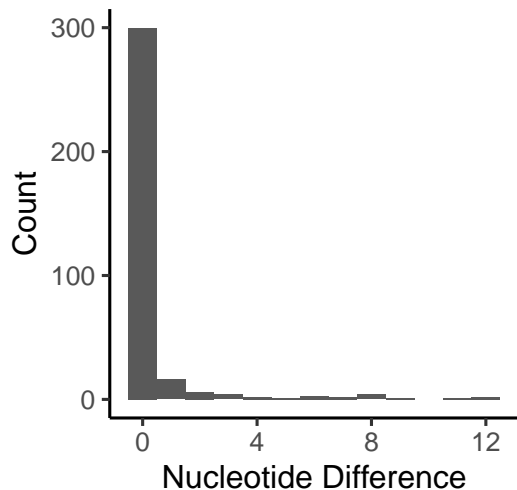


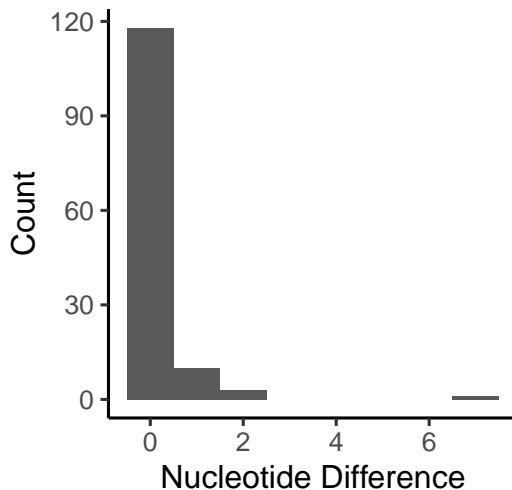
IGHV1-2*02

344 sequences assigned
300 (87.2%) exact matches, in which:
300 unique CDR3
6 unique J



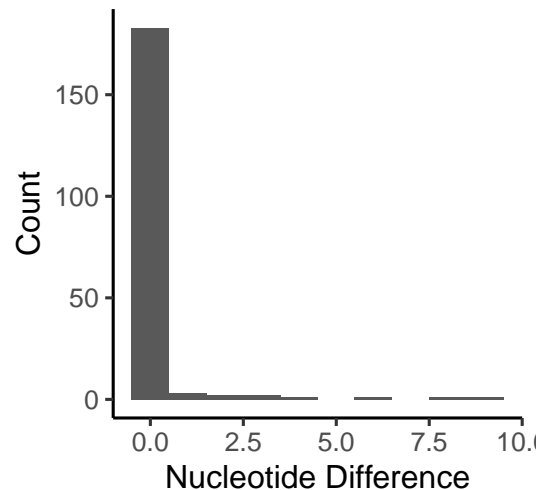
IGHV1-8*01

132 sequences assigned
118 (89.4%) exact matches, in which:
118 unique CDR3
5 unique J



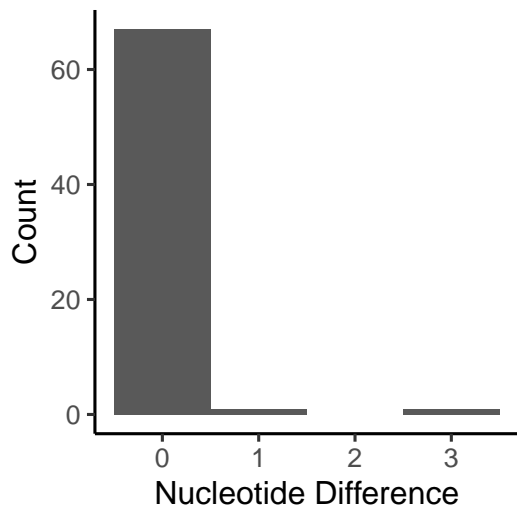
IGHV1-24*01

194 sequences assigned
183 (94.3%) exact matches, in which:
182 unique CDR3
6 unique J



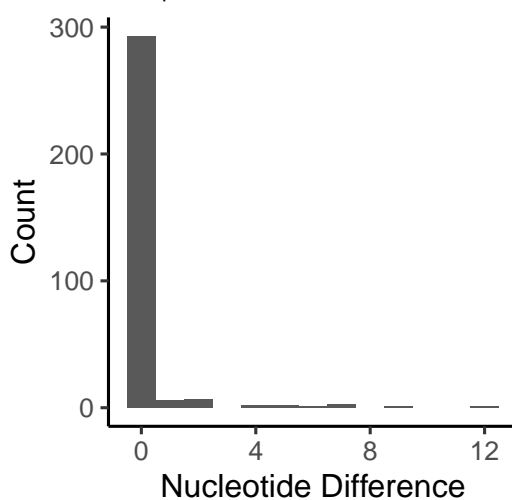
IGHV1-2*04

69 sequences assigned
67 (97.1%) exact matches, in which:
67 unique CDR3
5 unique J



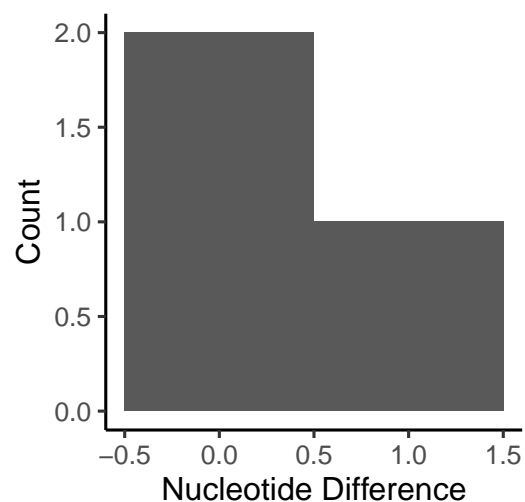
IGHV1-18*01

316 sequences assigned
293 (92.7%) exact matches, in which:
293 unique CDR3
7 unique J



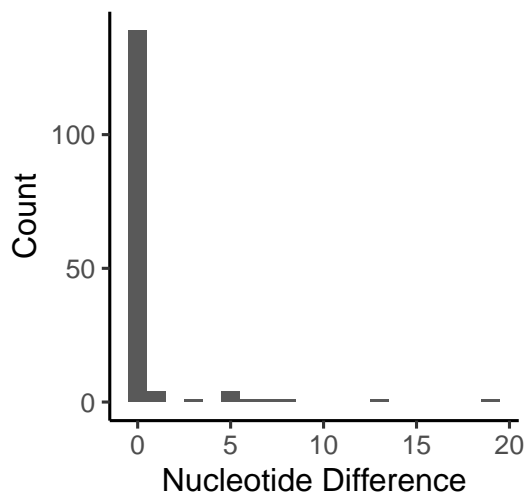
IGHV1-45*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



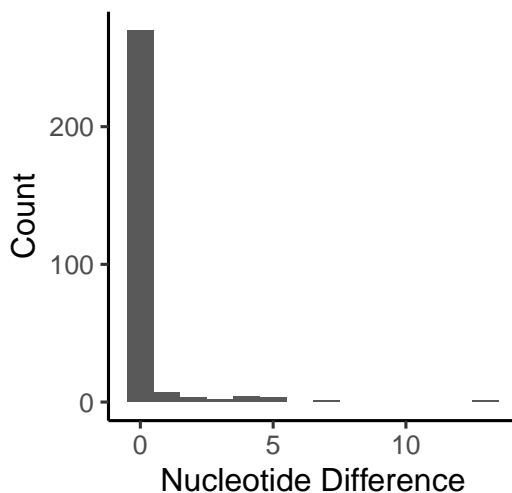
IGHV1-3*01

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



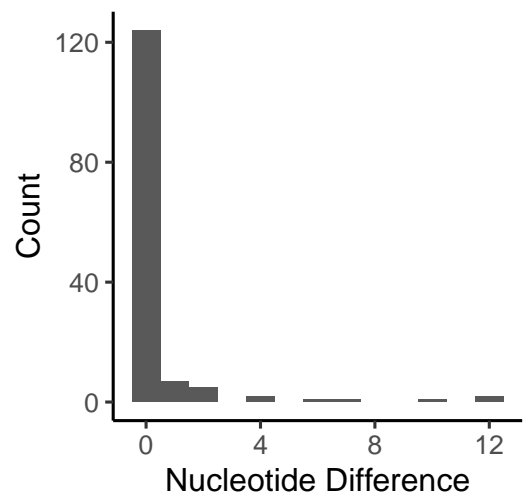
IGHV1-18*04

291 sequences assigned
270 (92.8%) exact matches, in which:
270 unique CDR3
7 unique J



