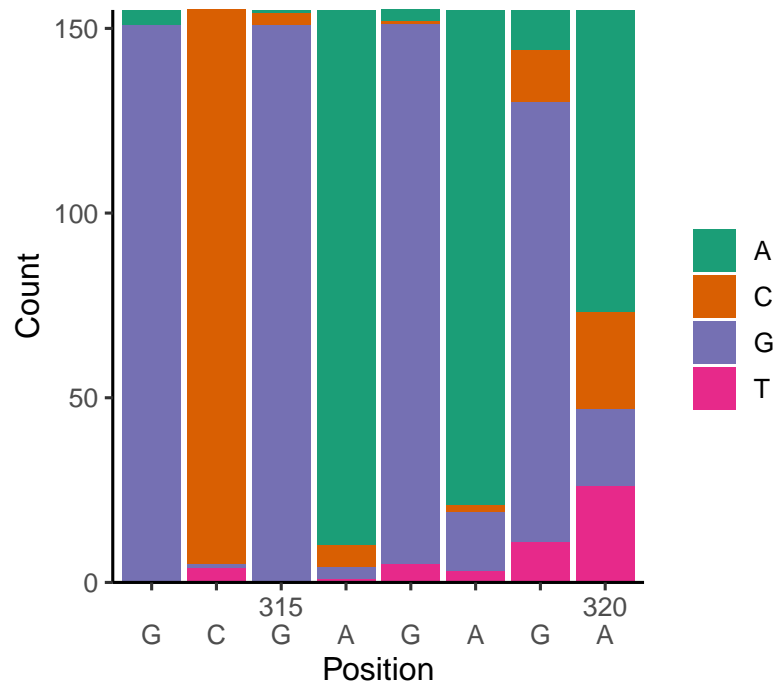
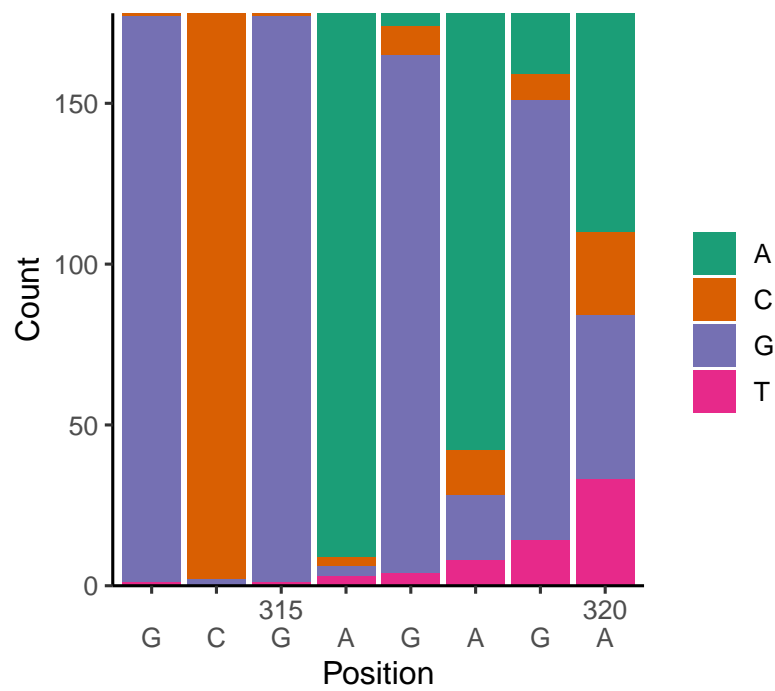


