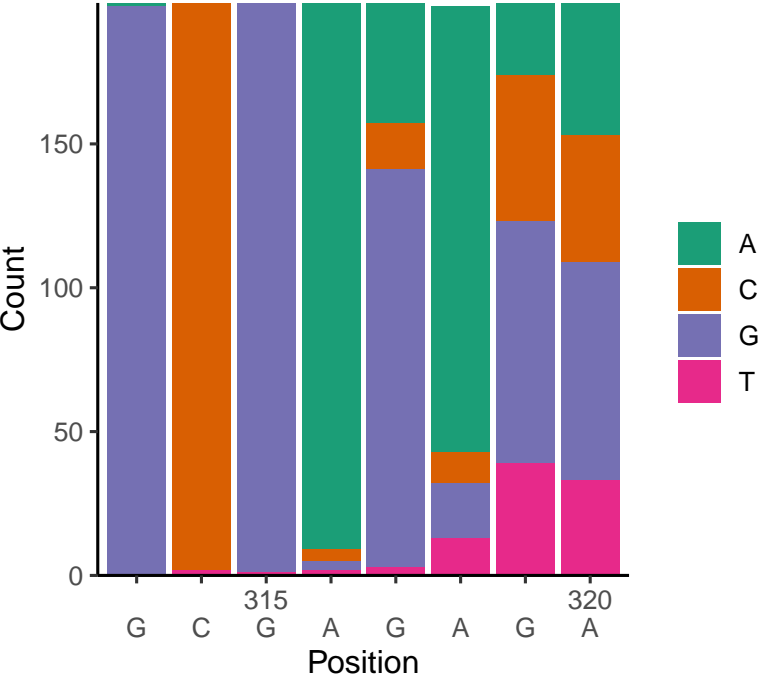
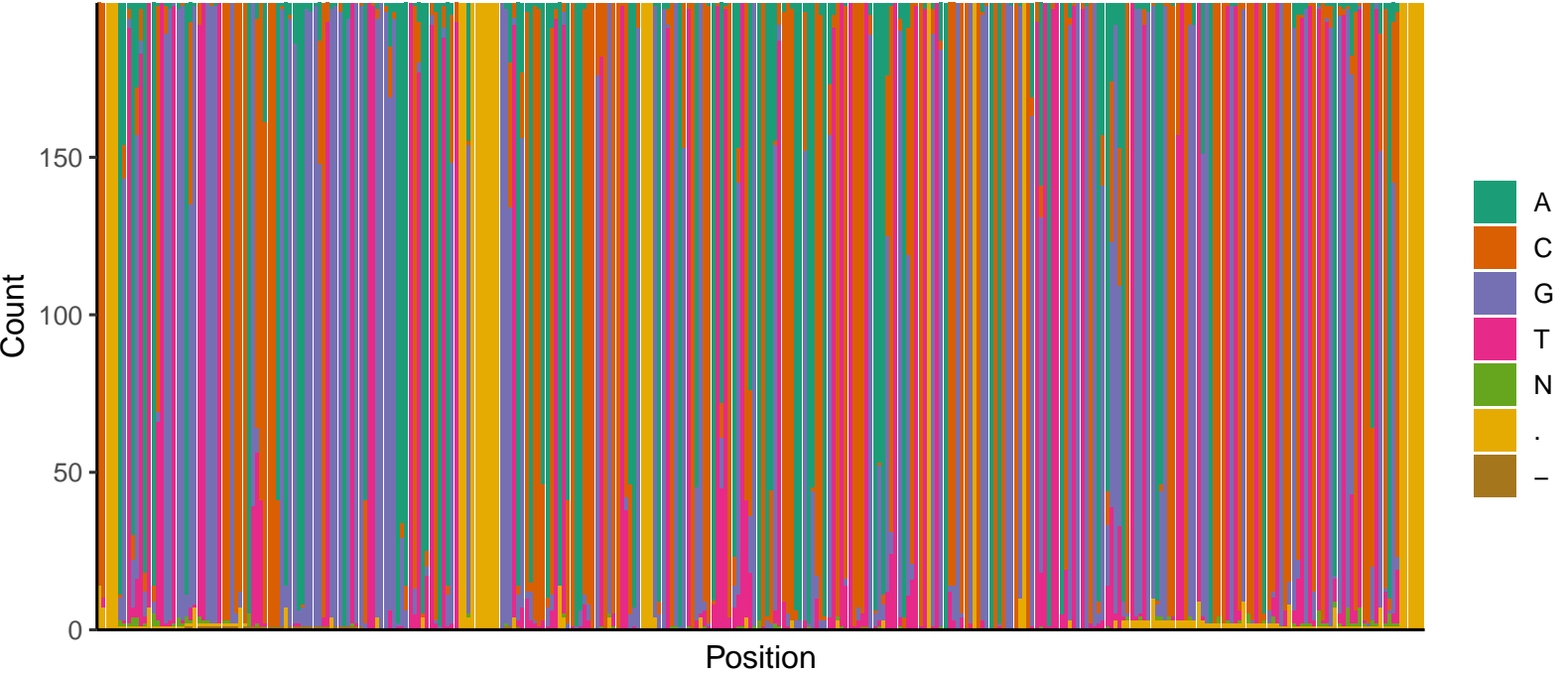


