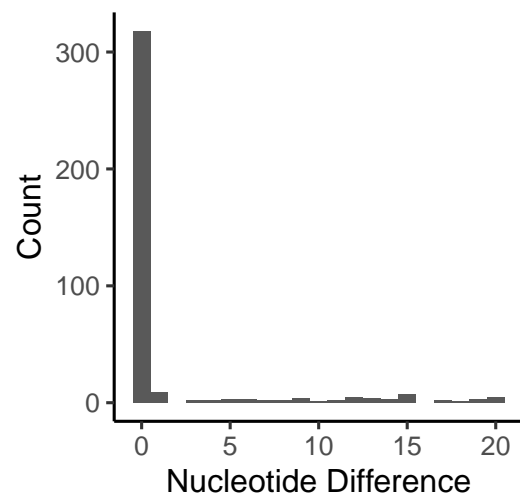
IGHV3-20*03_04

9 sequences assigned
No exact matches.



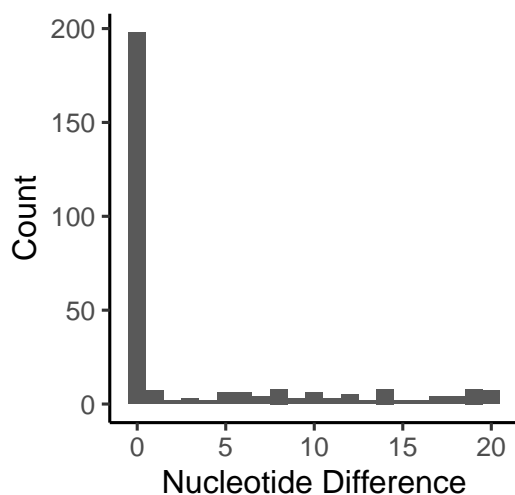
IGHV3-30-3*01

424 sequences assigned
318 (75%) exact matches, in which:
312 unique CDR3
6 unique J



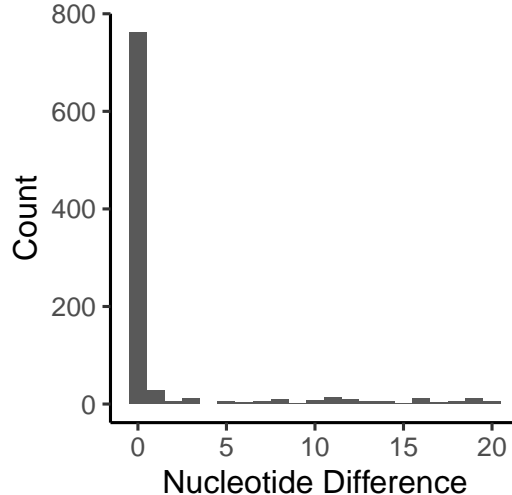
IGHV3-15*01_02

323 sequences assigned
198 (61.3%) exact matches, in which:
197 unique CDR3
6 unique J



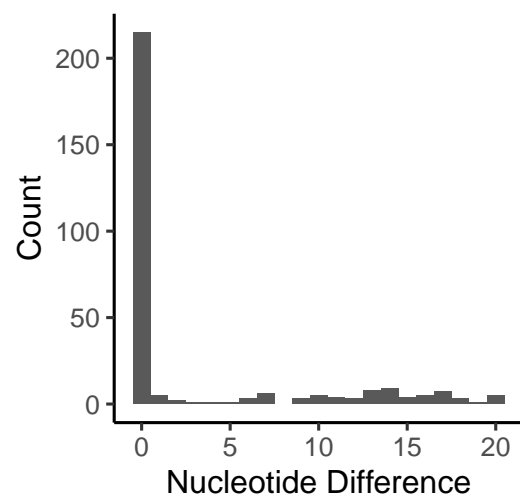
IGHV3-21*01_02

979 sequences assigned
762 (77.8%) exact matches, in which:
742 unique CDR3
6 unique J



