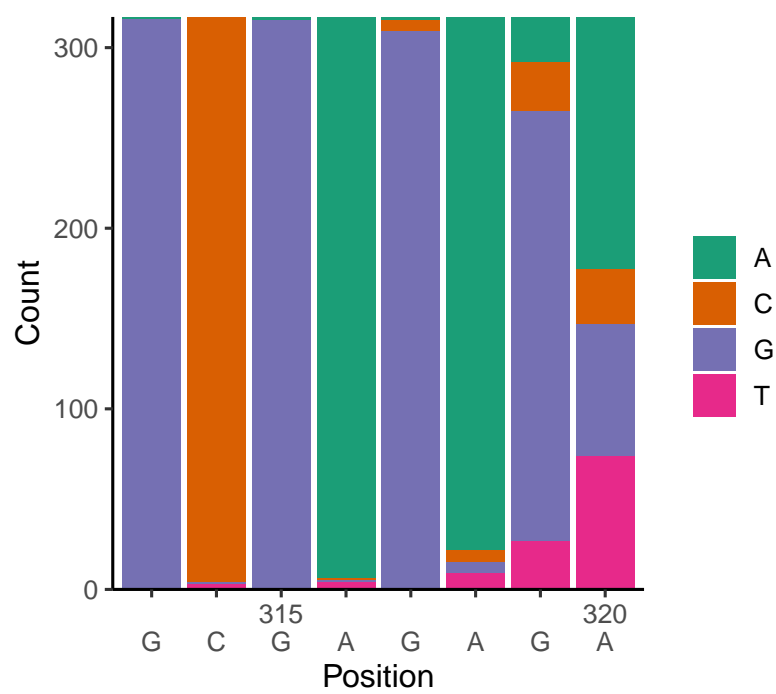
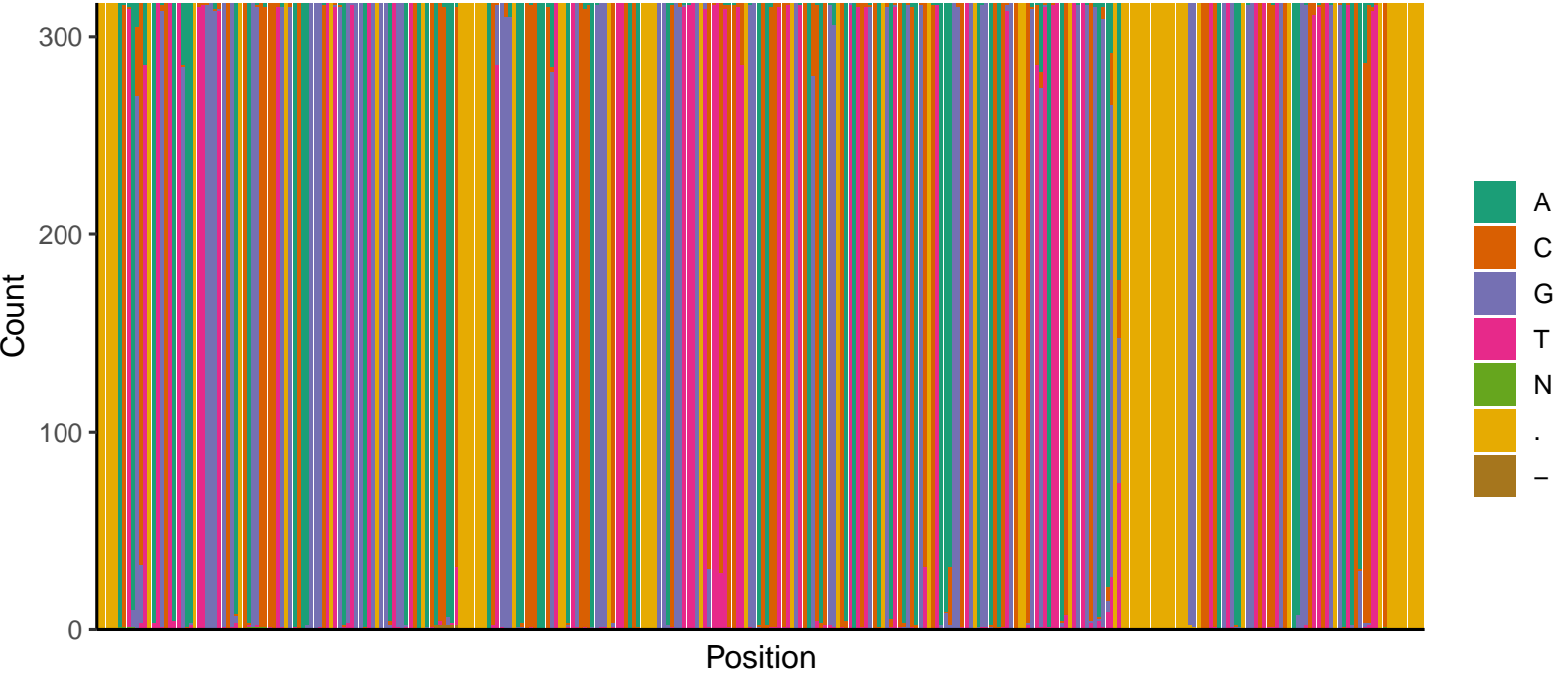


