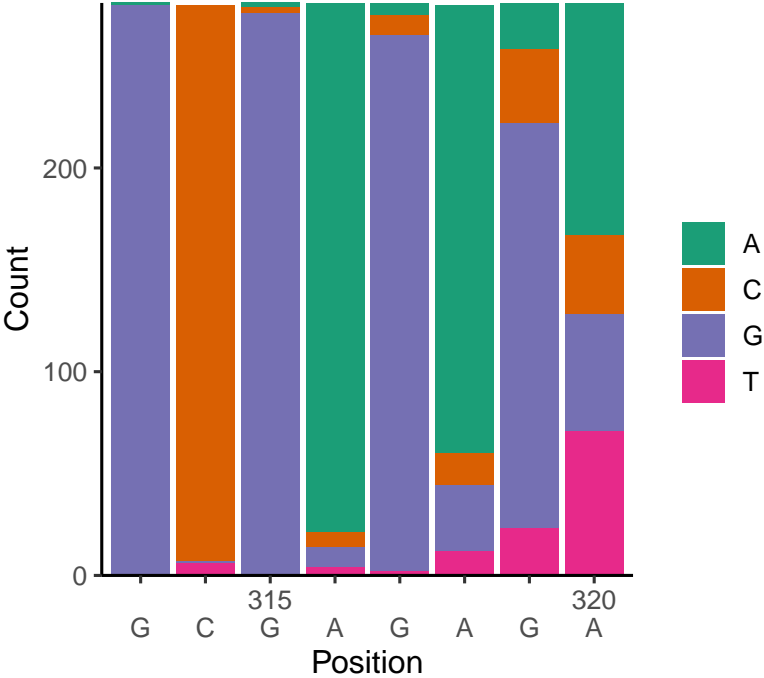
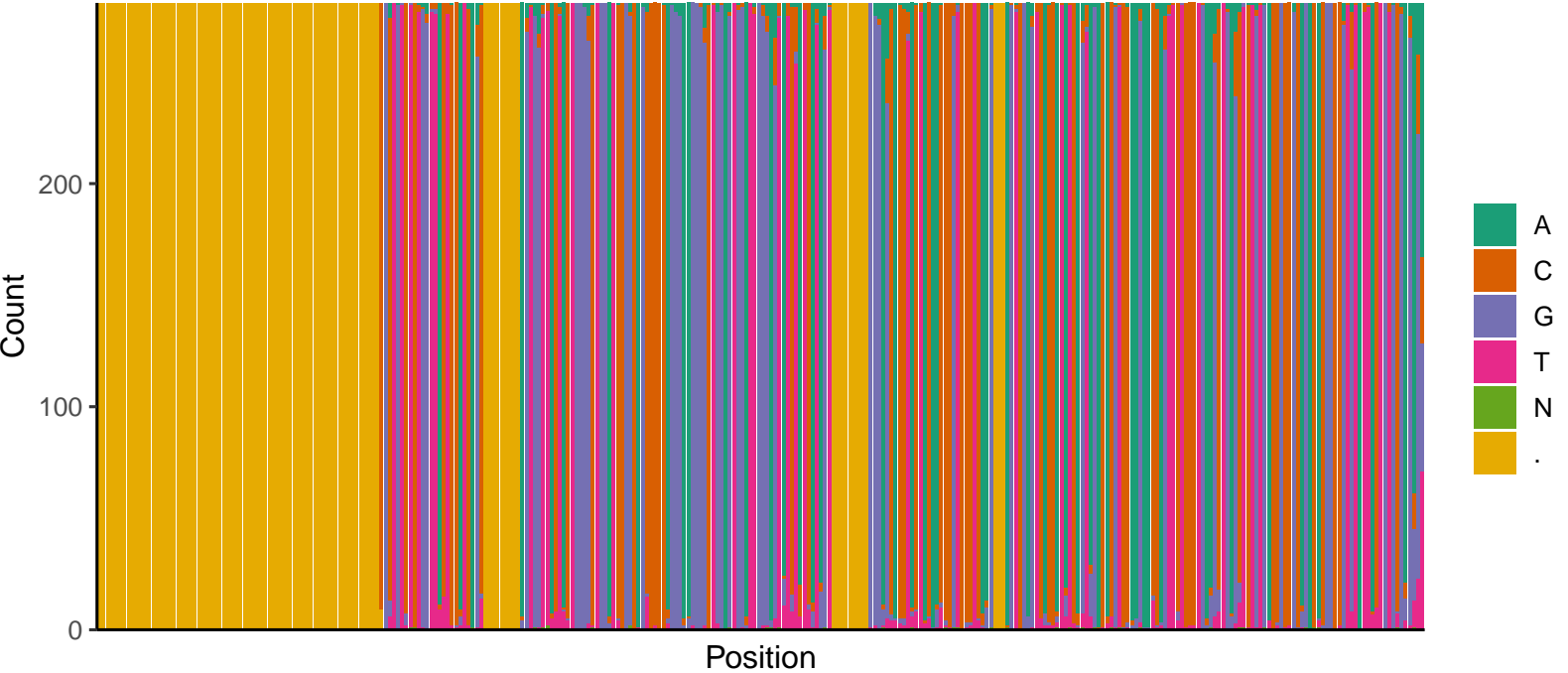


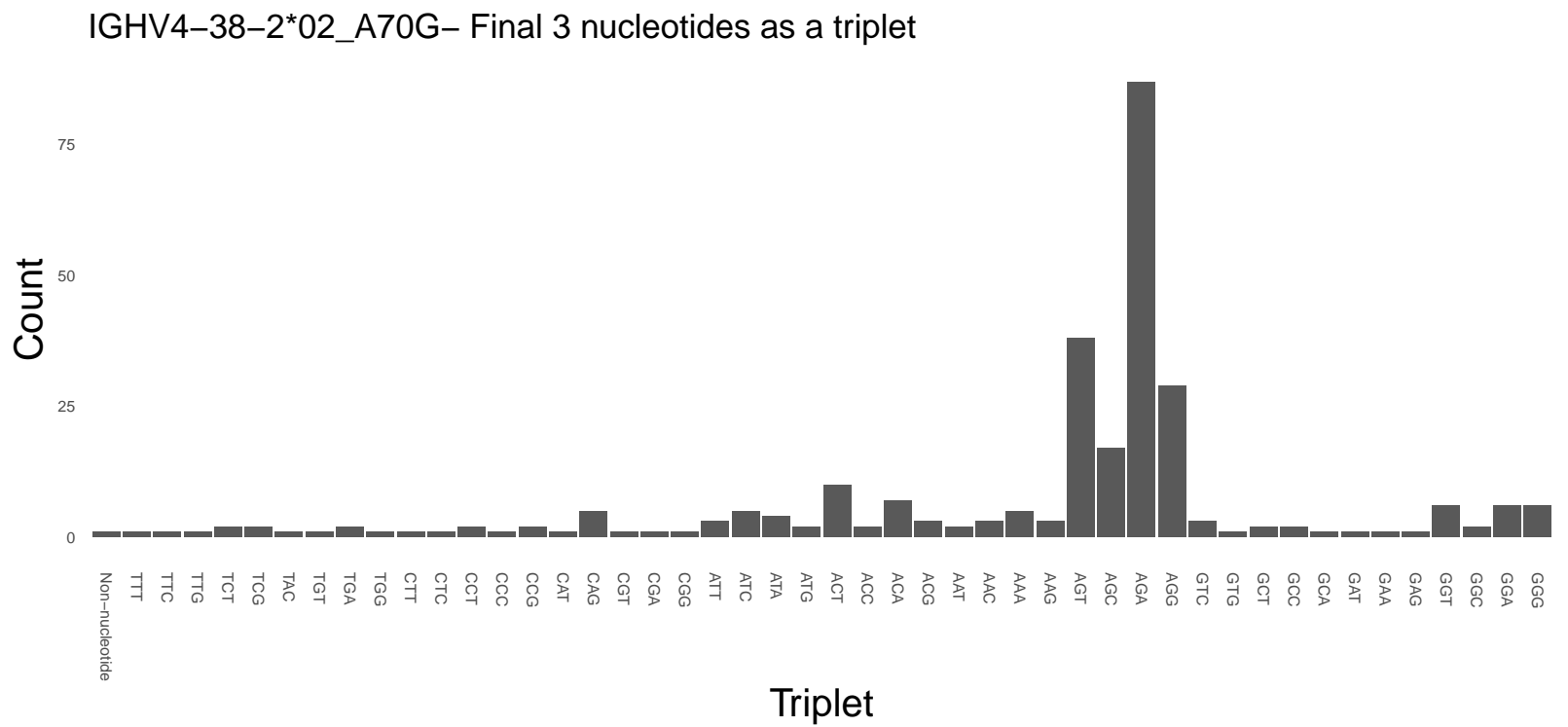
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

