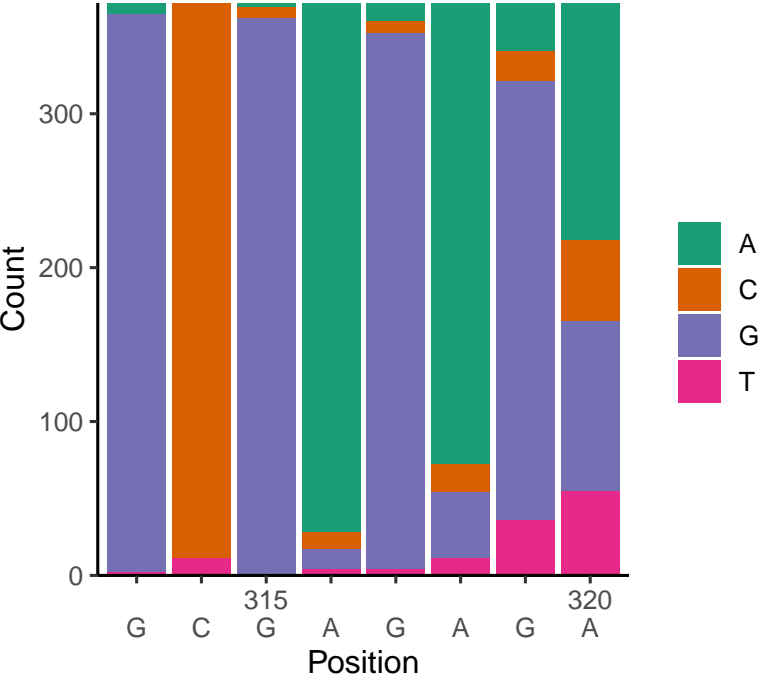


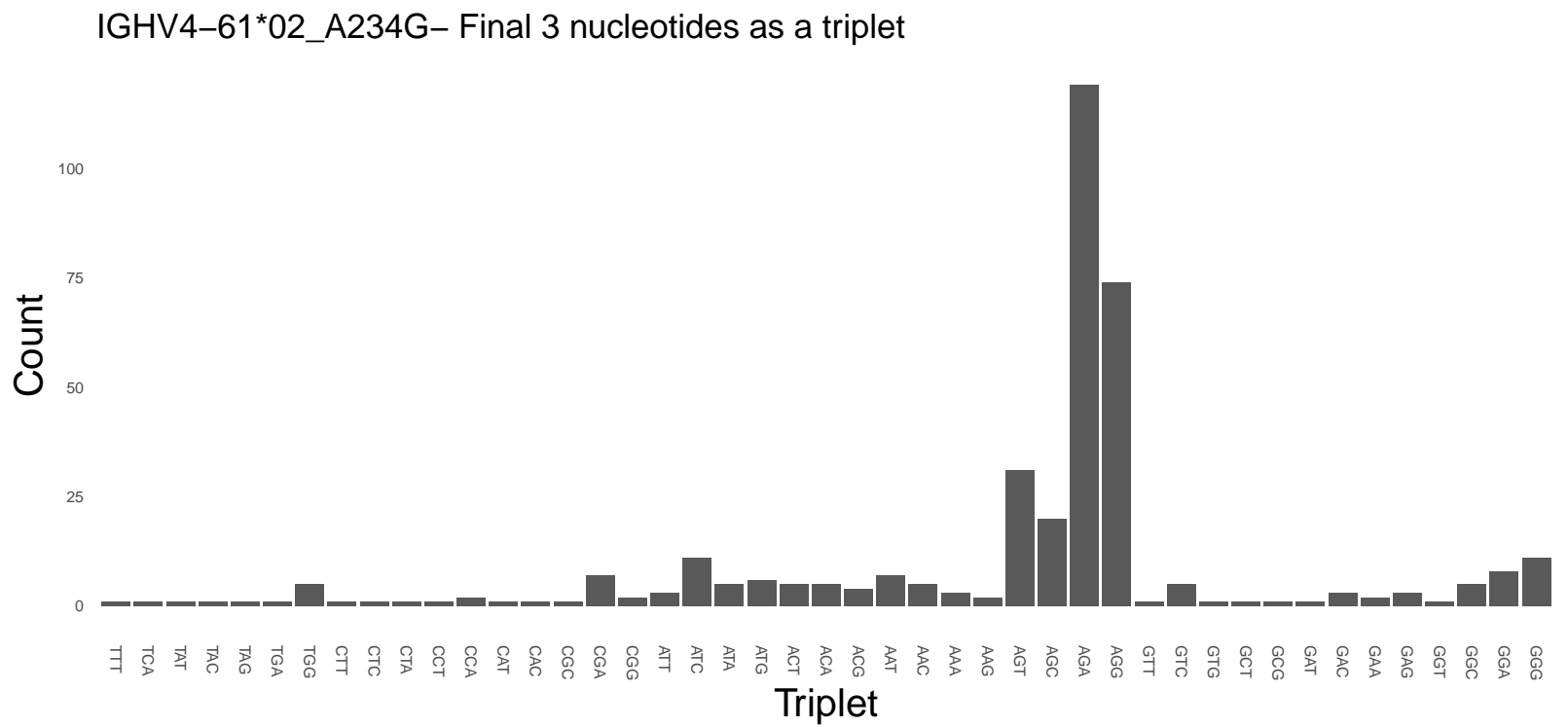
Gene IGHV4-61*02_A234G



Gene IGHV4-61*02_A234G

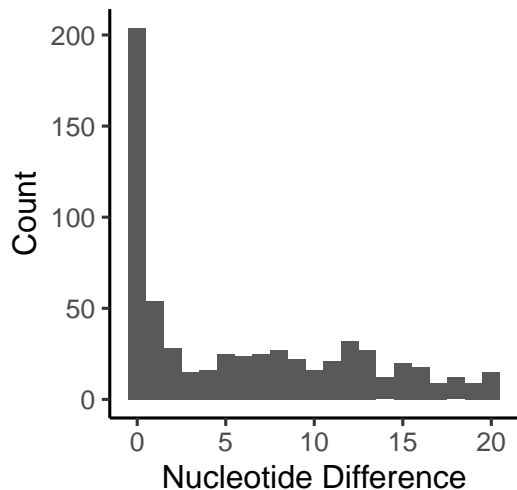


IGHV4-61*02_A234G- Final 3 nucleotides as a triplet



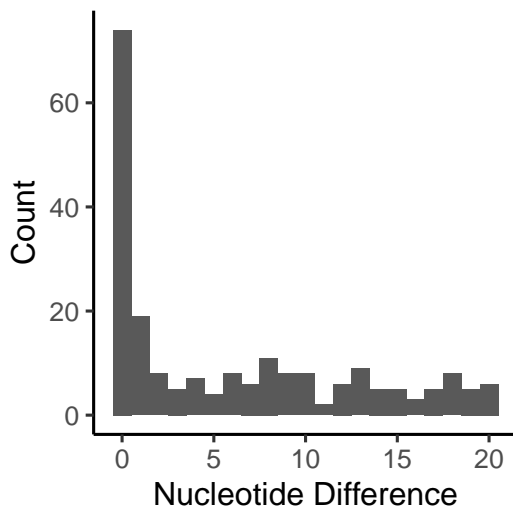
IGHV1-2*02

713 sequences assigned
204 (28.6%) exact matches, in which:
200 unique CDR3
6 unique J



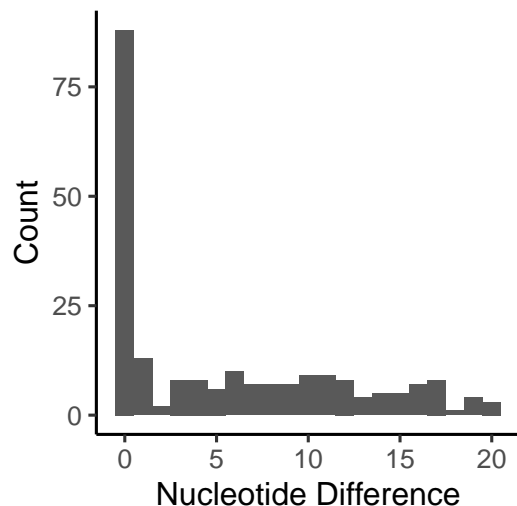
IGHV1-18*01

238 sequences assigned
74 (31.1%) exact matches, in which:
72 unique CDR3
5 unique J



