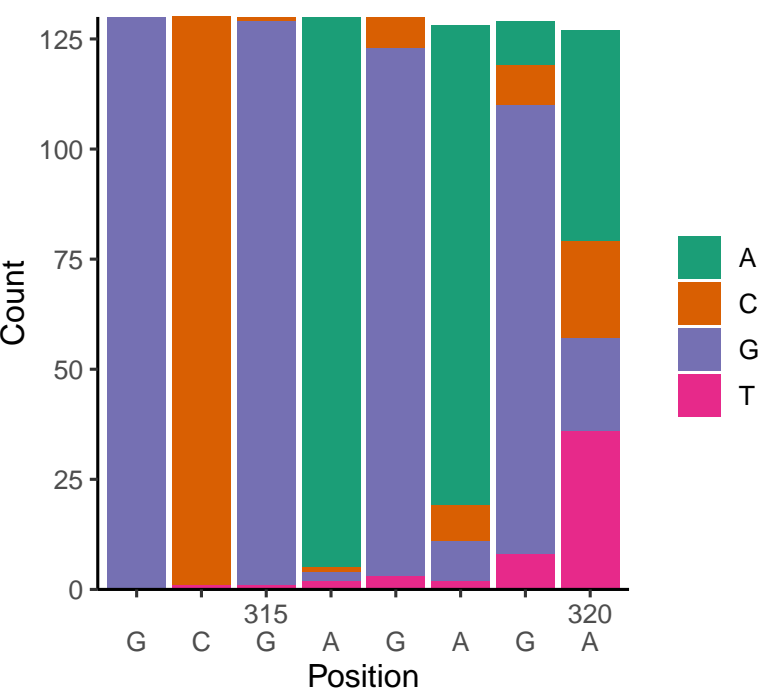
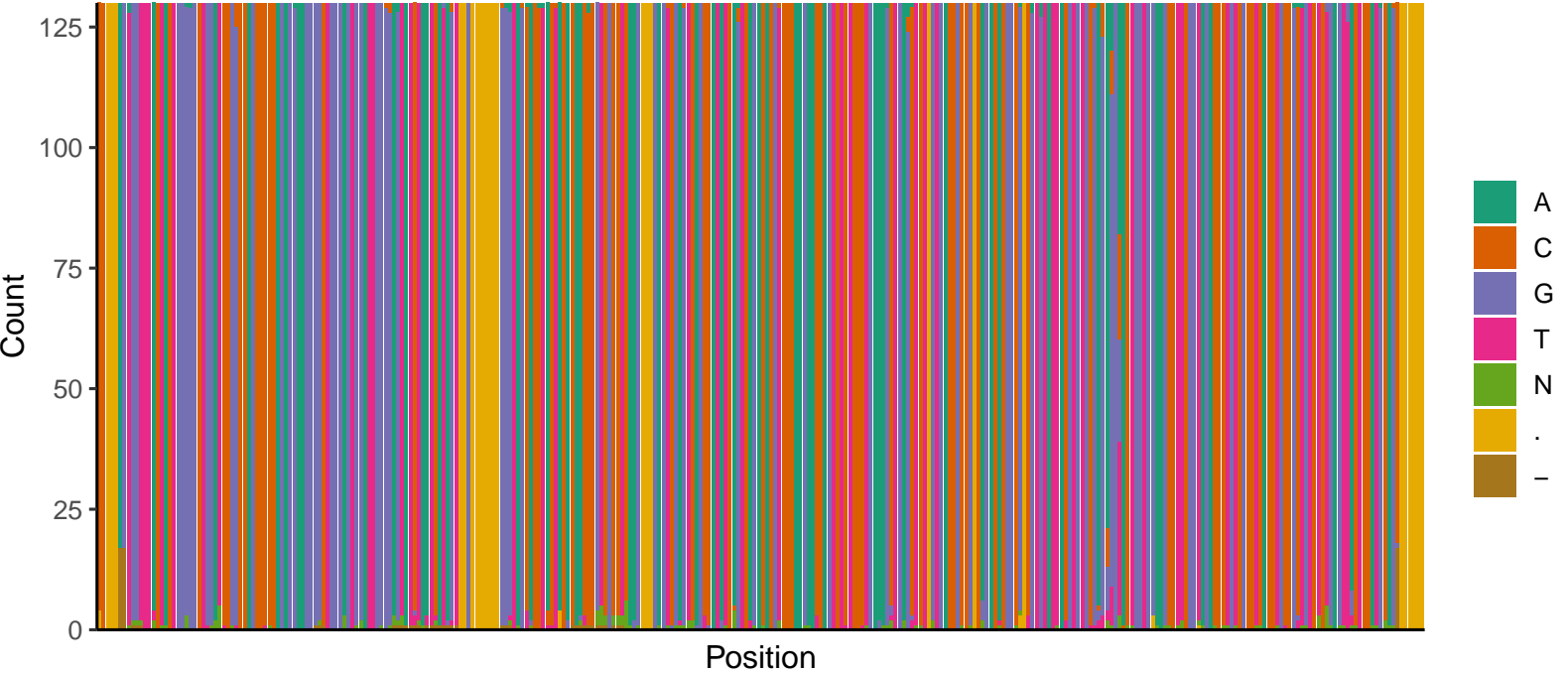


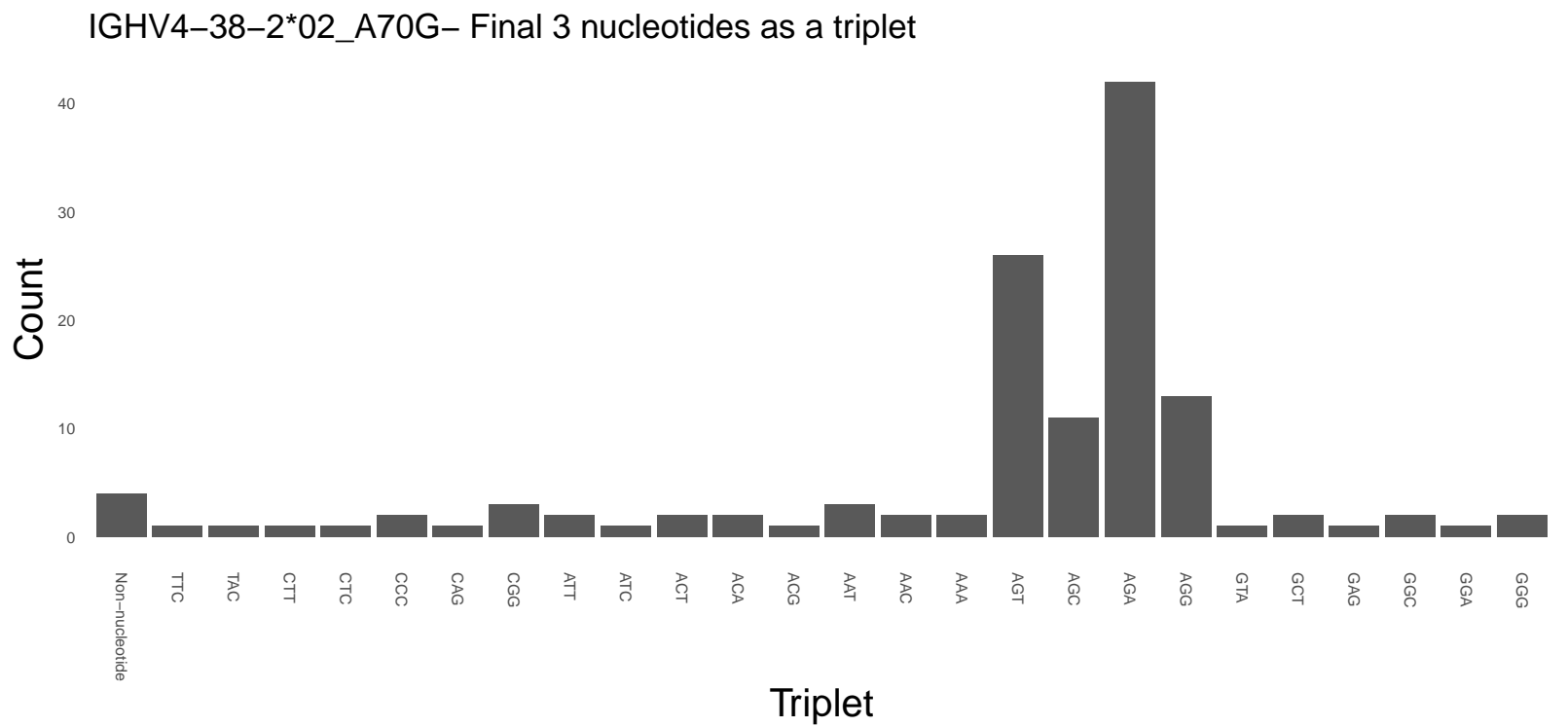
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