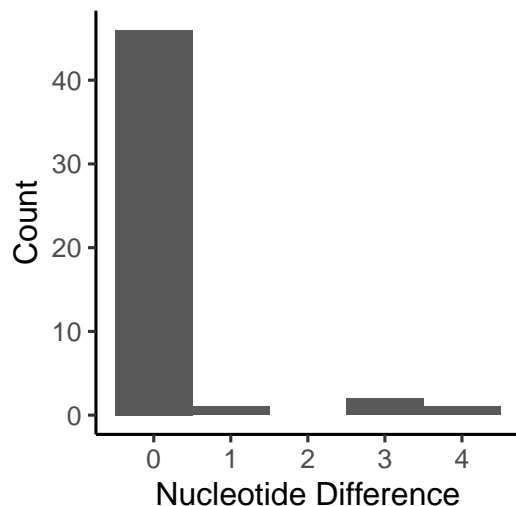
IGHV1-46*01

143 sequences assigned
124 (86.7%) exact matches, in which:
124 unique CDR3
7 unique J



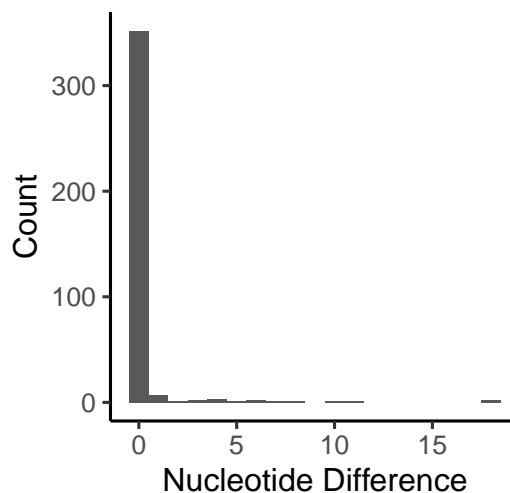
IGHV1-46*03

50 sequences assigned
46 (92%) exact matches, in which:
46 unique CDR3
6 unique J



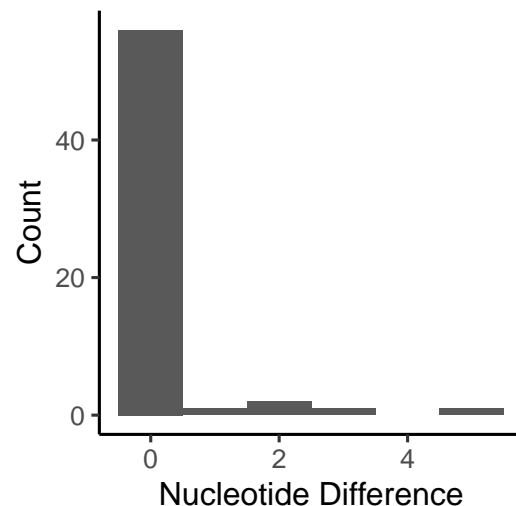
IGHV1-69*06

382 sequences assigned
352 (92.1%) exact matches, in which:
352 unique CDR3
7 unique J



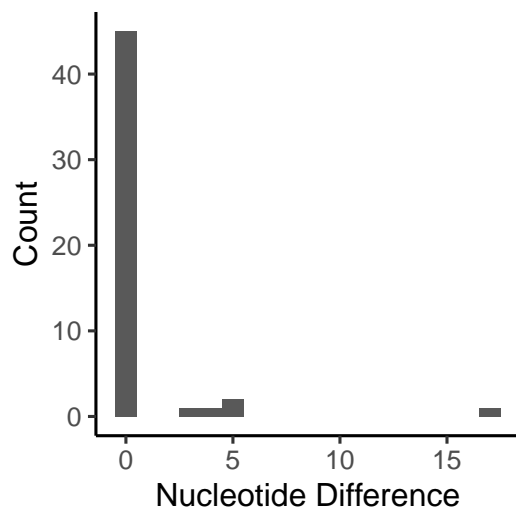
IGHV2-26*01

61 sequences assigned
56 (91.8%) exact matches, in which:
56 unique CDR3
6 unique J



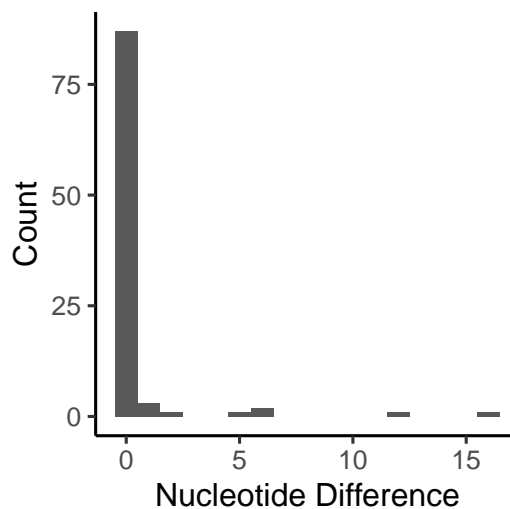
IGHV1-58*01

51 sequences assigned
45 (88.2%) exact matches, in which:
45 unique CDR3
5 unique J



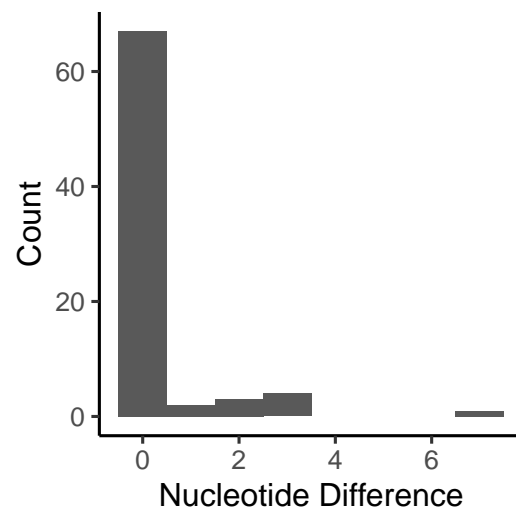
IGHV2-5*01

96 sequences assigned
87 (90.6%) exact matches, in which:
87 unique CDR3
5 unique J



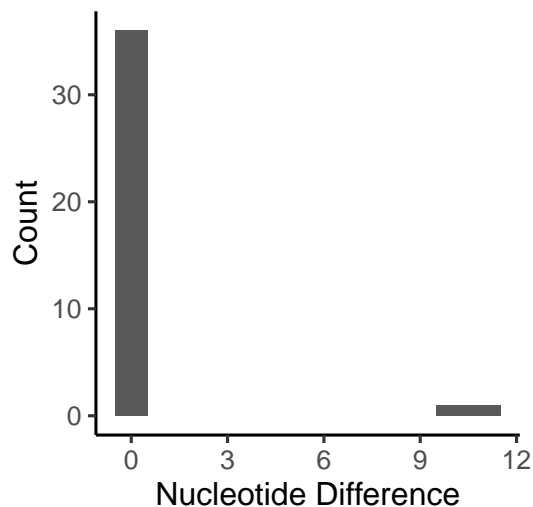
IGHV2-70*01

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



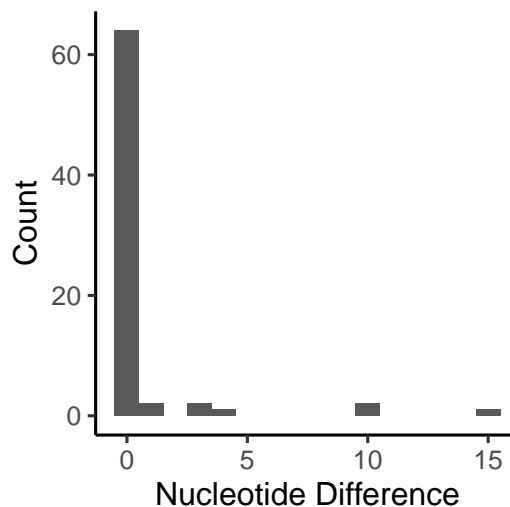
IGHV1-69-2*01

38 sequences assigned
36 (94.7%) exact matches, in which:
36 unique CDR3
5 unique J