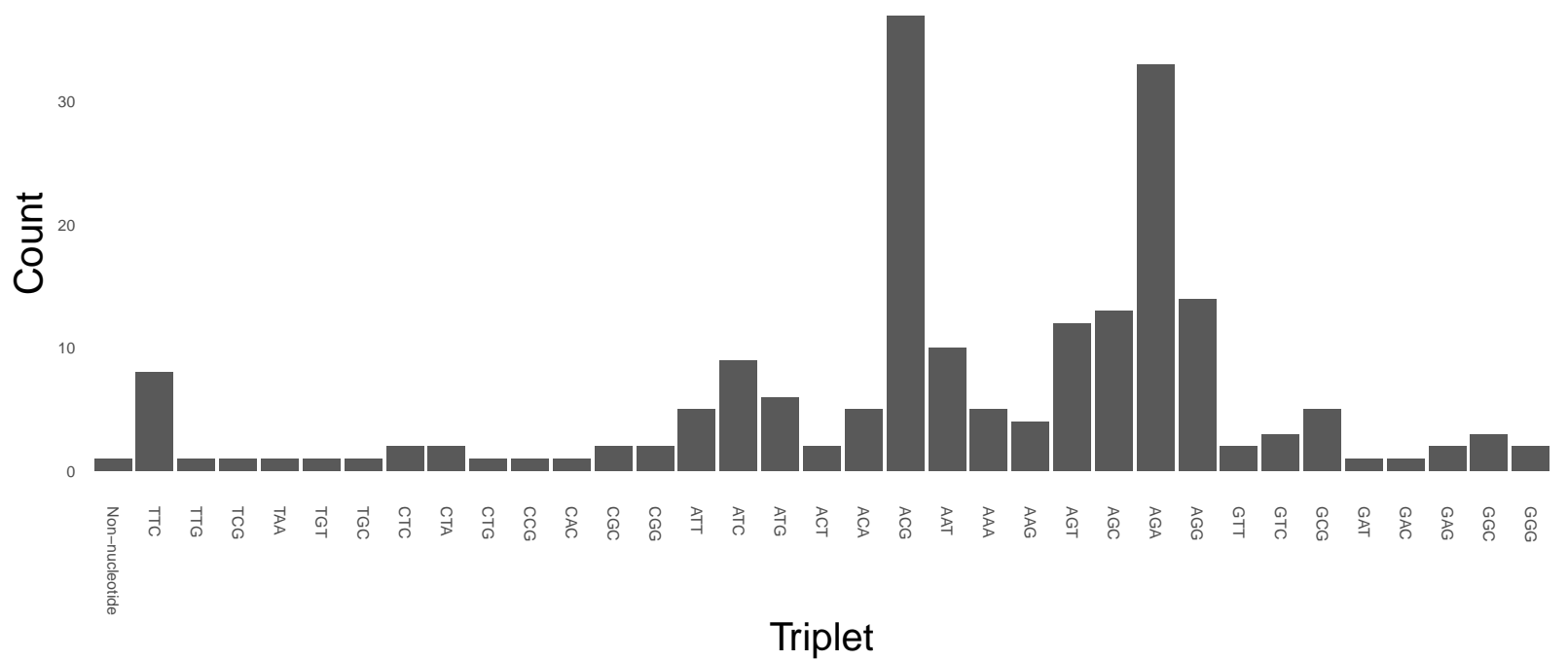
Gene IGHV4-4*02_C20T



Gene IGHV4-4*02_C20T

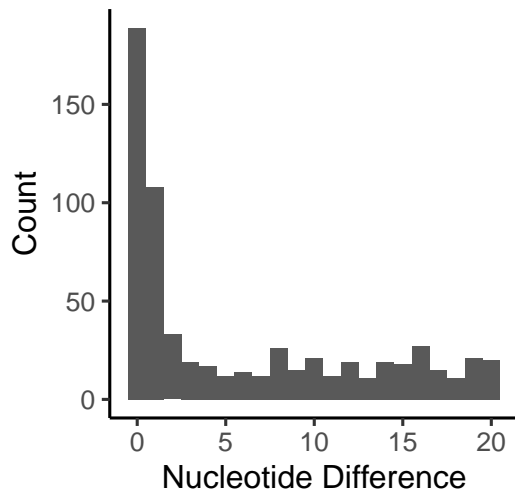


IGHV4-4*02_C20T- Final 3 nucleotides as a triplet



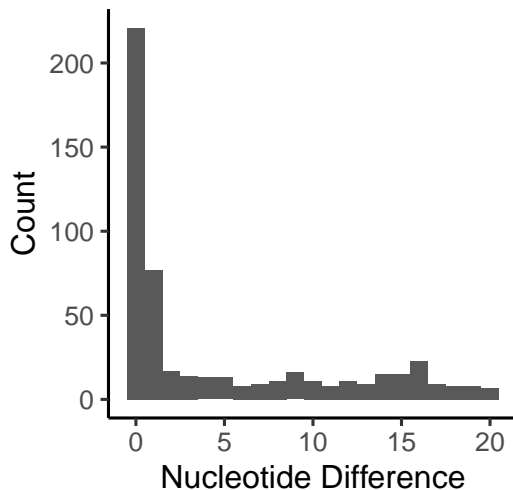
IGHV1-2*02

1006 sequences assigned
189 (18.8%) exact matches, in which:
189 unique CDR3
6 unique J



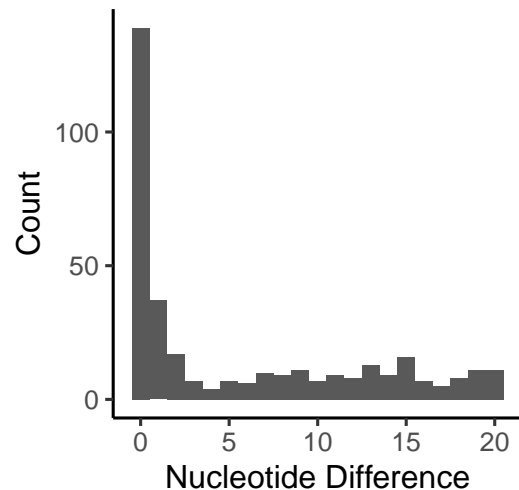
IGHV1-18*01

708 sequences assigned
221 (31.2%) exact matches, in which:
220 unique CDR3
7 unique J



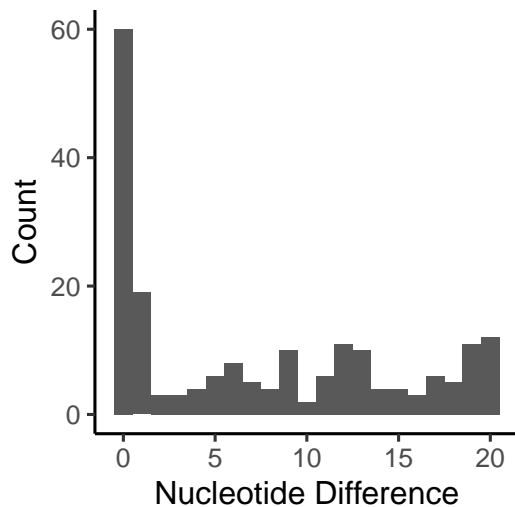
IGHV1-46*01

574 sequences assigned
139 (24.2%) exact matches, in which:
137 unique CDR3
7 unique J



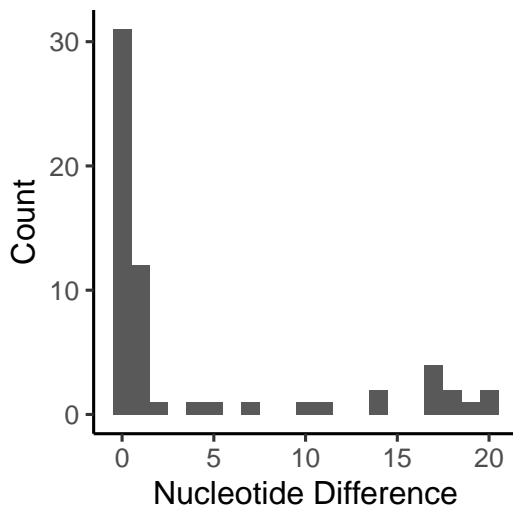
IGHV1-3*01

394 sequences assigned
60 (15.2%) exact matches, in which:
60 unique CDR3
6 unique J



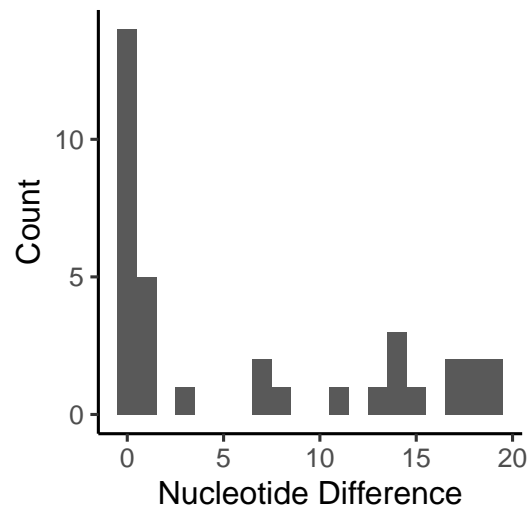
IGHV1-24*01

70 sequences assigned
31 (44.3%) exact matches, in which:
31 unique CDR3
5 unique J



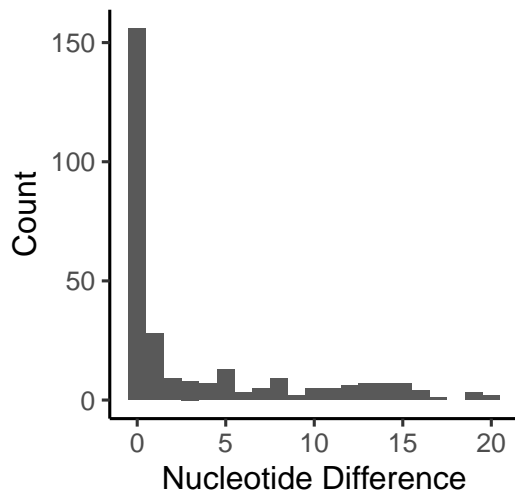
IGHV1-58*01

44 sequences assigned
14 (31.8%) exact matches, in which:
14 unique CDR3
4 unique J



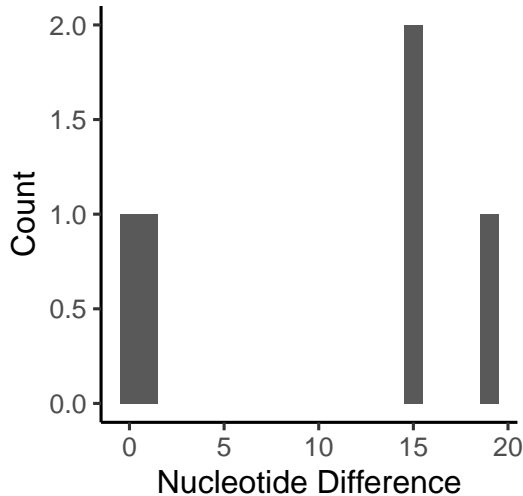
IGHV1-8*01

390 sequences assigned
156 (40%) exact matches, in which:
156 unique CDR3
5 unique J



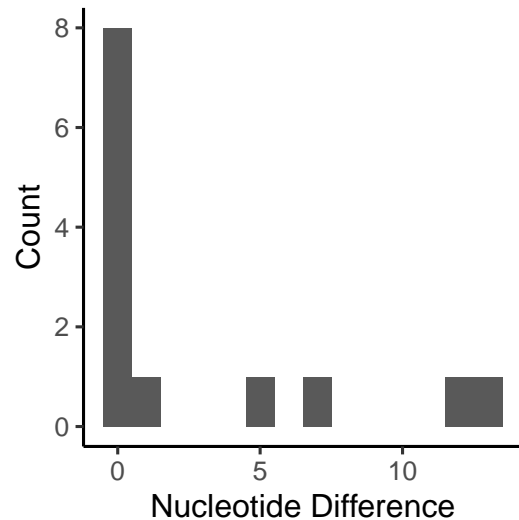
IGHV1-45*02

39 sequences assigned
1 (2.6%) exact matches, in which:
1 unique CDR3
1 unique J



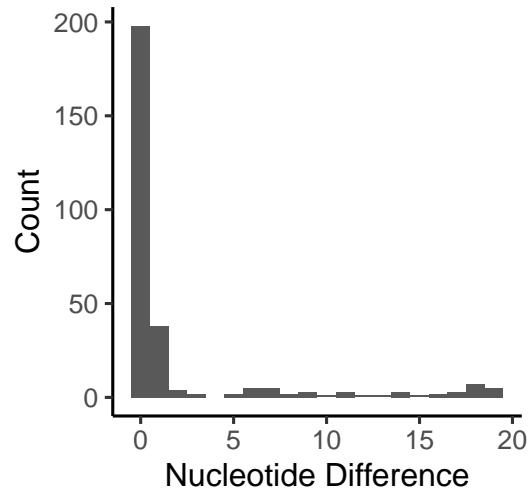
IGHV1-58*02

13 sequences assigned
8 (61.5%) exact matches, in which:
8 unique CDR3
4 unique J



