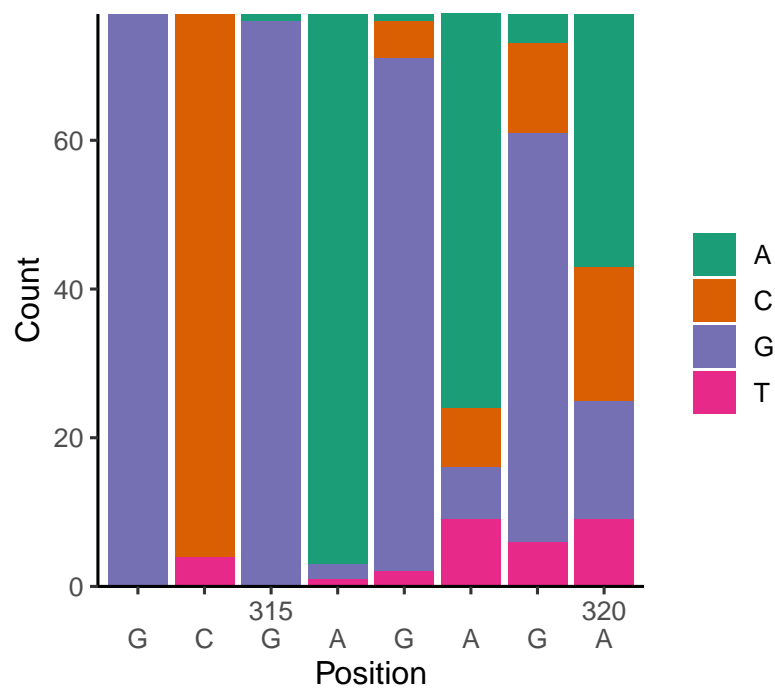
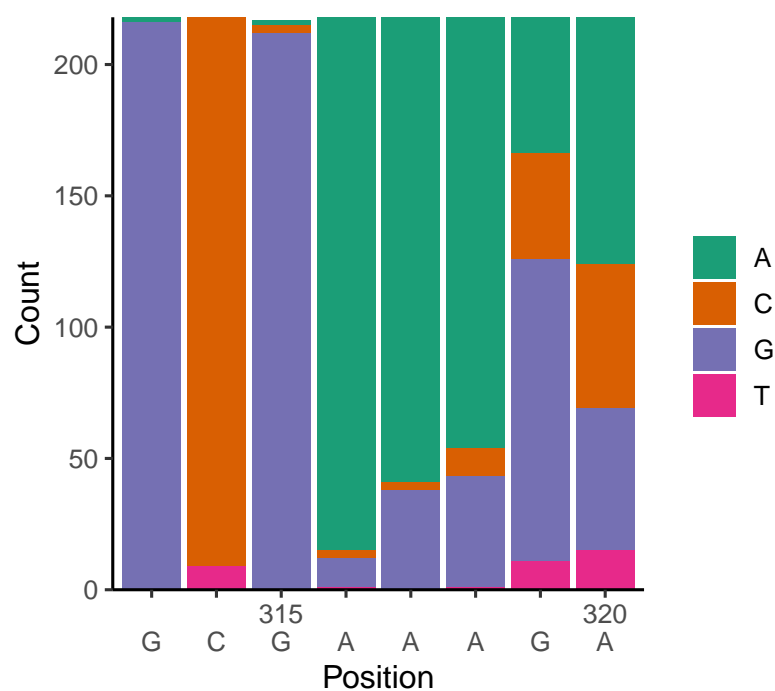


