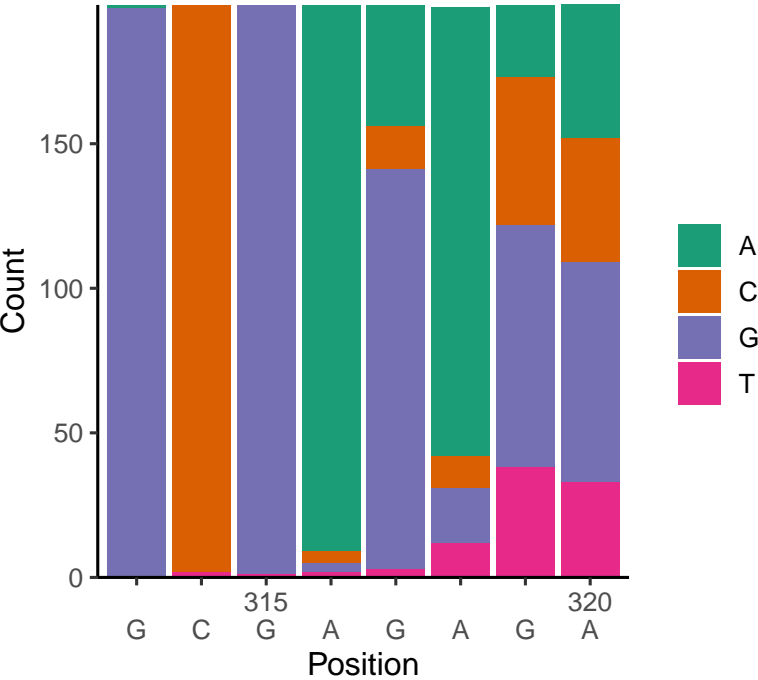


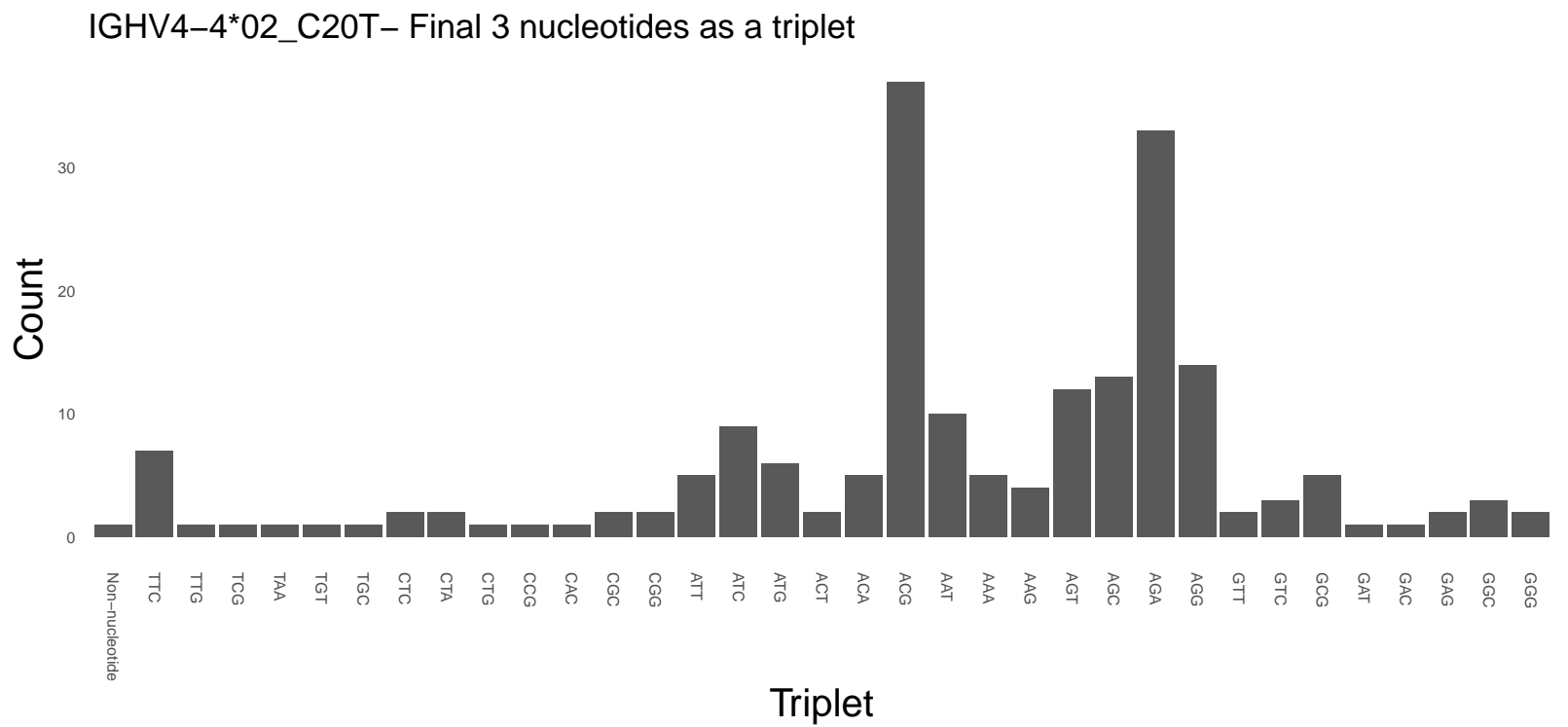
Gene IGHV4-4*02_C20T



Gene IGHV4-4*02_C20T

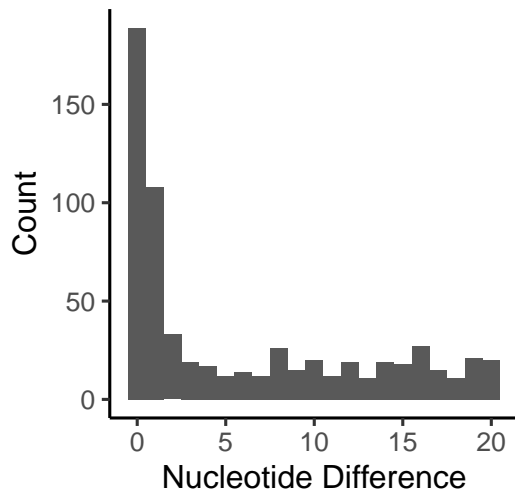


IGHV4-4*02_C20T- Final 3 nucleotides as a triplet



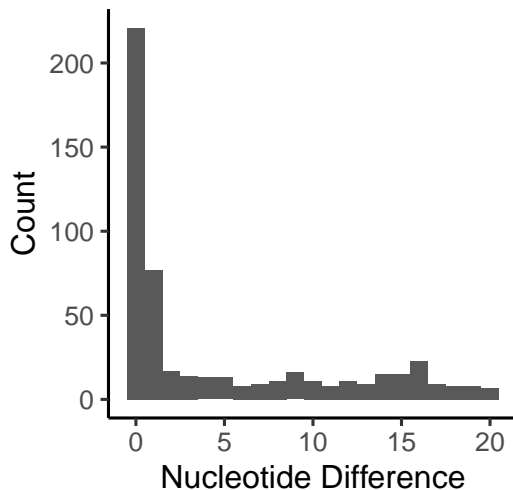
IGHV1-2*02

1004 sequences assigned
189 (18.8%) exact matches, in which:
189 unique CDR3
6 unique J



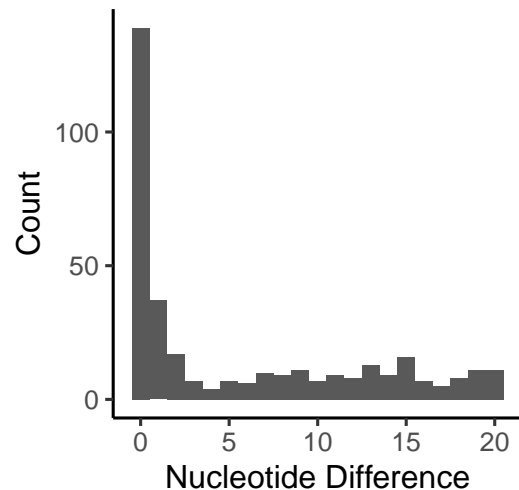
IGHV1-18*01

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



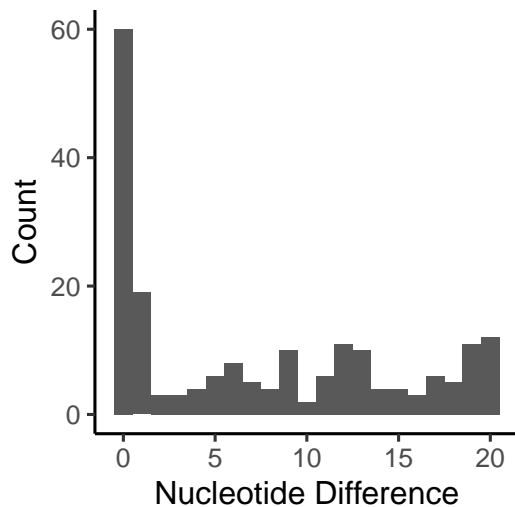
IGHV1-46*01

572 sequences assigned
139 (24.3%) exact matches, in which:
137 unique CDR3
7 unique J