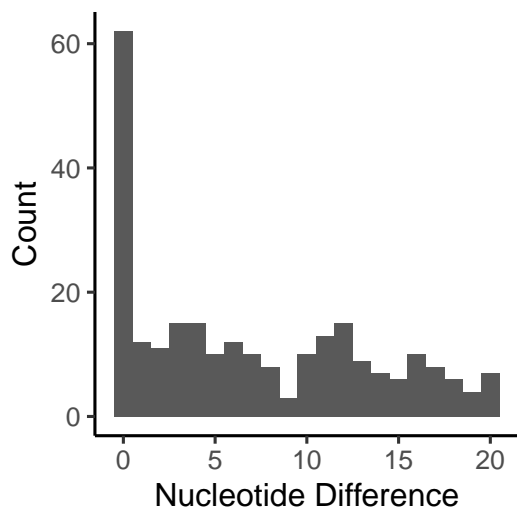
IGHV1-46*03

240 sequences assigned
88 (36.7%) exact matches, in which:
88 unique CDR3
7 unique J



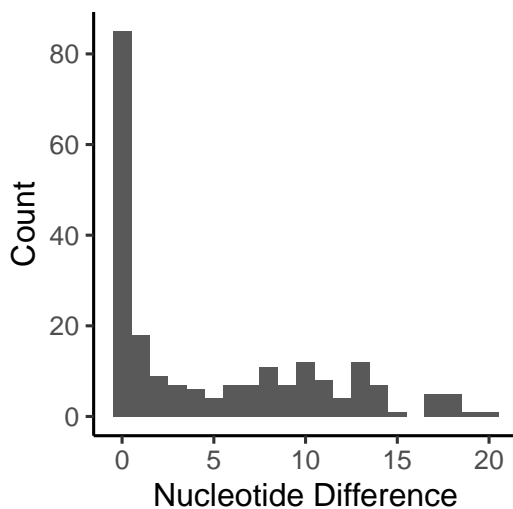
IGHV1-3*01

298 sequences assigned
62 (20.8%) exact matches, in which:
62 unique CDR3
4 unique J



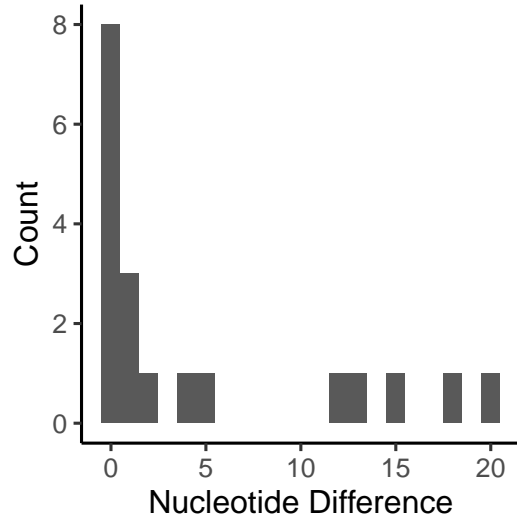
IGHV1-18*04

241 sequences assigned
85 (35.3%) exact matches, in which:
85 unique CDR3
6 unique J



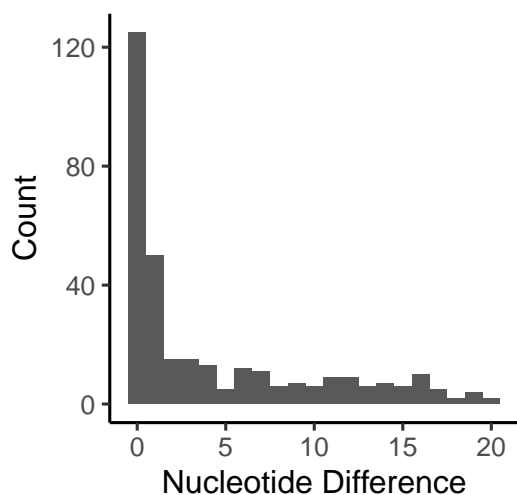
IGHV1-58*02

27 sequences assigned
8 (29.6%) exact matches, in which:
8 unique CDR3
3 unique J



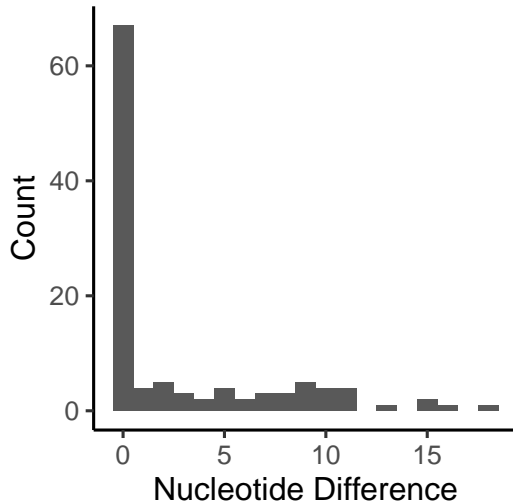
IGHV1-8*01

350 sequences assigned
125 (35.7%) exact matches, in which:
121 unique CDR3
6 unique J



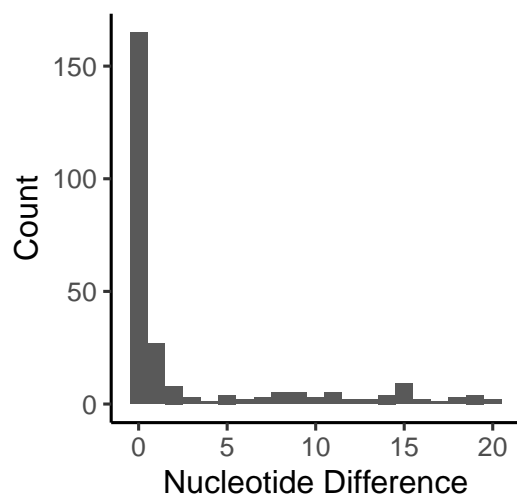
IGHV1-24*01

122 sequences assigned
67 (54.9%) exact matches, in which:
66 unique CDR3
6 unique J



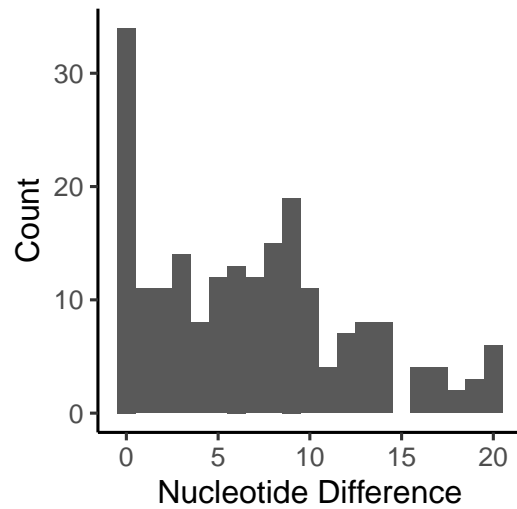
IGHV1-69*04

313 sequences assigned
165 (52.7%) exact matches, in which:
162 unique CDR3
6 unique J



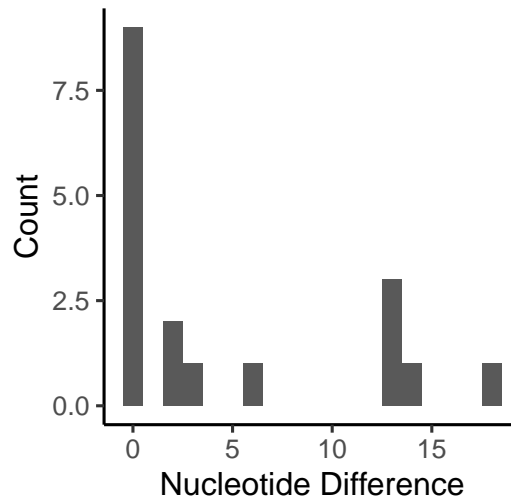
IGHV2-5*01

226 sequences assigned
34 (15%) exact matches, in which:
34 unique CDR3
4 unique J