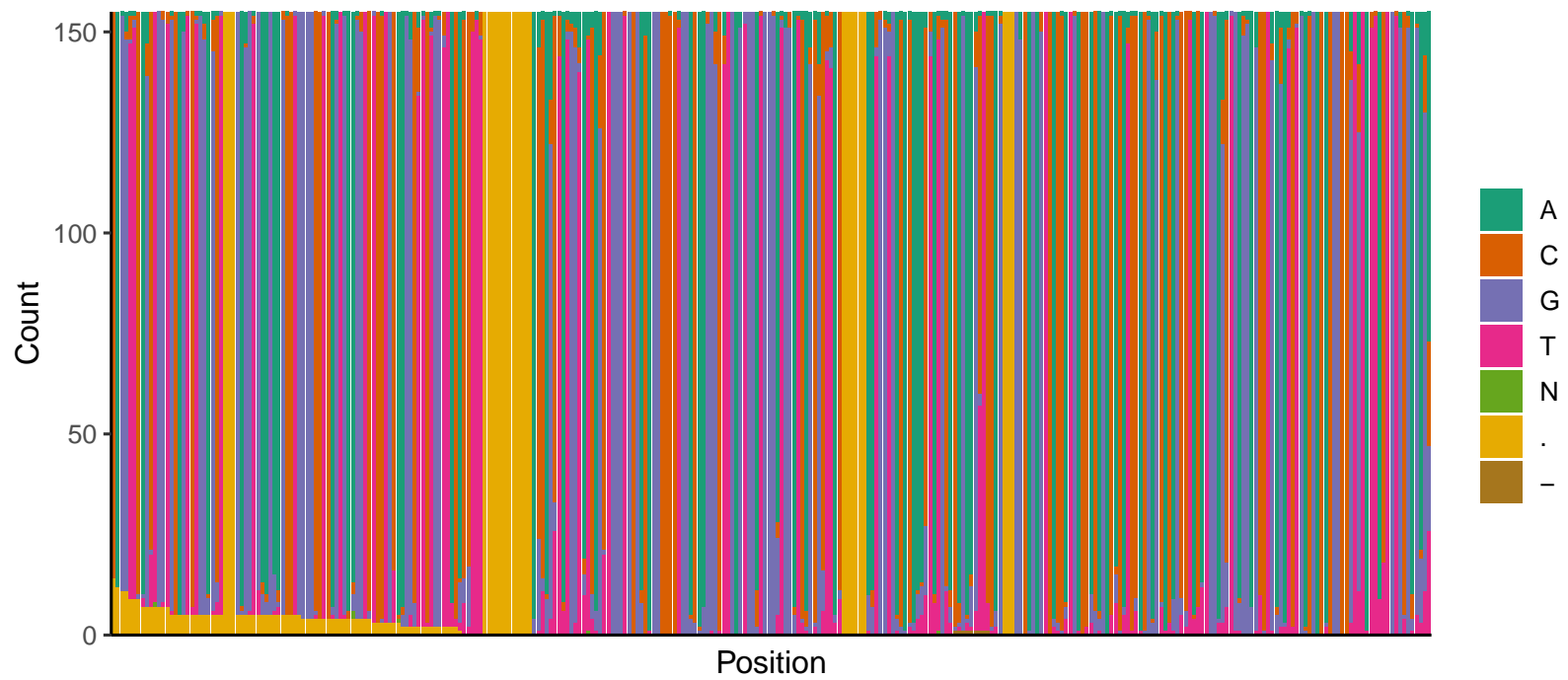
Gene IGHV1-18*01_A190G



Gene IGHV1-69*04_G48A_A163G_A244G



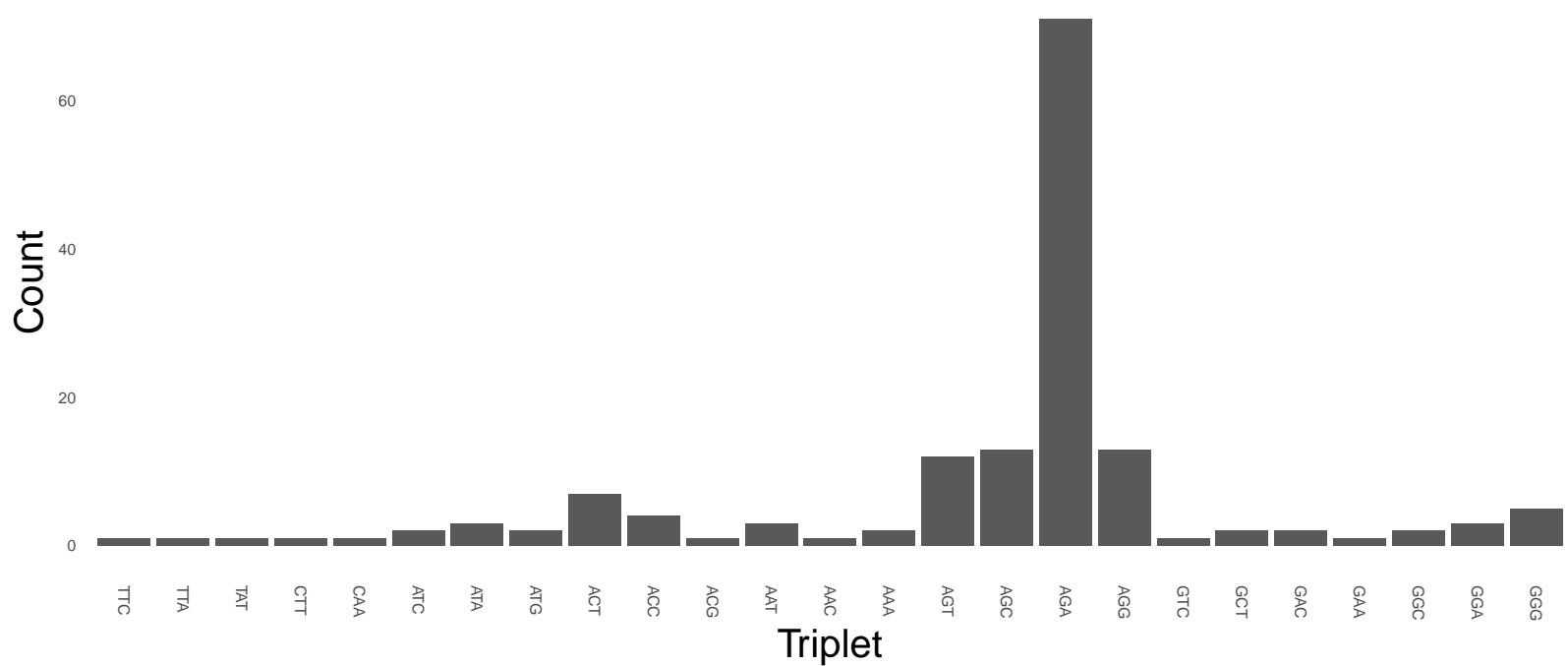
Gene IGHV1-18*01_A190G



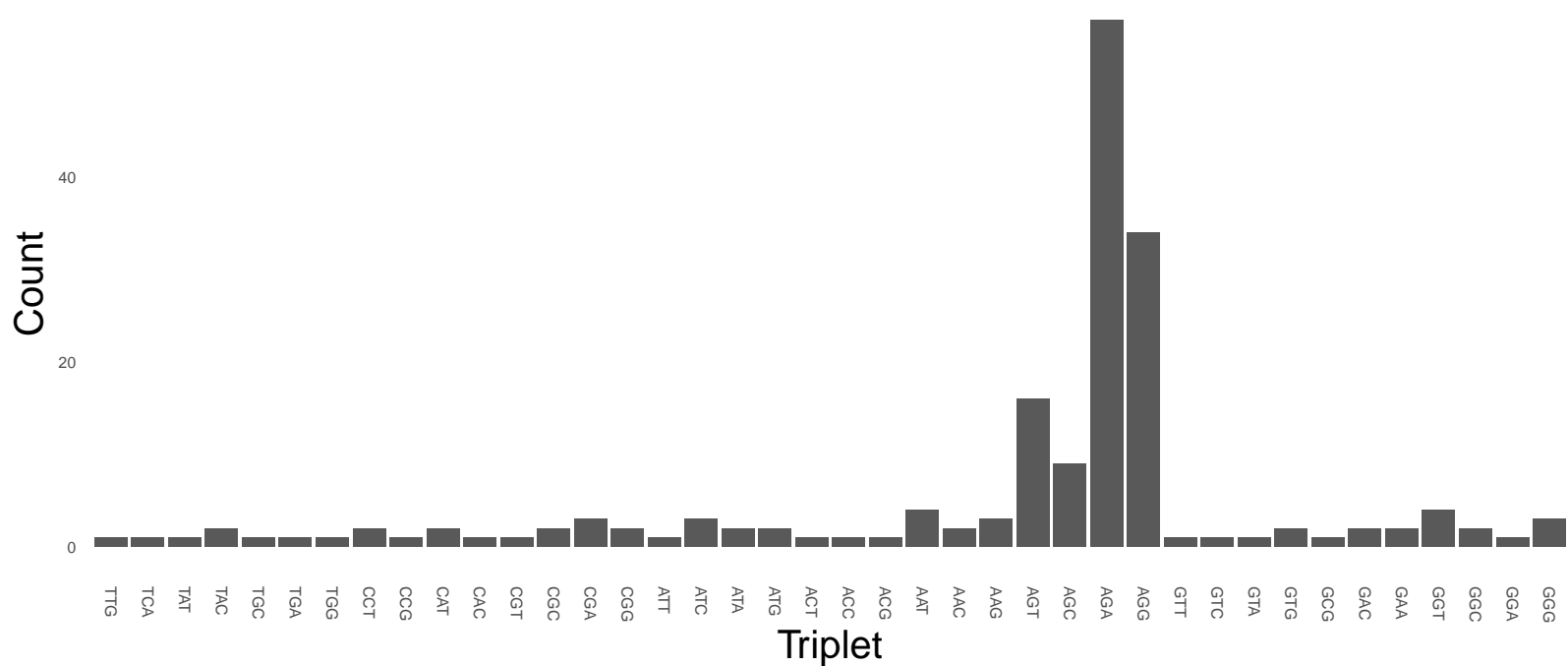
Gene IGHV1-69*04_G48A_A163G_A244G



IGHV1-18*01_A190G- Final 3 nucleotides as a triplet

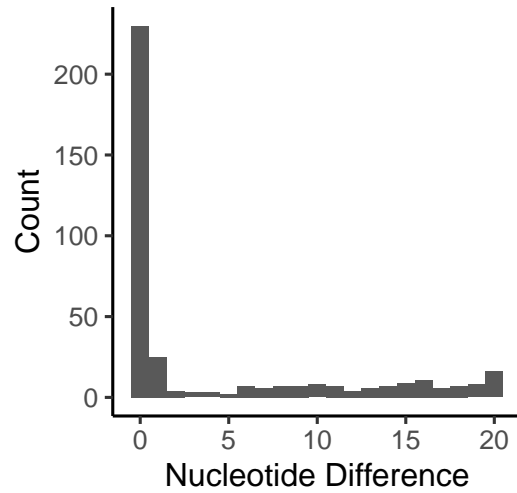


IGHV1-69*04_G48A_A163G_A244G- Final 3 nucleotides as a triplet



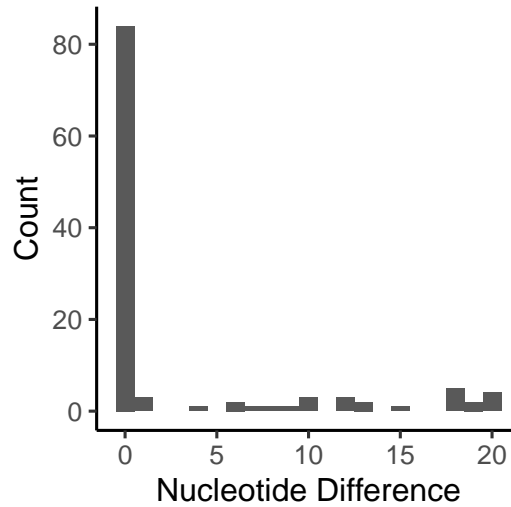
IGHV1-2*02

480 sequences assigned
230 (47.9%) exact matches, in which:
230 unique CDR3
6 unique J



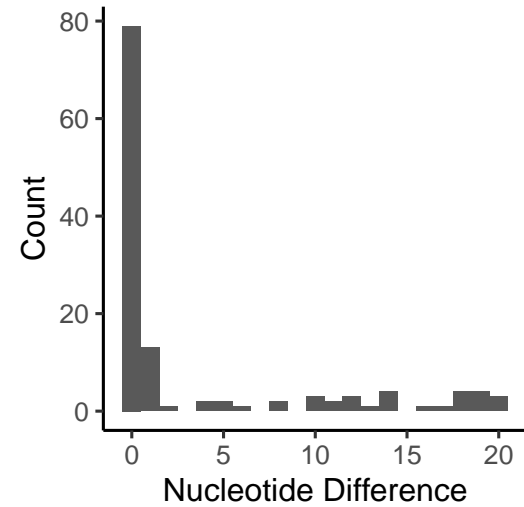
IGHV1-18*01

137 sequences assigned
84 (61.3%) exact matches, in which:
83 unique CDR3
6 unique J



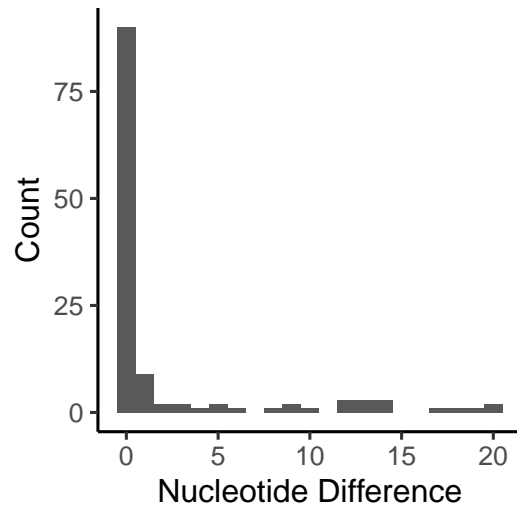
IGHV1-46*01

177 sequences assigned
79 (44.6%) exact matches, in which:
79 unique CDR3
7 unique J