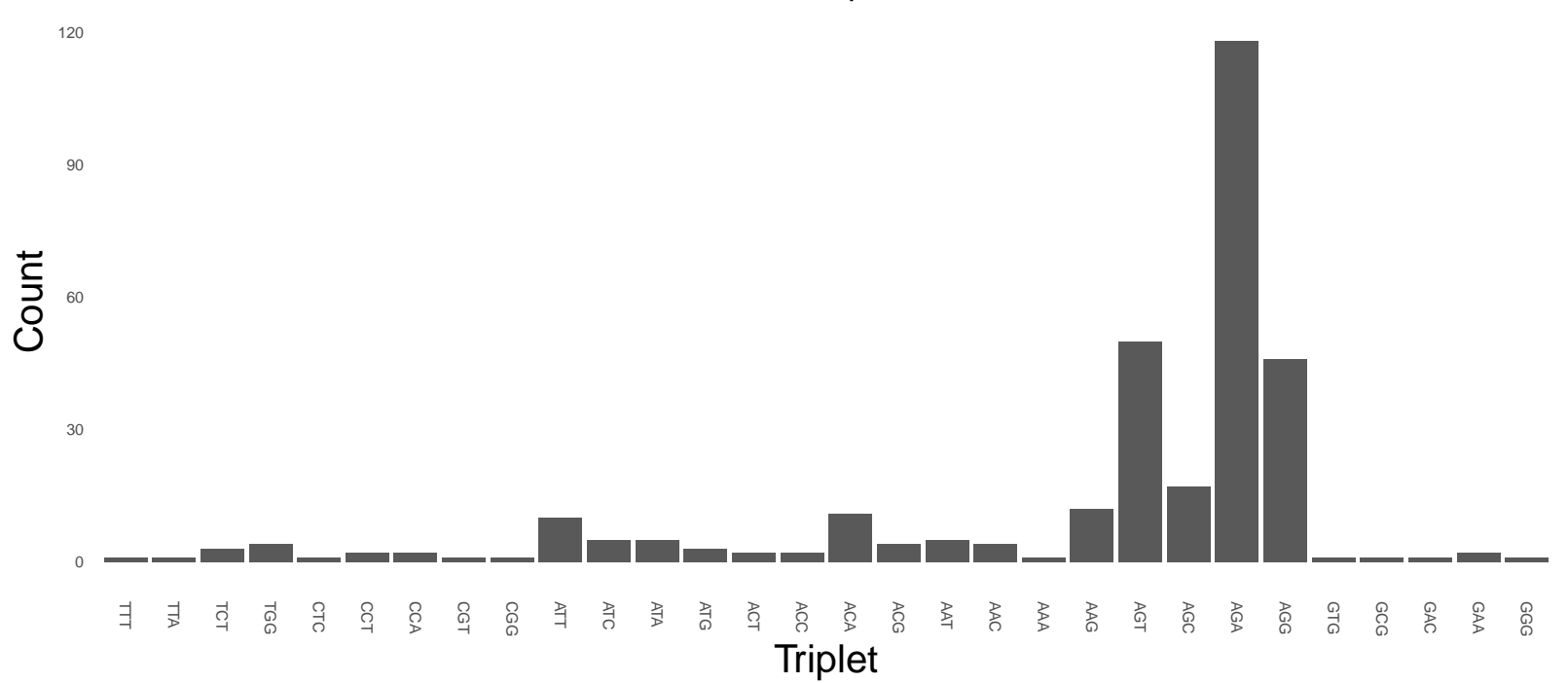
Gene IGHV7-4-1*02_T63C



Gene IGHV7-4-1*02_T63C

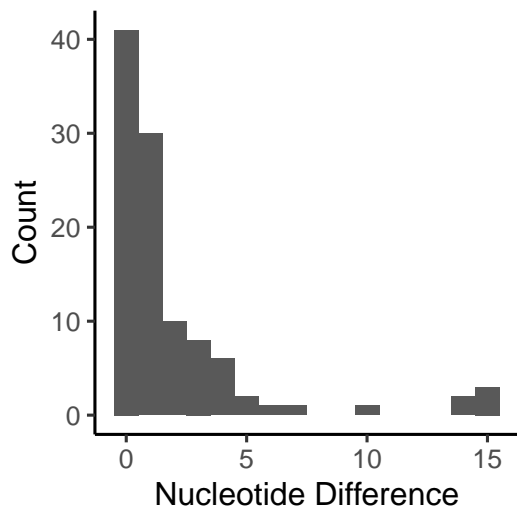


IGHV7-4-1*02_T63C- Final 3 nucleotides as a triplet



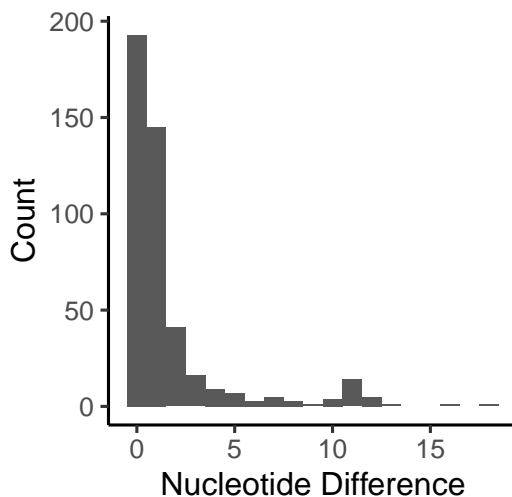
IGHV1-2*04

105 sequences assigned
41 (39%) exact matches, in which:
37 unique CDR3
6 unique J



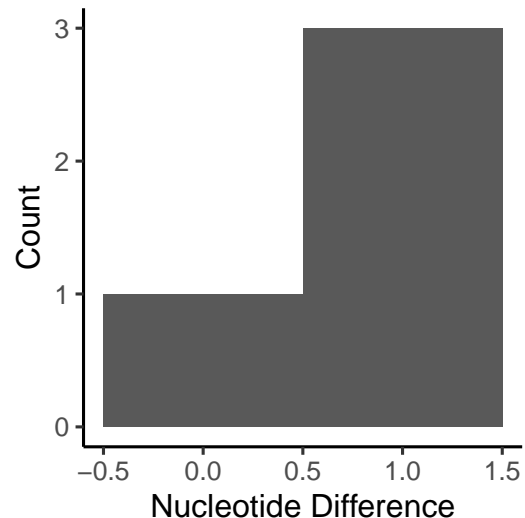
IGHV1-18*01

450 sequences assigned
193 (42.9%) exact matches, in which:
182 unique CDR3
6 unique J



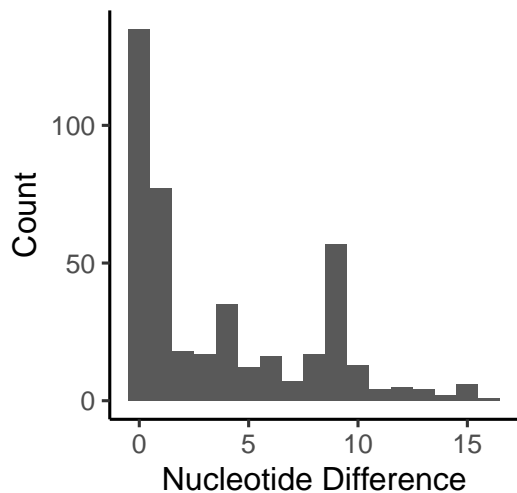
IGHV1-45*02

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



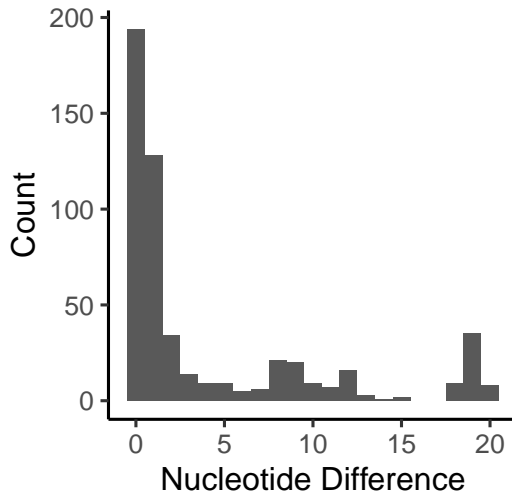
IGHV1-3*01_05

426 sequences assigned
135 (31.7%) exact matches, in which:
124 unique CDR3
7 unique J



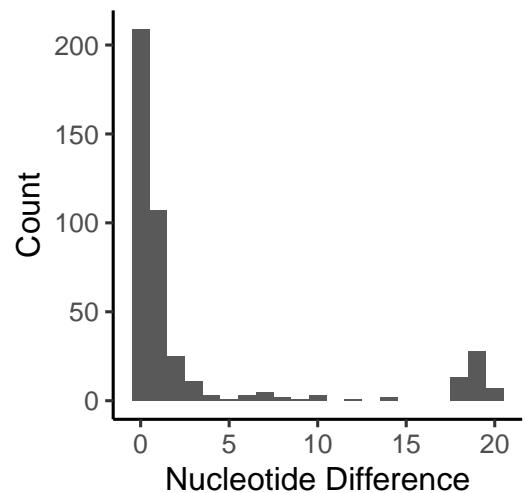
IGHV1-18*04

541 sequences assigned
194 (35.9%) exact matches, in which:
183 unique CDR3
6 unique J



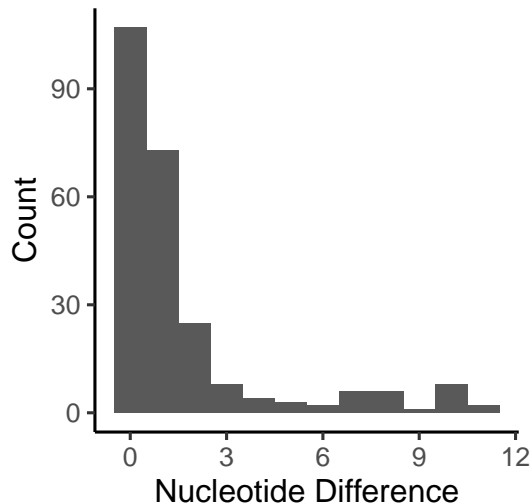
IGHV1-46*01

506 sequences assigned
209 (41.3%) exact matches, in which:
199 unique CDR3
7 unique J



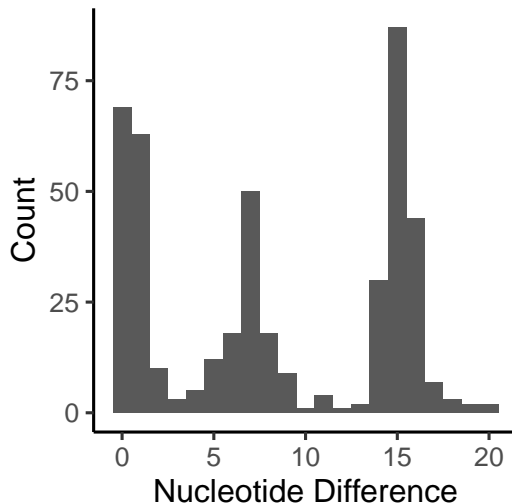
IGHV1-8*01

245 sequences assigned
107 (43.7%) exact matches, in which:
102 unique CDR3
7 unique J



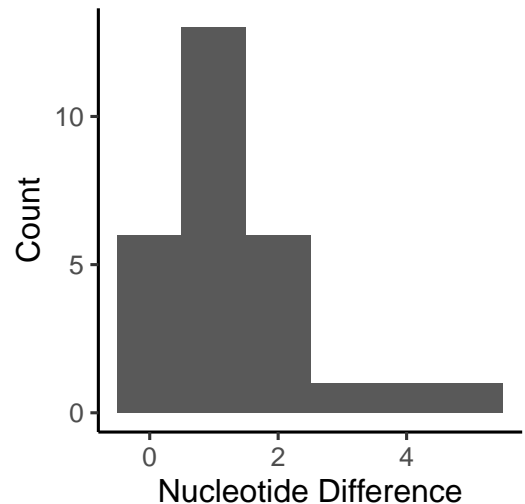
IGHV1-24*01

441 sequences assigned
69 (15.6%) exact matches, in which:
64 unique CDR3
7 unique J



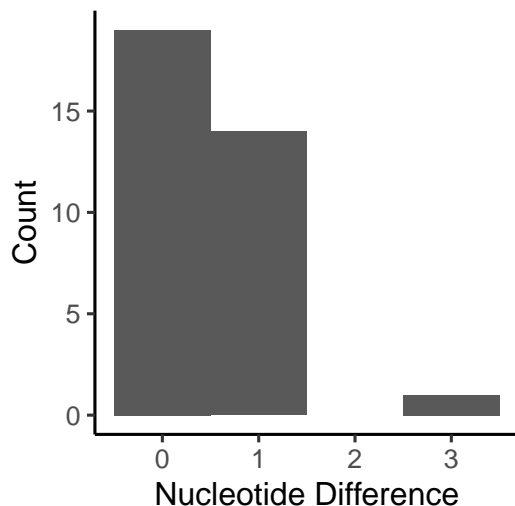
IGHV1-58*02

28 sequences assigned
6 (21.4%) exact matches, in which:
6 unique CDR3
3 unique J