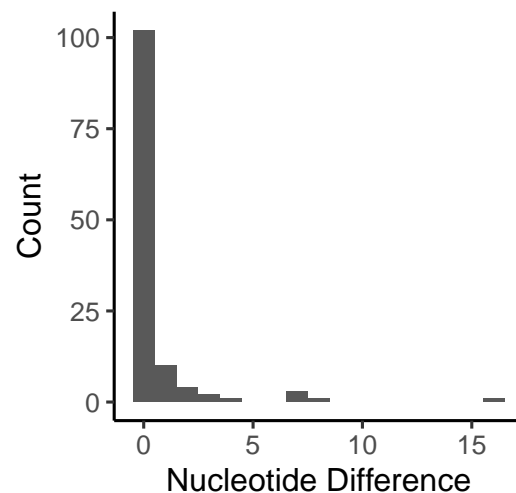
IGHV2-5*02

72 sequences assigned
64 (88.9%) exact matches, in which:
64 unique CDR3
5 unique J



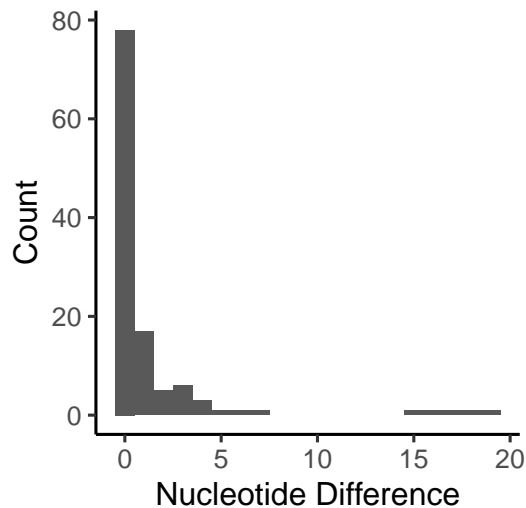
IGHV3-7*01

125 sequences assigned
102 (81.6%) exact matches, in which:
102 unique CDR3
5 unique J



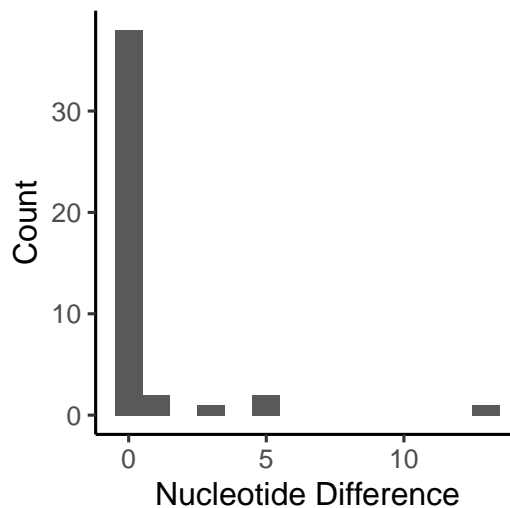
IGHV3-7*03

120 sequences assigned
78 (65%) exact matches, in which:
77 unique CDR3
6 unique J



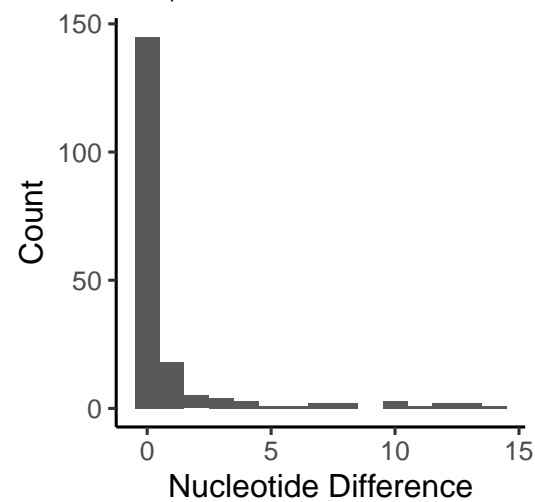
IGHV3-11*06

44 sequences assigned
38 (86.4%) exact matches, in which:
38 unique CDR3
4 unique J



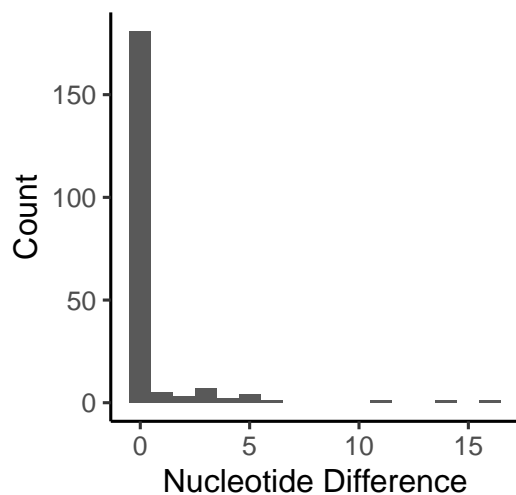
IGHV3-15*01

192 sequences assigned
145 (75.5%) exact matches, in which:
145 unique CDR3
7 unique J



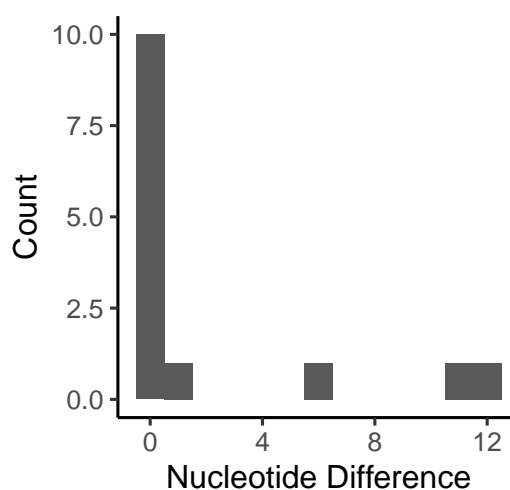
IGHV3-9*01

206 sequences assigned
181 (87.9%) exact matches, in which:
181 unique CDR3
7 unique J



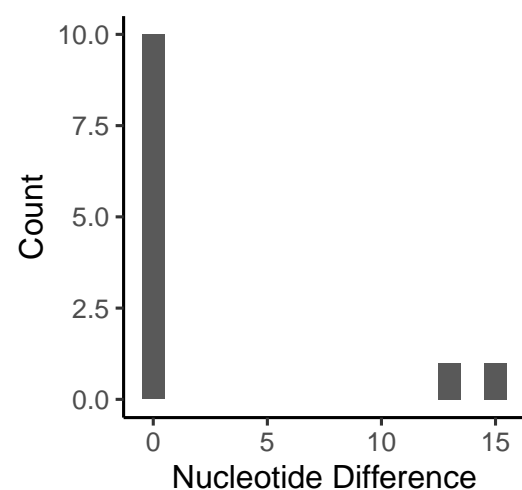
IGHV3-13*01

14 sequences assigned
10 (71.4%) exact matches, in which:
10 unique CDR3
5 unique J



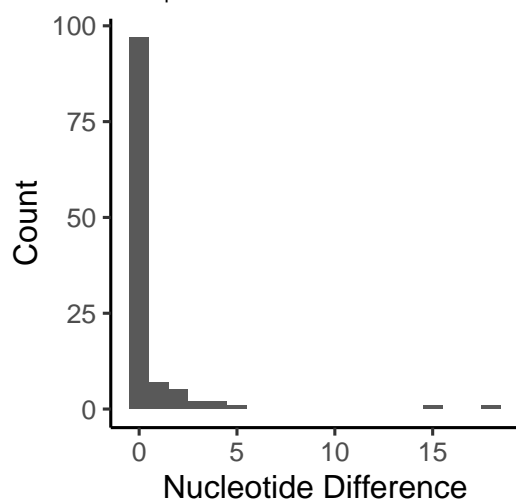
IGHV3-20*01

12 sequences assigned
10 (83.3%) exact matches, in which:
10 unique CDR3
3 unique J



