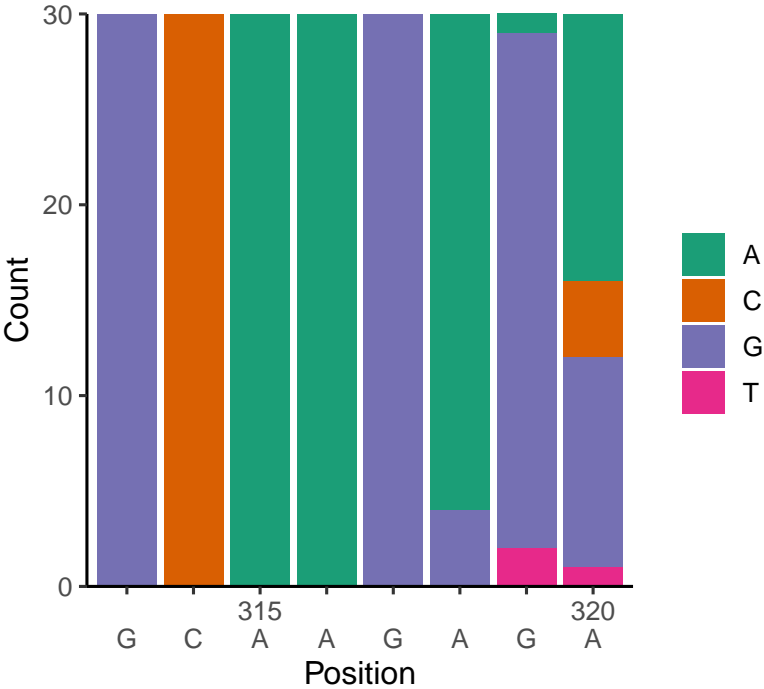
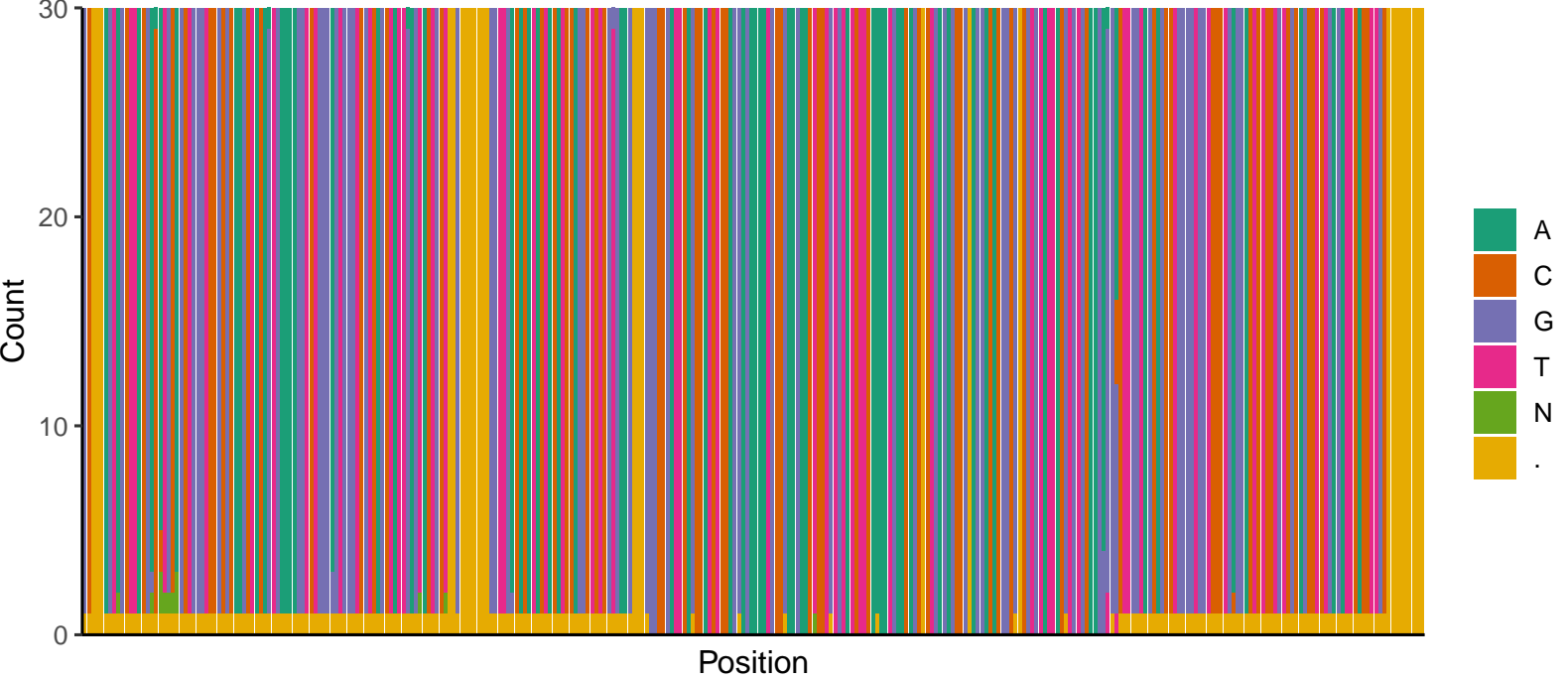


