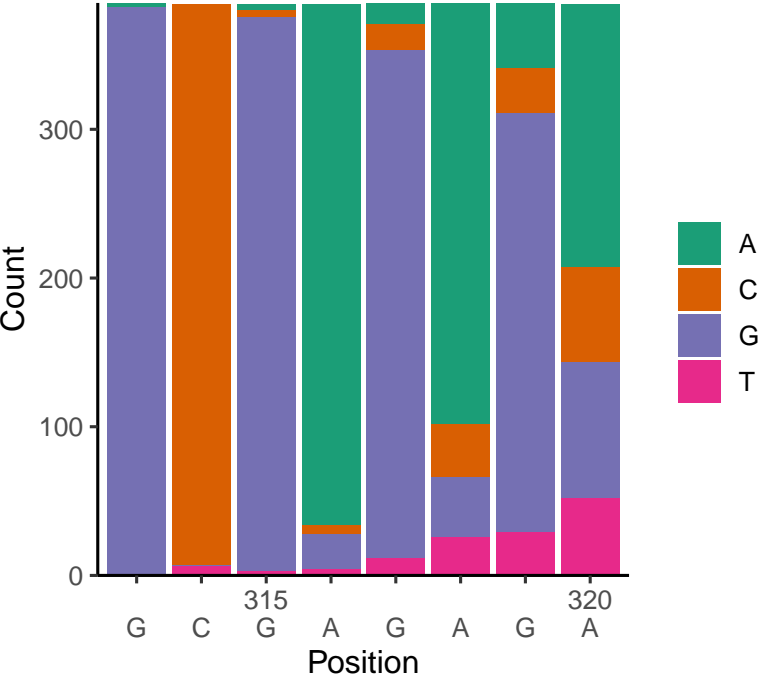
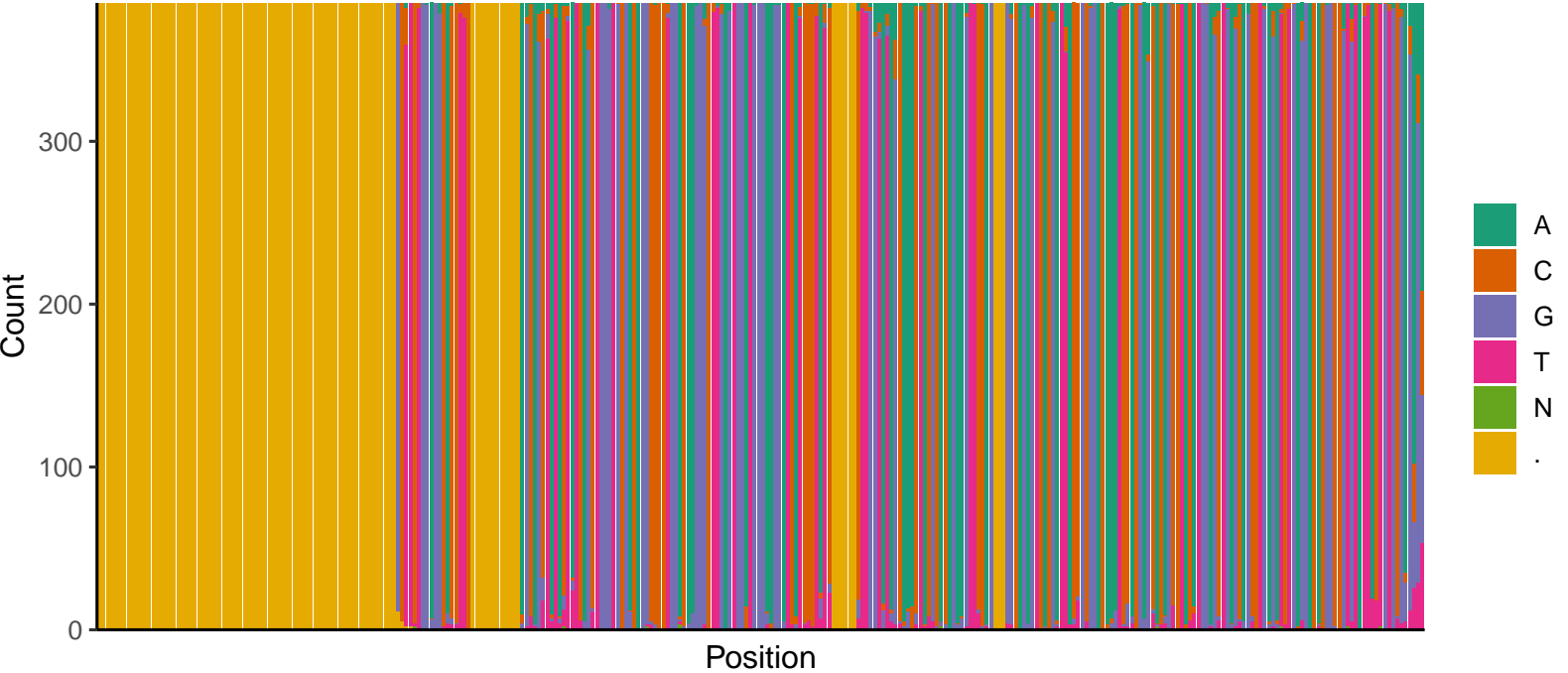