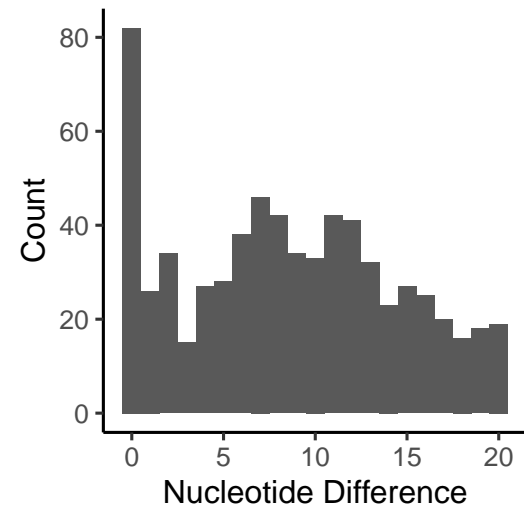
IGHV2-70*01

25 sequences assigned
9 (36%) exact matches, in which:
9 unique CDR3
4 unique J



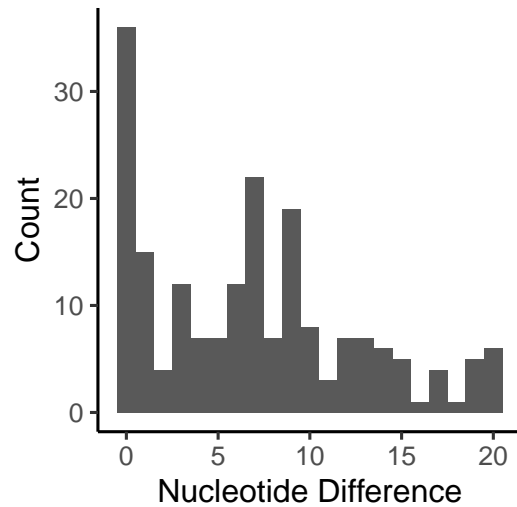
IGHV3-7*03

774 sequences assigned
82 (10.6%) exact matches, in which:
81 unique CDR3
6 unique J



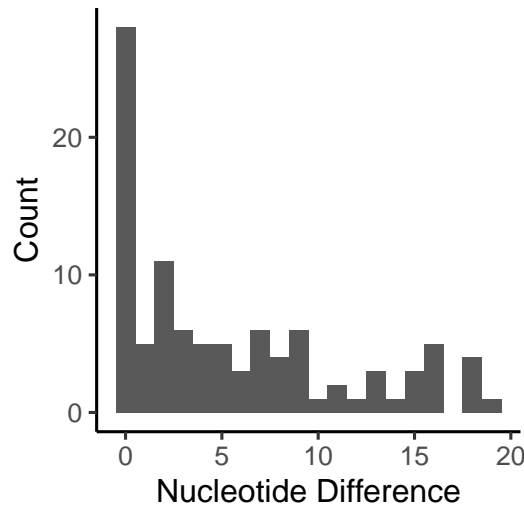
IGHV2-5*02

229 sequences assigned
36 (15.7%) exact matches, in which:
36 unique CDR3
5 unique J



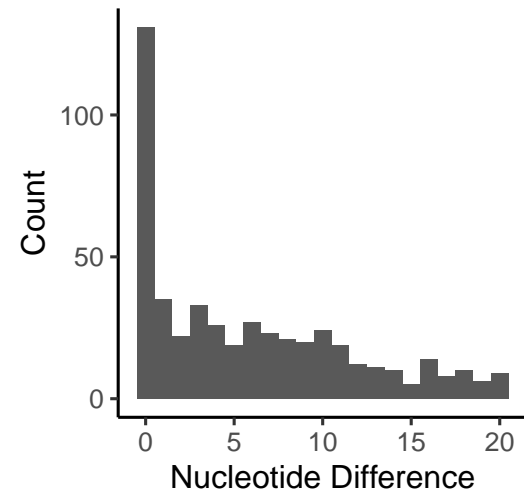
IGHV2-70*15

111 sequences assigned
28 (25.2%) exact matches, in which:
27 unique CDR3
5 unique J



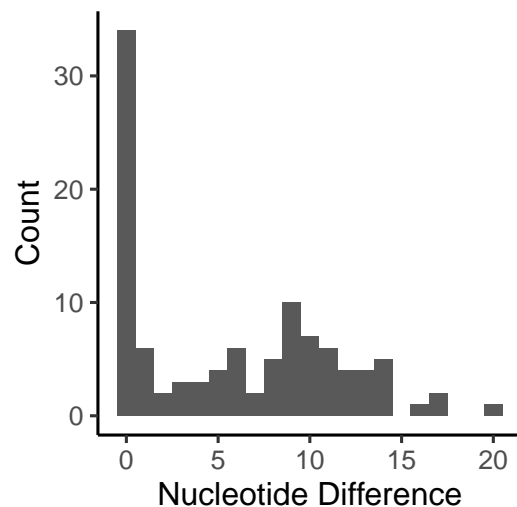
IGHV3-9*01

537 sequences assigned
131 (24.4%) exact matches, in which:
131 unique CDR3
6 unique J



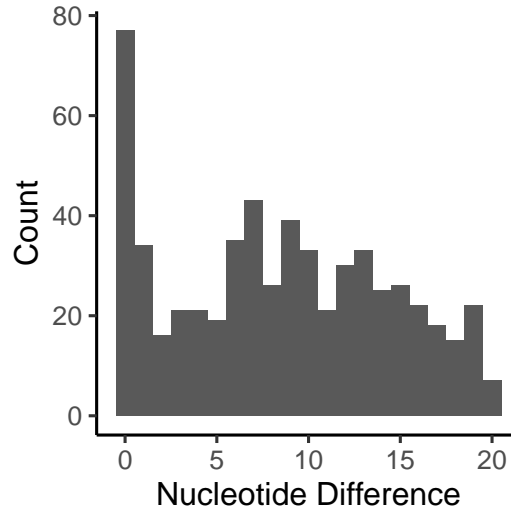
IGHV2-26*01

112 sequences assigned
34 (30.4%) exact matches, in which:
34 unique CDR3
7 unique J



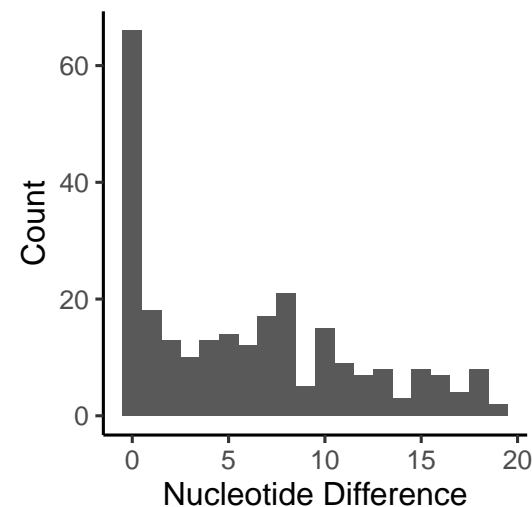
IGHV3-7*01

665 sequences assigned
77 (11.6%) exact matches, in which:
77 unique CDR3
6 unique J



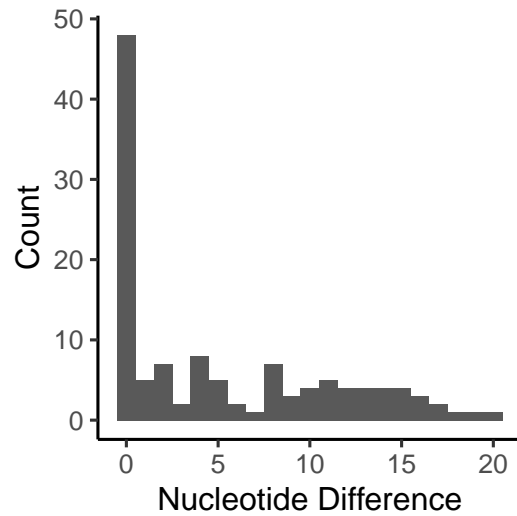
IGHV3-11*01

280 sequences assigned
66 (23.6%) exact matches, in which:
66 unique CDR3
5 unique J



