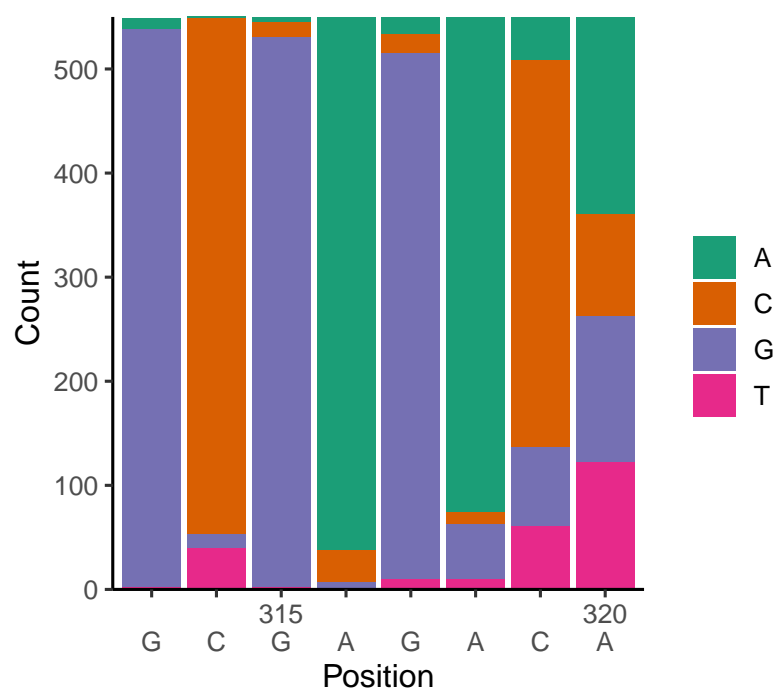
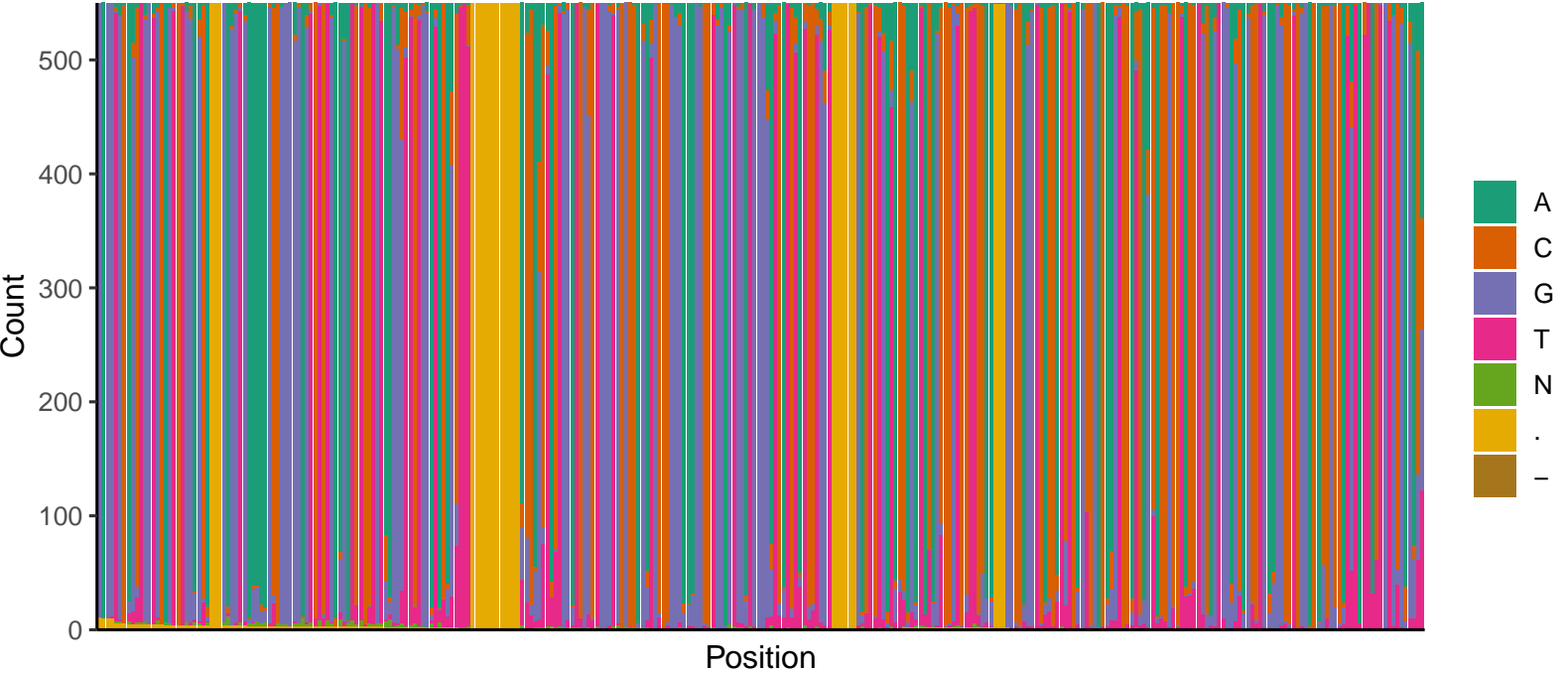