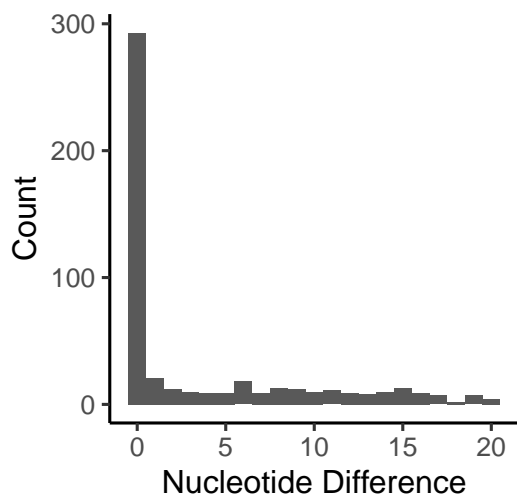


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



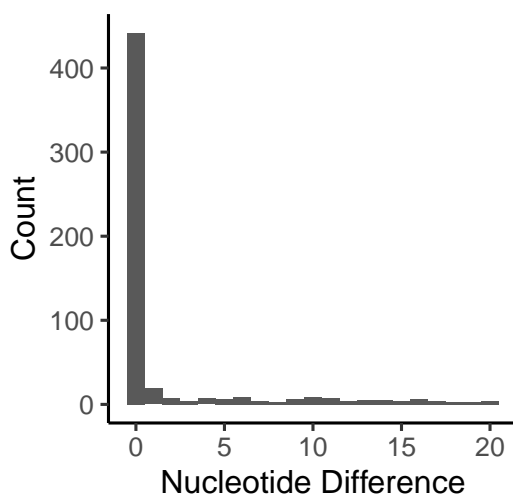
IGHV1-2*02

524 sequences assigned
293 (55.9%) exact matches, in which:
293 unique CDR3
6 unique J



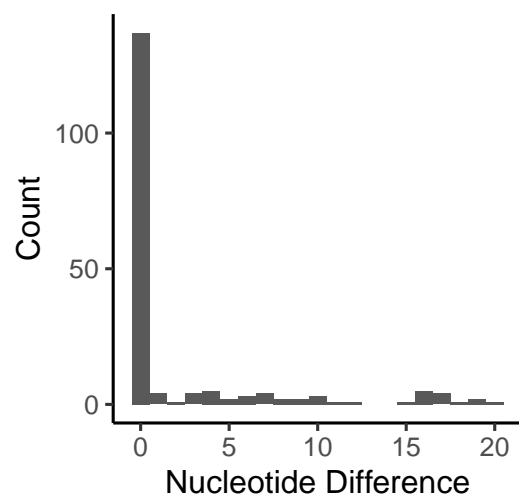
IGHV1-8*01

583 sequences assigned
442 (75.8%) exact matches, in which:
439 unique CDR3
6 unique J



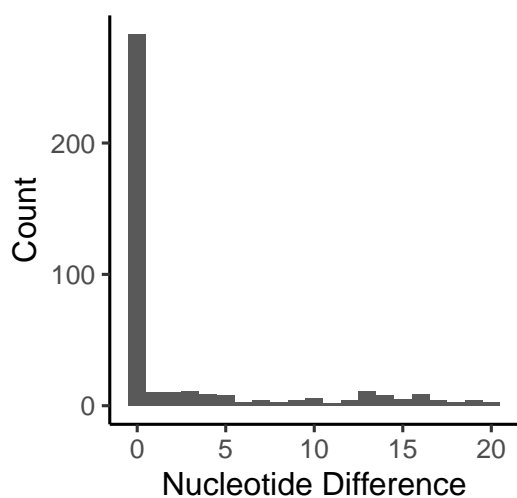
IGHV1-46*01

191 sequences assigned
137 (71.7%) exact matches, in which:
137 unique CDR3
6 unique J



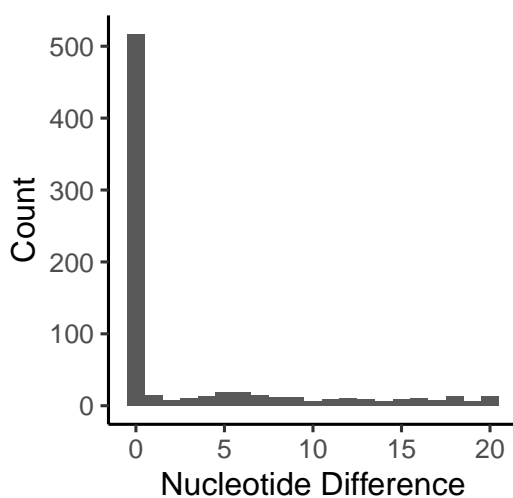
IGHV1-2*06

425 sequences assigned
283 (66.6%) exact matches, in which:
281 unique CDR3
6 unique J



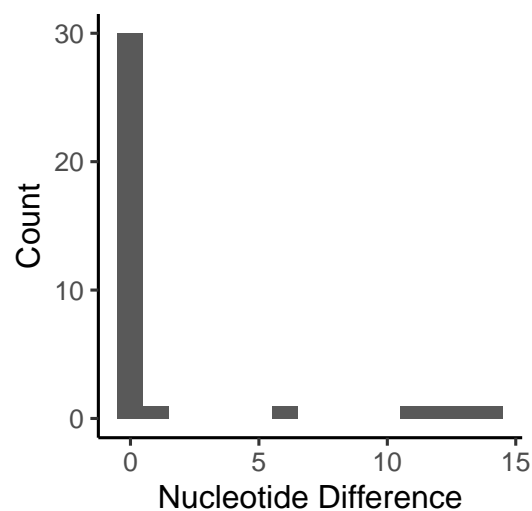
IGHV1-18*01

799 sequences assigned
517 (64.7%) exact matches, in which:
515 unique CDR3
6 unique J



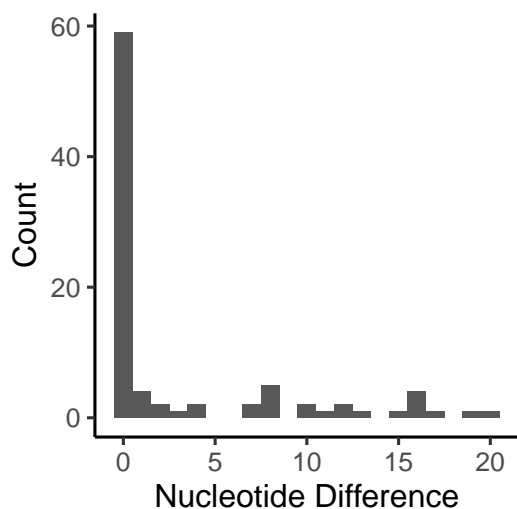
IGHV1-58*01_03

38 sequences assigned
30 (78.9%) exact matches, in which:
30 unique CDR3
5 unique J