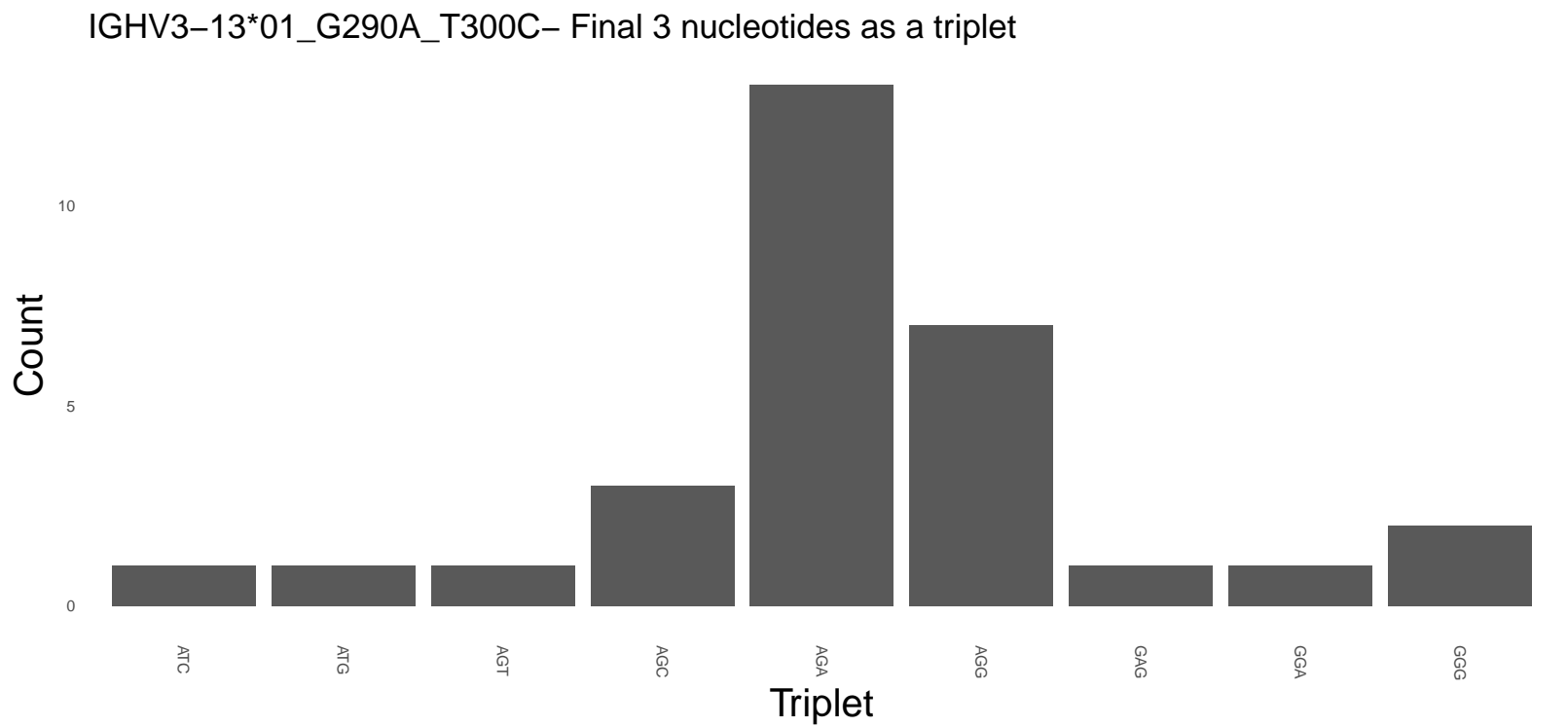
Gene IGHV3-13*01_G290A_T300C



Gene IGHV3-13*01_G290A_T300C

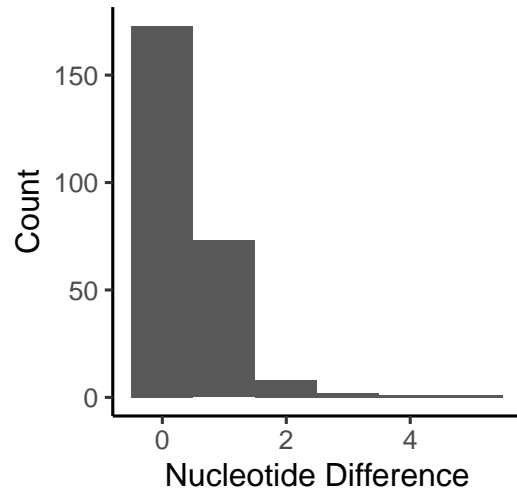


IGHV3-13*01_G290A_T300C- Final 3 nucleotides as a triplet



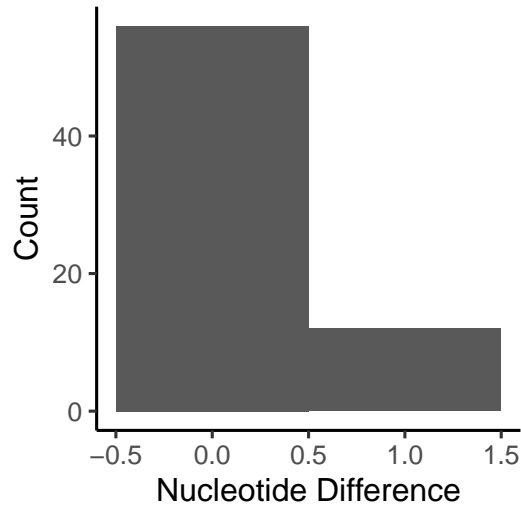
IGHV1-2*02

258 sequences assigned
173 (67.1%) exact matches, in which:
172 unique CDR3
7 unique J



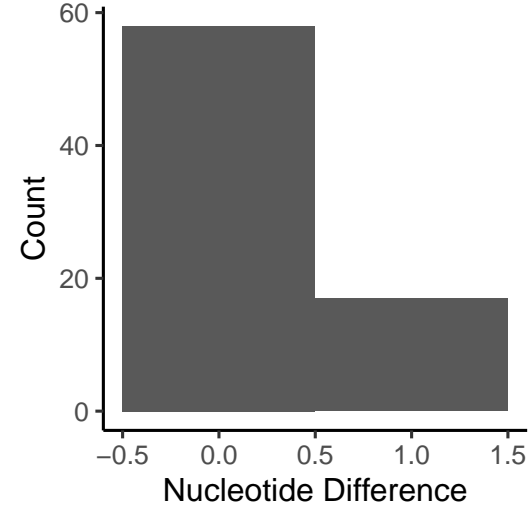
IGHV1-18*04

68 sequences assigned
56 (82.4%) exact matches, in which:
56 unique CDR3
5 unique J



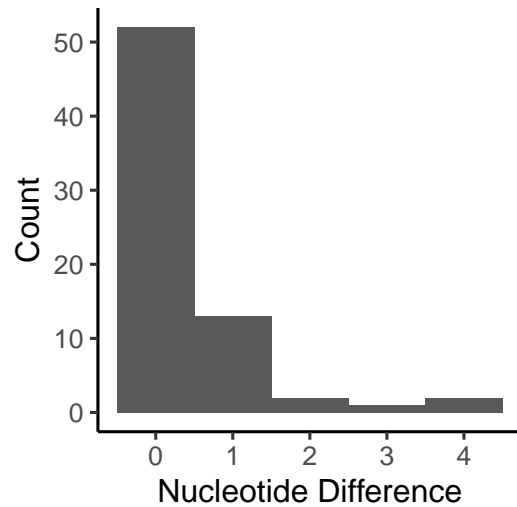
IGHV1-46*01

75 sequences assigned
58 (77.3%) exact matches, in which:
58 unique CDR3
5 unique J



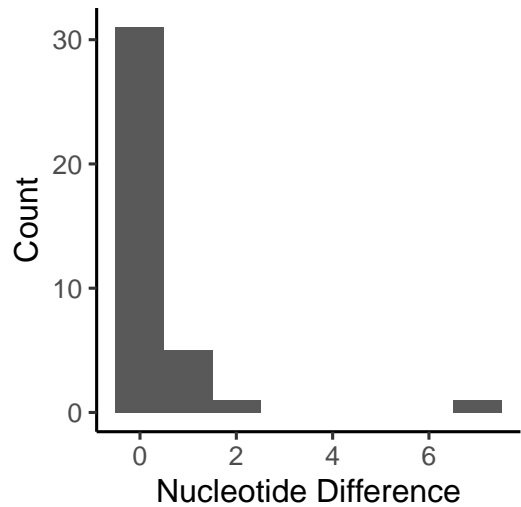
IGHV1-3*01

70 sequences assigned
52 (74.3%) exact matches, in which:
52 unique CDR3
5 unique J



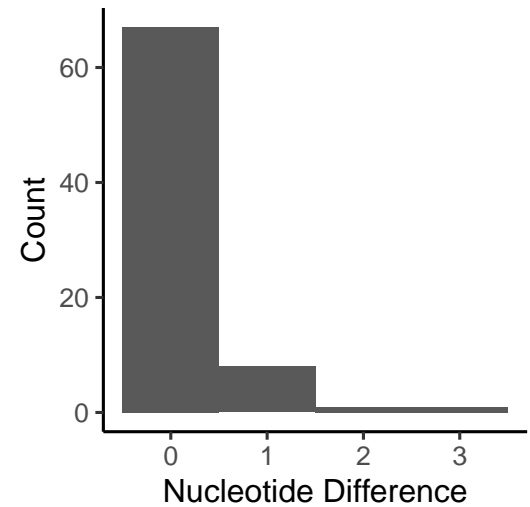
IGHV1-24*01

38 sequences assigned
31 (81.6%) exact matches, in which:
30 unique CDR3
6 unique J



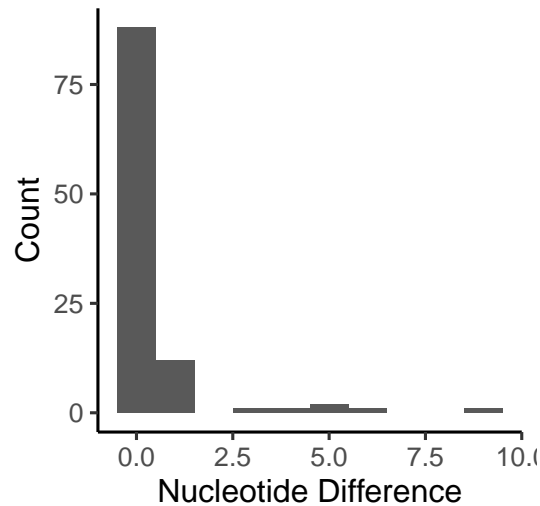
IGHV1-46*03

77 sequences assigned
67 (87%) exact matches, in which:
67 unique CDR3
6 unique J



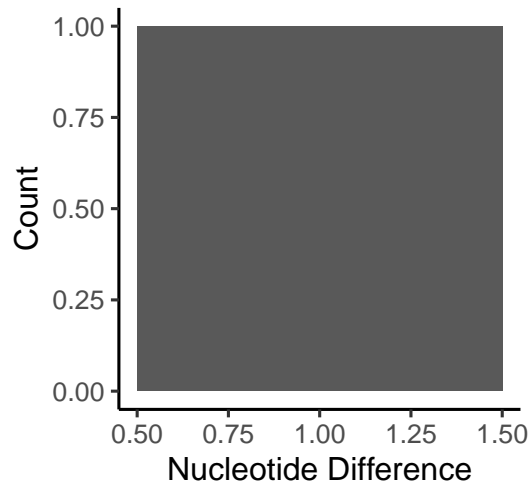
IGHV1-18*01

106 sequences assigned
88 (83%) exact matches, in which:
88 unique CDR3
6 unique J



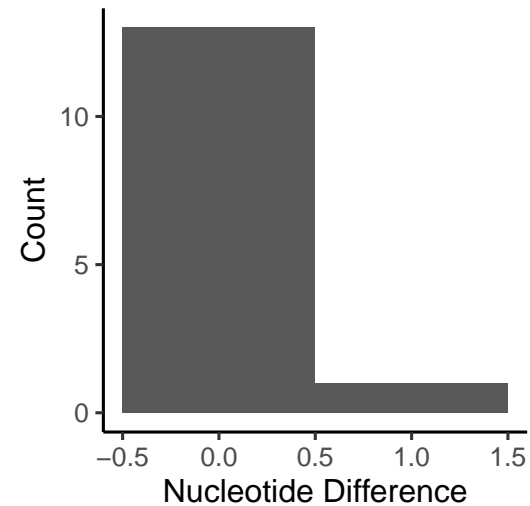
IGHV1-45*02

1 sequences assigned
No exact matches.