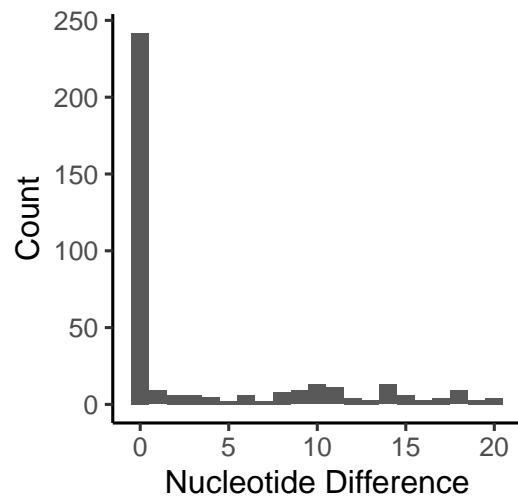
IGHV3-30*04_G160A

313 sequences assigned
215 (68.7%) exact matches, in which:
208 unique CDR3
5 unique J



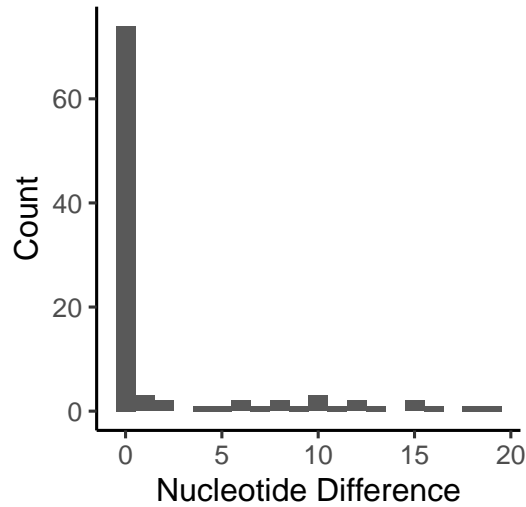
IGHV3–33*06

394 sequences assigned
242 (61.4%) exact matches, in which:
236 unique CDR3
6 unique J



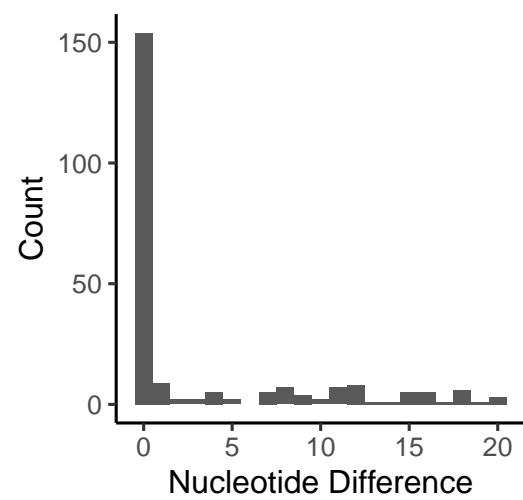
IGHV3–49*03_05

113 sequences assigned
74 (65.5%) exact matches, in which:
72 unique CDR3
6 unique J



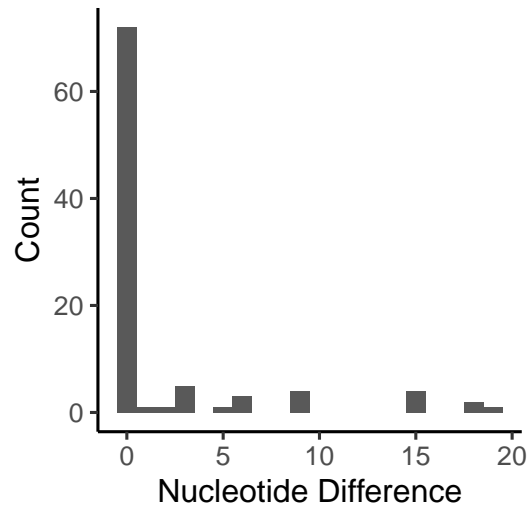
IGHV3–66*01

257 sequences assigned
154 (59.9%) exact matches, in which:
149 unique CDR3
6 unique J