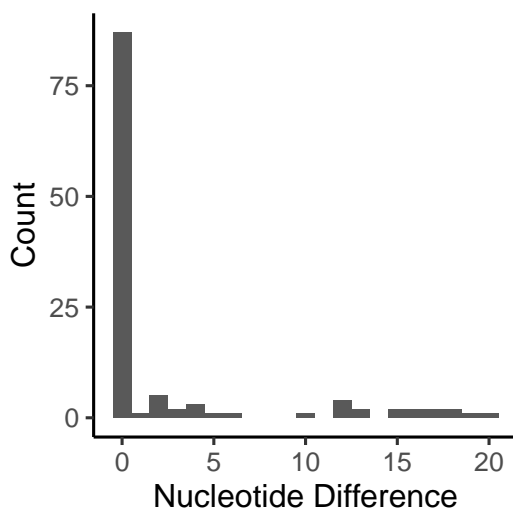
IGHV1-3*01_05

96 sequences assigned
59 (61.5%) exact matches, in which:
59 unique CDR3
6 unique J



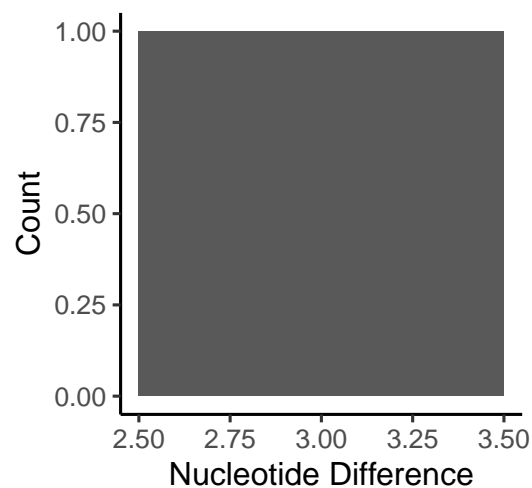
IGHV1-24*01

123 sequences assigned
87 (70.7%) exact matches, in which:
86 unique CDR3
6 unique J



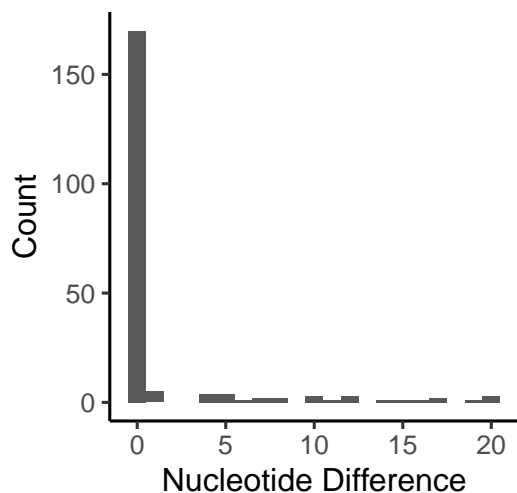
IGHV1-68*02

1 sequences assigned
No exact matches.



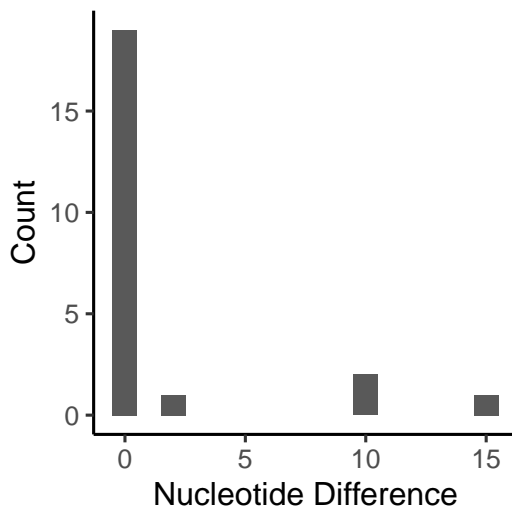
IGHV1–69*06_14

221 sequences assigned
170 (76.9%) exact matches, in which:
170 unique CDR3
6 unique J



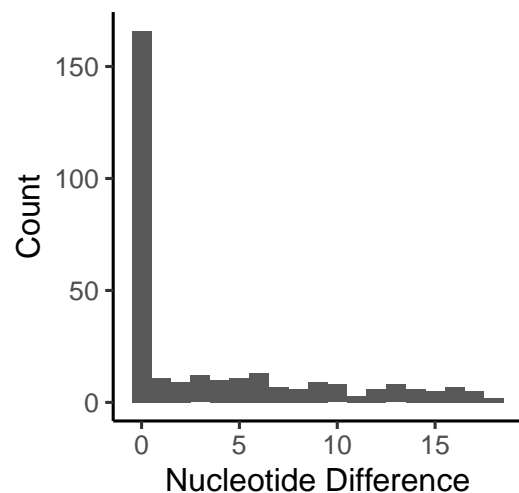
IGHV2–26*01

23 sequences assigned
19 (82.6%) exact matches, in which:
19 unique CDR3
5 unique J



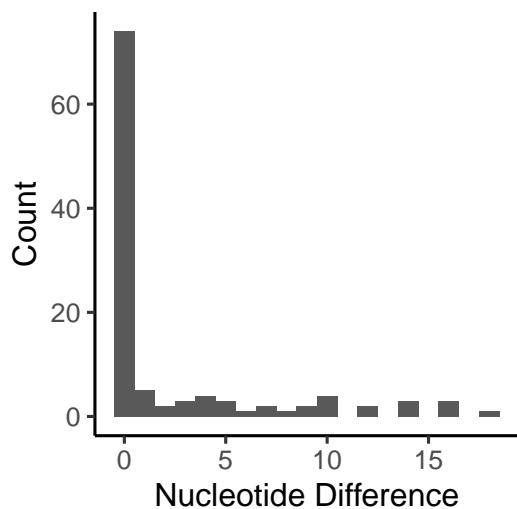
IGHV3–9*01

316 sequences assigned
166 (52.5%) exact matches, in which:
164 unique CDR3
6 unique J



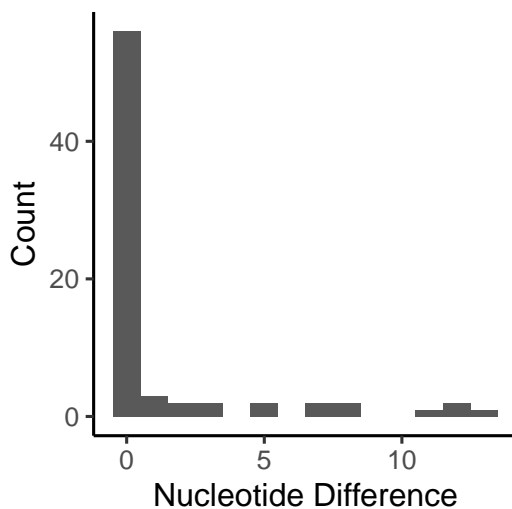
IGHV2–5*01

114 sequences assigned
74 (64.9%) exact matches, in which:
73 unique CDR3
6 unique J



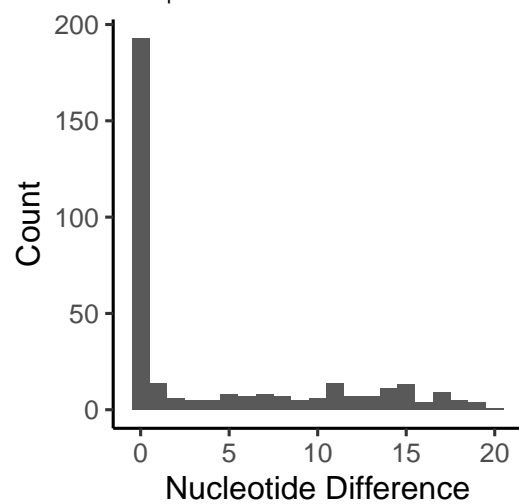
IGHV2–70*01

73 sequences assigned
56 (76.7%) exact matches, in which:
54 unique CDR3
5 unique J