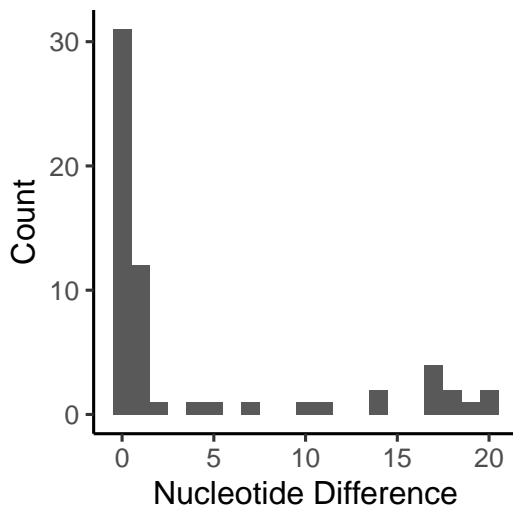
IGHV1-3*01

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



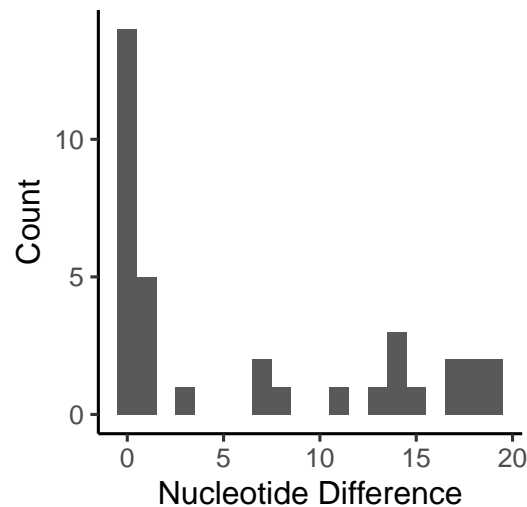
IGHV1-24*01

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



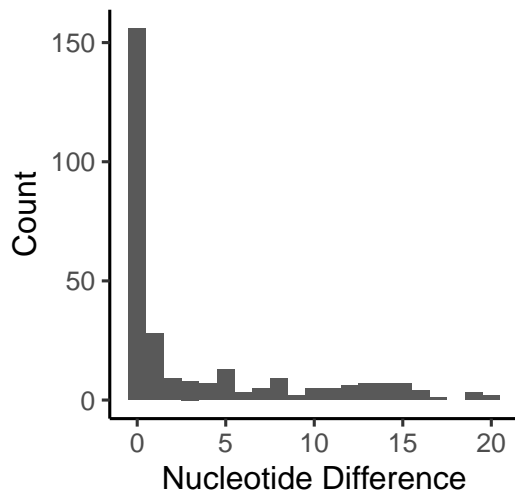
IGHV1-58*01

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



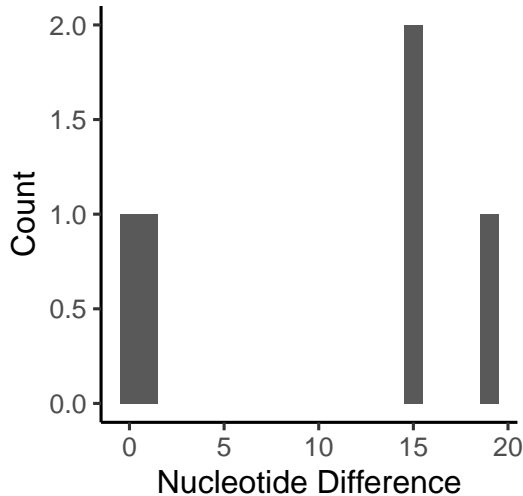
IGHV1-8*01

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



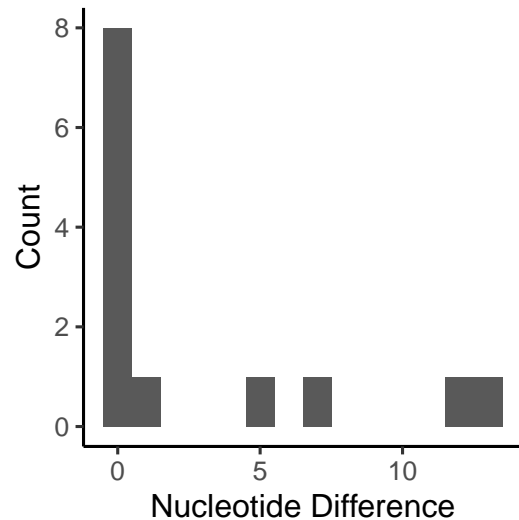
IGHV1-45*02

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



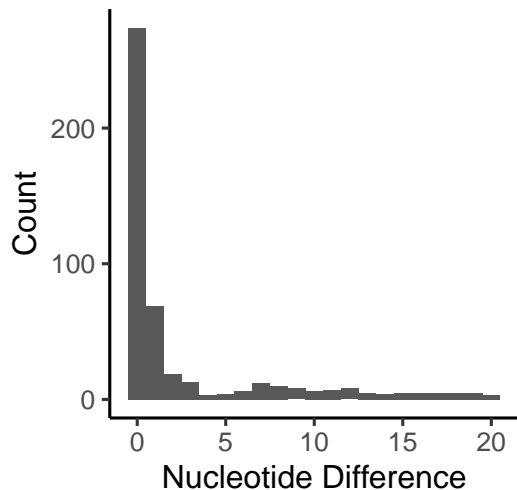
IGHV1-58*02

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



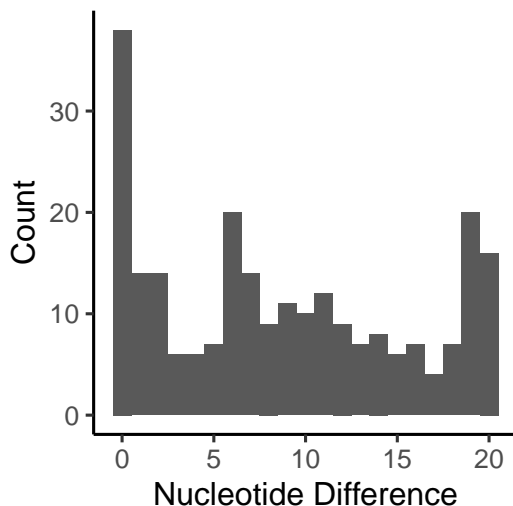
IGHV1–69*01

616 sequences assigned
274 (44.5%) exact matches, in which:
274 unique CDR3
7 unique J