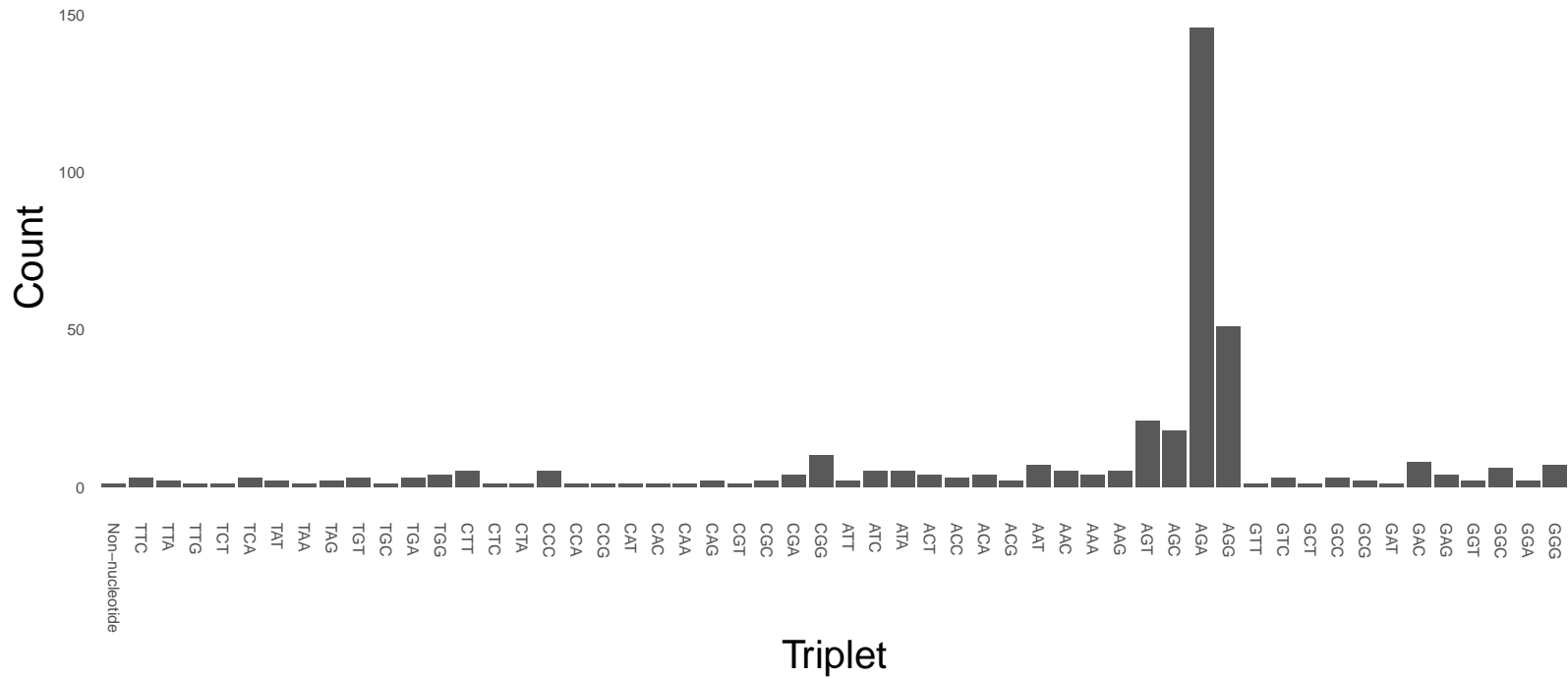
Gene IGHV1-69*04_09_G112A



Gene IGHV1-69*04_09_G112A

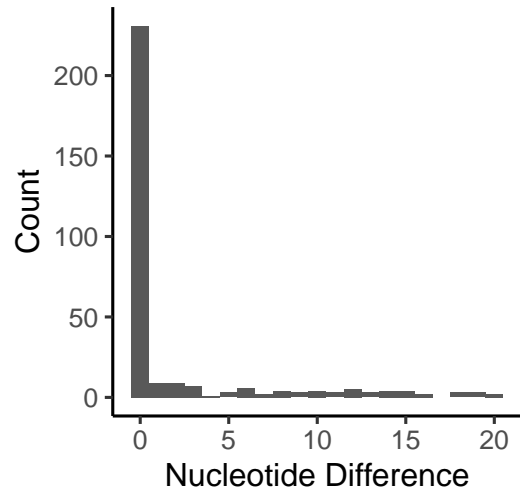


IGHV1-69*04_09_G112A- Final 3 nucleotides as a triplet



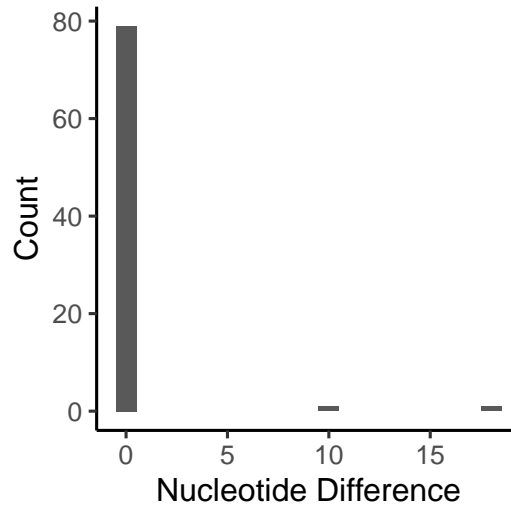
IGHV1–2*02

333 sequences assigned
231 (69.4%) exact matches, in which:
231 unique CDR3
6 unique J



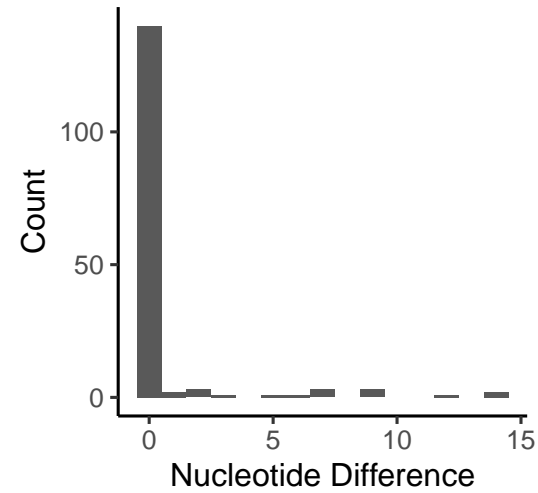
IGHV1–24*01

87 sequences assigned
79 (90.8%) exact matches, in which:
78 unique CDR3
5 unique J



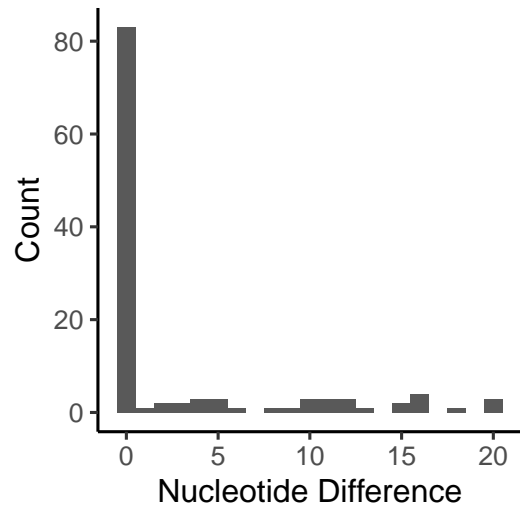
IGHV1–46*03

161 sequences assigned
140 (87%) exact matches, in which:
140 unique CDR3
7 unique J



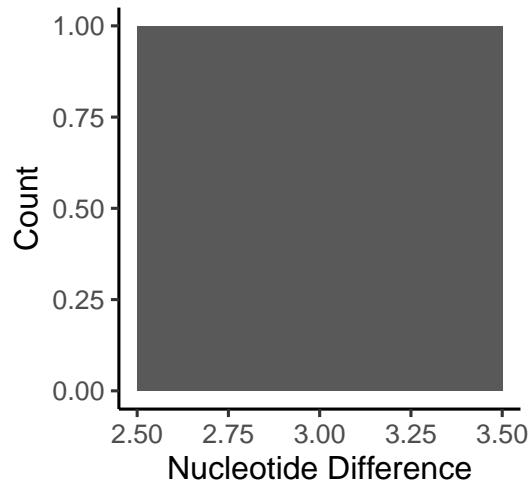
IGHV1–3*01_05

128 sequences assigned
83 (64.8%) exact matches, in which:
83 unique CDR3
6 unique J



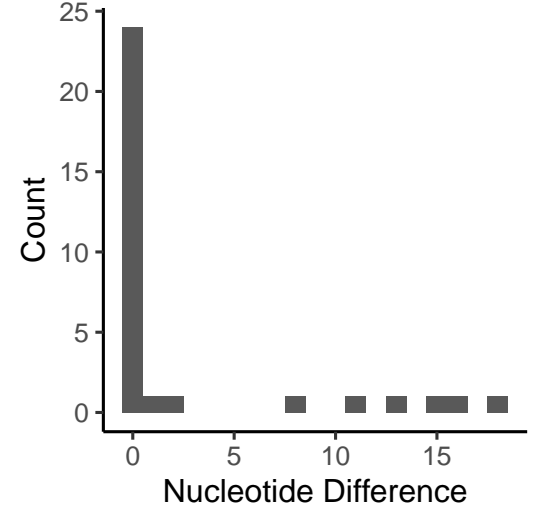
IGHV1–38–4*01

1 sequences assigned
No exact matches.



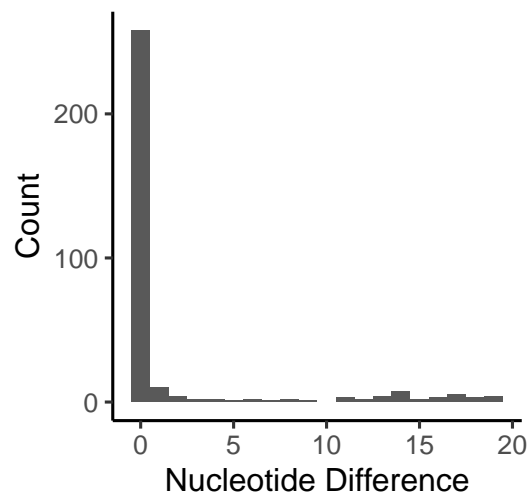
IGHV1–58*02

32 sequences assigned
24 (75%) exact matches, in which:
24 unique CDR3
6 unique J



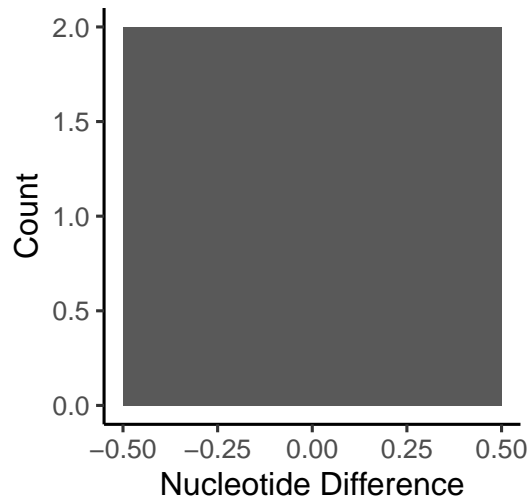
IGHV1–18*04

331 sequences assigned
258 (77.9%) exact matches, in which:
256 unique CDR3
6 unique J