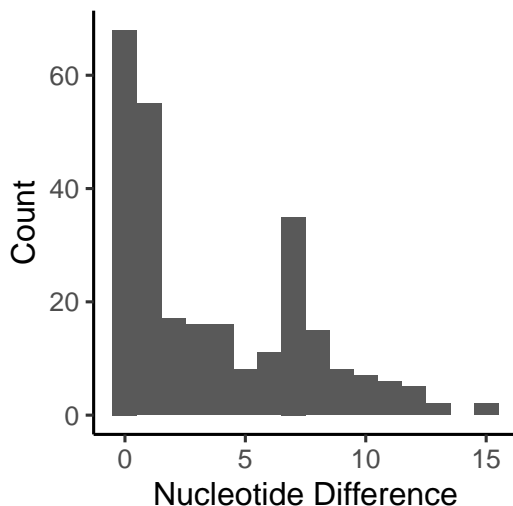
IGHV1-58*01_03

34 sequences assigned
19 (55.9%) exact matches, in which:
18 unique CDR3
4 unique J



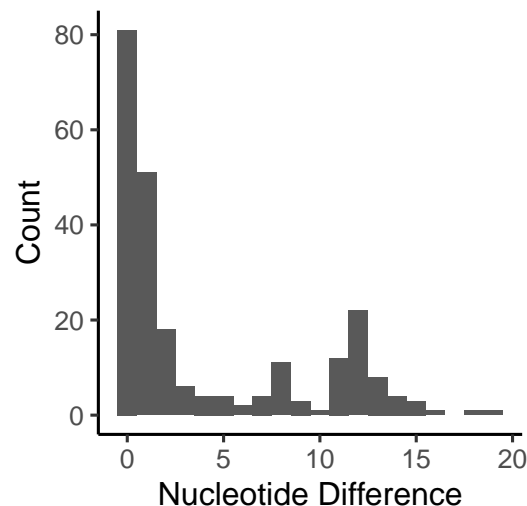
IGHV2-5*02

271 sequences assigned
68 (25.1%) exact matches, in which:
66 unique CDR3
6 unique J



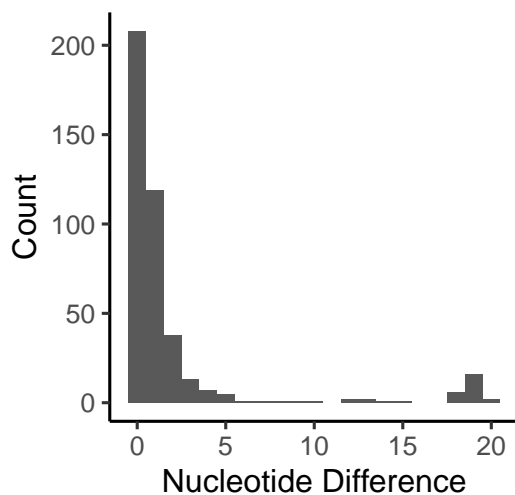
IGHV3-7*01

242 sequences assigned
81 (33.5%) exact matches, in which:
72 unique CDR3
6 unique J



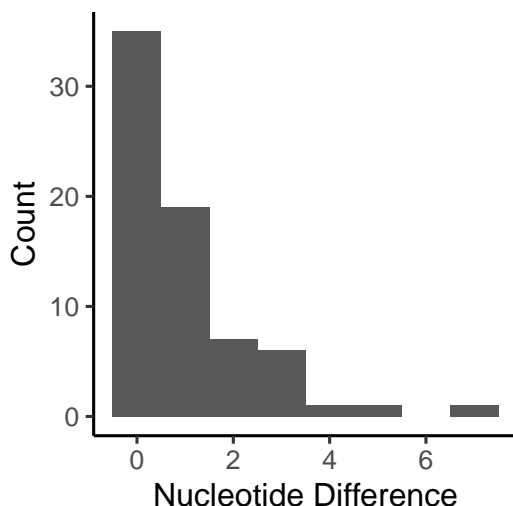
IGHV1-69*01_12_13

444 sequences assigned
208 (46.8%) exact matches, in which:
193 unique CDR3
6 unique J



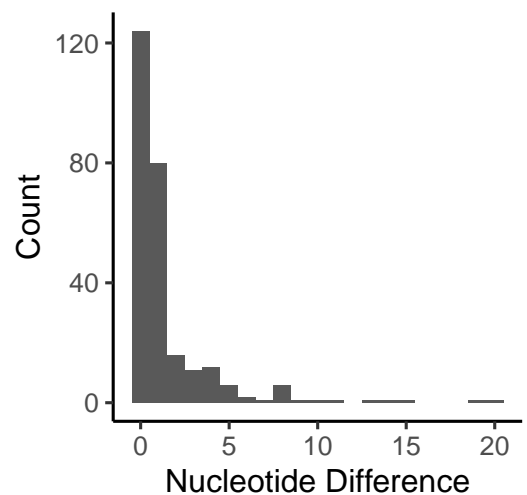
IGHV2-26*01

70 sequences assigned
35 (50%) exact matches, in which:
34 unique CDR3
6 unique J



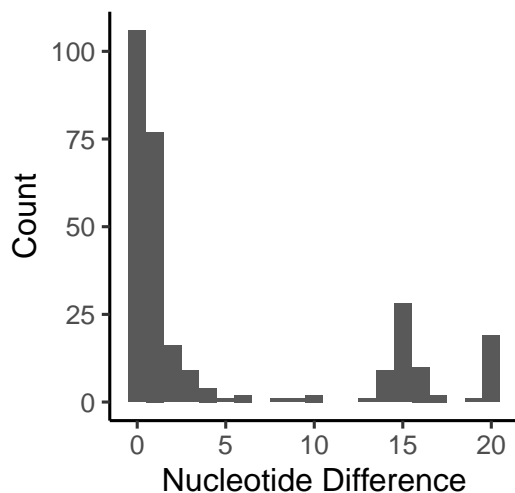
IGHV3-7*03

268 sequences assigned
124 (46.3%) exact matches, in which:
111 unique CDR3
6 unique J



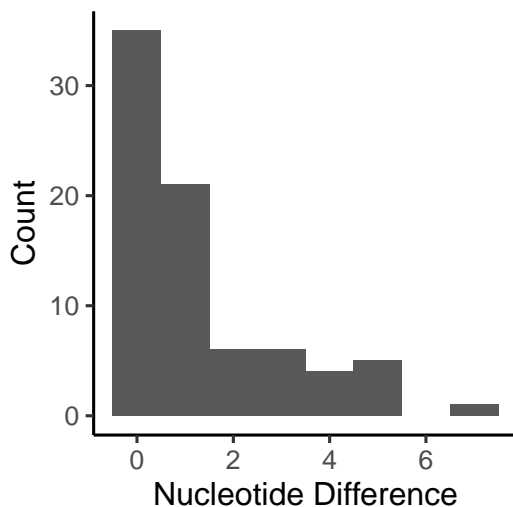
IGHV1-69*10

356 sequences assigned
106 (29.8%) exact matches, in which:
98 unique CDR3
5 unique J



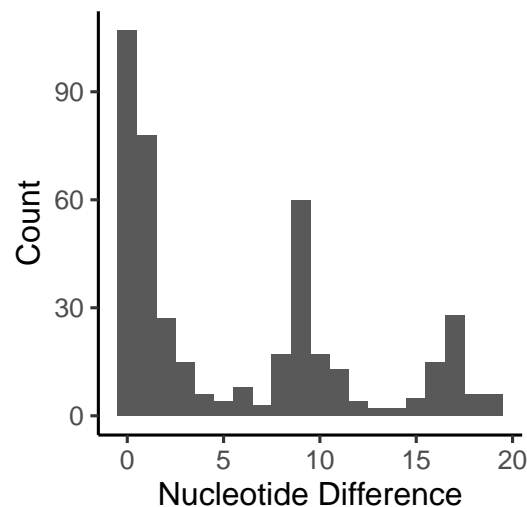
IGHV2-70*01

78 sequences assigned
35 (44.9%) exact matches, in which:
32 unique CDR3
4 unique J



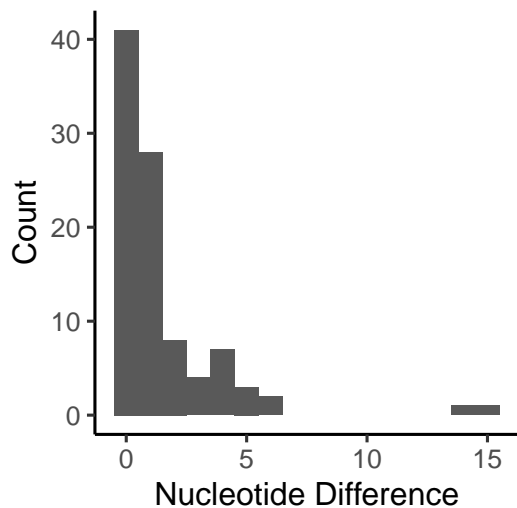
IGHV3-9*01

425 sequences assigned
107 (25.2%) exact matches, in which:
101 unique CDR3
6 unique J