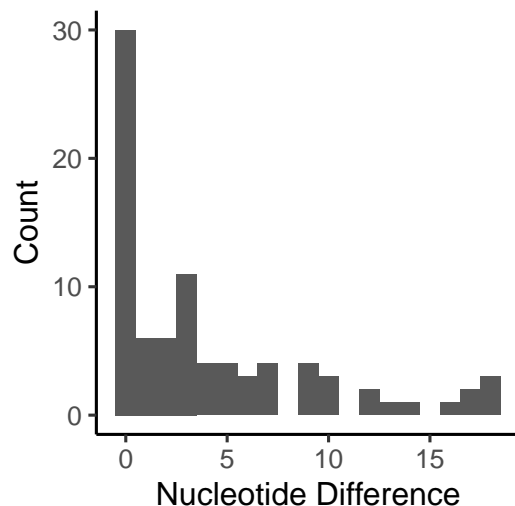
IGHV2–5*02

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



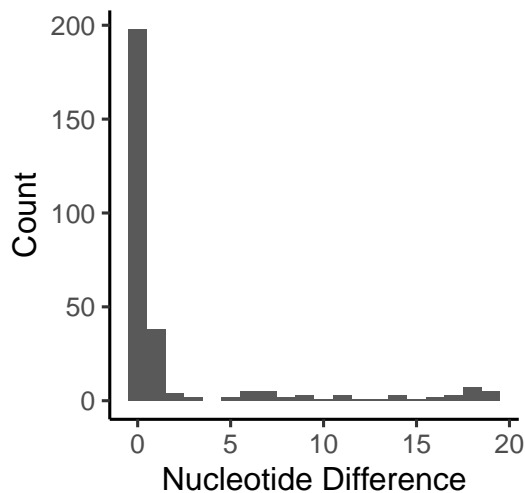
IGHV2–70*15

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



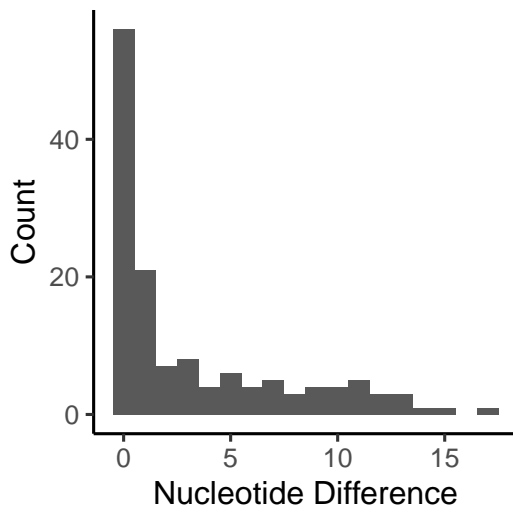
IGHV1–69*04

531 sequences assigned
198 (37.3%) exact matches, in which:
198 unique CDR3
6 unique J



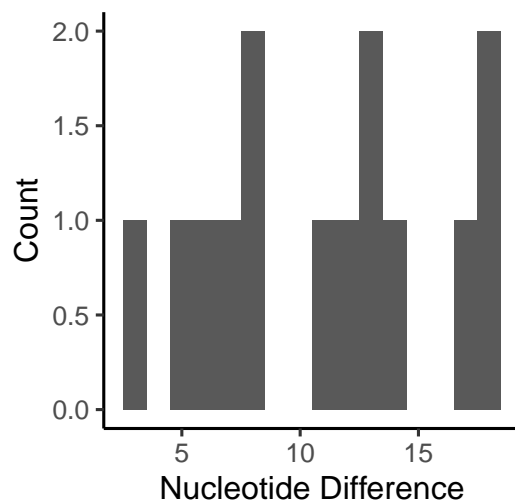
IGHV2–26*01

154 sequences assigned
56 (36.4%) exact matches, in which:
56 unique CDR3
6 unique J



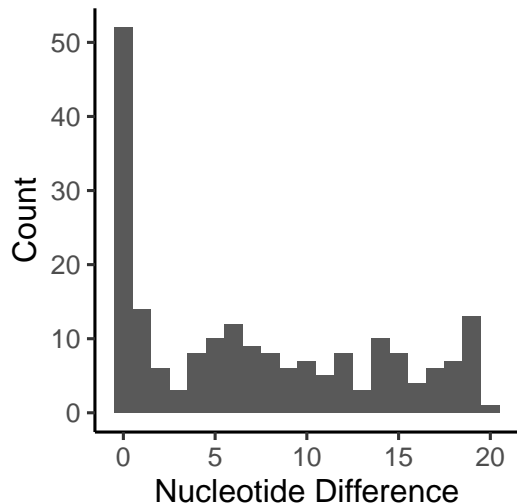
IGHV2–70*17

14 sequences assigned
No exact matches.



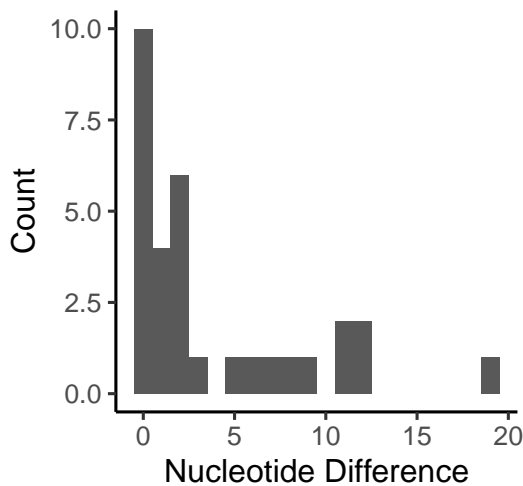
IGHV2–5*01

241 sequences assigned
52 (21.6%) exact matches, in which:
52 unique CDR3
5 unique J



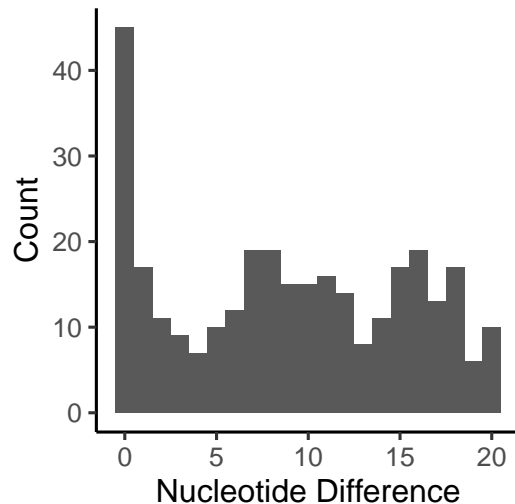
IGHV2–70*01

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



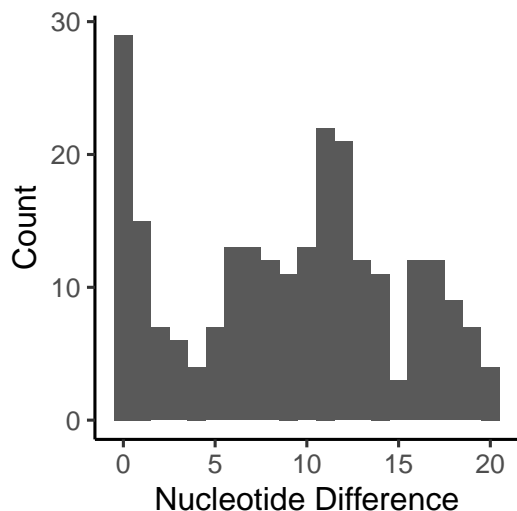
IGHV3–7*01

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



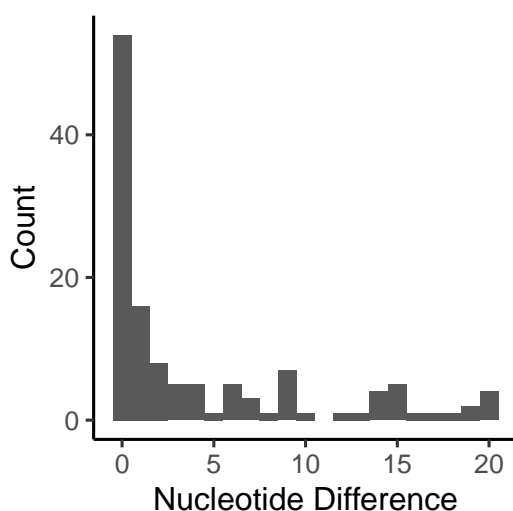
IGHV3-7*03

305 sequences assigned
29 (9.5%) exact matches, in which:
29 unique CDR3
5 unique J



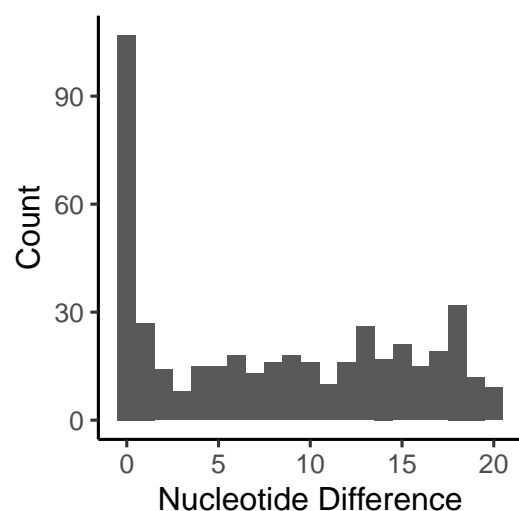
IGHV3-11*06

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



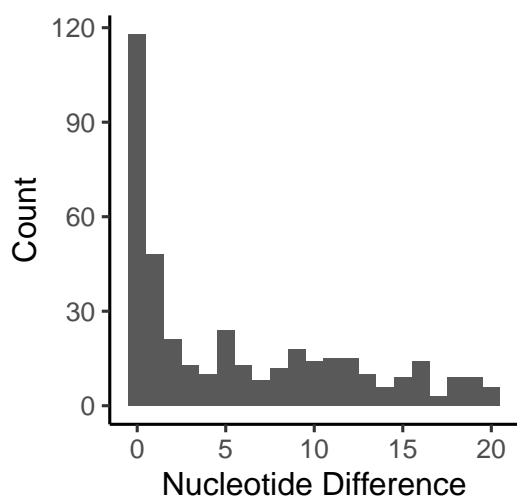
IGHV3-15*01

577 sequences assigned
107 (18.5%) exact matches, in which:
107 unique CDR3
7 unique J



