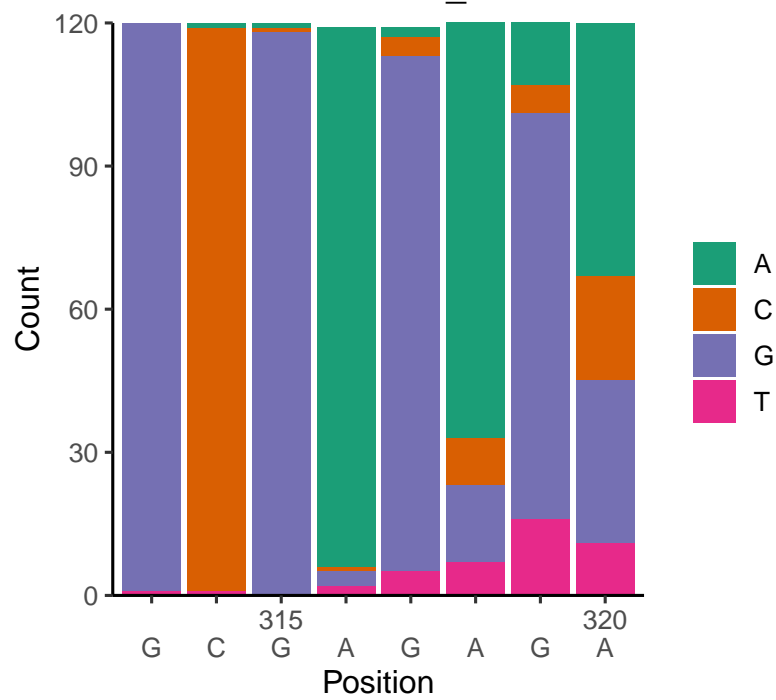
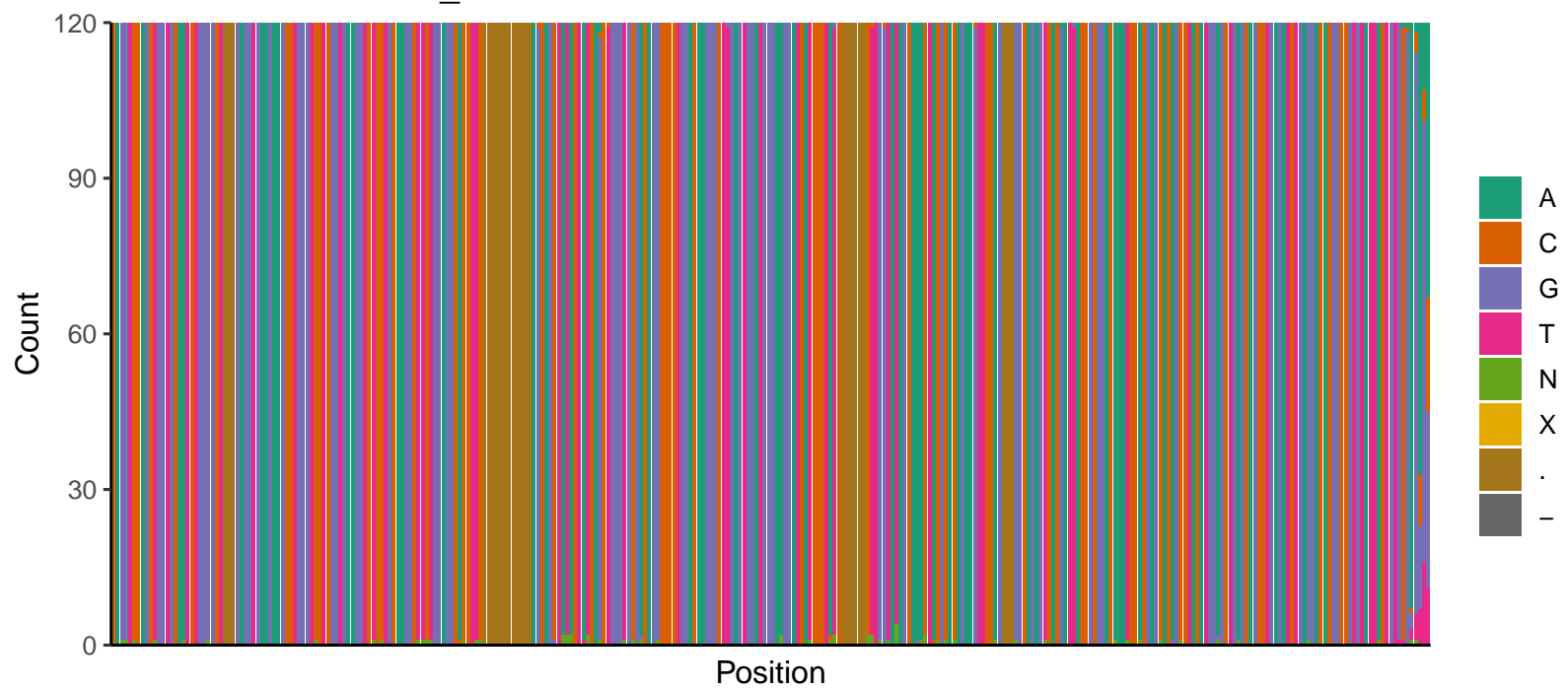