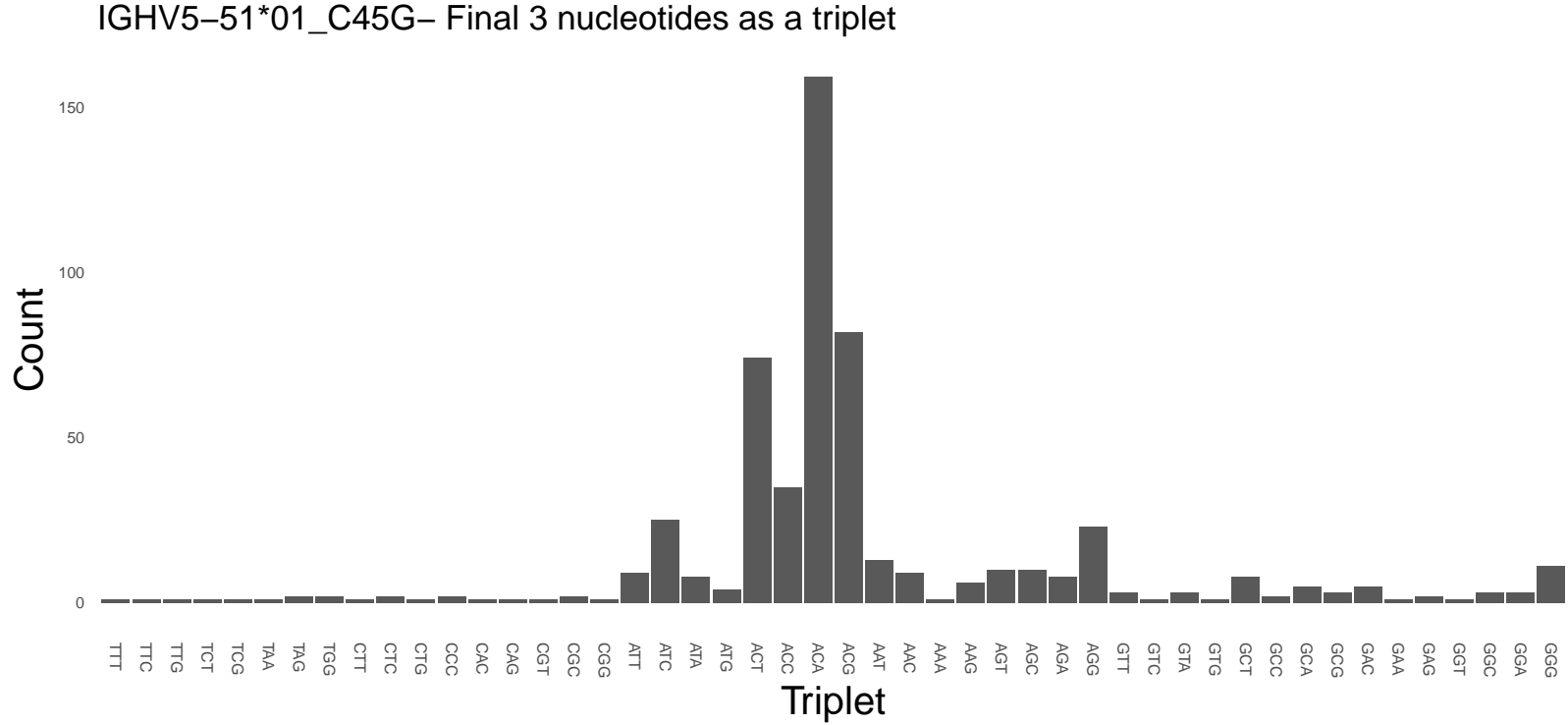
Gene IGHV5-51*01_C45G



Gene IGHV5-51*01_C45G

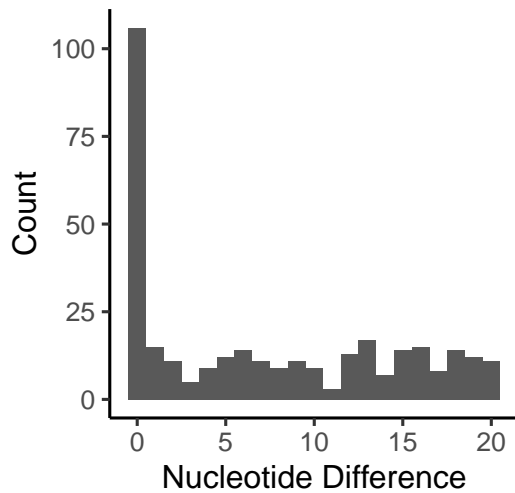


IGHV5–51*01_C45G– Final 3 nucleotides as a triplet



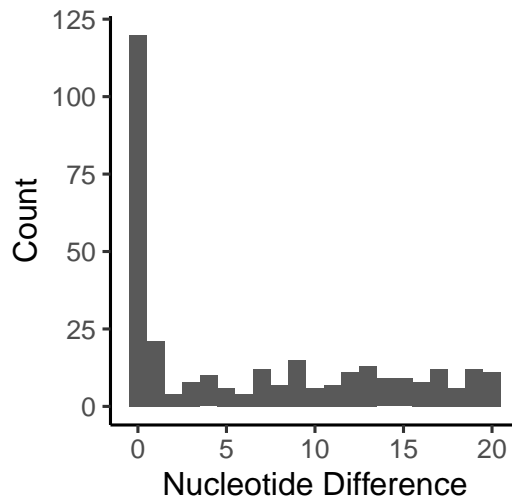
IGHV1–2*02

434 sequences assigned
106 (24.4%) exact matches, in which:
106 unique CDR3
6 unique J



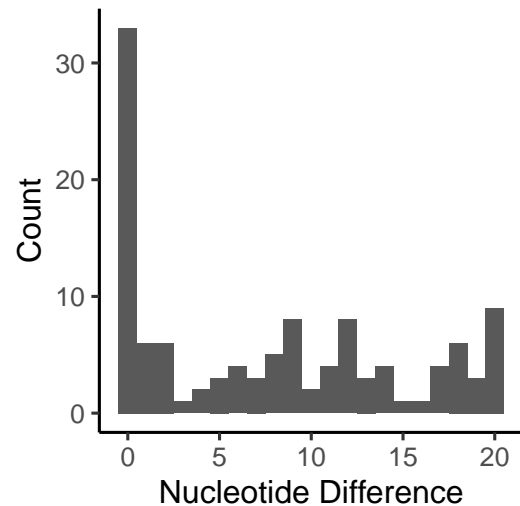
IGHV1–18*01

432 sequences assigned
120 (27.8%) exact matches, in which:
120 unique CDR3
6 unique J



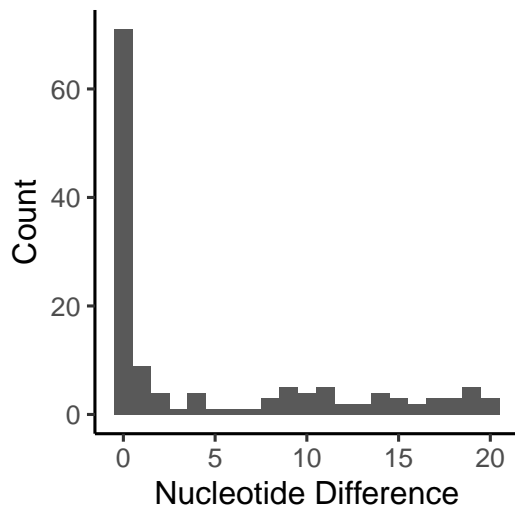
IGHV1–46*01

183 sequences assigned
33 (18%) exact matches, in which:
33 unique CDR3
5 unique J



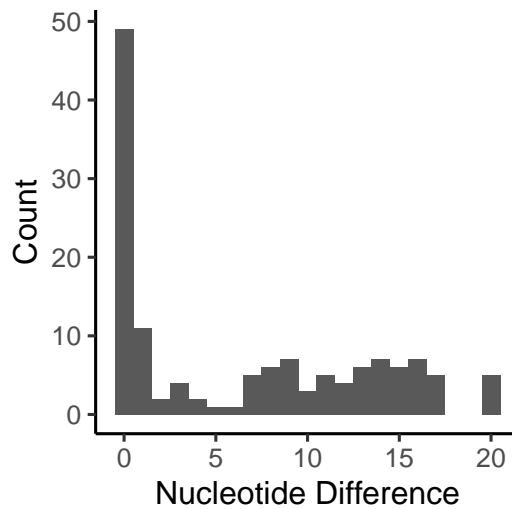
IGHV1–3*01

172 sequences assigned
71 (41.3%) exact matches, in which:
71 unique CDR3
5 unique J