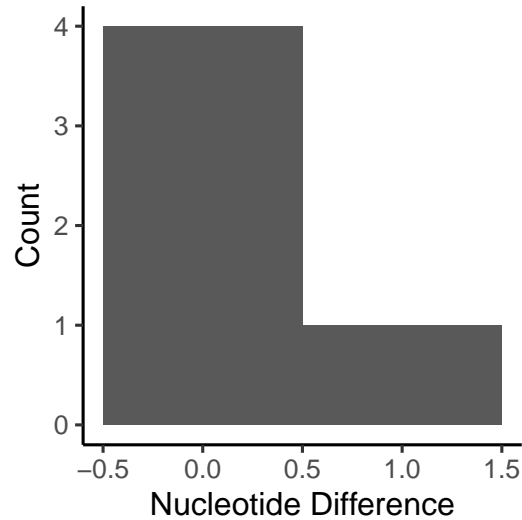
IGHV1-58*01

14 sequences assigned
13 (92.9%) exact matches, in which:
13 unique CDR3
5 unique J



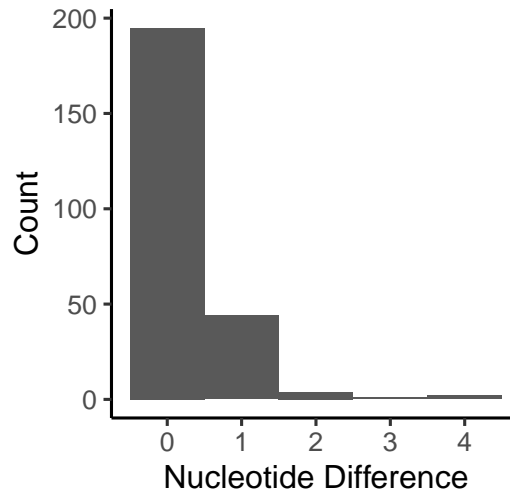
IGHV1-58*02

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
3 unique J



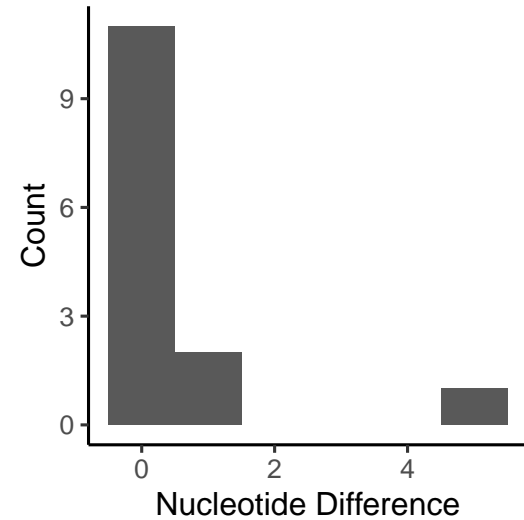
IGHV1-69*06

246 sequences assigned
195 (79.3%) exact matches, in which:
195 unique CDR3
7 unique J



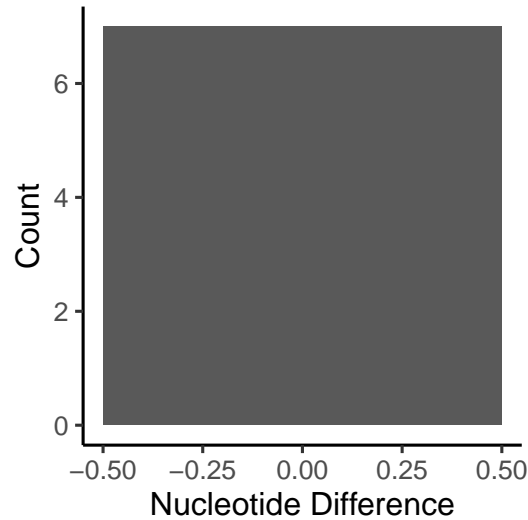
IGHV2-70*01

14 sequences assigned
11 (78.6%) exact matches, in which:
11 unique CDR3
4 unique J



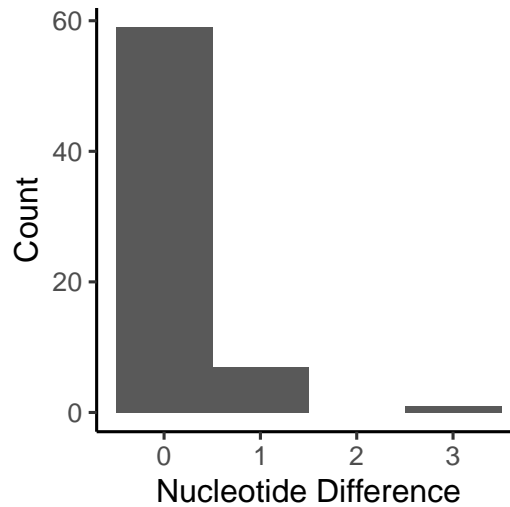
IGHV1-69-2*01

7 sequences assigned
7 (100%) exact matches, in which:
7 unique CDR3
2 unique J



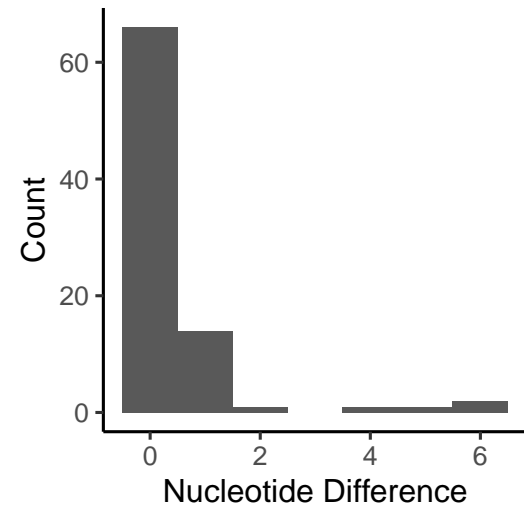
IGHV2-5*01

67 sequences assigned
59 (88.1%) exact matches, in which:
59 unique CDR3
7 unique J



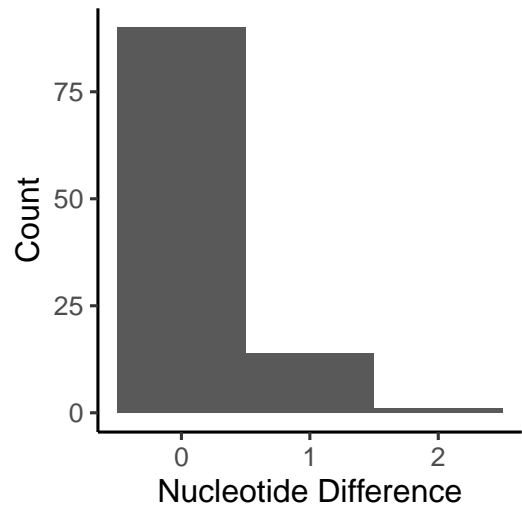
IGHV3-7*05

85 sequences assigned
66 (77.6%) exact matches, in which:
65 unique CDR3
7 unique J



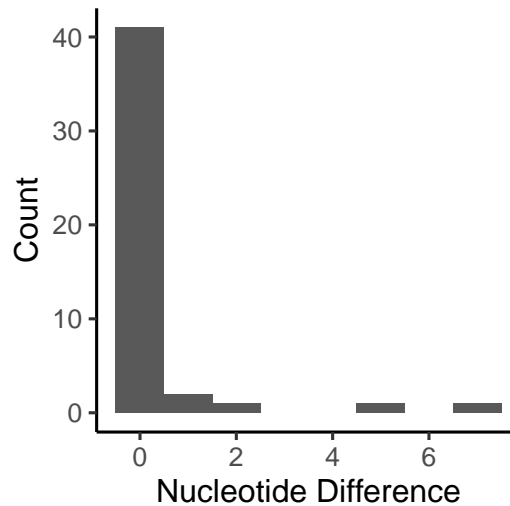
IGHV1-69*02

105 sequences assigned
90 (85.7%) exact matches, in which:
90 unique CDR3
6 unique J



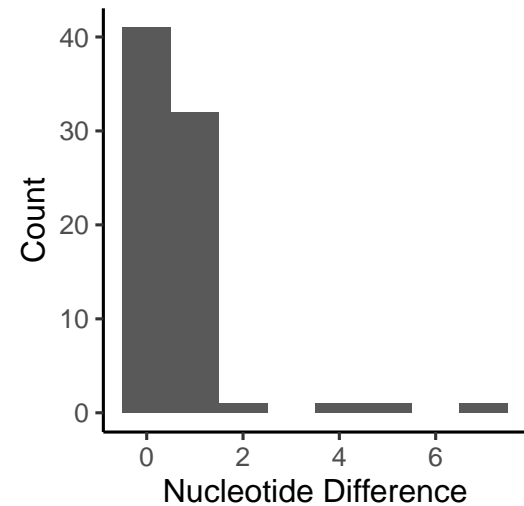
IGHV2-26*01

46 sequences assigned
41 (89.1%) exact matches, in which:
40 unique CDR3
6 unique J



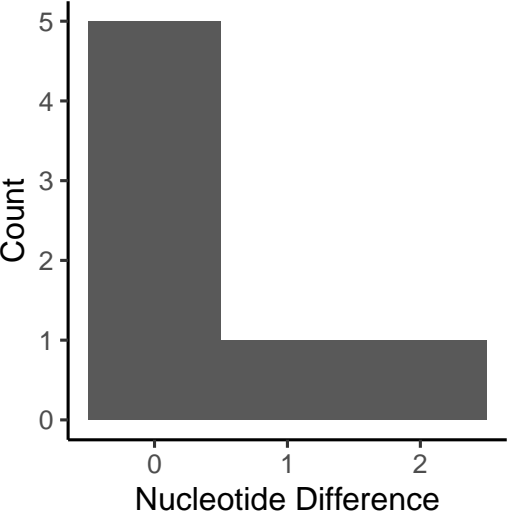
IGHV3-11*06

77 sequences assigned
41 (53.2%) exact matches, in which:
41 unique CDR3
6 unique J