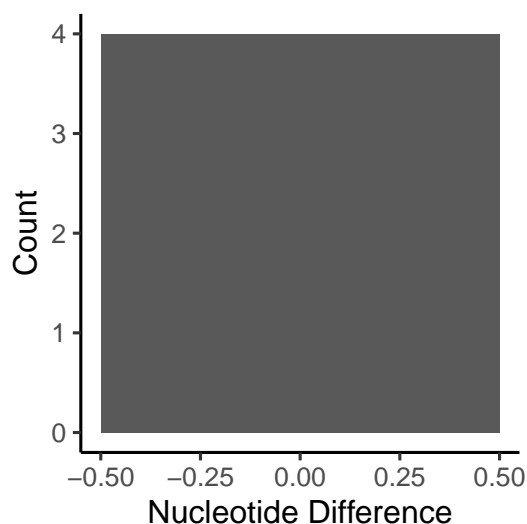
IGHV3-11*01

117 sequences assigned
97 (82.9%) exact matches, in which:
97 unique CDR3
7 unique J



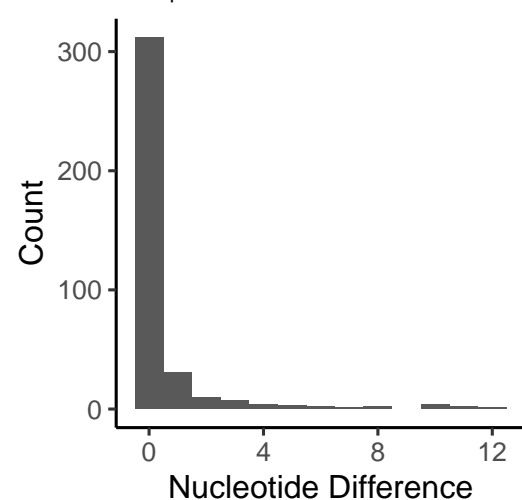
IGHV3-13*05

4 sequences assigned
4 (100%) exact matches, in which:
4 unique CDR3
3 unique J



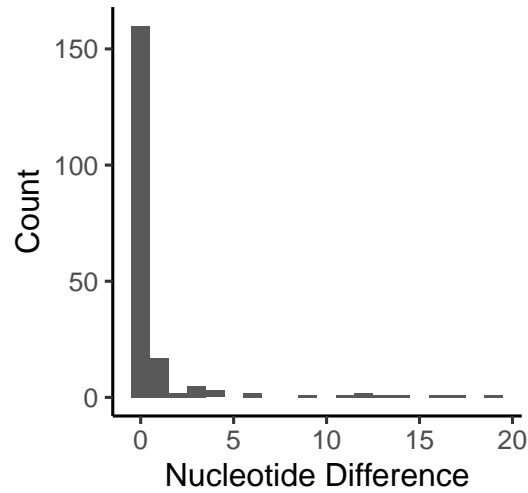
IGHV3-21*01

380 sequences assigned
312 (82.1%) exact matches, in which:
312 unique CDR3
7 unique J



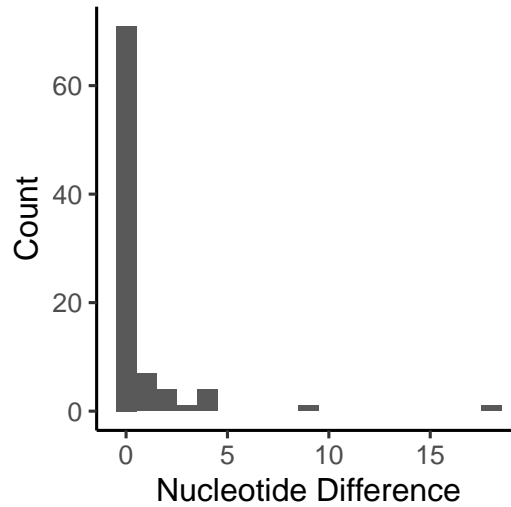
IGHV3-30-3*01

200 sequences assigned
160 (80%) exact matches, in which:
160 unique CDR3
7 unique J



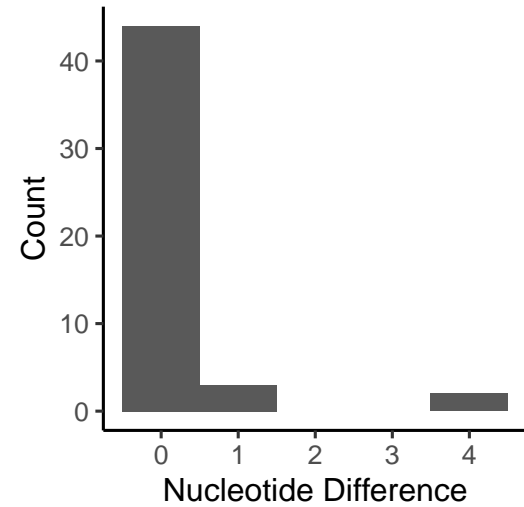
IGHV3-48*01

89 sequences assigned
71 (79.8%) exact matches, in which:
71 unique CDR3
6 unique J



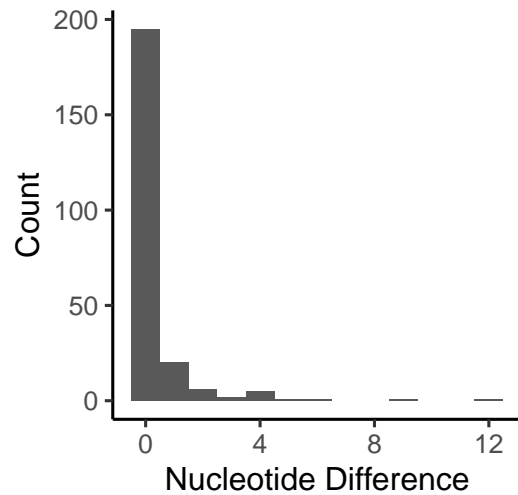
IGHV3-49*05

49 sequences assigned
44 (89.8%) exact matches, in which:
44 unique CDR3
5 unique J



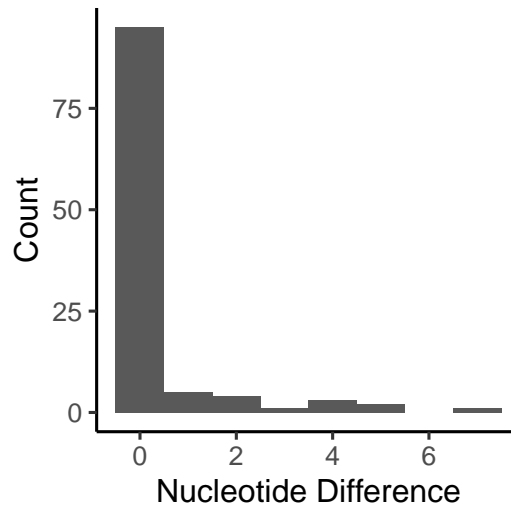
IGHV3-33*01

233 sequences assigned
195 (83.7%) exact matches, in which:
195 unique CDR3
7 unique J



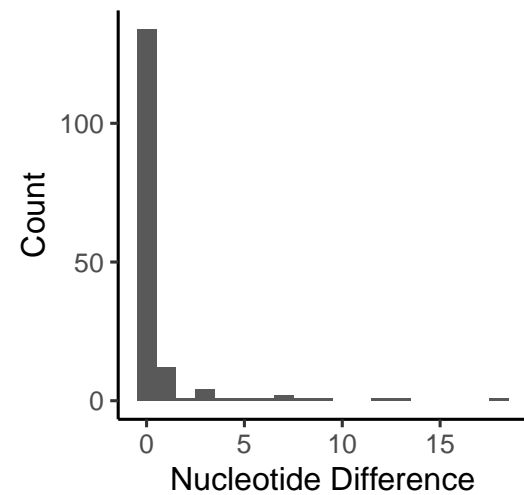
IGHV3-48*02

111 sequences assigned
95 (85.6%) exact matches, in which:
95 unique CDR3
6 unique J