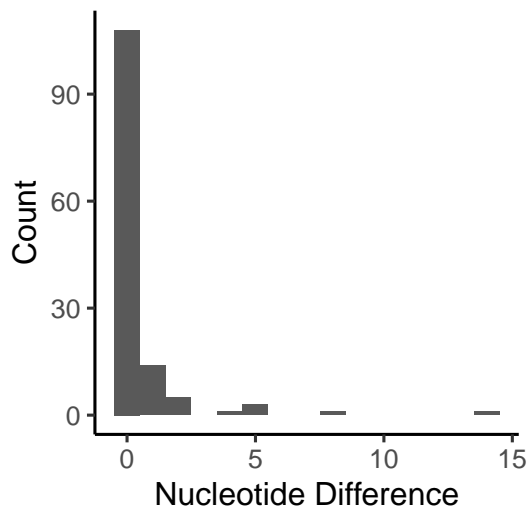


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



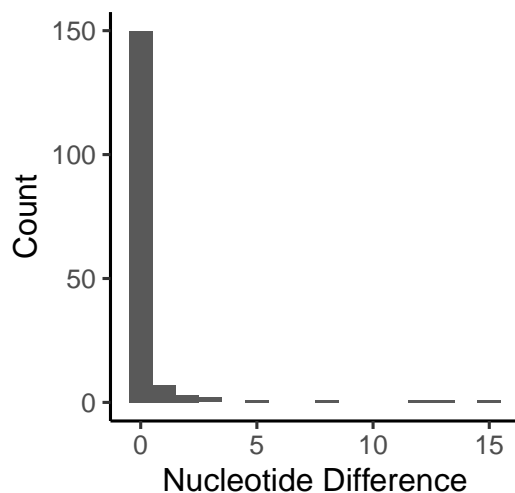
IGHV1-2*04

134 sequences assigned
108 (80.6%) exact matches, in which:
108 unique CDR3
7 unique J



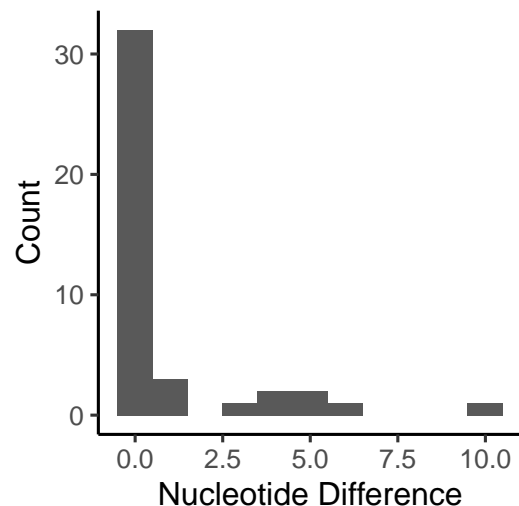
IGHV1-24*01

168 sequences assigned
150 (89.3%) exact matches, in which:
150 unique CDR3
7 unique J



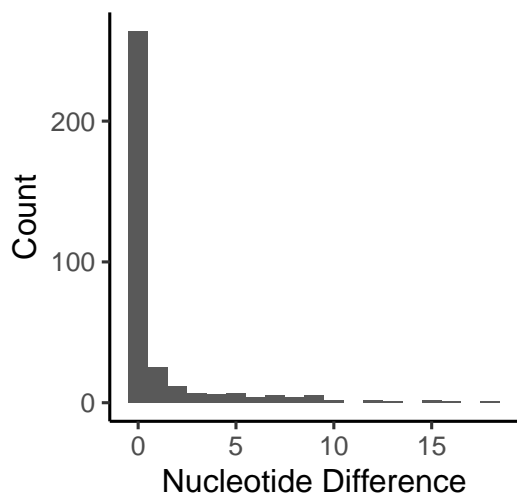
IGHV1-58*01

42 sequences assigned
32 (76.2%) exact matches, in which:
32 unique CDR3
6 unique J



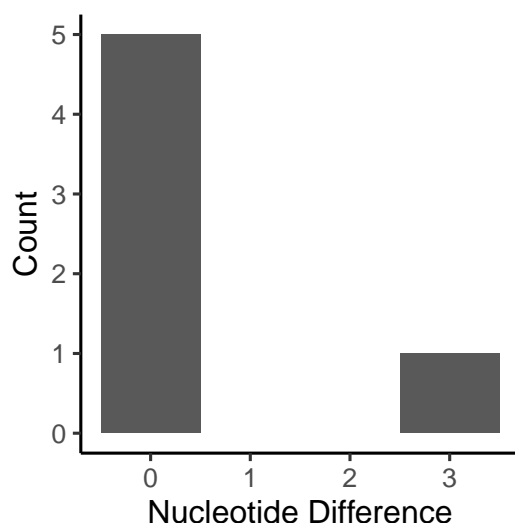
IGHV1-3*01

351 sequences assigned
264 (75.2%) exact matches, in which:
264 unique CDR3
6 unique J



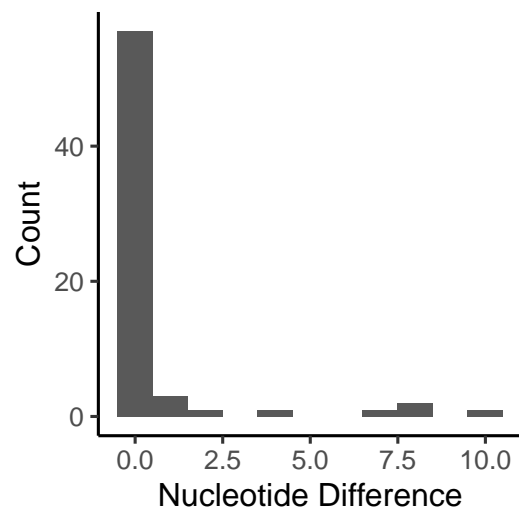
IGHV1-45*02

6 sequences assigned
5 (83.3%) exact matches, in which:
5 unique CDR3
2 unique J



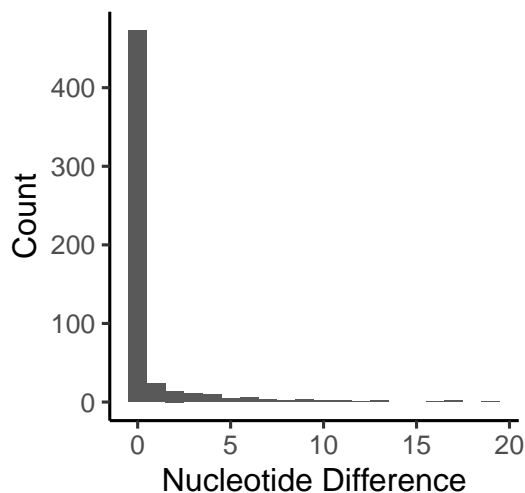
IGHV1-69-2*01

66 sequences assigned
57 (86.4%) exact matches, in which:
57 unique CDR3
6 unique J