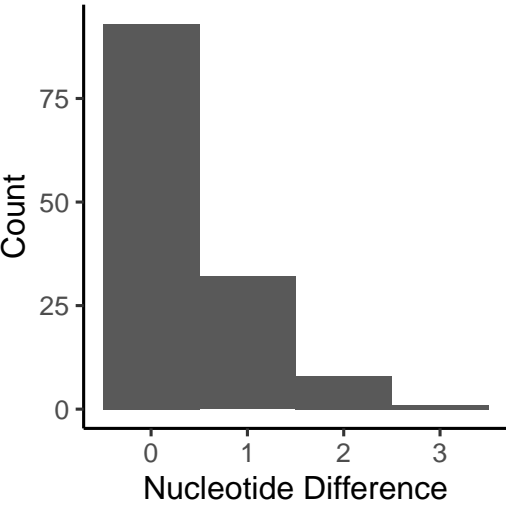
IGHV3-13*05

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



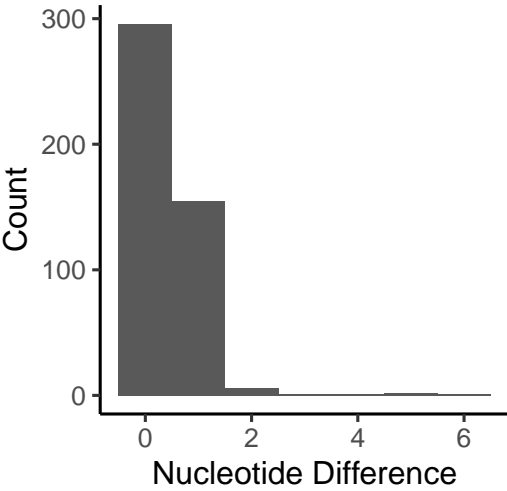
IGHV3-15*07

134 sequences assigned
93 (69.4%) exact matches, in which:
93 unique CDR3
6 unique J



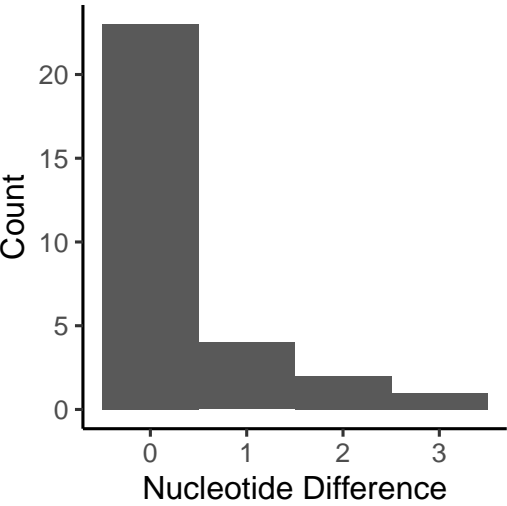
IGHV3-30-3*01

462 sequences assigned
296 (64.1%) exact matches, in which:
295 unique CDR3
7 unique J



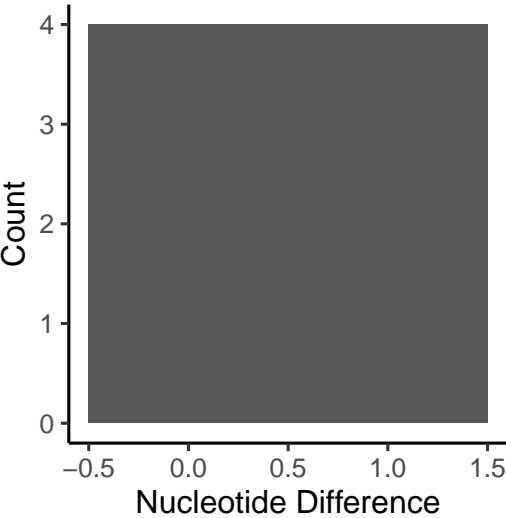
IGHV3-13*01_G290A_T3I

30 sequences assigned
23 (76.7%) exact matches, in which:
23 unique CDR3
4 unique J



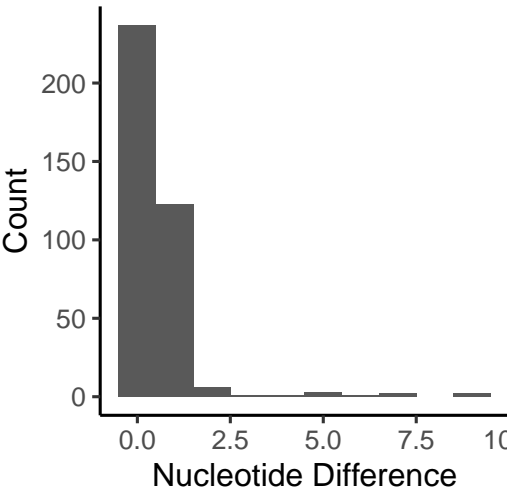
IGHV3-20*04

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



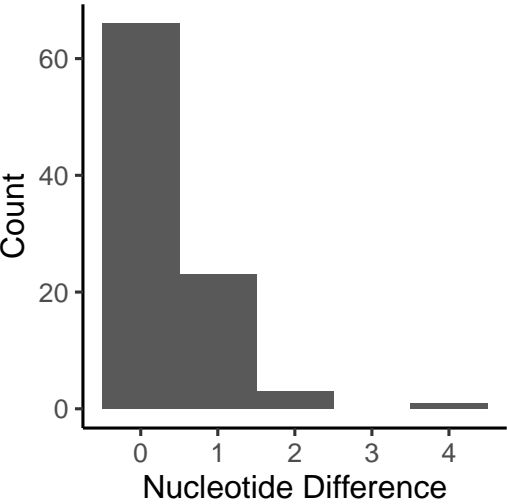
IGHV3-30*03

376 sequences assigned
237 (63%) exact matches, in which:
237 unique CDR3
7 unique J



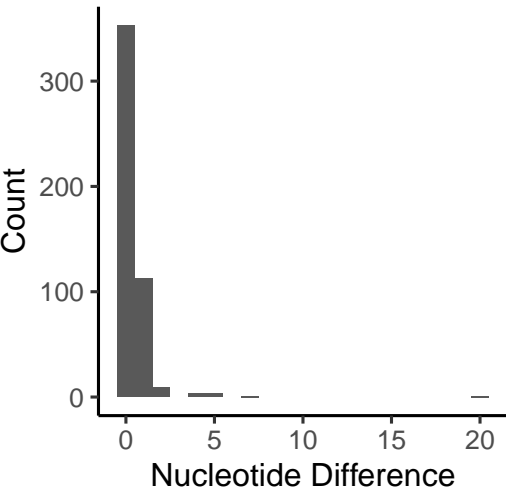
IGHV3-15*01

93 sequences assigned
66 (71%) exact matches, in which:
66 unique CDR3
6 unique J



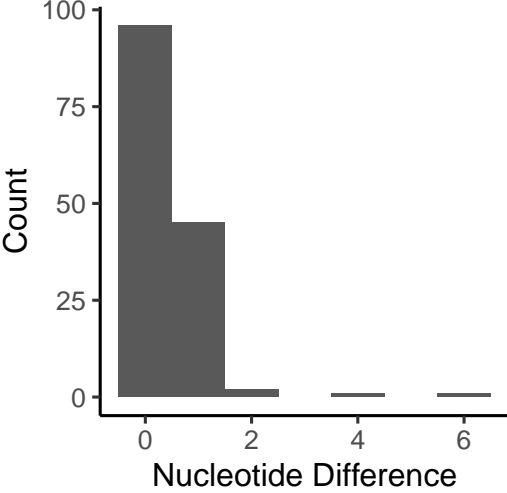
IGHV3-21*01

483 sequences assigned
353 (73.1%) exact matches, in which:
352 unique CDR3
7 unique J



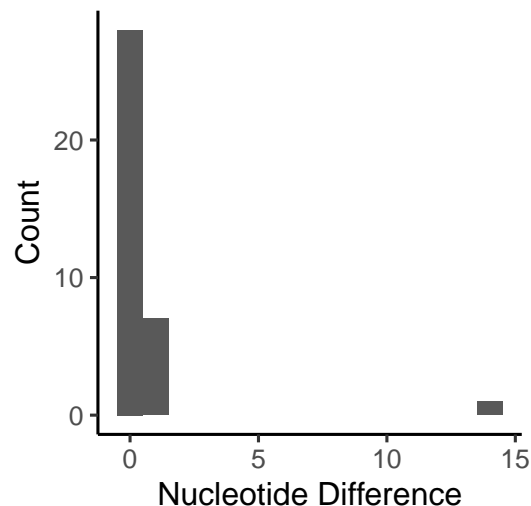
IGHV3-33*01

146 sequences assigned
96 (65.8%) exact matches, in which:
96 unique CDR3
5 unique J



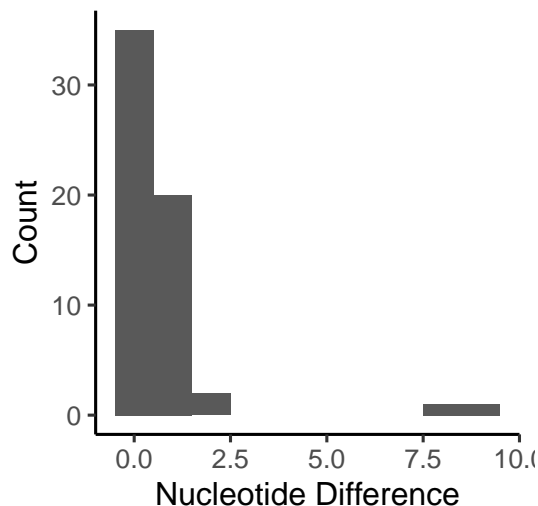
IGHV3-43*01

36 sequences assigned
28 (77.8%) exact matches, in which:
28 unique CDR3
4 unique J