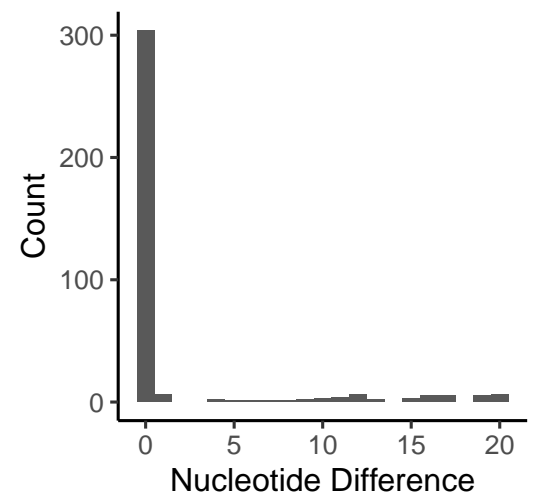
IGHV1–45*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



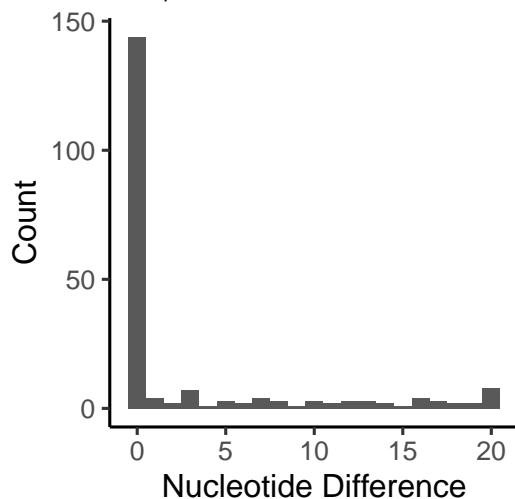
IGHV1–69*04_09_G112A

385 sequences assigned
304 (79%) exact matches, in which:
301 unique CDR3
7 unique J



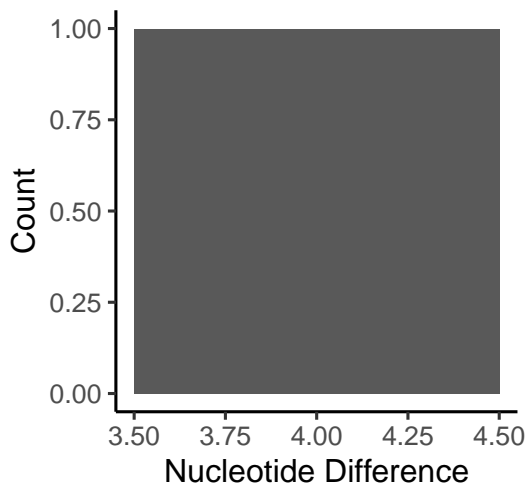
IGHV2-5*02

234 sequences assigned
144 (61.5%) exact matches, in which:
141 unique CDR3
7 unique J



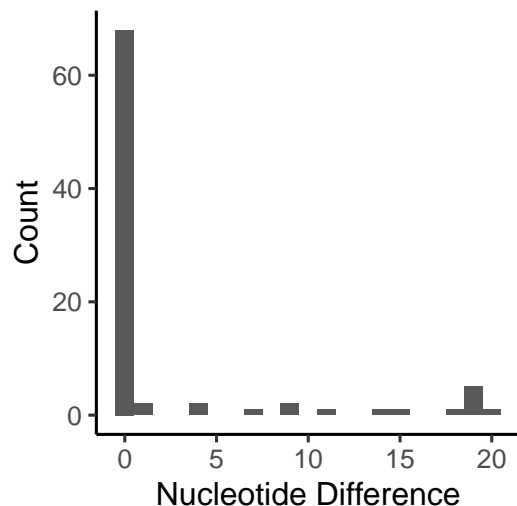
IGHV2-70D*04

1 sequences assigned
No exact matches.



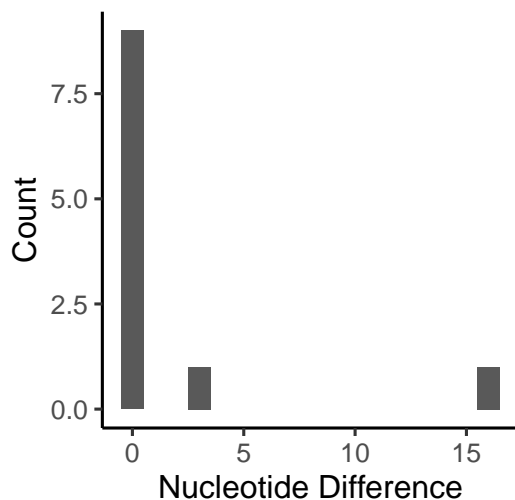
IGHV3-11*06

95 sequences assigned
68 (71.6%) exact matches, in which:
66 unique CDR3
6 unique J



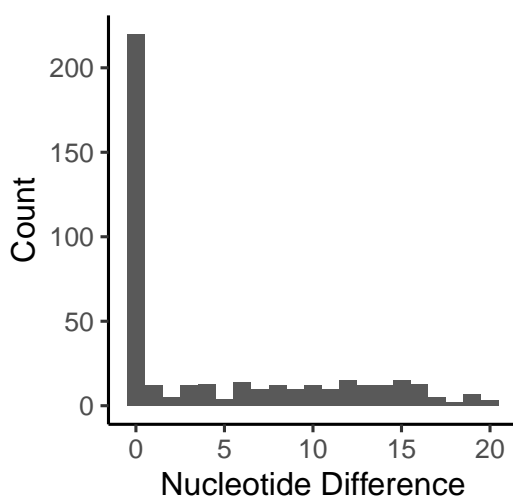
IGHV2-26*01

11 sequences assigned
9 (81.8%) exact matches, in which:
9 unique CDR3
3 unique J



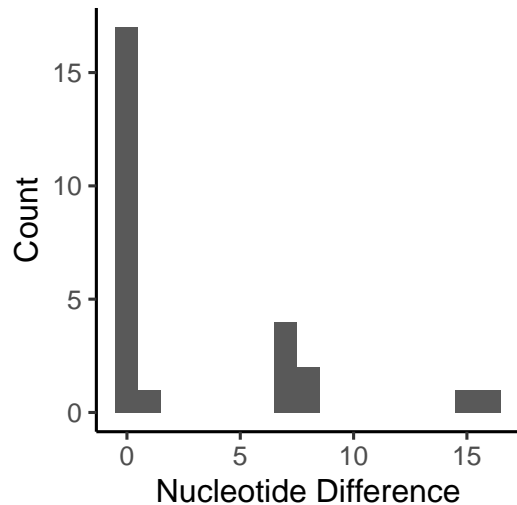
IGHV3-7*03

428 sequences assigned
220 (51.4%) exact matches, in which:
214 unique CDR3
6 unique J



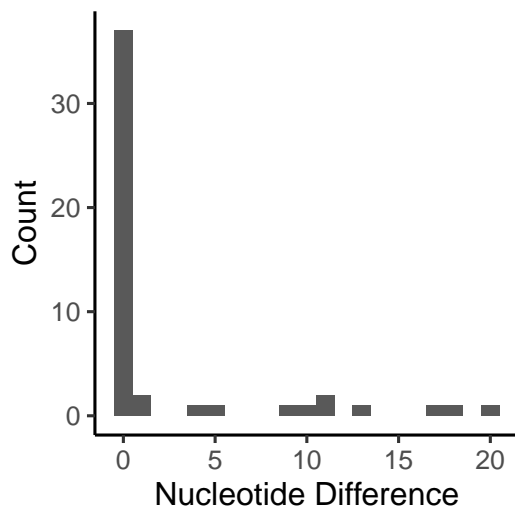
IGHV3-13*05

26 sequences assigned
17 (65.4%) exact matches, in which:
16 unique CDR3
5 unique J



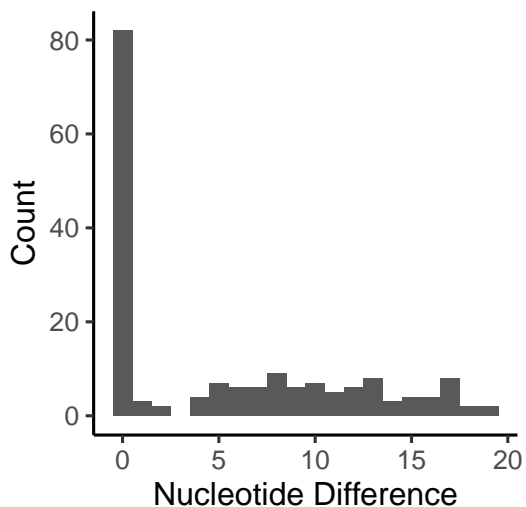
IGHV2-70*11_15

49 sequences assigned
37 (75.5%) exact matches, in which:
37 unique CDR3
4 unique J