Gene IGHV1-69*01_12_13_G238A



Gene IGHV3-33*06_C288T



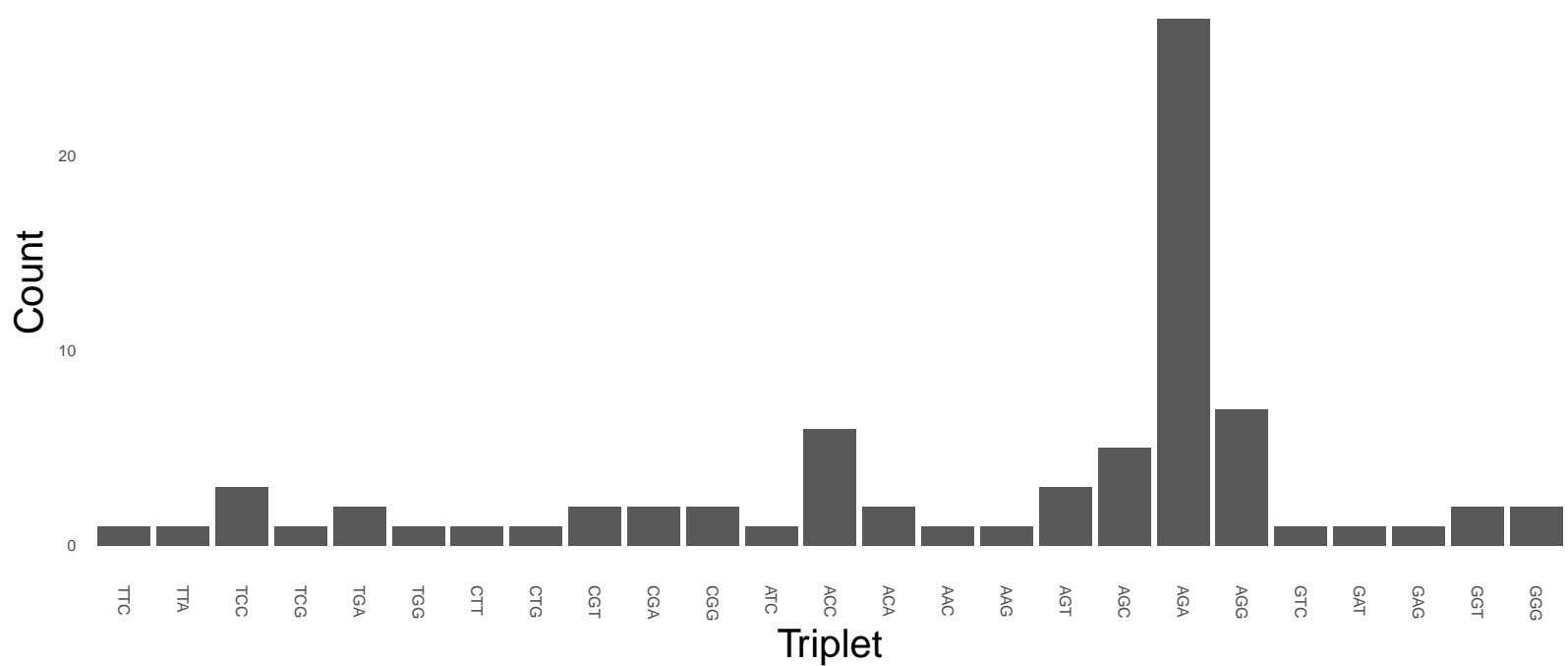
Gene IGHV1-69*01_12_13_G238A



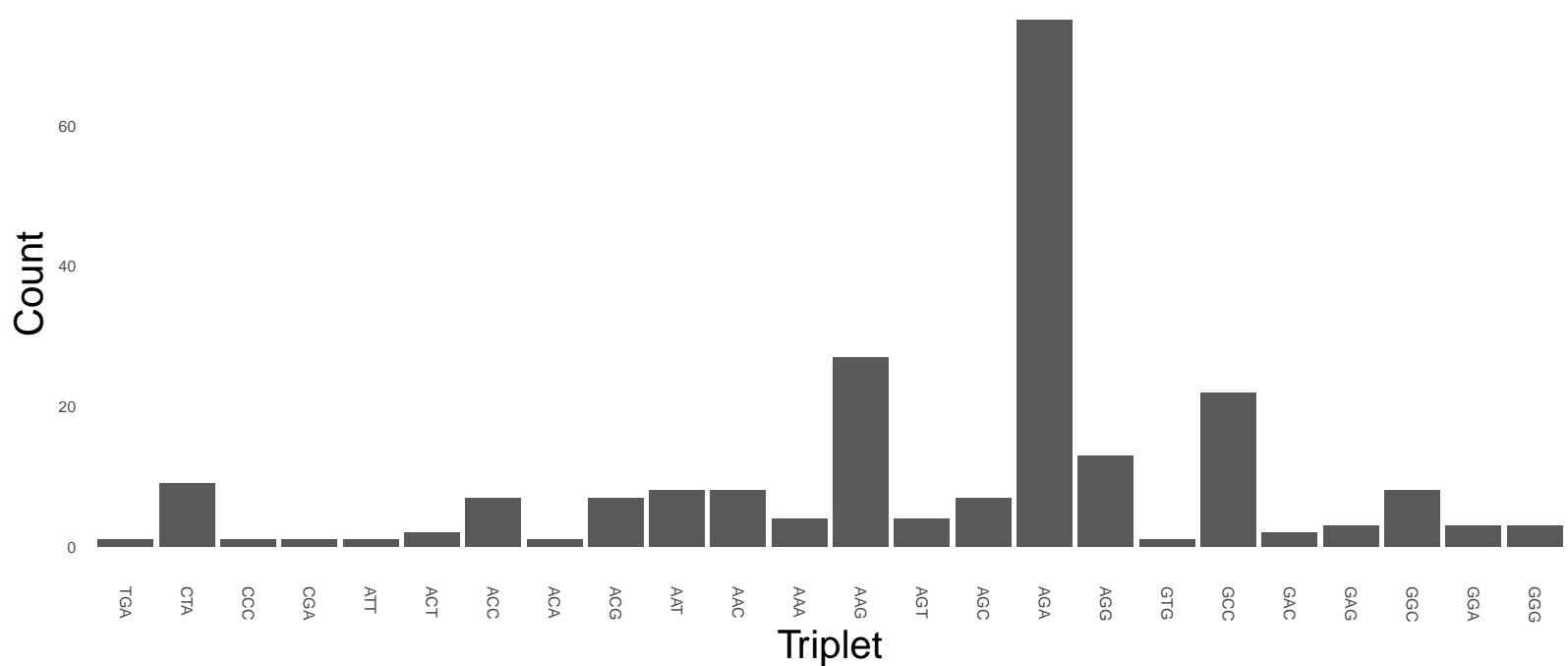
Gene IGHV3-33*06_C288T



IGHV1-69*01_12_13_G238A- Final 3 nucleotides as a triplet

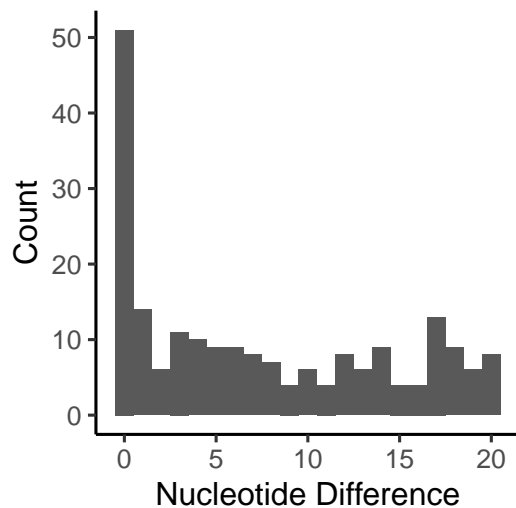


IGHV3-33*06_C288T- Final 3 nucleotides as a triplet



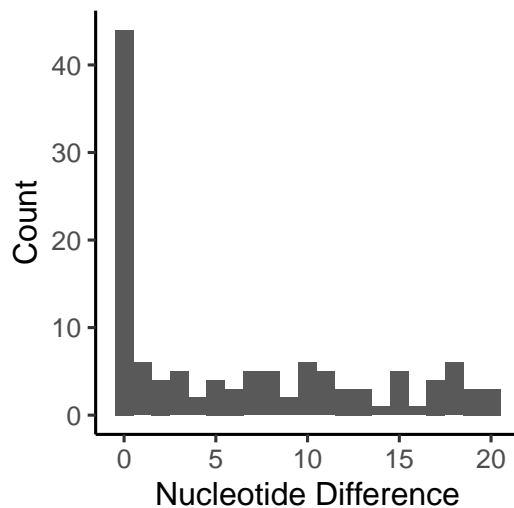
IGHV1-2*02

252 sequences assigned
51 (20.2%) exact matches, in which:
49 unique CDR3
6 unique J



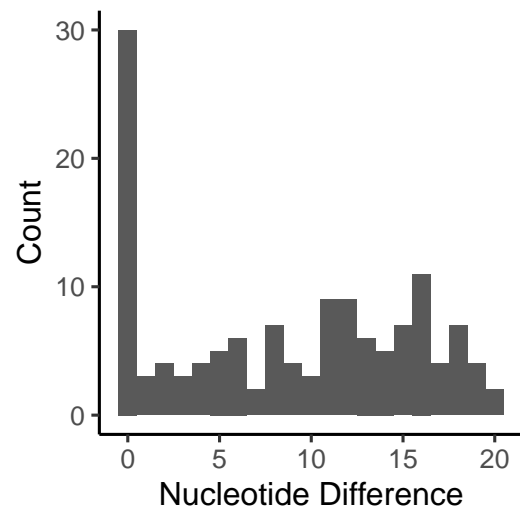
IGHV1-8*01

128 sequences assigned