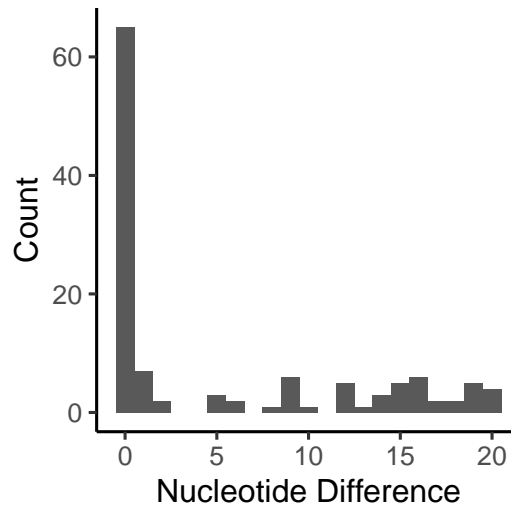
IGHV1-8*01

137 sequences assigned
90 (65.7%) exact matches, in which:
88 unique CDR3
7 unique J



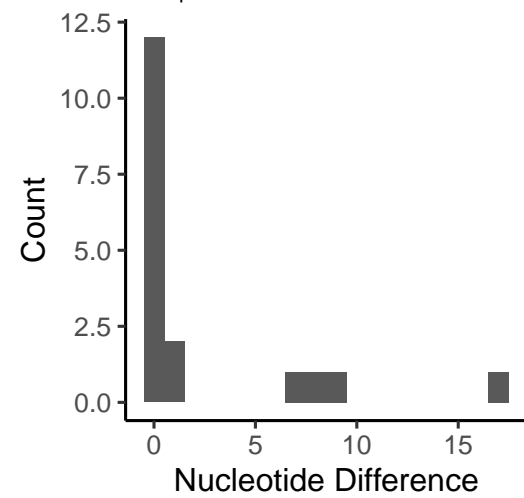
IGHV1-18*01_A190G

155 sequences assigned
65 (41.9%) exact matches, in which:
65 unique CDR3
5 unique J



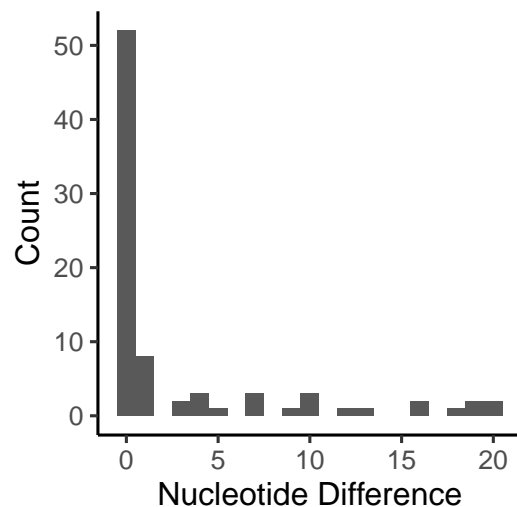
IGHV1-58*02

25 sequences assigned
12 (48%) exact matches, in which:
12 unique CDR3
5 unique J



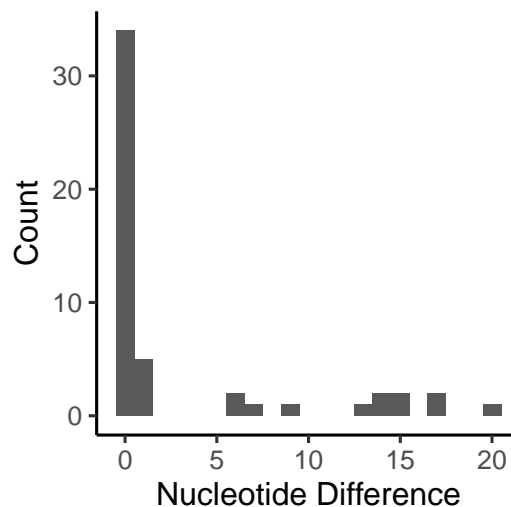
IGHV1-8*02

99 sequences assigned
52 (52.5%) exact matches, in which:
52 unique CDR3
6 unique J



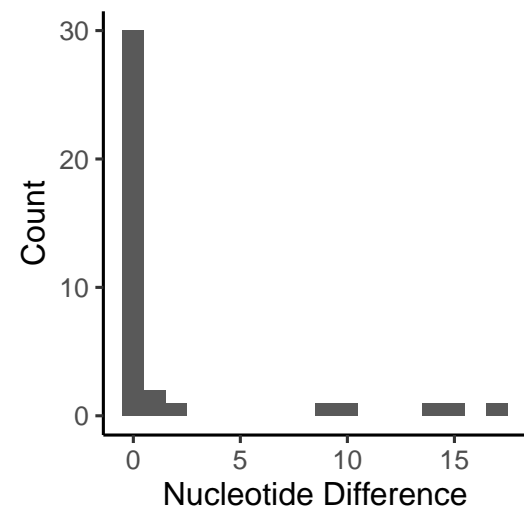
IGHV1-24*01

56 sequences assigned
34 (60.7%) exact matches, in which:
34 unique CDR3
6 unique J



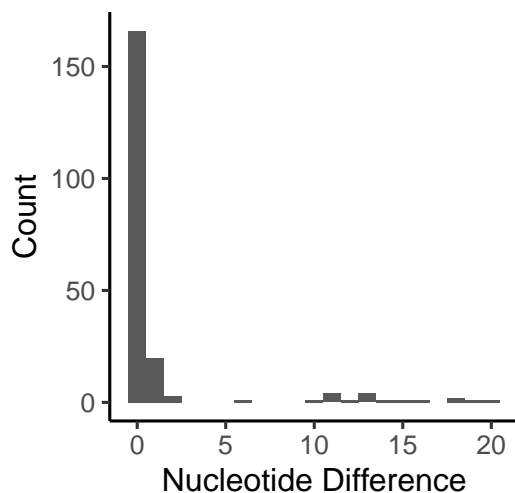
IGHV1-69-2*01

43 sequences assigned
30 (69.8%) exact matches, in which:
30 unique CDR3
5 unique J



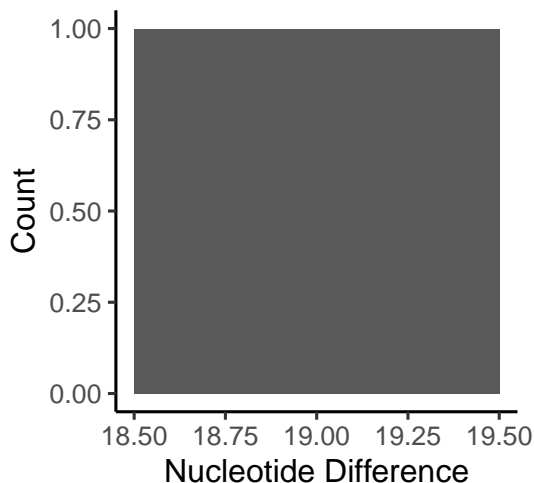
IGHV1–69*04

246 sequences assigned
166 (67.5%) exact matches, in which:
165 unique CDR3
6 unique J



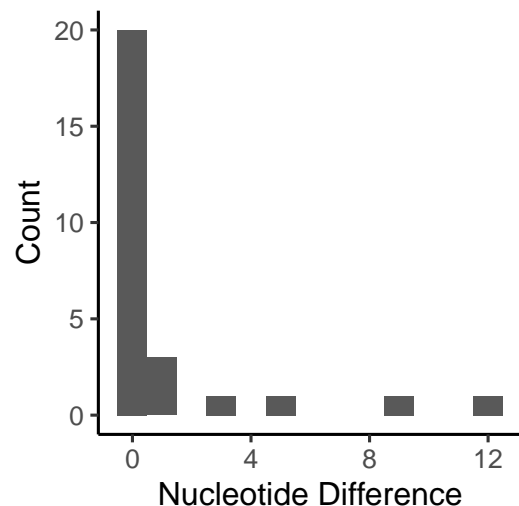
IGHV1–NL1*01

1 sequences assigned
No exact matches.