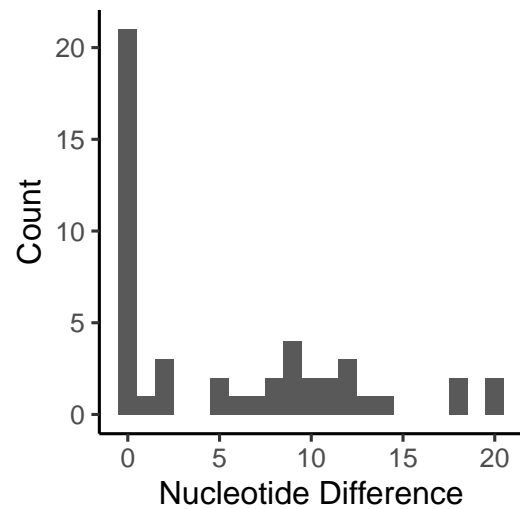
IGHV1–24*01

167 sequences assigned
49 (29.3%) exact matches, in which:
49 unique CDR3
5 unique J



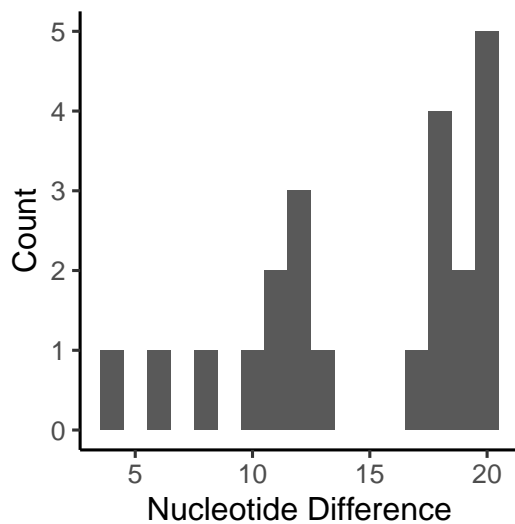
IGHV1–46*03

72 sequences assigned
21 (29.2%) exact matches, in which:
21 unique CDR3
4 unique J



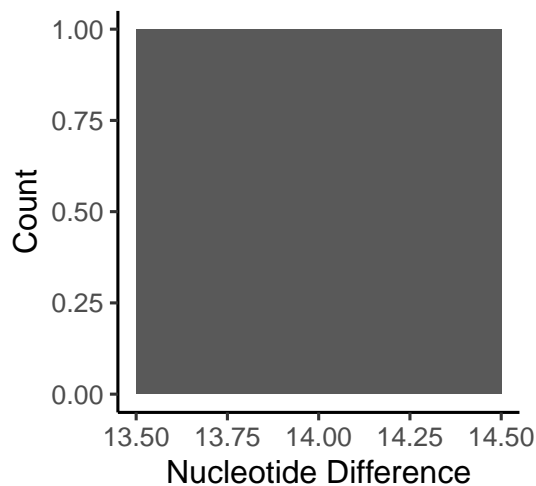
IGHV1–3*04

32 sequences assigned
No exact matches.



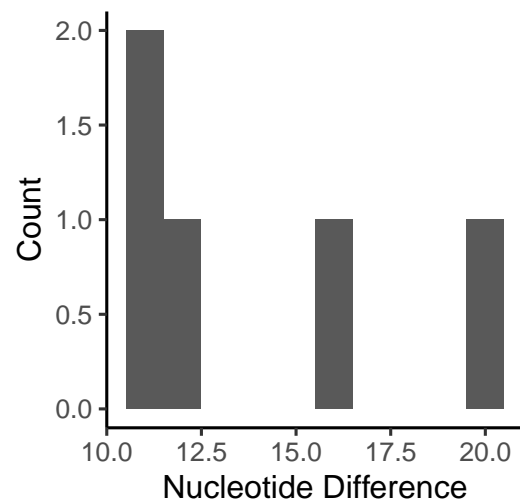
IGHV1–45*02

1 sequences assigned
No exact matches.



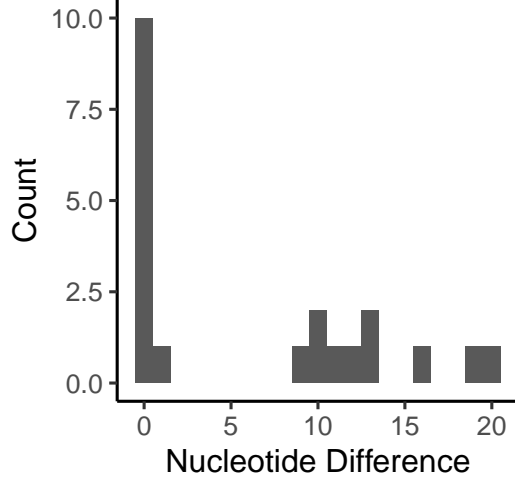
IGHV1–58*01

10 sequences assigned
No exact matches.



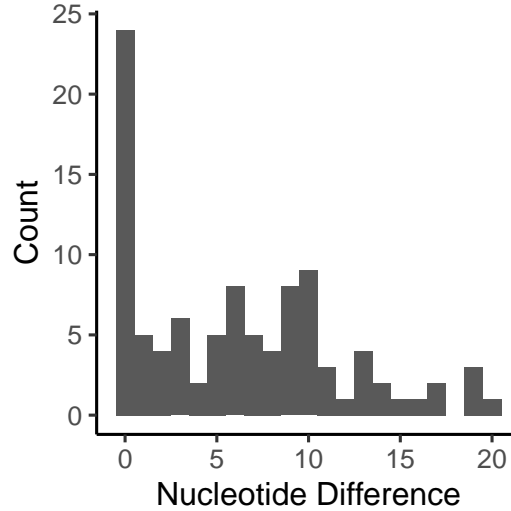
IGHV1-58*02

25 sequences assigned
10 (40%) exact matches, in which:
10 unique CDR3
3 unique J



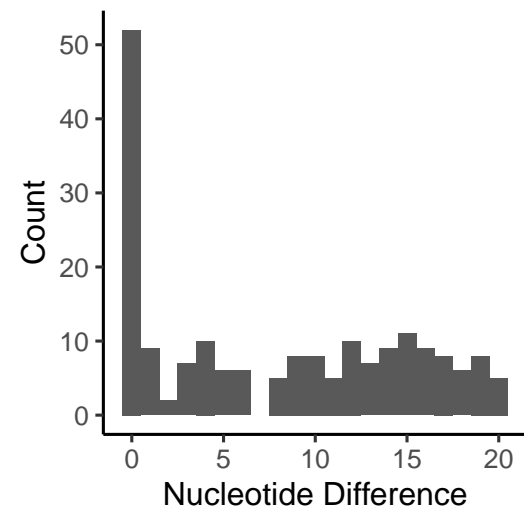
IGHV2-26*01

108 sequences assigned
24 (22.2%) exact matches, in which:
24 unique CDR3
5 unique J



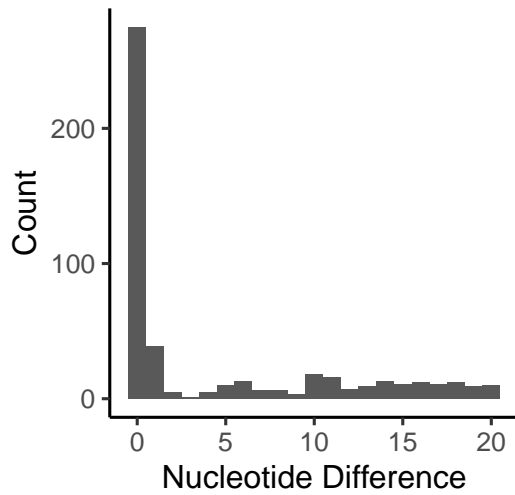
IGHV3-7*03

252 sequences assigned
52 (20.6%) exact matches, in which:
52 unique CDR3
6 unique J