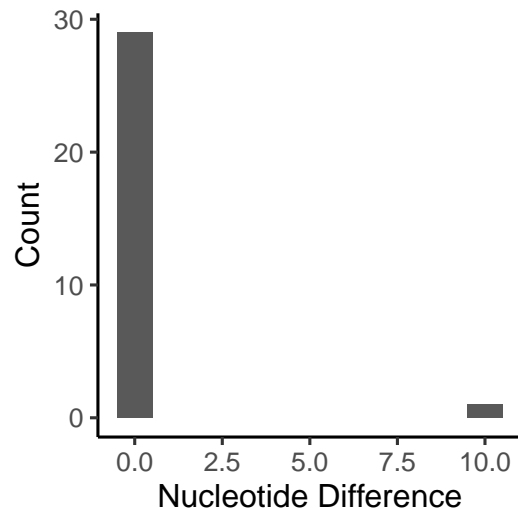
IGHV3-53*01

164 sequences assigned
134 (81.7%) exact matches, in which:
133 unique CDR3
6 unique J



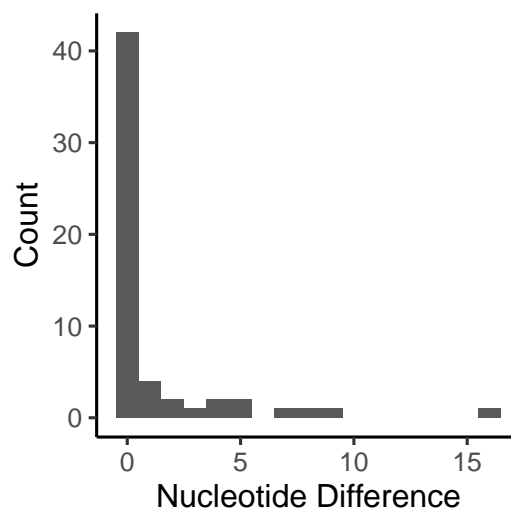
IGHV3-43*01

30 sequences assigned
29 (96.7%) exact matches, in which:
29 unique CDR3
4 unique J



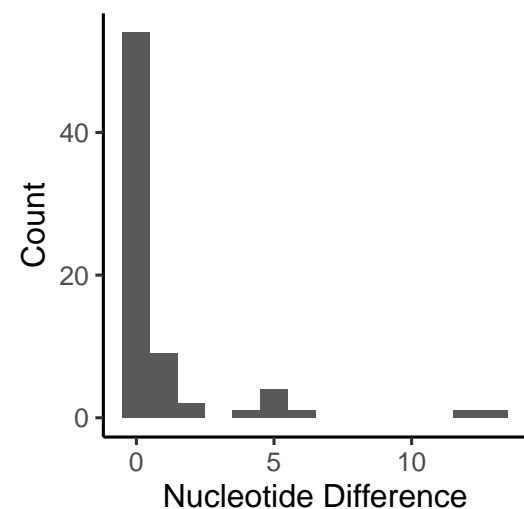
IGHV3-49*03

58 sequences assigned
42 (72.4%) exact matches, in which:
42 unique CDR3
6 unique J



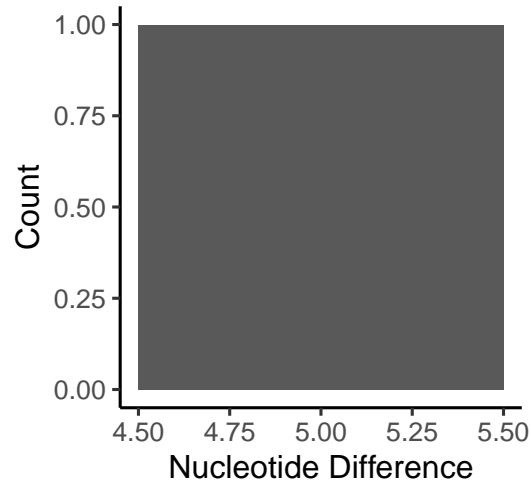
IGHV3-53*02

74 sequences assigned
54 (73%) exact matches, in which:
54 unique CDR3
5 unique J



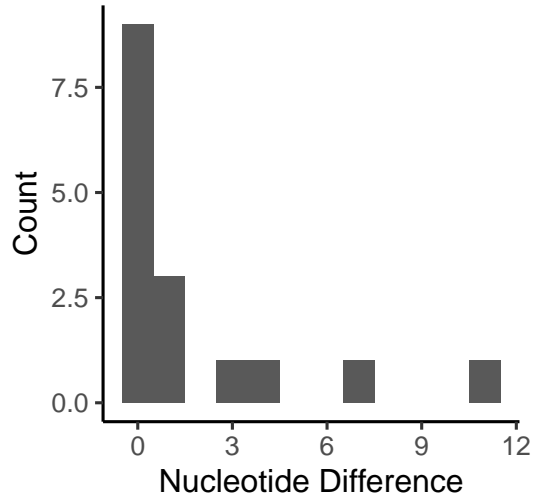
IGHV3-64*02

1 sequences assigned
No exact matches.



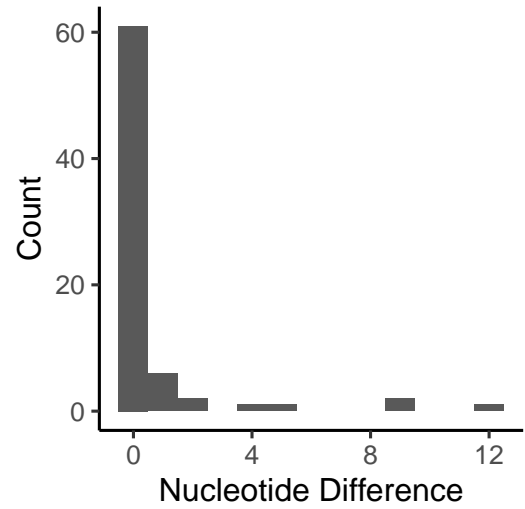
IGHV3-72*01

16 sequences assigned
9 (56.2%) exact matches, in which:
9 unique CDR3
3 unique J



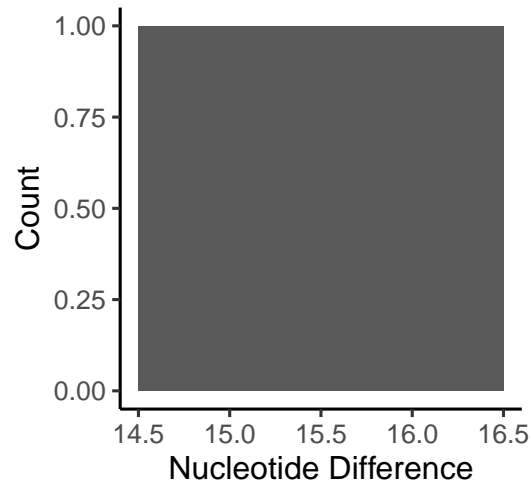
IGHV3-64D*09

74 sequences assigned
61 (82.4%) exact matches, in which:
61 unique CDR3
5 unique J



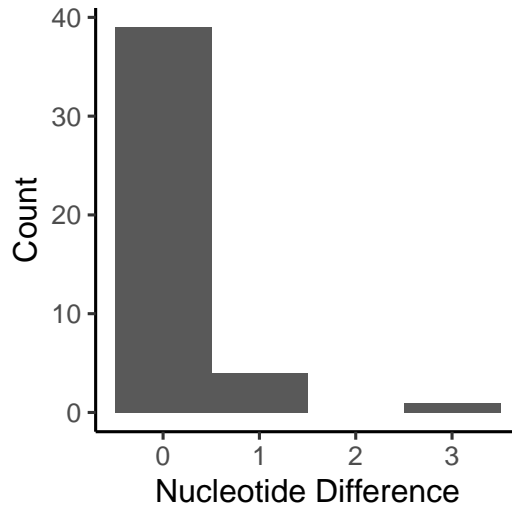
IGHV3-64*04

2 sequences assigned
No exact matches.