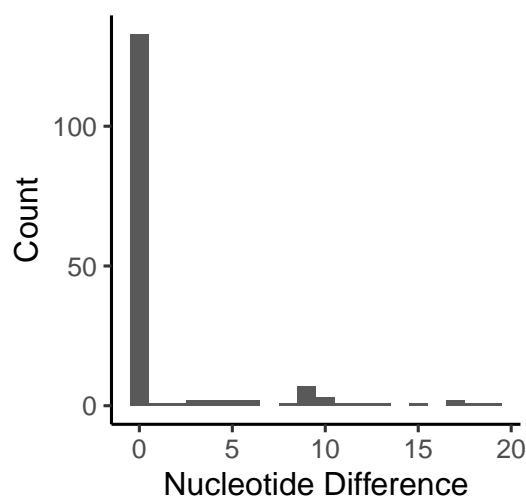
IGHV3–43*01

107 sequences assigned
72 (67.3%) exact matches, in which:
71 unique CDR3
5 unique J



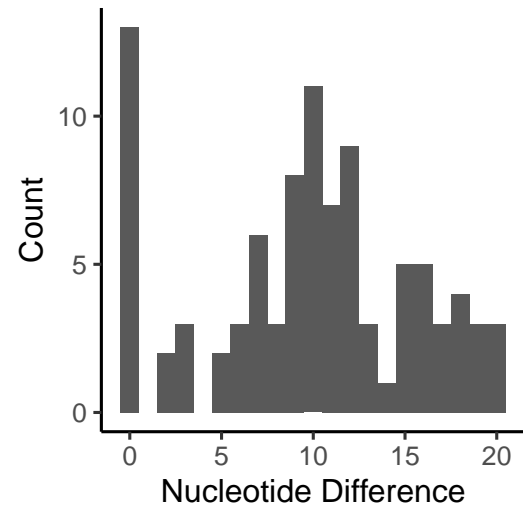
IGHV3–53*04

174 sequences assigned
133 (76.4%) exact matches, in which:
128 unique CDR3
5 unique J



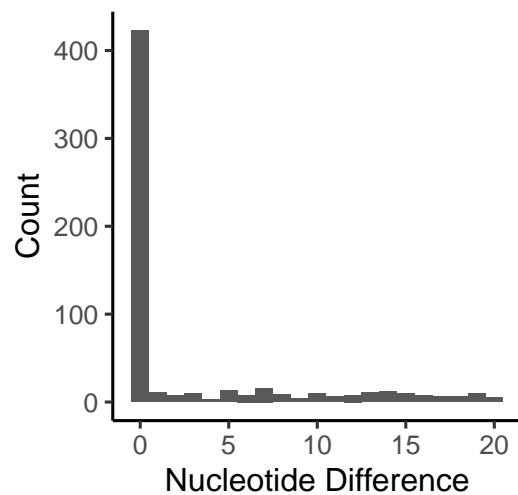
IGHV3–72*01

108 sequences assigned
13 (12%) exact matches, in which:
13 unique CDR3
2 unique J



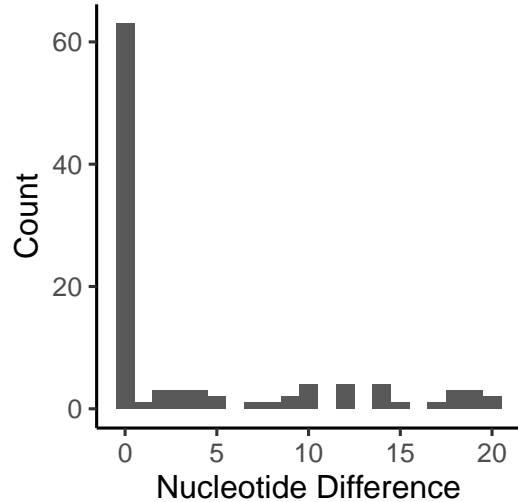
IGHV3–48*04

647 sequences assigned
423 (65.4%) exact matches, in which:
407 unique CDR3
6 unique J