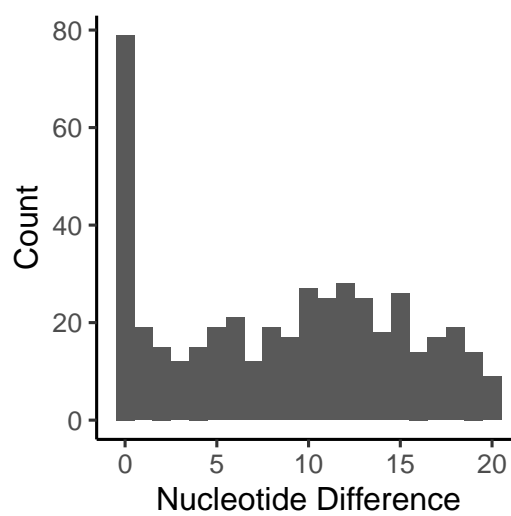
IGHV3-11*06

148 sequences assigned
48 (32.4%) exact matches, in which:
45 unique CDR3
5 unique J



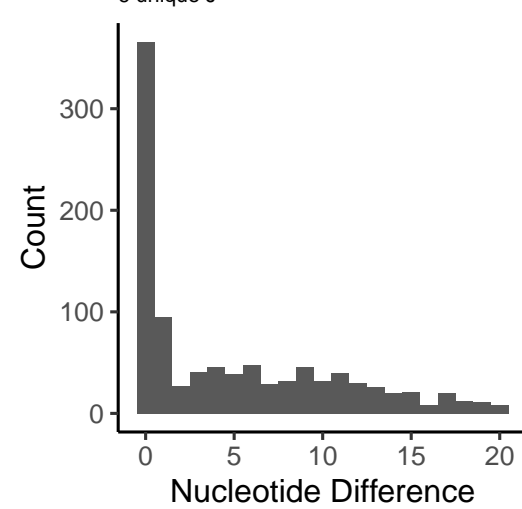
IGHV3-15*01

559 sequences assigned
79 (14.1%) exact matches, in which:
79 unique CDR3
6 unique J



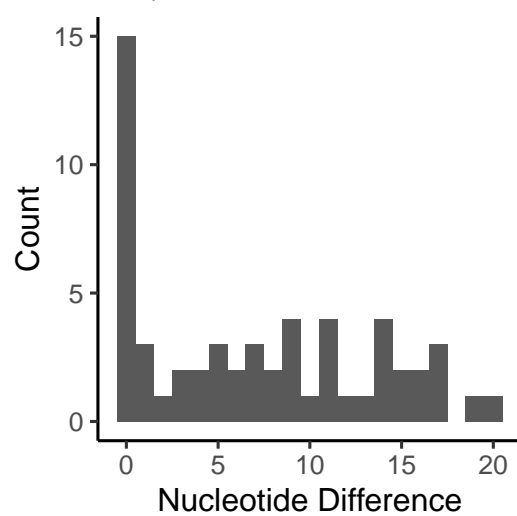
IGHV3-21*01

1081 sequences assigned
366 (33.9%) exact matches, in which:
359 unique CDR3
6 unique J



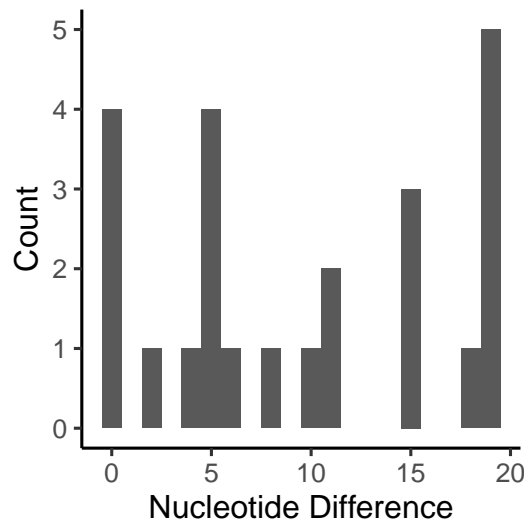
IGHV3-13*01

65 sequences assigned
15 (23.1%) exact matches, in which:
15 unique CDR3
4 unique J



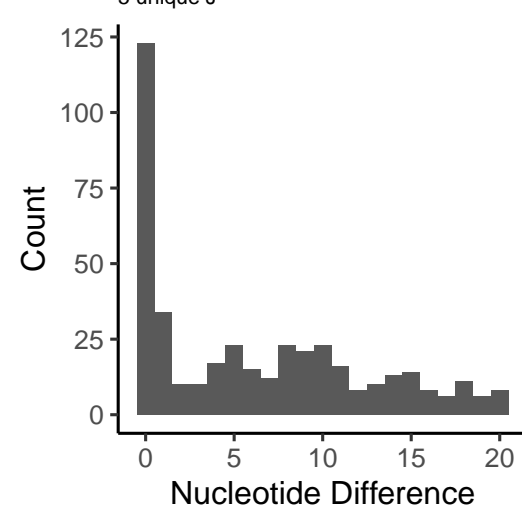
IGHV3-20*01

24 sequences assigned
4 (16.7%) exact matches, in which:
4 unique CDR3
4 unique J



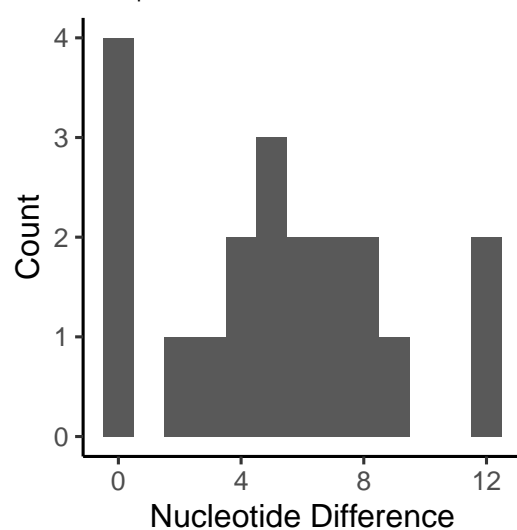
IGHV3-30-3*01

471 sequences assigned
123 (26.1%) exact matches, in which:
120 unique CDR3
5 unique J



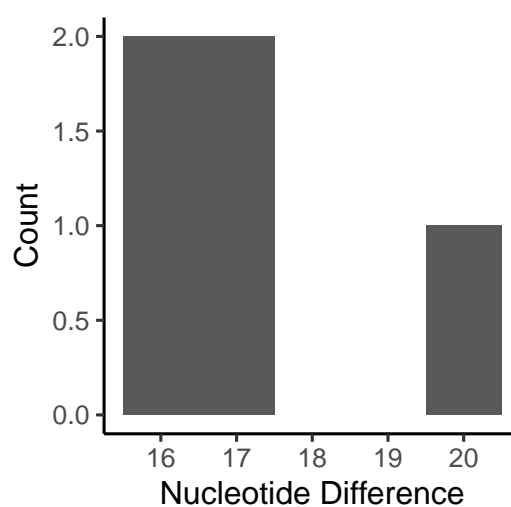
IGHV3-13*05

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



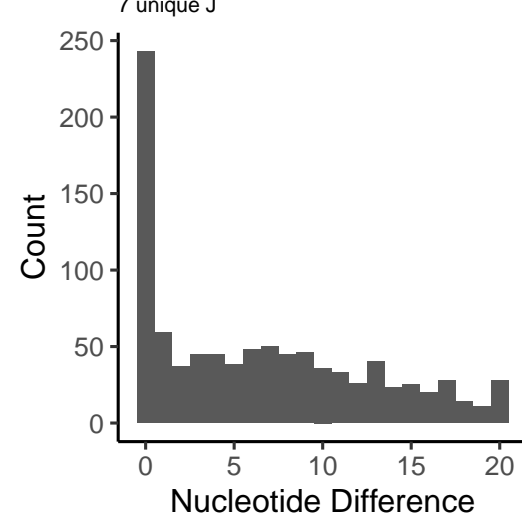
IGHV3-20*04

13 sequences assigned
No exact matches.