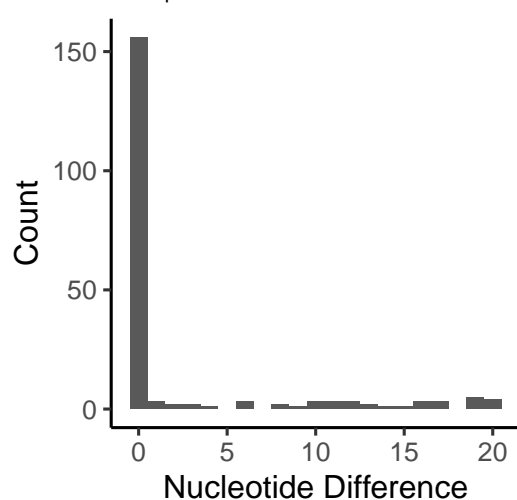
IGHV3-7*04

179 sequences assigned
82 (45.8%) exact matches, in which:
82 unique CDR3
6 unique J



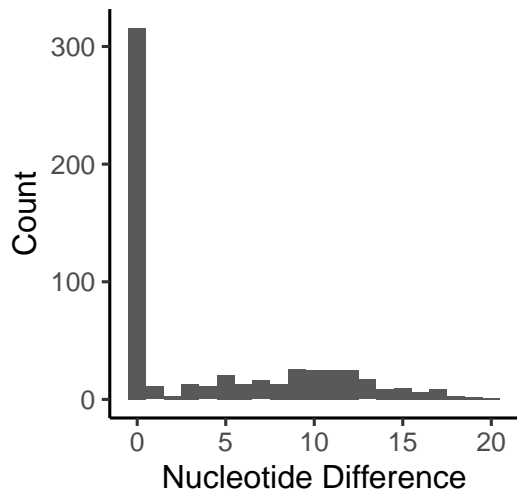
IGHV3-15*01_02

232 sequences assigned
156 (67.2%) exact matches, in which:
152 unique CDR3
6 unique J



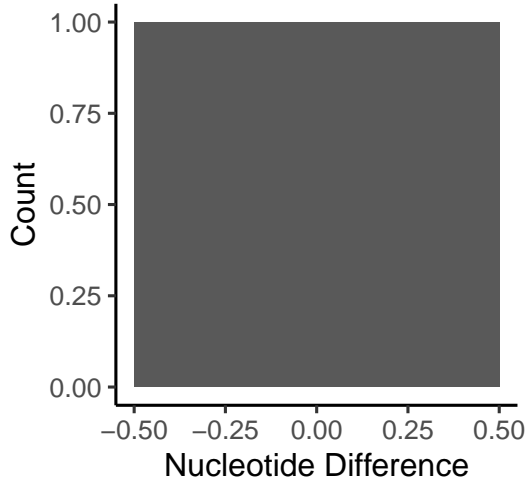
IGHV3-21*01_02

601 sequences assigned
316 (52.6%) exact matches, in which:
301 unique CDR3
7 unique J



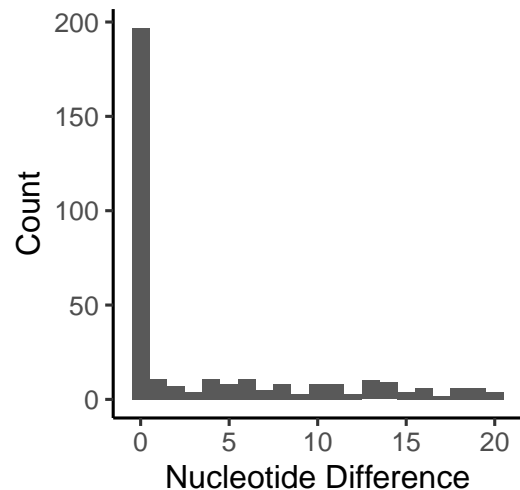
IGHV3-38-3*01

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



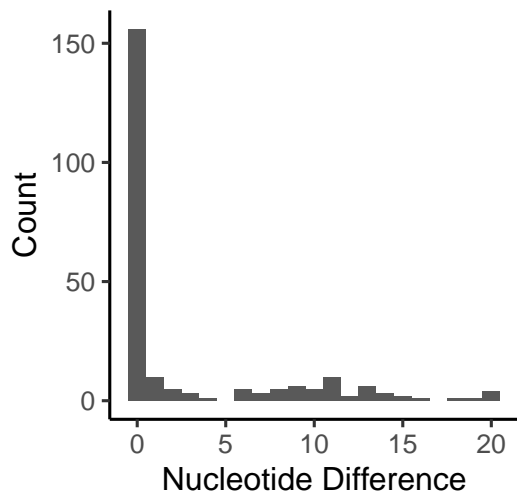
IGHV3-48*02

355 sequences assigned
197 (55.5%) exact matches, in which:
186 unique CDR3
6 unique J



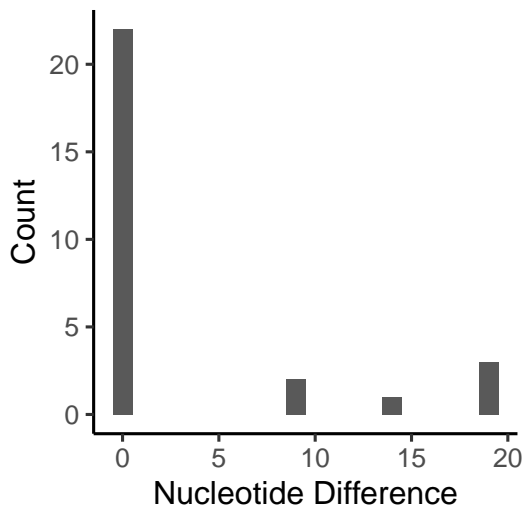
IGHV3-33*01

245 sequences assigned
156 (63.7%) exact matches, in which:
146 unique CDR3
7 unique J



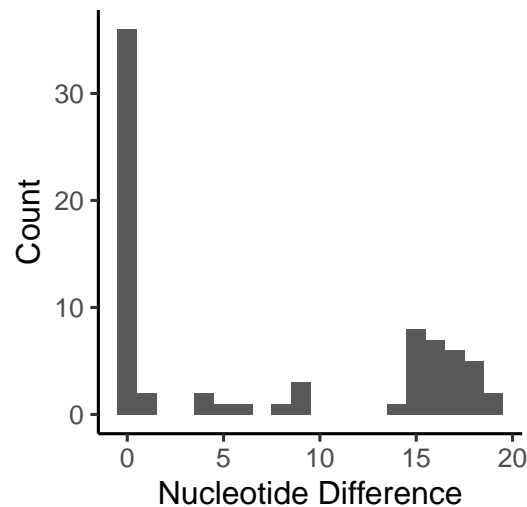
IGHV3-43*01

28 sequences assigned
22 (78.6%) exact matches, in which:
22 unique CDR3
4 unique J



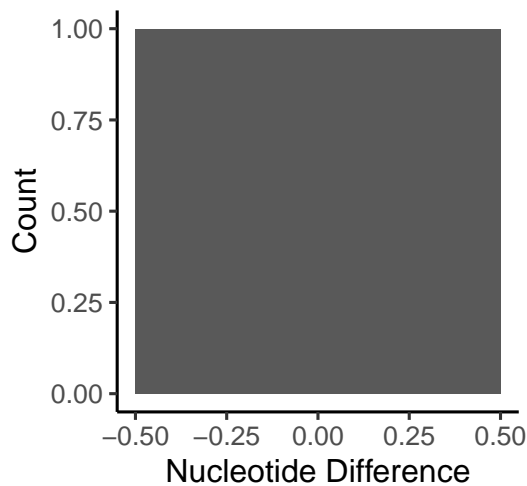
IGHV3-49*04

83 sequences assigned
36 (43.4%) exact matches, in which:
36 unique CDR3
4 unique J