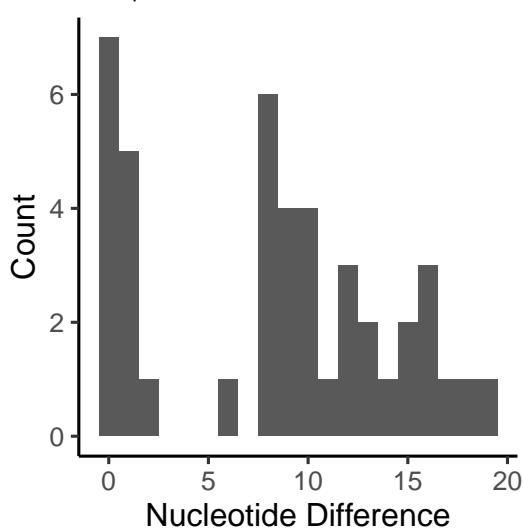
IGHV3-9*01

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



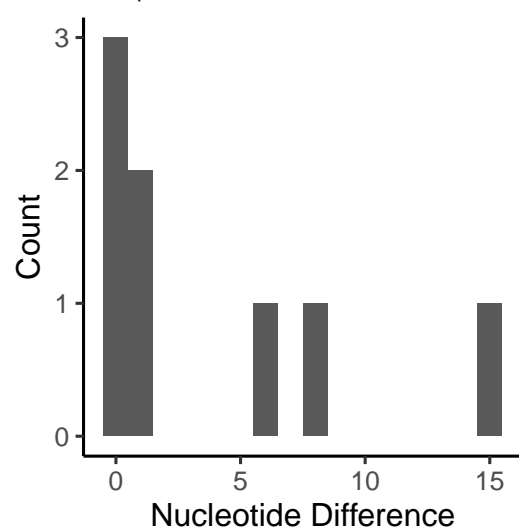
IGHV3-13*01

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



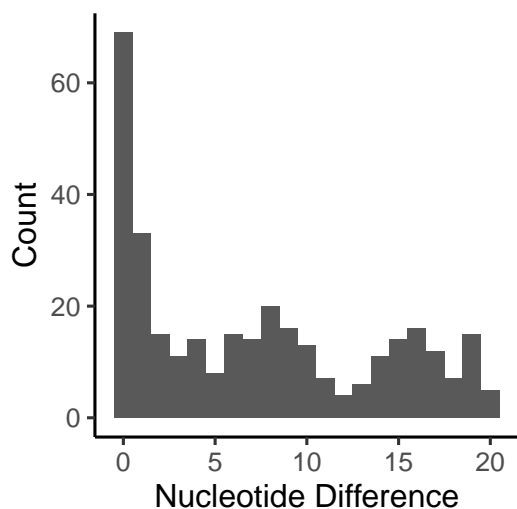
IGHV3-20*01

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



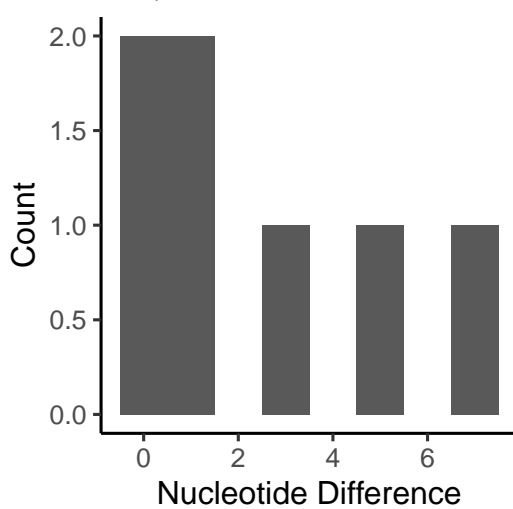
IGHV3-11*01

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



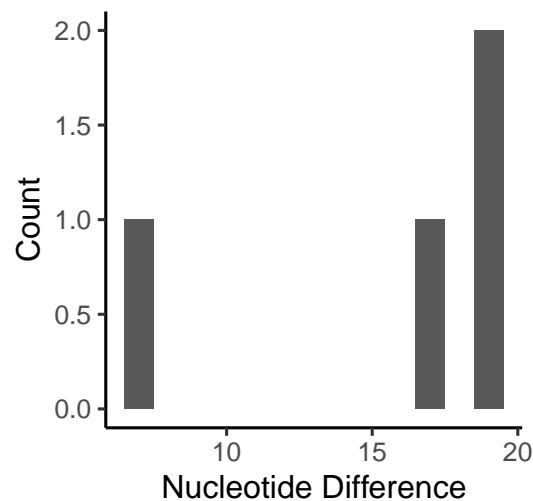
IGHV3-13*05

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



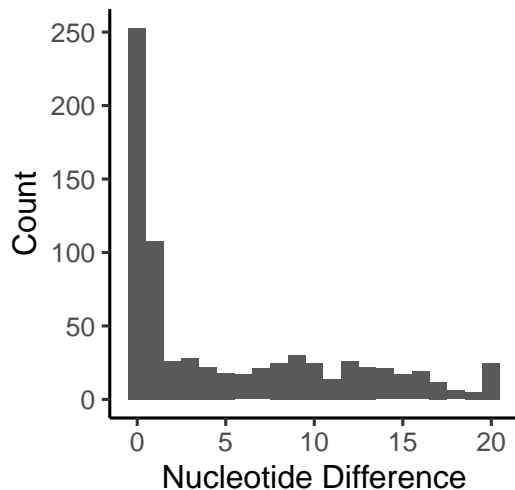
IGHV3-20*04

10 sequences assigned
No exact matches.



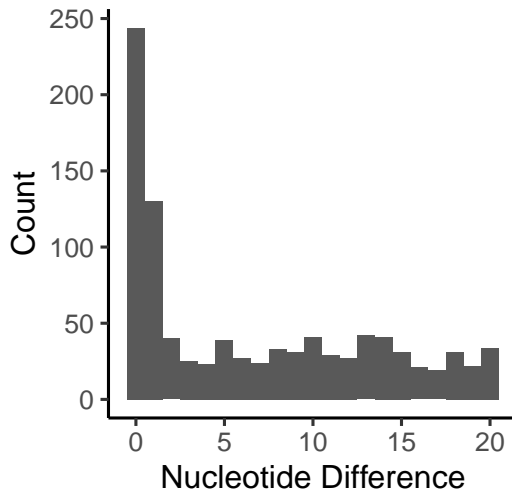
IGHV3-21*01

871 sequences assigned
253 (29%) exact matches, in which:
247 unique CDR3
6 unique J



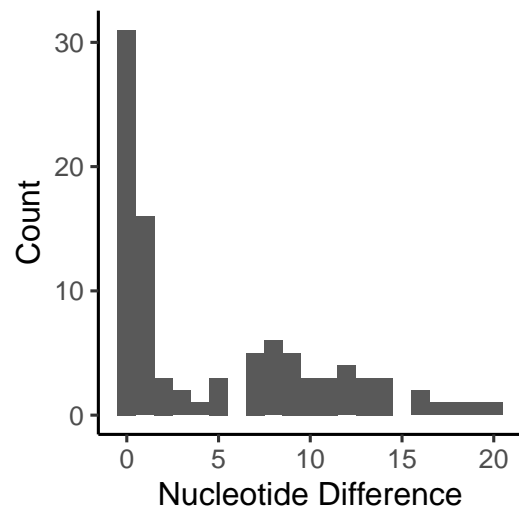
IGHV3-30*18

1463 sequences assigned
244 (16.7%) exact matches, in which:
242 unique CDR3
7 unique J