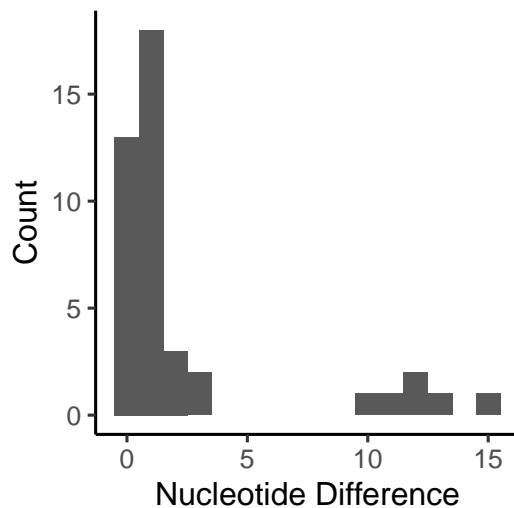
IGHV3-11*01

95 sequences assigned
41 (43.2%) exact matches, in which:
40 unique CDR3
5 unique J



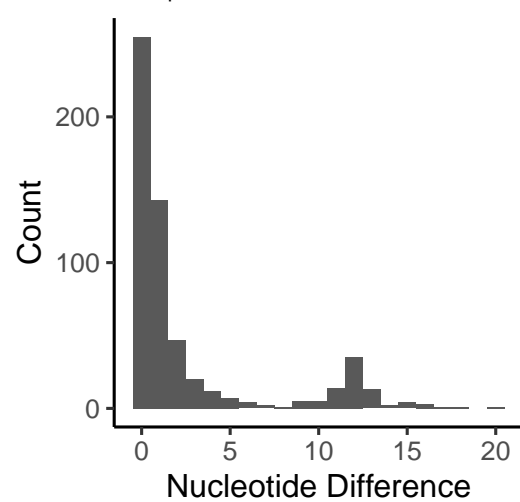
IGHV3-13*05

42 sequences assigned
13 (31%) exact matches, in which:
12 unique CDR3
4 unique J



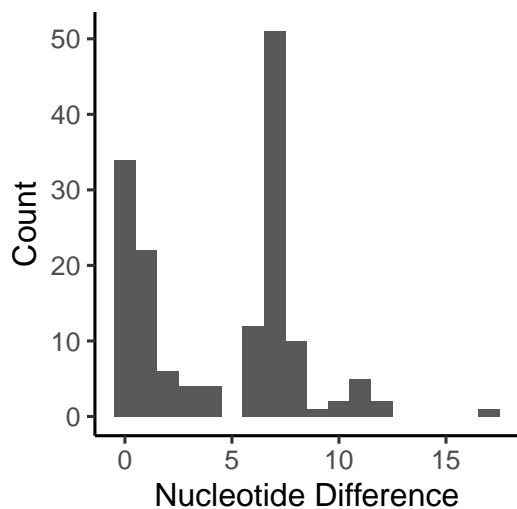
IGHV3-21*01_02

613 sequences assigned
255 (41.6%) exact matches, in which:
237 unique CDR3
6 unique J



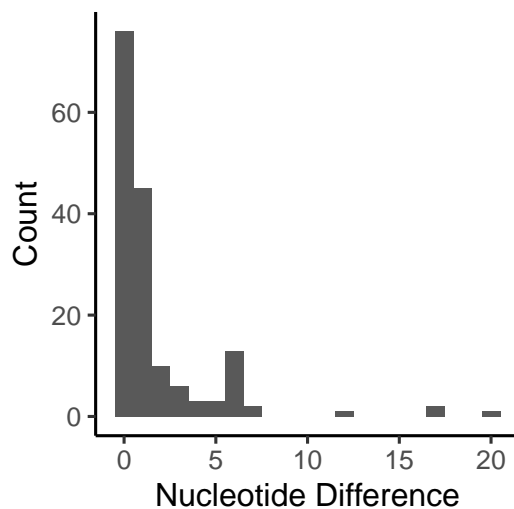
IGHV3-11*06

154 sequences assigned
34 (22.1%) exact matches, in which:
33 unique CDR3
4 unique J



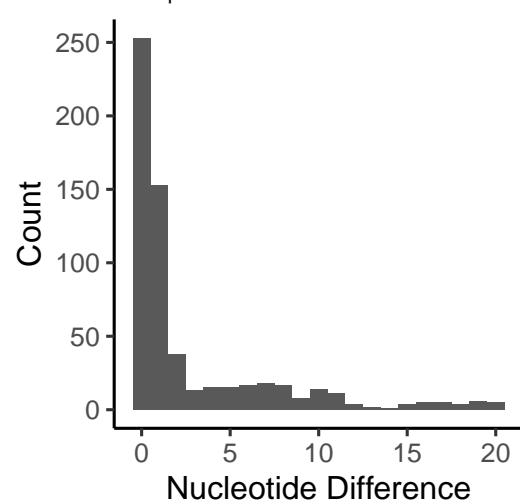
IGHV3-15*01_02

162 sequences assigned
76 (46.9%) exact matches, in which:
73 unique CDR3
6 unique J



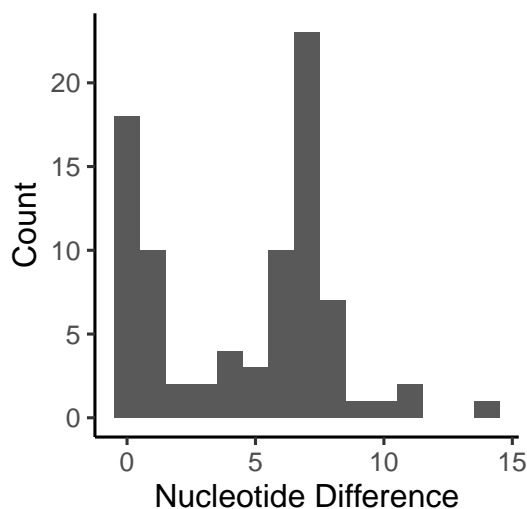
IGHV3-23*01_04

686 sequences assigned
253 (36.9%) exact matches, in which:
242 unique CDR3
7 unique J



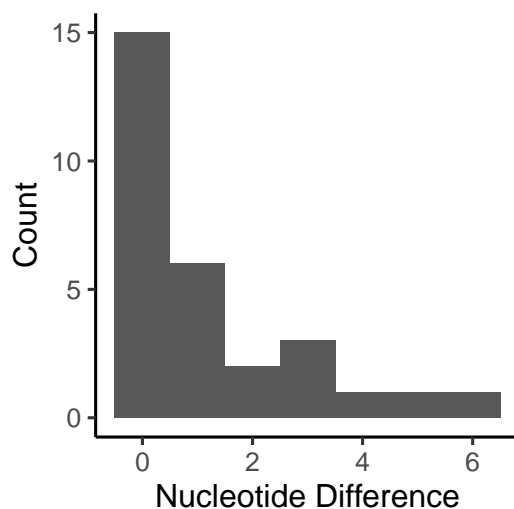
IGHV3-13*01

84 sequences assigned
18 (21.4%) exact matches, in which:
16 unique CDR3
3 unique J



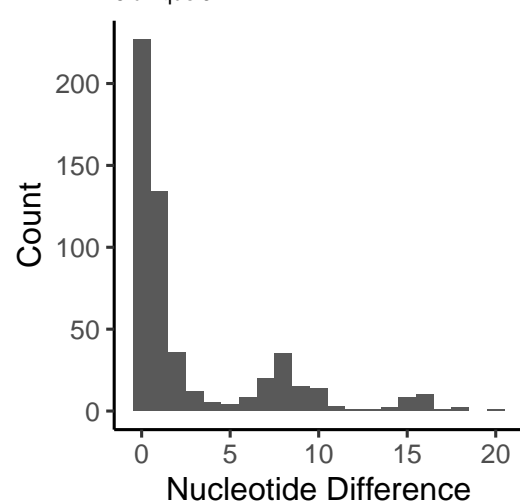
IGHV3-20*01_02

113 sequences assigned
15 (13.3%) exact matches, in which:
13 unique CDR3
4 unique J



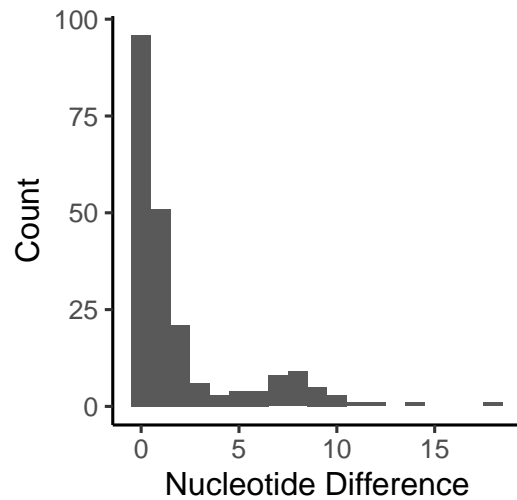
IGHV3-30-3*01

559 sequences assigned
227 (40.6%) exact matches, in which:
212 unique CDR3
6 unique J



