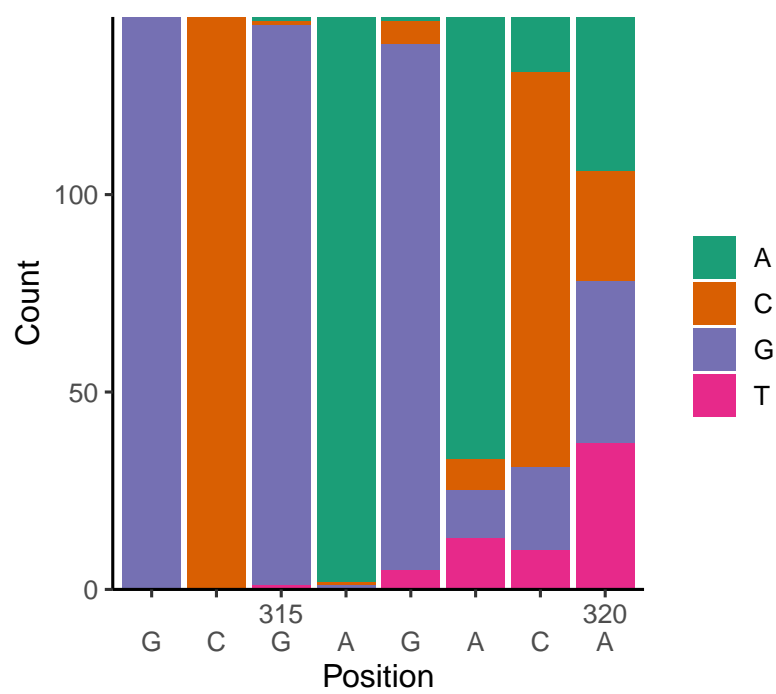
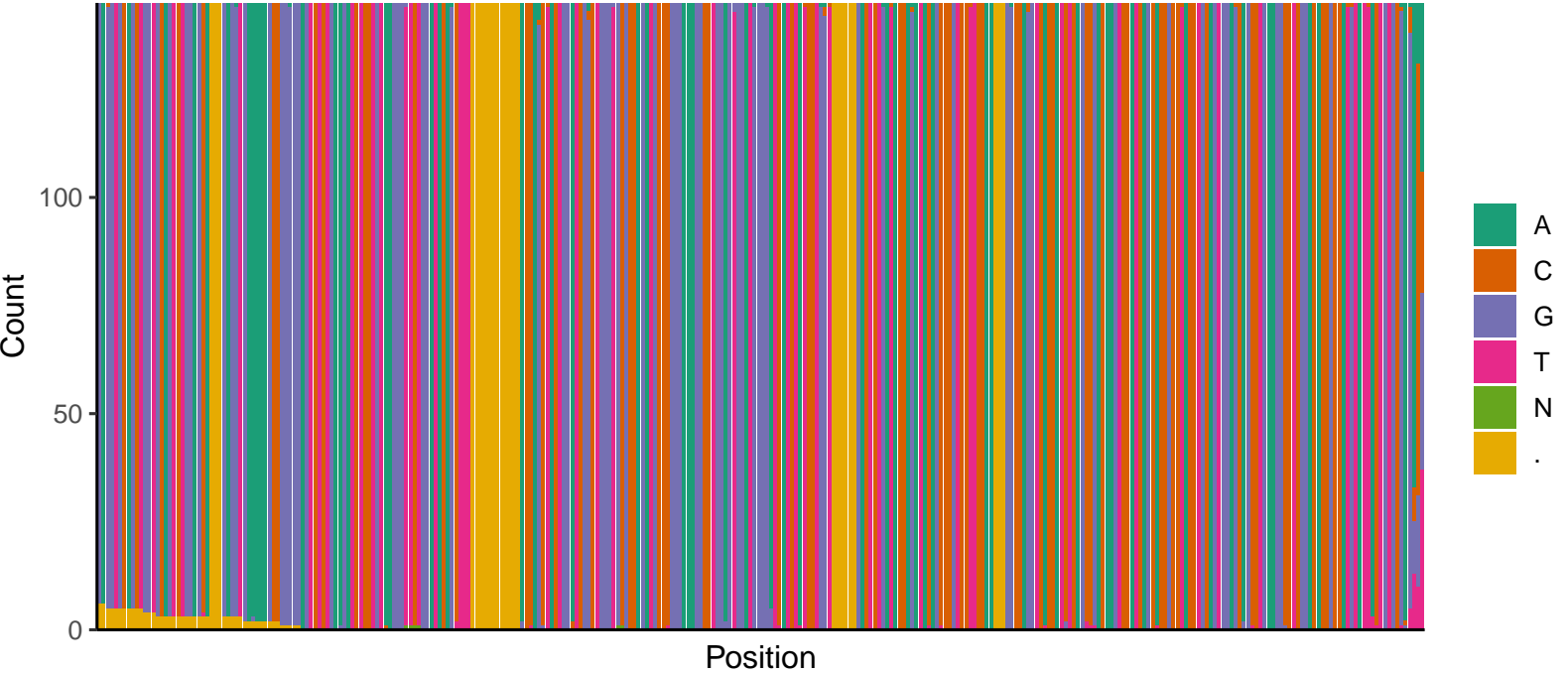