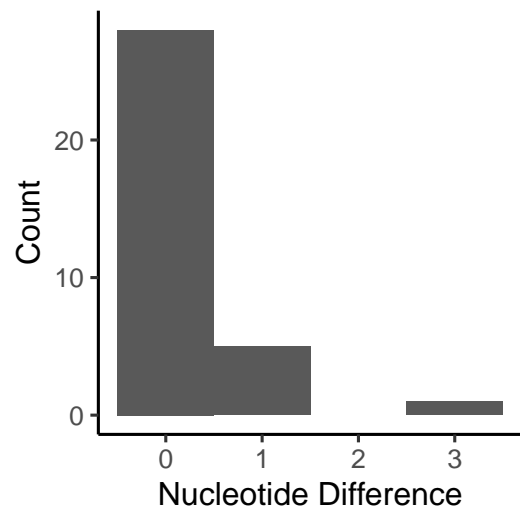
IGHV3-49*03

59 sequences assigned
35 (59.3%) exact matches, in which:
35 unique CDR3
5 unique J



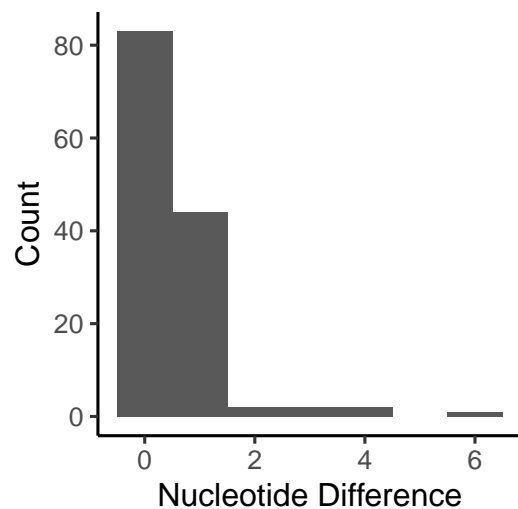
IGHV3-53*02

34 sequences assigned
28 (82.4%) exact matches, in which:
28 unique CDR3
5 unique J



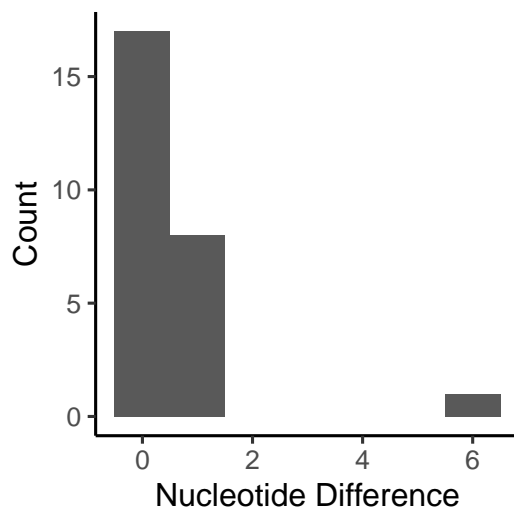
IGHV3-48*01

134 sequences assigned
83 (61.9%) exact matches, in which:
83 unique CDR3
7 unique J



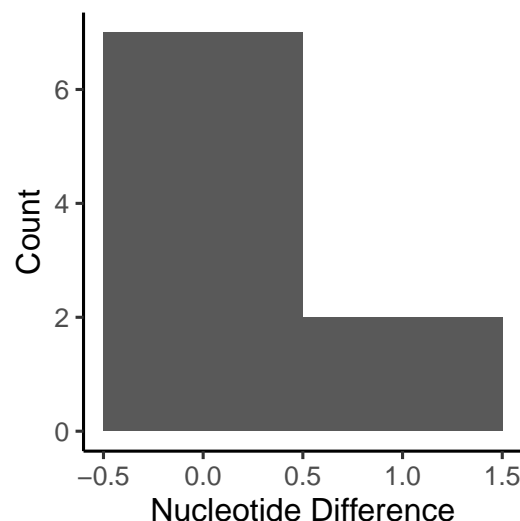
IGHV3-49*05

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



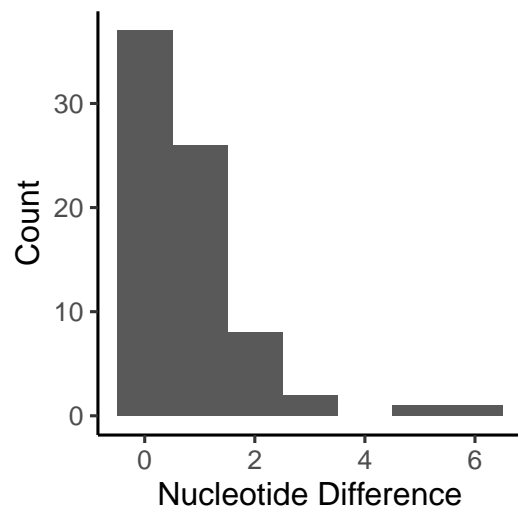
IGHV3-64*01

9 sequences assigned
7 (77.8%) exact matches, in which:
7 unique CDR3
5 unique J



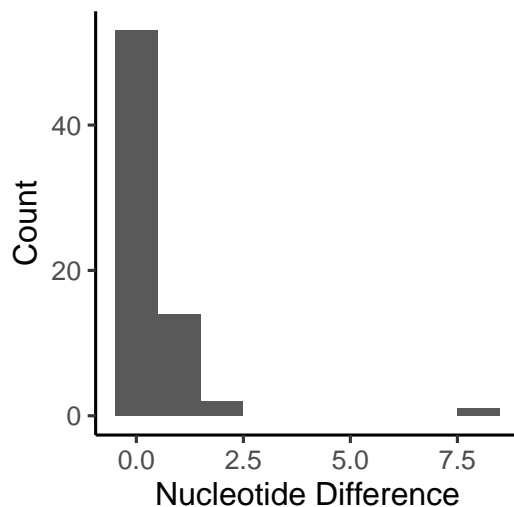
IGHV3-48*02

75 sequences assigned
37 (49.3%) exact matches, in which:
37 unique CDR3
5 unique J



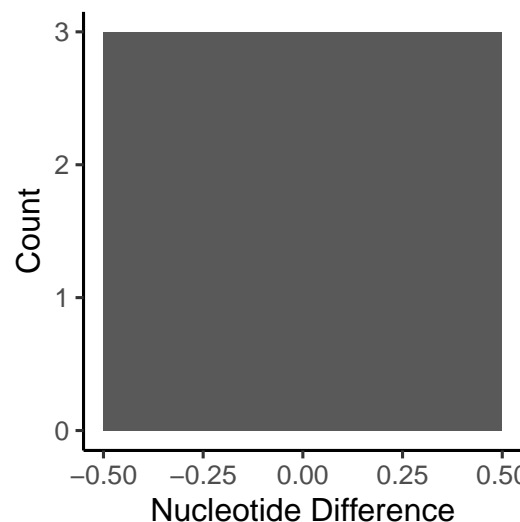
IGHV3-53*01

70 sequences assigned
53 (75.7%) exact matches, in which:
52 unique CDR3
6 unique J



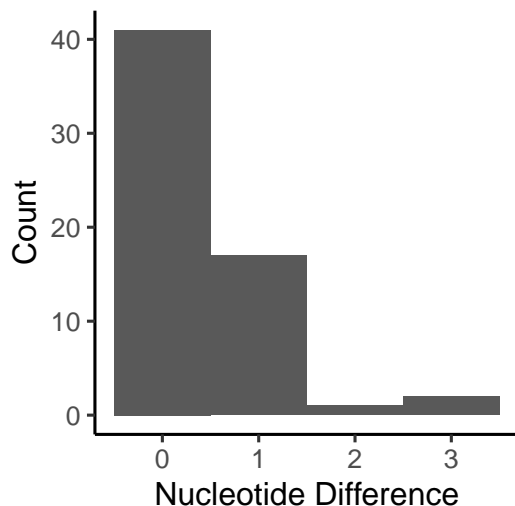
IGHV3-64*02

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



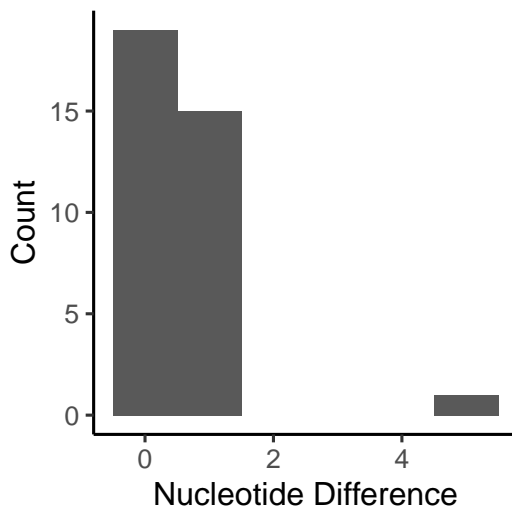
IGHV3-66*02

61 sequences assigned
41 (67.2%) exact matches, in which:
41 unique CDR3
5 unique J