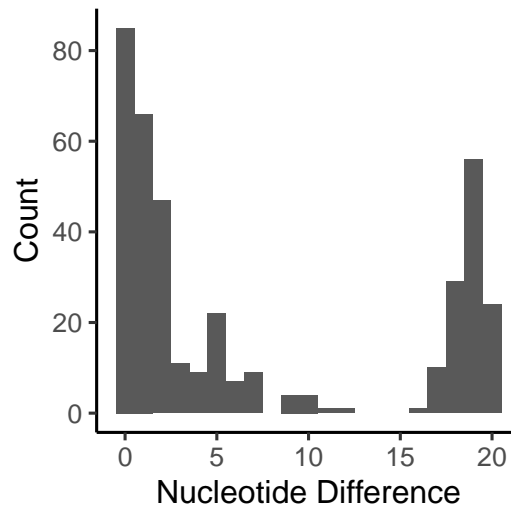
IGHV3-33*01

214 sequences assigned
96 (44.9%) exact matches, in which:
86 unique CDR3
5 unique J



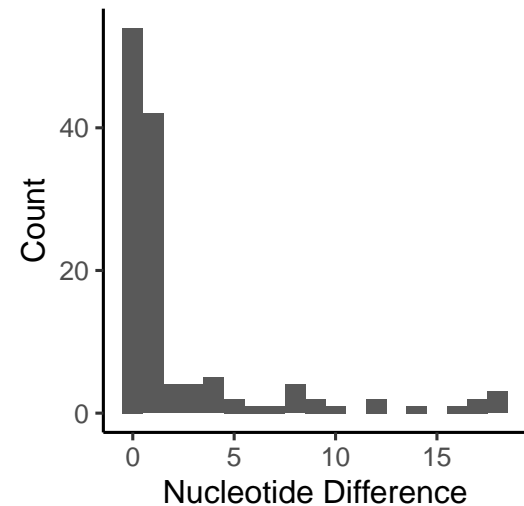
IGHV3-48*04

405 sequences assigned
85 (21%) exact matches, in which:
78 unique CDR3
6 unique J



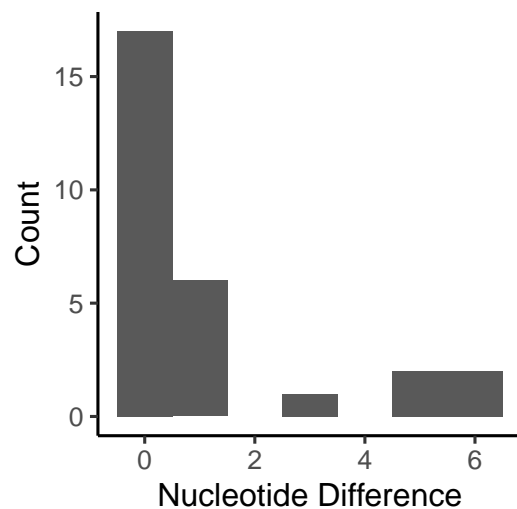
IGHV3-53*01_02

321 sequences assigned
54 (16.8%) exact matches, in which:
50 unique CDR3
5 unique J



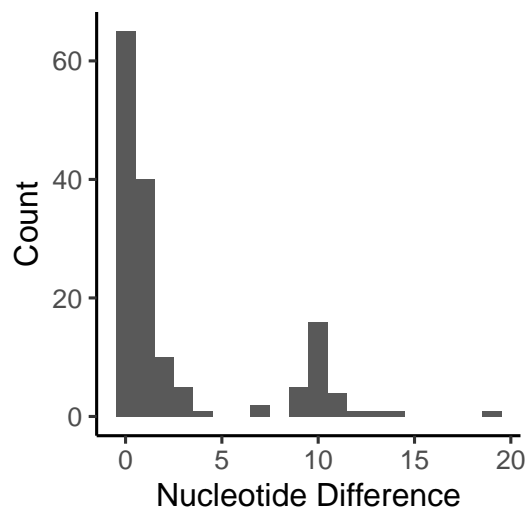
IGHV3-43*01

28 sequences assigned
17 (60.7%) exact matches, in which:
15 unique CDR3
4 unique J



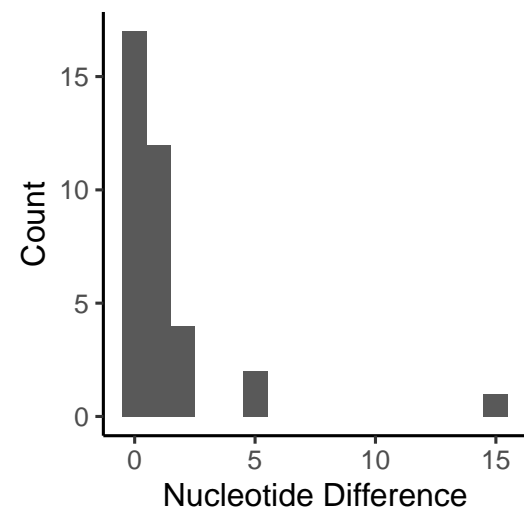
IGHV3-49*03_05

154 sequences assigned
65 (42.2%) exact matches, in which:
60 unique CDR3
5 unique J



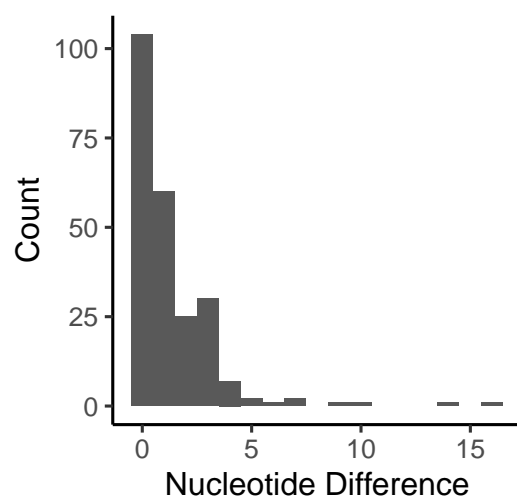
IGHV3-64*01

37 sequences assigned
17 (45.9%) exact matches, in which:
17 unique CDR3
5 unique J



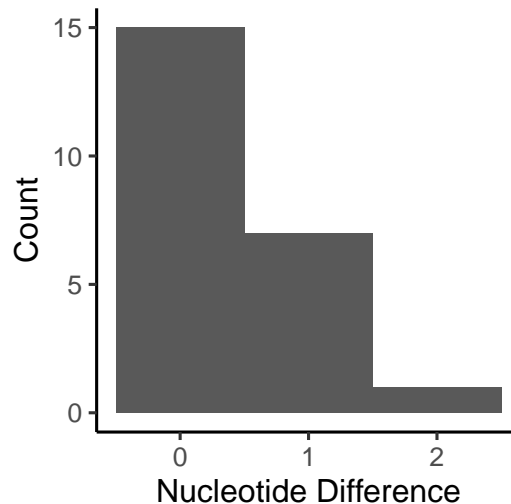
IGHV3-48*02

236 sequences assigned
104 (44.1%) exact matches, in which:
92 unique CDR3
4 unique J



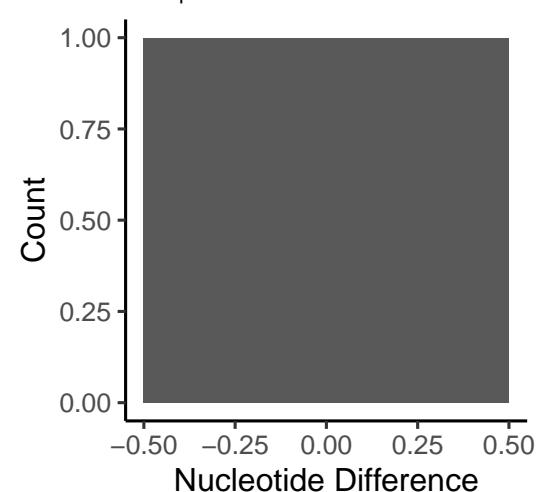
IGHV3-53*04

23 sequences assigned
15 (65.2%) exact matches, in which:
14 unique CDR3
5 unique J



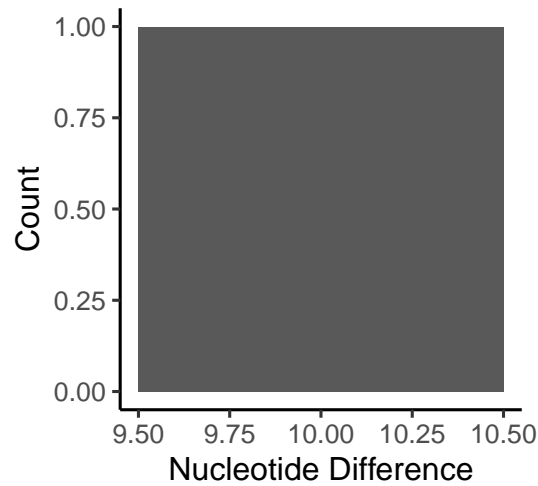
IGHV3-66*01

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



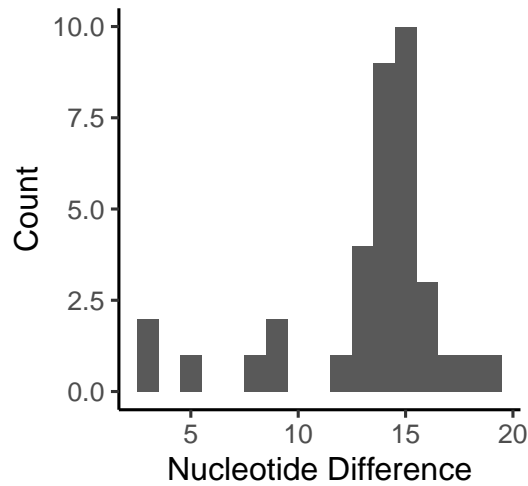
IGHV3-69-1*01

22 sequences assigned
No exact matches.