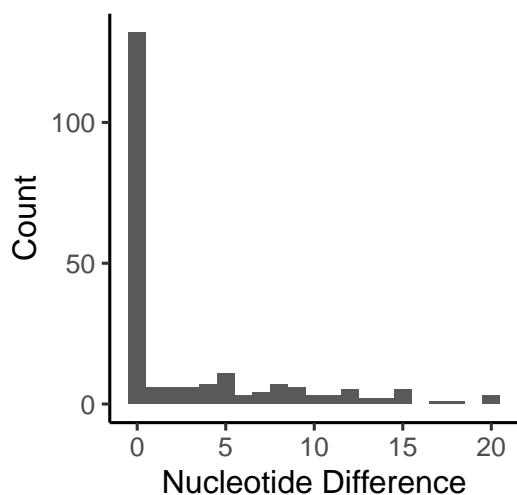
IGHV3–11*01

361 sequences assigned
193 (53.5%) exact matches, in which:
193 unique CDR3
6 unique J



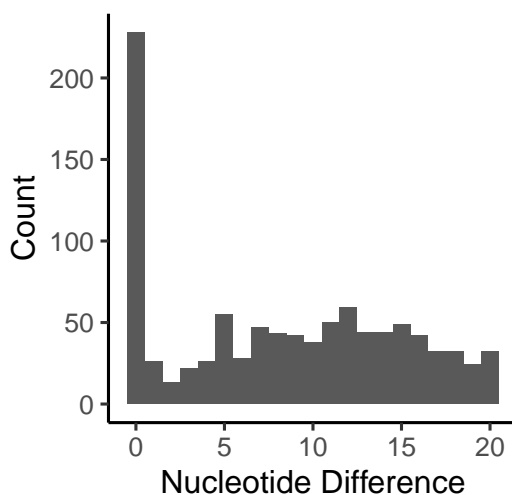
IGHV2–5*02

217 sequences assigned
132 (60.8%) exact matches, in which:
132 unique CDR3
6 unique J



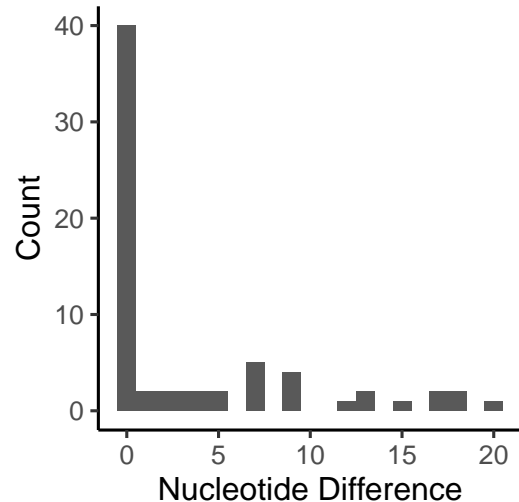
IGHV3–7*01

1063 sequences assigned
228 (21.4%) exact matches, in which:
222 unique CDR3
6 unique J



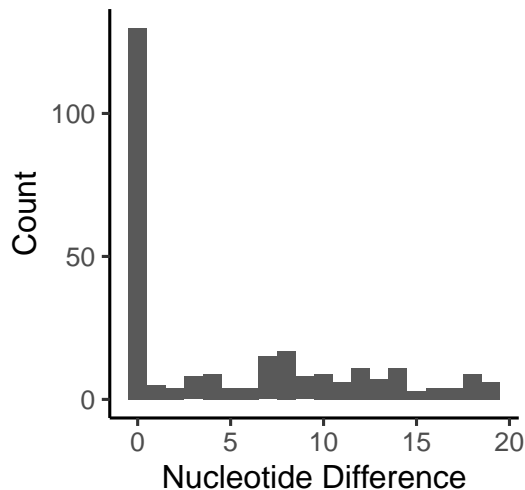
IGHV3–13*01

75 sequences assigned
40 (53.3%) exact matches, in which:
37 unique CDR3
5 unique J



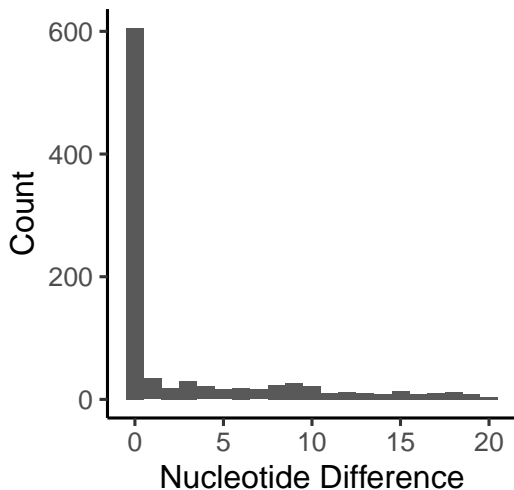
IGHV3-15*01_02

294 sequences assigned
130 (44.2%) exact matches, in which:
127 unique CDR3
6 unique J



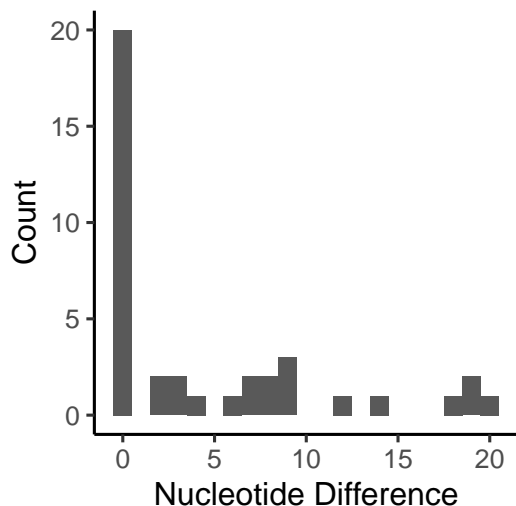
IGHV3-21*01_02

971 sequences assigned
606 (62.4%) exact matches, in which:
588 unique CDR3
6 unique J



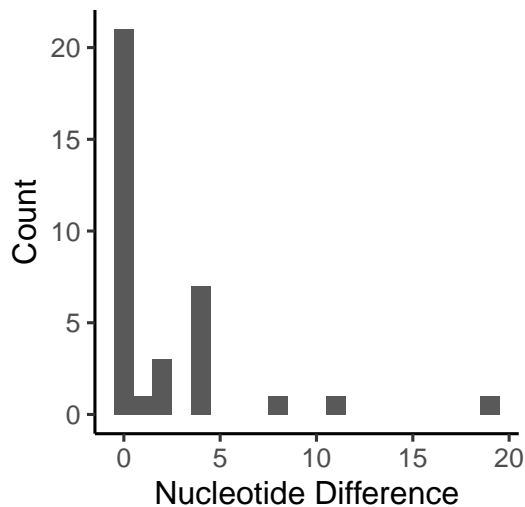
IGHV3-43*01

39 sequences assigned
20 (51.3%) exact matches, in which:
20 unique CDR3
3 unique J



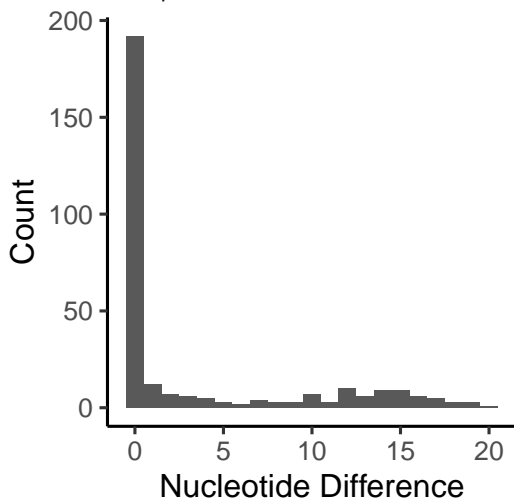
IGHV3-20*01_02

36 sequences assigned
21 (58.3%) exact matches, in which:
21 unique CDR3
5 unique J



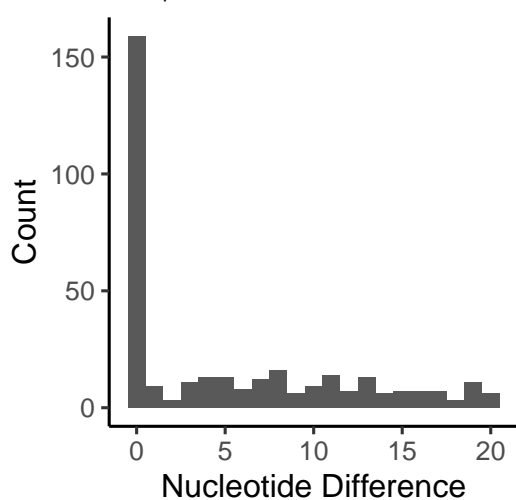
IGHV3-30-3*01

309 sequences assigned
192 (62.1%) exact matches, in which:
189 unique CDR3
6 unique J