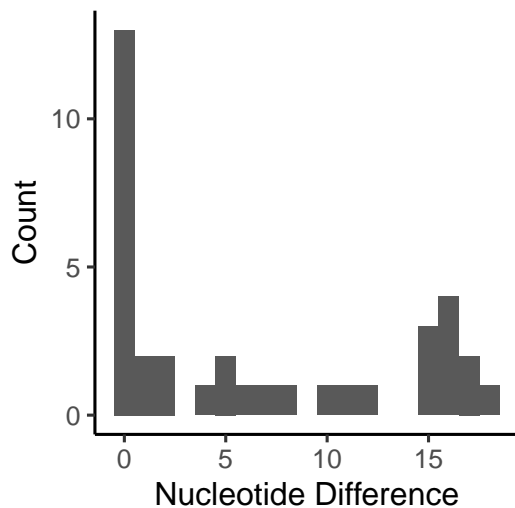
IGHV3-33*01

1050 sequences assigned
243 (23.1%) exact matches, in which:
238 unique CDR3
7 unique J



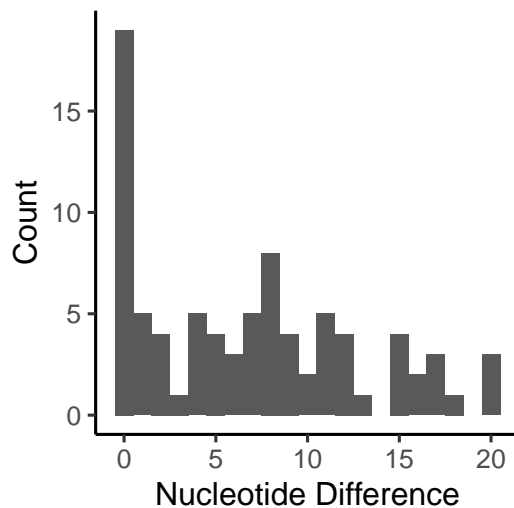
IGHV3-43*01

45 sequences assigned
13 (28.9%) exact matches, in which:
13 unique CDR3
6 unique J



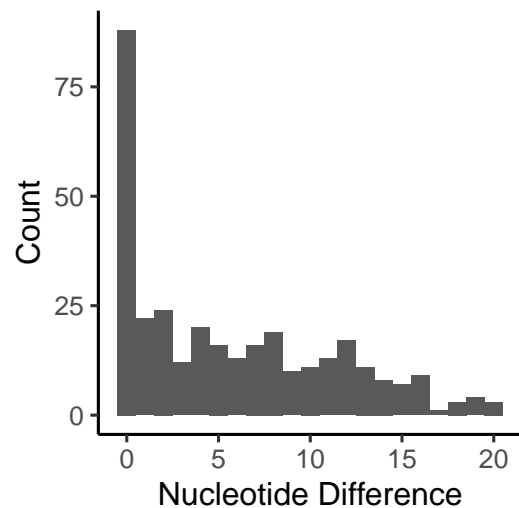
IGHV3-53*02

90 sequences assigned
19 (21.1%) exact matches, in which:
18 unique CDR3
3 unique J



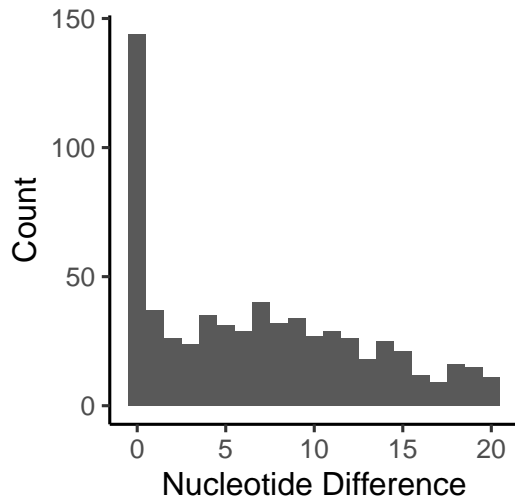
IGHV3-66*01

395 sequences assigned
88 (22.3%) exact matches, in which:
87 unique CDR3
6 unique J



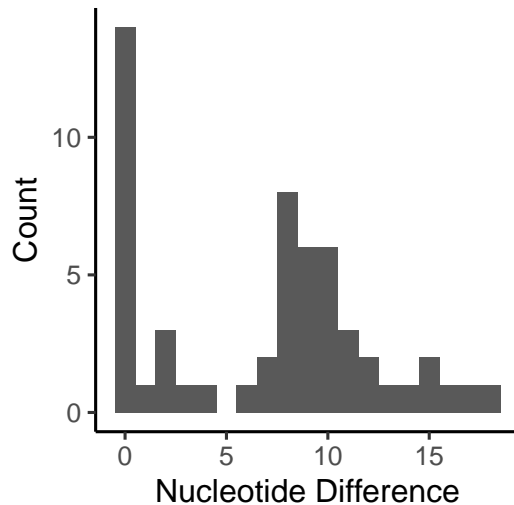
IGHV3-48*01

725 sequences assigned
144 (19.9%) exact matches, in which:
142 unique CDR3
7 unique J



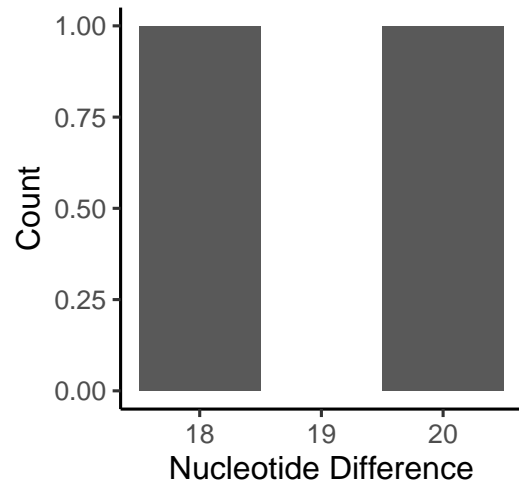
IGHV3-64*01

56 sequences assigned
14 (25%) exact matches, in which:
14 unique CDR3
4 unique J



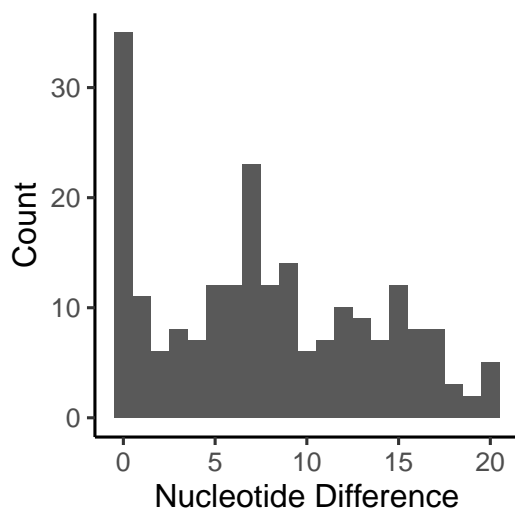
IGHV3-69-1*01

5 sequences assigned
No exact matches.