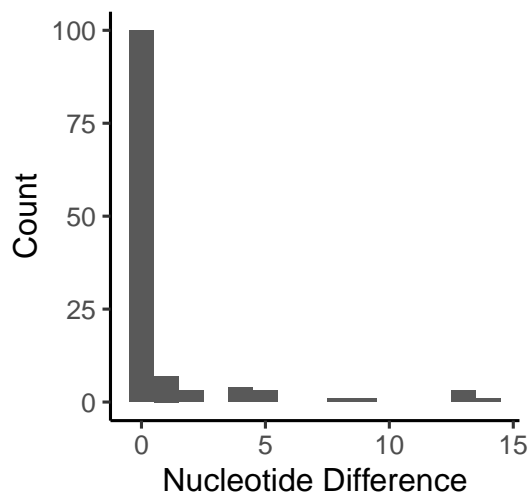
IGHV1-18*01

561 sequences assigned
473 (84.3%) exact matches, in which:
473 unique CDR3
7 unique J



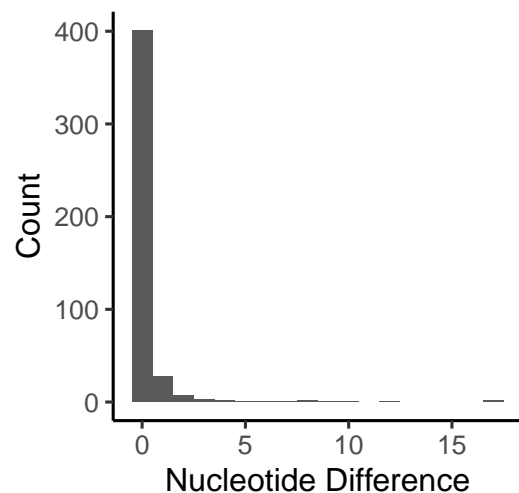
IGHV1-46*01

125 sequences assigned
100 (80%) exact matches, in which:
100 unique CDR3
7 unique J



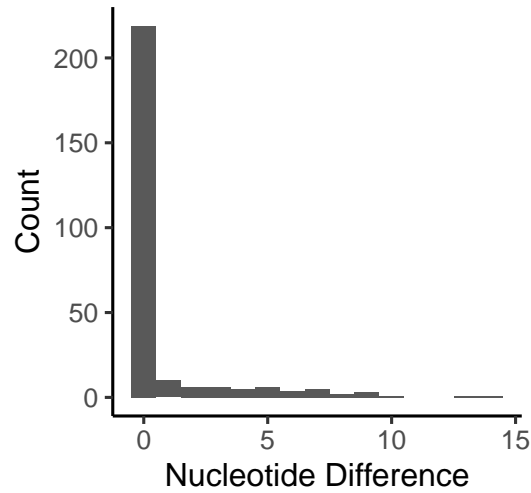
IGHV1-69*06

451 sequences assigned
401 (88.9%) exact matches, in which:
401 unique CDR3
7 unique J



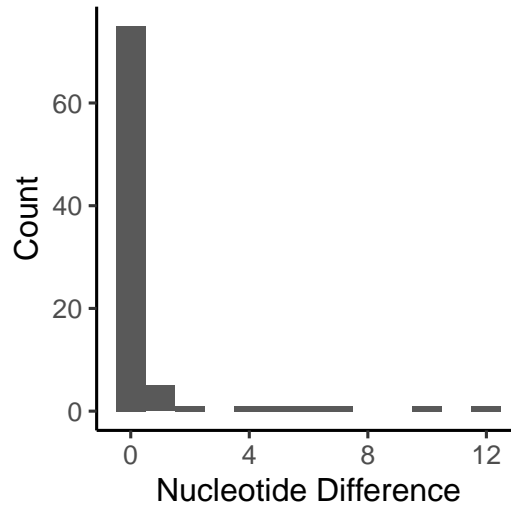
IGHV2-5*02

269 sequences assigned
219 (81.4%) exact matches, in which:
219 unique CDR3
7 unique J



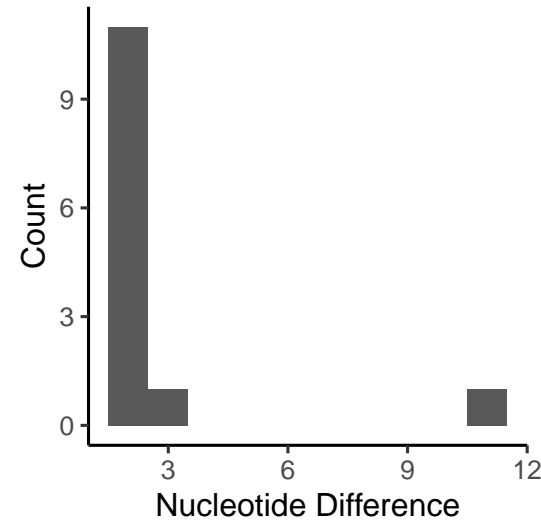
IGHV2-70*15

87 sequences assigned
75 (86.2%) exact matches, in which:
75 unique CDR3
6 unique J



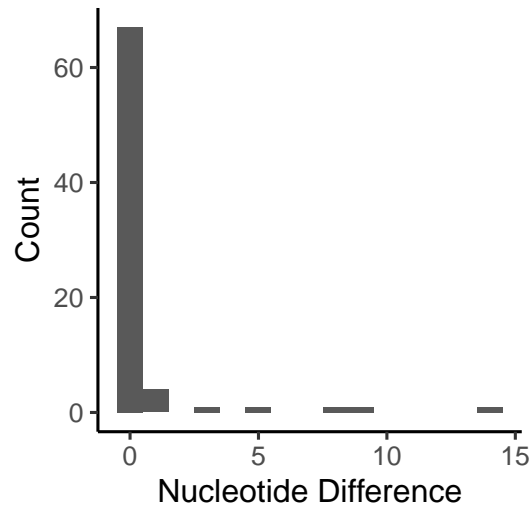
IGHV3-13*01

13 sequences assigned
No exact matches.



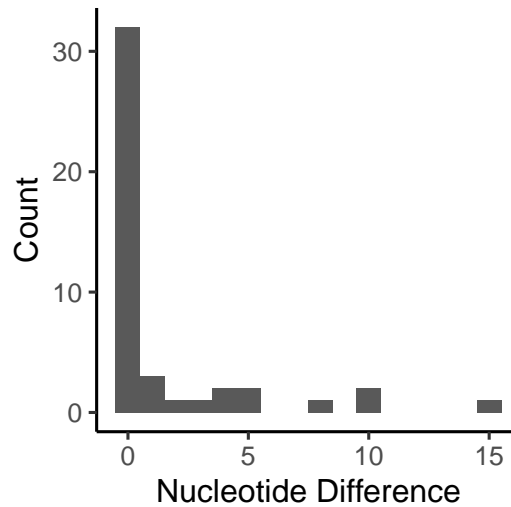
IGHV2-26*01

76 sequences assigned
67 (88.2%) exact matches, in which:
67 unique CDR3
7 unique J



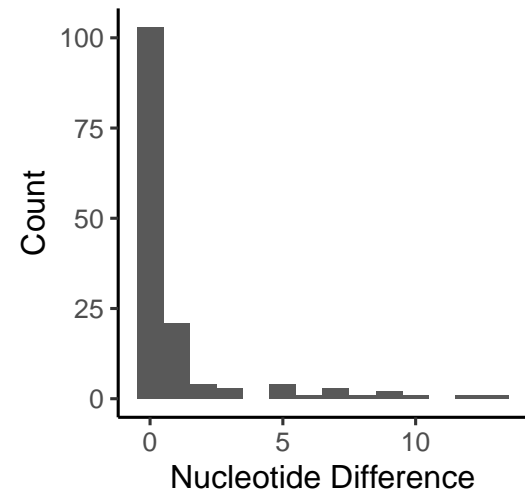
IGHV3-7*04

45 sequences assigned
32 (71.1%) exact matches, in which:
32 unique CDR3
6 unique J