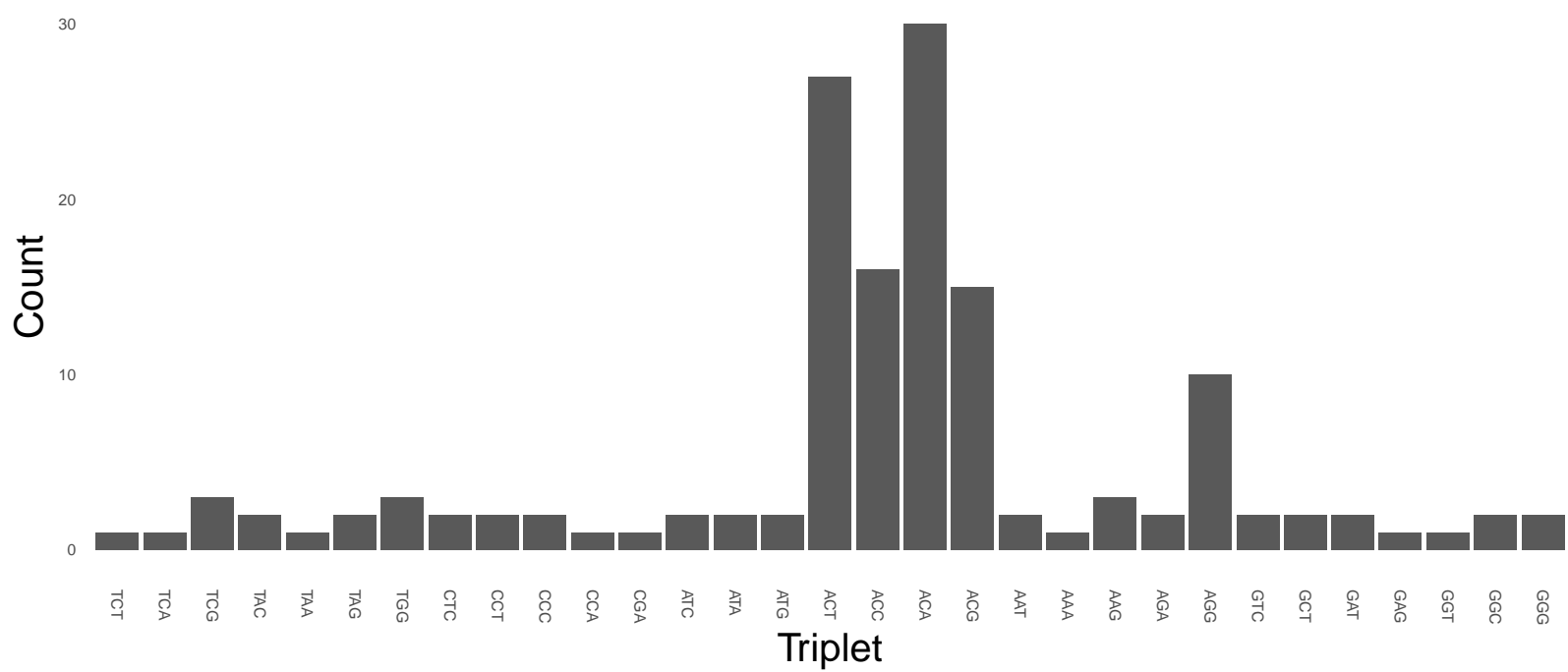
Gene IGHV5-51*01_C45G



Gene IGHV5-51*01_C45G

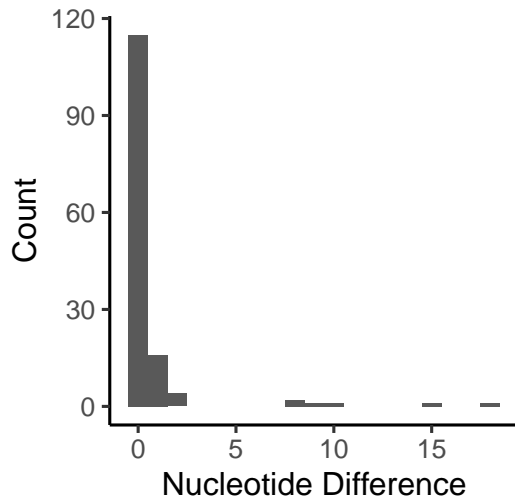


IGHV5-51*01_C45G- Final 3 nucleotides as a triplet



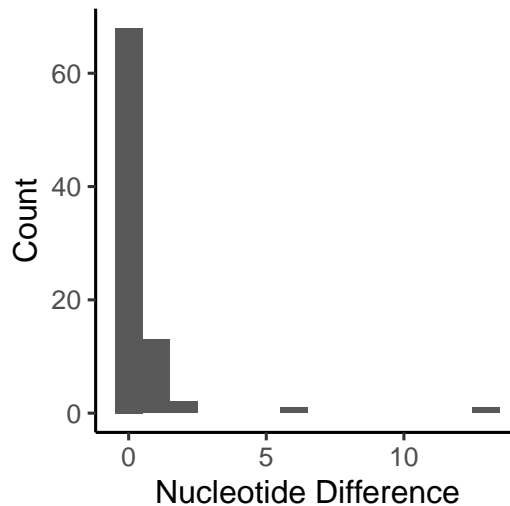
IGHV1-2*02

141 sequences assigned
115 (81.6%) exact matches, in which:
115 unique CDR3
6 unique J



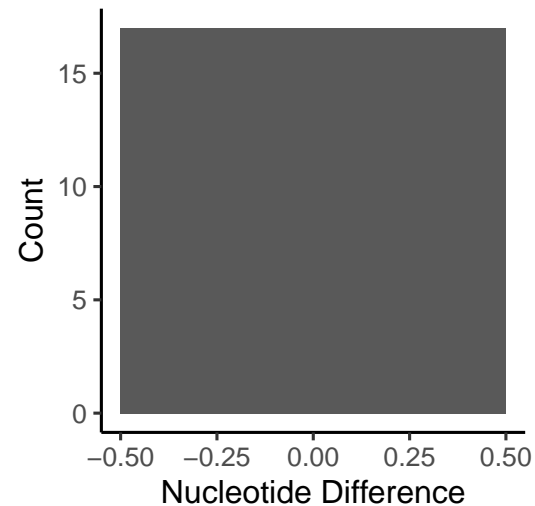
IGHV1-24*01

85 sequences assigned
68 (80%) exact matches, in which:
68 unique CDR3
5 unique J



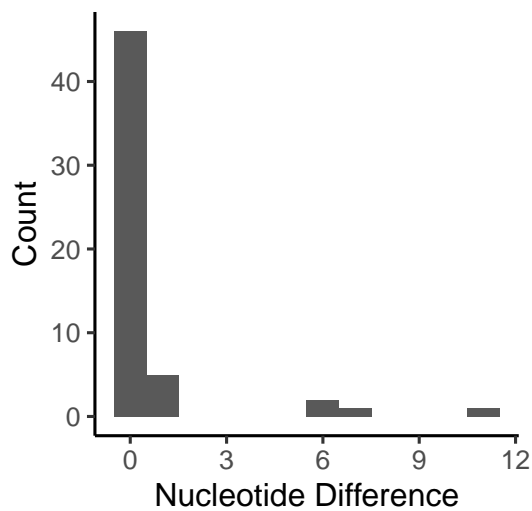
IGHV1-58*02

17 sequences assigned
17 (100%) exact matches, in which:
17 unique CDR3
5 unique J