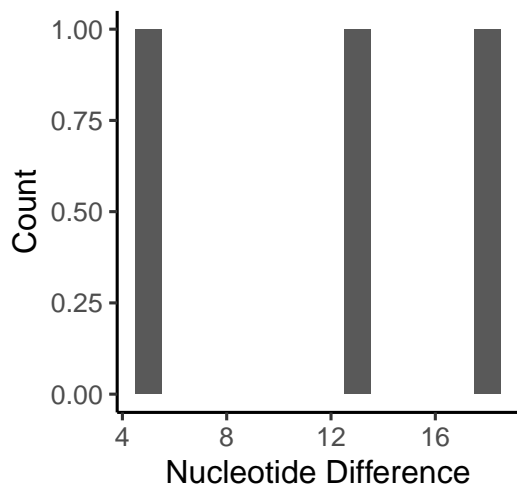
IGHV3-48*03

361 sequences assigned
159 (44%) exact matches, in which:
156 unique CDR3
5 unique J



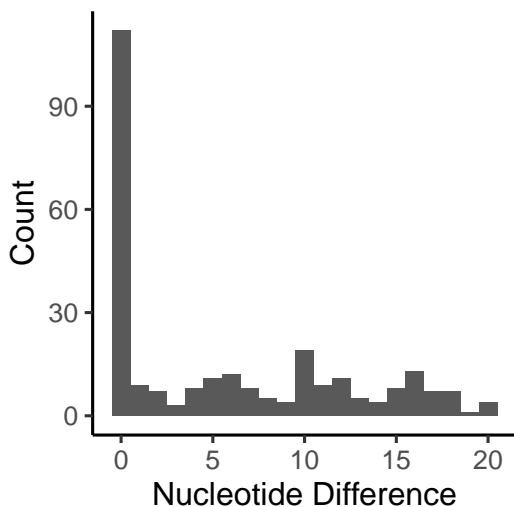
IGHV3-20*03_04

8 sequences assigned
No exact matches.



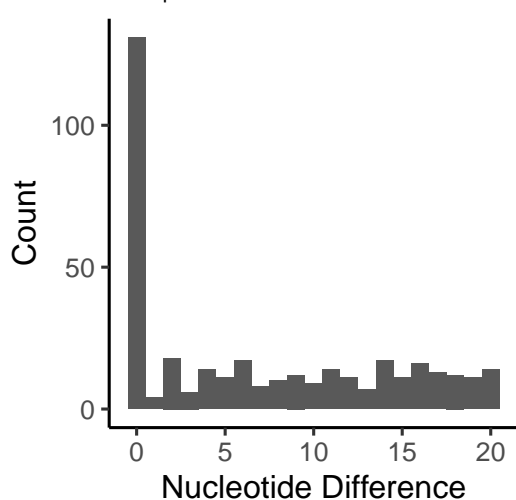
IGHV3-33*01

293 sequences assigned
112 (38.2%) exact matches, in which:
111 unique CDR3
6 unique J



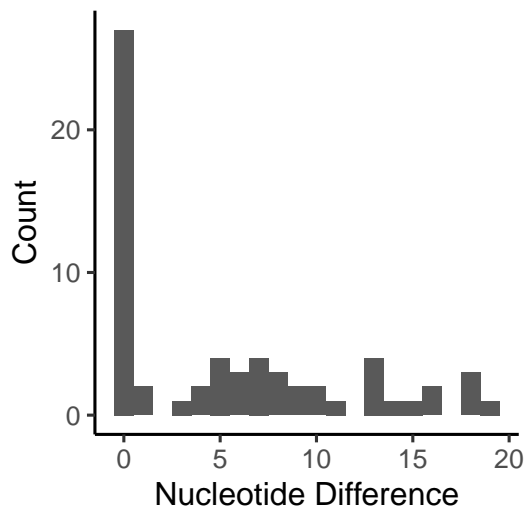
IGHV3-48*04

437 sequences assigned
131 (30%) exact matches, in which:
130 unique CDR3
5 unique J



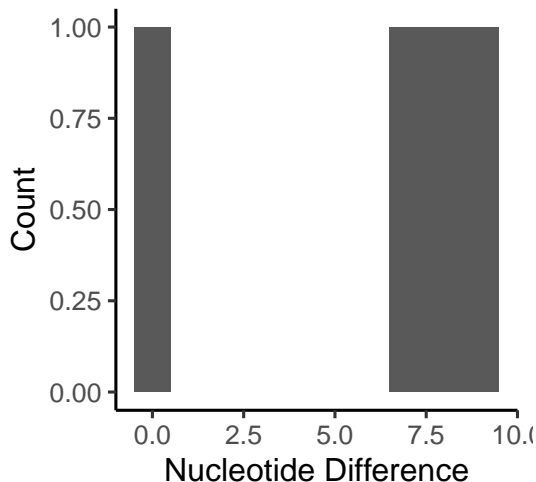
IGHV3-49*04

67 sequences assigned
27 (40.3%) exact matches, in which:
27 unique CDR3
4 unique J



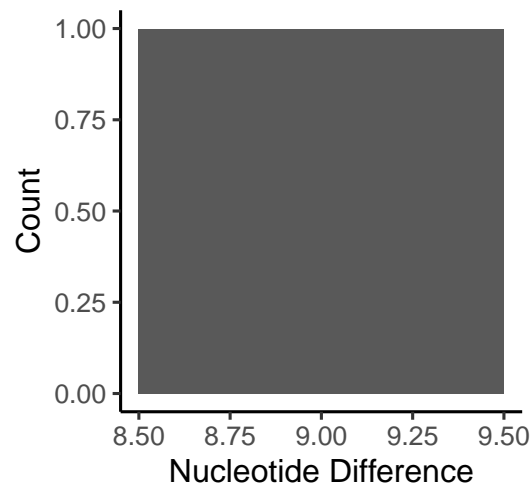
IGHV3-64*01

6 sequences assigned
1 (16.7%) exact matches, in which:
1 unique CDR3
1 unique J



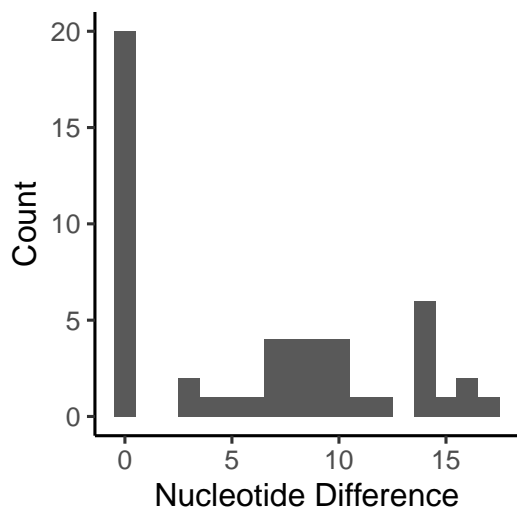
IGHV3-66*03

3 sequences assigned
No exact matches.