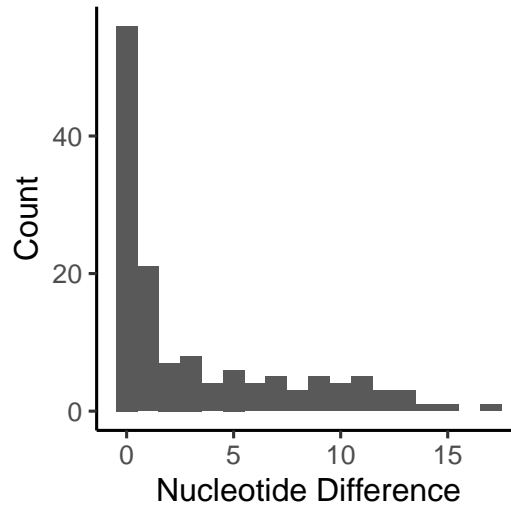
IGHV1–69*04

533 sequences assigned
198 (37.1%) exact matches, in which:
198 unique CDR3
6 unique J



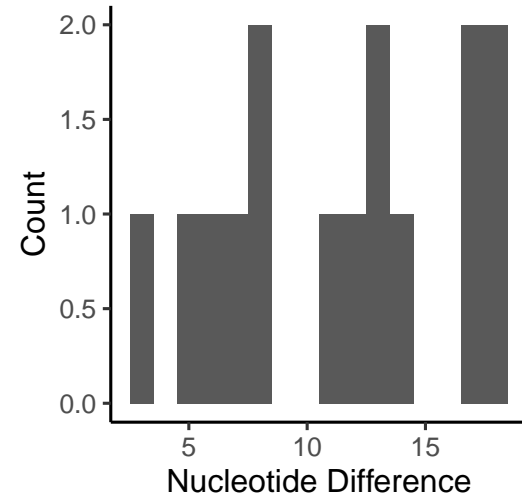
IGHV2–26*01

155 sequences assigned
56 (36.1%) exact matches, in which:
56 unique CDR3
6 unique J



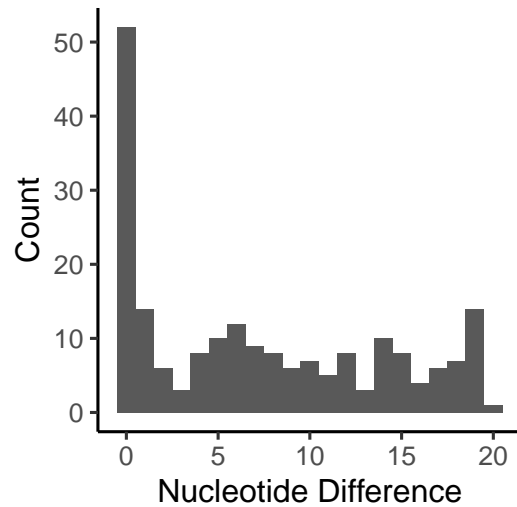
IGHV2–70*17

15 sequences assigned
No exact matches.



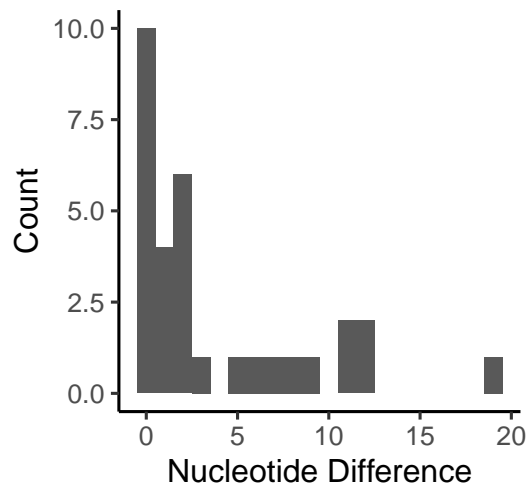
IGHV2–5*01

243 sequences assigned
52 (21.4%) exact matches, in which:
52 unique CDR3
5 unique J



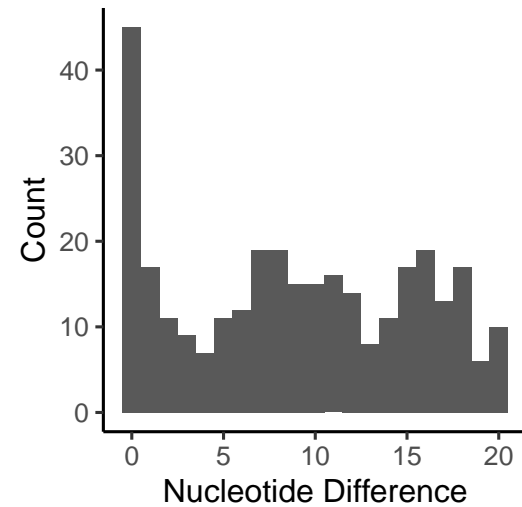
IGHV2–70*01

33 sequences assigned
10 (30.3%) exact matches, in which:
10 unique CDR3
4 unique J



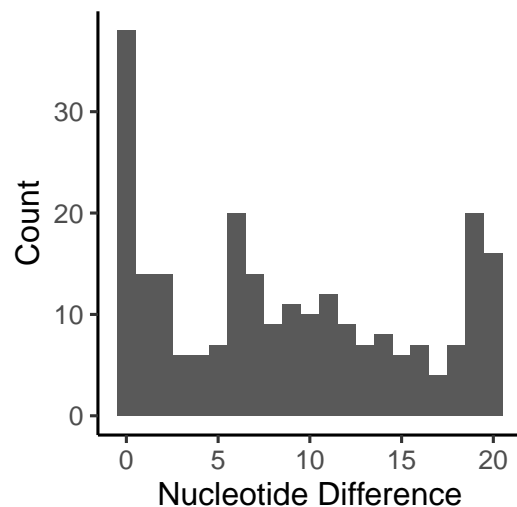
IGHV3–7*01

384 sequences assigned
45 (11.7%) exact matches, in which:
43 unique CDR3
5 unique J



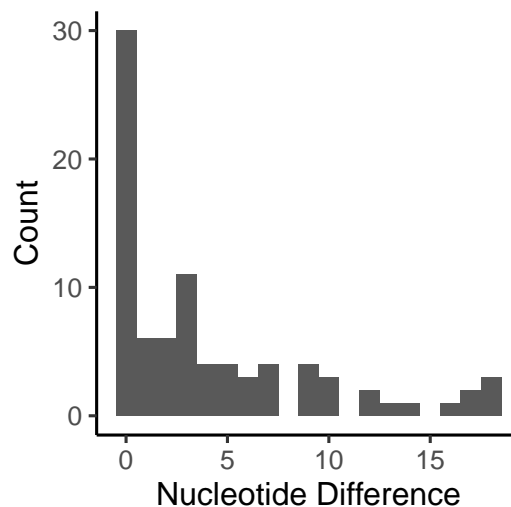
IGHV2–5*02

579 sequences assigned
38 (6.6%) exact matches, in which:
38 unique CDR3
5 unique J



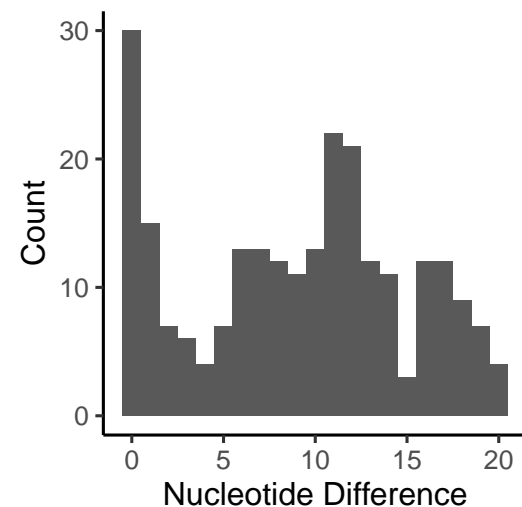
IGHV2–70*15

87 sequences assigned
30 (34.5%) exact matches, in which:
29 unique CDR3
5 unique J