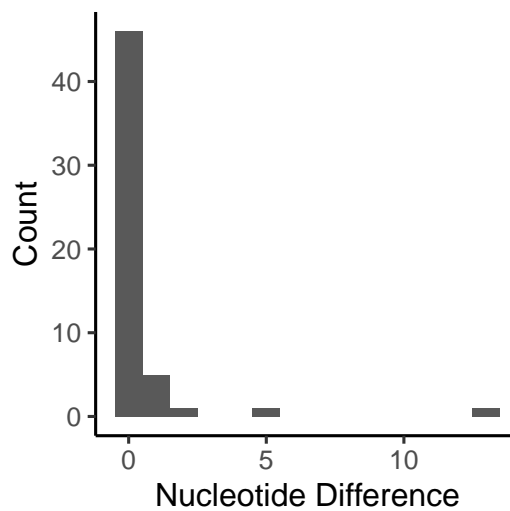
IGHV1-3*01

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



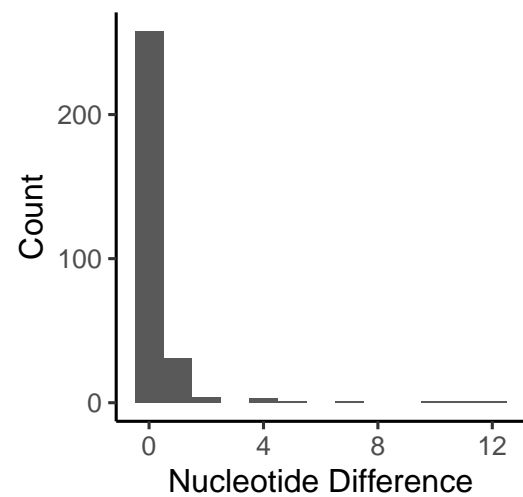
IGHV1-46*01

54 sequences assigned
46 (85.2%) exact matches, in which:
46 unique CDR3
6 unique J



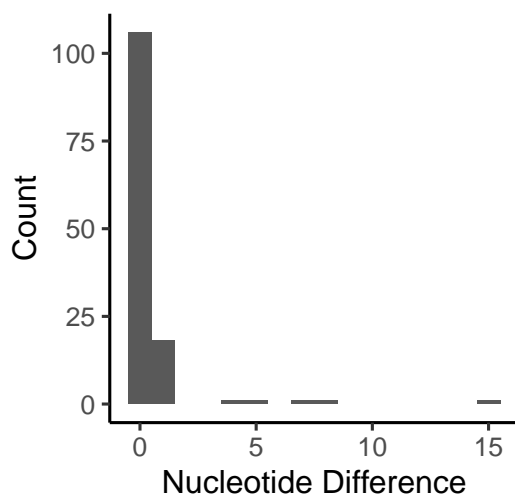
IGHV1-69*04

302 sequences assigned
258 (85.4%) exact matches, in which:
257 unique CDR3
6 unique J



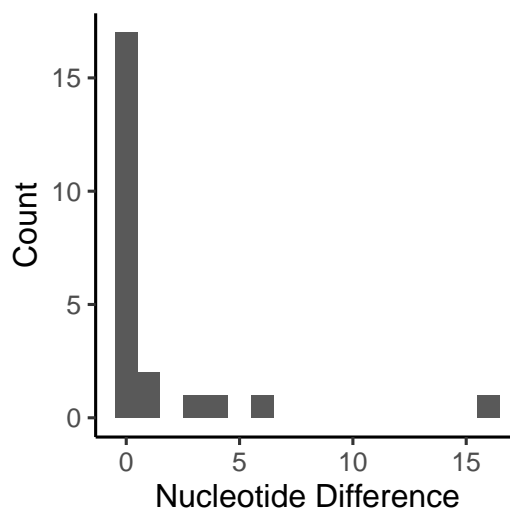
IGHV1-18*01

130 sequences assigned
106 (81.5%) exact matches, in which:
106 unique CDR3
5 unique J



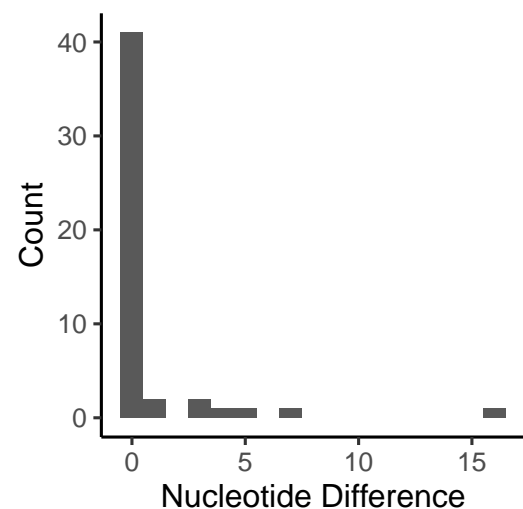
IGHV1-46*03

23 sequences assigned
17 (73.9%) exact matches, in which:
17 unique CDR3
4 unique J



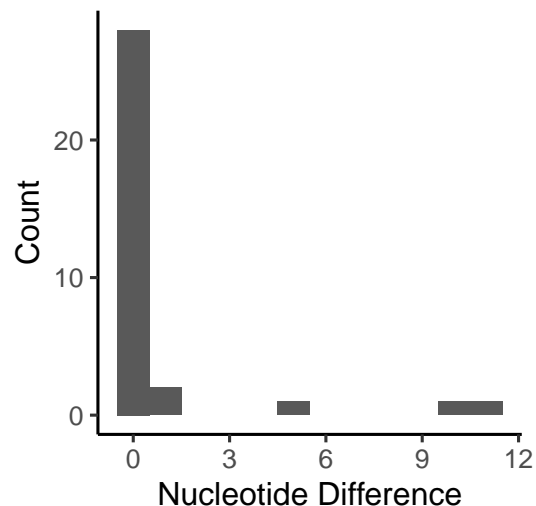
IGHV2-5*02

49 sequences assigned
41 (83.7%) exact matches, in which:
41 unique CDR3
4 unique J