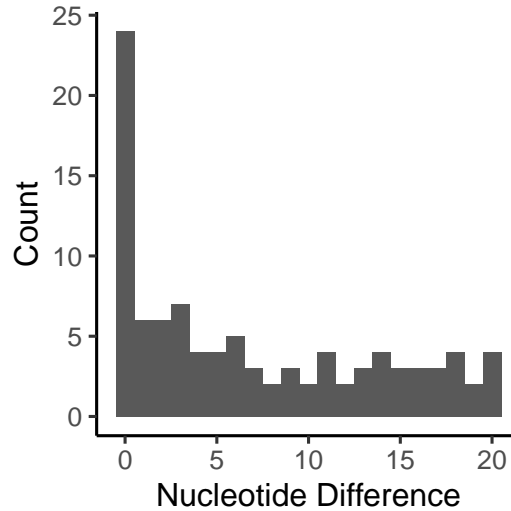
IGHV1-69*04

672 sequences assigned
275 (40.9%) exact matches, in which:
275 unique CDR3
6 unique J



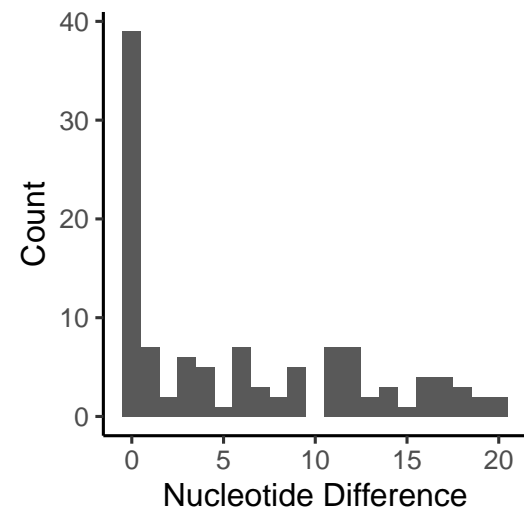
IGHV2-70*15

115 sequences assigned
24 (20.9%) exact matches, in which:
24 unique CDR3
4 unique J



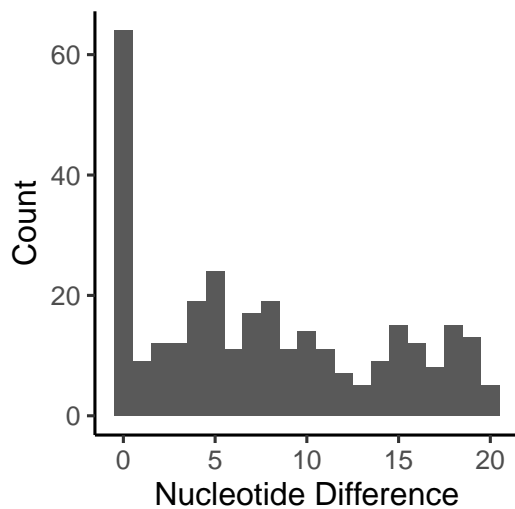
IGHV3-11*06

157 sequences assigned
39 (24.8%) exact matches, in which:
39 unique CDR3
5 unique J



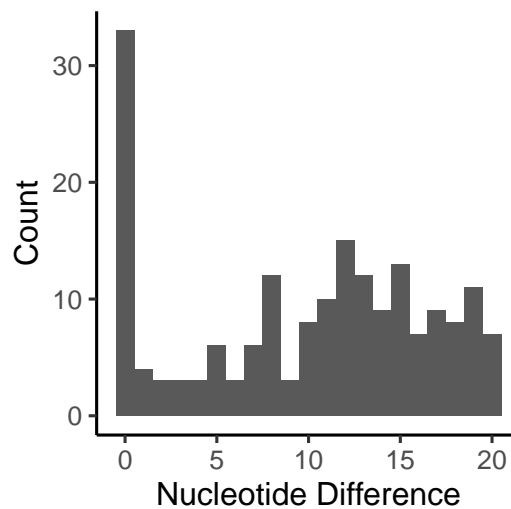
IGHV2-5*02

376 sequences assigned
64 (17%) exact matches, in which:
64 unique CDR3
5 unique J



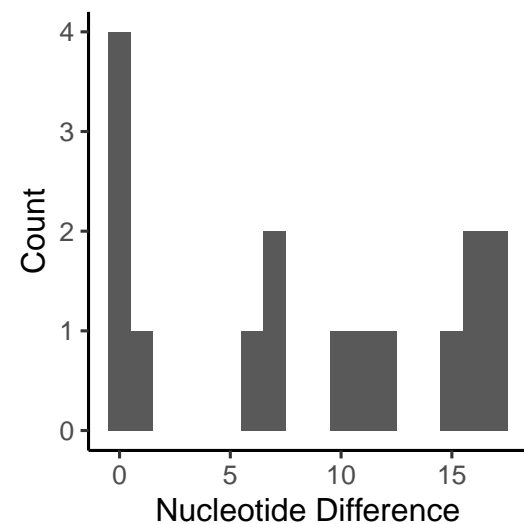
IGHV3-7*01

239 sequences assigned
33 (13.8%) exact matches, in which:
33 unique CDR3
5 unique J



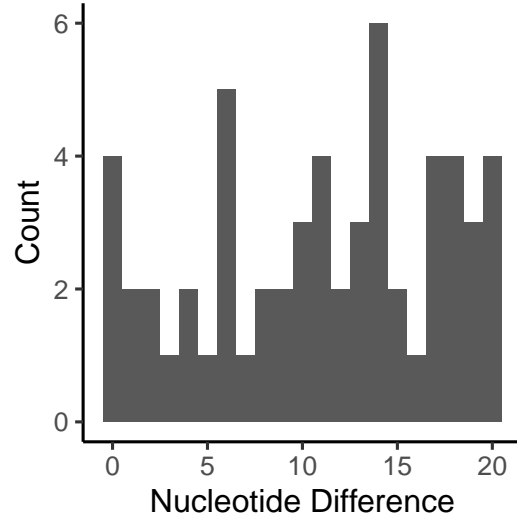
IGHV3-13*05

18 sequences assigned
4 (22.2%) exact matches, in which:
4 unique CDR3
3 unique J



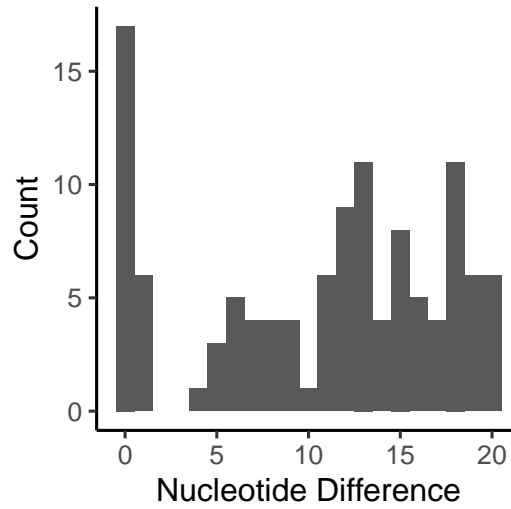
IGHV3-15*01

116 sequences assigned
4 (3.4%) exact matches, in which:
4 unique CDR3
1 unique J