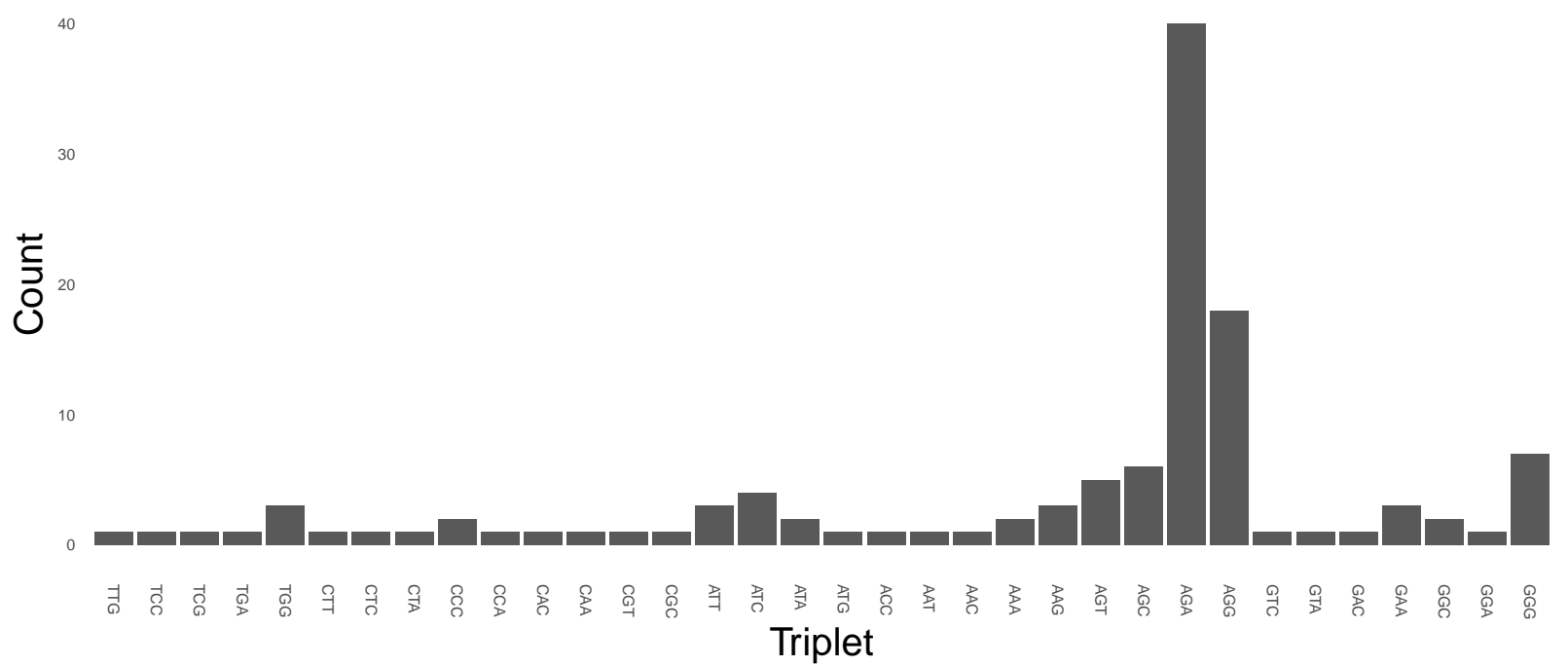
Gene IGHV1-69*08_C191T



Gene IGHV1-69*08_C191T

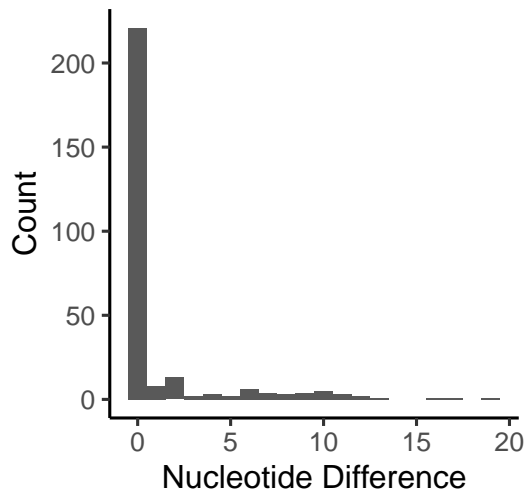


IGHV1-69*08_C191T- Final 3 nucleotides as a triplet



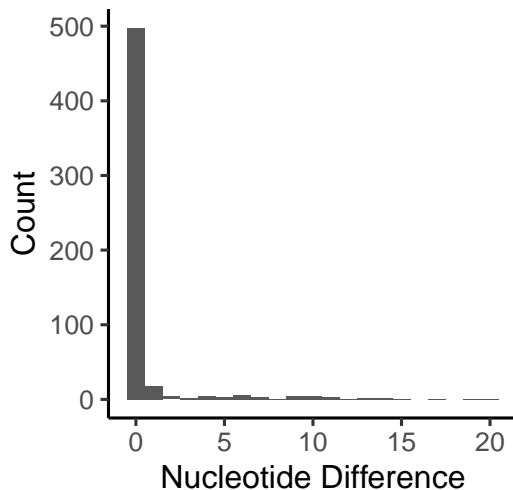
IGHV1-2*02

288 sequences assigned
221 (76.7%) exact matches, in which:
220 unique CDR3
6 unique J



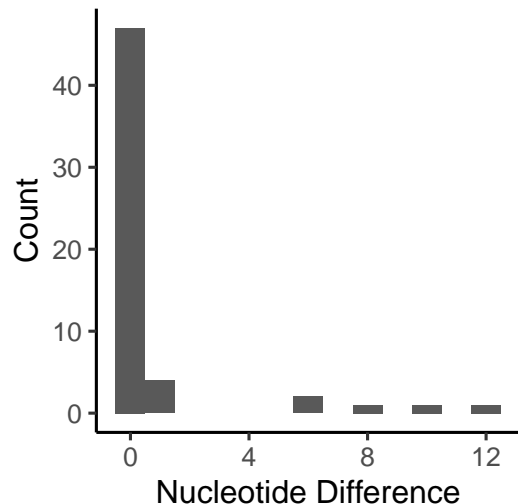
IGHV1-18*01

572 sequences assigned
498 (87.1%) exact matches, in which:
498 unique CDR3
6 unique J



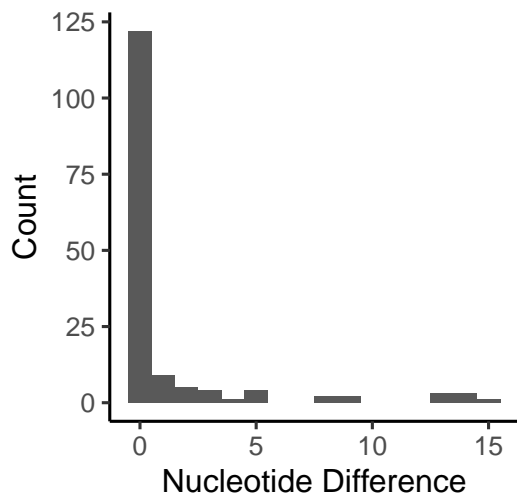
IGHV1-46*01

56 sequences assigned
47 (83.9%) exact matches, in which:
47 unique CDR3
5 unique J



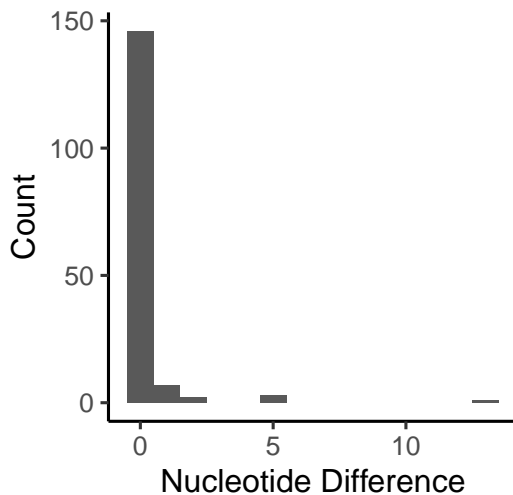
IGHV1-3*01

159 sequences assigned
122 (76.7%) exact matches, in which:
122 unique CDR3
6 unique J



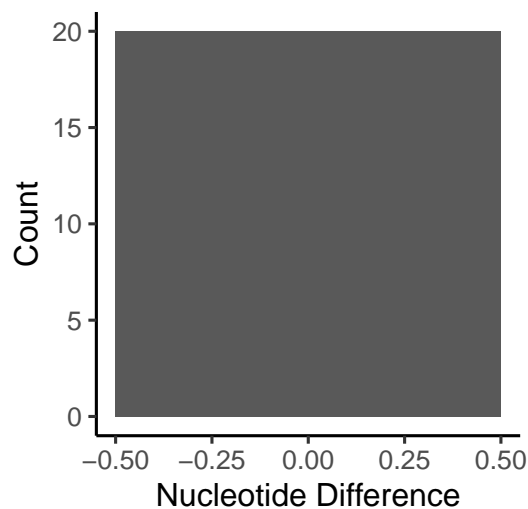
IGHV1-24*01

159 sequences assigned
146 (91.8%) exact matches, in which:
146 unique CDR3
6 unique J



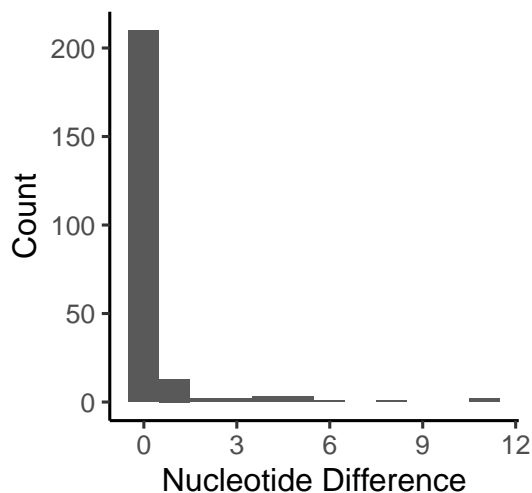
IGHV1-46*03

20 sequences assigned
20 (100%) exact matches, in which:
20 unique CDR3
5 unique J