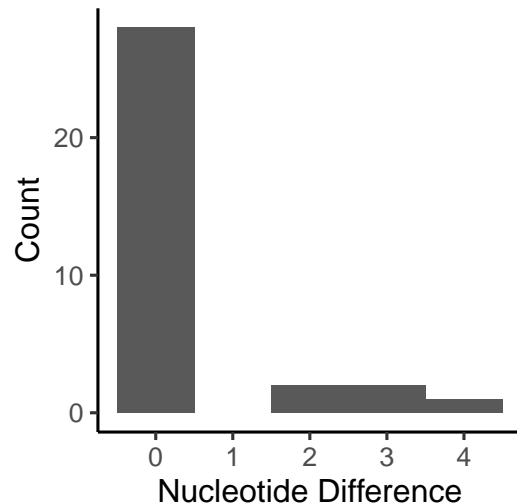
IGHV3-15*07

145 sequences assigned
103 (71%) exact matches, in which:
103 unique CDR3
7 unique J



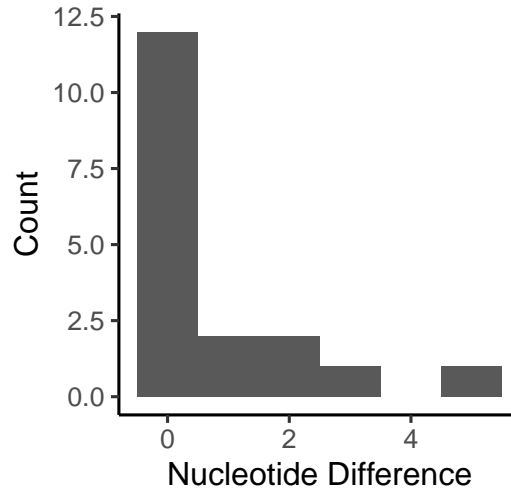
IGHV2-70*01

33 sequences assigned
28 (84.8%) exact matches, in which:
28 unique CDR3
4 unique J



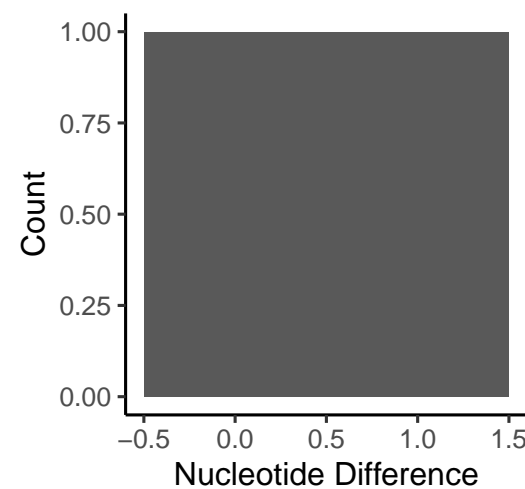
IGHV3-11*06

18 sequences assigned
12 (66.7%) exact matches, in which:
12 unique CDR3
5 unique J



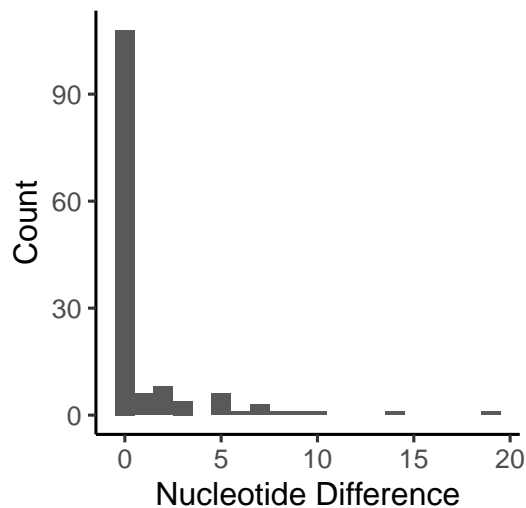
IGHV3-20*04

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



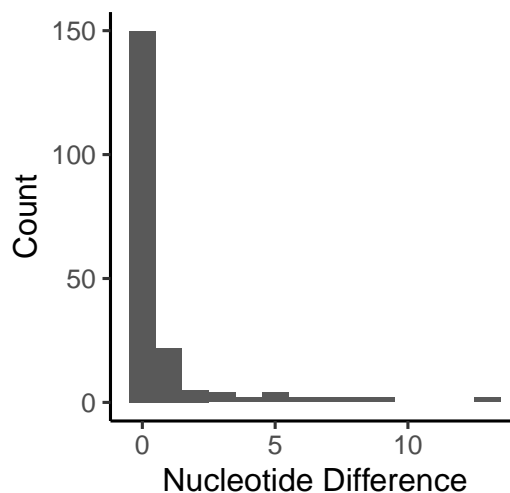
IGHV3-21*01

141 sequences assigned
108 (76.6%) exact matches, in which:
108 unique CDR3
6 unique J



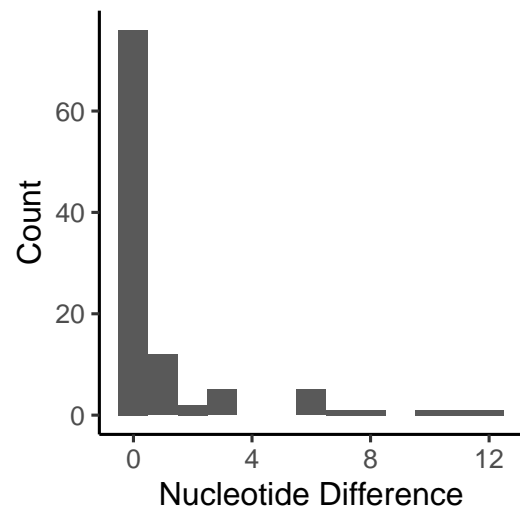
IGHV3-33*01

197 sequences assigned
150 (76.1%) exact matches, in which:
150 unique CDR3
7 unique J



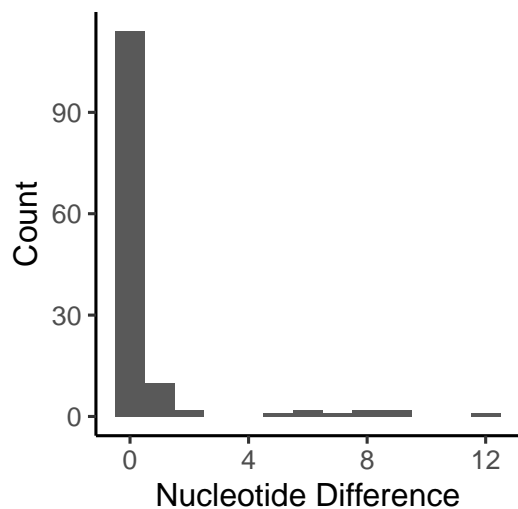
IGHV3-48*03

105 sequences assigned
76 (72.4%) exact matches, in which:
76 unique CDR3
5 unique J