44 (34.4%) exact matches, in which:
44 unique CDR3
6 unique J



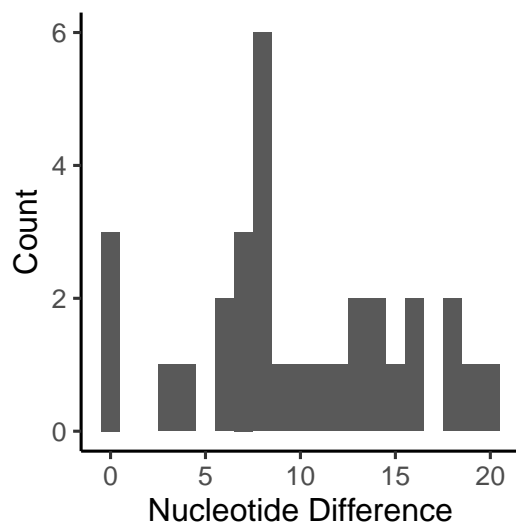
IGHV1-46*01

161 sequences assigned
30 (18.6%) exact matches, in which:
30 unique CDR3
6 unique J



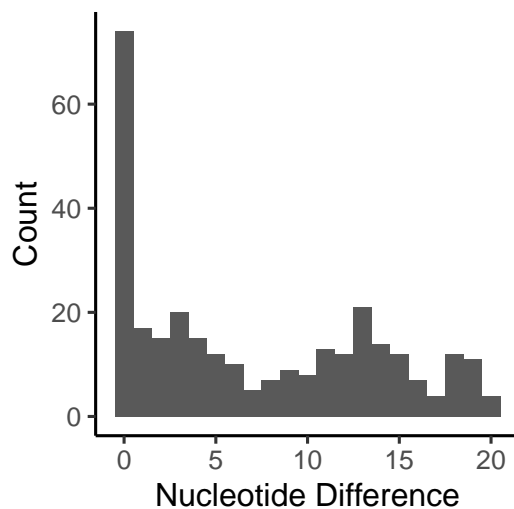
IGHV1-3*03

39 sequences assigned
3 (7.7%) exact matches, in which:
3 unique CDR3
2 unique J



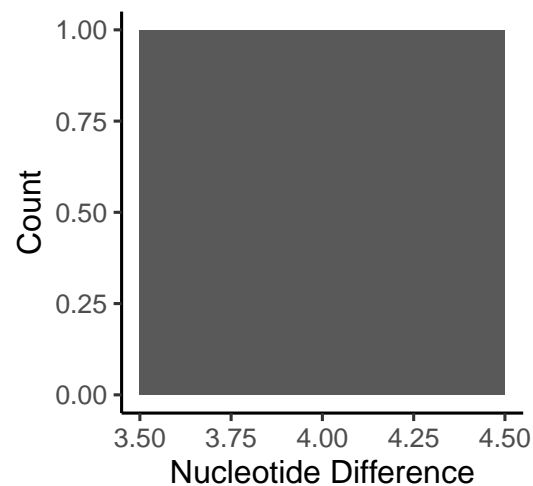
IGHV1-18*01

341 sequences assigned
74 (21.7%) exact matches, in which:
74 unique CDR3
7 unique J



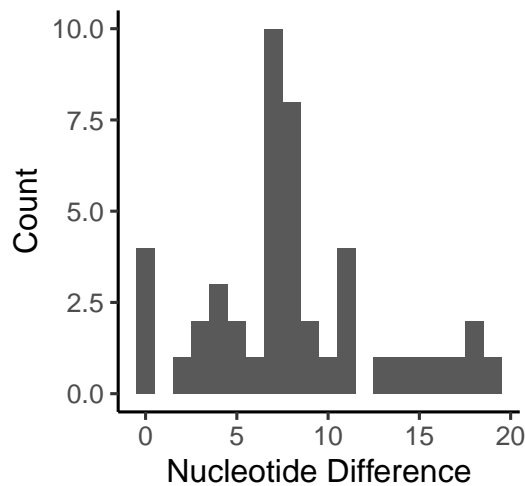
IGHV1-58*02

1 sequences assigned
No exact matches.