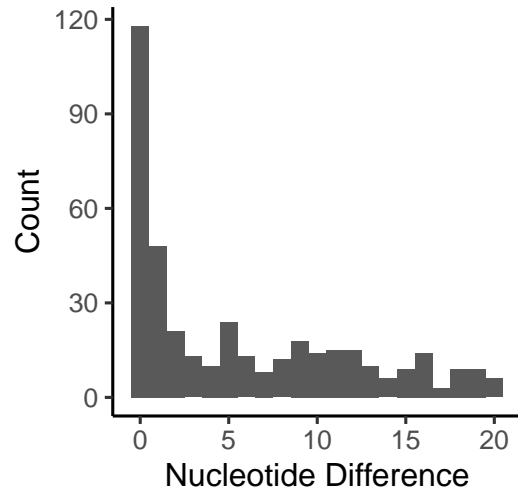
IGHV3–7*03

306 sequences assigned
30 (9.8%) exact matches, in which:
30 unique CDR3
5 unique J



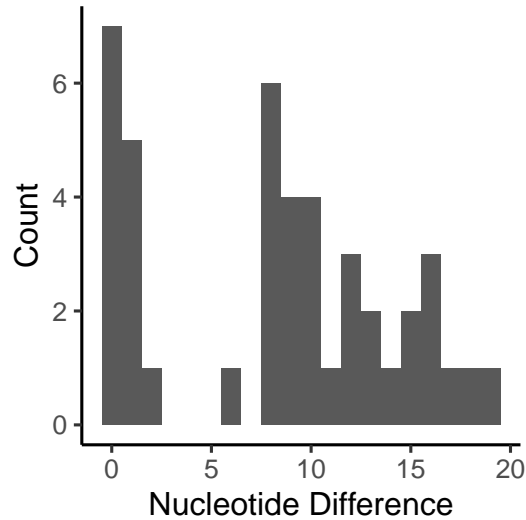
IGHV3-9*01

514 sequences assigned
118 (23%) exact matches, in which:
117 unique CDR3
6 unique J



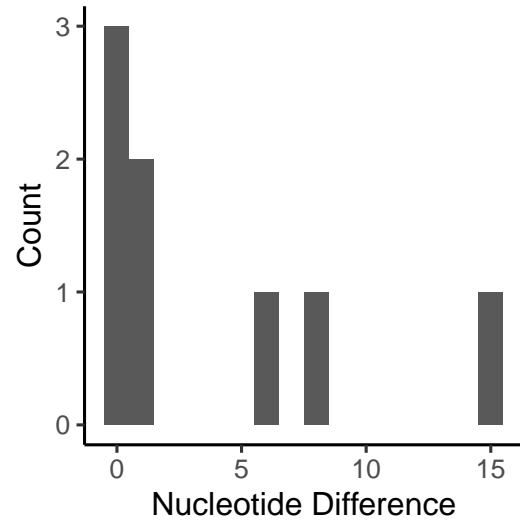
IGHV3-13*01

45 sequences assigned
7 (15.6%) exact matches, in which:
7 unique CDR3
5 unique J



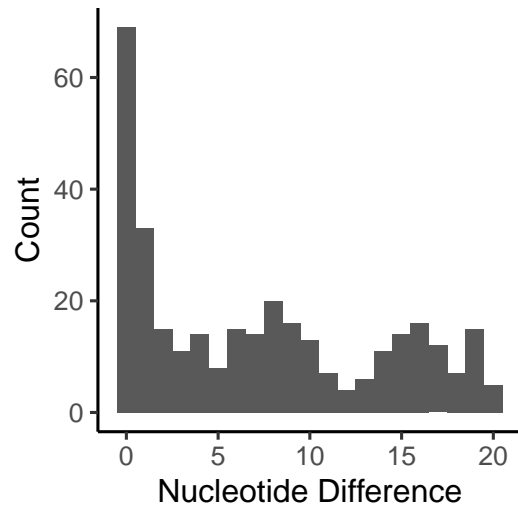
IGHV3-20*01

8 sequences assigned
3 (37.5%) exact matches, in which:
3 unique CDR3
3 unique J



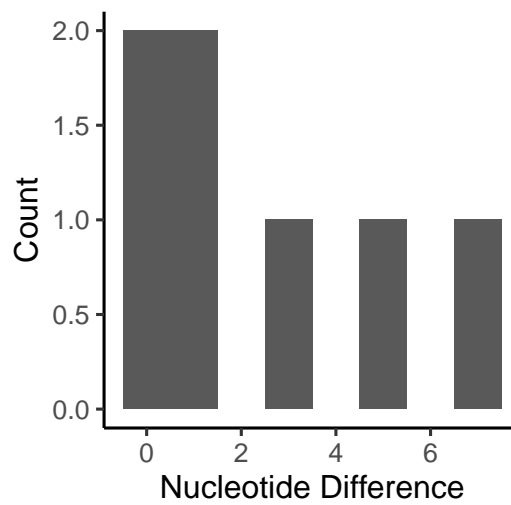
IGHV3-11*01

366 sequences assigned
69 (18.9%) exact matches, in which:
69 unique CDR3
6 unique J



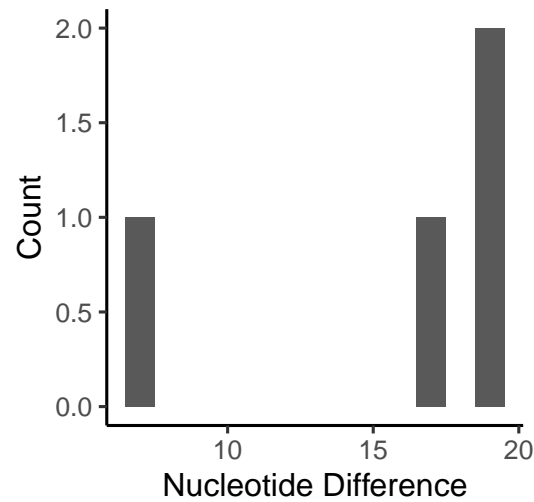
IGHV3-13*05

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



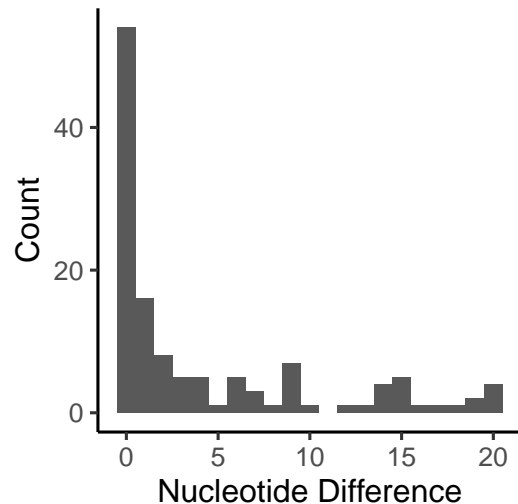
IGHV3-20*04

10 sequences assigned
No exact matches.



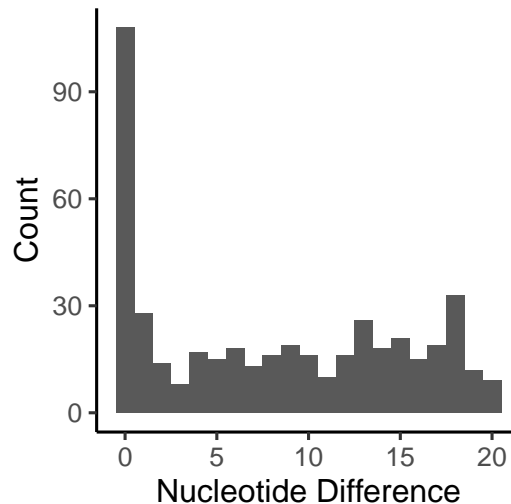
IGHV3-11*06

151 sequences assigned
54 (35.8%) exact matches, in which:
54 unique CDR3
6 unique J



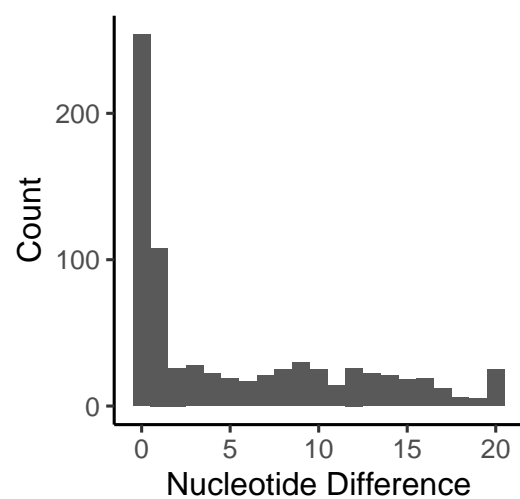
IGHV3-15*01

585 sequences assigned
108 (18.5%) exact matches, in which:
108 unique CDR3
7 unique J