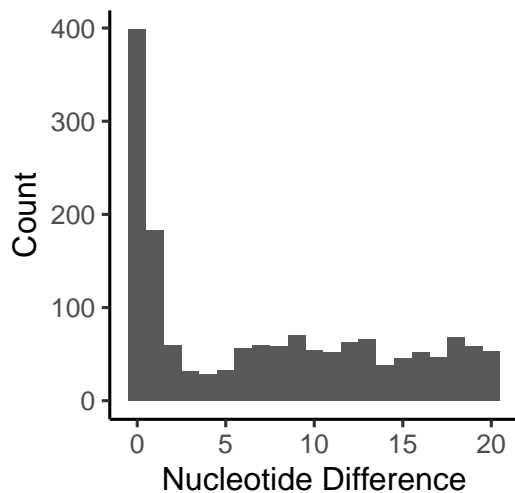
IGHV3-43*02

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



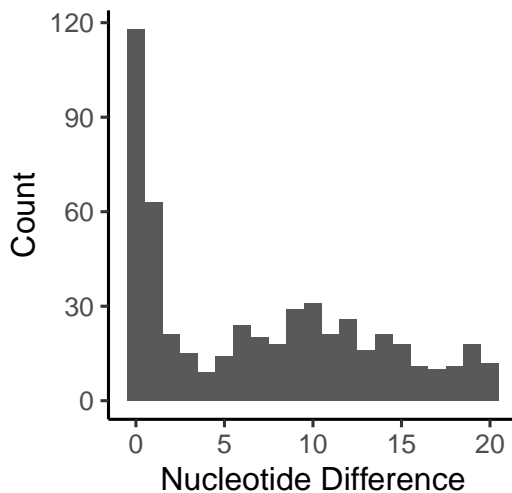
IGHV3-23*01

2260 sequences assigned
399 (17.7%) exact matches, in which:
397 unique CDR3
7 unique J



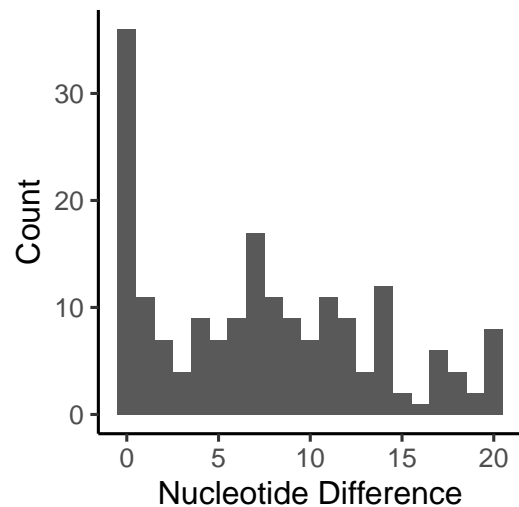
IGHV3-33*01

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



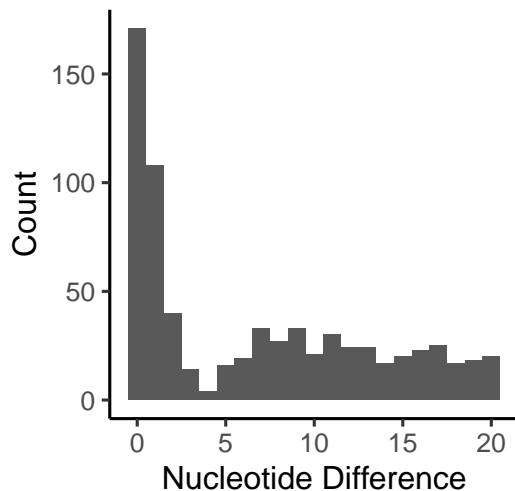
IGHV3-48*02

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



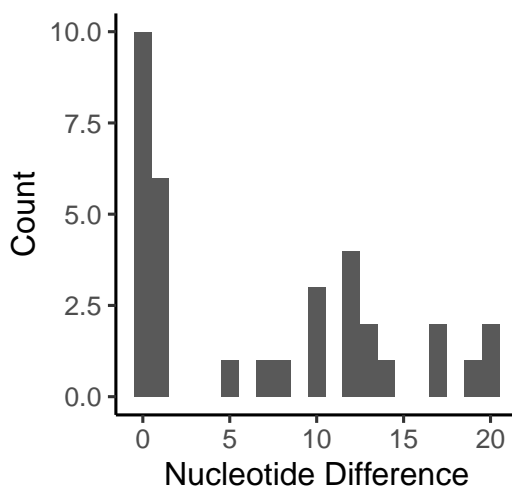
IGHV3-30-3*01

1763 sequences assigned
171 (9.7%) exact matches, in which:
170 unique CDR3
6 unique J



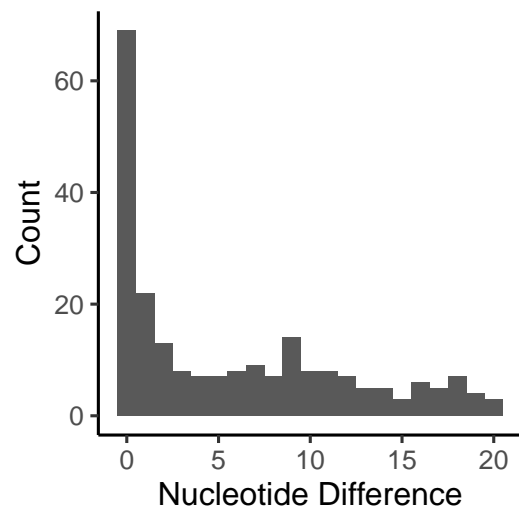
IGHV3-43*01

49 sequences assigned
10 (20.4%) exact matches, in which:
10 unique CDR3
3 unique J



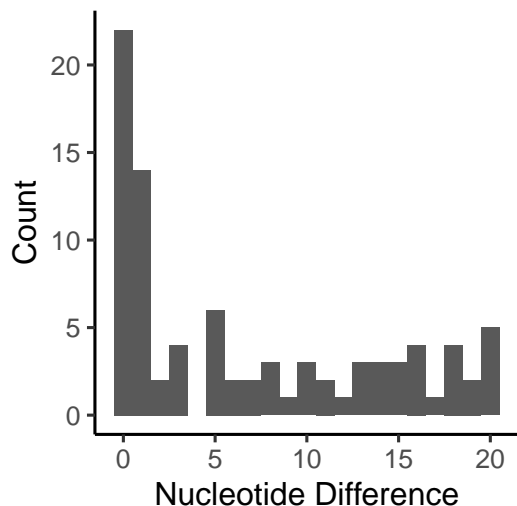
IGHV3-48*03

268 sequences assigned
69 (25.7%) exact matches, in which:
69 unique CDR3
5 unique J



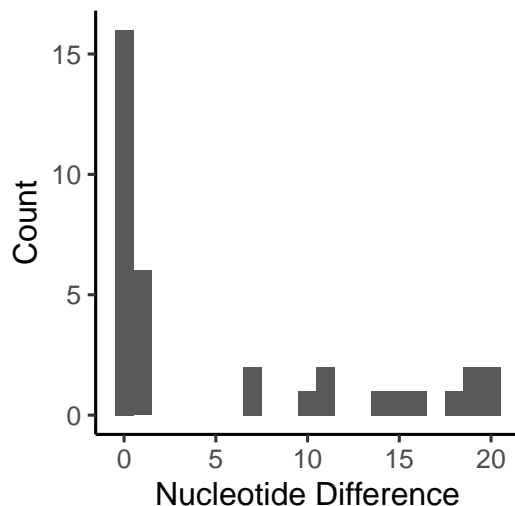
IGHV3-49*04

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



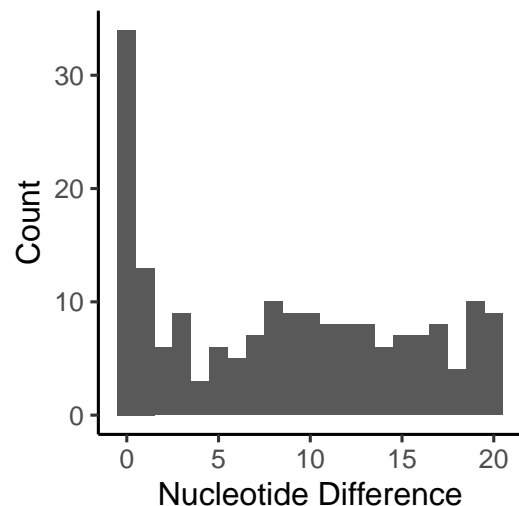
IGHV3-53*04

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



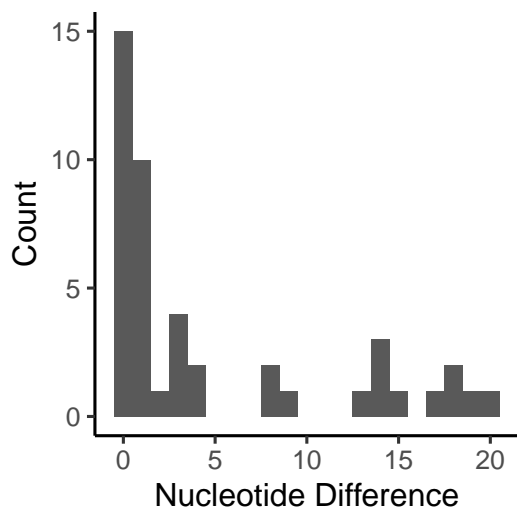
IGHV3-66*01

222 sequences assigned
34 (15.3%) exact matches, in which:
34 unique CDR3
4 unique J