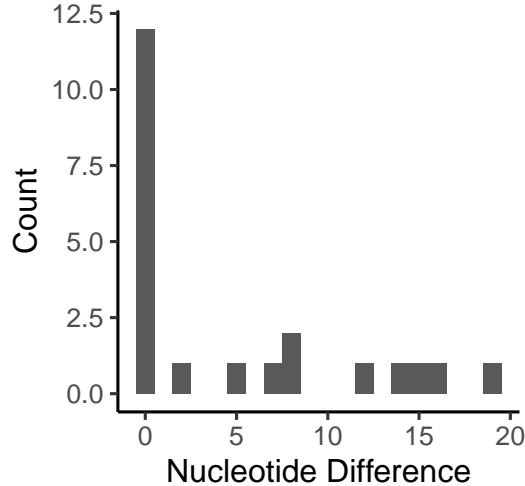
IGHV1-3*01_05

52 sequences assigned
4 (7.7%) exact matches, in which:
4 unique CDR3
3 unique J



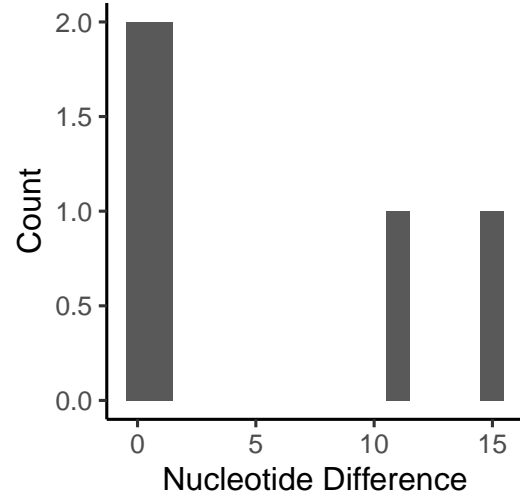
IGHV1-24*01

28 sequences assigned
12 (42.9%) exact matches, in which:
12 unique CDR3
4 unique J



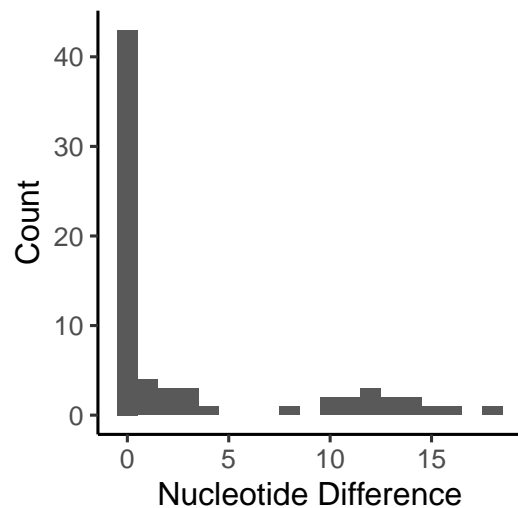
IGHV1-69-2*01

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



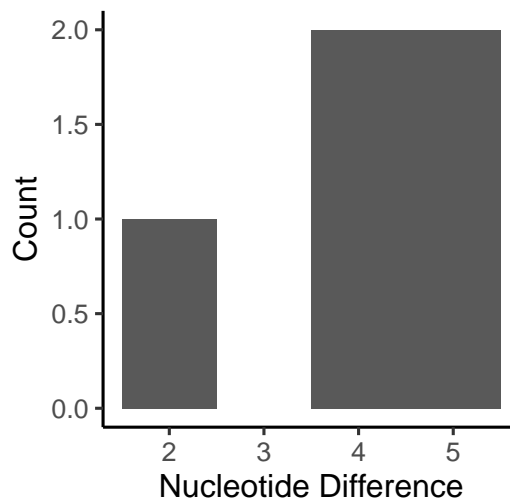
IGHV1-69*01_12_13_G23

77 sequences assigned
43 (55.8%) exact matches, in which:
43 unique CDR3
5 unique J



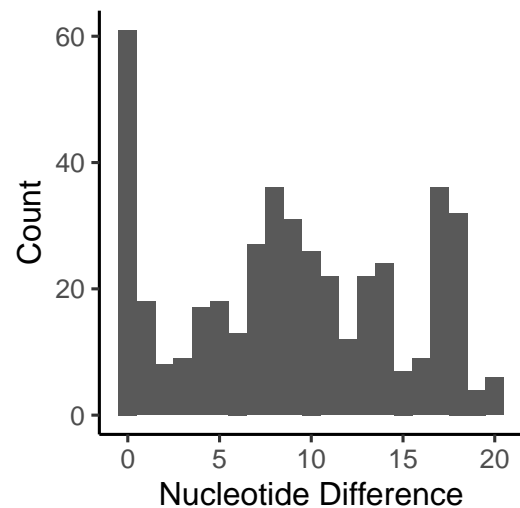
IGHV2-26*01

5 sequences assigned
No exact matches.