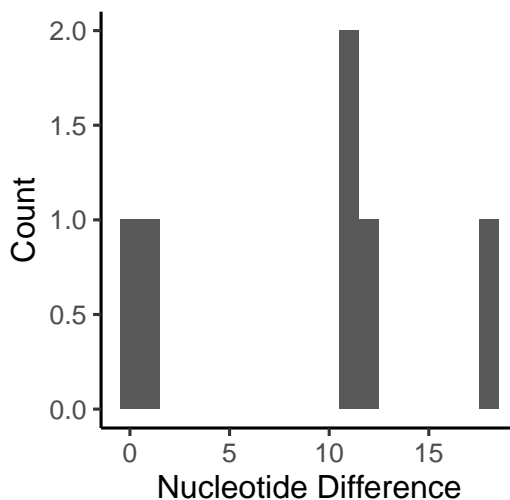
IGHV3-49*03_05

57 sequences assigned
20 (35.1%) exact matches, in which:
20 unique CDR3
5 unique J



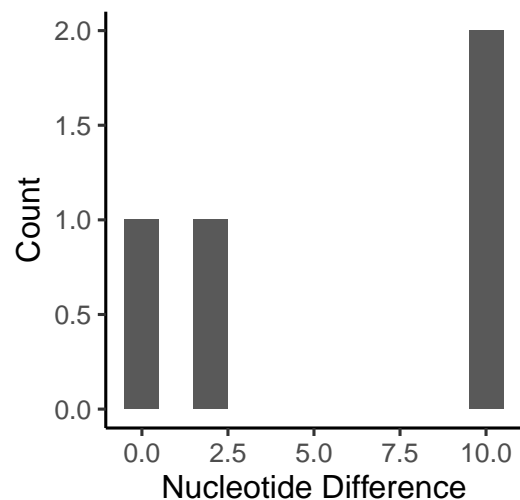
IGHV3-64*02_07

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



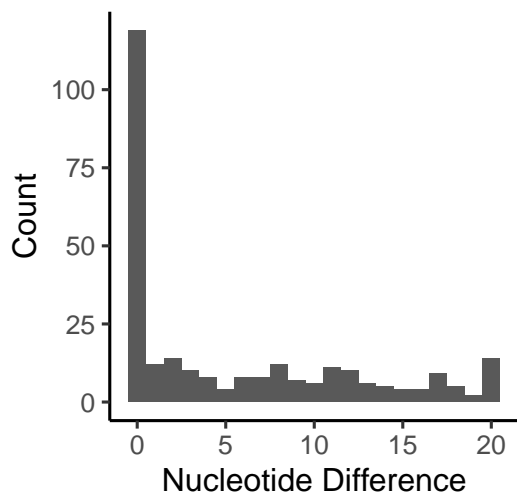
IGHV3-69-1*01

8 sequences assigned
1 (12.5%) exact matches, in which:
1 unique CDR3
1 unique J



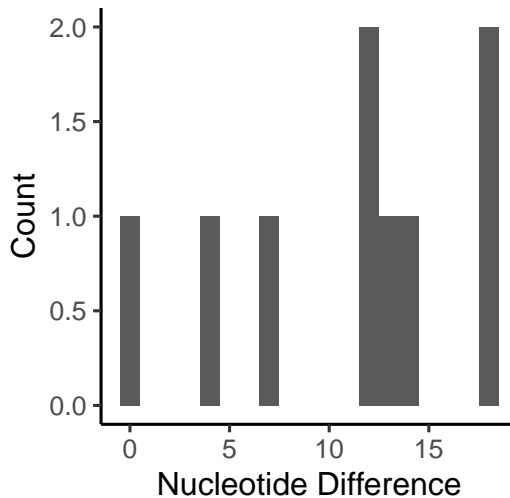
IGHV3-53*01_02

306 sequences assigned
119 (38.9%) exact matches, in which:
115 unique CDR3
6 unique J



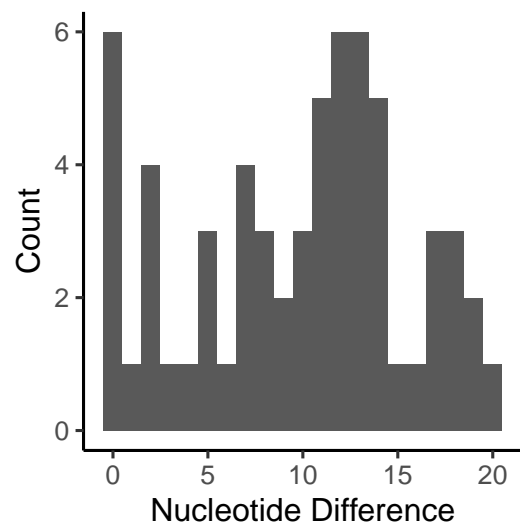
IGHV3-66*02

13 sequences assigned
1 (7.7%) exact matches, in which:
1 unique CDR3
1 unique J



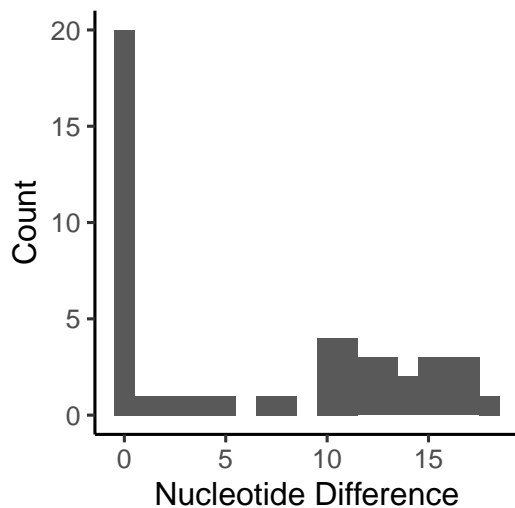
IGHV3-72*01

66 sequences assigned
6 (9.1%) exact matches, in which:
6 unique CDR3
3 unique J



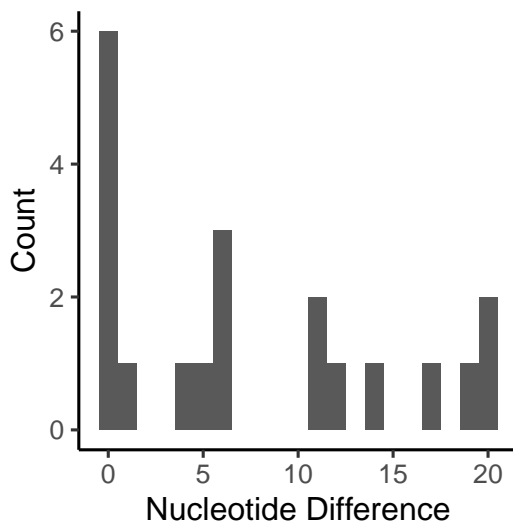
IGHV3-73*01_02

60 sequences assigned
20 (33.3%) exact matches, in which:
20 unique CDR3
4 unique J



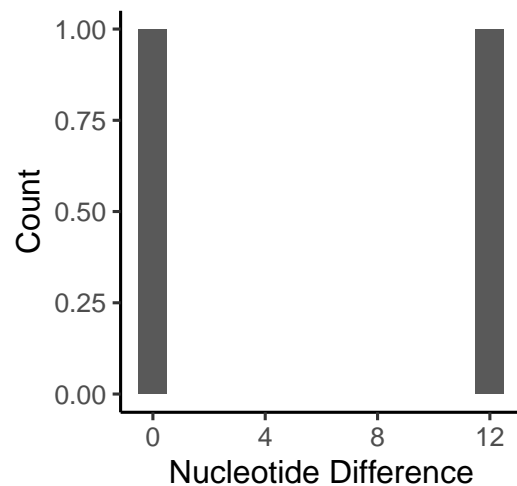
IGHV3-43D*04

22 sequences assigned
6 (27.3%) exact matches, in which:
6 unique CDR3
2 unique J