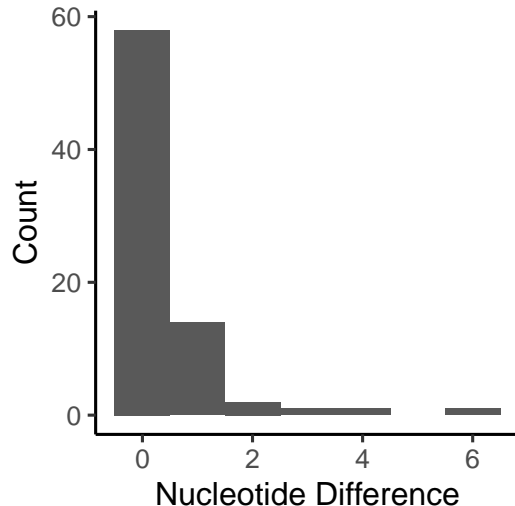
IGHV2-26*01

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



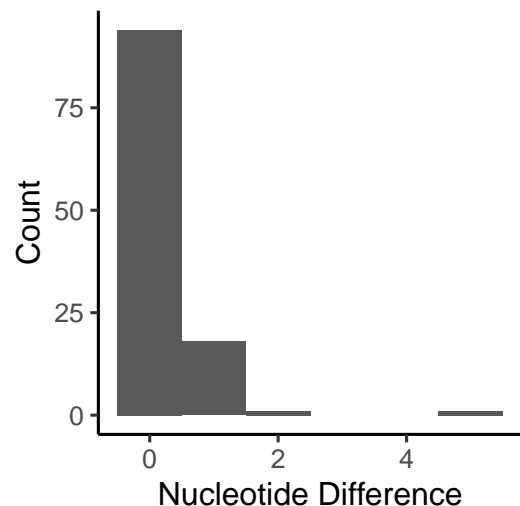
IGHV3-7*03

77 sequences assigned
58 (75.3%) exact matches, in which:
58 unique CDR3
6 unique J



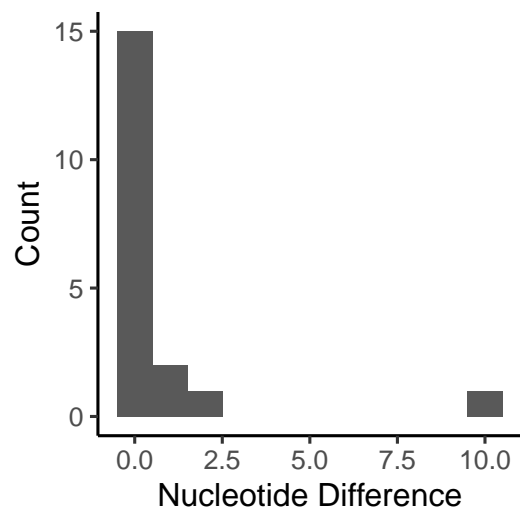
IGHV3-15*01

114 sequences assigned
94 (82.5%) exact matches, in which:
94 unique CDR3
6 unique J



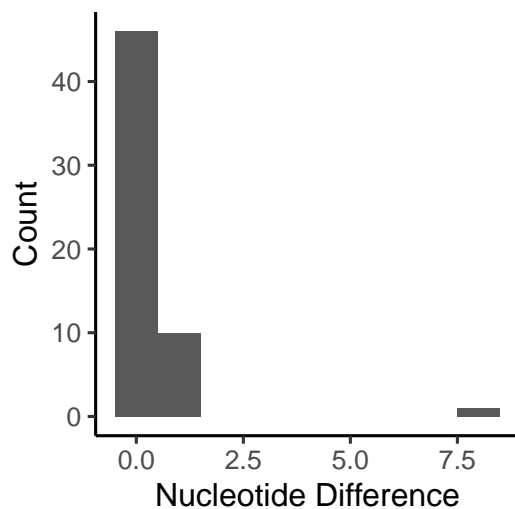
IGHV2-70*15

19 sequences assigned
15 (78.9%) exact matches, in which:
15 unique CDR3
4 unique J



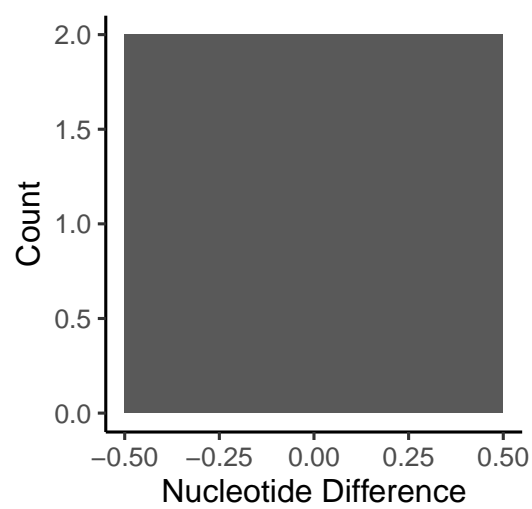
IGHV3-11*06

57 sequences assigned
46 (80.7%) exact matches, in which:
46 unique CDR3
5 unique J



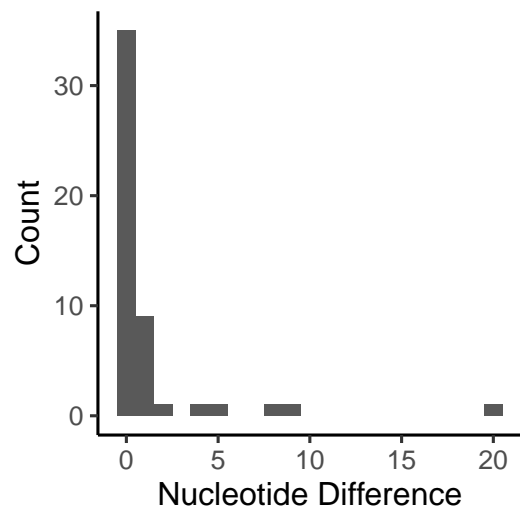
IGHV3-20*01

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



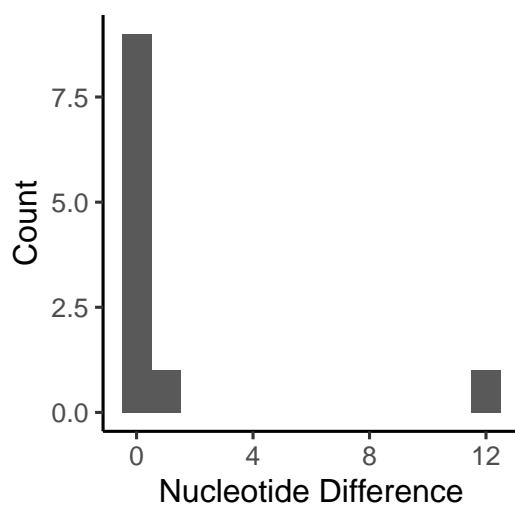
IGHV3-7*01

51 sequences assigned
35 (68.6%) exact matches, in which:
35 unique CDR3
5 unique J