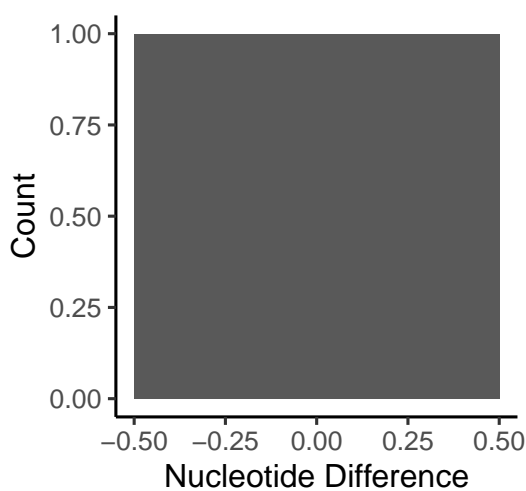
IGHV1-8*01

239 sequences assigned
210 (87.9%) exact matches, in which:
210 unique CDR3
6 unique J



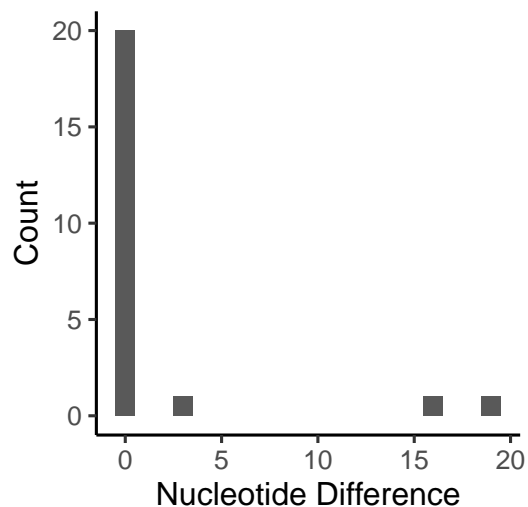
IGHV1-45*02

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



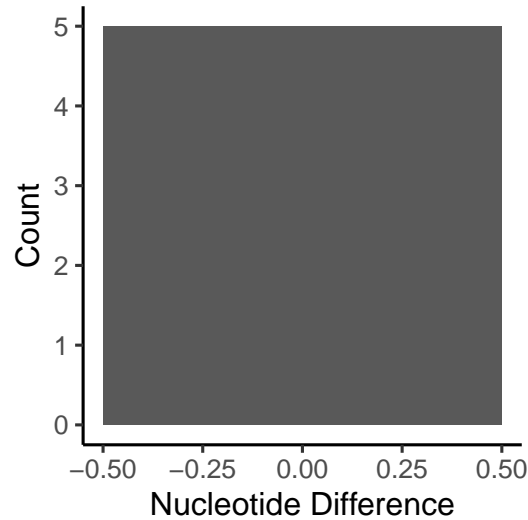
IGHV1-58*01

29 sequences assigned
20 (69%) exact matches, in which:
20 unique CDR3
5 unique J



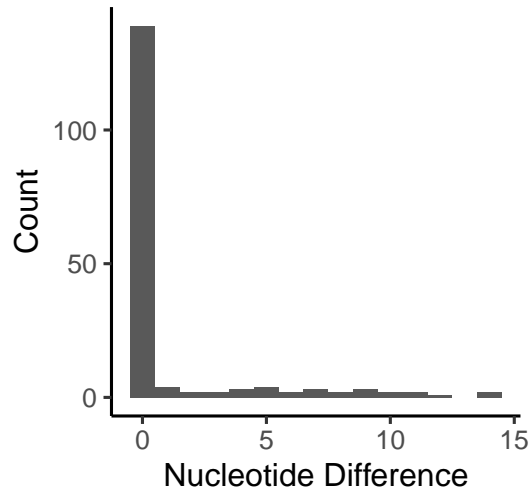
IGHV1-58*02

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



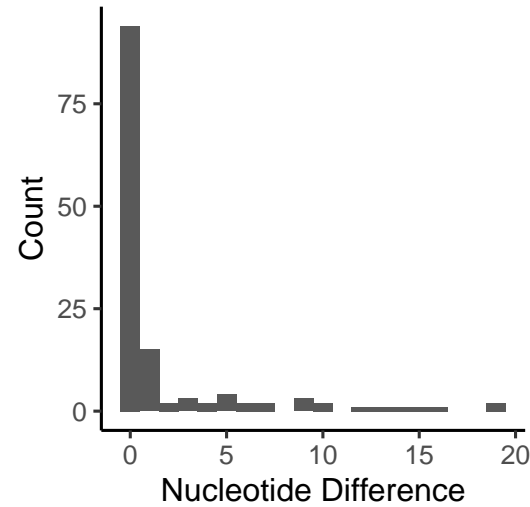
IGHV2-5*01

173 sequences assigned
139 (80.3%) exact matches, in which:
139 unique CDR3
6 unique J



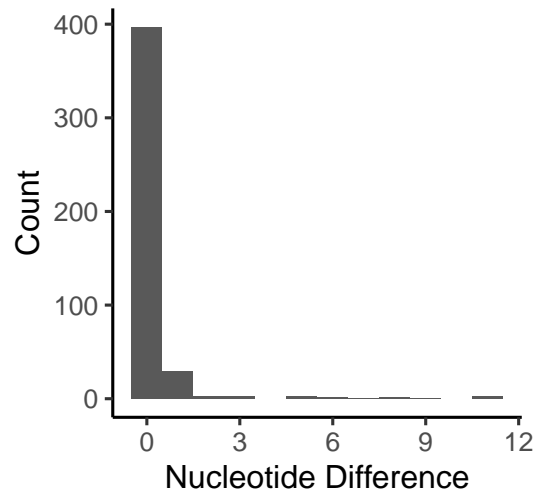
IGHV3-7*01

141 sequences assigned
94 (66.7%) exact matches, in which:
94 unique CDR3
6 unique J



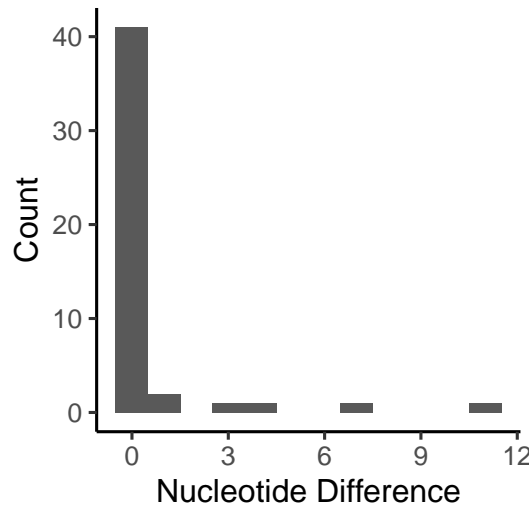
IGHV1-69*01

444 sequences assigned
397 (89.4%) exact matches, in which:
397 unique CDR3
6 unique J



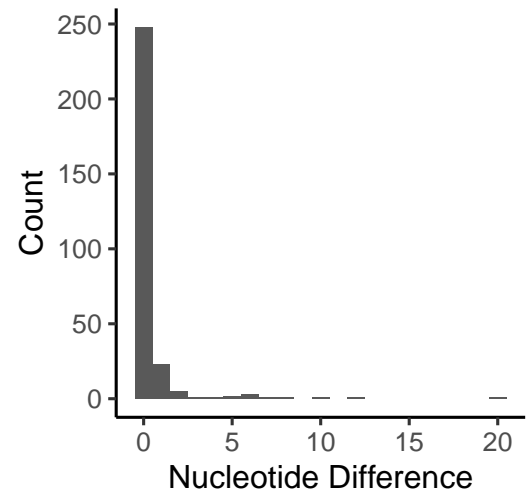
IGHV2-26*01

47 sequences assigned
41 (87.2%) exact matches, in which:
41 unique CDR3
5 unique J