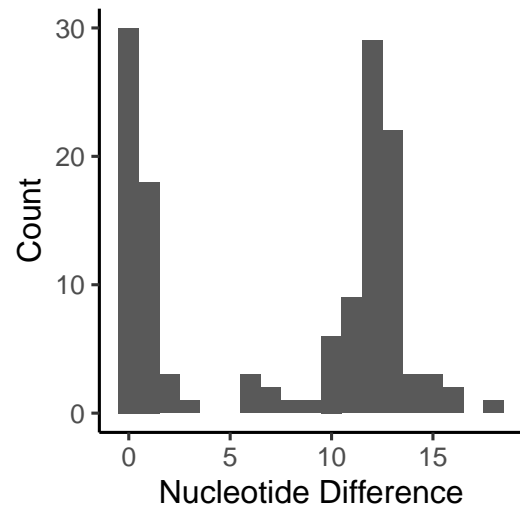
IGHV3-74*03

156 sequences assigned
No exact matches.



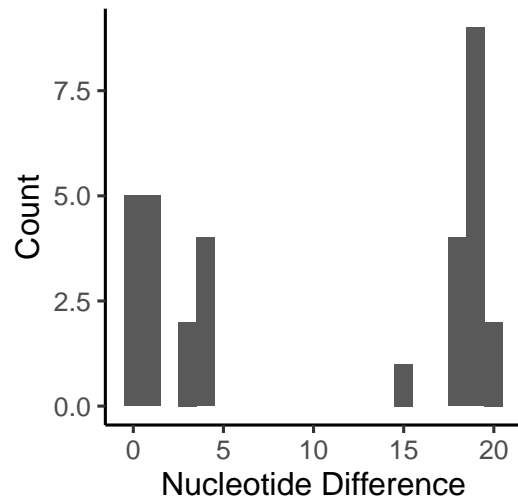
IGHV3-64D*06

134 sequences assigned
30 (22.4%) exact matches, in which:
28 unique CDR3
4 unique J



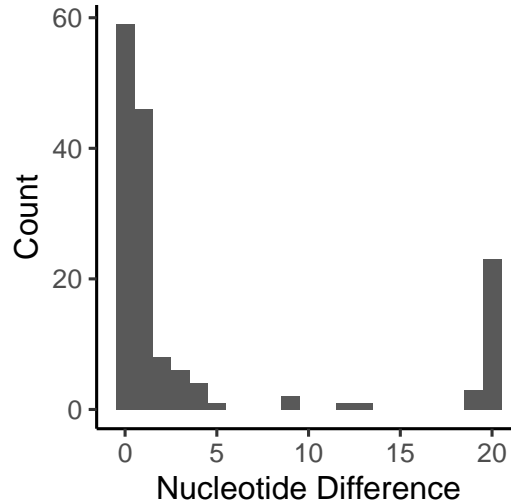
IGHV3-72*01

33 sequences assigned
5 (15.2%) exact matches, in which:
5 unique CDR3
3 unique J



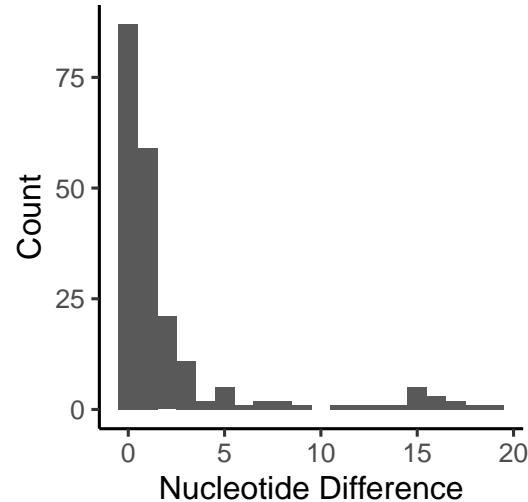
IGHV3-74*01_02

231 sequences assigned
59 (25.5%) exact matches, in which:
54 unique CDR3
6 unique J



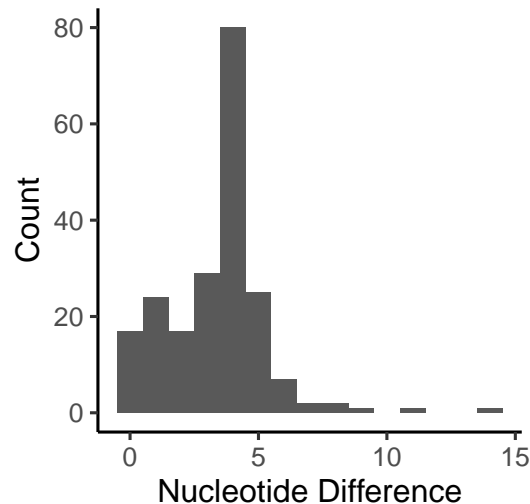
IGHV4-4*02_03

207 sequences assigned
87 (42%) exact matches, in which:
83 unique CDR3
7 unique J



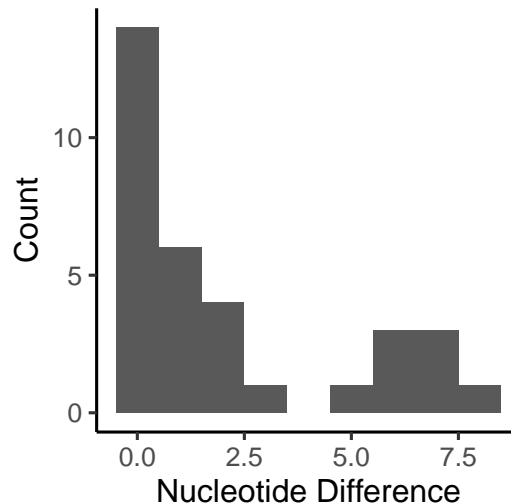
IGHV3-73*01_02

206 sequences assigned
17 (8.3%) exact matches, in which:
16 unique CDR3
4 unique J



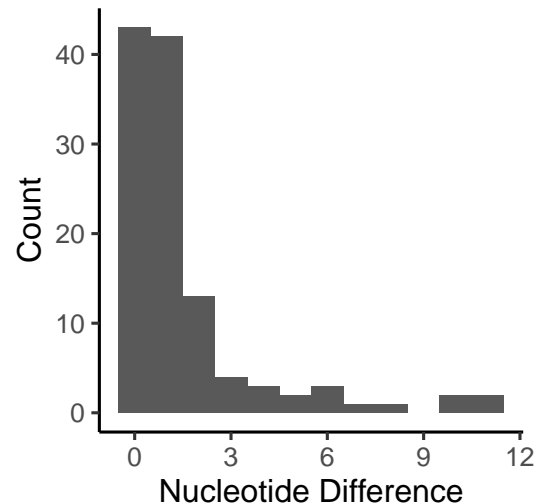
IGHV3-43D*03

33 sequences assigned
14 (42.4%) exact matches, in which:
13 unique CDR3
4 unique J



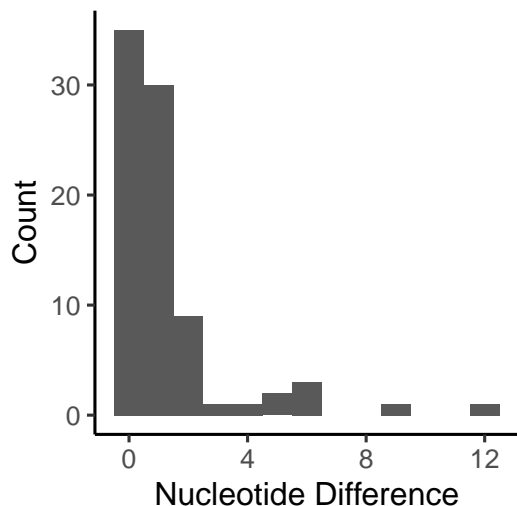
IGHV4-30-4*01

116 sequences assigned
43 (37.1%) exact matches, in which:
41 unique CDR3
5 unique J