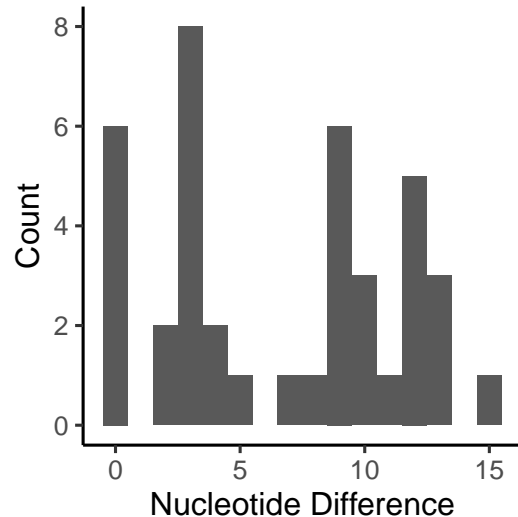
IGHV3-9*01

458 sequences assigned
61 (13.3%) exact matches, in which:
53 unique CDR3
6 unique J



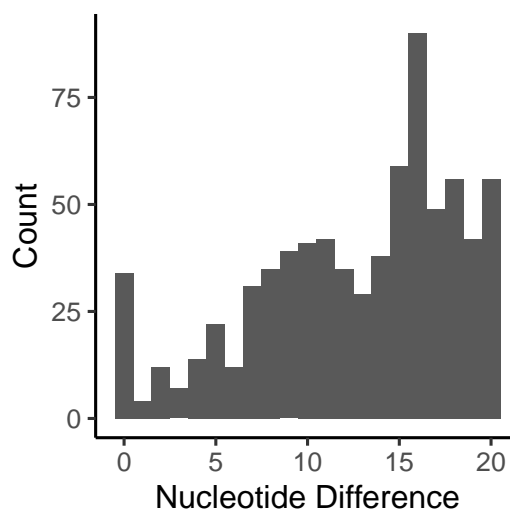
IGHV2-5*01

40 sequences assigned
6 (15%) exact matches, in which:
6 unique CDR3
4 unique J



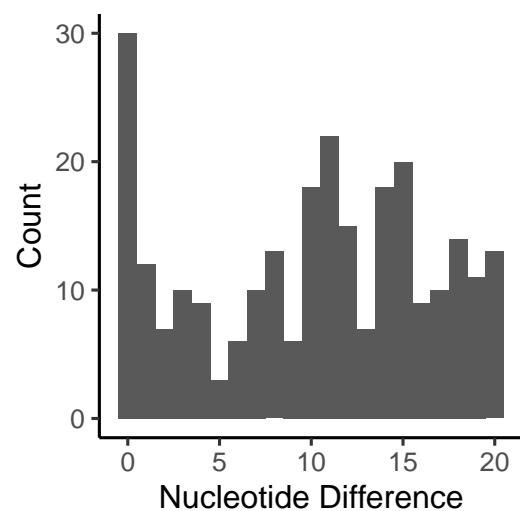
IGHV3-7*01

825 sequences assigned
34 (4.1%) exact matches, in which:
32 unique CDR3
4 unique J



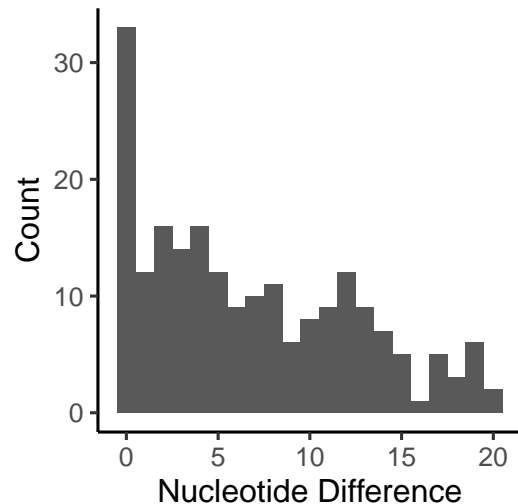
IGHV3-11*01

290 sequences assigned
30 (10.3%) exact matches, in which:
27 unique CDR3
5 unique J



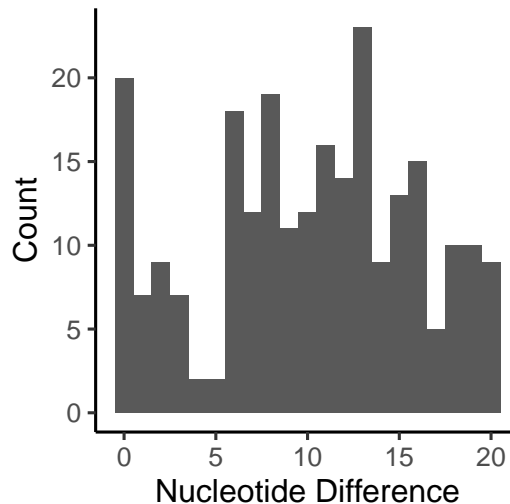
IGHV2-5*02

214 sequences assigned
33 (15.4%) exact matches, in which:
32 unique CDR3
4 unique J



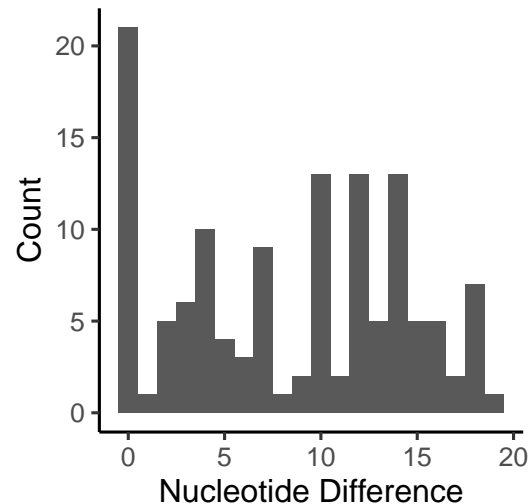
IGHV3-7*03

363 sequences assigned
20 (5.5%) exact matches, in which:
16 unique CDR3
3 unique J