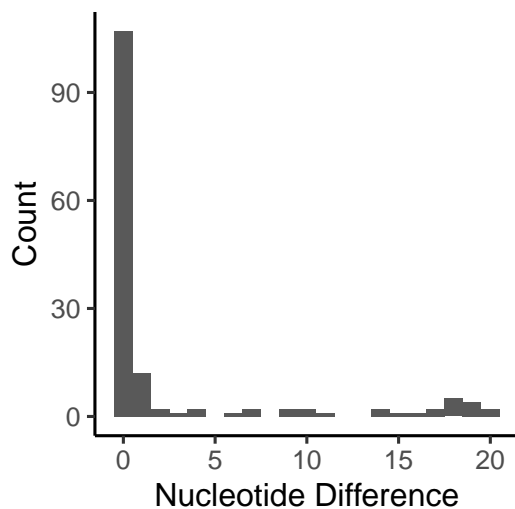
IGHV2–26*01

35 sequences assigned
20 (57.1%) exact matches, in which:
20 unique CDR3
6 unique J



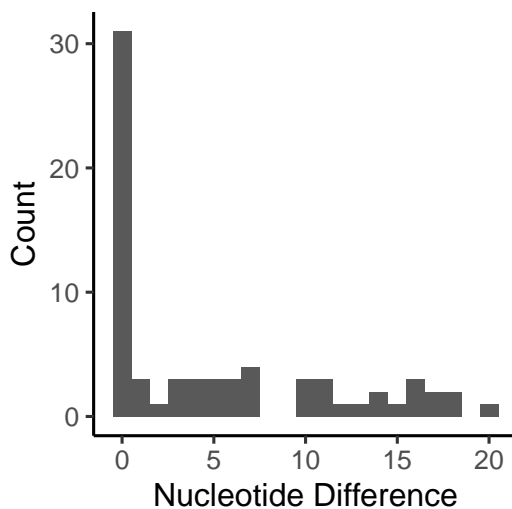
IGHV1–69*10

173 sequences assigned
107 (61.8%) exact matches, in which:
103 unique CDR3
6 unique J



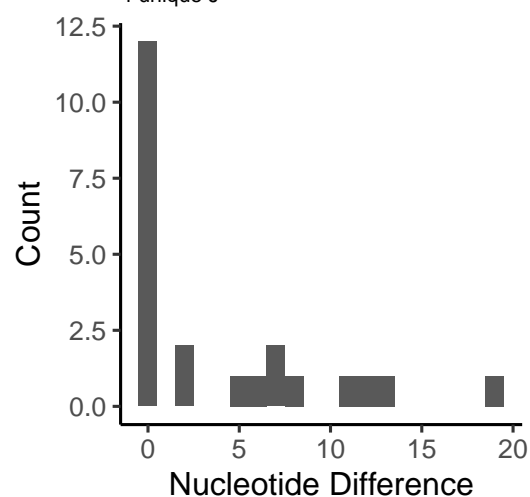
IGHV2–5*02

83 sequences assigned
31 (37.3%) exact matches, in which:
31 unique CDR3
4 unique J



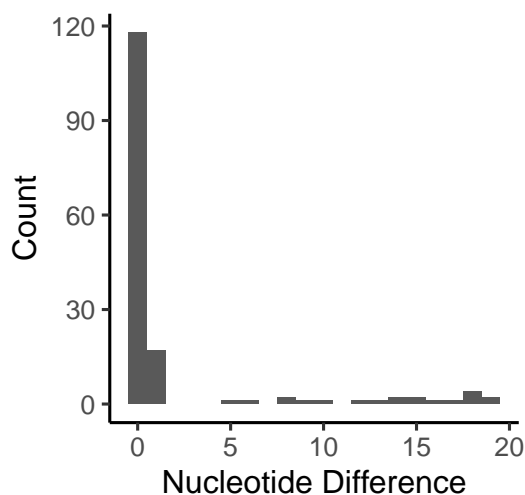
IGHV2–70*15

25 sequences assigned
12 (48%) exact matches, in which:
12 unique CDR3
4 unique J



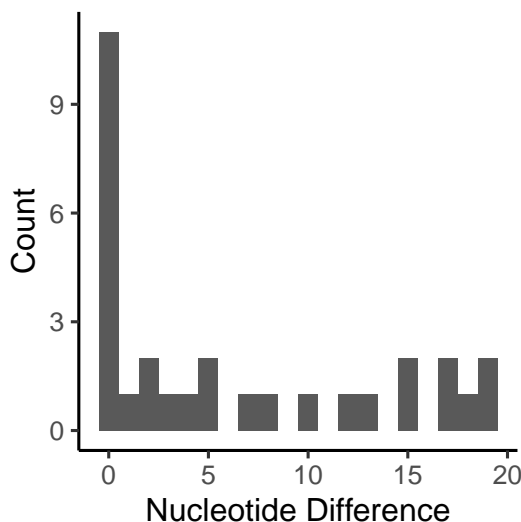
IGHV1–69*04_G48A_A16

178 sequences assigned
118 (66.3%) exact matches, in which:
118 unique CDR3
6 unique J



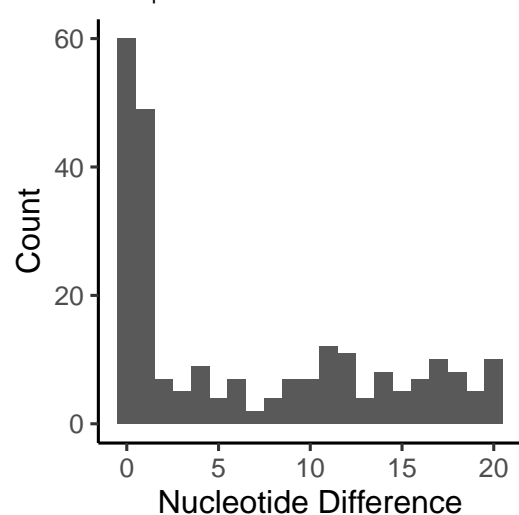
IGHV2–5*05

39 sequences assigned
11 (28.2%) exact matches, in which:
11 unique CDR3
4 unique J



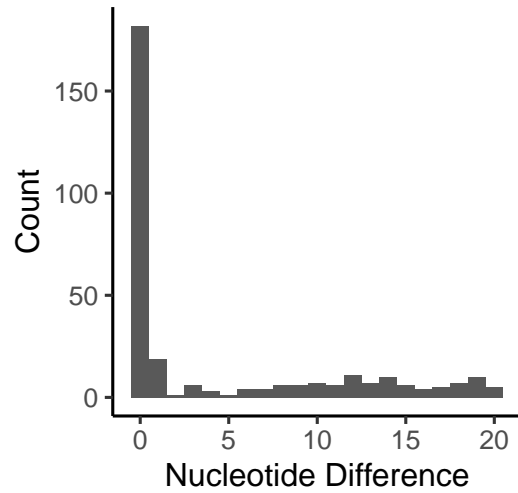
IGHV3–7*01

293 sequences assigned
60 (20.5%) exact matches, in which:
60 unique CDR3
6 unique J



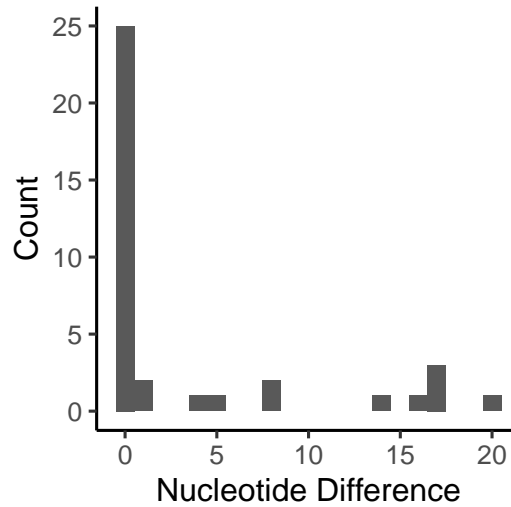
IGHV3-9*01

359 sequences assigned
182 (50.7%) exact matches, in which:
181 unique CDR3
7 unique J



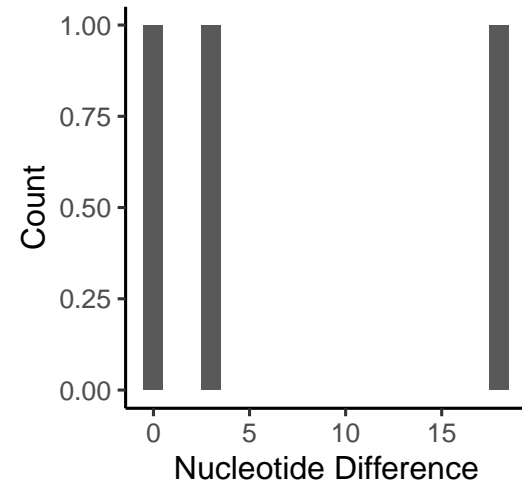
IGHV3-13*01

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



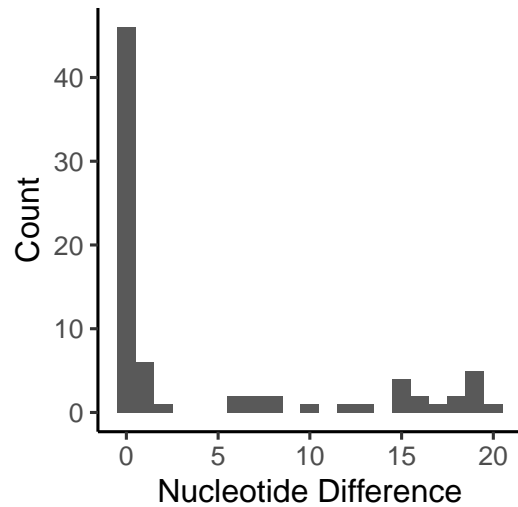
IGHV3-20*04

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



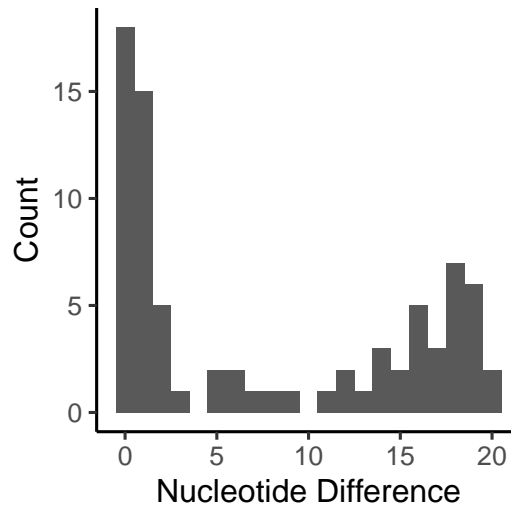
IGHV3-11*01

94 sequences assigned
46 (48.9%) exact matches, in which:
46 unique CDR3
5 unique J