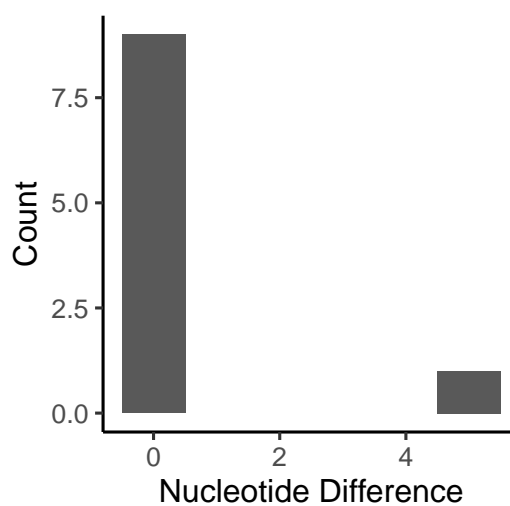
IGHV3-30-3*01

135 sequences assigned
114 (84.4%) exact matches, in which:
114 unique CDR3
5 unique J



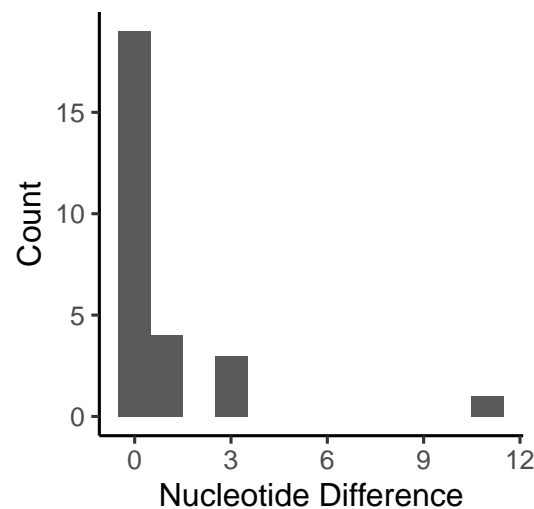
IGHV3-43*01

10 sequences assigned
9 (90%) exact matches, in which:
9 unique CDR3
4 unique J



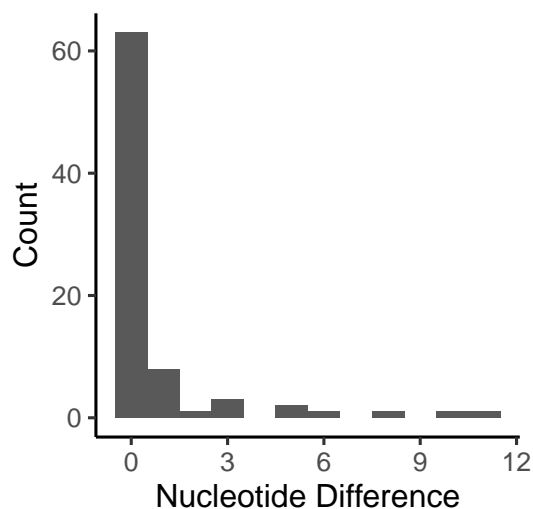
IGHV3-49*03

27 sequences assigned
19 (70.4%) exact matches, in which:
19 unique CDR3
6 unique J



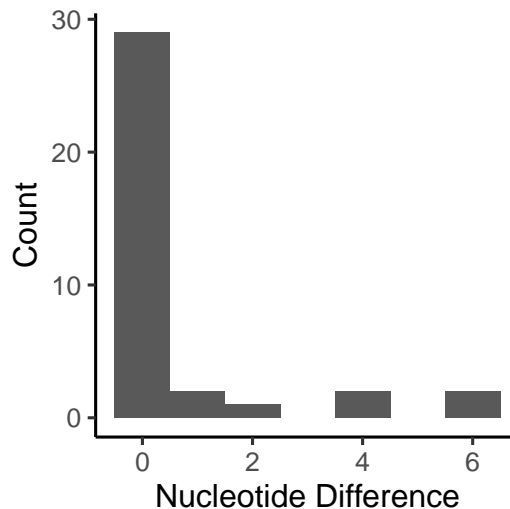
IGHV3-30*01

81 sequences assigned
63 (77.8%) exact matches, in which:
63 unique CDR3
6 unique J



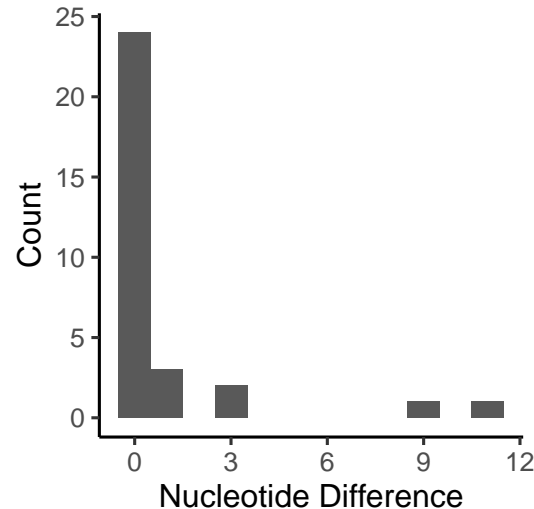
IGHV3-48*01

37 sequences assigned
29 (78.4%) exact matches, in which:
29 unique CDR3
5 unique J



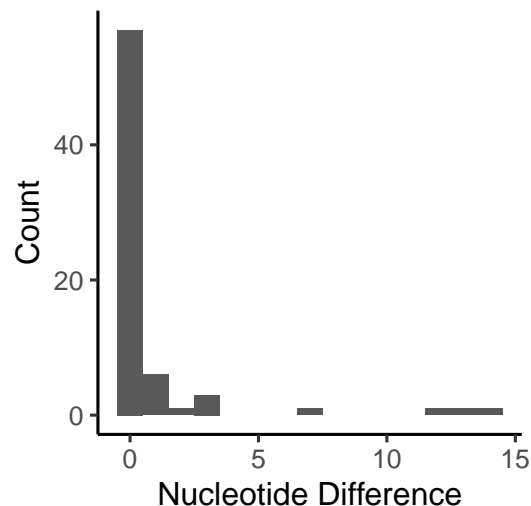
IGHV3-49*04

31 sequences assigned
24 (77.4%) exact matches, in which:
24 unique CDR3
3 unique J



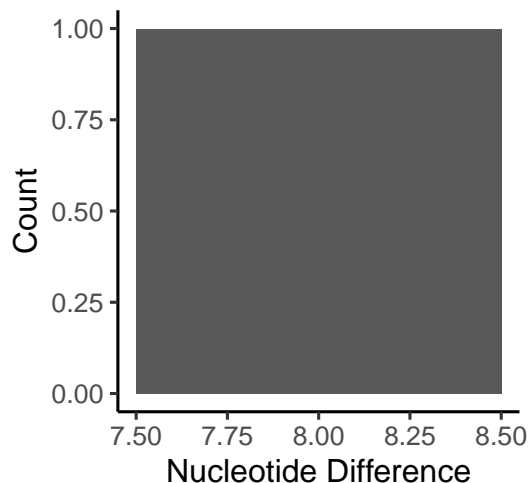
IGHV3-53*01

71 sequences assigned
57 (80.3%) exact matches, in which:
57 unique CDR3
6 unique J



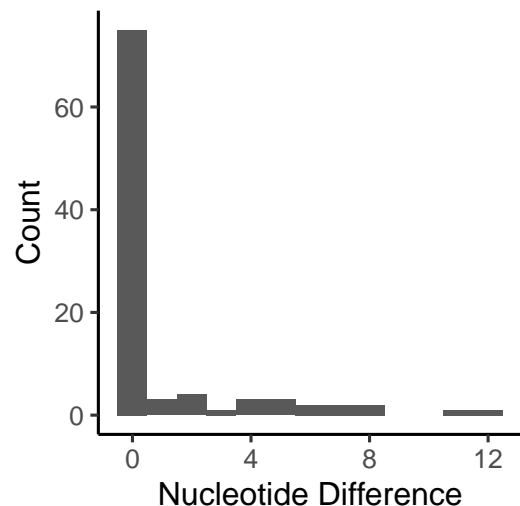
IGHV3-64*04

1 sequences assigned
No exact matches.