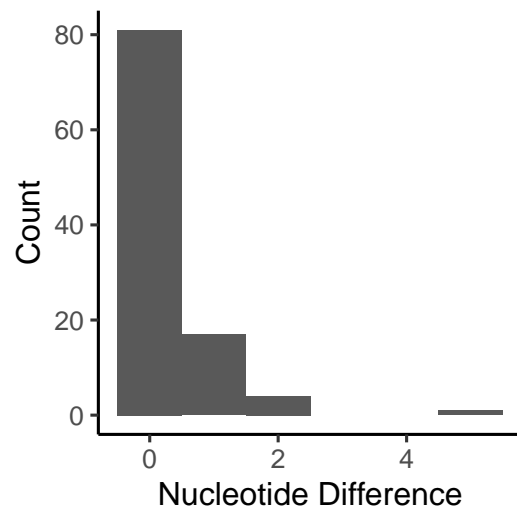
IGHV3-73*02

35 sequences assigned
19 (54.3%) exact matches, in which:
19 unique CDR3
3 unique J



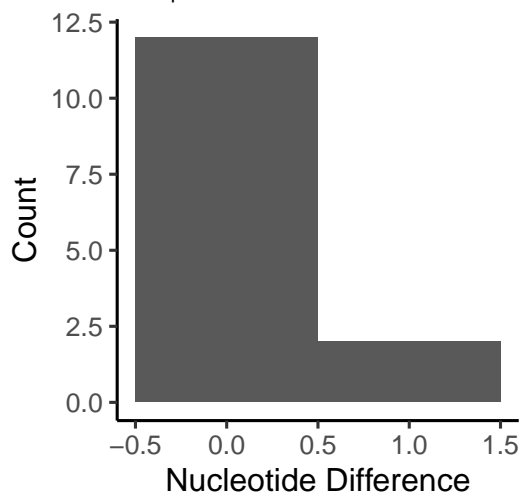
IGHV3-64D*08

103 sequences assigned
81 (78.6%) exact matches, in which:
80 unique CDR3
7 unique J



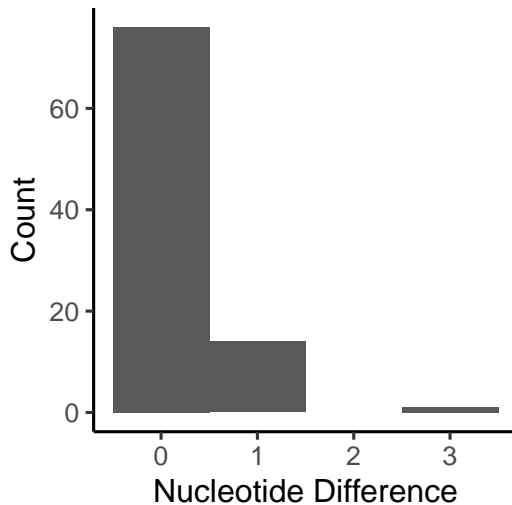
IGHV3-72*01

14 sequences assigned
12 (85.7%) exact matches, in which:
12 unique CDR3
5 unique J



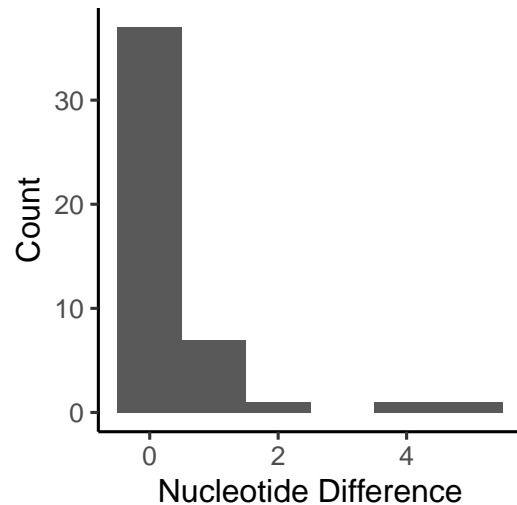
IGHV3-74*01

91 sequences assigned
76 (83.5%) exact matches, in which:
75 unique CDR3
7 unique J



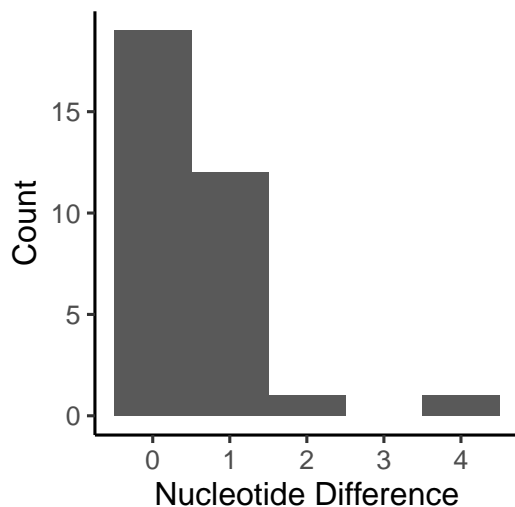
IGHV4-4*02

47 sequences assigned
37 (78.7%) exact matches, in which:
37 unique CDR3
7 unique J



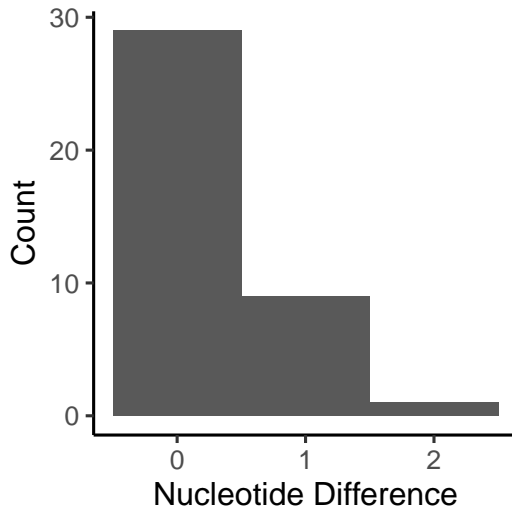
IGHV3-73*01

33 sequences assigned
19 (57.6%) exact matches, in which:
18 unique CDR3
5 unique J



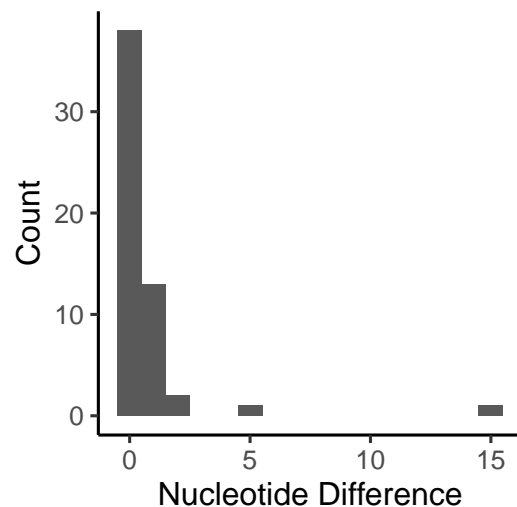
IGHV3-43D*03

39 sequences assigned
29 (74.4%) exact matches, in which:
29 unique CDR3
4 unique J



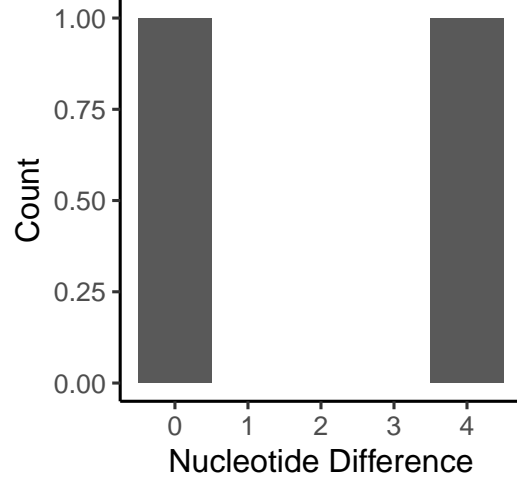
IGHV4-4*07

55 sequences assigned
38 (69.1%) exact matches, in which:
38 unique CDR3
6 unique J



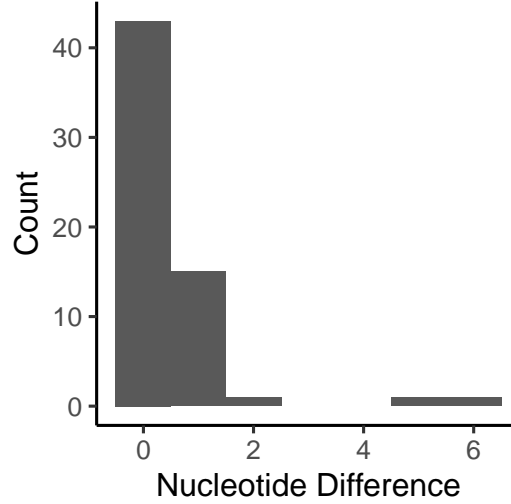
IGHV4-28*01

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



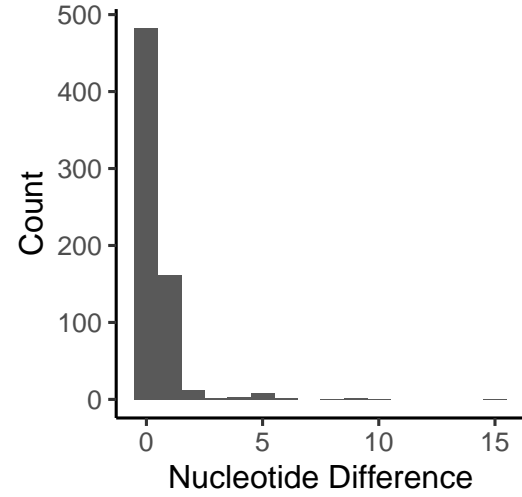
IGHV4-31*03

61 sequences assigned
43 (70.5%) exact matches, in which:
43 unique CDR3
5 unique J