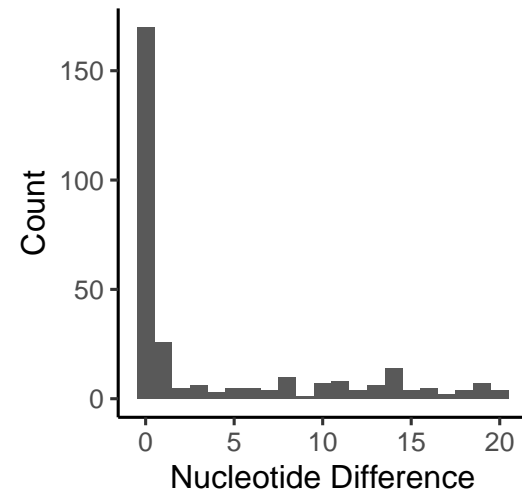
IGHV3-15*01

131 sequences assigned
18 (13.7%) exact matches, in which:
18 unique CDR3
3 unique J



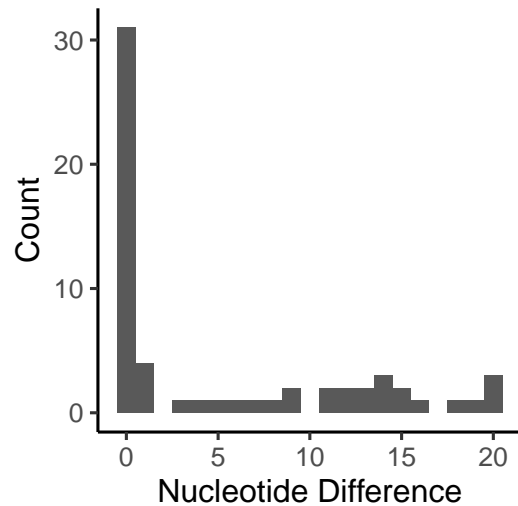
IGHV3-21*01

354 sequences assigned
170 (48%) exact matches, in which:
170 unique CDR3
7 unique J



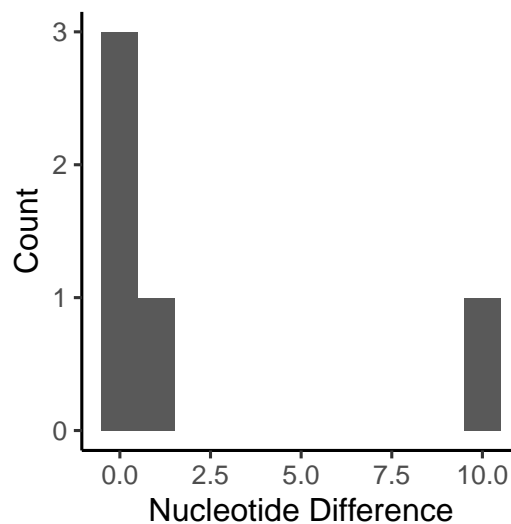
IGHV3-11*04

69 sequences assigned
31 (44.9%) exact matches, in which:
31 unique CDR3
5 unique J



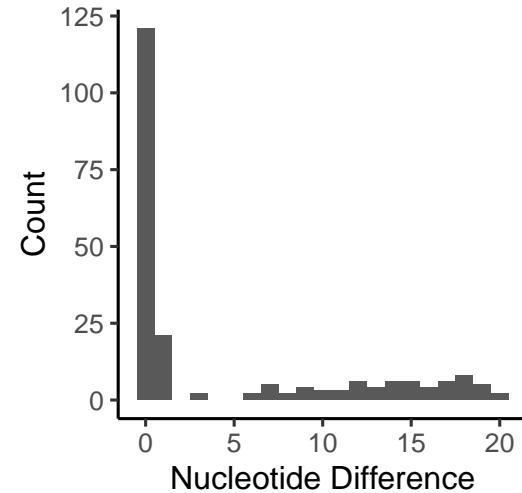
IGHV3-20*01

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
2 unique J



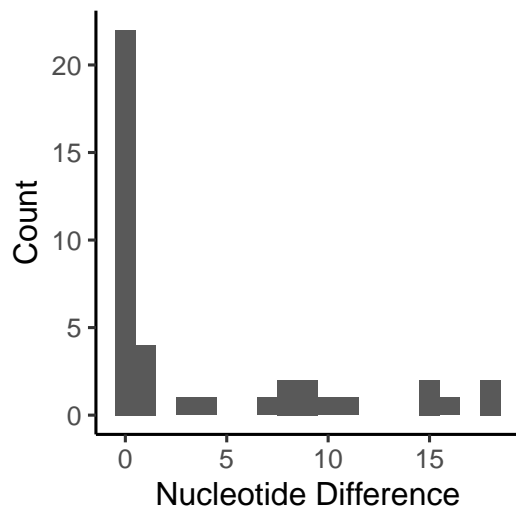
IGHV3-33*06

249 sequences assigned
121 (48.6%) exact matches, in which:
121 unique CDR3
7 unique J



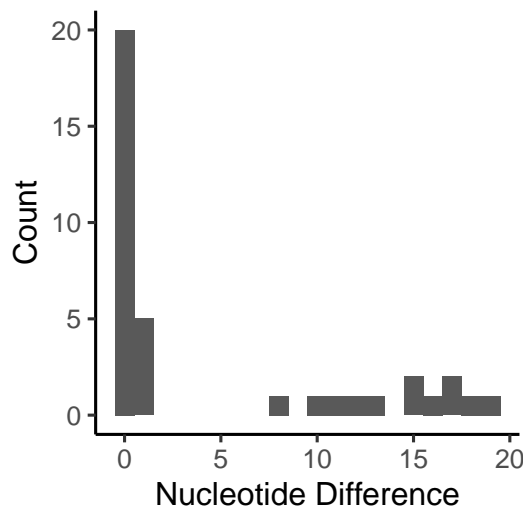
IGHV3-43*01

48 sequences assigned
22 (45.8%) exact matches, in which:
21 unique CDR3
5 unique J



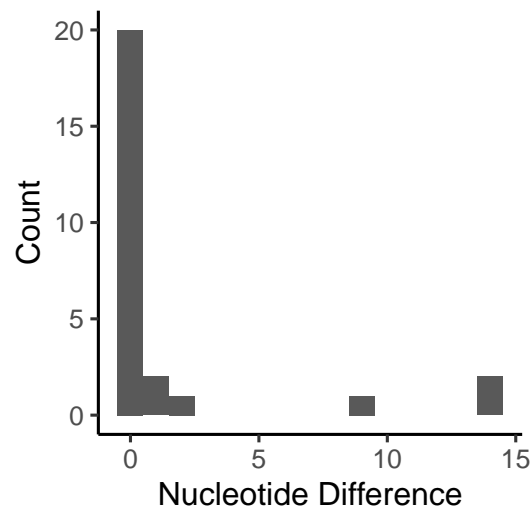
IGHV3-49*03

41 sequences assigned
20 (48.8%) exact matches, in which:
20 unique CDR3
4 unique J



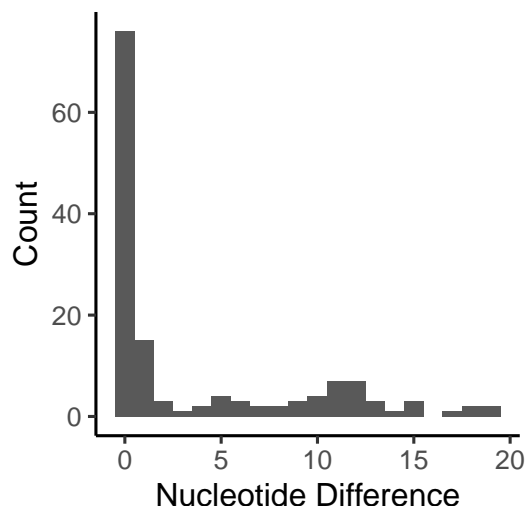
IGHV3-53*04

32 sequences assigned
20 (62.5%) exact matches, in which:
20 unique CDR3
5 unique J