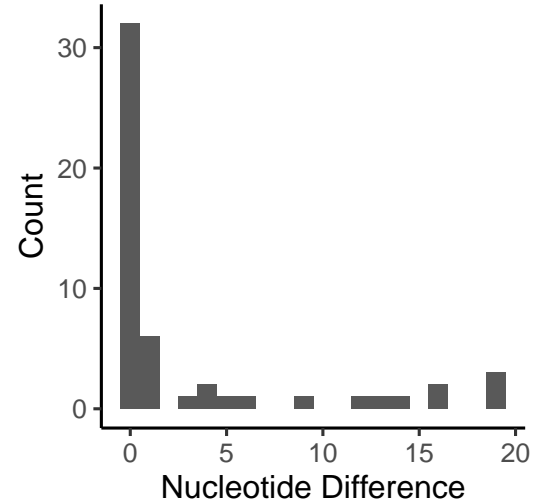
IGHV3–64*01

110 sequences assigned
63 (57.3%) exact matches, in which:
61 unique CDR3
5 unique J



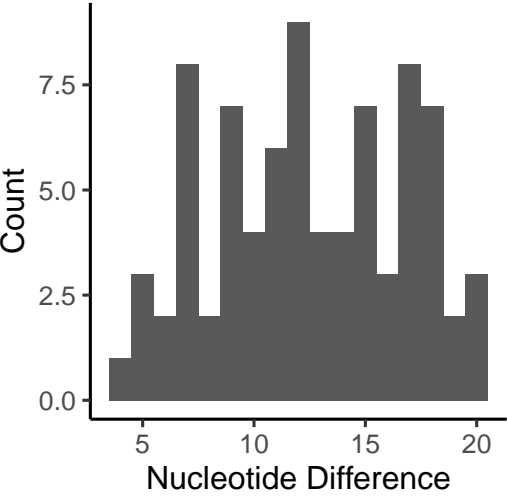
IGHV3–73*01_02

54 sequences assigned
32 (59.3%) exact matches, in which:
31 unique CDR3
5 unique J



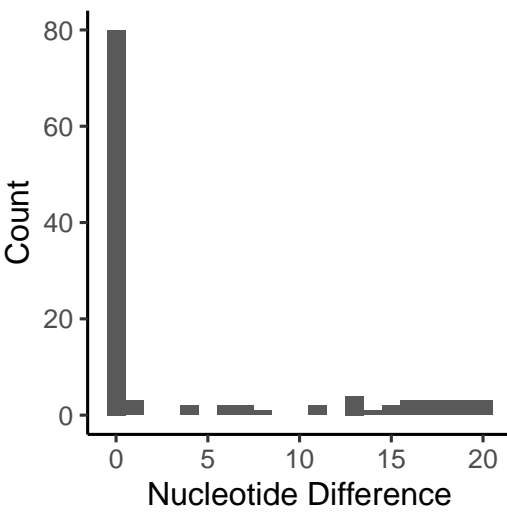
IGHV3-74*03

102 sequences assigned
No exact matches.



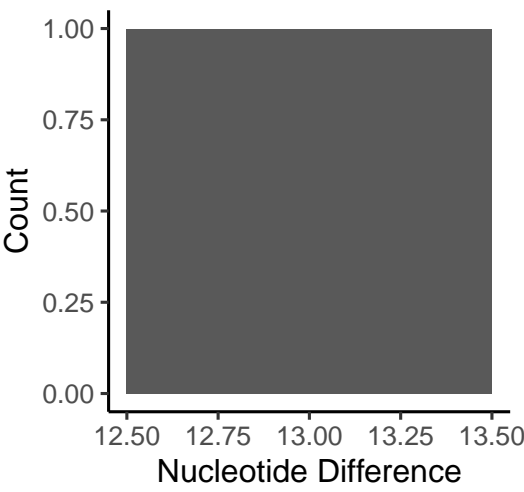
IGHV3-64D*06

138 sequences assigned
80 (58%) exact matches, in which:
74 unique CDR3
5 unique J