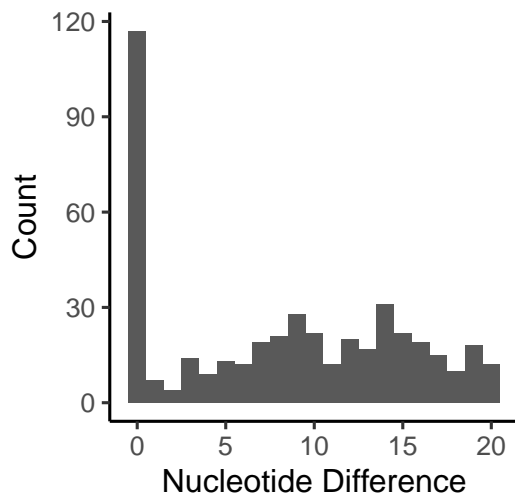
IGHV4-28*01_07

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



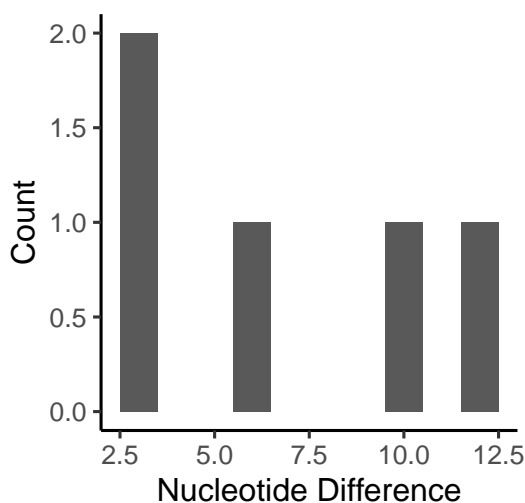
IGHV3-74*01_02

507 sequences assigned
117 (23.1%) exact matches, in which:
116 unique CDR3
6 unique J



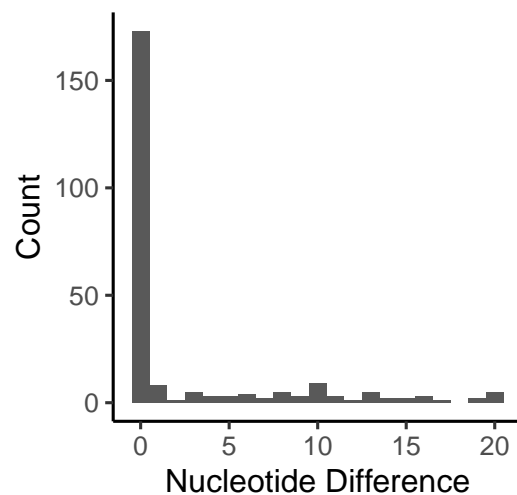
IGHV3-64D*09

8 sequences assigned
No exact matches.



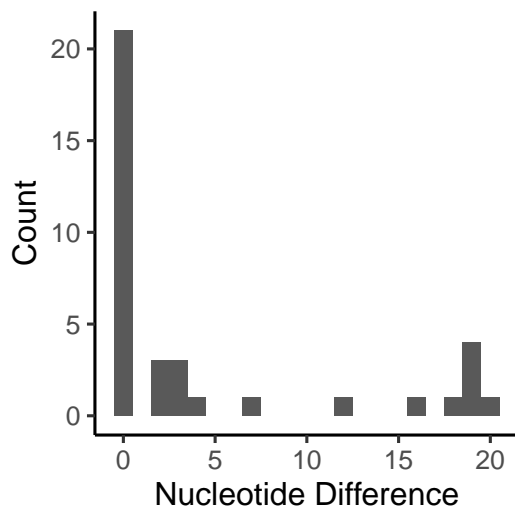
IGHV4-30-4*01

251 sequences assigned
173 (68.9%) exact matches, in which:
171 unique CDR3
6 unique J



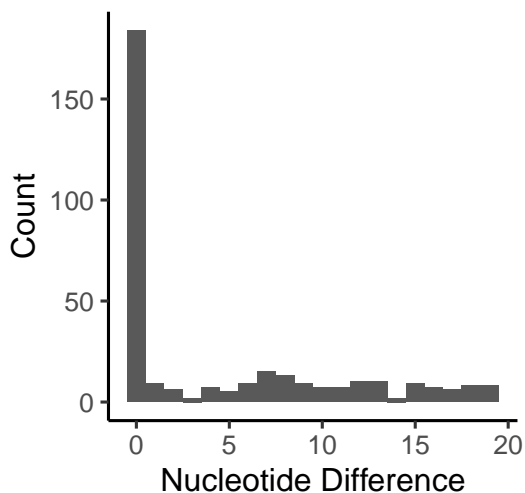
IGHV3-43D*03

39 sequences assigned
21 (53.8%) exact matches, in which:
21 unique CDR3
4 unique J



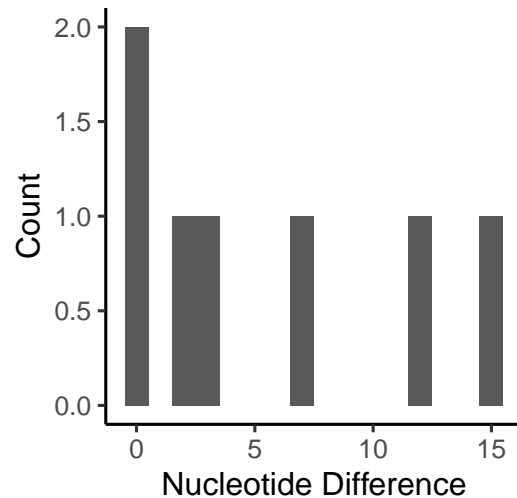
IGHV4-4*07

358 sequences assigned
184 (51.4%) exact matches, in which:
180 unique CDR3
6 unique J



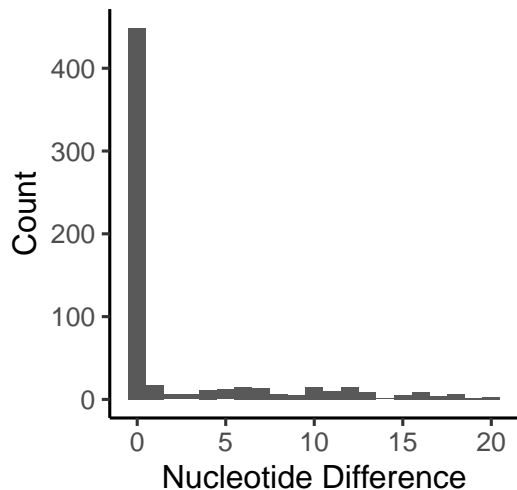
IGHV4-30-2*01

7 sequences assigned
2 (28.6%) exact matches, in which:
2 unique CDR3
1 unique J



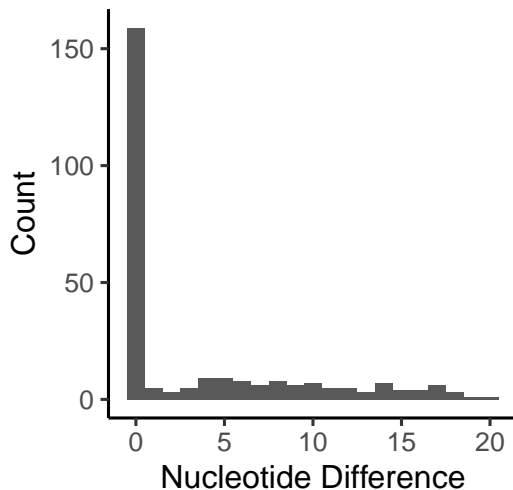
IGHV4-31*03_04

657 sequences assigned
449 (68.3%) exact matches, in which:
440 unique CDR3
6 unique J



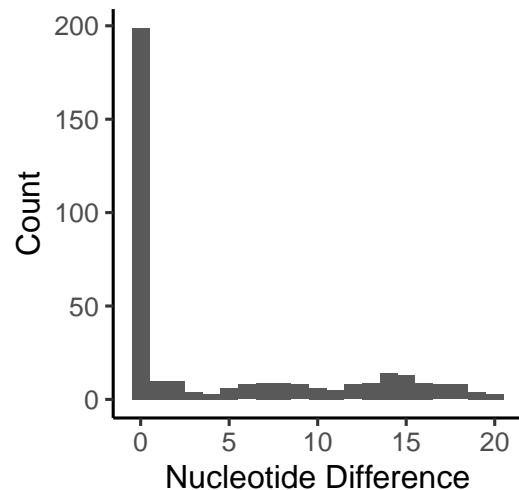
IGHV4-38-2*02_A70G

281 sequences assigned
159 (56.6%) exact matches, in which:
157 unique CDR3
6 unique J