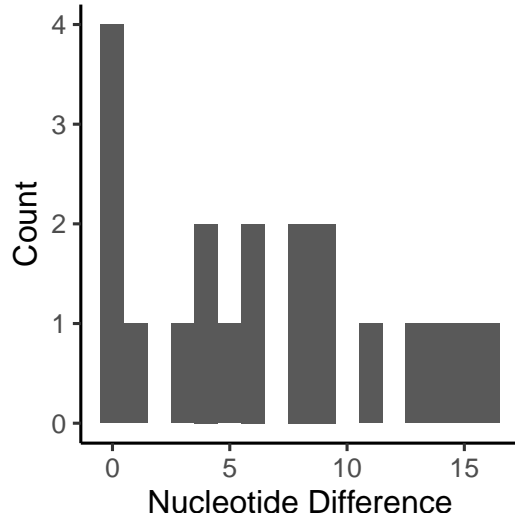
IGHV3-49*05

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



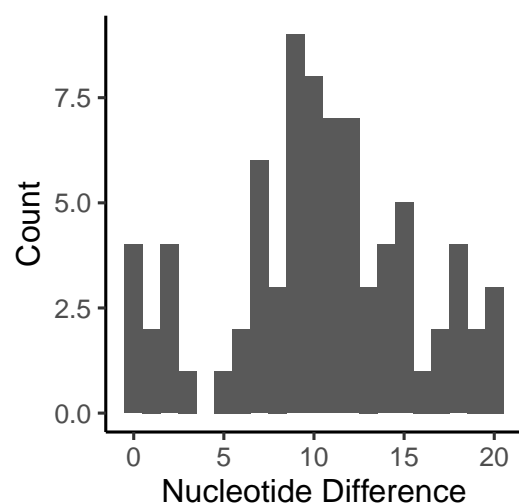
IGHV3-64*01

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



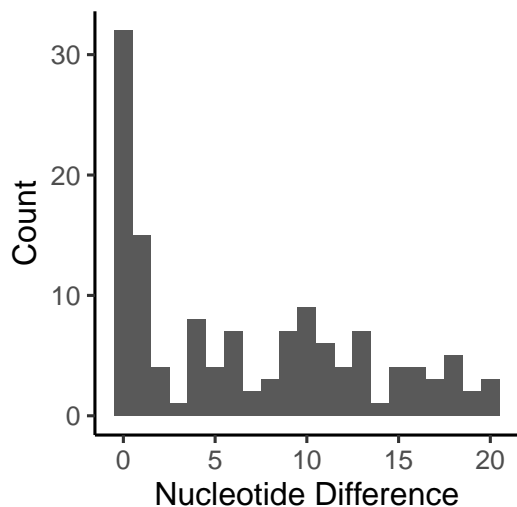
IGHV3-72*01

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



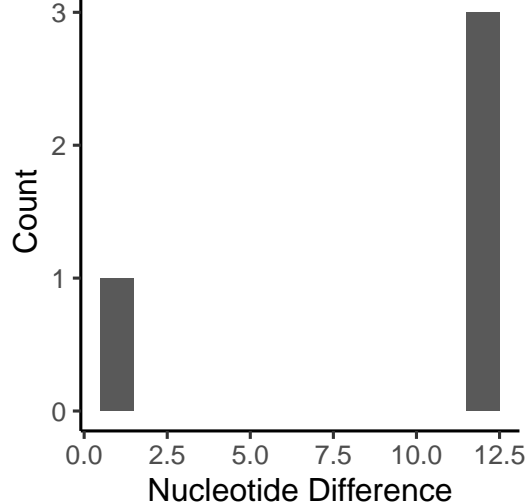
IGHV3-53*01

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



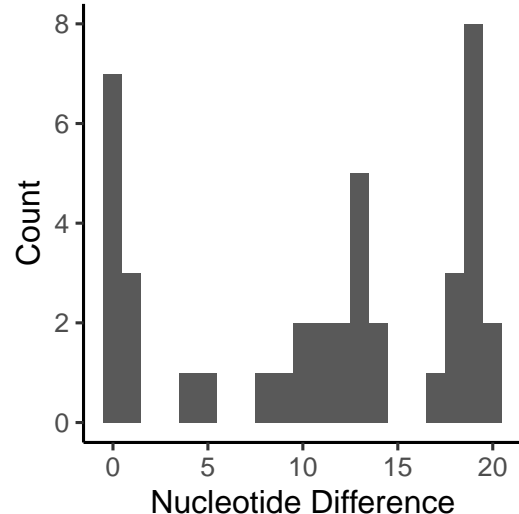
IGHV3-64*07

17 sequences assigned
No exact matches.



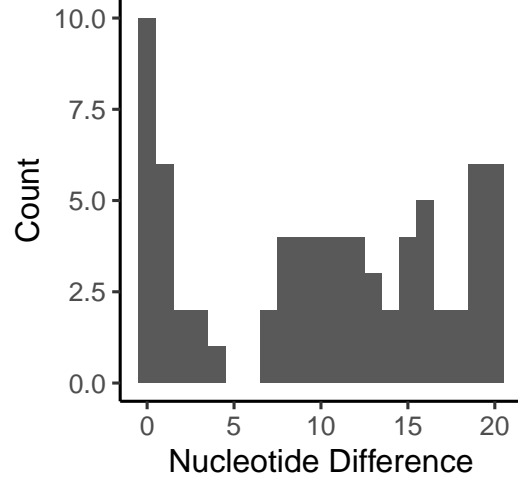
IGHV3-73*01

69 sequences assigned
7 (10.1%) exact matches, in which:
7 unique CDR3
3 unique J



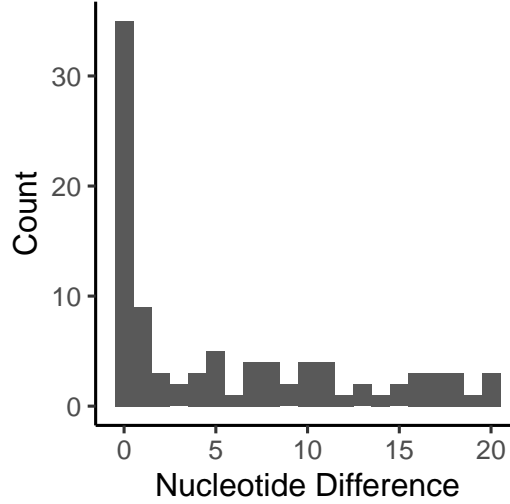
IGHV3-73*02

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



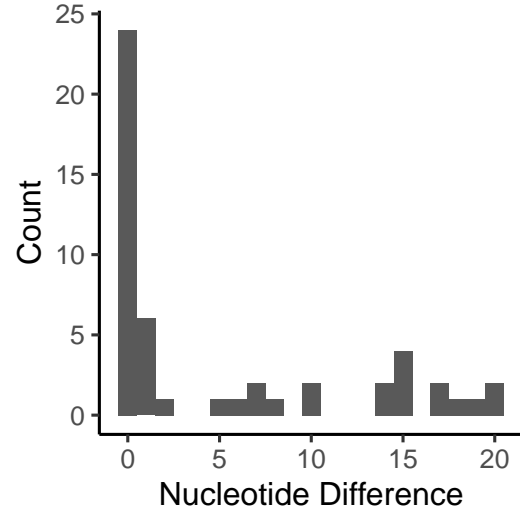
IGHV4-4*07

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



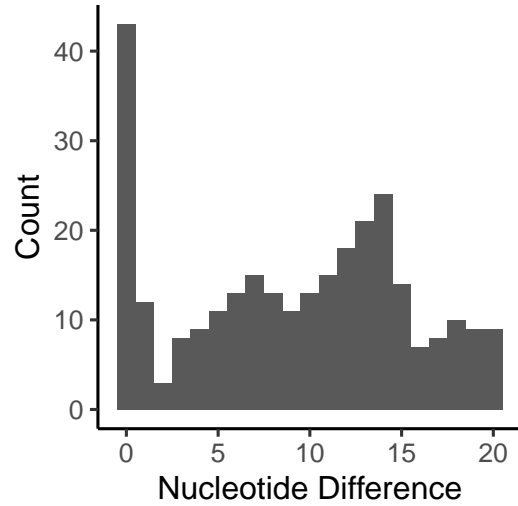
IGHV4-30-2*01

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



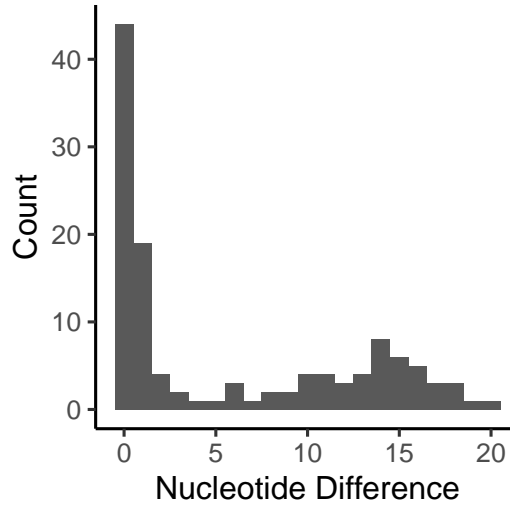
IGHV3-74*01

384 sequences assigned
43 (11.2%) exact matches, in which:
43 unique CDR3
7 unique J