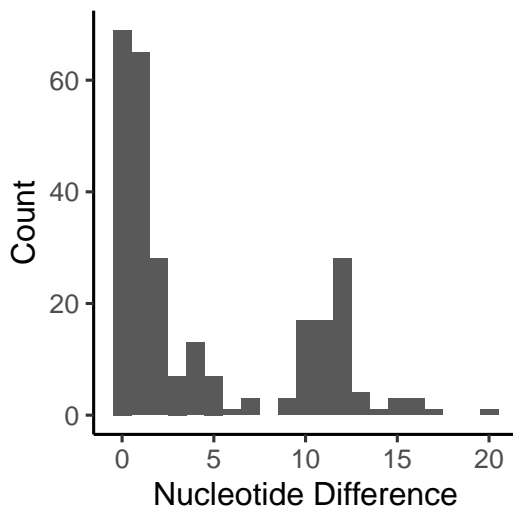
IGHV4-30-2*01

83 sequences assigned
35 (42.2%) exact matches, in which:
31 unique CDR3
5 unique J



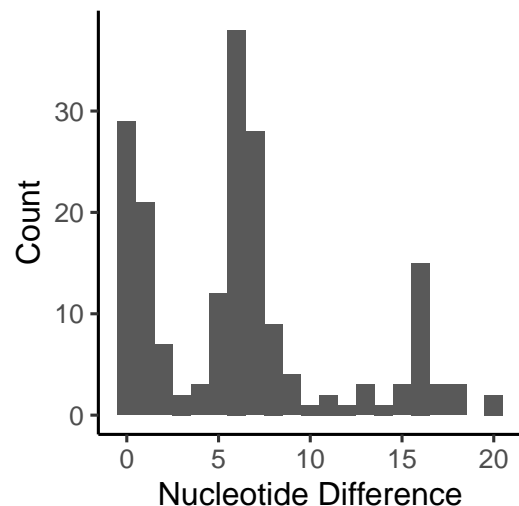
IGHV4-38-2*02

272 sequences assigned
69 (25.4%) exact matches, in which:
65 unique CDR3
6 unique J



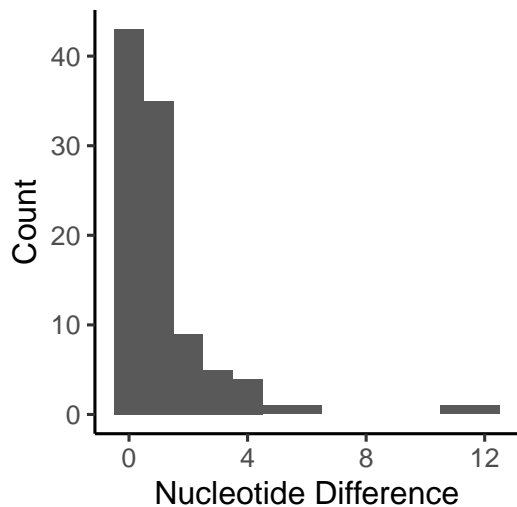
IGHV4-61*01

203 sequences assigned
29 (14.3%) exact matches, in which:
28 unique CDR3
6 unique J



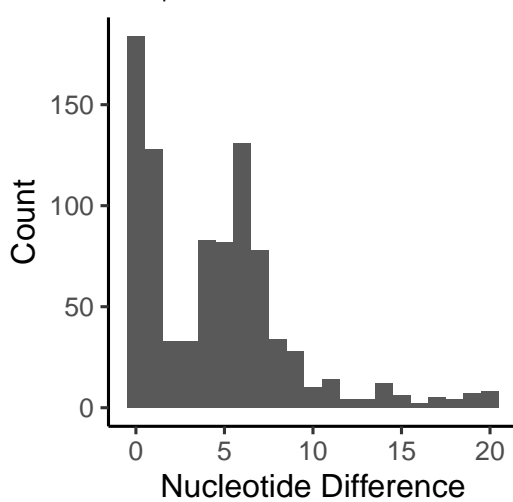
IGHV4-31*02

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



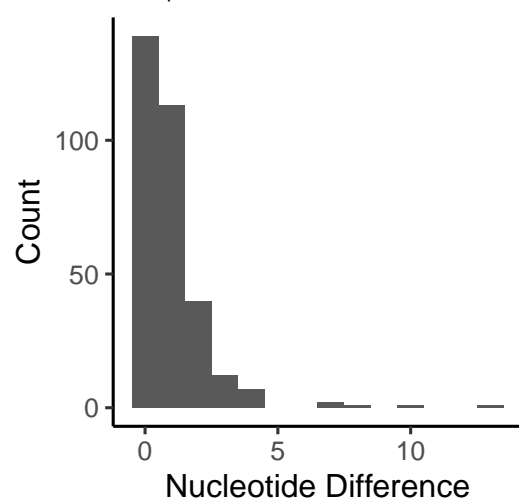
IGHV4-39*07

957 sequences assigned
184 (19.2%) exact matches, in which:
175 unique CDR3
7 unique J



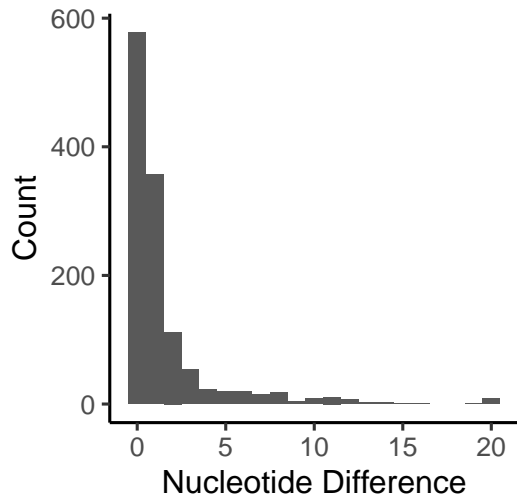
IGHV5-10-1*01_03

316 sequences assigned
139 (44%) exact matches, in which:
127 unique CDR3
5 unique J



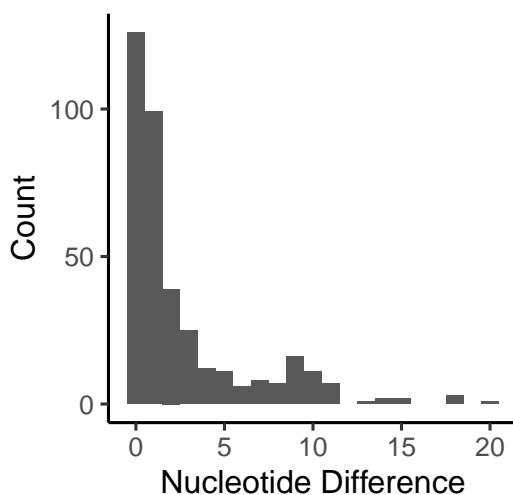
IGHV4-34*01_02

1275 sequences assigned
578 (45.3%) exact matches, in which:
534 unique CDR3
7 unique J



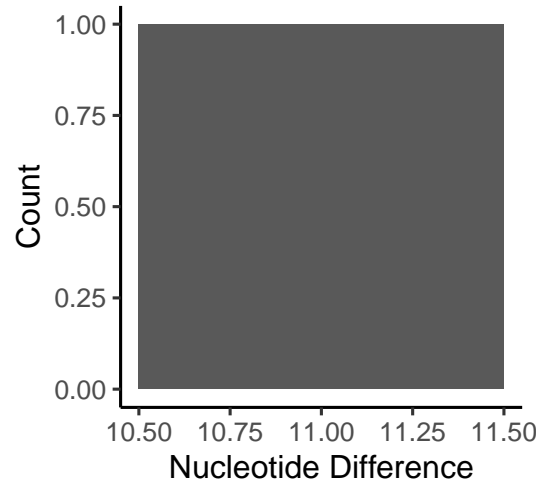
IGHV4-59*08

716 sequences assigned
126 (17.6%) exact matches, in which:
112 unique CDR3
6 unique J



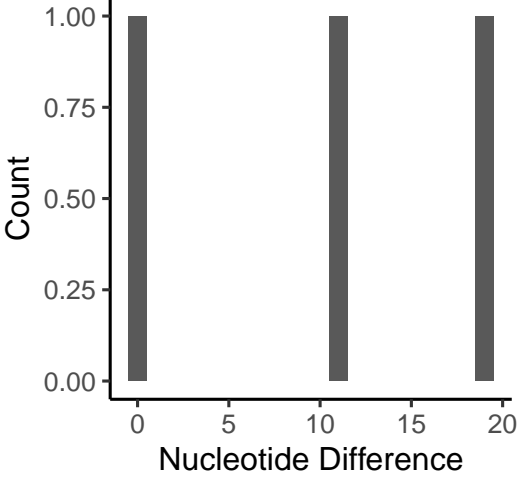
IGHV5-51*04

3 sequences assigned
No exact matches.