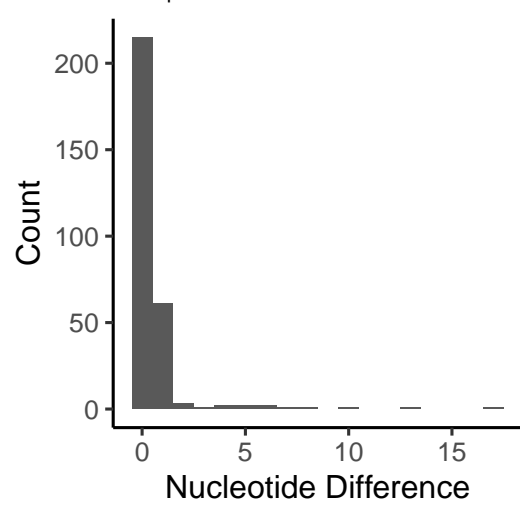
IGHV3-13*05

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



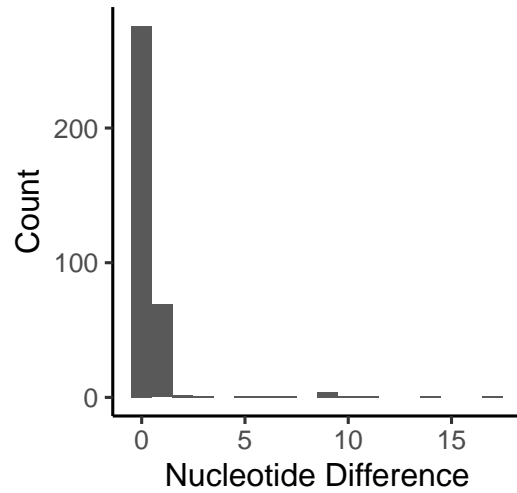
IGHV3-21*01

292 sequences assigned
215 (73.6%) exact matches, in which:
215 unique CDR3
6 unique J



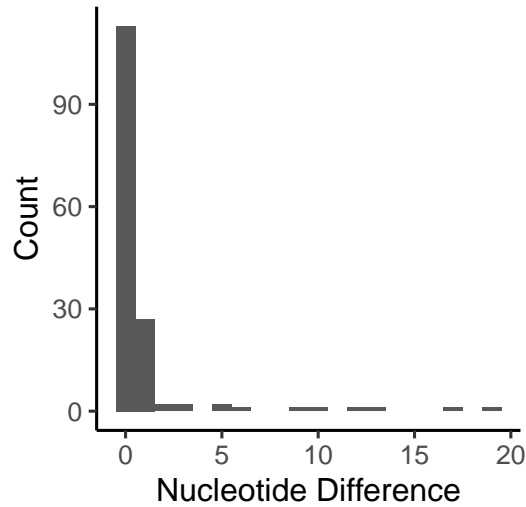
IGHV3-30-3*01

361 sequences assigned
276 (76.5%) exact matches, in which:
276 unique CDR3
6 unique J



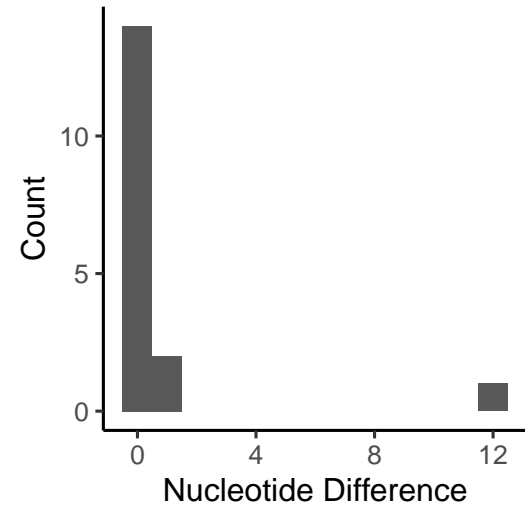
IGHV3-48*01

153 sequences assigned
113 (73.9%) exact matches, in which:
113 unique CDR3
6 unique J



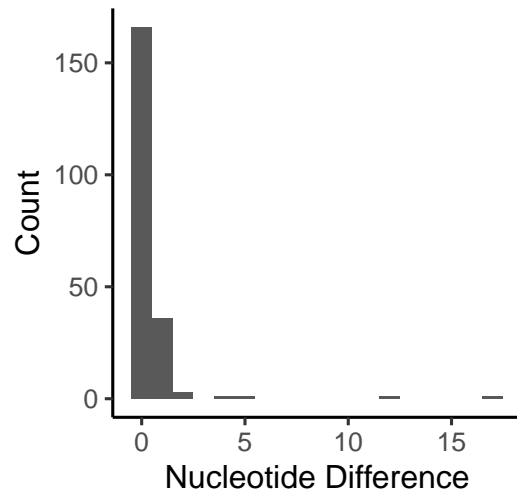
IGHV3-64*01

17 sequences assigned
14 (82.4%) exact matches, in which:
14 unique CDR3
3 unique J



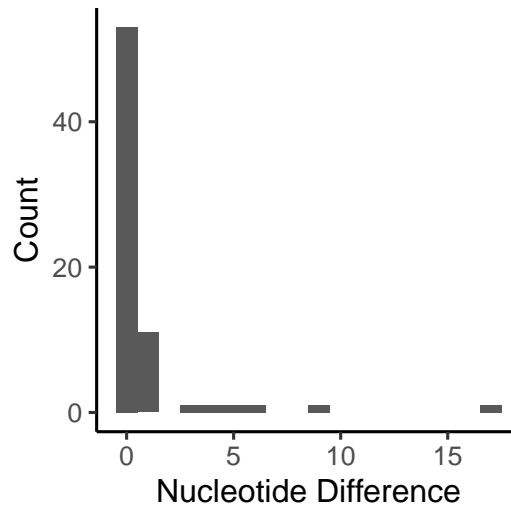
IGHV3-33*01

209 sequences assigned
166 (79.4%) exact matches, in which:
166 unique CDR3
6 unique J