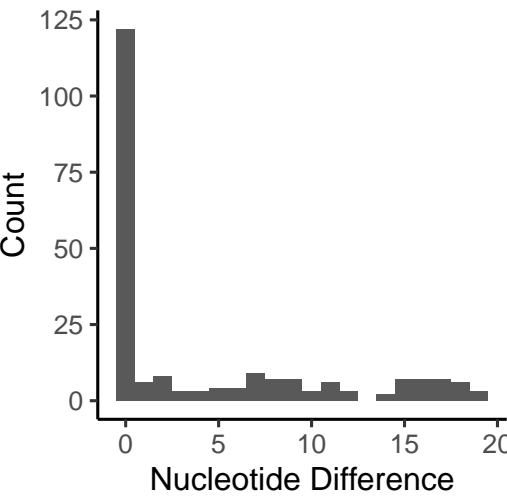
IGHV4-28*02_05

1 sequences assigned
No exact matches.



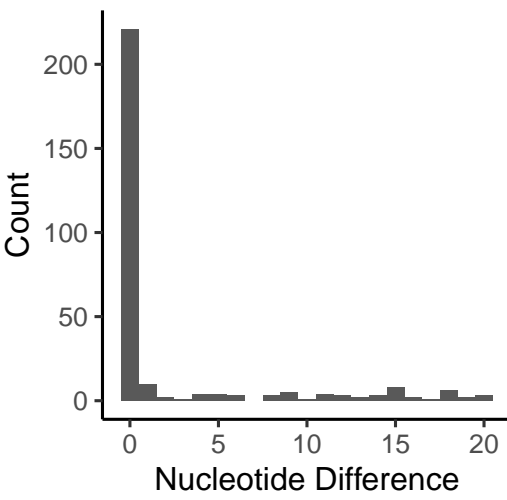
IGHV3-74*01_02

221 sequences assigned
122 (55.2%) exact matches, in which:
114 unique CDR3
6 unique J



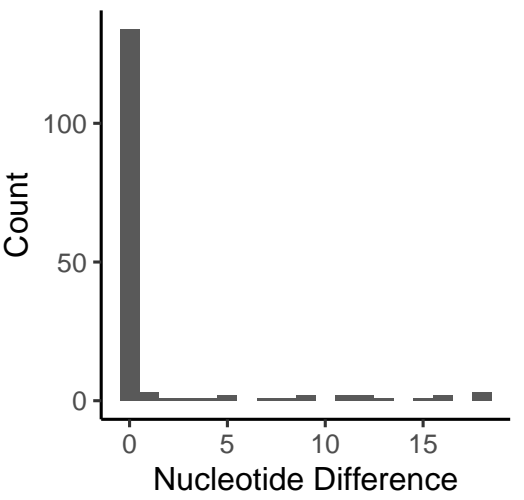
IGHV4-4*02_03

313 sequences assigned
221 (70.6%) exact matches, in which:
219 unique CDR3
6 unique J



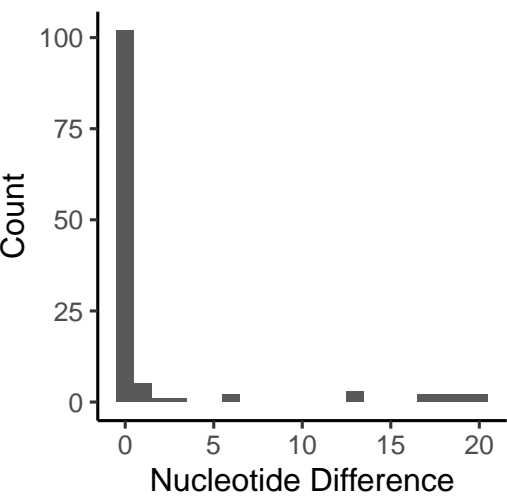
IGHV4-30-4*01

173 sequences assigned
134 (77.5%) exact matches, in which:
131 unique CDR3
5 unique J