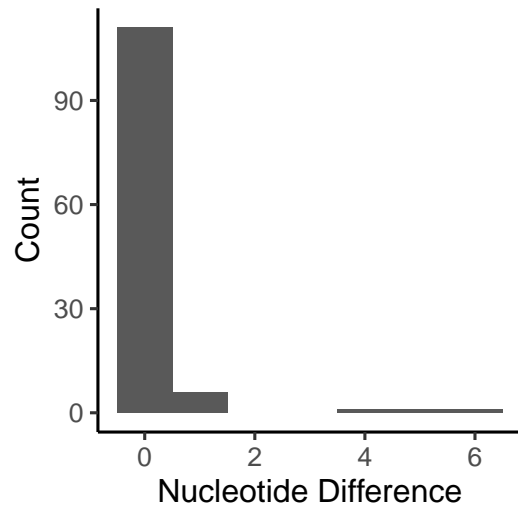
IGHV3-9*01

288 sequences assigned
248 (86.1%) exact matches, in which:
248 unique CDR3
6 unique J



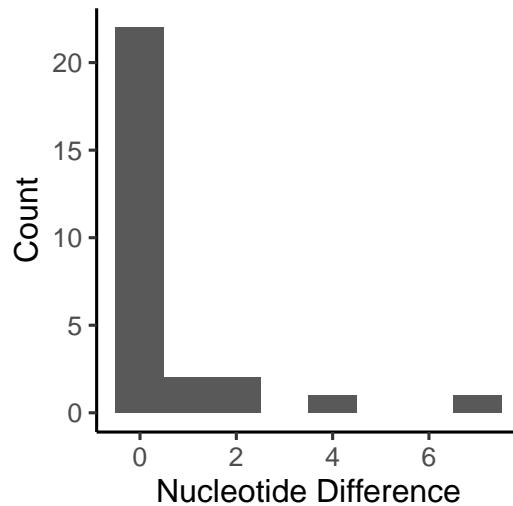
IGHV1-69*08_C191T

120 sequences assigned
111 (92.5%) exact matches, in which:
111 unique CDR3
6 unique J



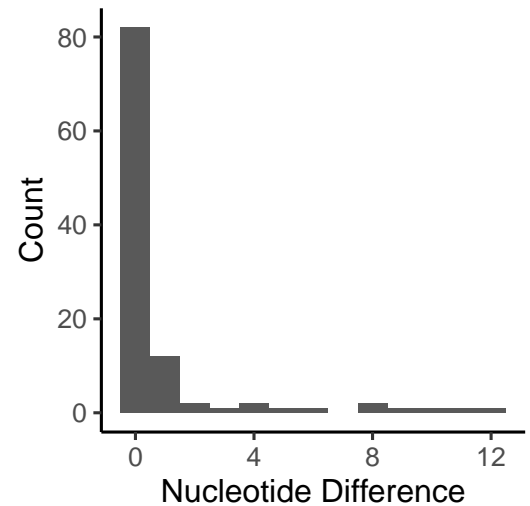
IGHV2-70*01

28 sequences assigned
22 (78.6%) exact matches, in which:
22 unique CDR3
5 unique J



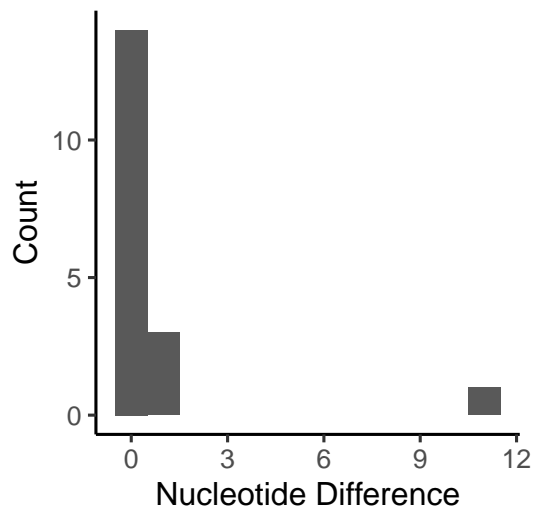
IGHV3-11*01

109 sequences assigned
82 (75.2%) exact matches, in which:
82 unique CDR3
6 unique J



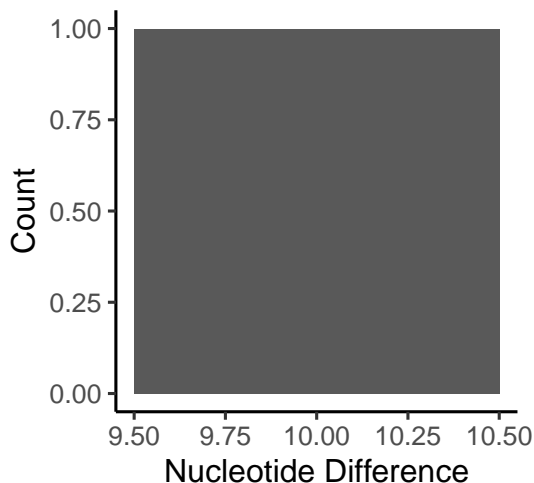
IGHV3-13*01

18 sequences assigned
14 (77.8%) exact matches, in which:
14 unique CDR3
5 unique J



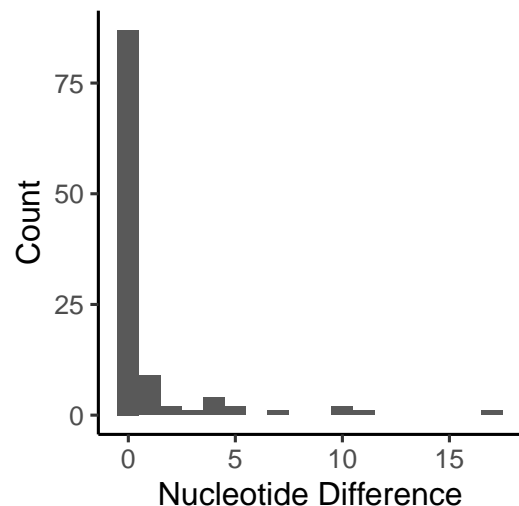
IGHV3-20*04

3 sequences assigned
No exact matches.