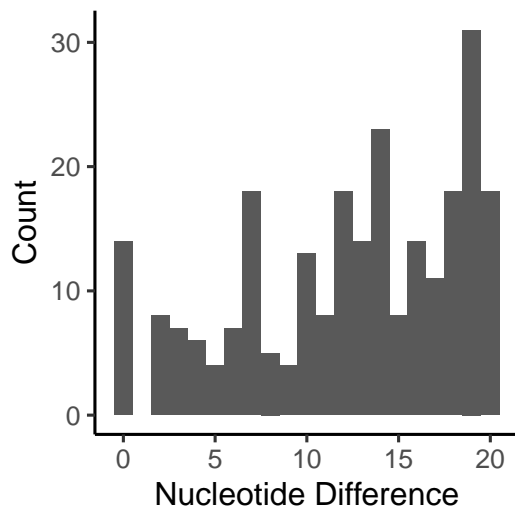
IGHV3-11*04

136 sequences assigned
21 (15.4%) exact matches, in which:
19 unique CDR3
4 unique J



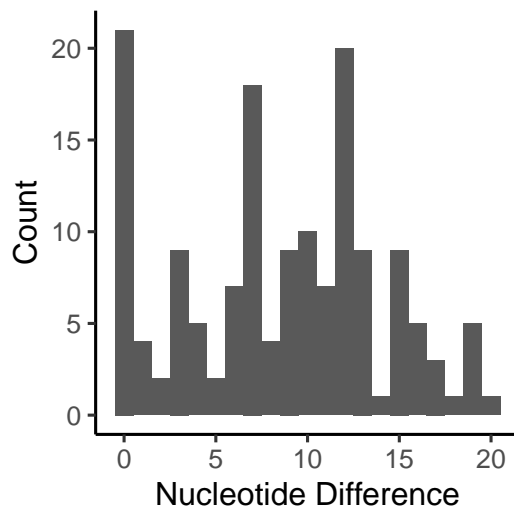
IGHV3-15*01_02

292 sequences assigned
14 (4.8%) exact matches, in which:
13 unique CDR3
4 unique J



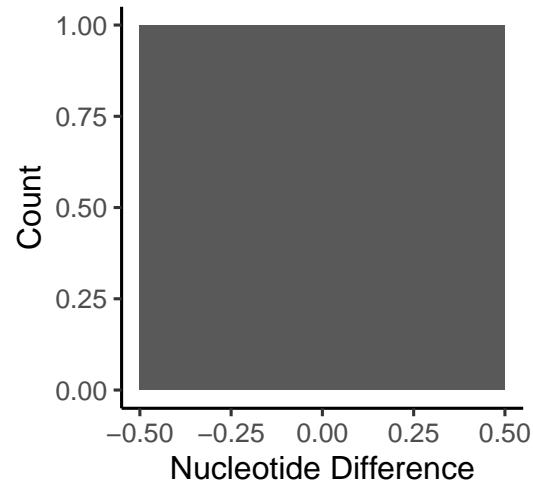
IGHV3-33*01

171 sequences assigned
21 (12.3%) exact matches, in which:
20 unique CDR3
3 unique J



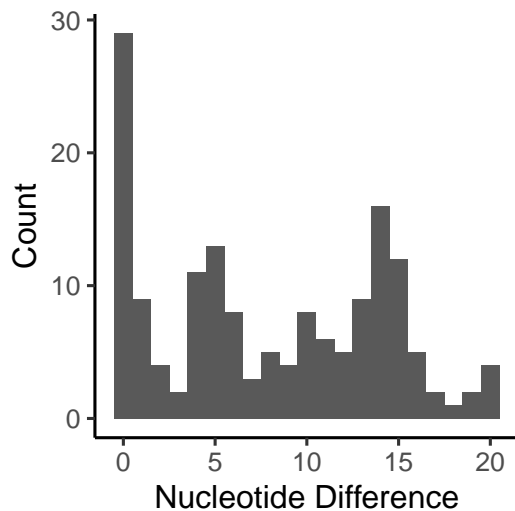
IGHV3-47*02

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



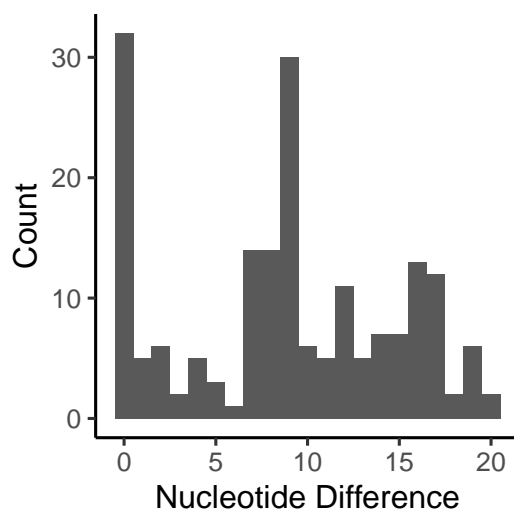
IGHV3-20*03_04

170 sequences assigned
29 (17.1%) exact matches, in which:
28 unique CDR3
6 unique J



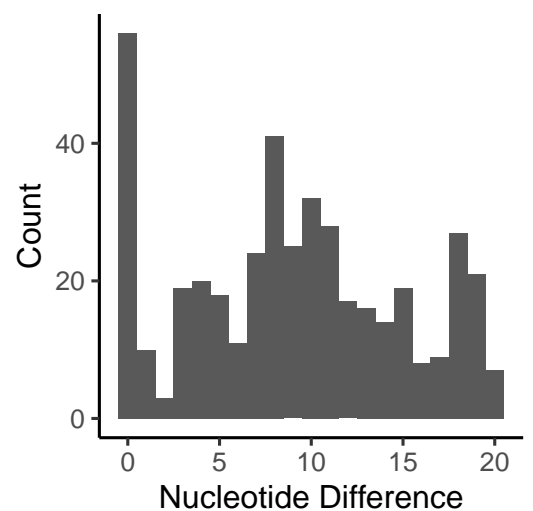
IGHV3-33*06_C288T

218 sequences assigned
32 (14.7%) exact matches, in which:
31 unique CDR3
4 unique J