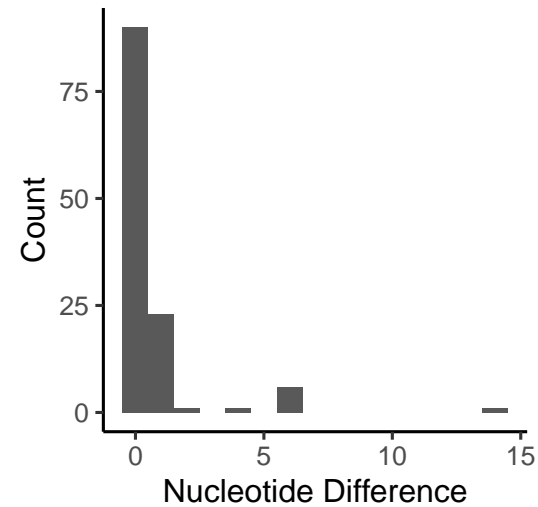
IGHV3-49*03

71 sequences assigned
53 (74.6%) exact matches, in which:
53 unique CDR3
5 unique J



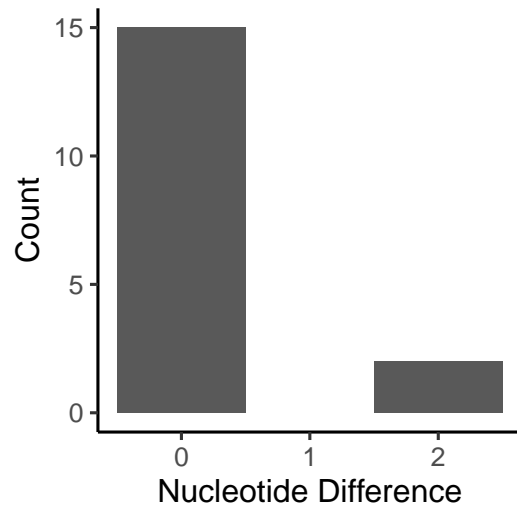
IGHV3-66*01

123 sequences assigned
90 (73.2%) exact matches, in which:
90 unique CDR3
6 unique J



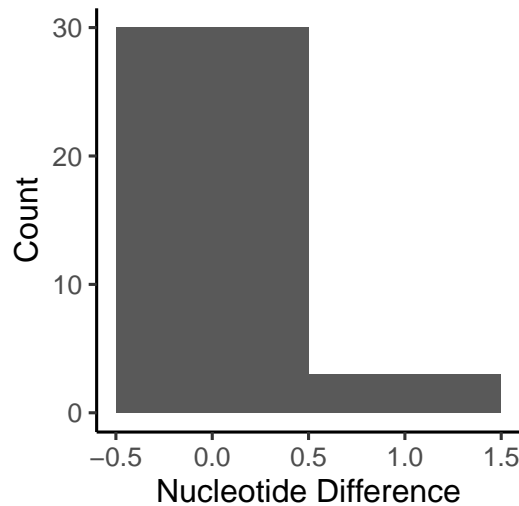
IGHV3-43*01

17 sequences assigned
15 (88.2%) exact matches, in which:
15 unique CDR3
2 unique J



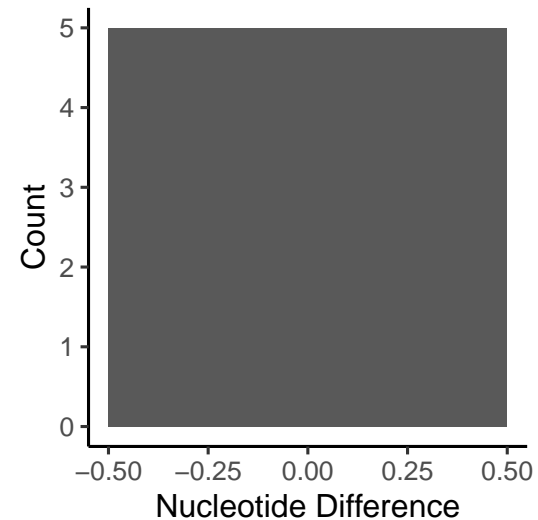
IGHV3-53*02

33 sequences assigned
30 (90.9%) exact matches, in which:
30 unique CDR3
4 unique J



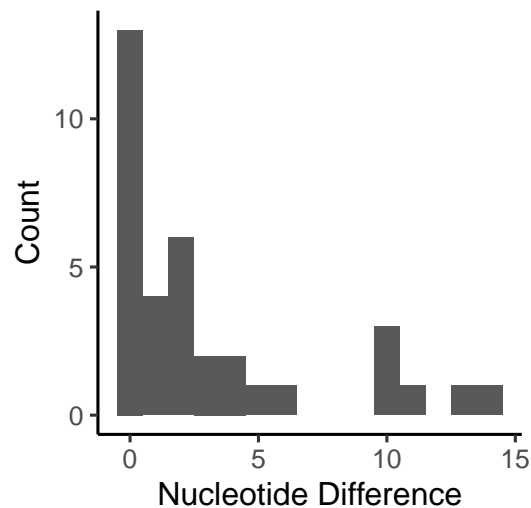
IGHV3-72*01

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



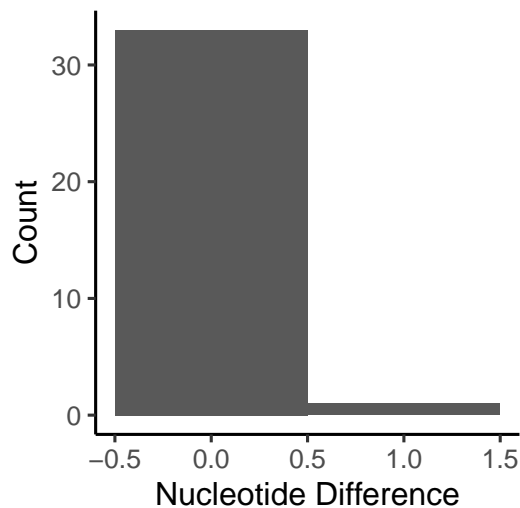
IGHV3-73*01

35 sequences assigned
13 (37.1%) exact matches, in which:
13 unique CDR3
3 unique J



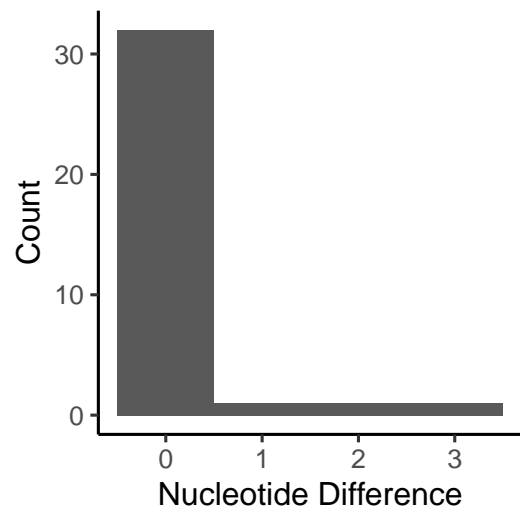
IGHV4-4*02

34 sequences assigned
33 (97.1%) exact matches, in which:
33 unique CDR3
5 unique J