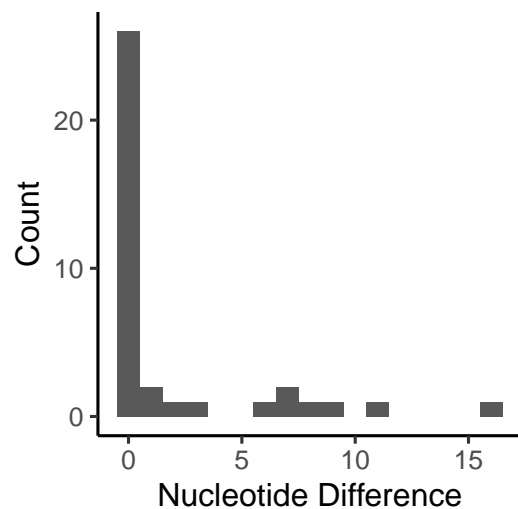
IGHV3-74*01

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



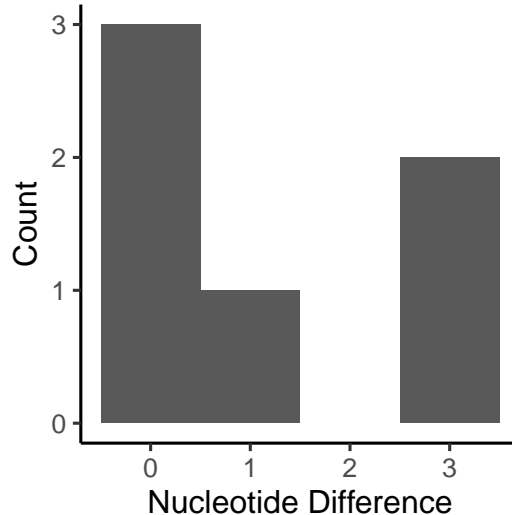
IGHV3-53*02

37 sequences assigned
26 (70.3%) exact matches, in which:
26 unique CDR3
3 unique J



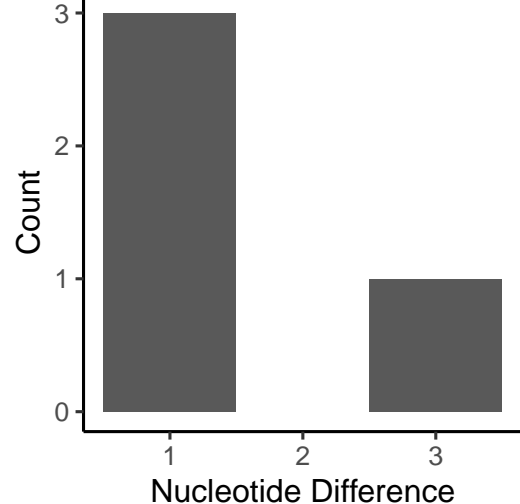
IGHV3-72*01

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



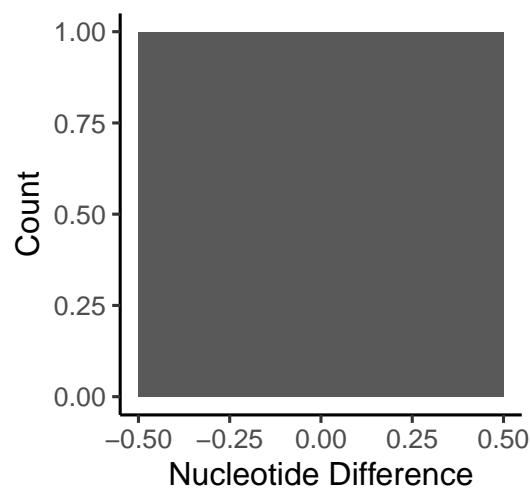
IGHV3-43D*04

4 sequences assigned
No exact matches.



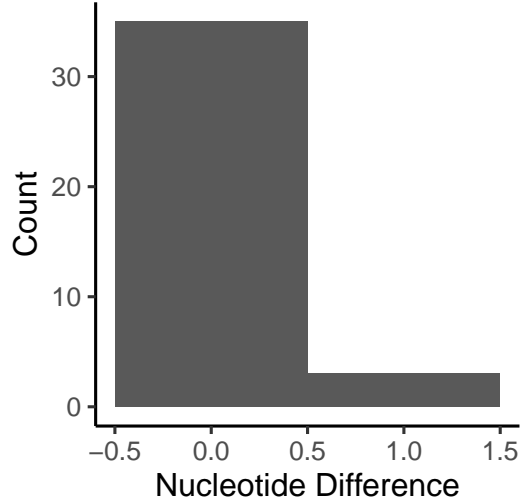
IGHV3-64*02

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



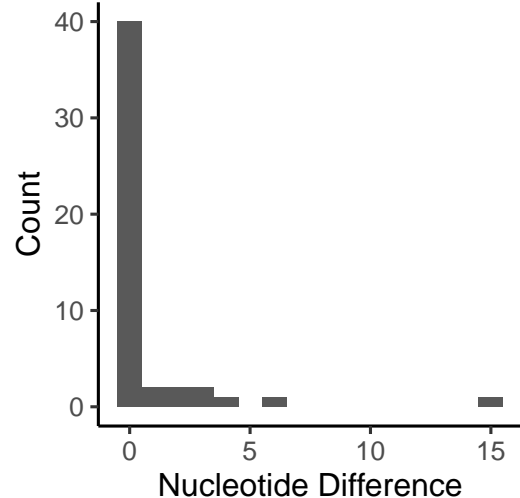
IGHV3-73*02

38 sequences assigned
35 (92.1%) exact matches, in which:
35 unique CDR3
6 unique J



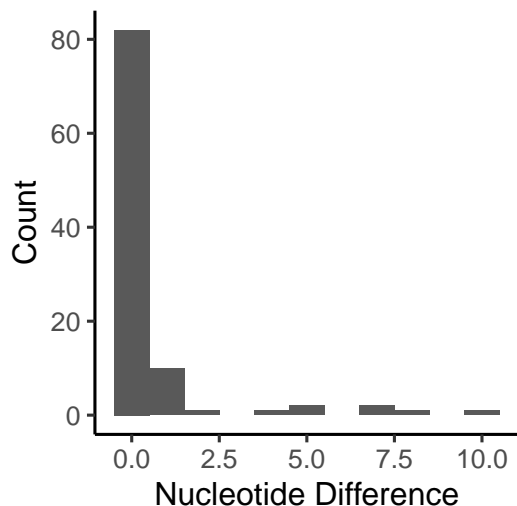
IGHV3-64D*06

49 sequences assigned
40 (81.6%) exact matches, in which:
40 unique CDR3
6 unique J



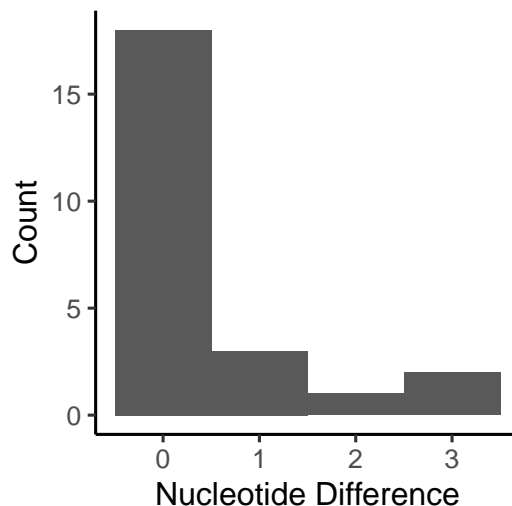
IGHV4-4*02

100 sequences assigned
82 (82%) exact matches, in which:
82 unique CDR3
7 unique J