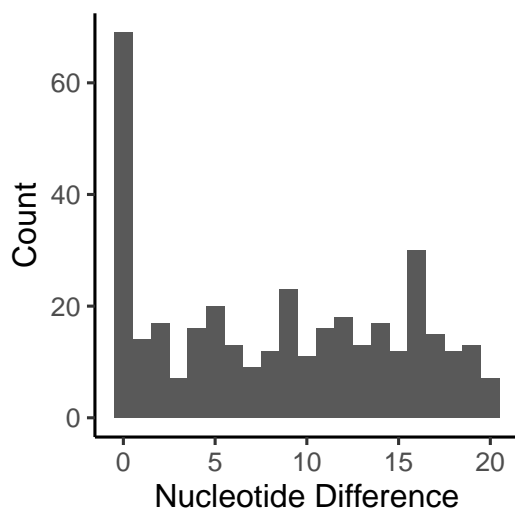
IGHV3-48*04

516 sequences assigned
56 (10.9%) exact matches, in which:
48 unique CDR3
5 unique J



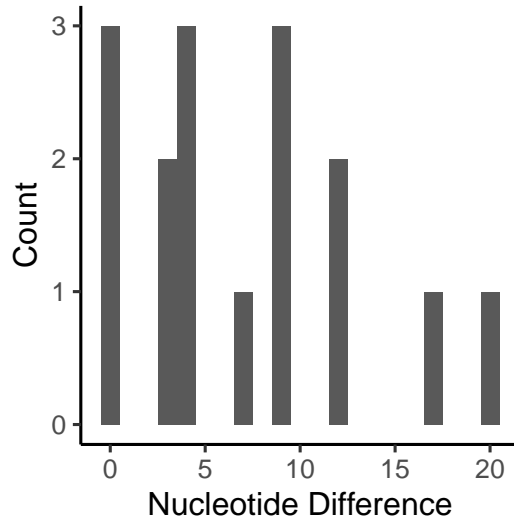
IGHV3-21*03

401 sequences assigned
69 (17.2%) exact matches, in which:
62 unique CDR3
6 unique J



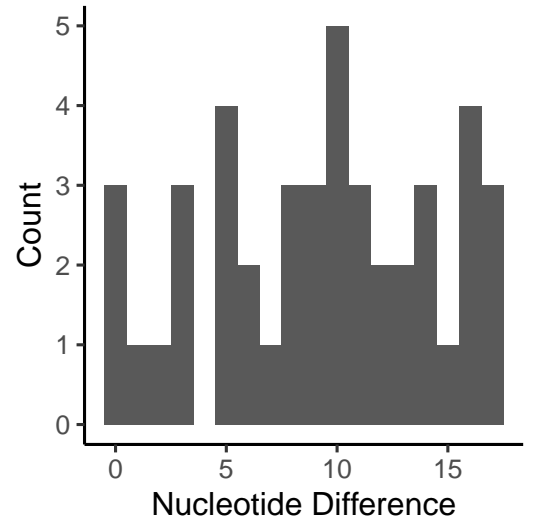
IGHV3-43*01

26 sequences assigned
3 (11.5%) exact matches, in which:
3 unique CDR3
3 unique J



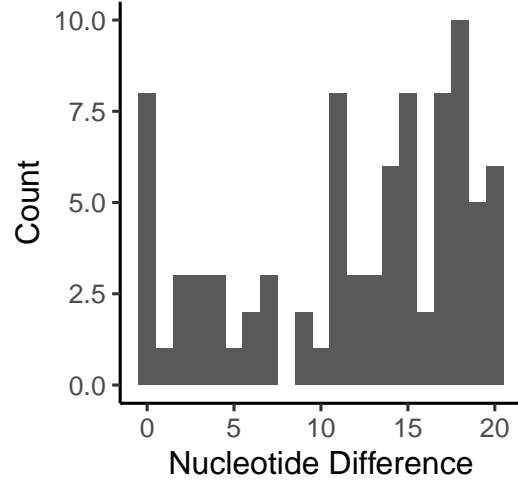
IGHV3-49*04

55 sequences assigned
3 (5.5%) exact matches, in which:
3 unique CDR3
2 unique J



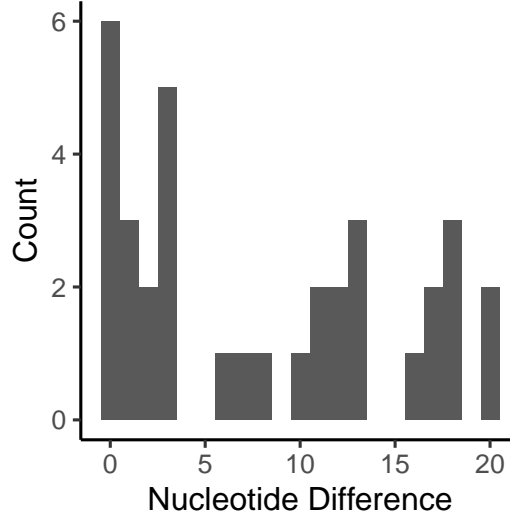
IGHV3-49*03_05

109 sequences assigned
8 (7.3%) exact matches, in which:
5 unique CDR3
4 unique J