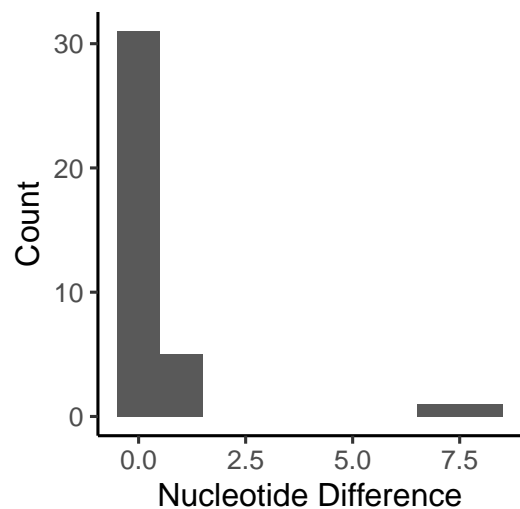
IGHV4-30-2*01

35 sequences assigned
32 (91.4%) exact matches, in which:
32 unique CDR3
6 unique J



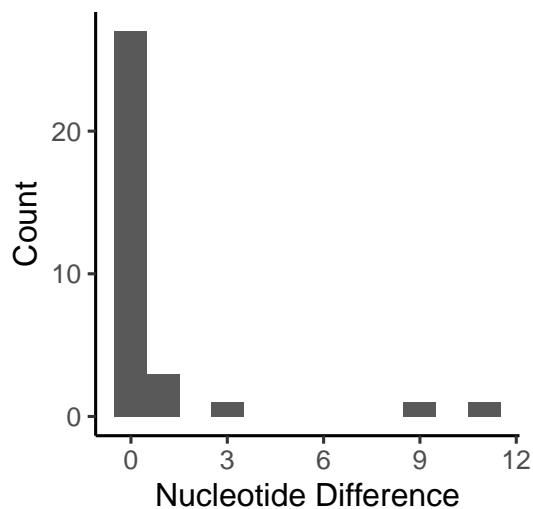
IGHV3-74*01

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



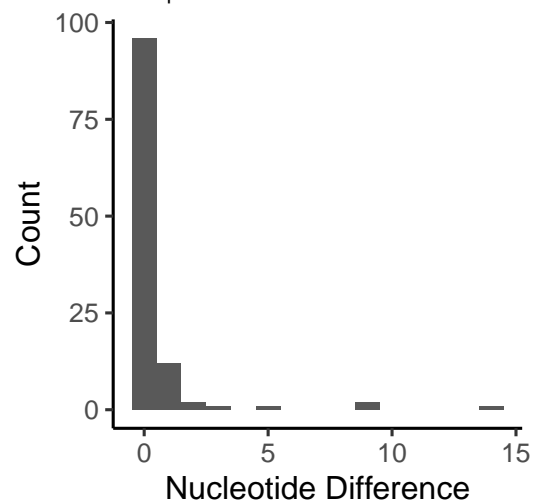
IGHV4-4*07

33 sequences assigned
27 (81.8%) exact matches, in which:
27 unique CDR3
4 unique J



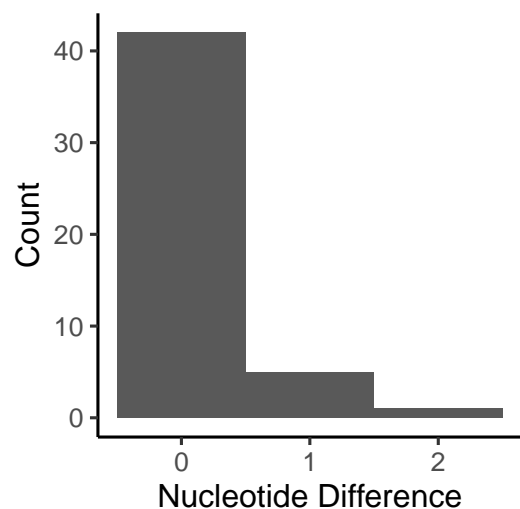
IGHV4-31*03

115 sequences assigned
96 (83.5%) exact matches, in which:
96 unique CDR3
5 unique J



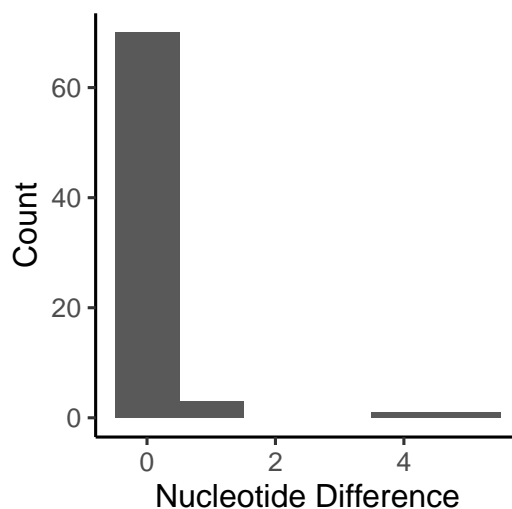
IGHV3-64D*06

48 sequences assigned
42 (87.5%) exact matches, in which:
42 unique CDR3
5 unique J



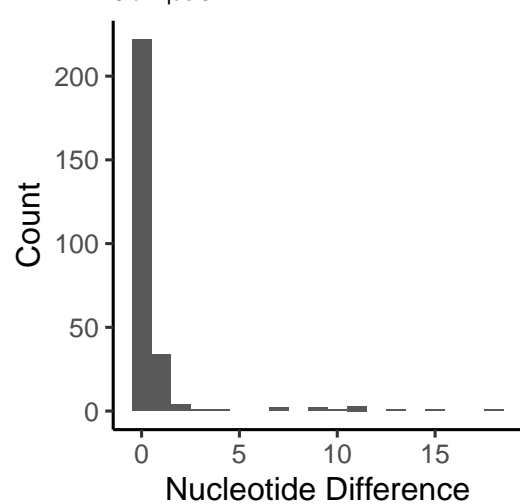
IGHV4-30-4*01

75 sequences assigned
70 (93.3%) exact matches, in which:
70 unique CDR3
4 unique J