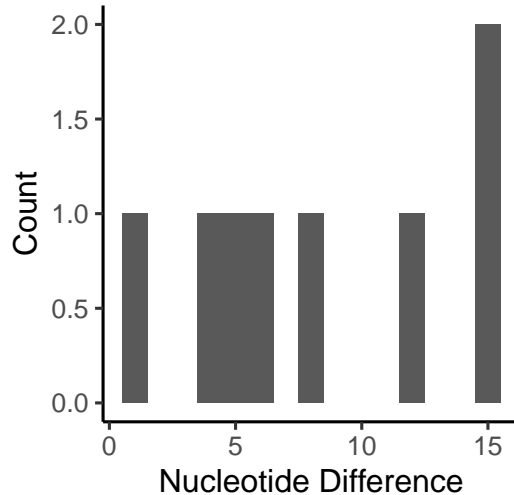
IGHV3-49*03

245 sequences assigned
35 (14.3%) exact matches, in which:
35 unique CDR3
6 unique J



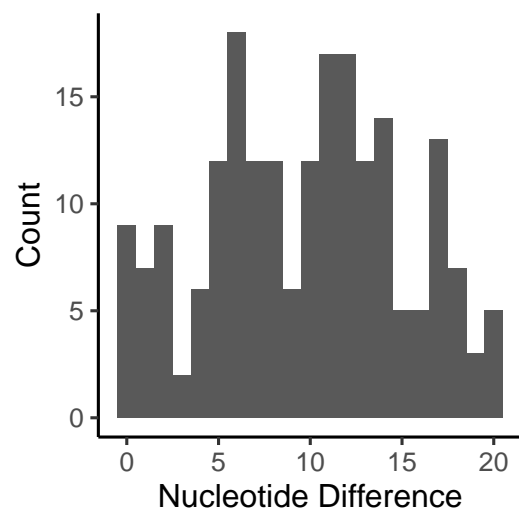
IGHV3-64*07

12 sequences assigned
No exact matches.



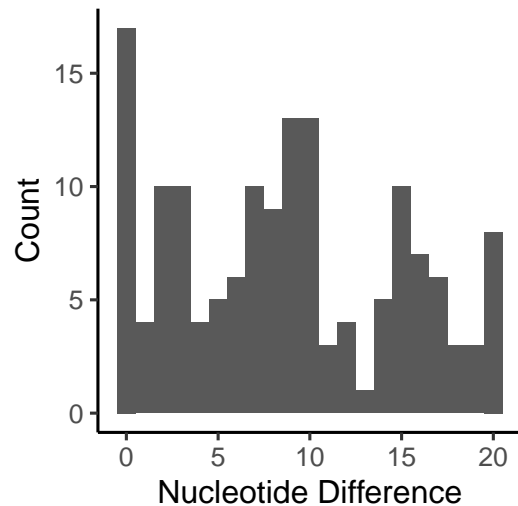
IGHV3-72*01

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



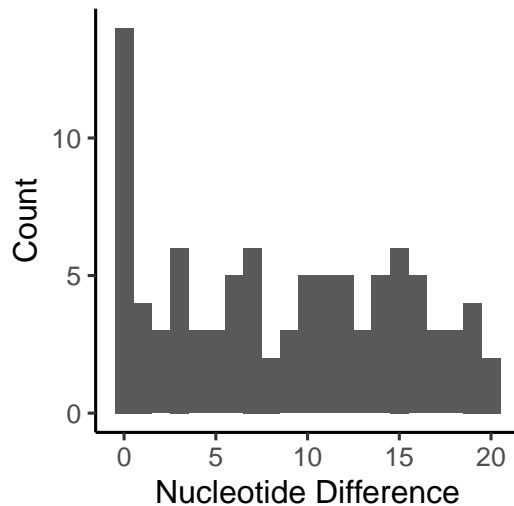
IGHV3-73*01

199 sequences assigned
17 (8.5%) exact matches, in which:
17 unique CDR3
3 unique J



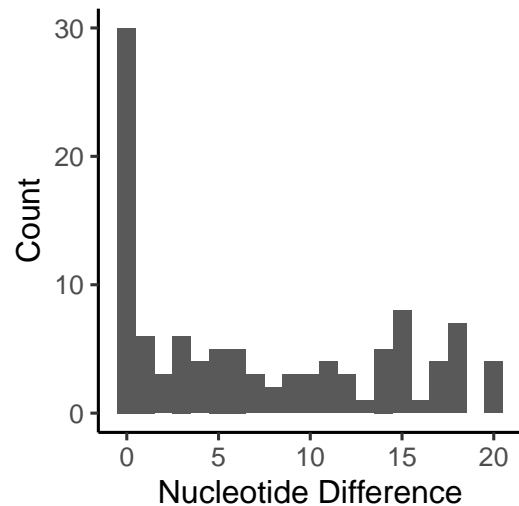
IGHV3-64D*06

102 sequences assigned
14 (13.7%) exact matches, in which:
14 unique CDR3
3 unique J



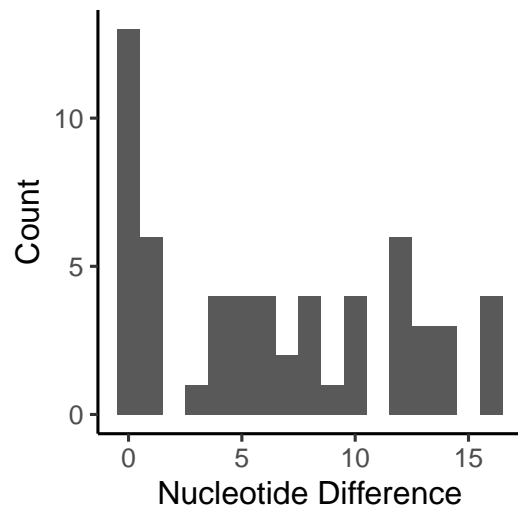
IGHV4-30-4*01

129 sequences assigned
30 (23.3%) exact matches, in which:
30 unique CDR3
4 unique J



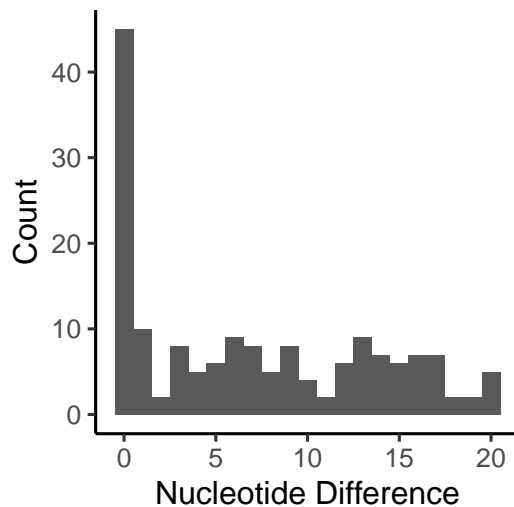
IGHV3-73*02

72 sequences assigned
13 (18.1%) exact matches, in which:
12 unique CDR3
3 unique J



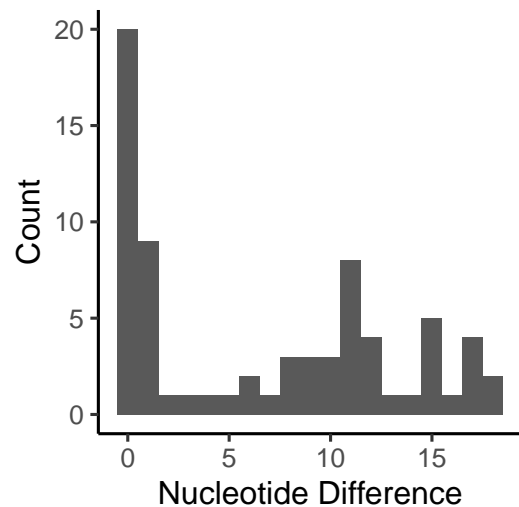
IGHV4-4*07

187 sequences assigned
45 (24.1%) exact matches, in which:
45 unique CDR3
4 unique J



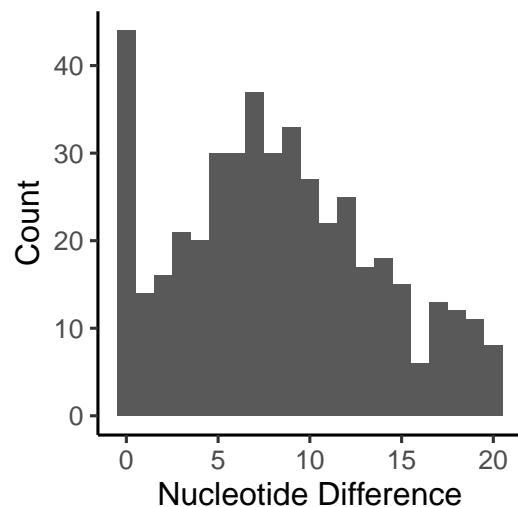
IGHV4-30-2*01

83 sequences assigned
20 (24.1%) exact matches, in which:
19 unique CDR3
6 unique J