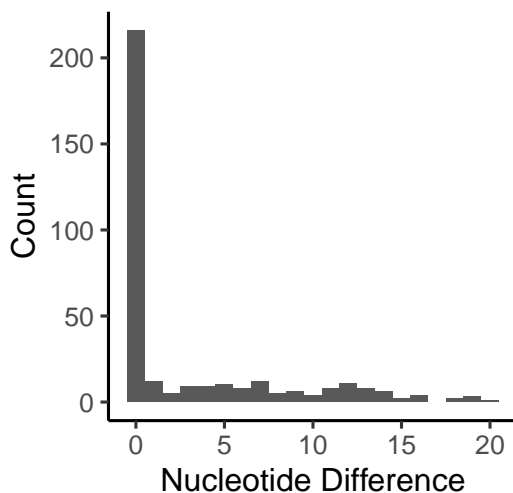
IGHV3-35*01

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



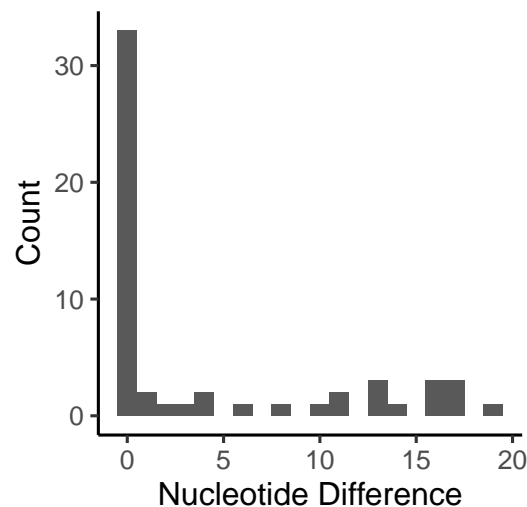
IGHV3-48*01

355 sequences assigned
216 (60.8%) exact matches, in which:
204 unique CDR3
7 unique J



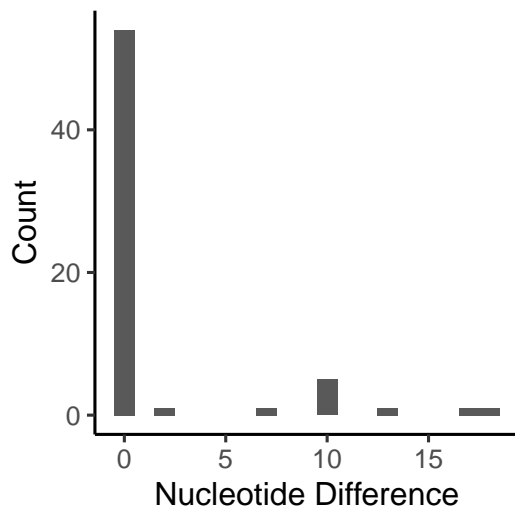
IGHV3-49*03_05

58 sequences assigned
33 (56.9%) exact matches, in which:
33 unique CDR3
5 unique J



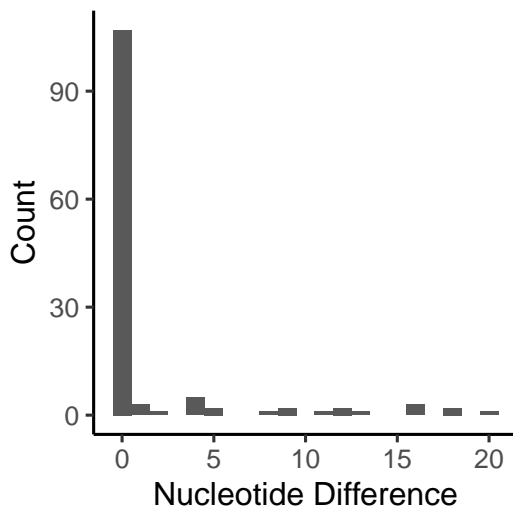
IGHV3-53*04

64 sequences assigned
54 (84.4%) exact matches, in which:
52 unique CDR3
6 unique J



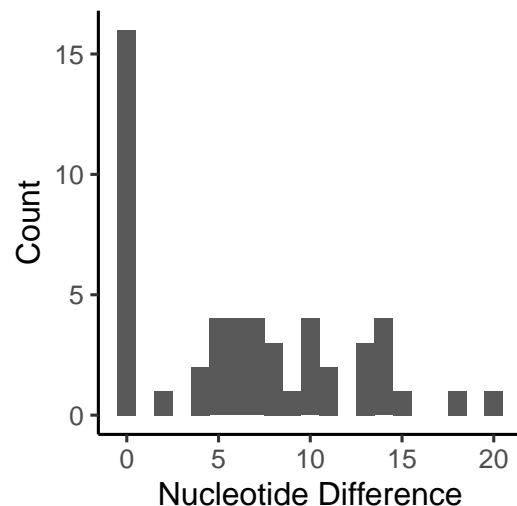
IGHV3-66*01

135 sequences assigned
107 (79.3%) exact matches, in which:
101 unique CDR3
5 unique J



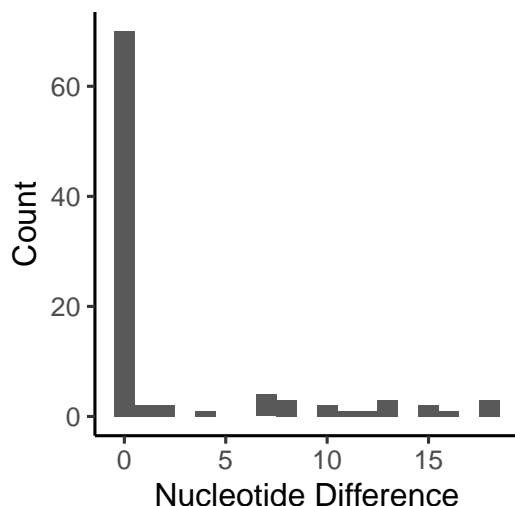
IGHV3-72*01

55 sequences assigned
16 (29.1%) exact matches, in which:
16 unique CDR3
6 unique J



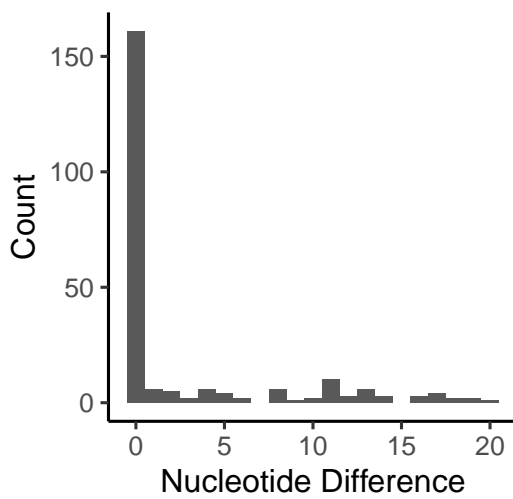
IGHV3-53*01_02

107 sequences assigned
70 (65.4%) exact matches, in which:
70 unique CDR3
5 unique J



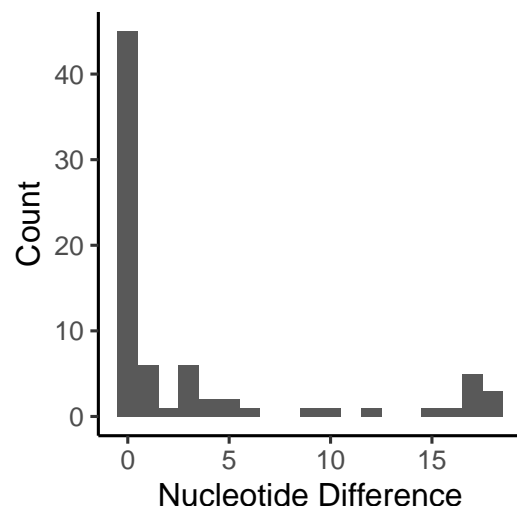
IGHV3-66*02

247 sequences assigned
161 (65.2%) exact matches, in which:
151 unique CDR3
6 unique J