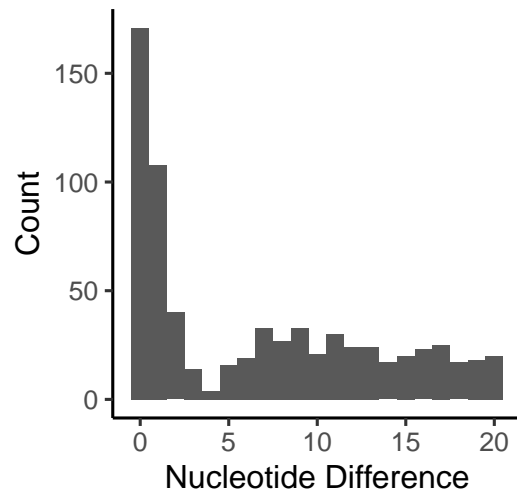
IGHV3-21*01

875 sequences assigned
254 (29%) exact matches, in which:
248 unique CDR3
7 unique J



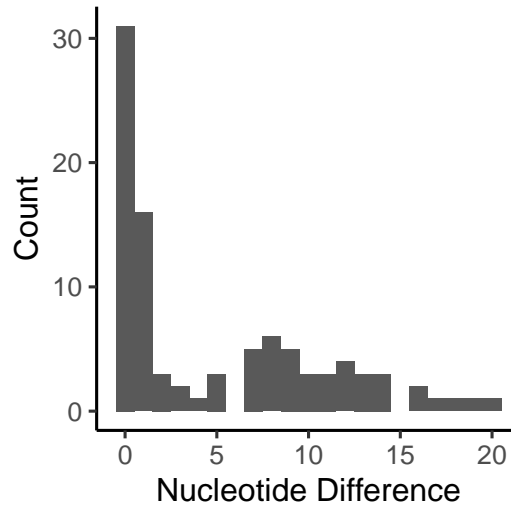
IGHV3-30-3*01

1767 sequences assigned
171 (9.7%) exact matches, in which:
170 unique CDR3
6 unique J



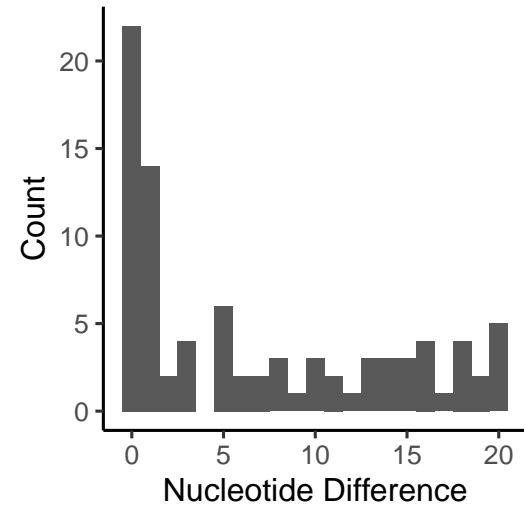
IGHV3-43*02

119 sequences assigned
31 (26.1%) exact matches, in which:
31 unique CDR3
5 unique J



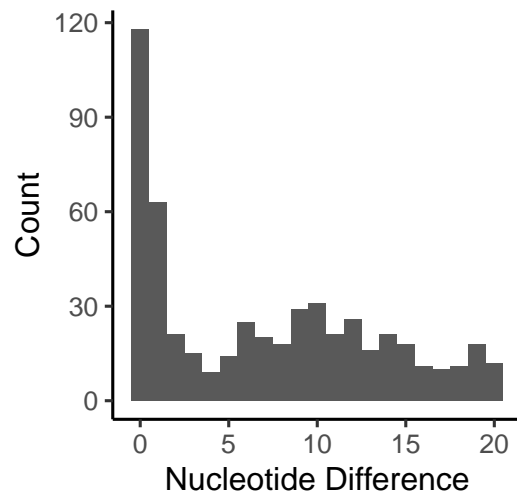
IGHV3-49*04

140 sequences assigned
22 (15.7%) exact matches, in which:
22 unique CDR3
3 unique J



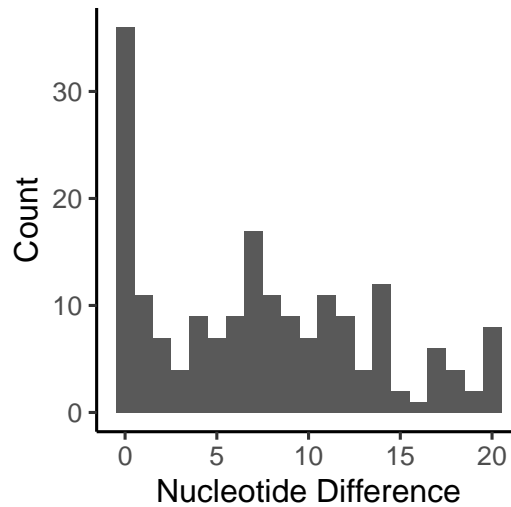
IGHV3-33*01

742 sequences assigned
118 (15.9%) exact matches, in which:
118 unique CDR3
6 unique J



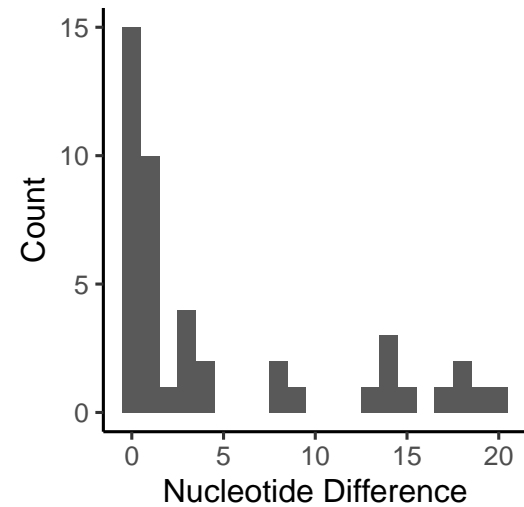
IGHV3-48*02

214 sequences assigned
36 (16.8%) exact matches, in which:
35 unique CDR3
5 unique J



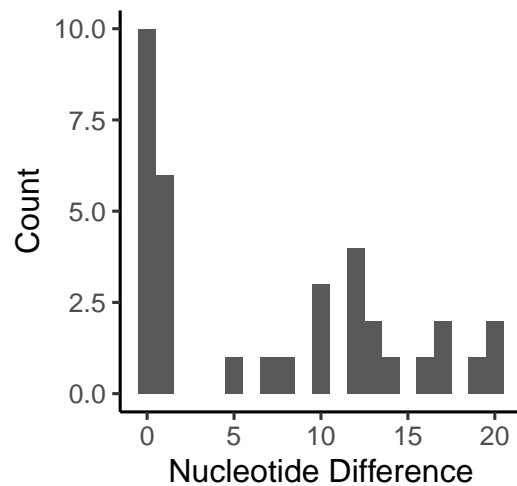
IGHV3-49*05

99 sequences assigned
15 (15.2%) exact matches, in which:
15 unique CDR3
3 unique J



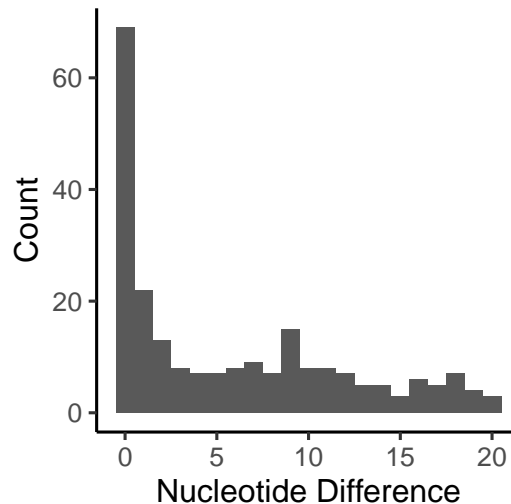
IGHV3-43*01

50 sequences assigned
10 (20%) exact matches, in which:
10 unique CDR3
3 unique J



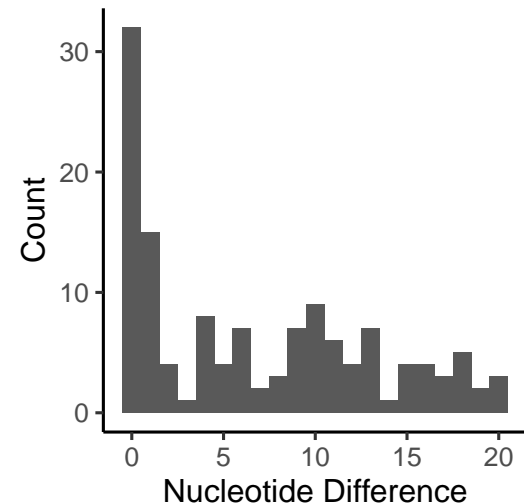
IGHV3-48*03

270 sequences assigned
69 (25.6%) exact matches, in which:
69 unique CDR3
5 unique J