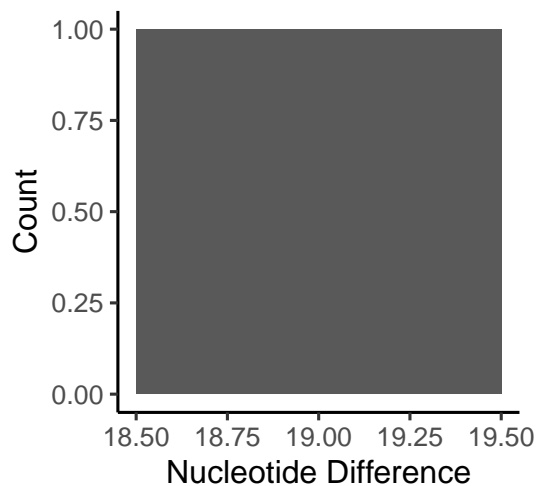
IGHV3-74*01

516 sequences assigned
44 (8.5%) exact matches, in which:
42 unique CDR3
5 unique J



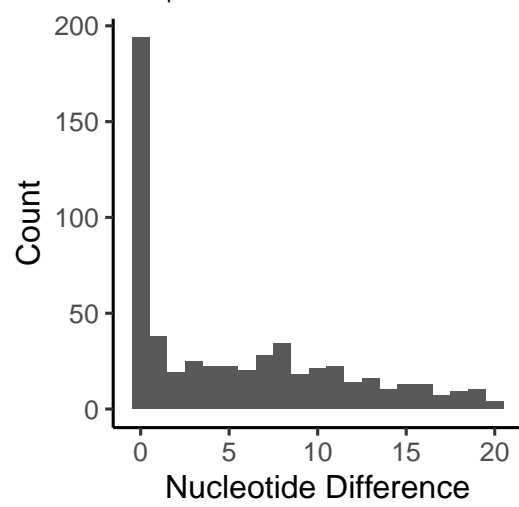
IGHV4-28*05

1 sequences assigned
No exact matches.



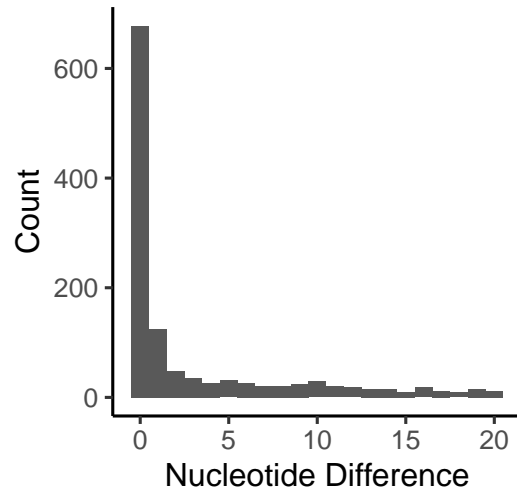
IGHV4-31*03

626 sequences assigned
194 (31%) exact matches, in which:
194 unique CDR3
7 unique J



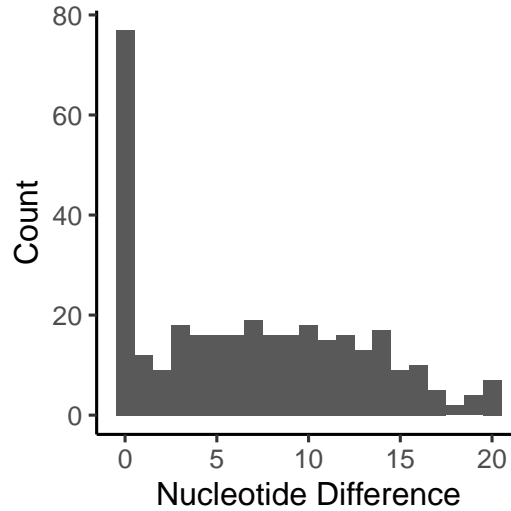
IGHV4-34*01

1324 sequences assigned
678 (51.2%) exact matches, in which:
662 unique CDR3
7 unique J



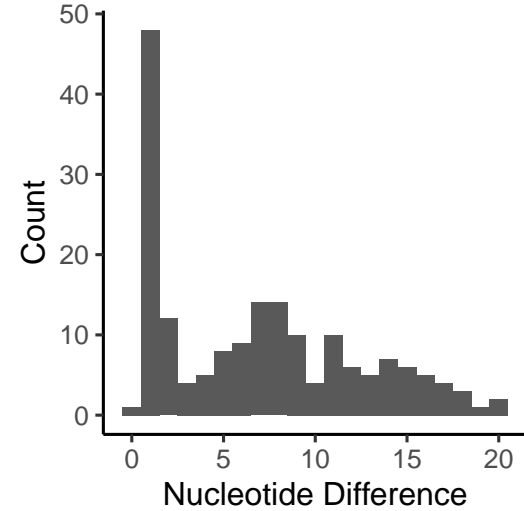
IGHV4-59*08

386 sequences assigned
77 (19.9%) exact matches, in which:
77 unique CDR3
6 unique J



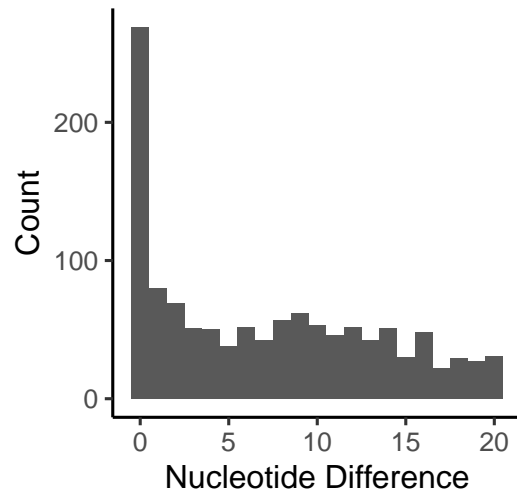
IGHV5-51*01

195 sequences assigned
1 (0.5%) exact matches, in which:
1 unique CDR3
1 unique J



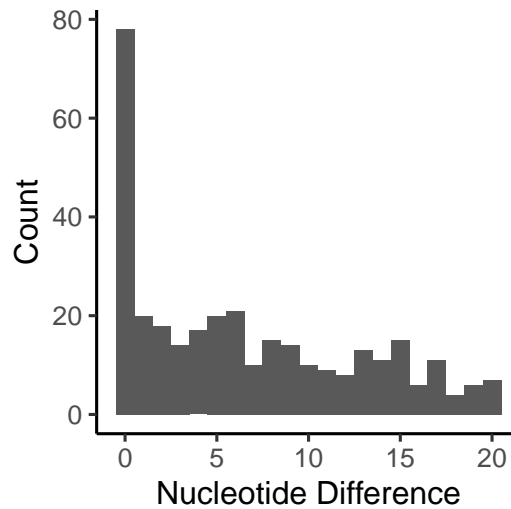
IGHV4-39*01

1353 sequences assigned
269 (19.9%) exact matches, in which:
263 unique CDR3
7 unique J



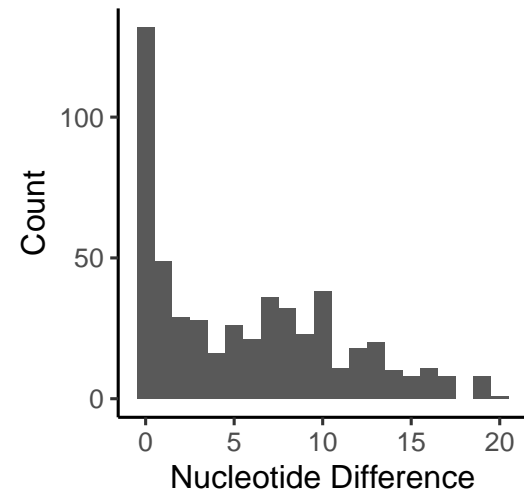
IGHV4-61*02_A234G

372 sequences assigned
78 (21%) exact matches, in which:
75 unique CDR3
6 unique J