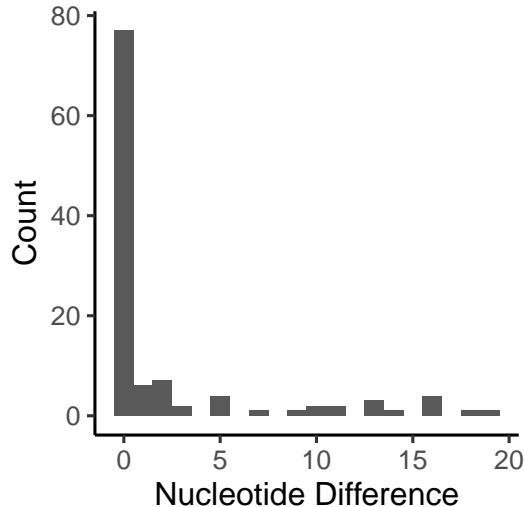
IGHV3-73*01_02

81 sequences assigned
45 (55.6%) exact matches, in which:
39 unique CDR3
7 unique J



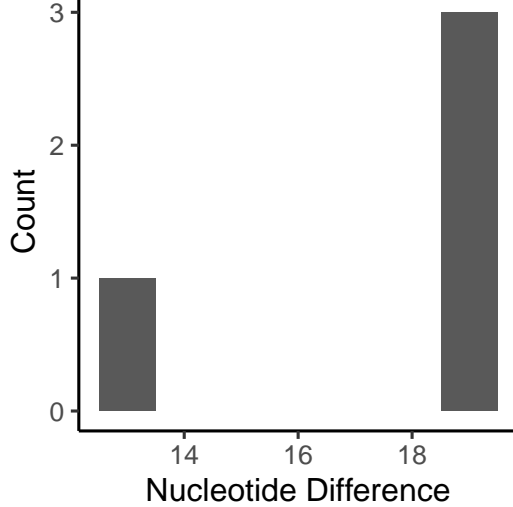
IGHV3-64*01

118 sequences assigned
77 (65.3%) exact matches, in which:
69 unique CDR3
5 unique J



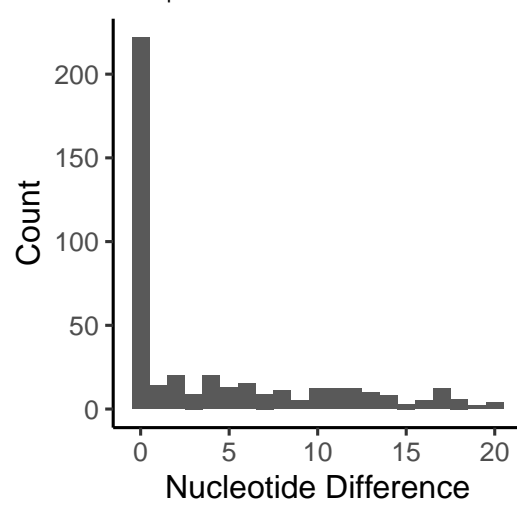
IGHV3-69-1*01

6 sequences assigned
No exact matches.



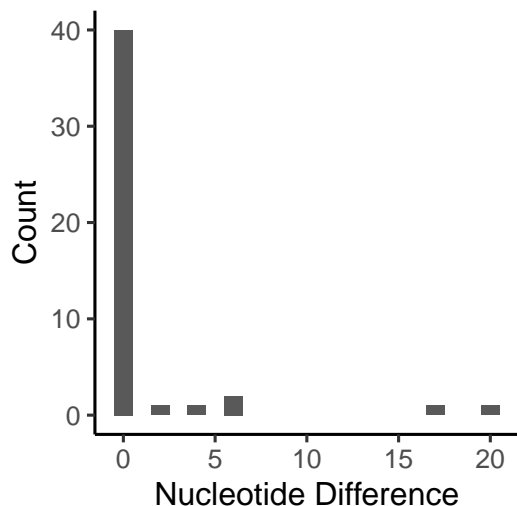
IGHV3-74*01_02

462 sequences assigned
222 (48.1%) exact matches, in which:
205 unique CDR3
7 unique J



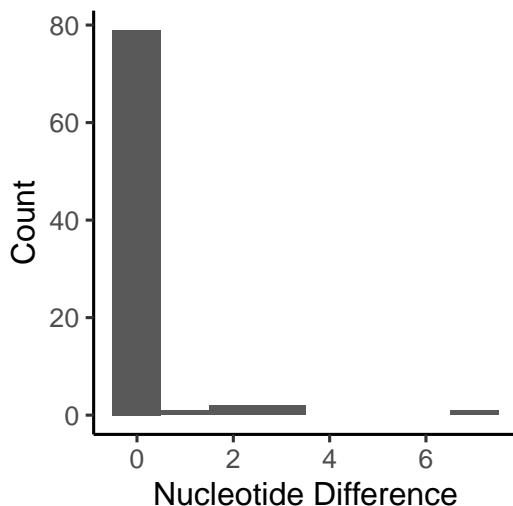
IGHV3-43D*03

47 sequences assigned
40 (85.1%) exact matches, in which:
39 unique CDR3
5 unique J



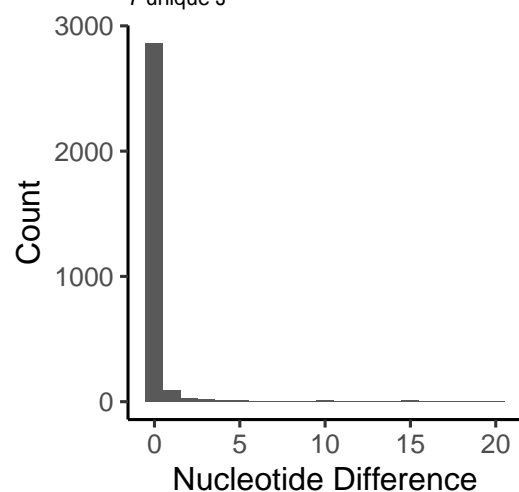
IGHV4-30-2*01

85 sequences assigned
79 (92.9%) exact matches, in which:
76 unique CDR3
6 unique J



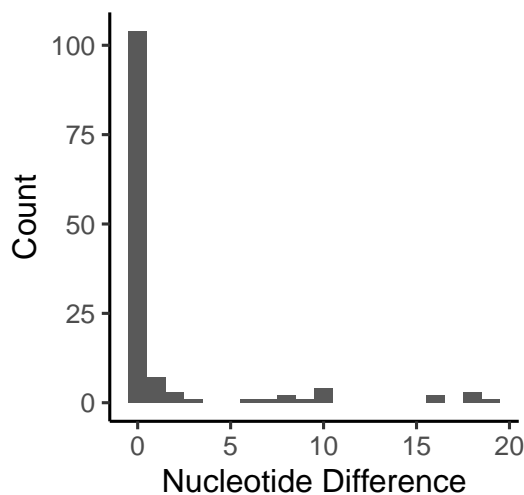
IGHV4-34*01_02

3136 sequences assigned
2860 (91.2%) exact matches, in which:
2742 unique CDR3
7 unique J



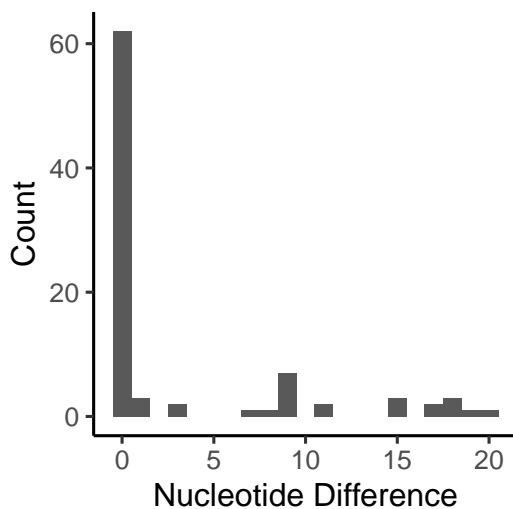
IGHV3-64D*06

142 sequences assigned
104 (73.2%) exact matches, in which:
102 unique CDR3
6 unique J



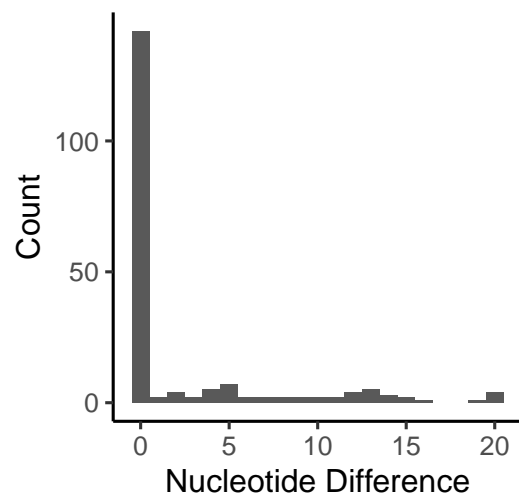
IGHV4-30-4*07

96 sequences assigned
62 (64.6%) exact matches, in which:
62 unique CDR3
5 unique J