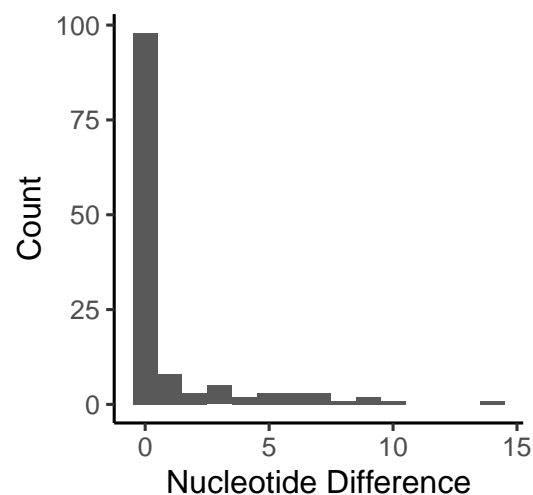
IGHV4-31*01

24 sequences assigned
18 (75%) exact matches, in which:
18 unique CDR3
5 unique J



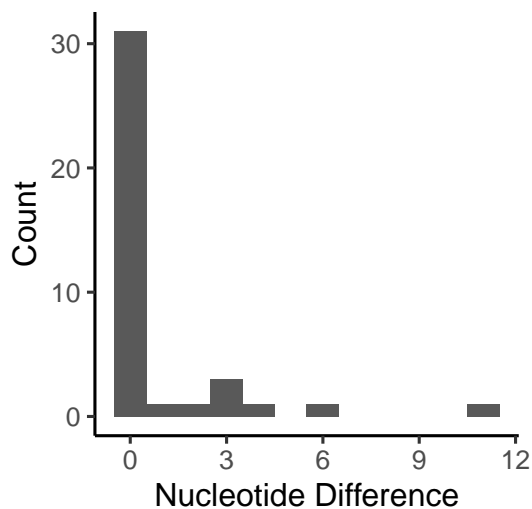
IGHV4-38-2*02_A70G

130 sequences assigned
98 (75.4%) exact matches, in which:
98 unique CDR3
6 unique J



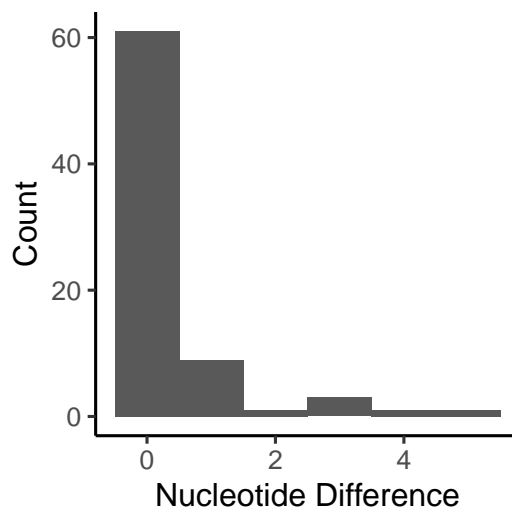
IGHV4-30-2*01

39 sequences assigned
31 (79.5%) exact matches, in which:
31 unique CDR3
4 unique J



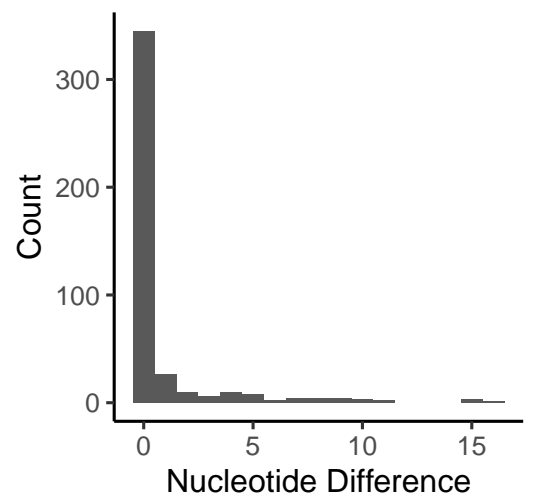
IGHV4-31*03

76 sequences assigned
61 (80.3%) exact matches, in which:
61 unique CDR3
6 unique J



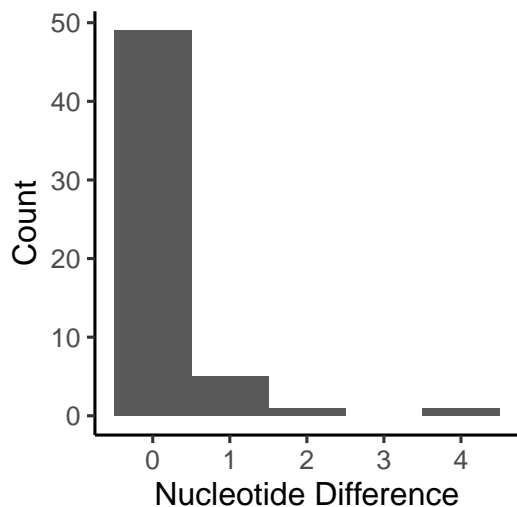
IGHV4-39*01

429 sequences assigned
345 (80.4%) exact matches, in which:
345 unique CDR3
7 unique J



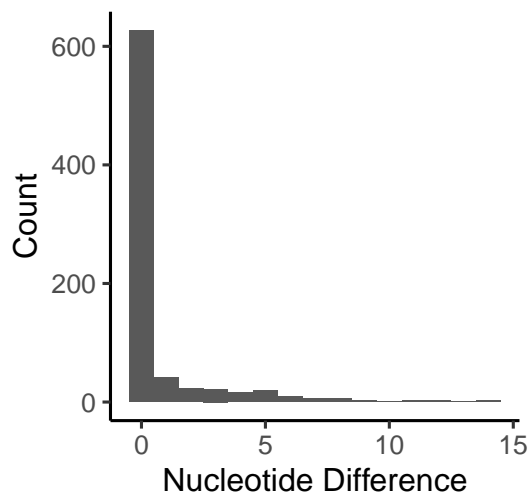
IGHV4-30-4*01

56 sequences assigned
49 (87.5%) exact matches, in which:
49 unique CDR3
6 unique J



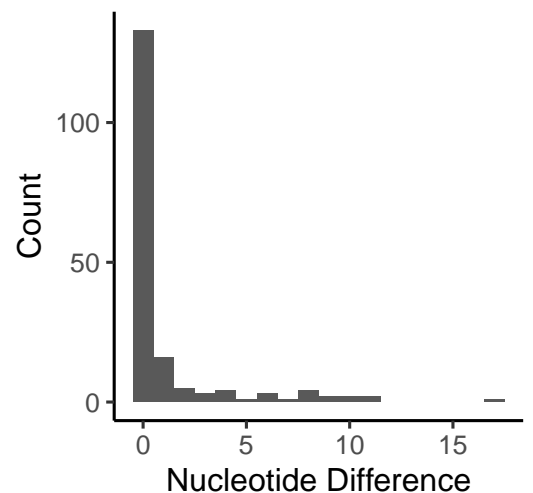
IGHV4-34*01

783 sequences assigned
627 (80.1%) exact matches, in which:
627 unique CDR3
7 unique J



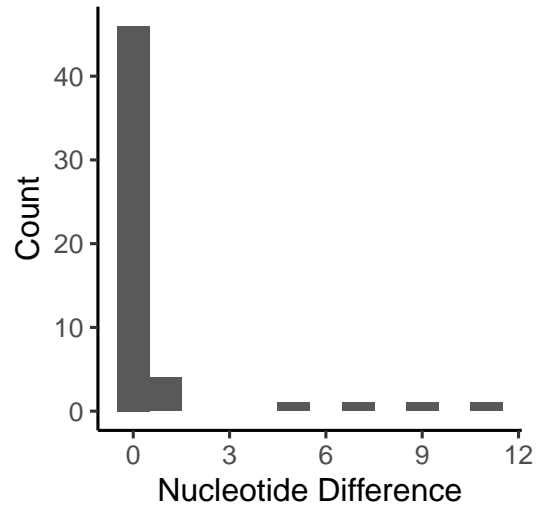
IGHV4-59*01

177 sequences assigned
133 (75.1%) exact matches, in which:
133 unique CDR3
6 unique J