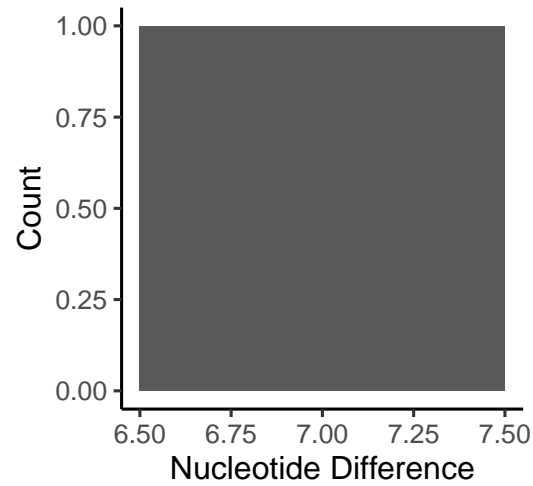
IGHV3-73*02

44 sequences assigned
39 (88.6%) exact matches, in which:
39 unique CDR3
6 unique J



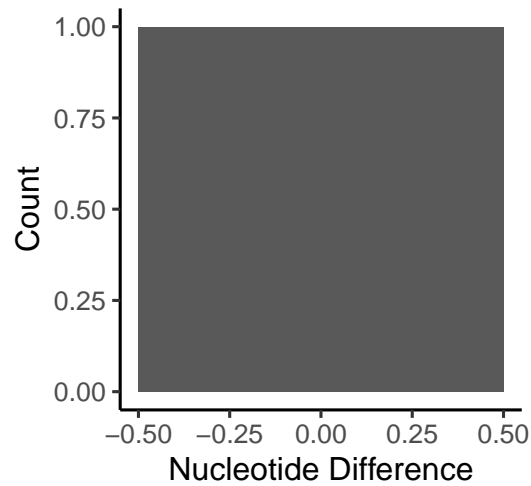
IGHV3-NL1*01

1 sequences assigned
No exact matches.



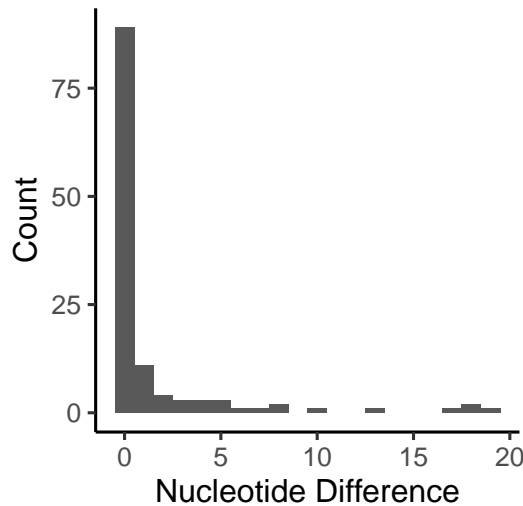
IGHV3-66*03

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



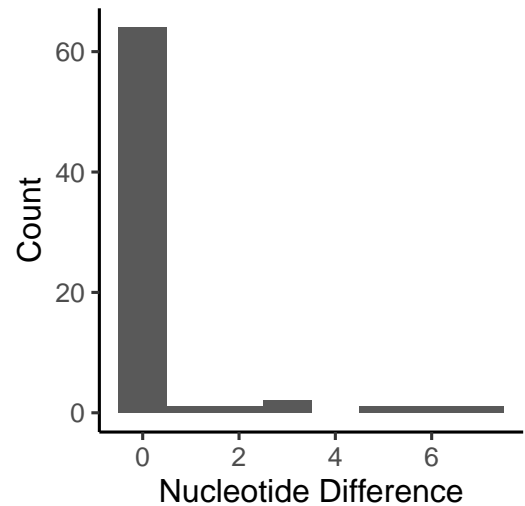
IGHV3-74*01

124 sequences assigned
89 (71.8%) exact matches, in which:
89 unique CDR3
6 unique J



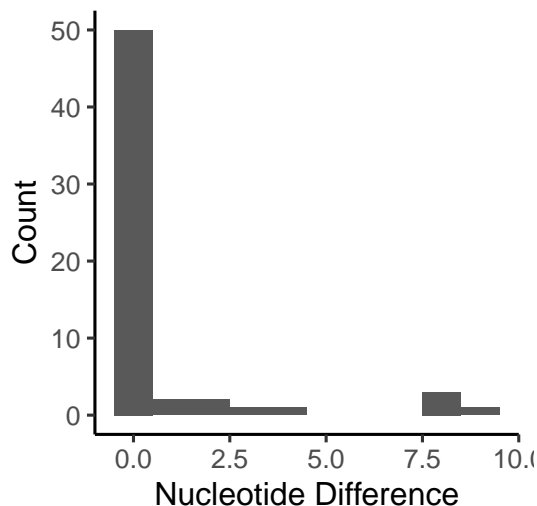
IGHV4-4*02

72 sequences assigned
64 (88.9%) exact matches, in which:
64 unique CDR3
7 unique J



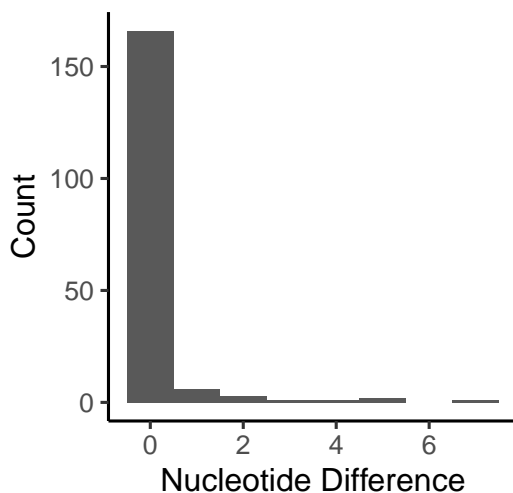
IGHV4-4*07

60 sequences assigned
50 (83.3%) exact matches, in which:
50 unique CDR3
6 unique J



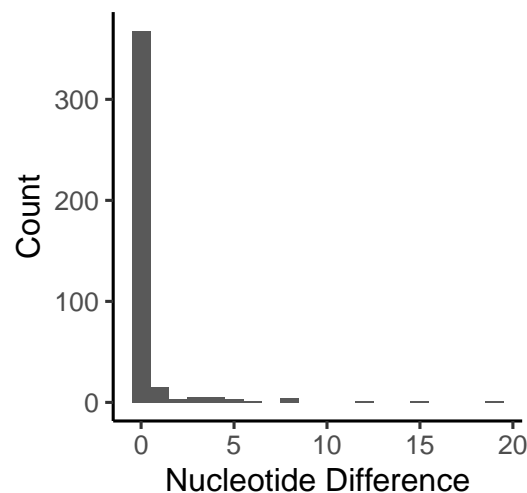
IGHV4-31*03

180 sequences assigned
166 (92.2%) exact matches, in which:
166 unique CDR3
5 unique J



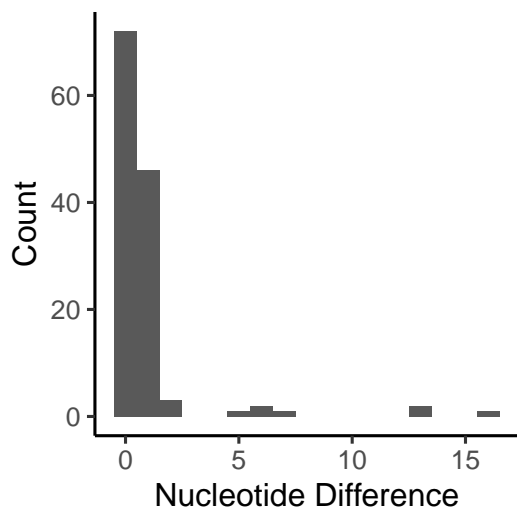
IGHV4-39*07

408 sequences assigned
368 (90.2%) exact matches, in which:
368 unique CDR3
7 unique J