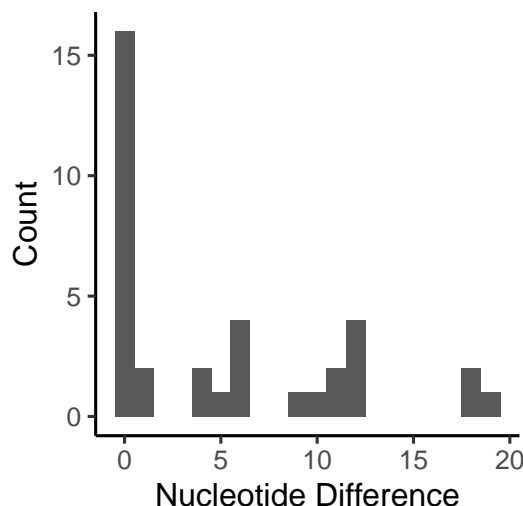
IGHV3-48*03

181 sequences assigned
76 (42%) exact matches, in which:
76 unique CDR3
6 unique J



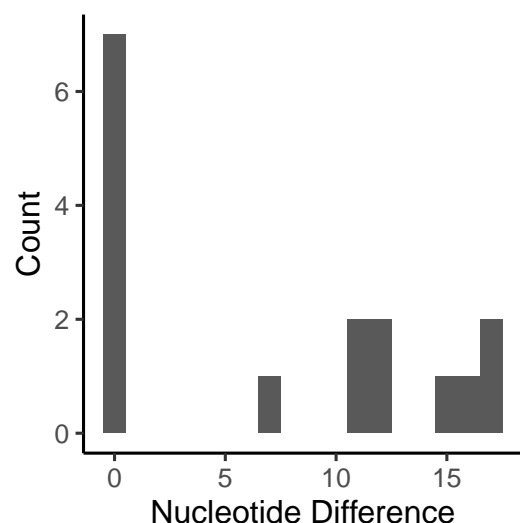
IGHV3-49*04

52 sequences assigned
16 (30.8%) exact matches, in which:
16 unique CDR3
4 unique J



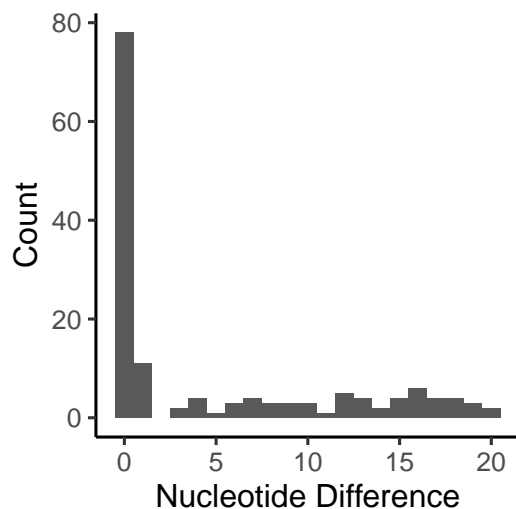
IGHV3-64*01

20 sequences assigned
7 (35%) exact matches, in which:
7 unique CDR3
5 unique J



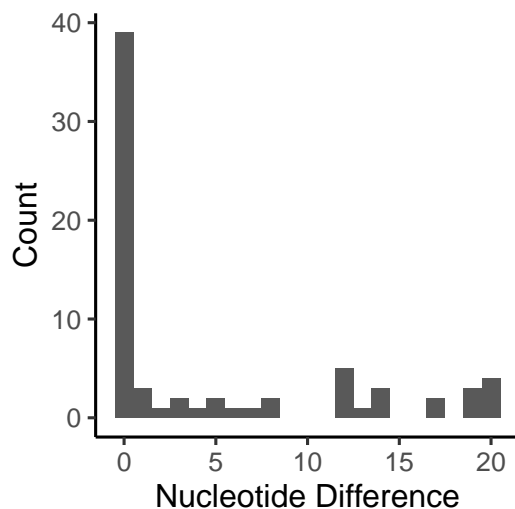
IGHV3-48*04

172 sequences assigned
78 (45.3%) exact matches, in which:
76 unique CDR3
6 unique J



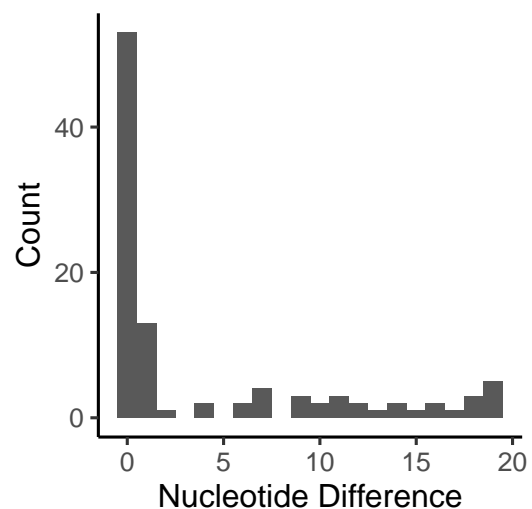
IGHV3-53*01

81 sequences assigned
39 (48.1%) exact matches, in which:
39 unique CDR3
5 unique J



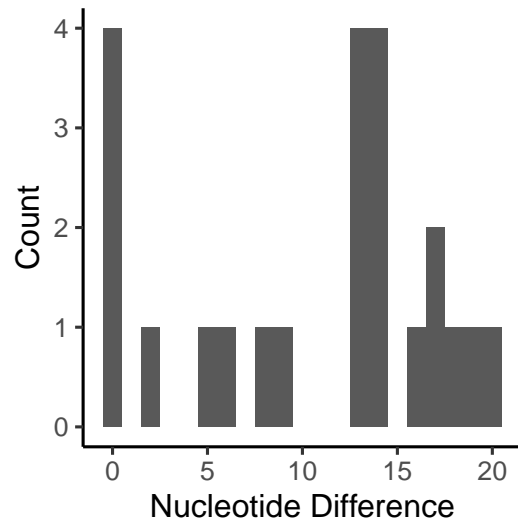
IGHV3-66*01

117 sequences assigned
53 (45.3%) exact matches, in which:
53 unique CDR3
4 unique J



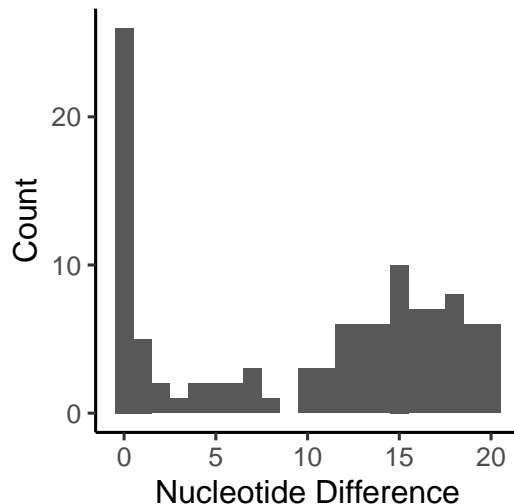
IGHV3-72*01

32 sequences assigned
4 (12.5%) exact matches, in which:
4 unique CDR3
3 unique J



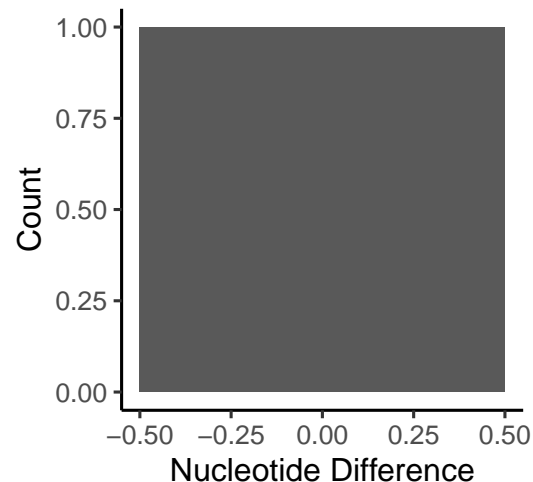
IGHV3-74*01

156 sequences assigned
26 (16.7%) exact matches, in which:
26 unique CDR3
4 unique J



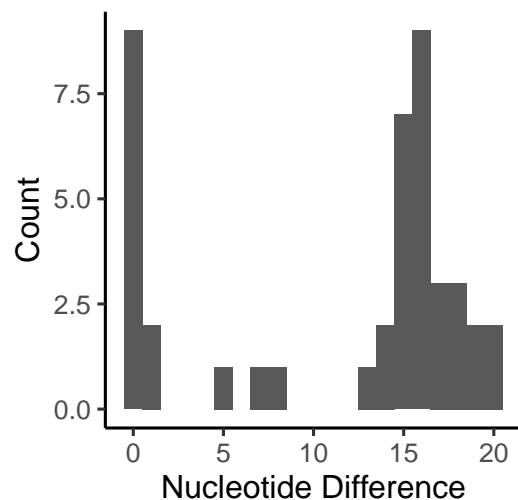
IGHV4-28*01

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



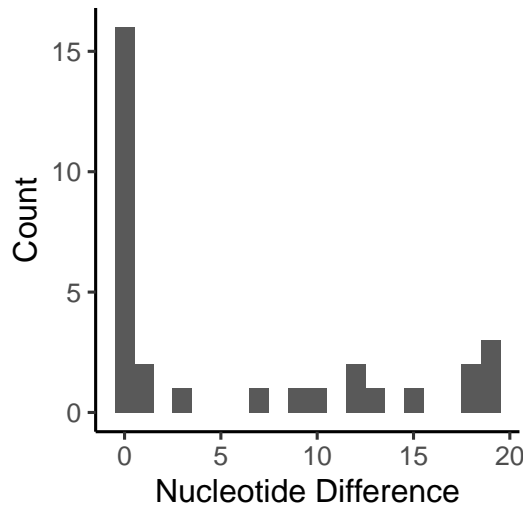
IGHV3-73*01

66 sequences assigned
9 (13.6%) exact matches, in which:
9 unique CDR3
2 unique J