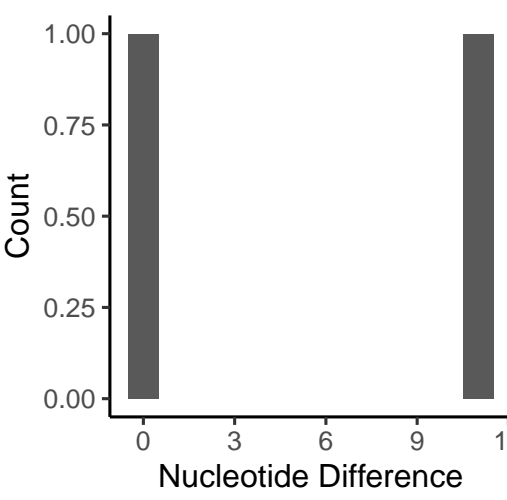
IGHV3-43D*03

134 sequences assigned
102 (76.1%) exact matches, in which:
99 unique CDR3
6 unique J



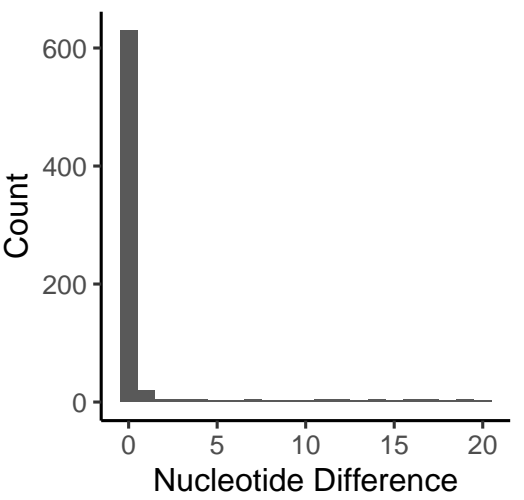
IGHV4-28*01_07

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



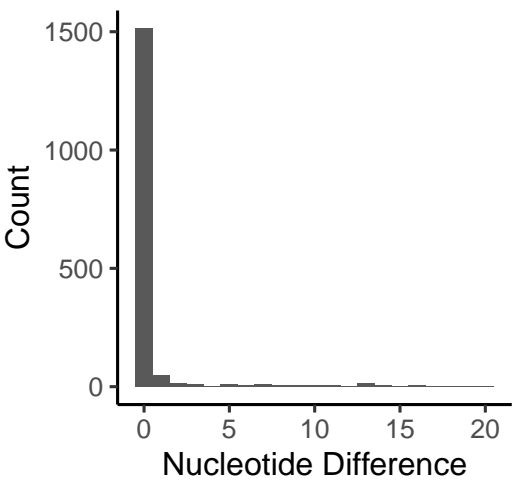
IGHV4-31*02

790 sequences assigned
630 (79.7%) exact matches, in which:
622 unique CDR3
6 unique J



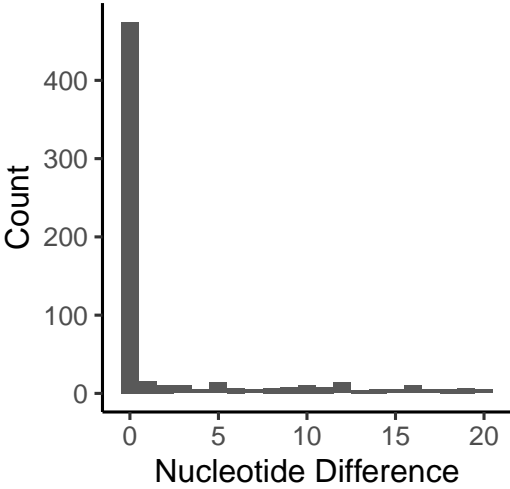
IGHV4-34*01_02

1734 sequences assigned
1514 (87.3%) exact matches, in which:
1463 unique CDR3
6 unique J