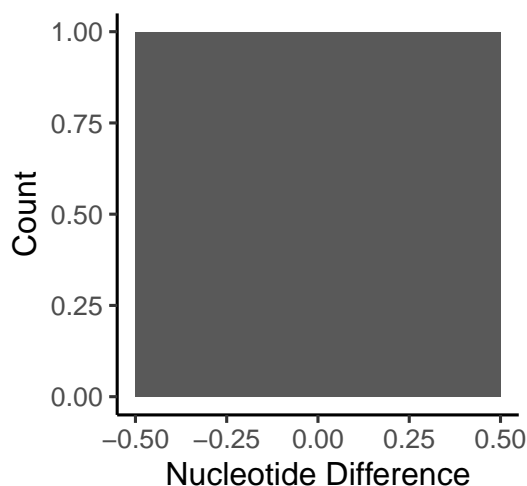
IGHV4-38-2*02

212 sequences assigned
142 (67%) exact matches, in which:
138 unique CDR3
6 unique J



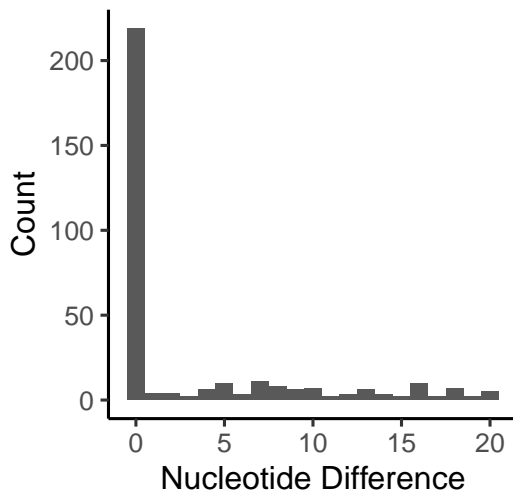
IGHV4-28*01_07

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



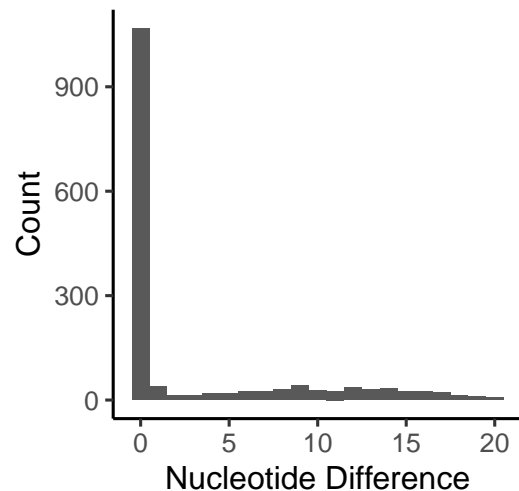
IGHV4-31*03_04

350 sequences assigned
219 (62.6%) exact matches, in which:
211 unique CDR3
5 unique J



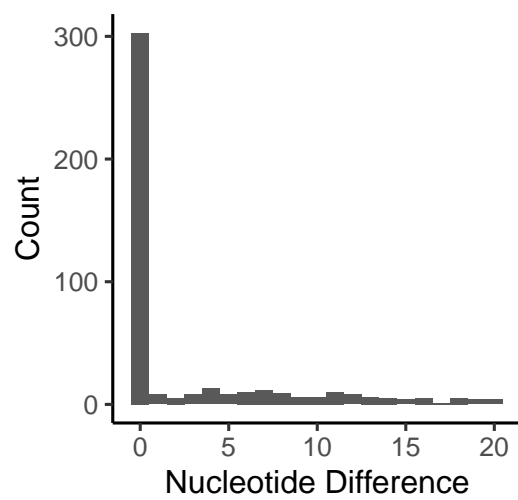
IGHV4-39*01_05

1622 sequences assigned
1068 (65.8%) exact matches, in which:
1024 unique CDR3
7 unique J



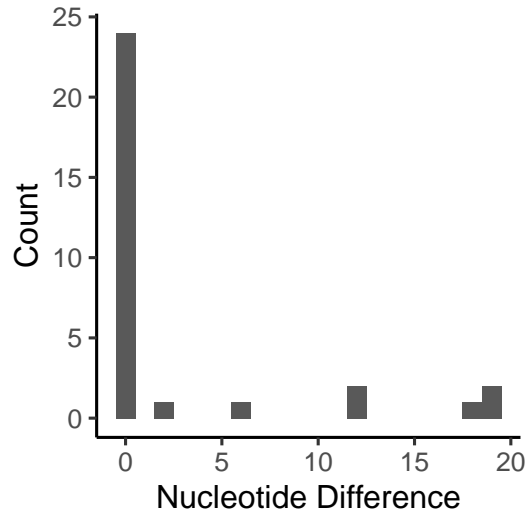
IGHV4-59*08

456 sequences assigned
303 (66.4%) exact matches, in which:
298 unique CDR3
6 unique J



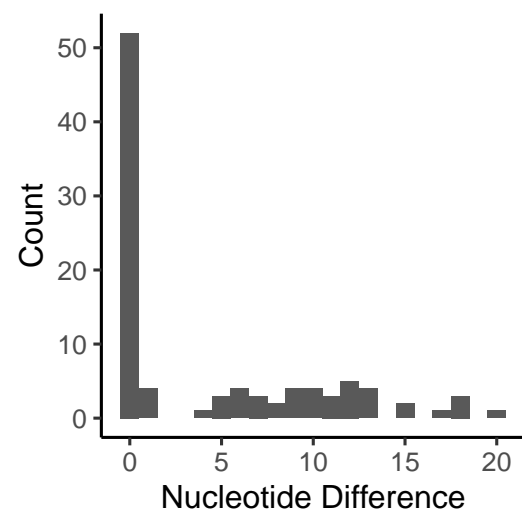
IGHV5-10-1*01_03

34 sequences assigned
24 (70.6%) exact matches, in which:
24 unique CDR3
4 unique J



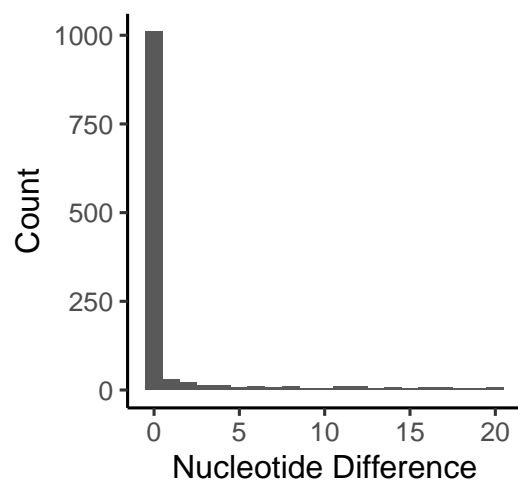
IGHV7-4-1*02

108 sequences assigned
52 (48.1%) exact matches, in which:
52 unique CDR3
5 unique J



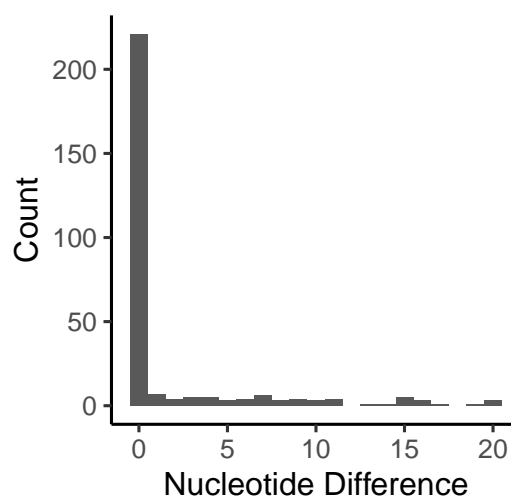
IGHV4-59*01_07

1260 sequences assigned
1010 (80.2%) exact matches, in which:
973 unique CDR3
7 unique J