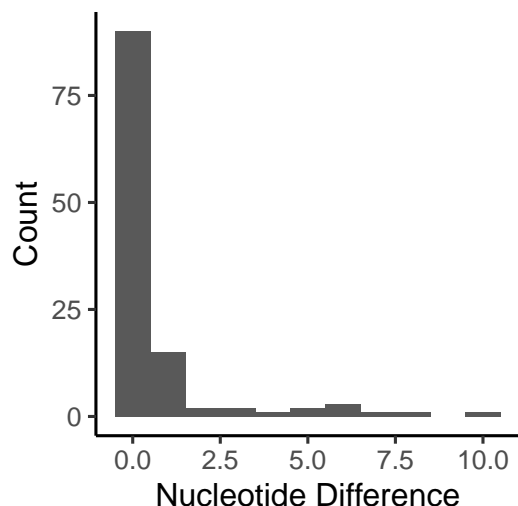
IGHV3-30-3*01

114 sequences assigned
87 (76.3%) exact matches, in which:
87 unique CDR3
6 unique J



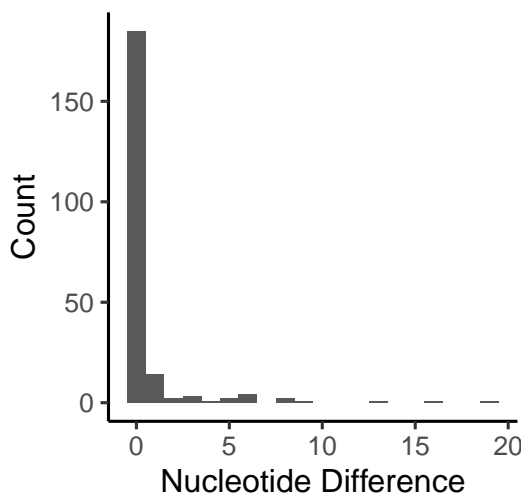
IGHV3-15*01

120 sequences assigned
90 (75%) exact matches, in which:
90 unique CDR3
4 unique J



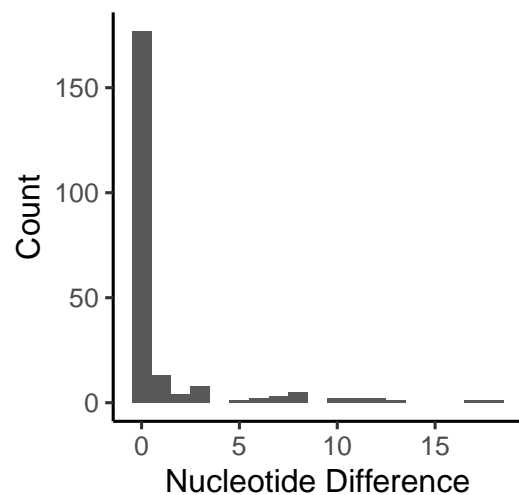
IGHV3-21*01

218 sequences assigned
185 (84.9%) exact matches, in which:
185 unique CDR3
6 unique J



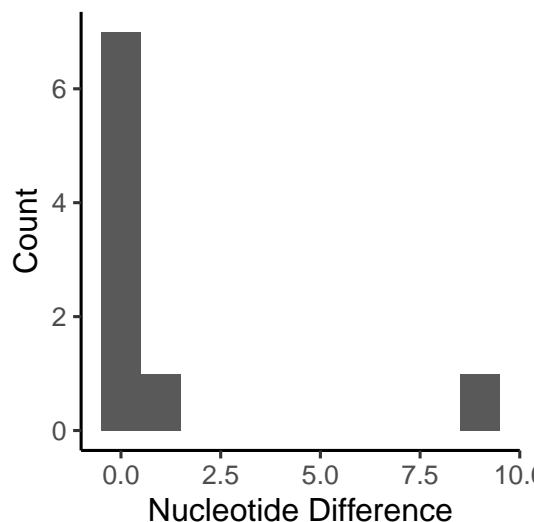
IGHV3-30*18

229 sequences assigned
177 (77.3%) exact matches, in which:
177 unique CDR3
5 unique J



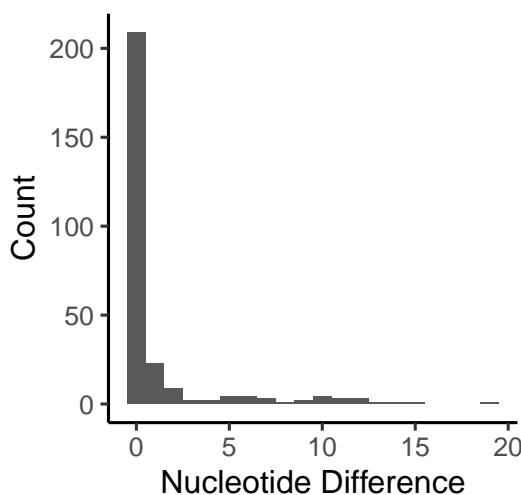
IGHV3-20*01

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



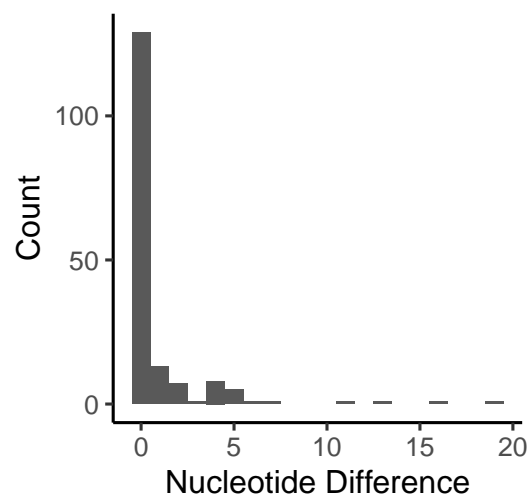
IGHV3-23*01

281 sequences assigned
209 (74.4%) exact matches, in which:
209 unique CDR3
6 unique J



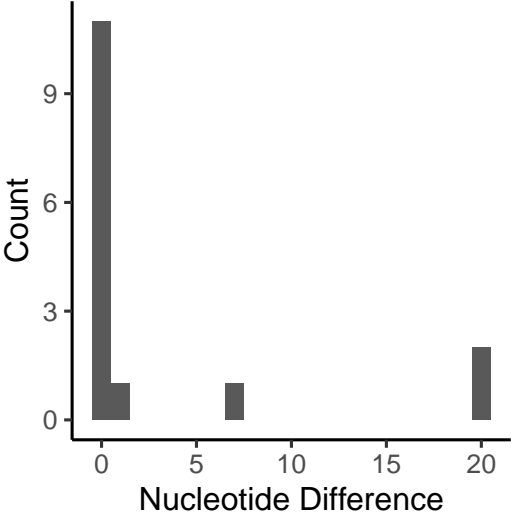
IGHV3-33*01

169 sequences assigned
129 (76.3%) exact matches, in which:
129 unique CDR3
5 unique J



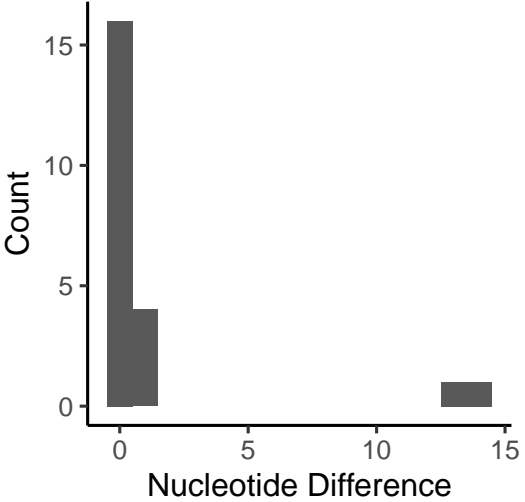
IGHV3-43*01

16 sequences assigned
11 (68.8%) exact matches, in which:
11 unique CDR3
4 unique J



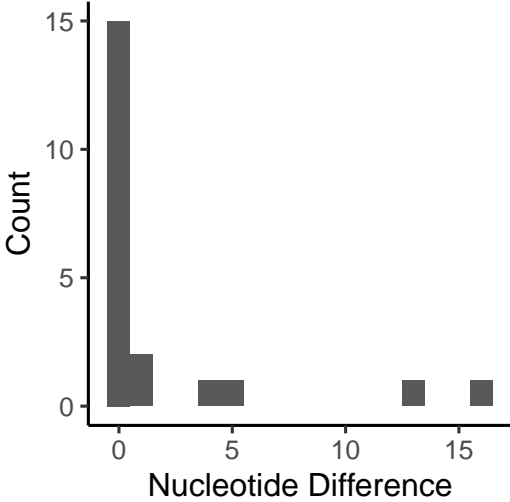
IGHV3-49*03

24 sequences assigned
16 (66.7%) exact matches, in which:
16 unique CDR3
4 unique J