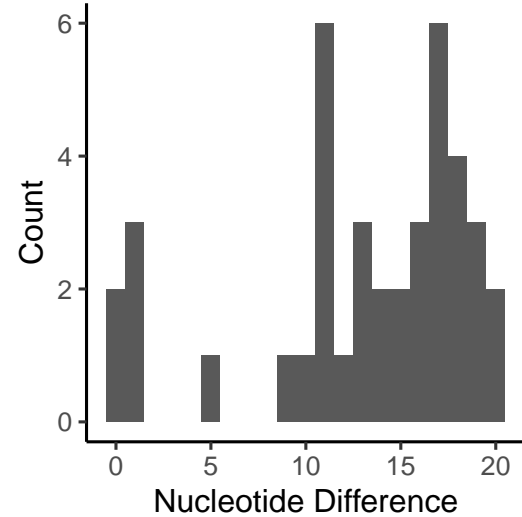
IGHV3-33*01

211 sequences assigned
17 (8.1%) exact matches, in which:
17 unique CDR3
4 unique J



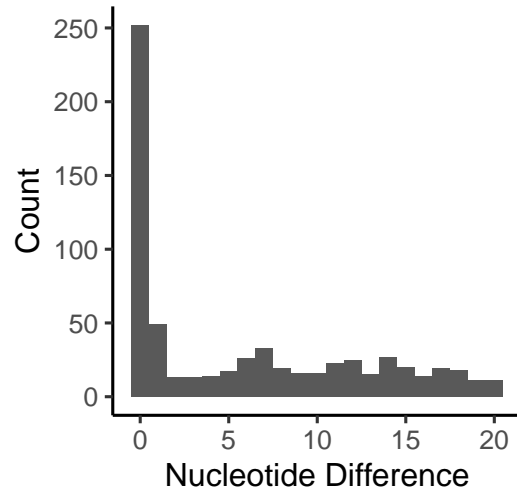
IGHV3-49*03

85 sequences assigned
2 (2.4%) exact matches, in which:
2 unique CDR3
2 unique J



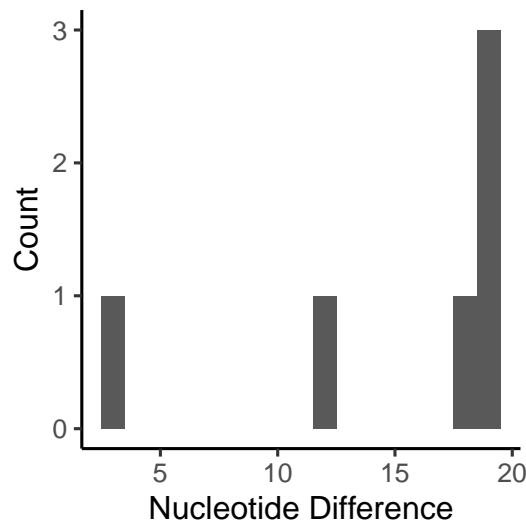
IGHV3-21*01

733 sequences assigned
252 (34.4%) exact matches, in which:
250 unique CDR3
6 unique J



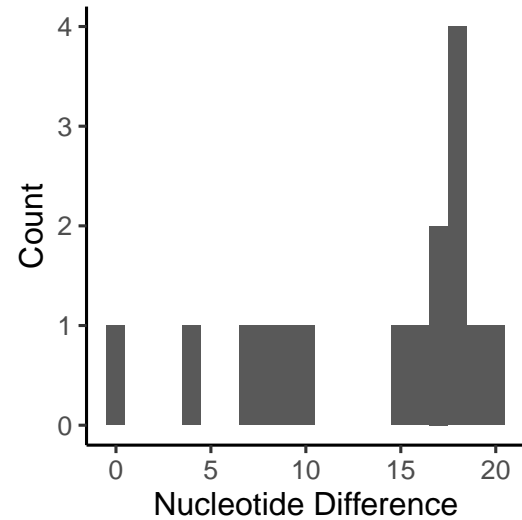
IGHV3-43*01

15 sequences assigned
No exact matches.



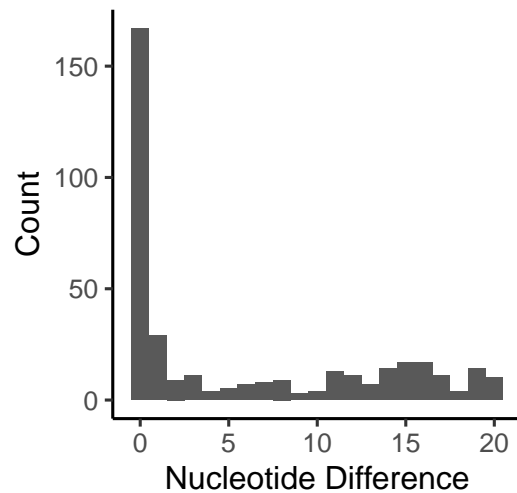
IGHV3-53*02

32 sequences assigned
1 (3.1%) exact matches, in which:
1 unique CDR3
1 unique J



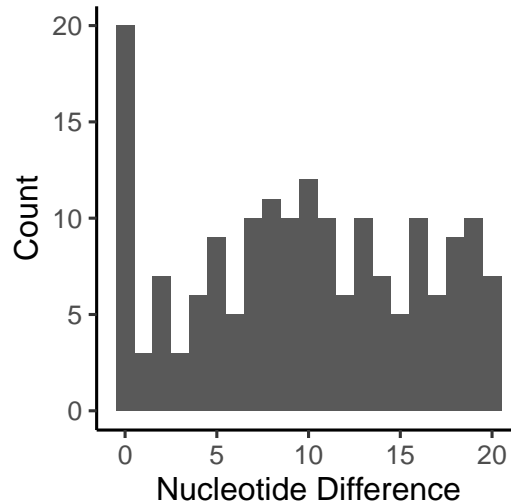
IGHV3-30-3*01

545 sequences assigned
167 (30.6%) exact matches, in which:
166 unique CDR3
6 unique J



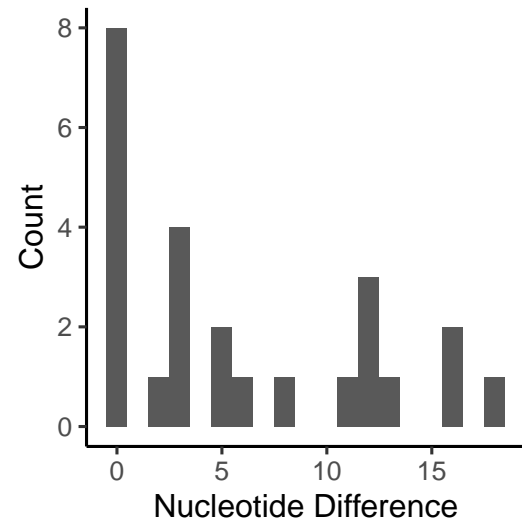
IGHV3-48*01

248 sequences assigned
20 (8.1%) exact matches, in which:
20 unique CDR3
4 unique J