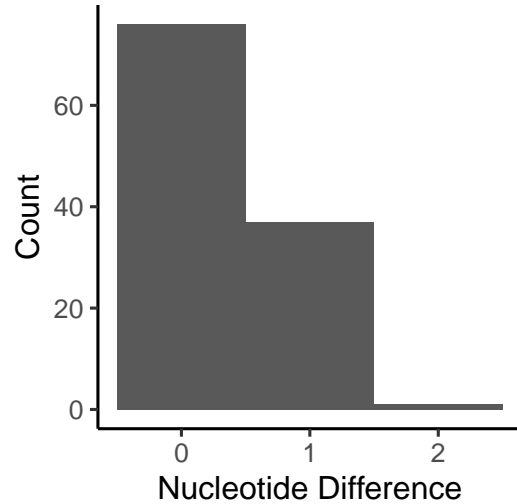
IGHV4-39*01

677 sequences assigned
483 (71.3%) exact matches, in which:
483 unique CDR3
7 unique J



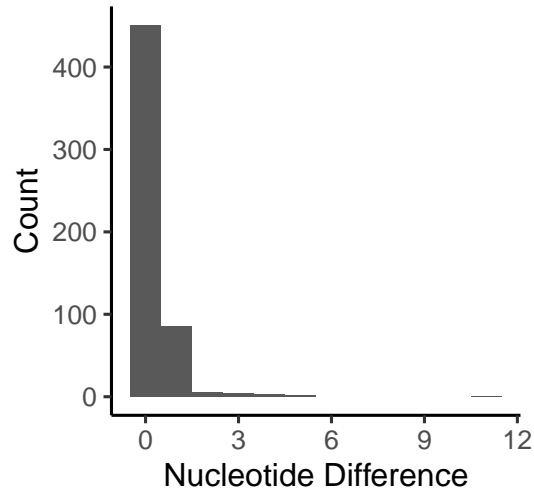
IGHV4-30-4*01

114 sequences assigned
76 (66.7%) exact matches, in which:
75 unique CDR3
6 unique J



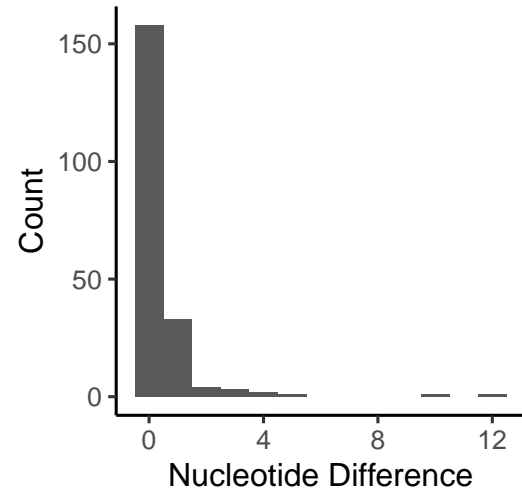
IGHV4-34*01

552 sequences assigned
451 (81.7%) exact matches, in which:
450 unique CDR3
7 unique J



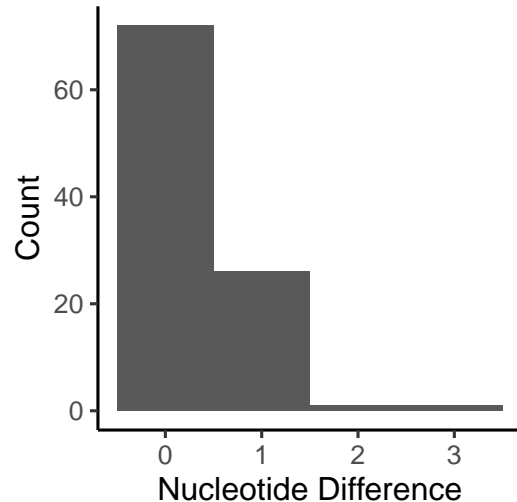
IGHV4-59*01

203 sequences assigned
158 (77.8%) exact matches, in which:
158 unique CDR3
7 unique J



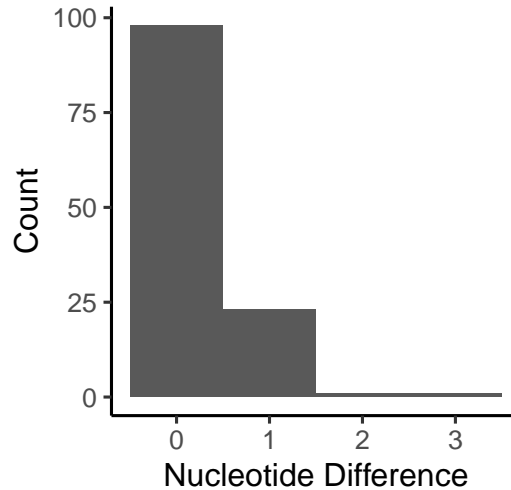
IGHV4-30-2*01

100 sequences assigned
72 (72%) exact matches, in which:
72 unique CDR3
7 unique J



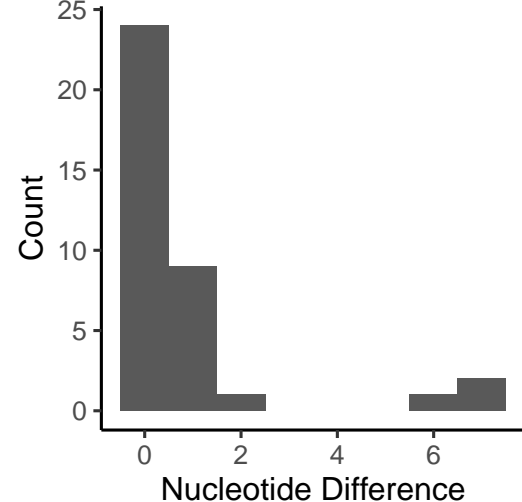
IGHV4-38-2*02

123 sequences assigned
98 (79.7%) exact matches, in which:
98 unique CDR3
6 unique J



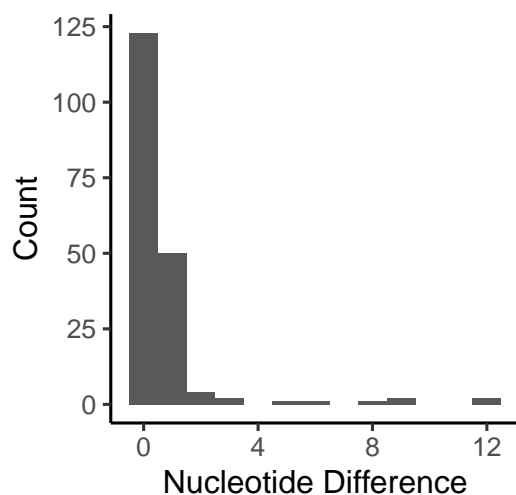
IGHV4-61*01

37 sequences assigned
24 (64.9%) exact matches, in which:
24 unique CDR3
6 unique J



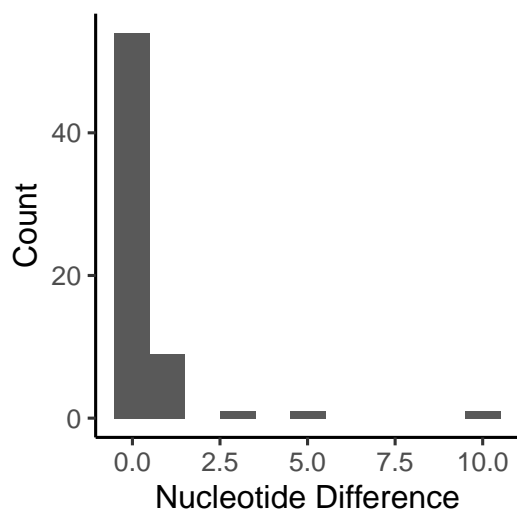
IGHV4-61*02

186 sequences assigned
123 (66.1%) exact matches, in which:
123 unique CDR3
6 unique J



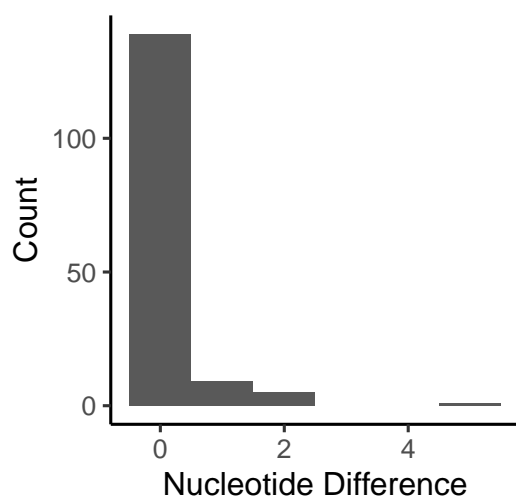
IGHV6-1*01

66 sequences assigned
54 (81.8%) exact matches, in which:
54 unique CDR3
6 unique J