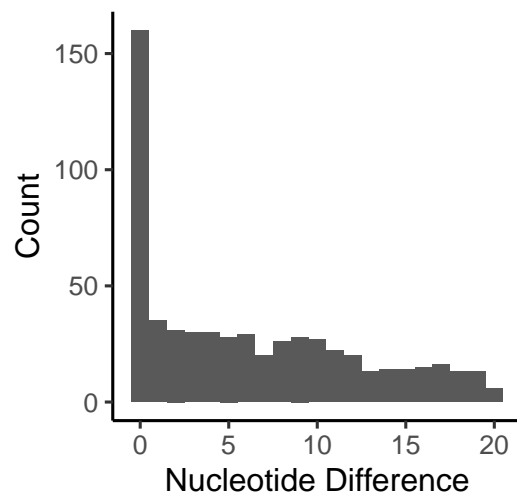
IGHV5-51*03

568 sequences assigned
132 (23.2%) exact matches, in which:
128 unique CDR3
7 unique J



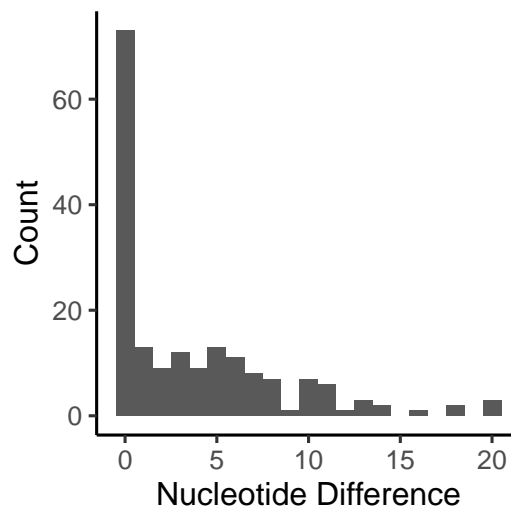
IGHV4-59*01

664 sequences assigned
160 (24.1%) exact matches, in which:
160 unique CDR3
7 unique J



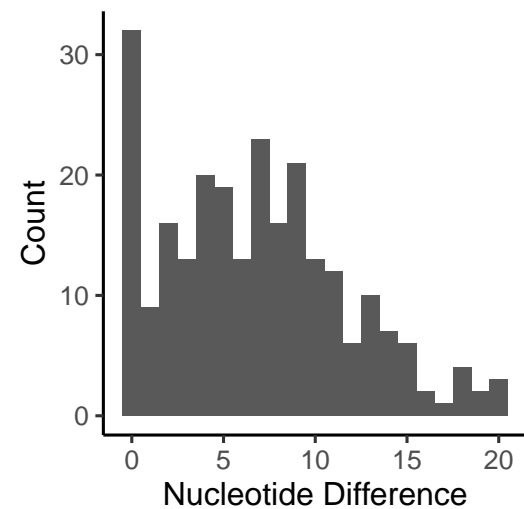
IGHV5-10-1*03

220 sequences assigned
73 (33.2%) exact matches, in which:
73 unique CDR3
5 unique J



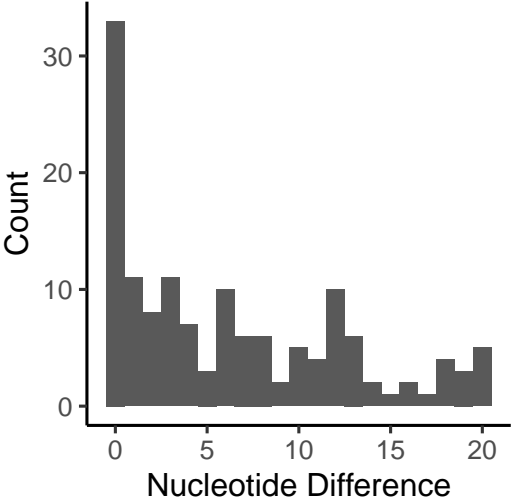
IGHV6-1*01

260 sequences assigned
32 (12.3%) exact matches, in which:
31 unique CDR3
5 unique J

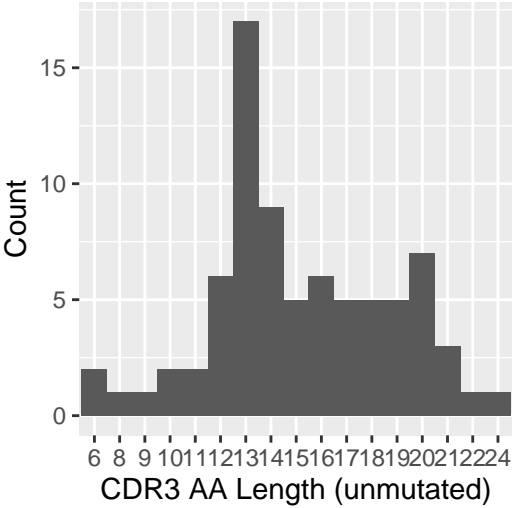


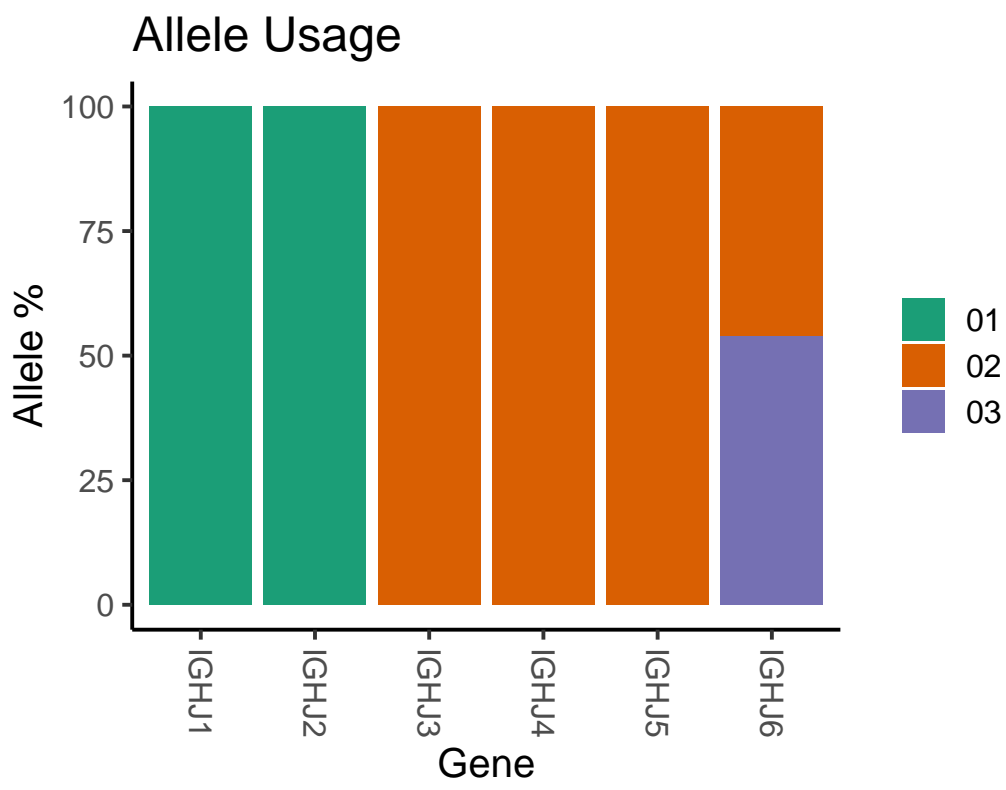
IGHV7-4-1*02

155 sequences assigned
33 (21.3%) exact matches, in which:
33 unique CDR3
6 unique J



IGHV4-61*02_A234G





Sequence Count by IGHJ6 allele usage