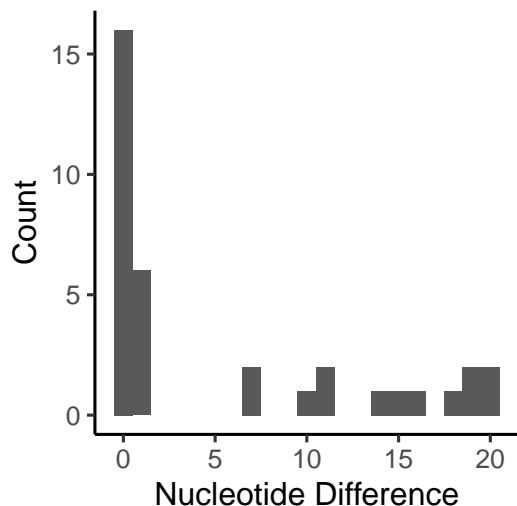
IGHV3-53*01

225 sequences assigned
32 (14.2%) exact matches, in which:
32 unique CDR3
5 unique J



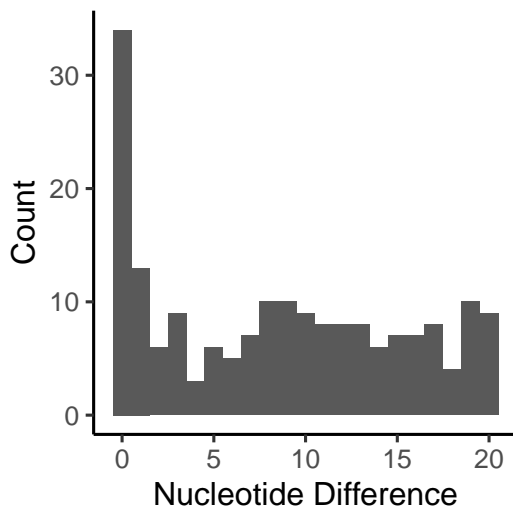
IGHV3-53*04

36 sequences assigned
16 (44.4%) exact matches, in which:
16 unique CDR3
4 unique J



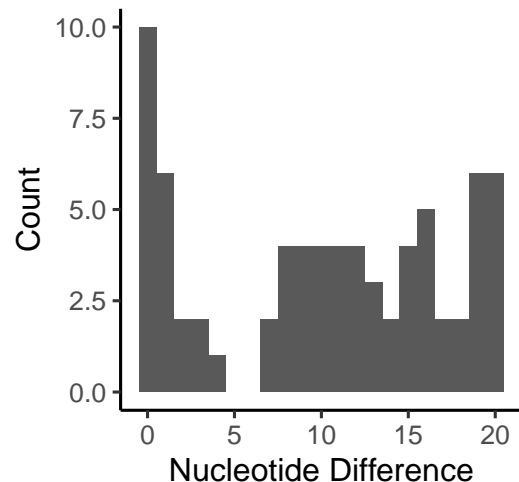
IGHV3-66*01

224 sequences assigned
34 (15.2%) exact matches, in which:
34 unique CDR3
4 unique J



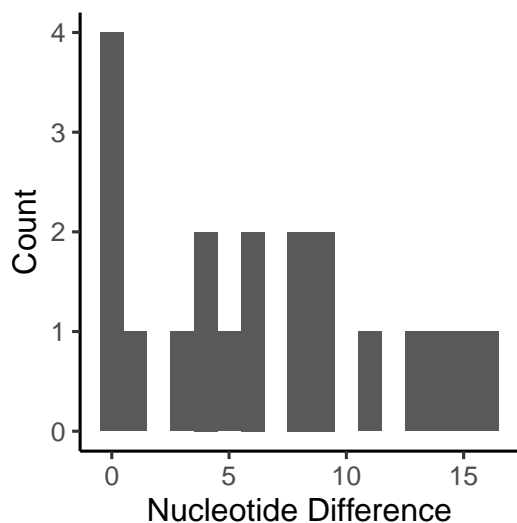
IGHV3-73*02

92 sequences assigned
10 (10.9%) exact matches, in which:
10 unique CDR3
5 unique J



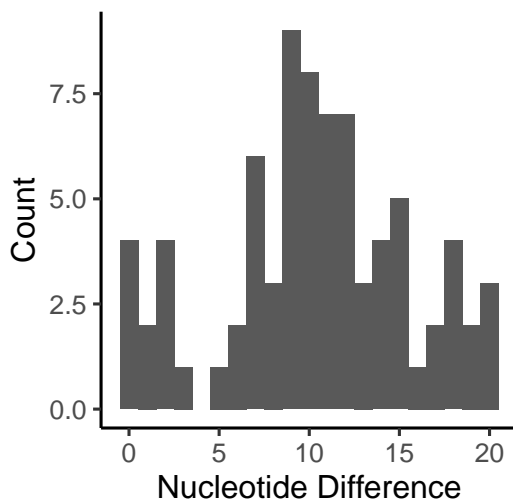
IGHV3-64*01

23 sequences assigned
4 (17.4%) exact matches, in which:
4 unique CDR3
3 unique J



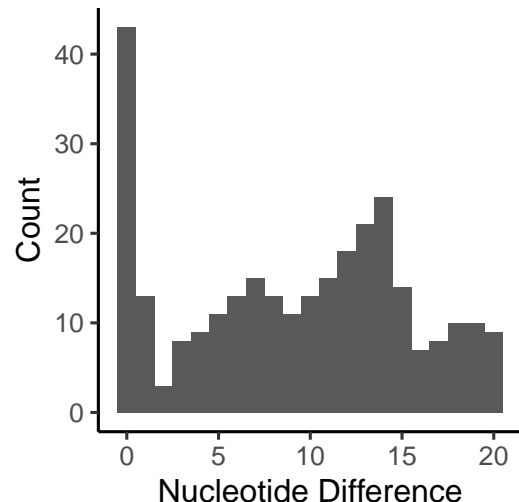
IGHV3-72*01

96 sequences assigned
4 (4.2%) exact matches, in which:
4 unique CDR3
3 unique J



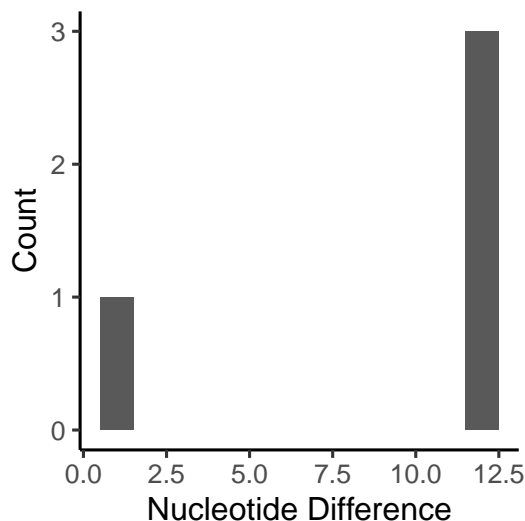
IGHV3-74*01

386 sequences assigned
43 (11.1%) exact matches, in which:
43 unique CDR3
7 unique J



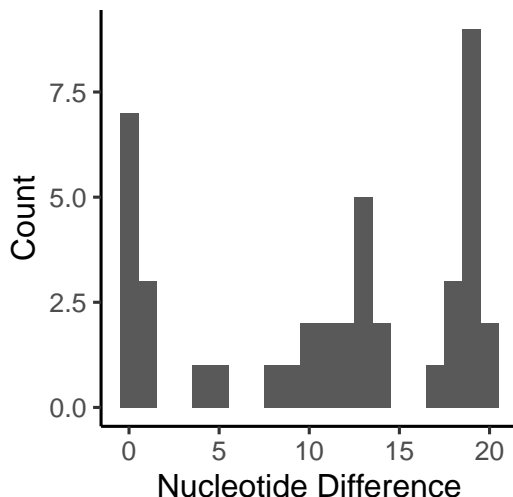
IGHV3-64*07

17 sequences assigned
No exact matches.



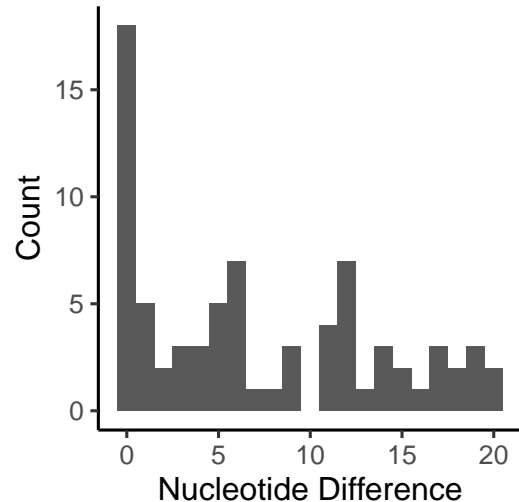
IGHV3-73*01

70 sequences assigned
7 (10%) exact matches, in which:
7 unique CDR3
3 unique J



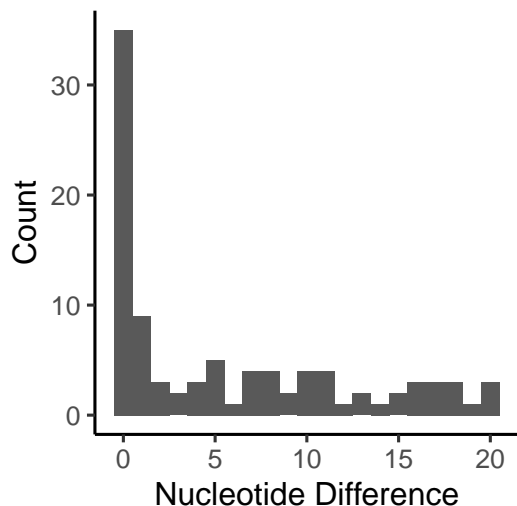
IGHV3-64D*06

99 sequences assigned
18 (18.2%) exact matches, in which:
18 unique CDR3
5 unique J