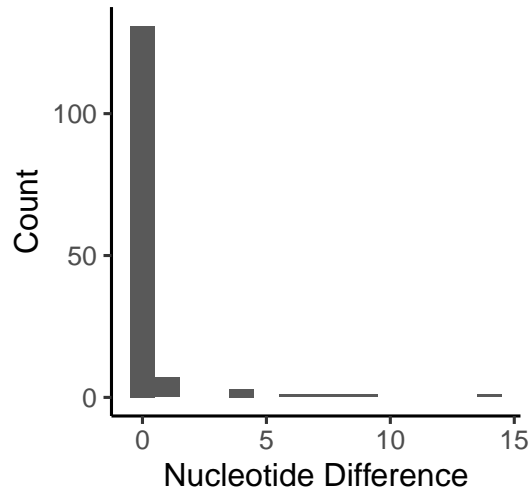
IGHV4-61*01

55 sequences assigned
46 (83.6%) exact matches, in which:
46 unique CDR3
6 unique J



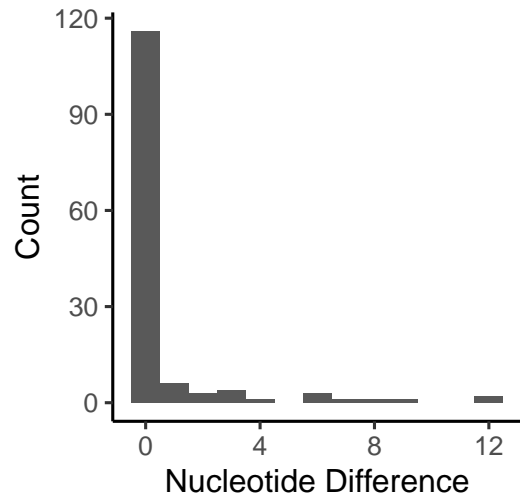
IGHV6-1*01

146 sequences assigned
131 (89.7%) exact matches, in which:
131 unique CDR3
6 unique J



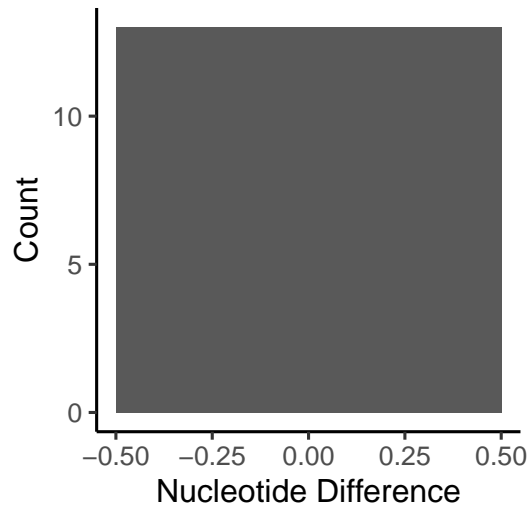
IGHV5-10-1*03

138 sequences assigned
116 (84.1%) exact matches, in which:
116 unique CDR3
7 unique J



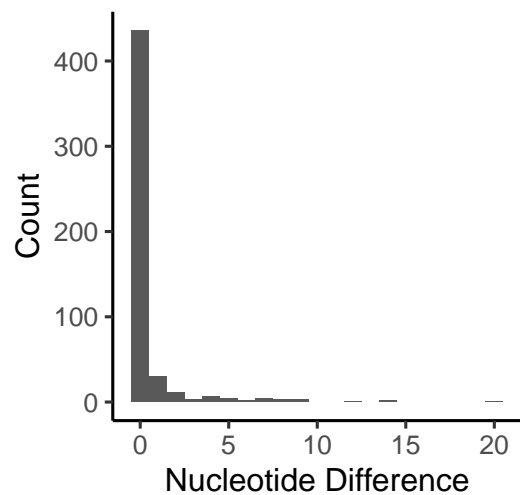
IGHV7-4-1*01

13 sequences assigned
13 (100%) exact matches, in which:
13 unique CDR3
5 unique J

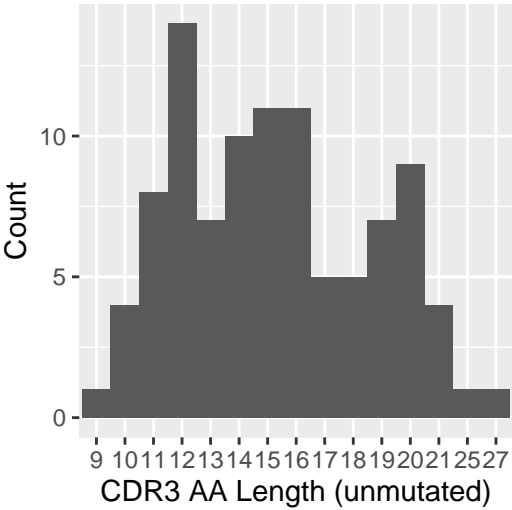


IGHV5-51*01

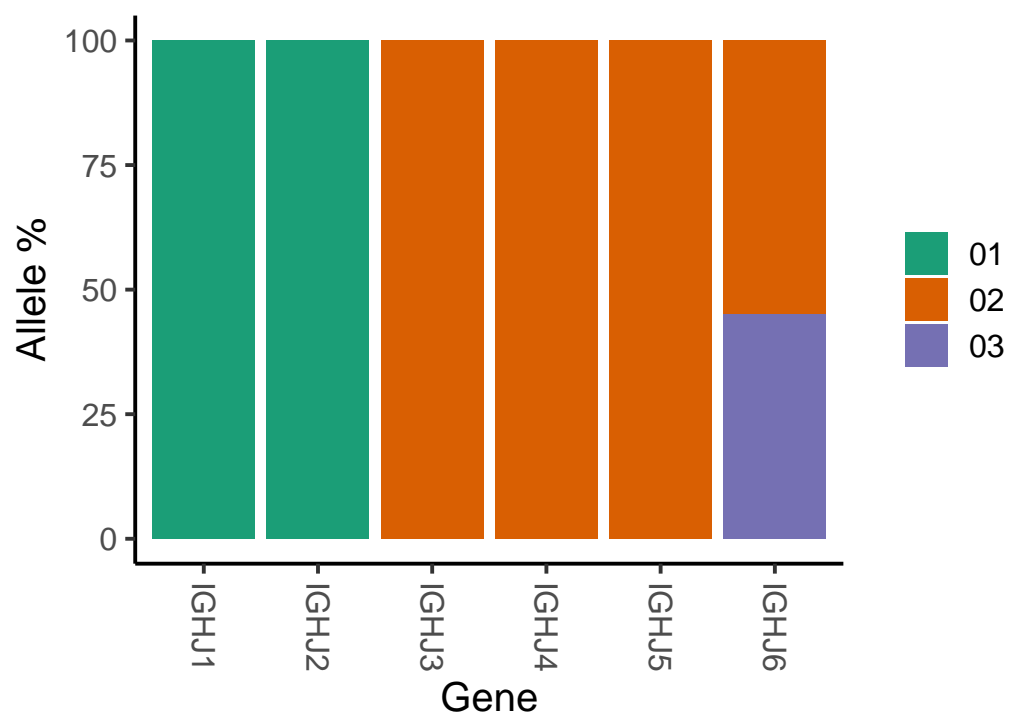
508 sequences assigned
436 (85.8%) exact matches, in which:
436 unique CDR3
7 unique J



IGHV4-38-2*02_A70G



Allele Usage



Sequence Count by IGHJ6 allele usage



[illegible]