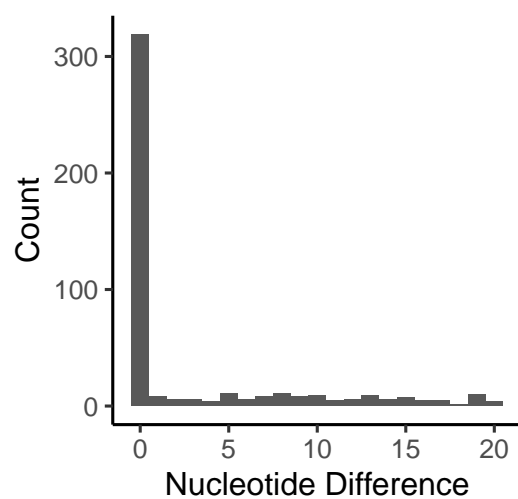
IGHV5-51*01_03

292 sequences assigned
221 (75.7%) exact matches, in which:
221 unique CDR3
7 unique J



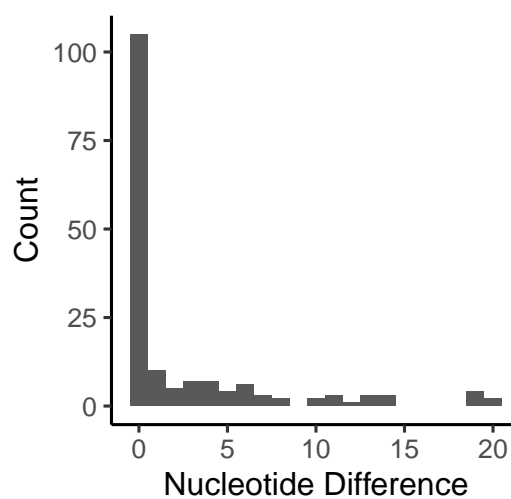
IGHV4-61*02

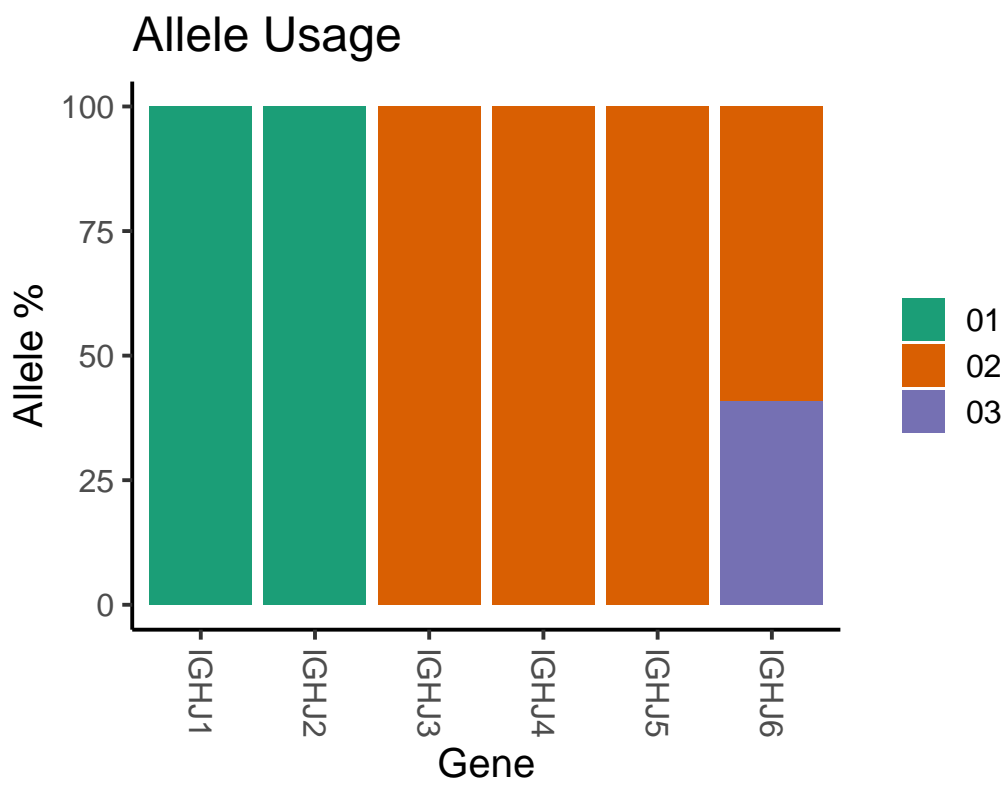
501 sequences assigned
319 (63.7%) exact matches, in which:
311 unique CDR3
6 unique J



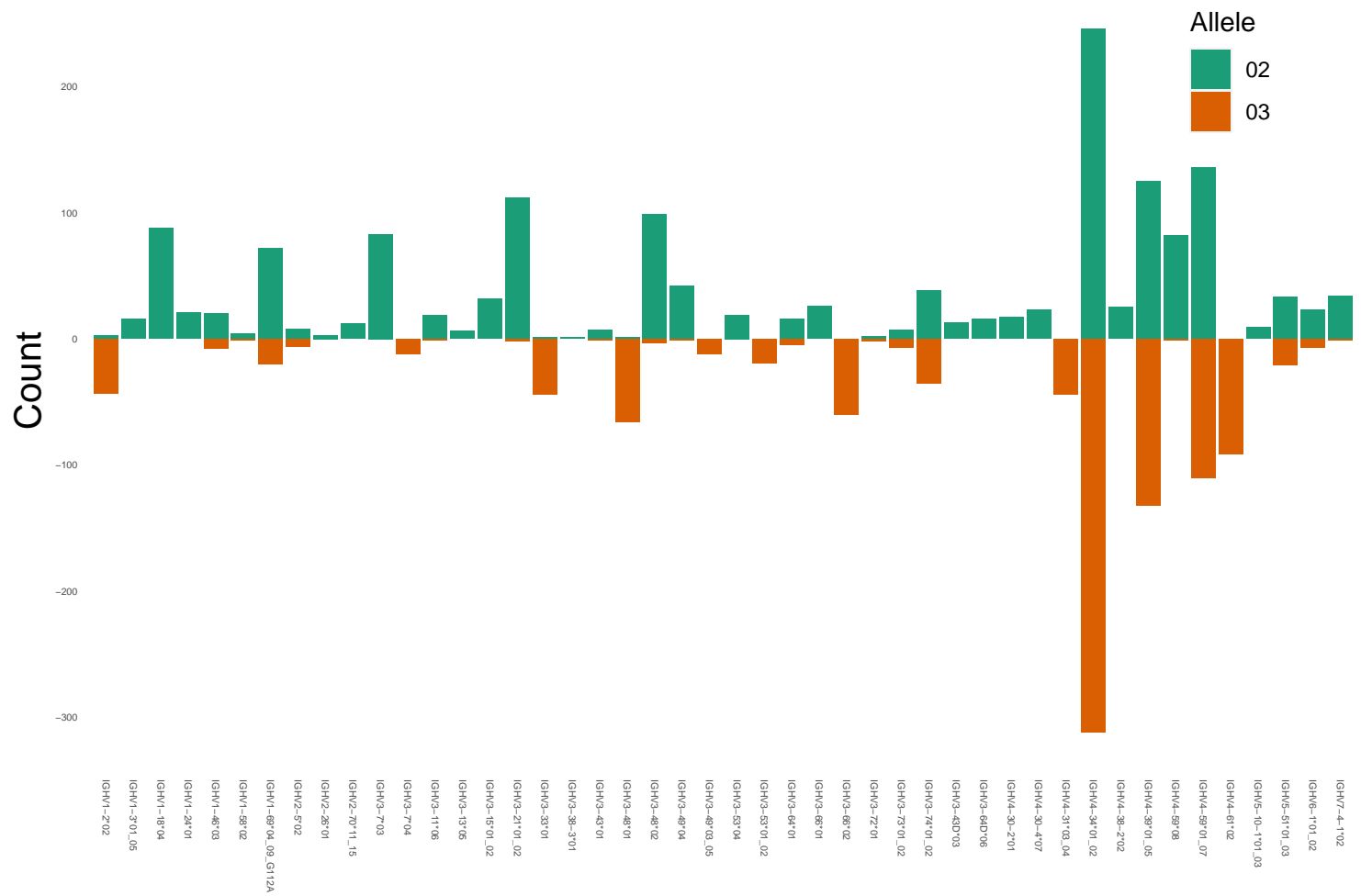
IGHV6-1*01_02

173 sequences assigned
105 (60.7%) exact matches, in which:
105 unique CDR3
6 unique J





Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.