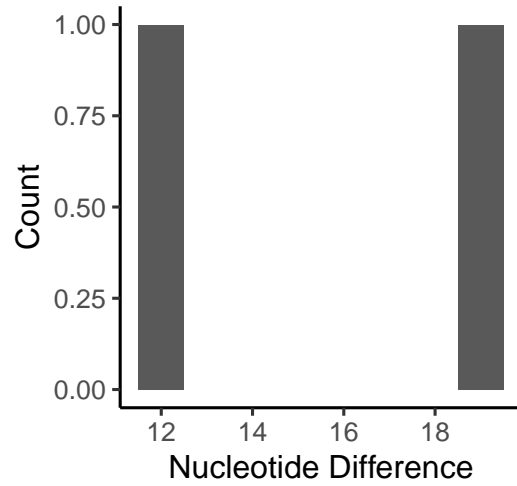
IGHV3-64*01

38 sequences assigned
8 (21.1%) exact matches, in which:
8 unique CDR3
5 unique J



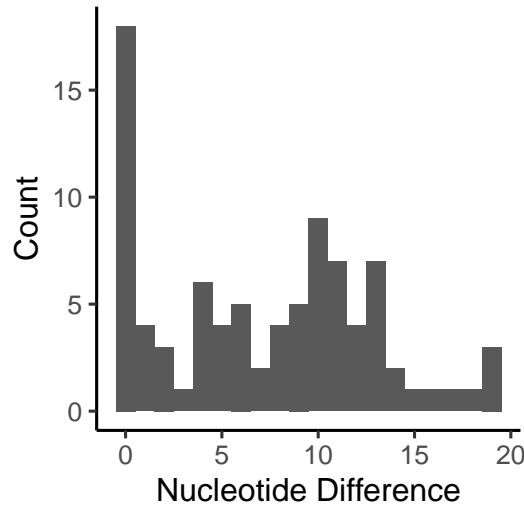
IGHV3-64*07

8 sequences assigned
No exact matches.



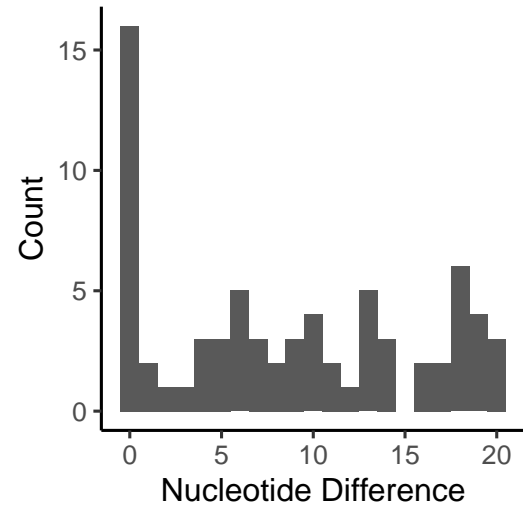
IGHV3-73*01

94 sequences assigned
18 (19.1%) exact matches, in which:
18 unique CDR3
5 unique J



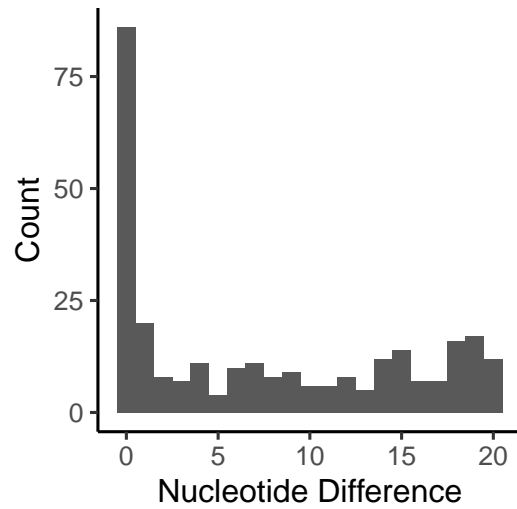
IGHV4-4*02

98 sequences assigned
16 (16.3%) exact matches, in which:
16 unique CDR3
5 unique J



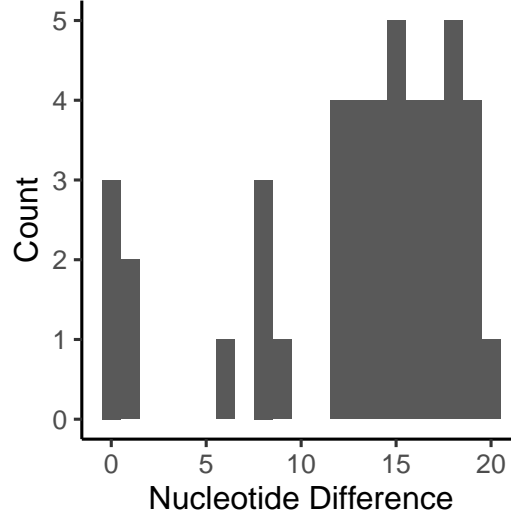
IGHV3-66*01

355 sequences assigned
86 (24.2%) exact matches, in which:
86 unique CDR3
5 unique J



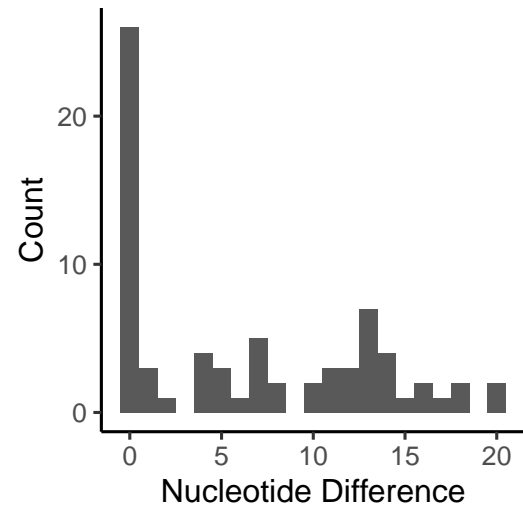
IGHV3-74*01

85 sequences assigned
3 (3.5%) exact matches, in which:
3 unique CDR3
2 unique J



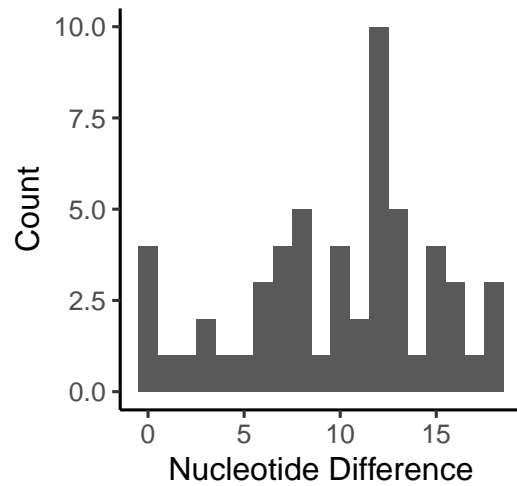
IGHV4-4*07

103 sequences assigned
26 (25.2%) exact matches, in which:
26 unique CDR3
4 unique J