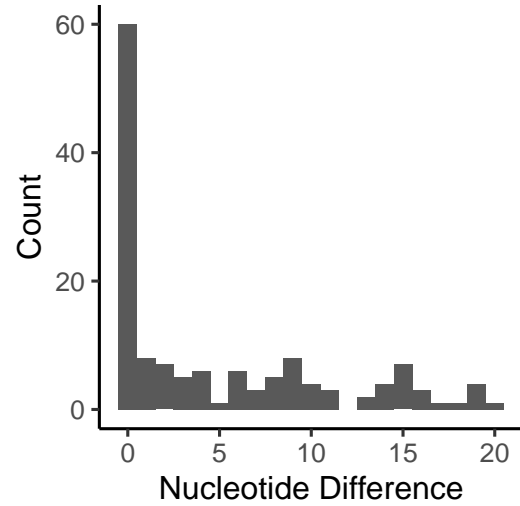
IGHV4-4*02_C20T

198 sequences assigned
44 (22.2%) exact matches, in which:
43 unique CDR3
4 unique J



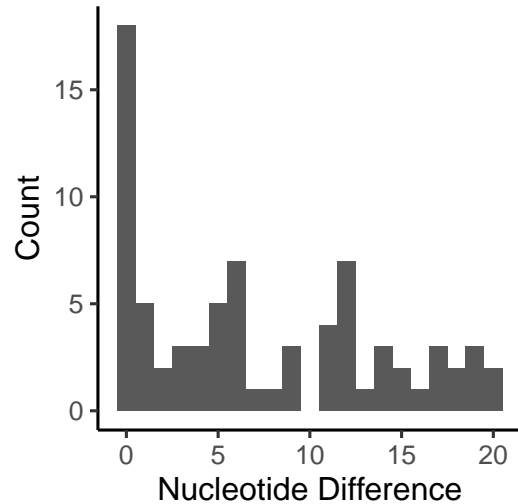
IGHV4-30-4*01

181 sequences assigned
60 (33.1%) exact matches, in which:
59 unique CDR3
5 unique J



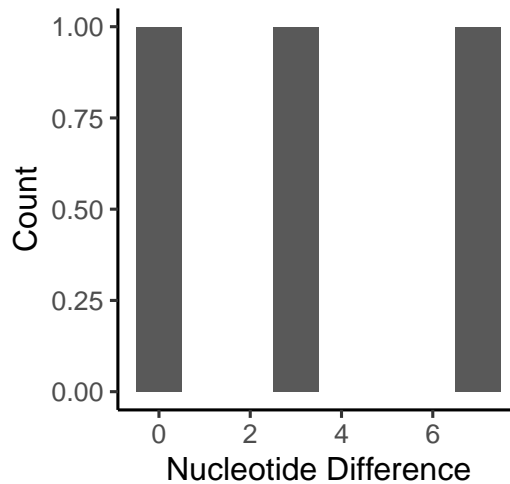
IGHV3-64D*06

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



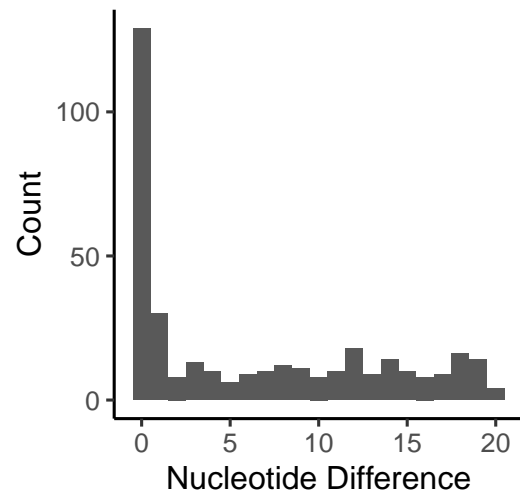
IGHV4-28*01

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



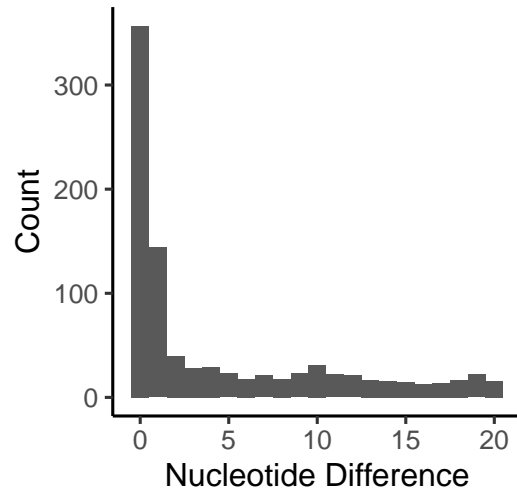
IGHV4-31*03

478 sequences assigned
129 (27%) exact matches, in which:
129 unique CDR3
7 unique J



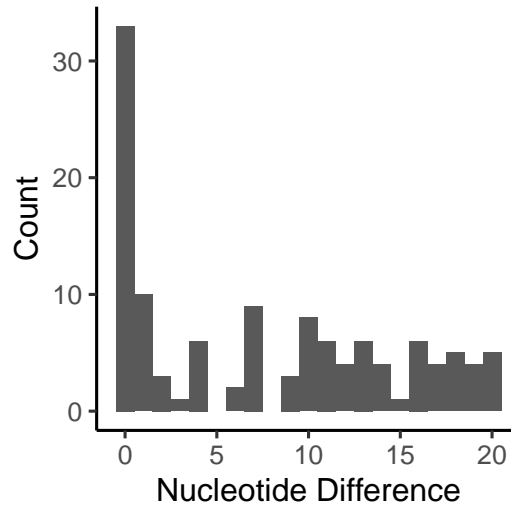
IGHV4–34*01

1213 sequences assigned
357 (29.4%) exact matches, in which:
355 unique CDR3
7 unique J



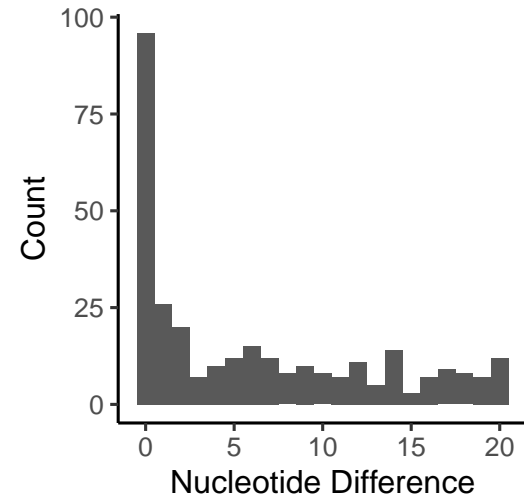
IGHV4–59*08

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



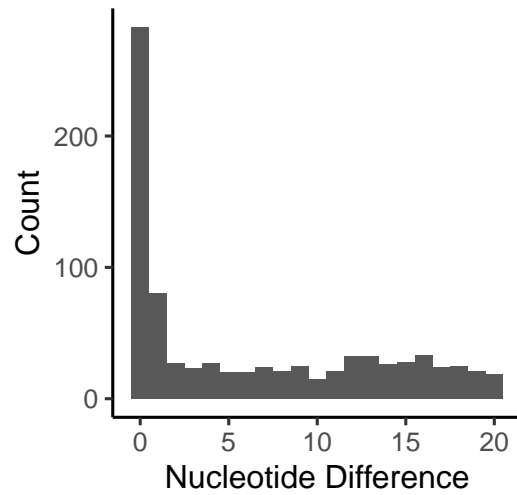
IGHV5–51*01

450 sequences assigned
96 (21.3%) exact matches, in which:
95 unique CDR3
6 unique J