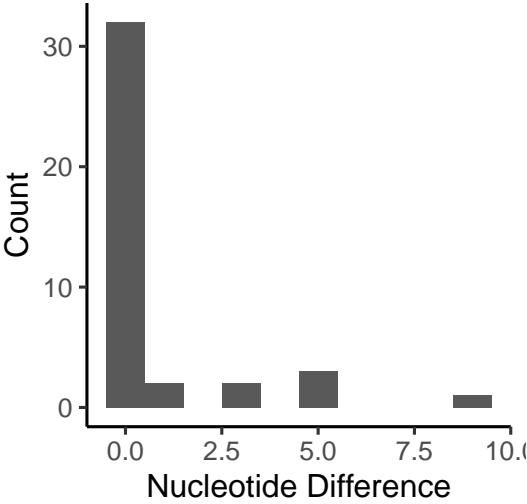
IGHV3-53*02

21 sequences assigned
15 (71.4%) exact matches, in which:
15 unique CDR3
4 unique J



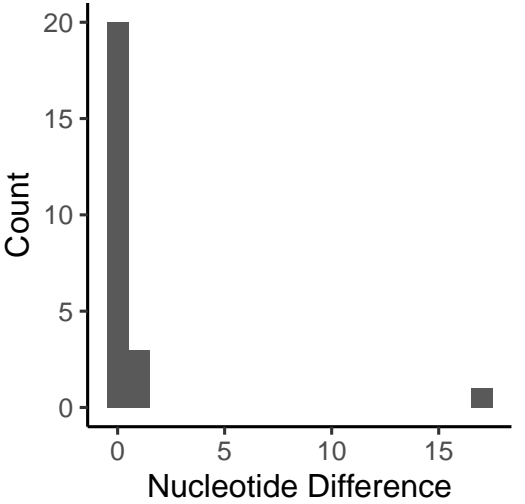
IGHV3-48*01

40 sequences assigned
32 (80%) exact matches, in which:
32 unique CDR3
5 unique J



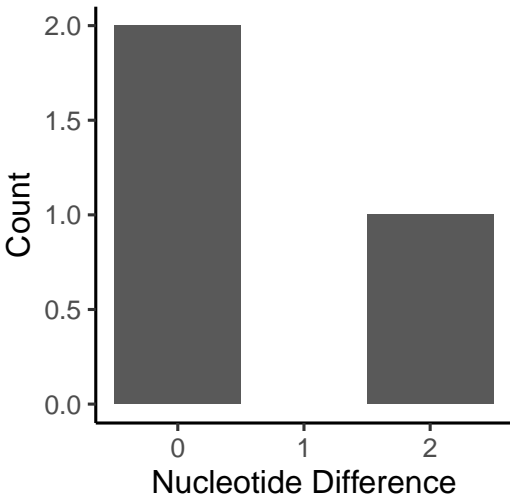
IGHV3-49*05

24 sequences assigned
20 (83.3%) exact matches, in which:
20 unique CDR3
4 unique J



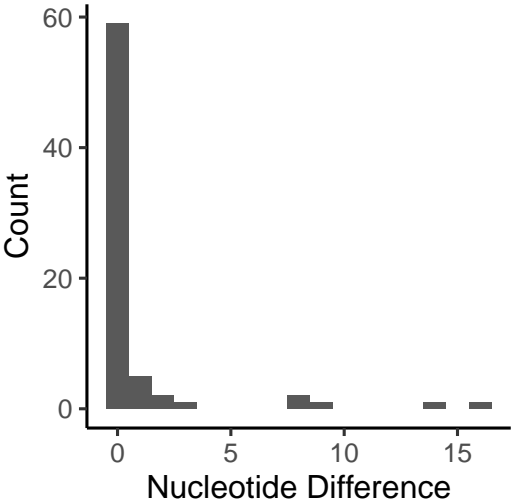
IGHV3-64*01

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



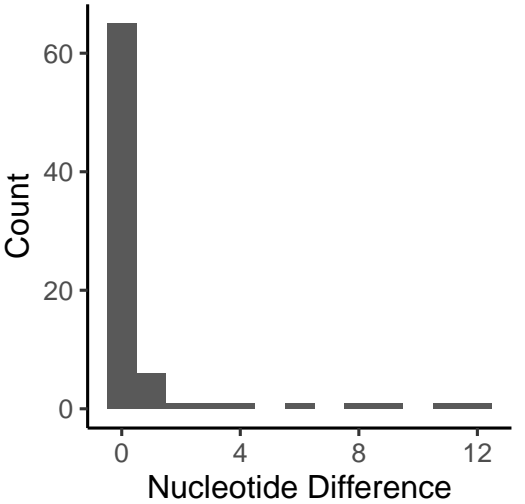
IGHV3-48*02

72 sequences assigned
59 (81.9%) exact matches, in which:
59 unique CDR3
5 unique J



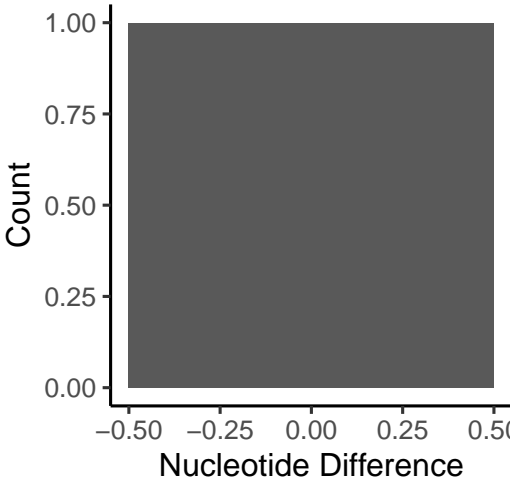
IGHV3-53*01

79 sequences assigned
65 (82.3%) exact matches, in which:
65 unique CDR3
6 unique J



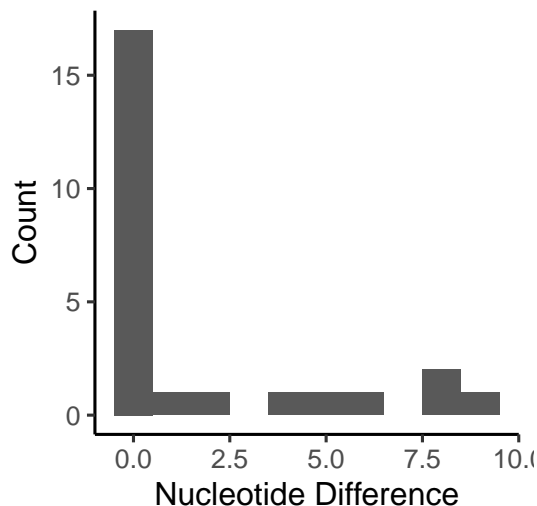
IGHV3-64*02

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



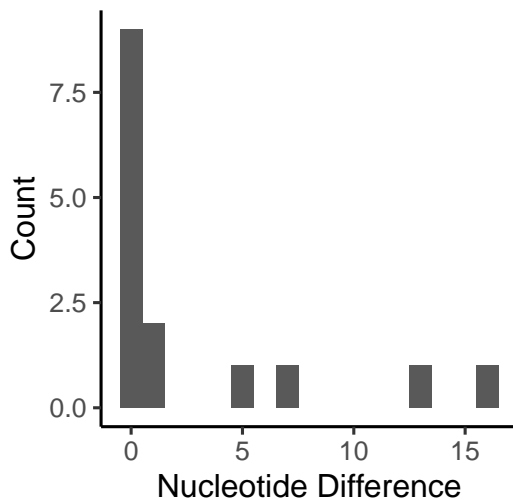
IGHV3-66*02

25 sequences assigned
17 (68%) exact matches, in which:
17 unique CDR3
4 unique J