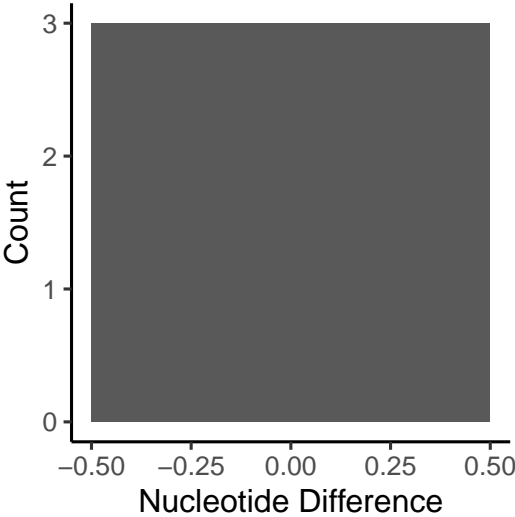
IGHV4-59*08

727 sequences assigned
475 (65.3%) exact matches, in which:
461 unique CDR3
6 unique J



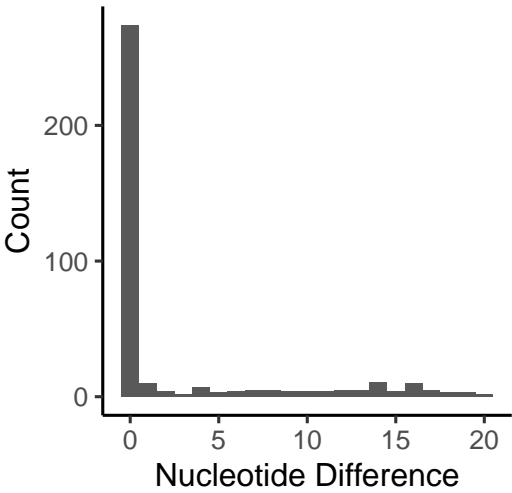
IGHV5-51*01_03

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



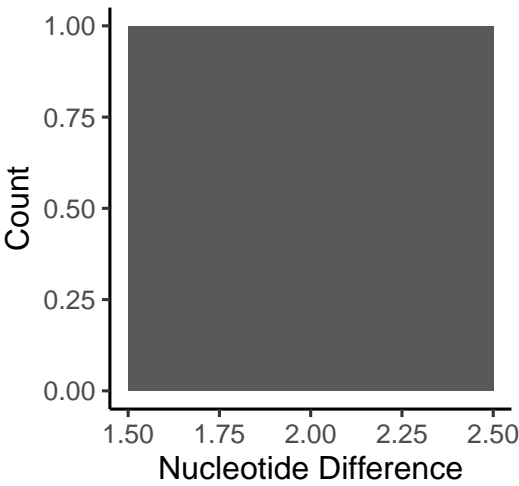
IGHV4-38-2*02

397 sequences assigned
274 (69%) exact matches, in which:
269 unique CDR3
6 unique J



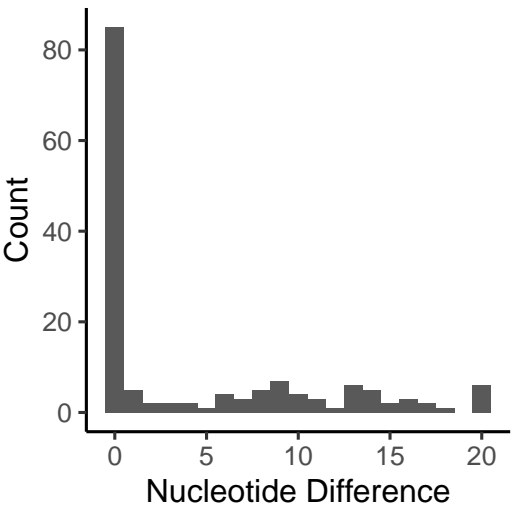
IGHV4-61*01

1 sequences assigned
No exact matches.