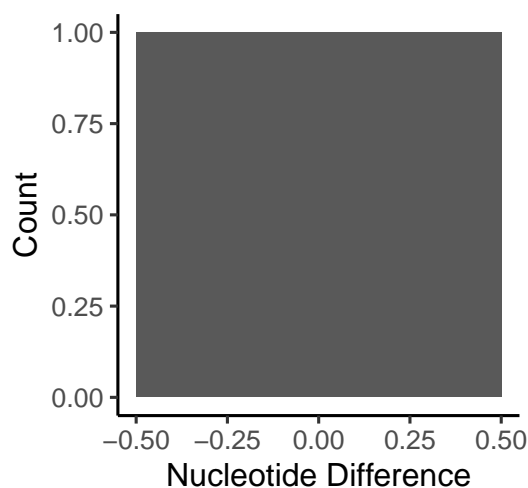
IGHV5-10-1*03

154 sequences assigned
139 (90.3%) exact matches, in which:
139 unique CDR3
7 unique J



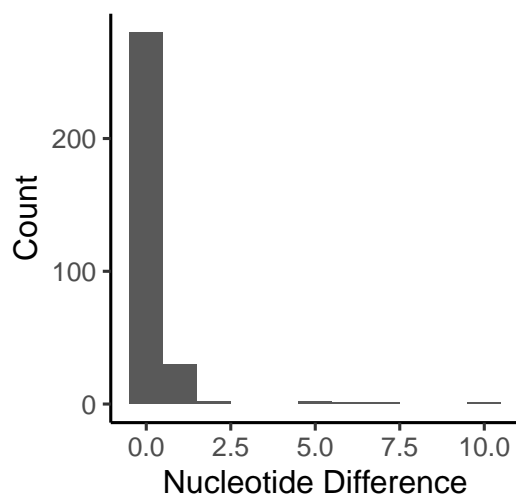
IGHV7-4-1*01

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

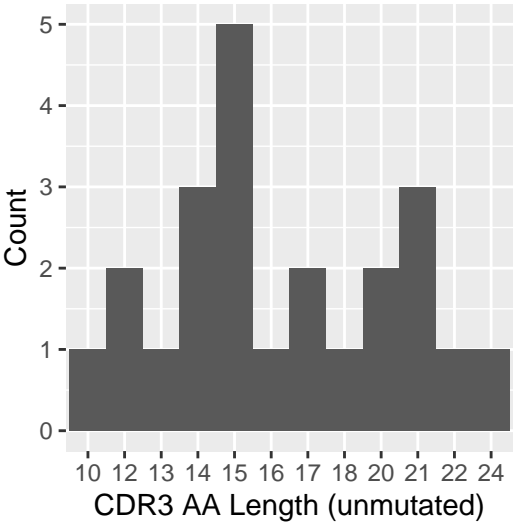


IGHV5-51*01

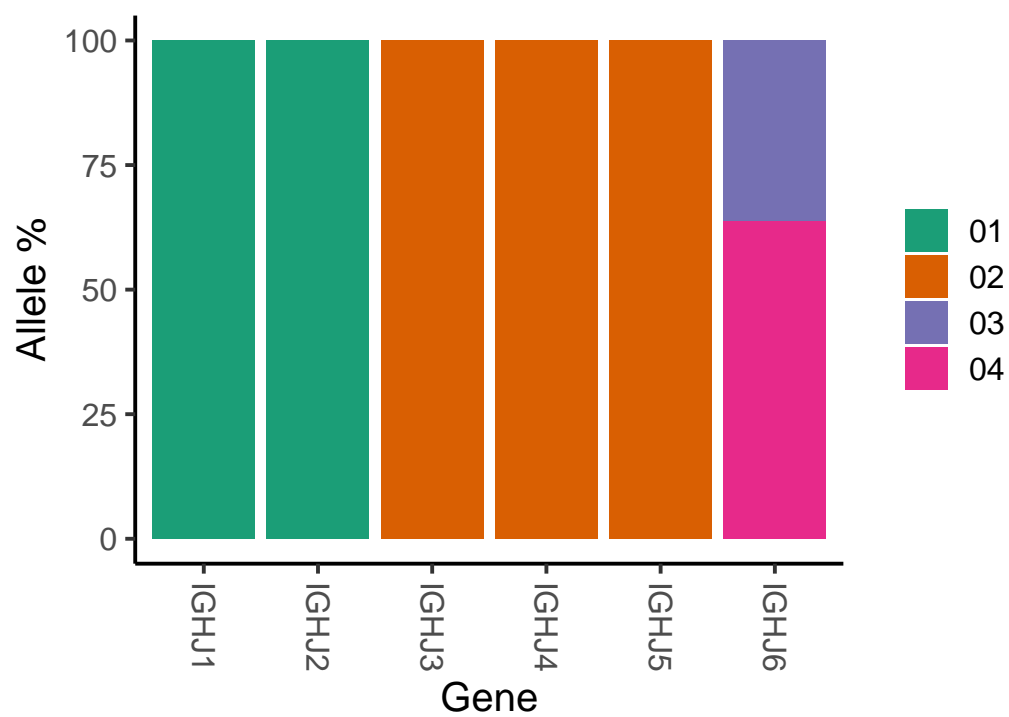
317 sequences assigned
280 (88.3%) exact matches, in which:
279 unique CDR3
7 unique J



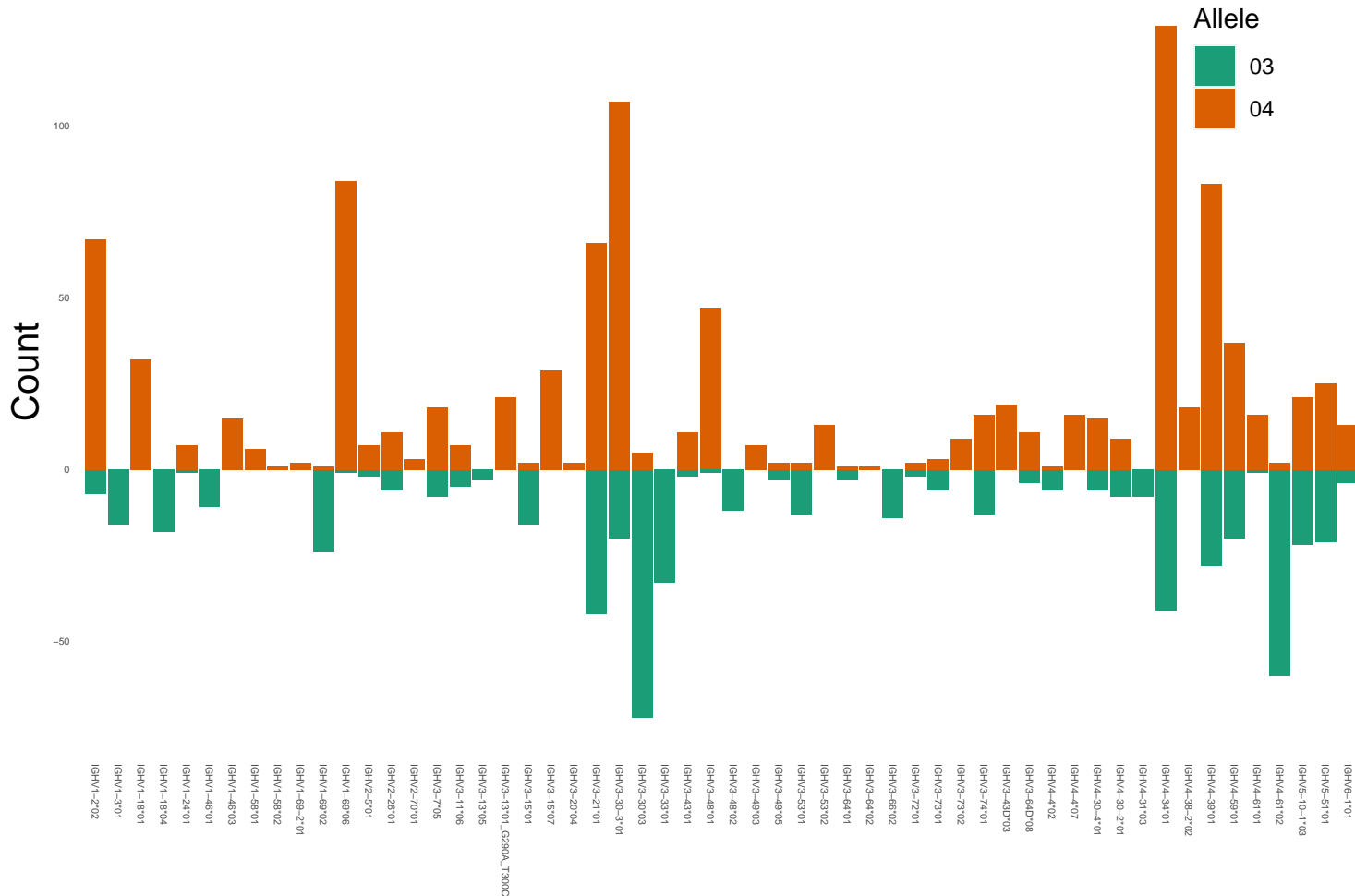
IGHV3-13*01_G290A_T300C



Allele Usage



Sequence Count by IGHJ6 allele usage



[illegible]