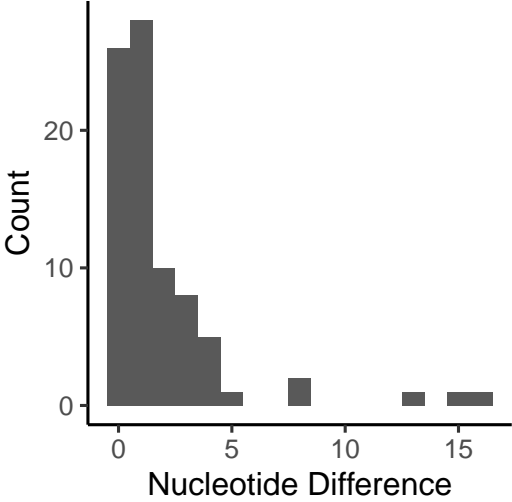
IGHV5-51*06

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



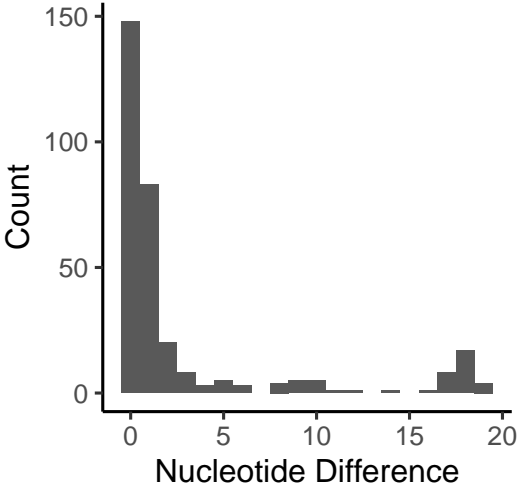
IGHV6-1*01_02

96 sequences assigned
26 (27.1%) exact matches, in which:
24 unique CDR3
5 unique J

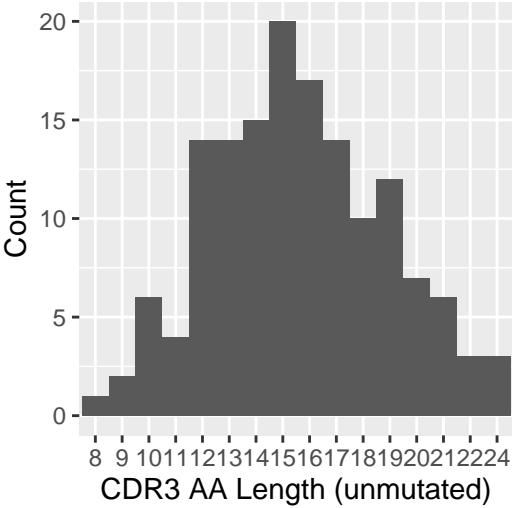


IGHV7-4-1*02_T63C

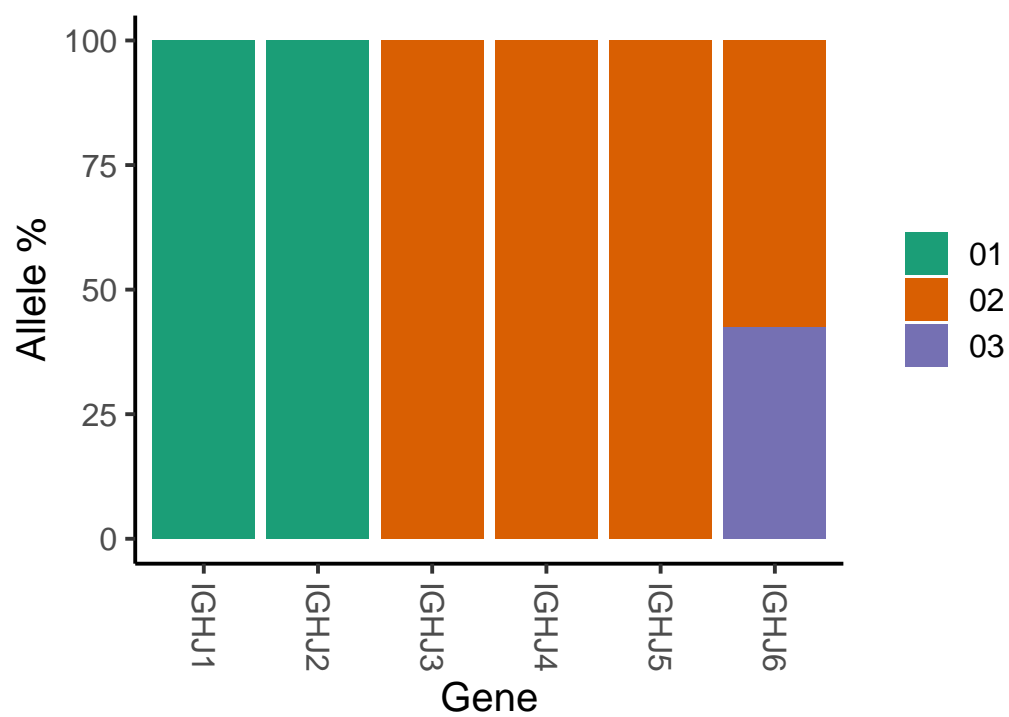
317 sequences assigned
148 (46.7%) exact matches, in which:
140 unique CDR3
7 unique J



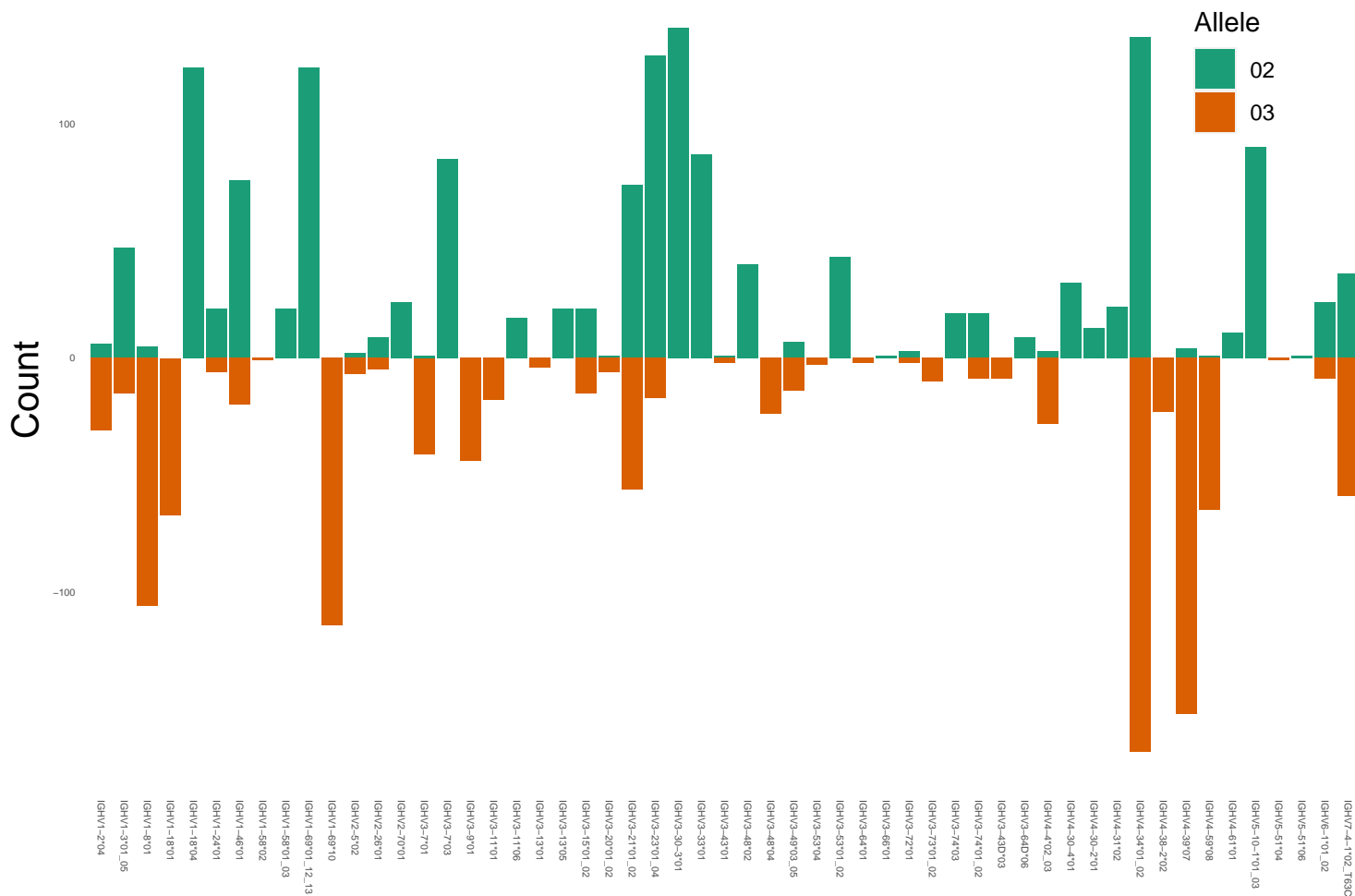
IGHV7-4-1*02_T63C



Allele Usage



Sequence Count by IGHJ6 allele usage



[illegible]