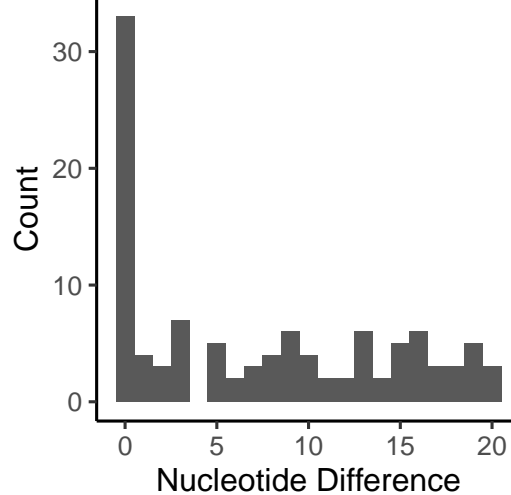
IGHV3-72*01

64 sequences assigned
4 (6.2%) exact matches, in which:
4 unique CDR3
2 unique J



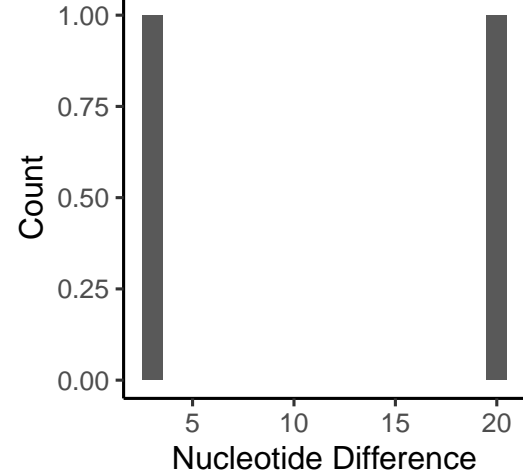
IGHV3-64D*06

138 sequences assigned
33 (23.9%) exact matches, in which:
33 unique CDR3
3 unique J



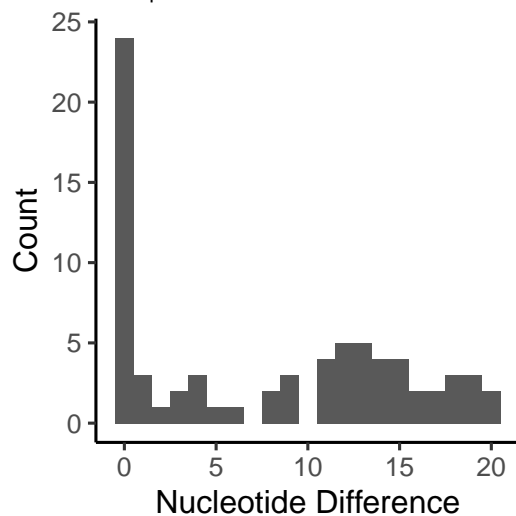
IGHV4-28*01

2 sequences assigned
No exact matches.



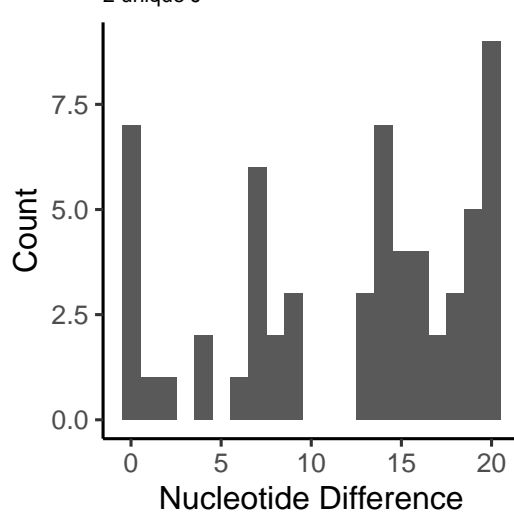
IGHV4-30-2*01

103 sequences assigned
24 (23.3%) exact matches, in which:
24 unique CDR3
4 unique J



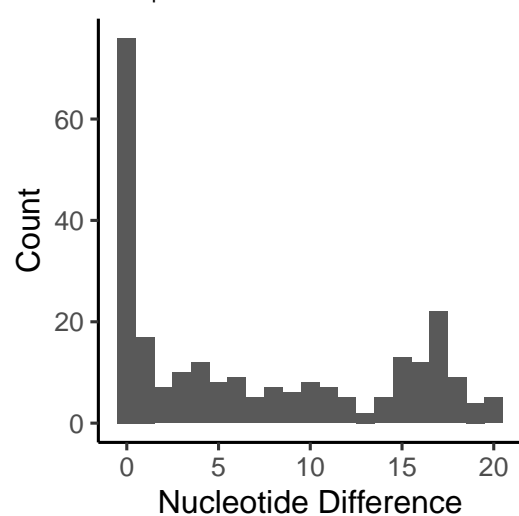
IGHV4-34*01

147 sequences assigned
7 (4.8%) exact matches, in which:
7 unique CDR3
2 unique J



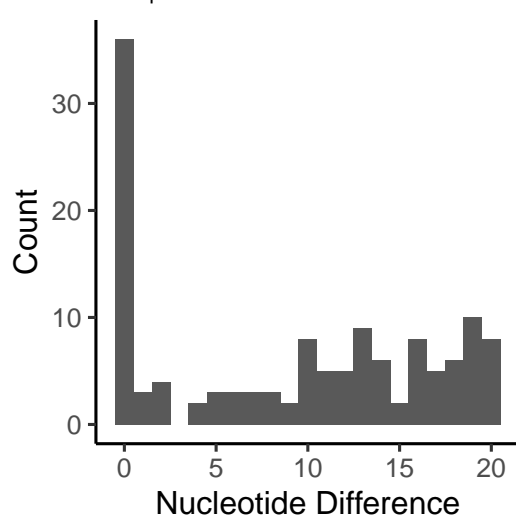
IGHV4-59*01

302 sequences assigned
76 (25.2%) exact matches, in which:
76 unique CDR3
5 unique J



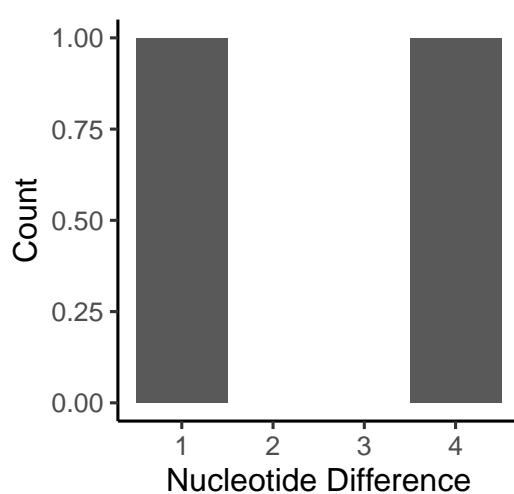
IGHV4-30-4*01

170 sequences assigned
36 (21.2%) exact matches, in which:
36 unique CDR3
4 unique J



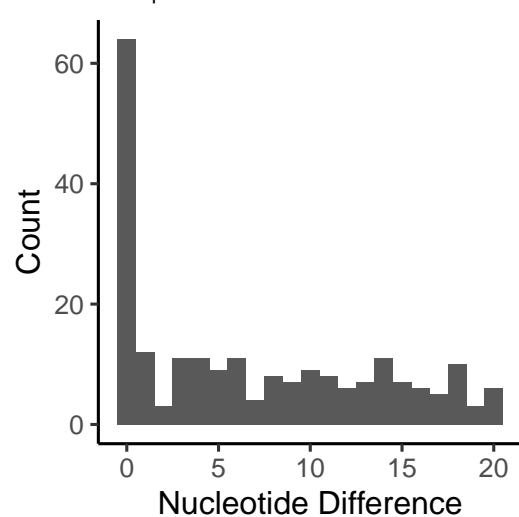
IGHV4-38-2*02

2 sequences assigned
No exact matches.