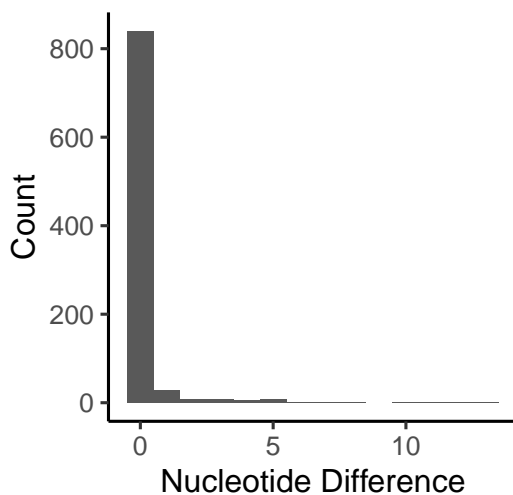
IGHV4-30-2*01

128 sequences assigned
72 (56.2%) exact matches, in which:
72 unique CDR3
7 unique J



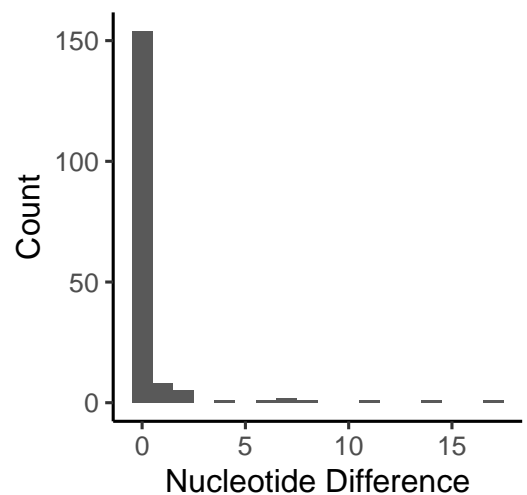
IGHV4-34*01

911 sequences assigned
840 (92.2%) exact matches, in which:
840 unique CDR3
7 unique J



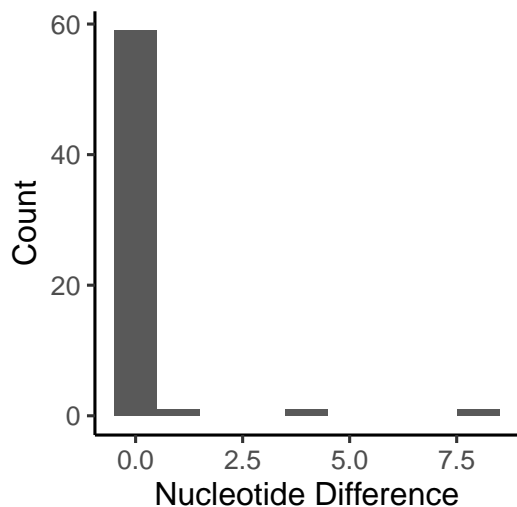
IGHV4-59*01

175 sequences assigned
154 (88%) exact matches, in which:
154 unique CDR3
7 unique J



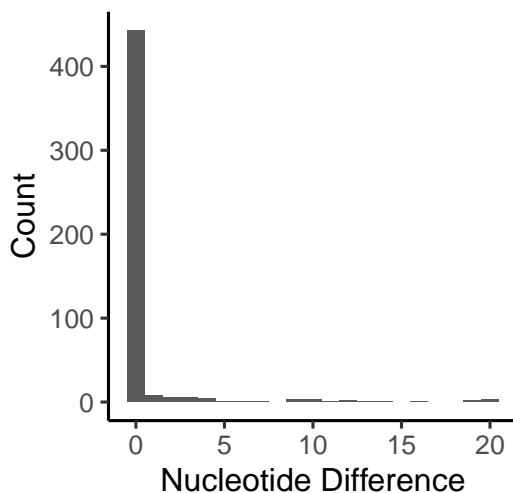
IGHV4-30-4*01

62 sequences assigned
59 (95.2%) exact matches, in which:
59 unique CDR3
6 unique J



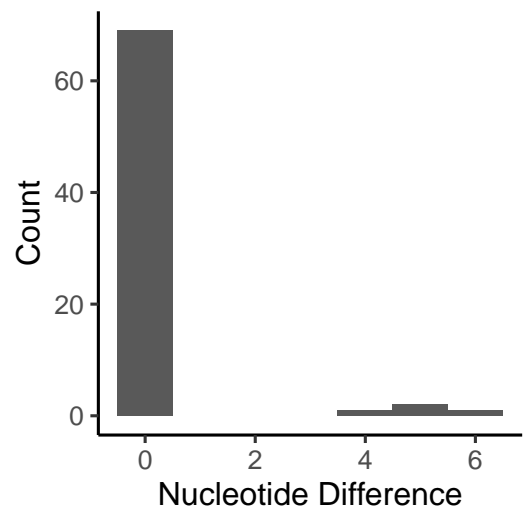
IGHV4-39*01

489 sequences assigned
443 (90.6%) exact matches, in which:
443 unique CDR3
7 unique J



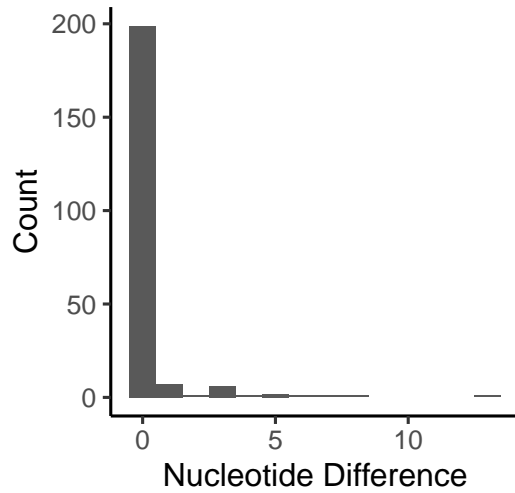
IGHV4-61*01

73 sequences assigned
69 (94.5%) exact matches, in which:
69 unique CDR3
6 unique J



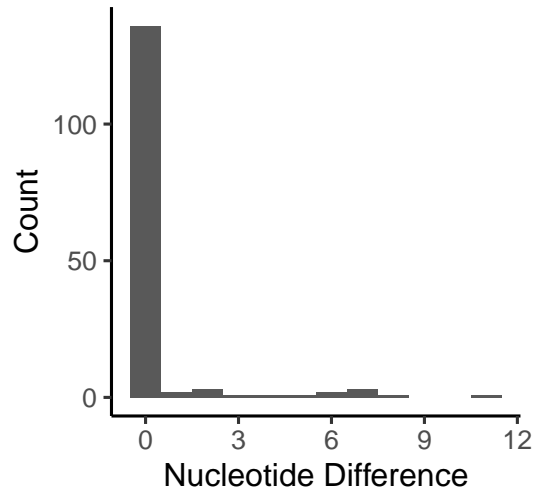
IGHV5-10-1*03

220 sequences assigned
199 (90.5%) exact matches, in which:
199 unique CDR3
7 unique J



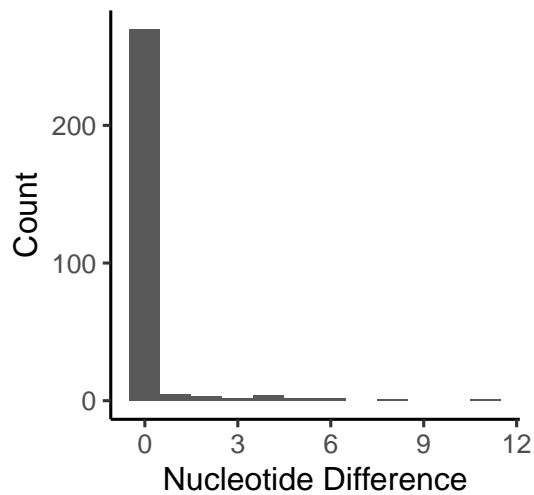
IGHV6-1*01

151 sequences assigned
136 (90.1%) exact matches, in which:
136 unique CDR3
7 unique J