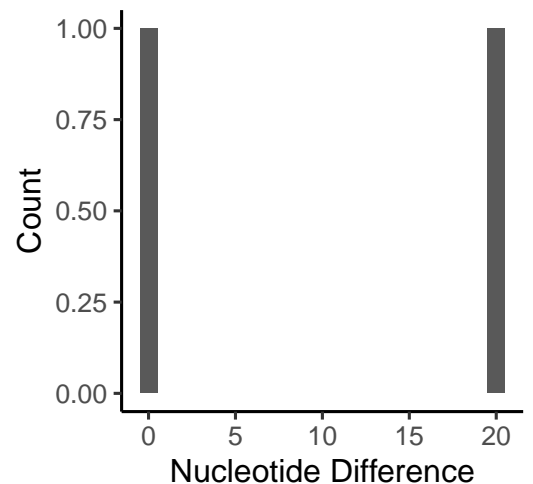
IGHV3-43D*03

32 sequences assigned
16 (50%) exact matches, in which:
16 unique CDR3
4 unique J



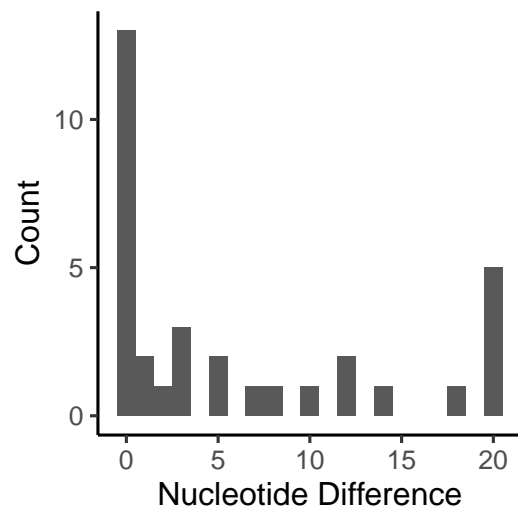
IGHV4-28*05

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



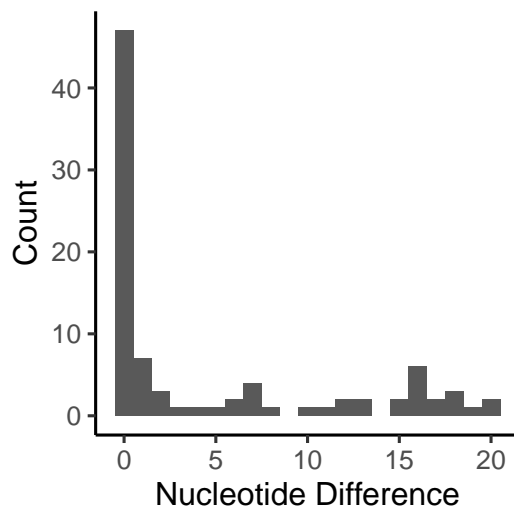
IGHV3-73*02

41 sequences assigned
13 (31.7%) exact matches, in which:
13 unique CDR3
3 unique J



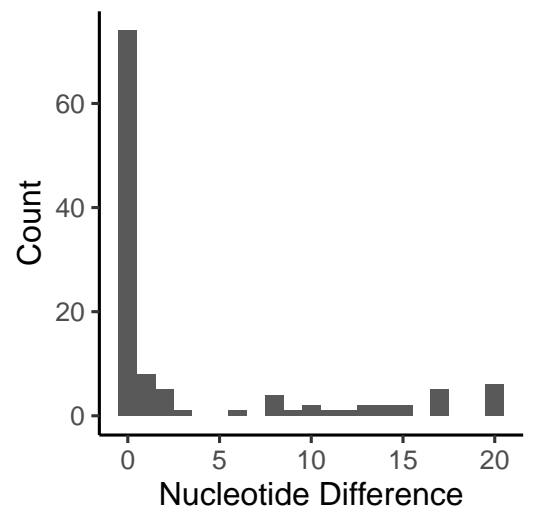
IGHV4-4*07

121 sequences assigned
47 (38.8%) exact matches, in which:
47 unique CDR3
6 unique J



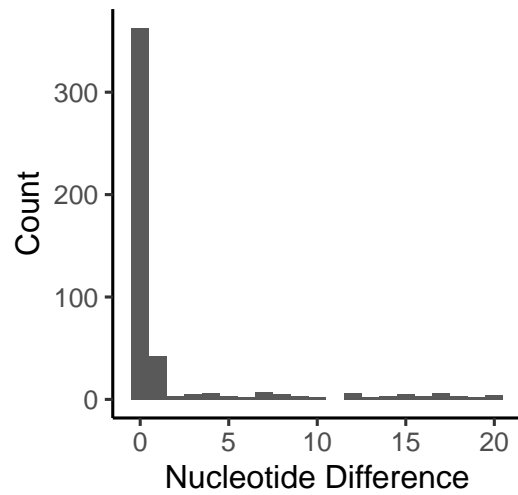
IGHV4-31*03

152 sequences assigned
74 (48.7%) exact matches, in which:
74 unique CDR3
6 unique J



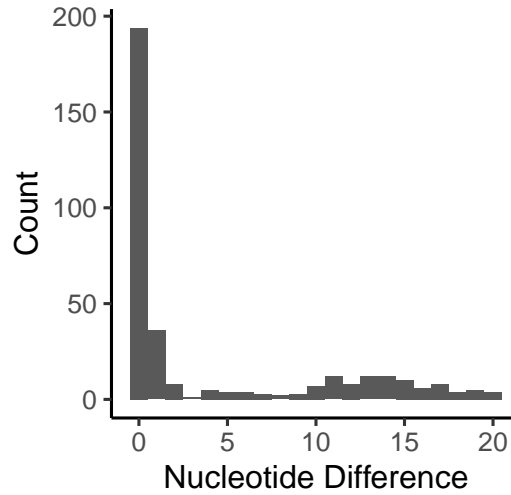
IGHV4-34*01

558 sequences assigned
363 (65.1%) exact matches, in which:
361 unique CDR3
7 unique J



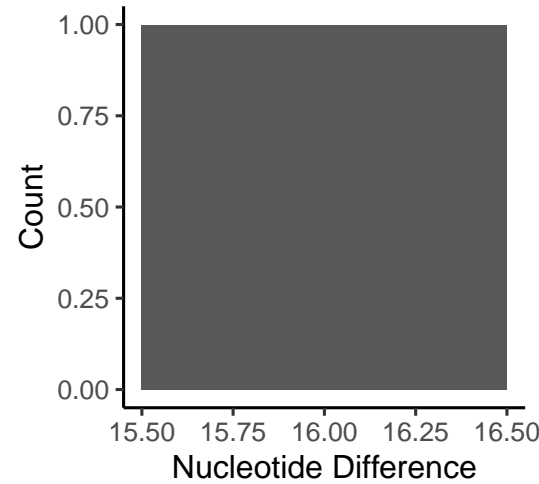
IGHV4-39*07

464 sequences assigned
194 (41.8%) exact matches, in which:
193 unique CDR3
6 unique J



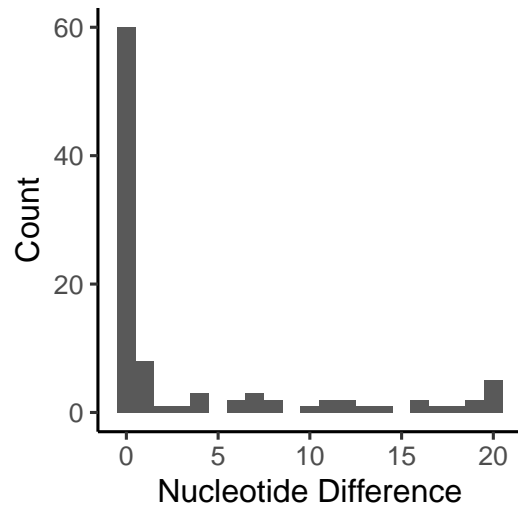
IGHV4-61*01

1 sequences assigned
No exact matches.