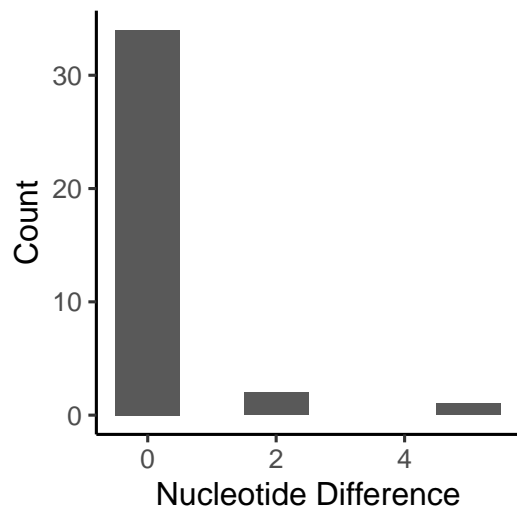
IGHV3-73*02

15 sequences assigned
9 (60%) exact matches, in which:
9 unique CDR3
4 unique J



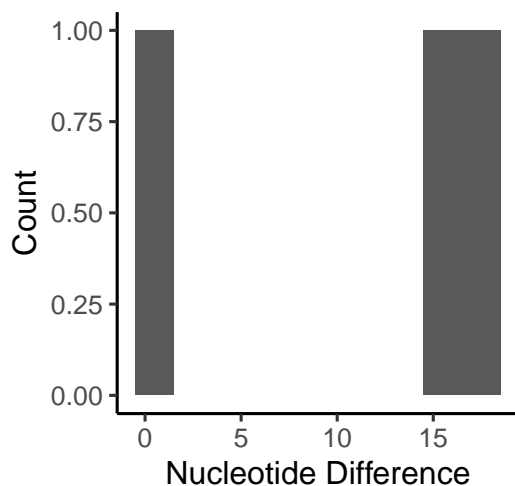
IGHV4-30-4*01

37 sequences assigned
34 (91.9%) exact matches, in which:
34 unique CDR3
6 unique J



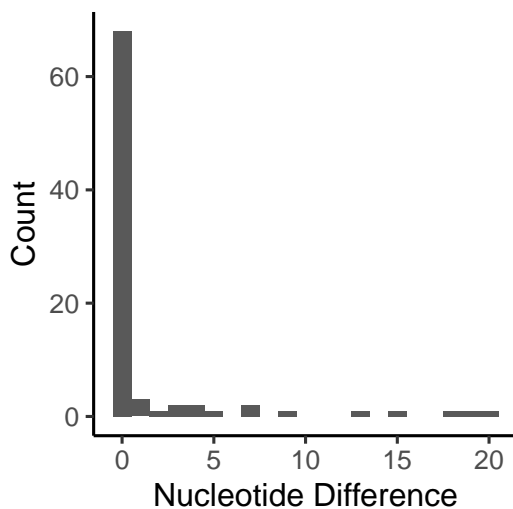
IGHV3-72*01

12 sequences assigned
1 (8.3%) exact matches, in which:
1 unique CDR3
0 unique J



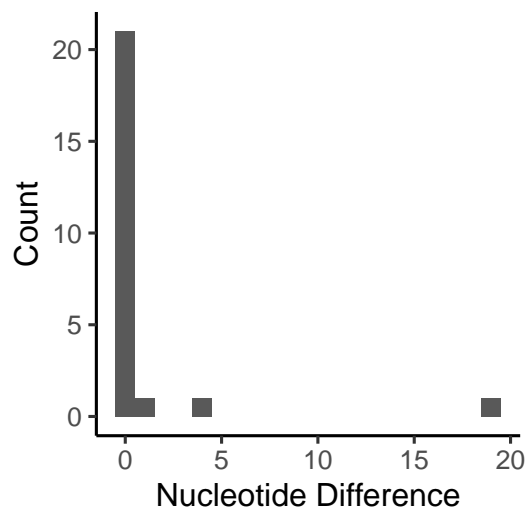
IGHV3-74*01

99 sequences assigned
68 (68.7%) exact matches, in which:
68 unique CDR3
5 unique J



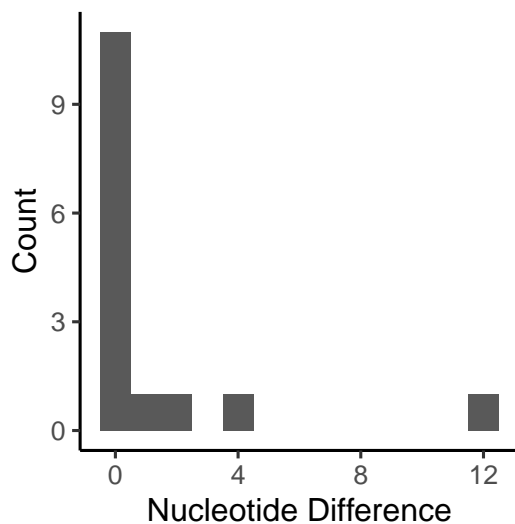
IGHV4-30-2*01

25 sequences assigned
21 (84%) exact matches, in which:
21 unique CDR3
5 unique J



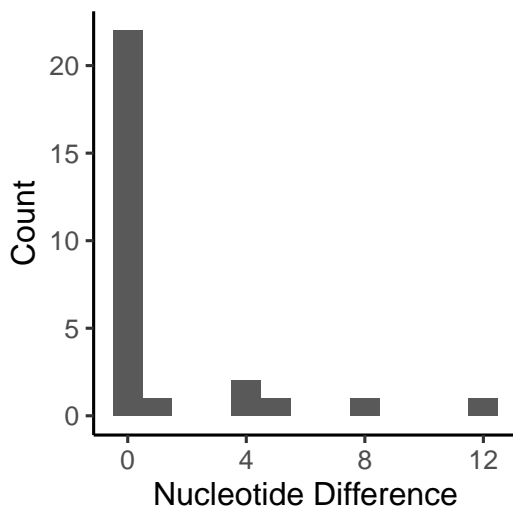
IGHV3-73*01

15 sequences assigned
11 (73.3%) exact matches, in which:
11 unique CDR3
4 unique J



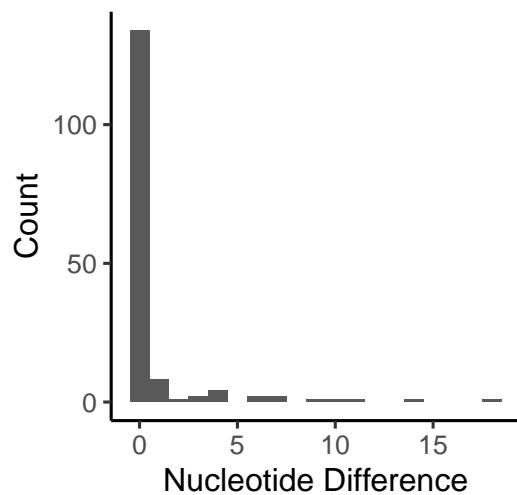
IGHV4-4*07

28 sequences assigned
22 (78.6%) exact matches, in which:
22 unique CDR3
5 unique J