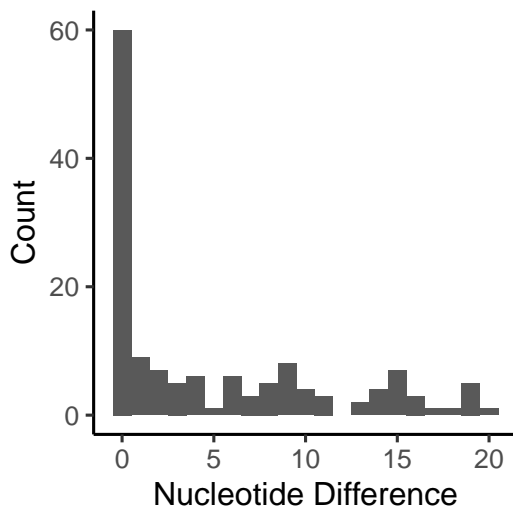
IGHV4-4*07

121 sequences assigned
35 (28.9%) exact matches, in which:
35 unique CDR3
4 unique J



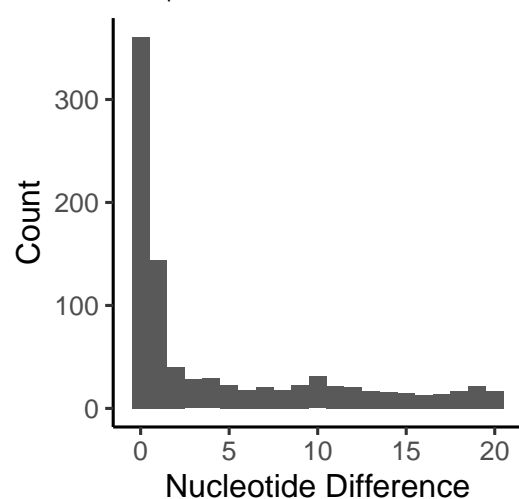
IGHV4-30-4*01

183 sequences assigned
60 (32.8%) exact matches, in which:
59 unique CDR3
5 unique J



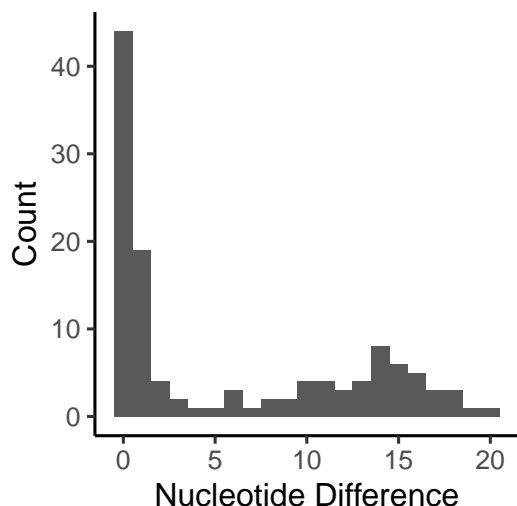
IGHV4-34*01

1223 sequences assigned
361 (29.5%) exact matches, in which:
359 unique CDR3
7 unique J



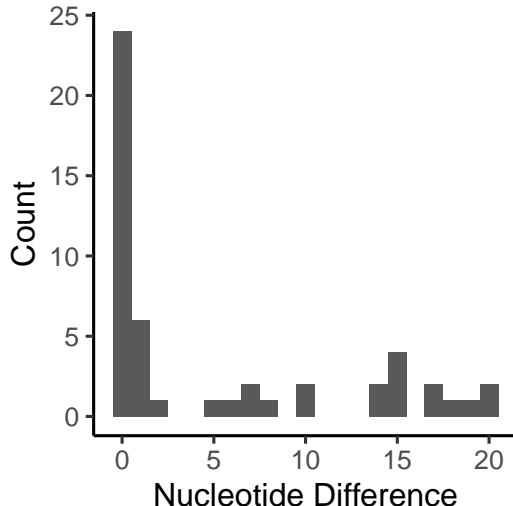
IGHV4-4*02_C20T

199 sequences assigned
44 (22.1%) exact matches, in which:
43 unique CDR3
4 unique J



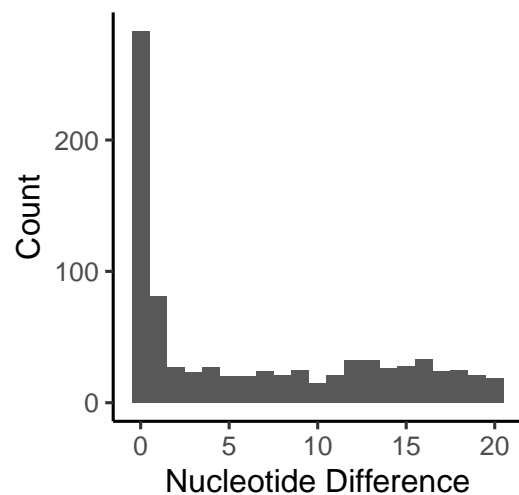
IGHV4-30-2*01

61 sequences assigned
24 (39.3%) exact matches, in which:
24 unique CDR3
4 unique J



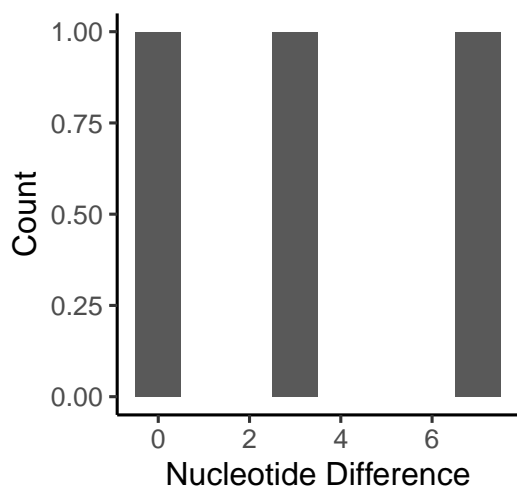
IGHV4-39*01

1208 sequences assigned
283 (23.4%) exact matches, in which:
283 unique CDR3
7 unique J



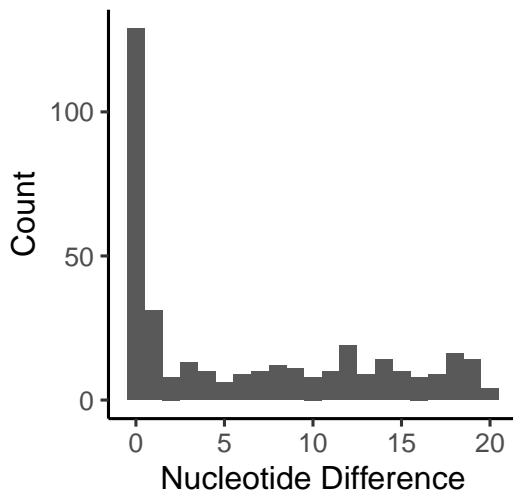
IGHV4-28*01

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



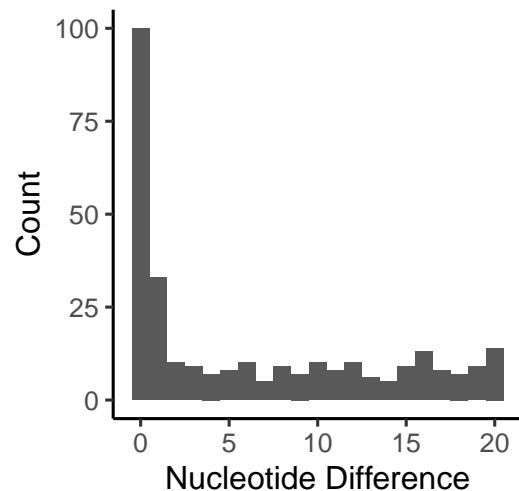
IGHV4-31*03

480 sequences assigned
129 (26.9%) exact matches, in which:
129 unique CDR3
7 unique J