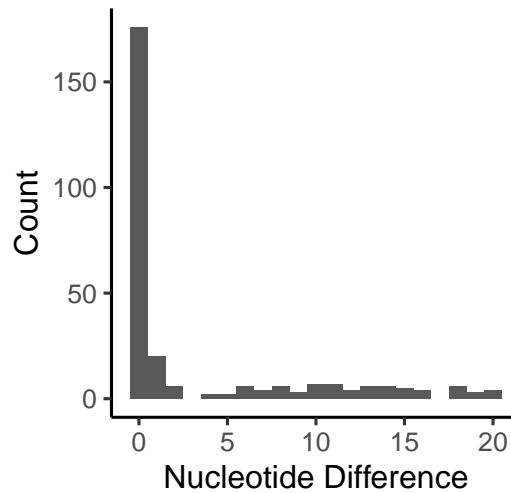
IGHV4-38-2*02

127 sequences assigned
60 (47.2%) exact matches, in which:
60 unique CDR3
6 unique J



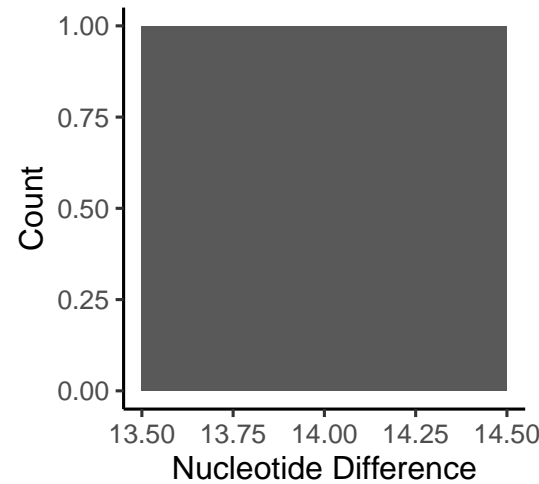
IGHV4-59*01

322 sequences assigned
176 (54.7%) exact matches, in which:
174 unique CDR3
7 unique J



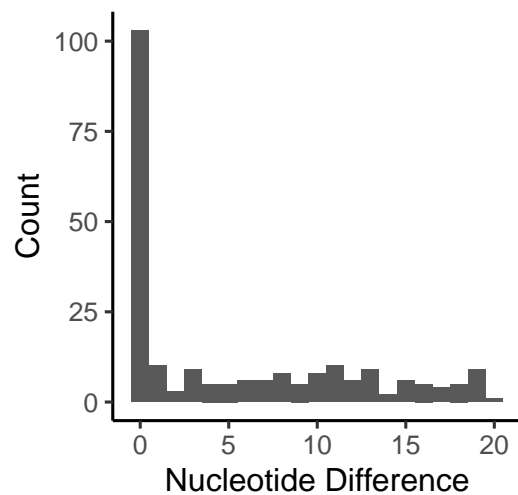
IGHV4-61*02

2 sequences assigned
No exact matches.



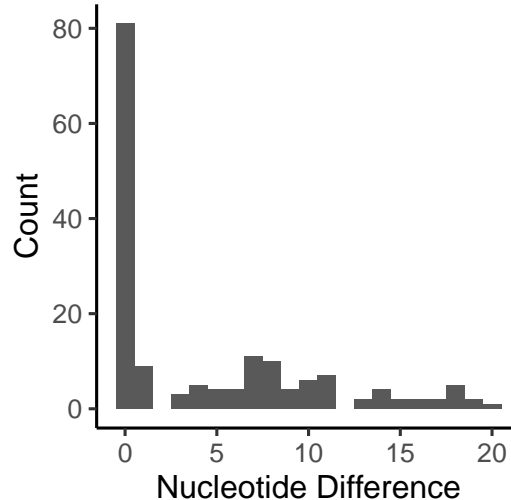
IGHV4-39*01

294 sequences assigned
103 (35%) exact matches, in which:
102 unique CDR3
6 unique J



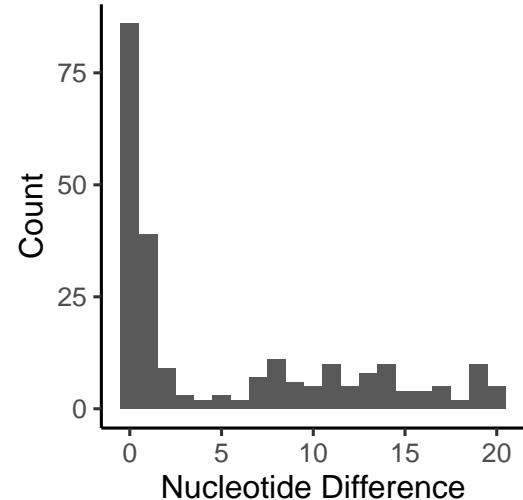
IGHV4-59*08

191 sequences assigned
81 (42.4%) exact matches, in which:
81 unique CDR3
6 unique J



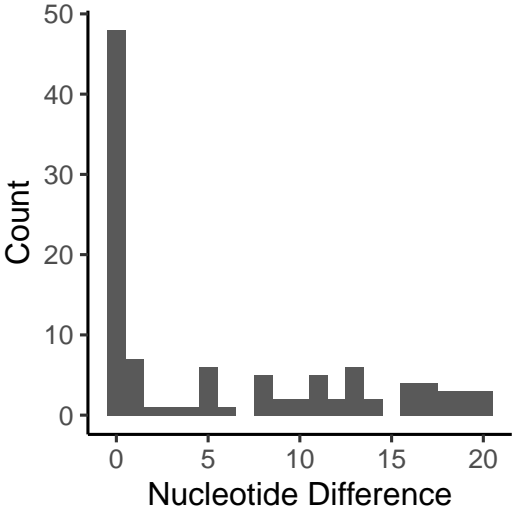
IGHV5-51*01

284 sequences assigned
86 (30.3%) exact matches, in which:
85 unique CDR3
6 unique J



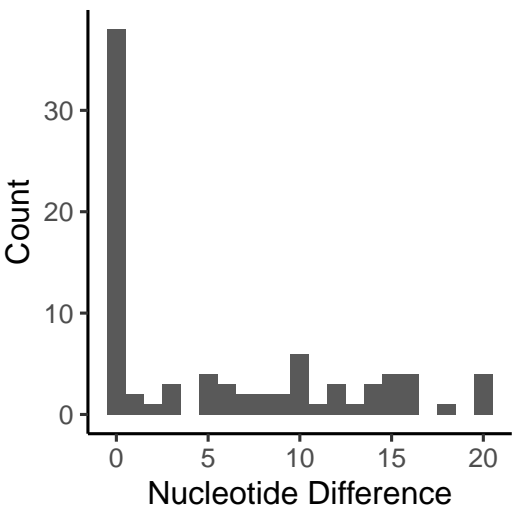
IGHV5-51*03

130 sequences assigned
48 (36.9%) exact matches, in which:
48 unique CDR3
5 unique J

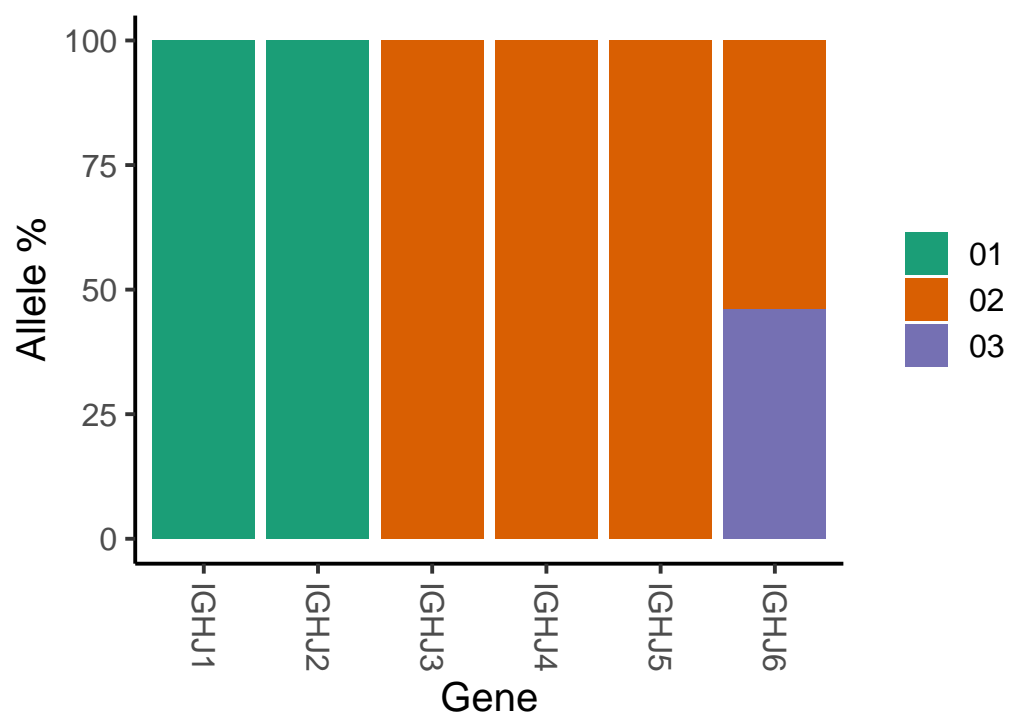


IGHV6-1*01

97 sequences assigned
38 (39.2%) exact matches, in which:
38 unique CDR3
6 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage