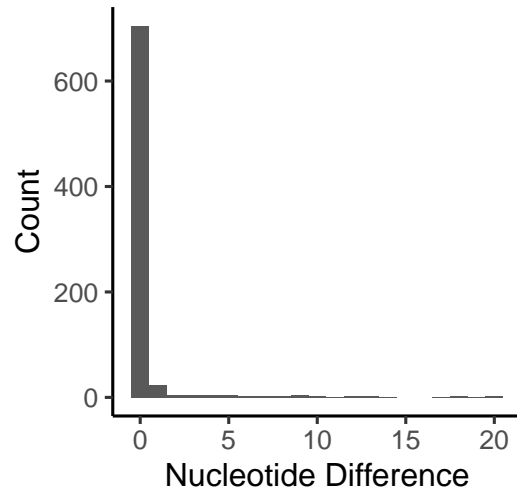
IGHV4-31*03

159 sequences assigned
134 (84.3%) exact matches, in which:
134 unique CDR3
6 unique J



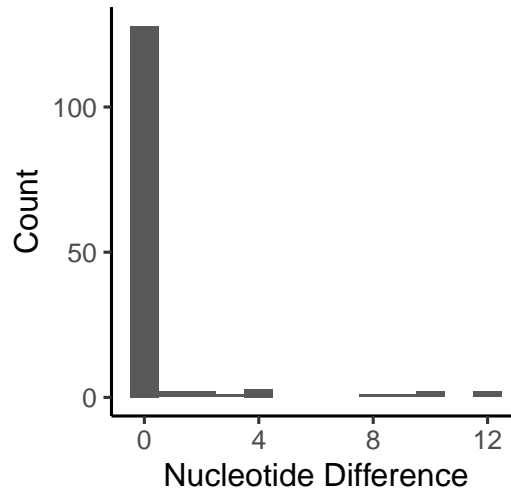
IGHV4–34*01

776 sequences assigned
705 (90.9%) exact matches, in which:
704 unique CDR3
6 unique J



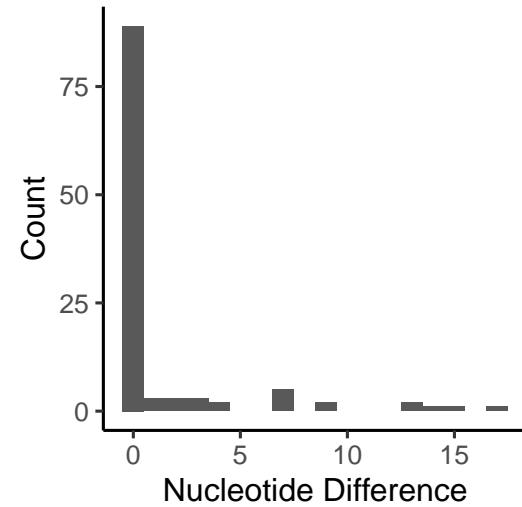
IGHV4–61*02

142 sequences assigned
128 (90.1%) exact matches, in which:
128 unique CDR3
6 unique J



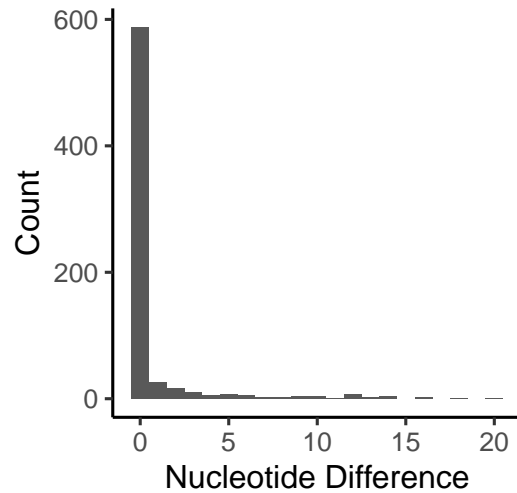
IGHV6–1*01

112 sequences assigned
89 (79.5%) exact matches, in which:
89 unique CDR3
5 unique J



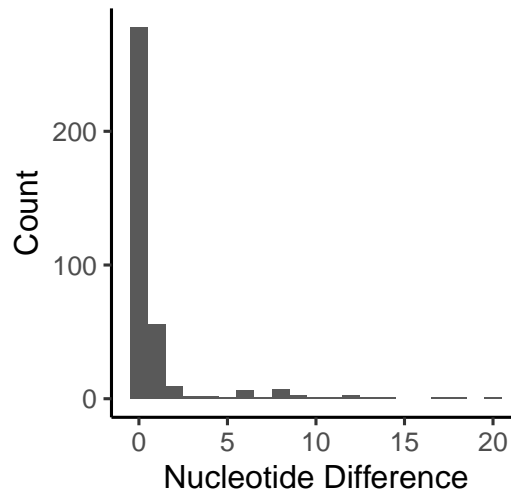
IGHV4–39*01

693 sequences assigned
588 (84.8%) exact matches, in which:
588 unique CDR3
6 unique J



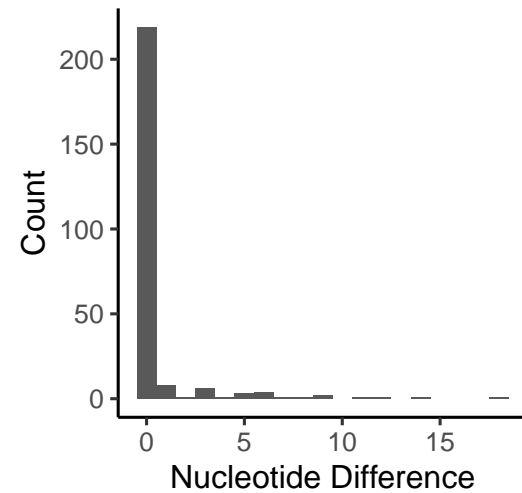
IGHV5–51*01

376 sequences assigned
278 (73.9%) exact matches, in which:
278 unique CDR3
6 unique J



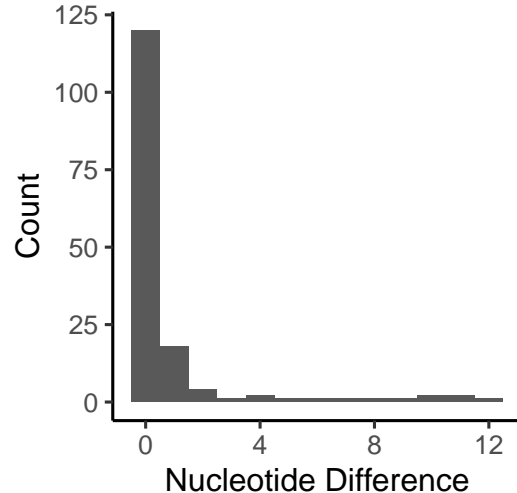
IGHV7–4–1*02

250 sequences assigned
219 (87.6%) exact matches, in which:
219 unique CDR3
6 unique J



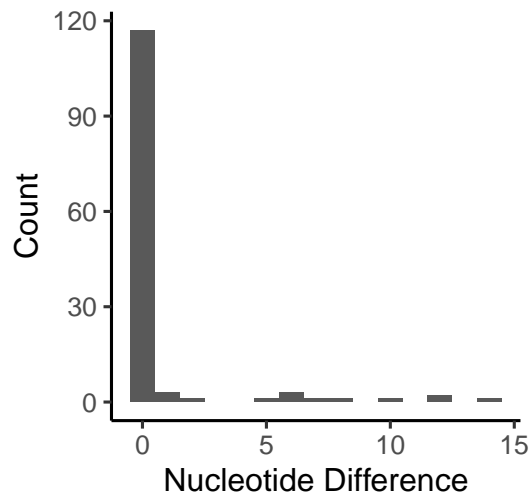
IGHV4–59*01

156 sequences assigned
120 (76.9%) exact matches, in which:
120 unique CDR3
5 unique J



IGHV5–51*03

131 sequences assigned
117 (89.3%) exact matches, in which:
117 unique CDR3
5 unique J



IGHV1-69*08_C191T