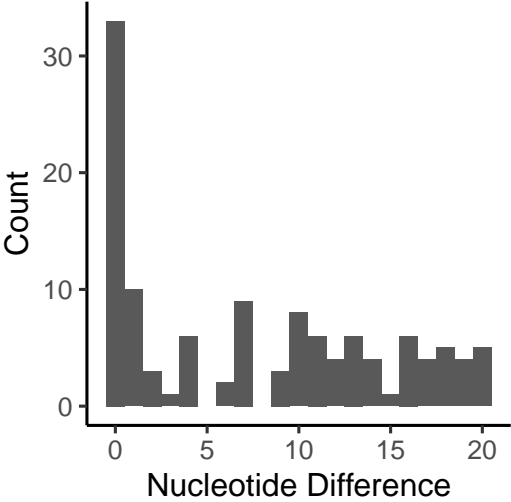
IGHV4-59*01

417 sequences assigned
100 (24%) exact matches, in which:
100 unique CDR3
7 unique J



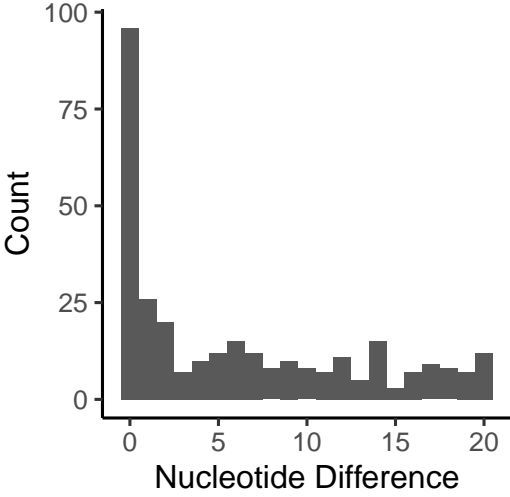
IGHV4-59*08

166 sequences assigned
33 (19.9%) exact matches, in which:
32 unique CDR3
5 unique J



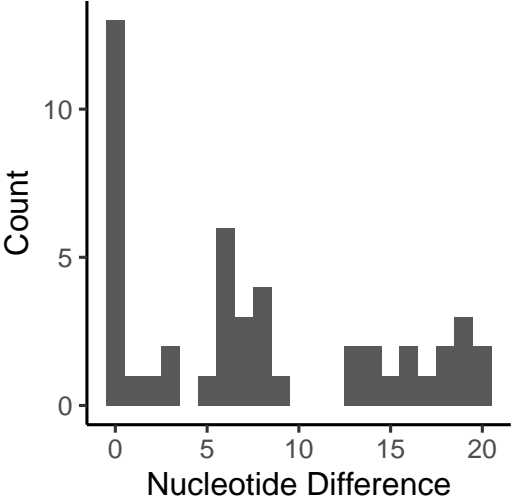
IGHV5-51*01

454 sequences assigned
96 (21.1%) exact matches, in which:
95 unique CDR3
6 unique J



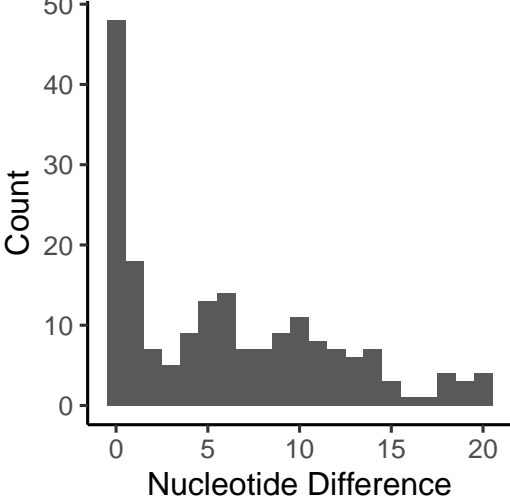
IGHV4-61*01

63 sequences assigned
13 (20.6%) exact matches, in which:
13 unique CDR3
5 unique J



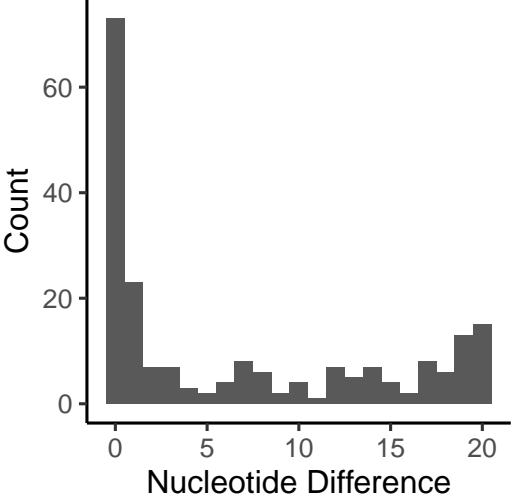
IGHV6-1*01

210 sequences assigned
48 (22.9%) exact matches, in which:
48 unique CDR3
7 unique J



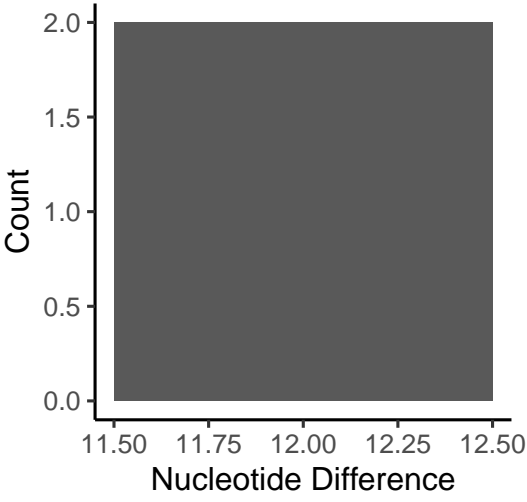
IGHV5-10-1*03

308 sequences assigned
73 (23.7%) exact matches, in which:
73 unique CDR3
5 unique J

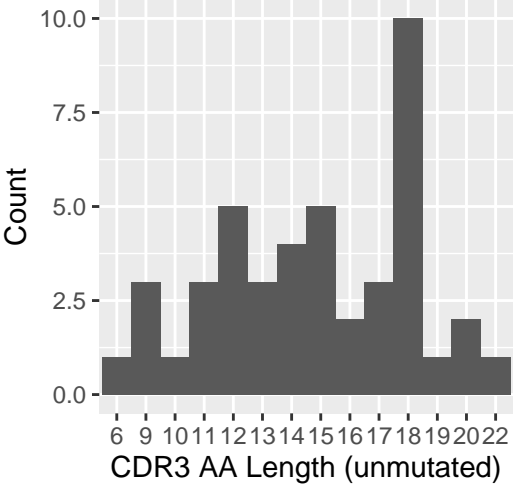


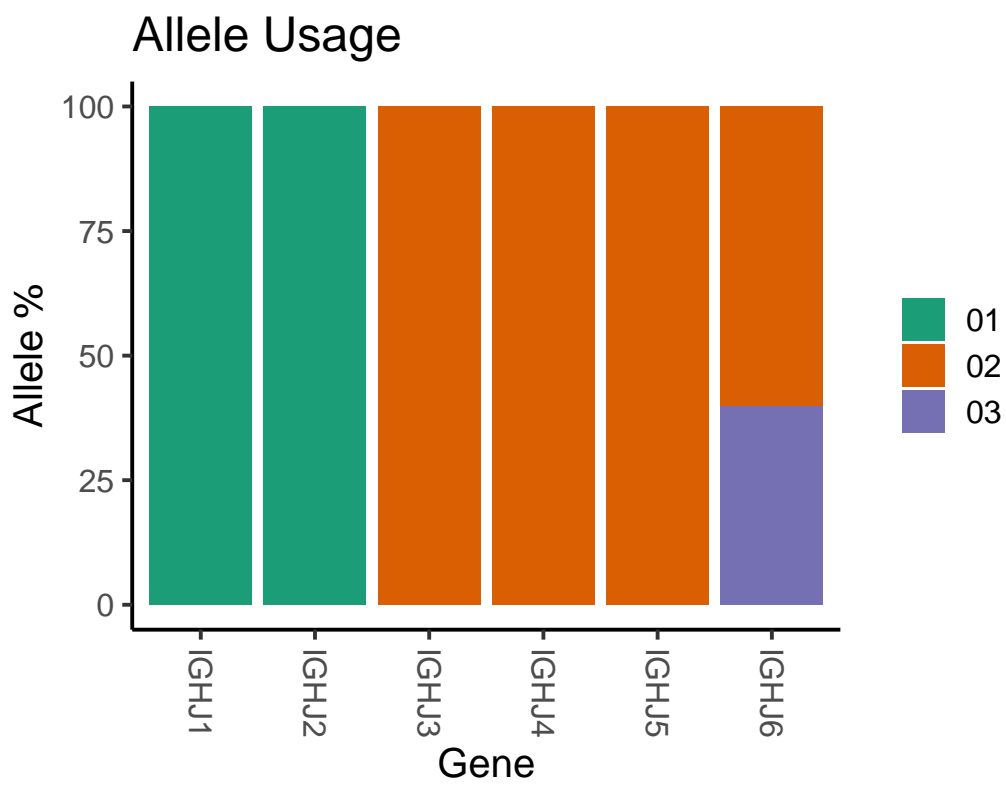
IGHV7-4-1*01

2 sequences assigned
No exact matches.



IGHV4-4*02_C20T





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

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