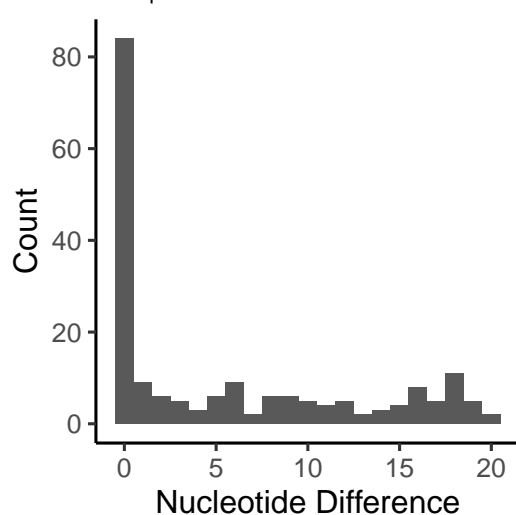
IGHV4-59*08

282 sequences assigned
64 (22.7%) exact matches, in which:
64 unique CDR3
5 unique J



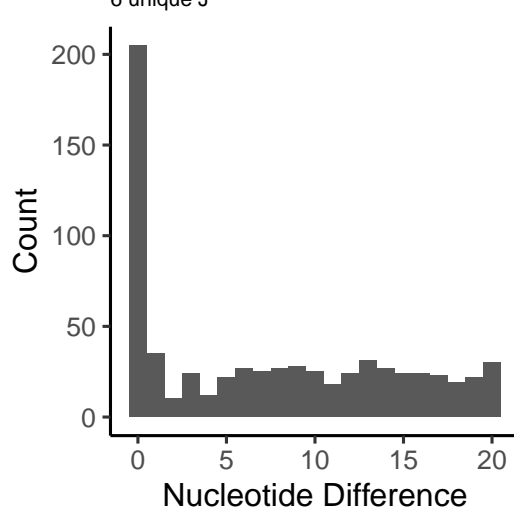
IGHV4-31*03

289 sequences assigned
84 (29.1%) exact matches, in which:
82 unique CDR3
5 unique J



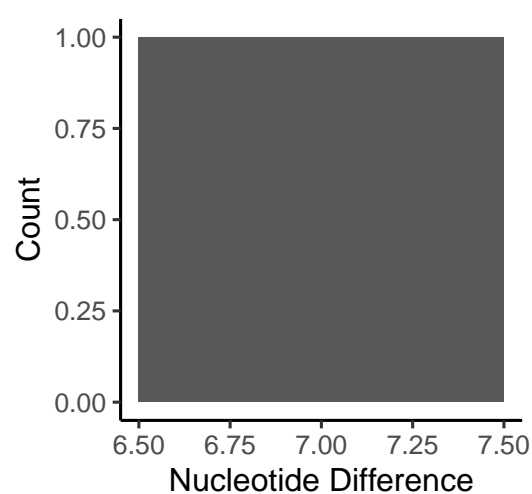
IGHV4-39*01

995 sequences assigned
205 (20.6%) exact matches, in which:
202 unique CDR3
6 unique J



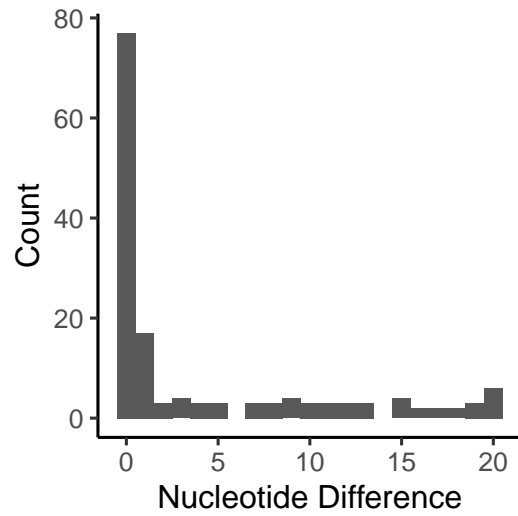
IGHV4-61*03

1 sequences assigned
No exact matches.



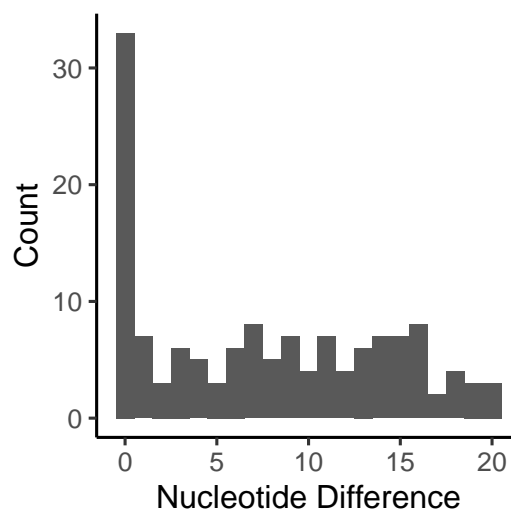
IGHV5-10-1*03

208 sequences assigned
77 (37%) exact matches, in which:
76 unique CDR3
5 unique J



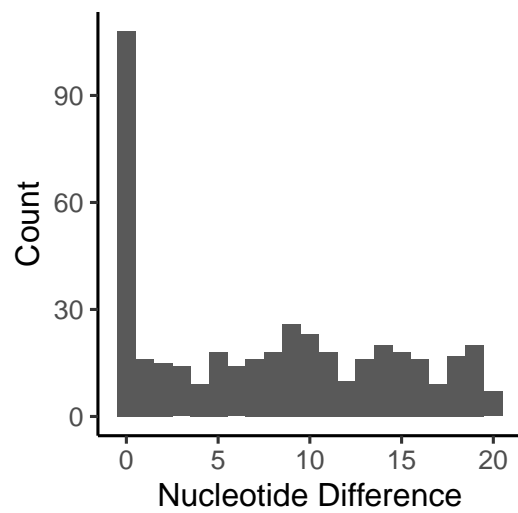
IGHV7-4-1*02

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



IGHV5-51*01_C45G

550 sequences assigned
108 (19.6%) exact matches, in which:
108 unique CDR3
6 unique J



IGHV6-1*01

172 sequences assigned
30 (17.4%) exact matches, in which:
30 unique CDR3
5 unique J