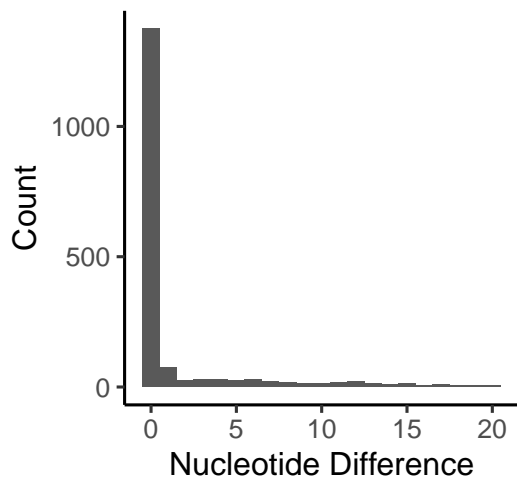
IGHV4-61*01

384 sequences assigned
199 (51.8%) exact matches, in which:
196 unique CDR3
6 unique J



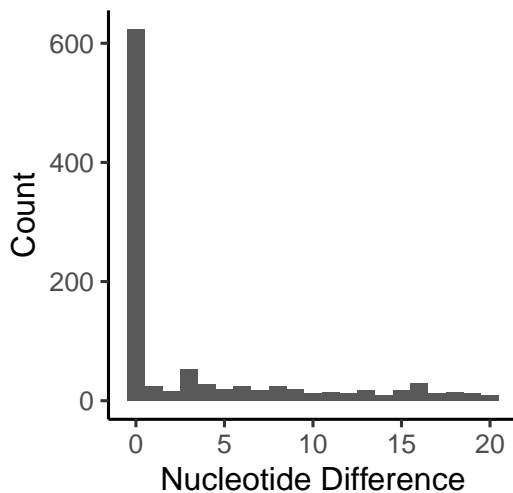
IGHV4-34*01_02

1814 sequences assigned
1375 (75.8%) exact matches, in which:
1330 unique CDR3
6 unique J



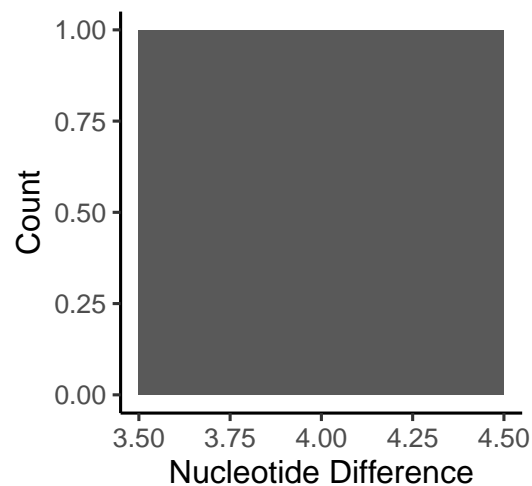
IGHV4-39*07

1140 sequences assigned
624 (54.7%) exact matches, in which:
609 unique CDR3
6 unique J



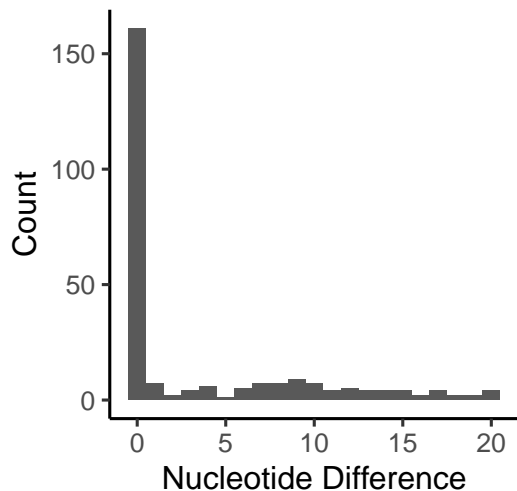
IGHV5-10-1*01_03

1 sequences assigned
No exact matches.



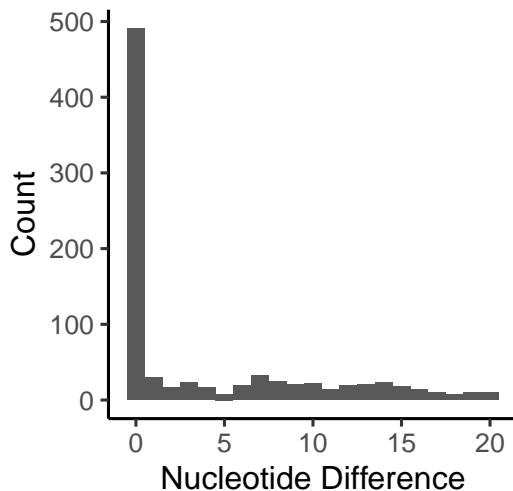
IGHV4-38-2*02

271 sequences assigned
161 (59.4%) exact matches, in which:
160 unique CDR3
5 unique J



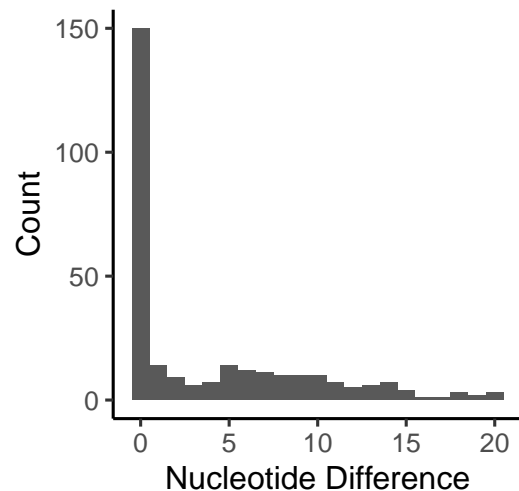
IGHV4-59*01_07

922 sequences assigned
491 (53.3%) exact matches, in which:
475 unique CDR3
6 unique J



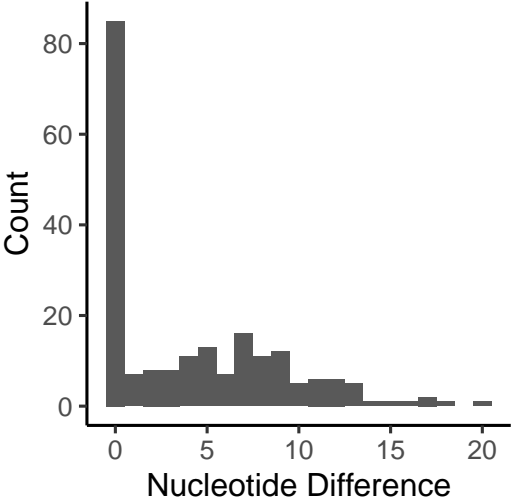
IGHV5-51*01_03

303 sequences assigned
150 (49.5%) exact matches, in which:
149 unique CDR3
5 unique J



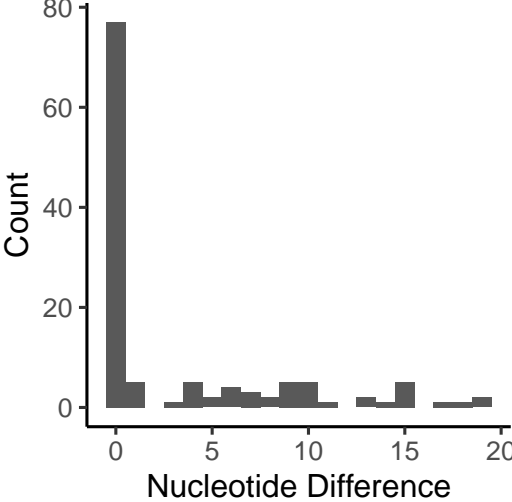
IGHV6-1*01_02

218 sequences assigned
85 (39%) exact matches, in which:
85 unique CDR3
6 unique J



IGHV7-4-1*02

126 sequences assigned
77 (61.1%) exact matches, in which:
76 unique CDR3
5 unique J





Never sequences(0) for IV : 00 02=000A for IV: 01 07=011200 are not listed in the genotype and will be ignored.