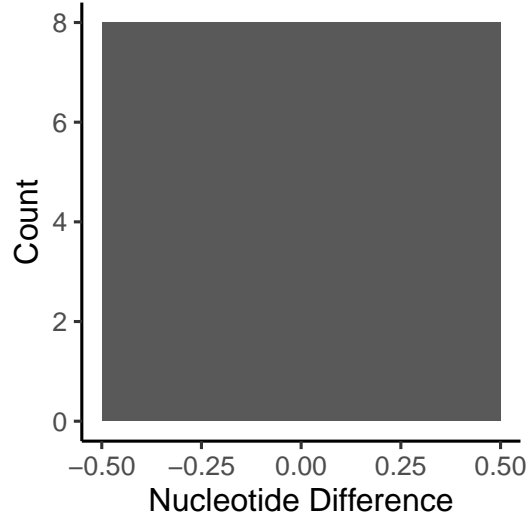
IGHV5-51*01

290 sequences assigned
270 (93.1%) exact matches, in which:
270 unique CDR3
7 unique J



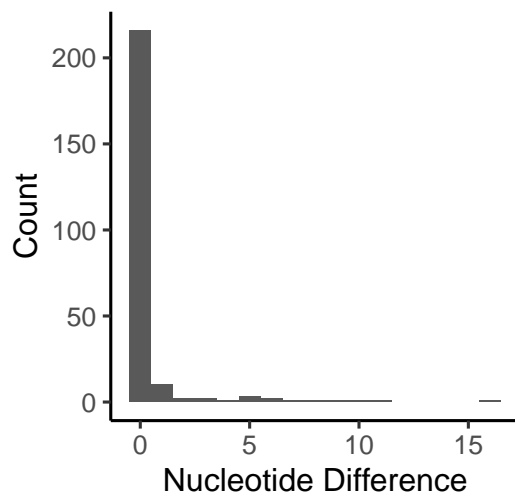
IGHV7-4-1*01

8 sequences assigned
8 (100%) exact matches, in which:
8 unique CDR3
4 unique J

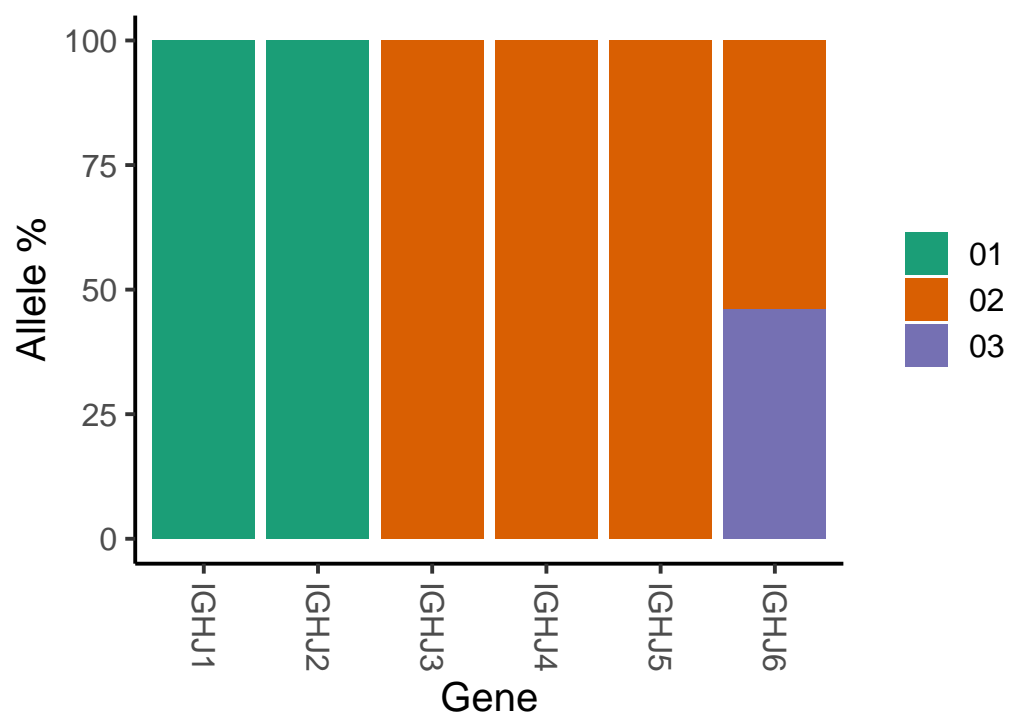


IGHV5-51*01_C45G

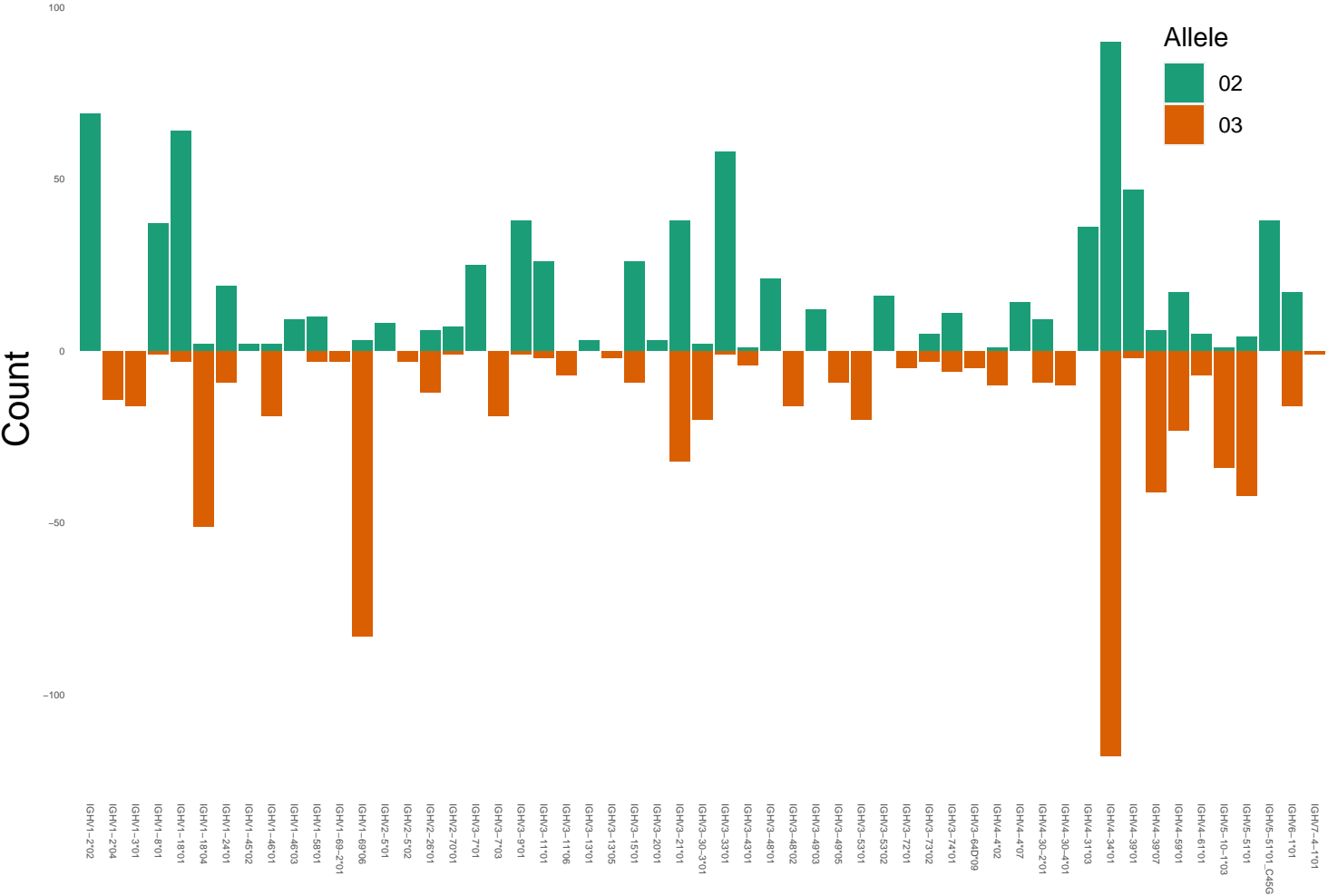
242 sequences assigned
216 (89.3%) exact matches, in which:
216 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.