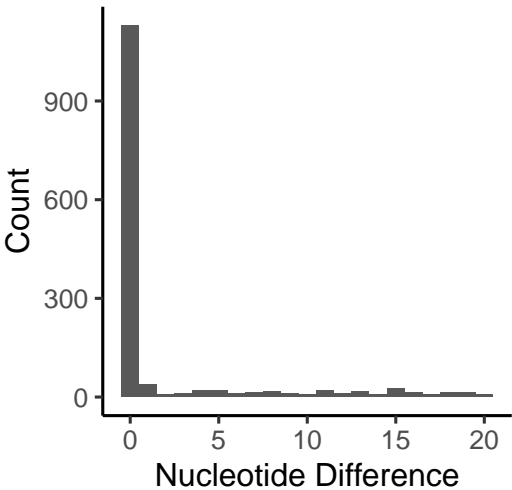
IGHV6-1*01_02

171 sequences assigned
85 (49.7%) exact matches, in which:
85 unique CDR3
5 unique J



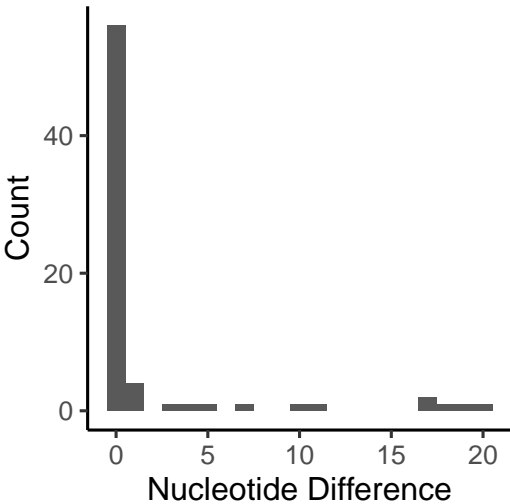
IGHV4-39*07

1554 sequences assigned
1130 (72.7%) exact matches, in which:
1080 unique CDR3
6 unique J



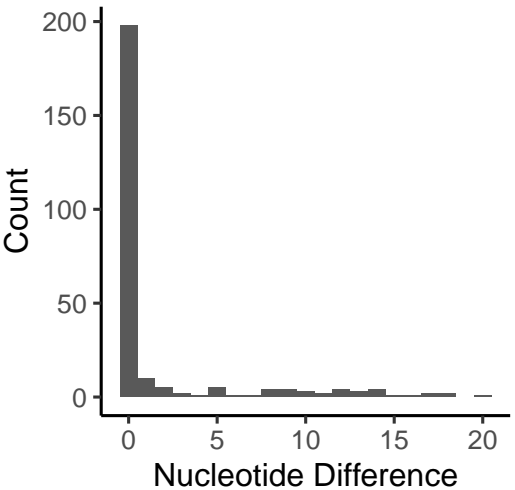
IGHV5-10-1*01_03

77 sequences assigned
56 (72.7%) exact matches, in which:
56 unique CDR3
5 unique J

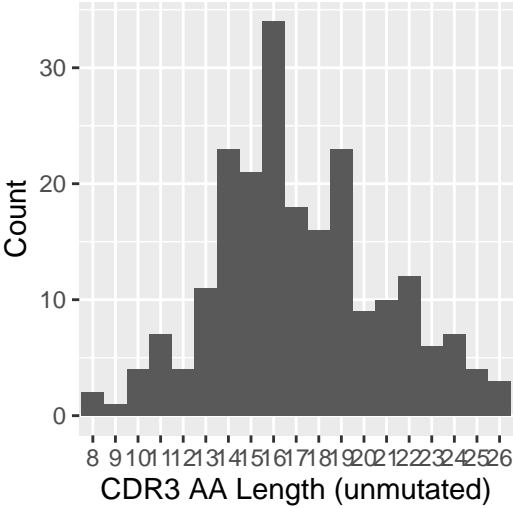


IGHV7-4-1*02

270 sequences assigned
198 (73.3%) exact matches, in which:
198 unique CDR3
5 unique J



IGHV3-30*04_G160A





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