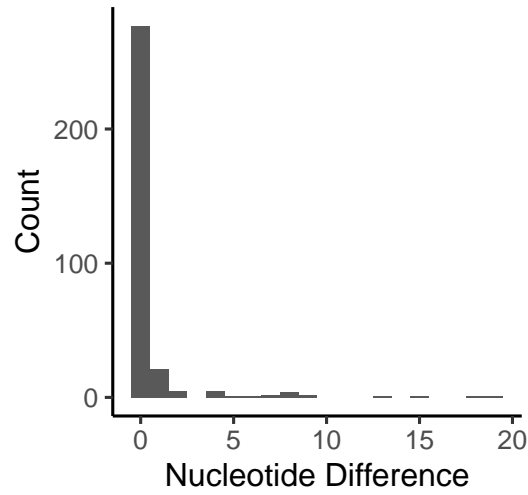
IGHV4-34*01

273 sequences assigned
222 (81.3%) exact matches, in which:
221 unique CDR3
6 unique J



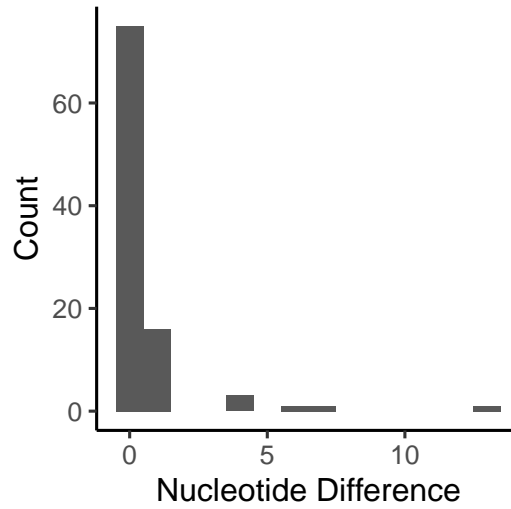
IGHV4-39*01

322 sequences assigned
277 (86%) exact matches, in which:
276 unique CDR3
6 unique J



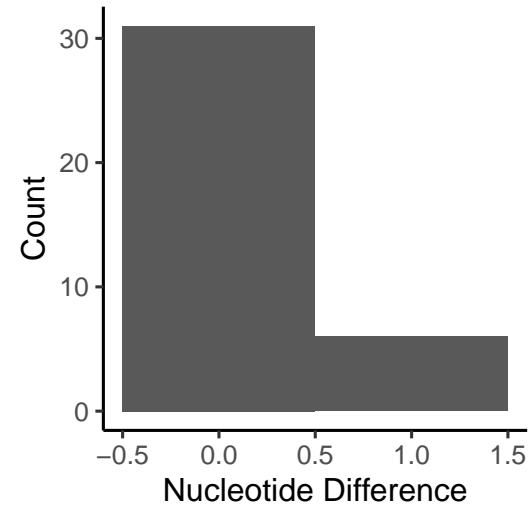
IGHV5-10-1*03

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



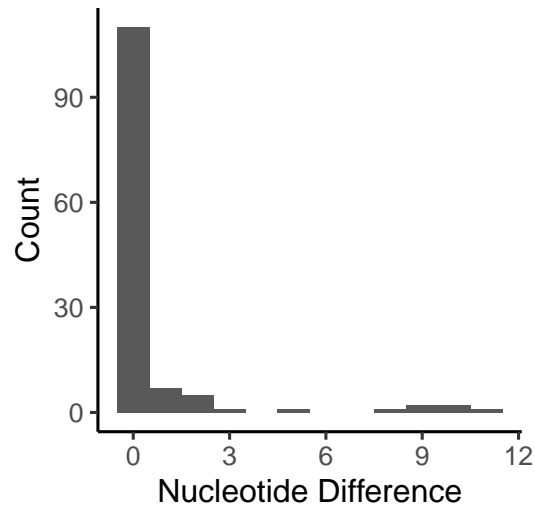
IGHV7-4-1*02

37 sequences assigned
31 (83.8%) exact matches, in which:
31 unique CDR3
5 unique J



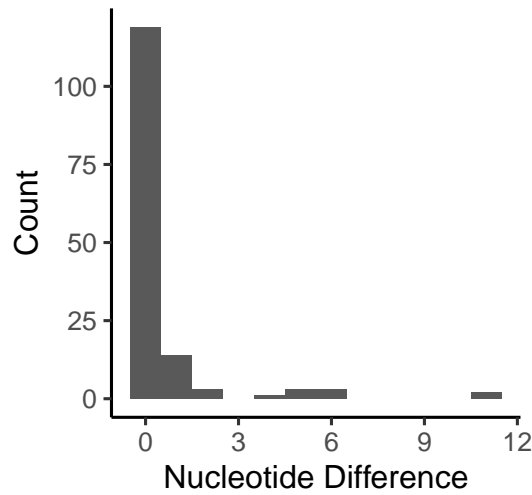
IGHV4-59*01

131 sequences assigned
110 (84%) exact matches, in which:
110 unique CDR3
6 unique J



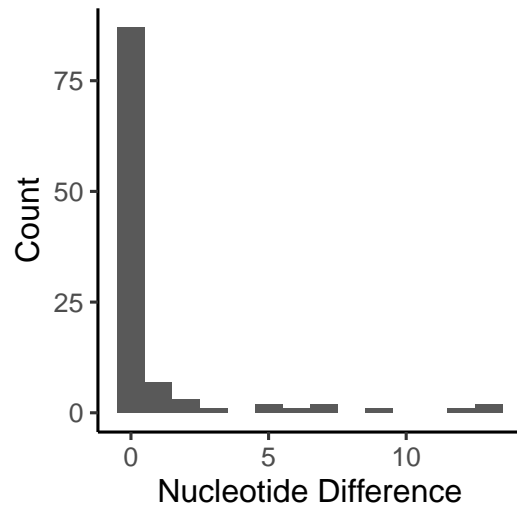
IGHV5-51*01_C45G

145 sequences assigned
119 (82.1%) exact matches, in which:
119 unique CDR3
6 unique J



IGHV4-59*08

108 sequences assigned
87 (80.6%) exact matches, in which:
87 unique CDR3
6 unique J



IGHV6-1*01

30 sequences assigned
27 (90%) exact matches, in which:
27 unique CDR3
5 unique J