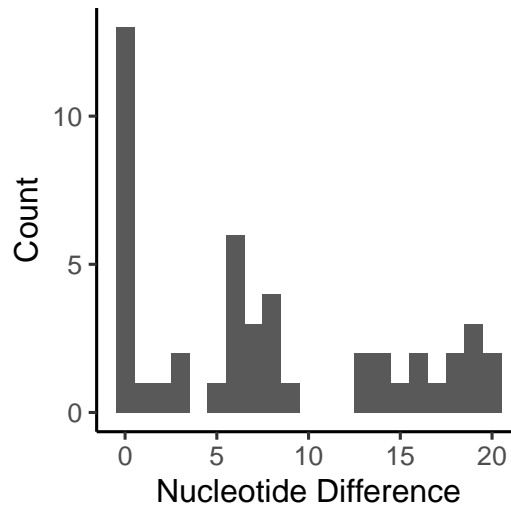
IGHV4–39*01

1207 sequences assigned
283 (23.4%) exact matches, in which:
283 unique CDR3
7 unique J



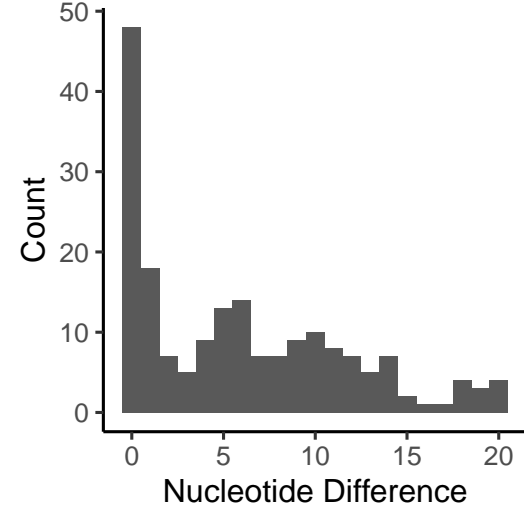
IGHV4–61*01

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



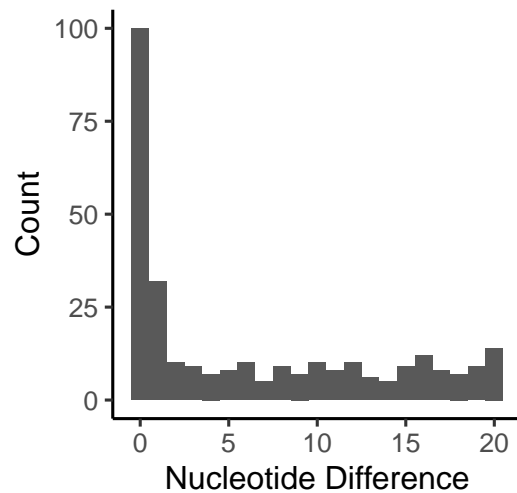
IGHV6–1*01

207 sequences assigned
48 (23.2%) exact matches, in which:
48 unique CDR3
7 unique J



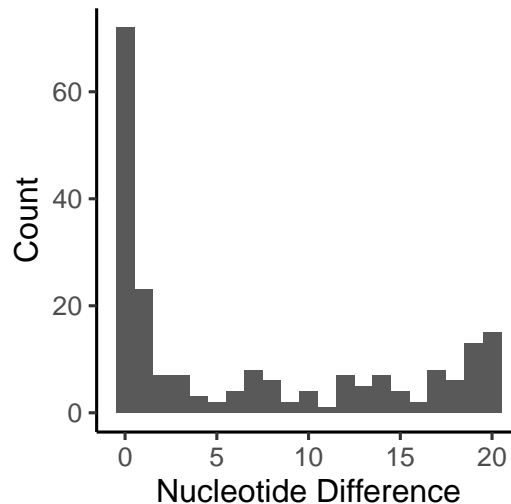
IGHV4–59*01

415 sequences assigned
100 (24.1%) exact matches, in which:
100 unique CDR3
7 unique J



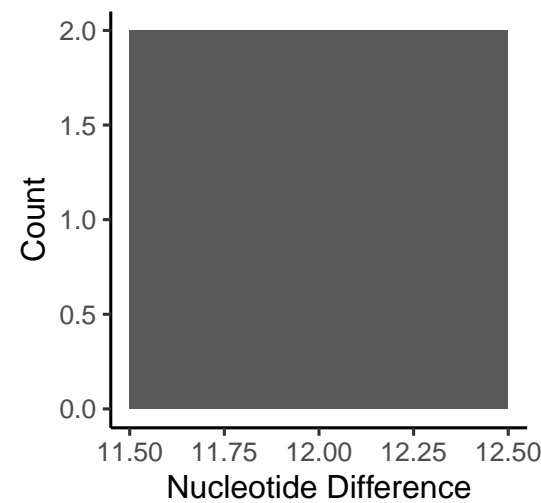
IGHV5–10–1*03

307 sequences assigned
72 (23.5%) exact matches, in which:
72 unique CDR3
5 unique J

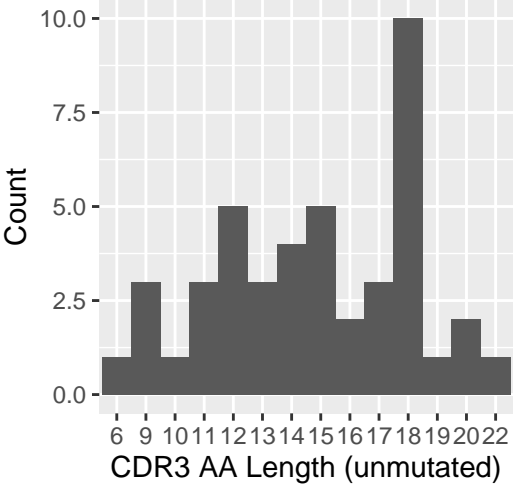


IGHV7–4–1*01

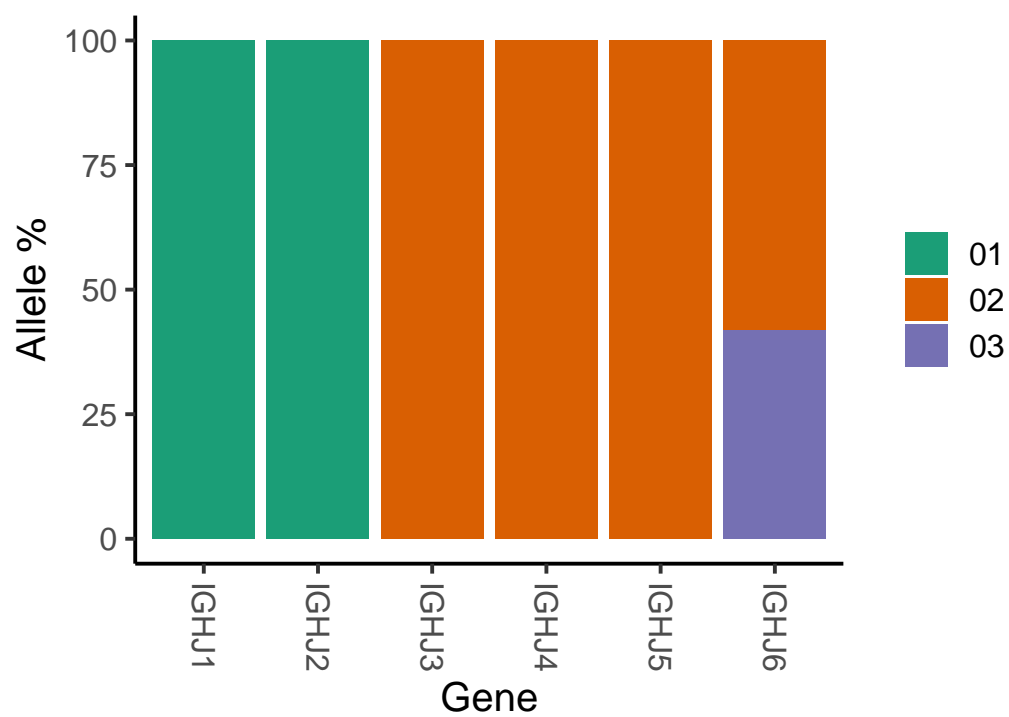
2 sequences assigned
No exact matches.



IGHV4-4*02_C20T



Allele Usage



Sequence Count by IGHJ6 allele usage