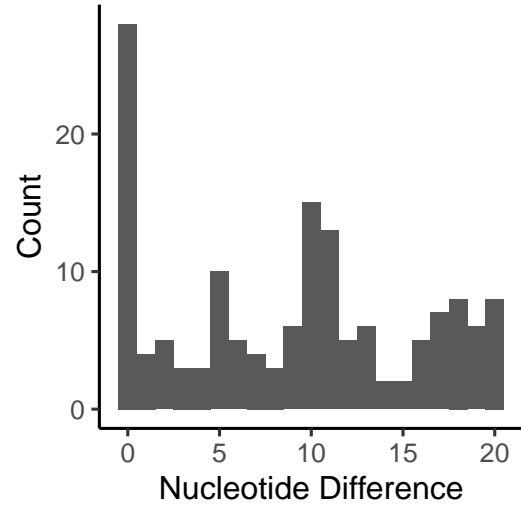
IGHV3-53*01_02

43 sequences assigned
6 (14%) exact matches, in which:
6 unique CDR3
3 unique J



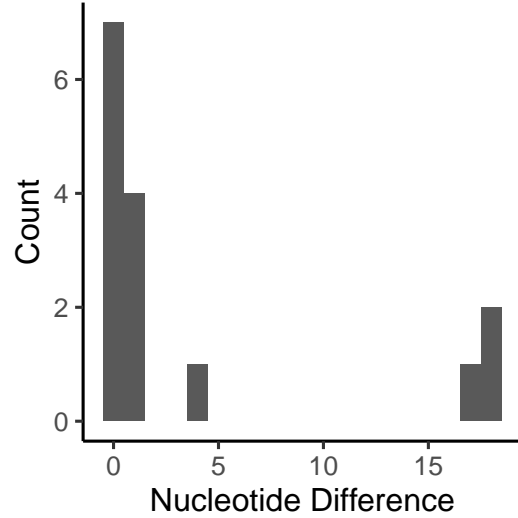
IGHV3-66*02

190 sequences assigned
28 (14.7%) exact matches, in which:
27 unique CDR3
6 unique J



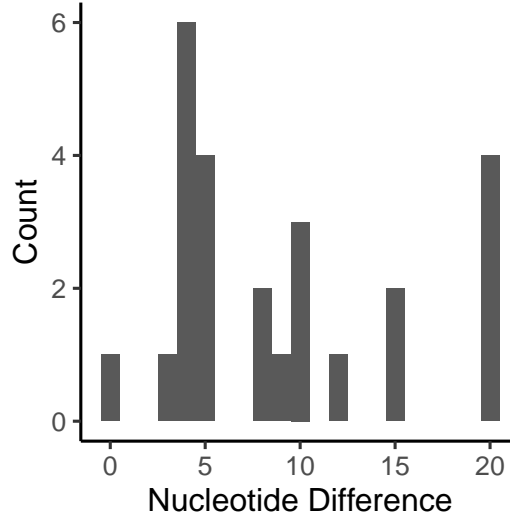
IGHV3-53*04

15 sequences assigned
7 (46.7%) exact matches, in which:
7 unique CDR3
2 unique J



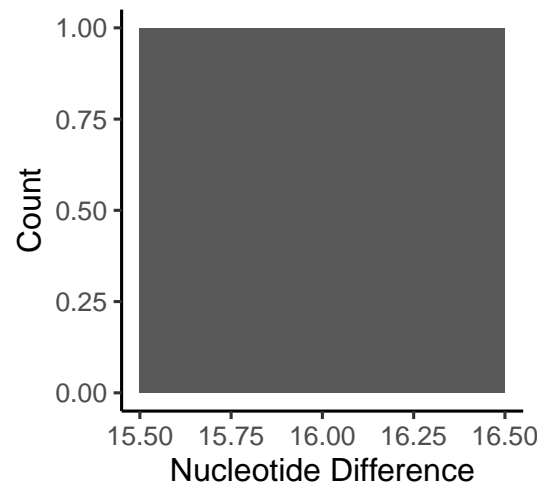
IGHV3-64*01

26 sequences assigned
1 (3.8%) exact matches, in which:
1 unique CDR3
1 unique J



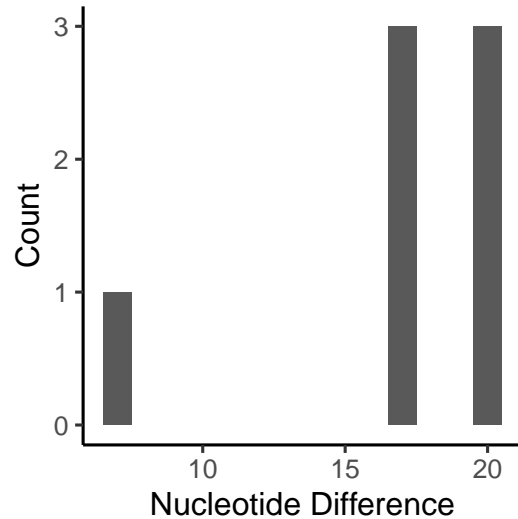
IGHV3-69-1*01

4 sequences assigned
No exact matches.



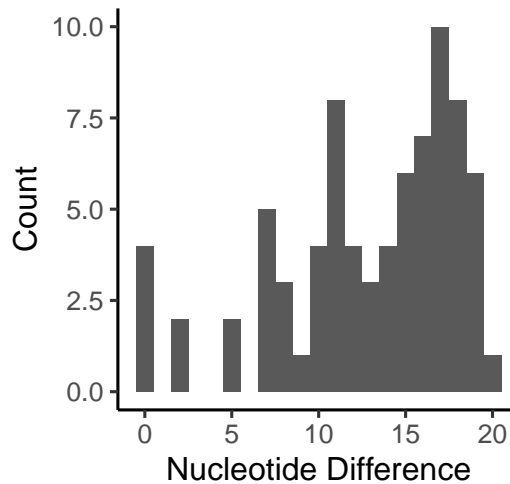
IGHV3-53*05

34 sequences assigned
No exact matches.



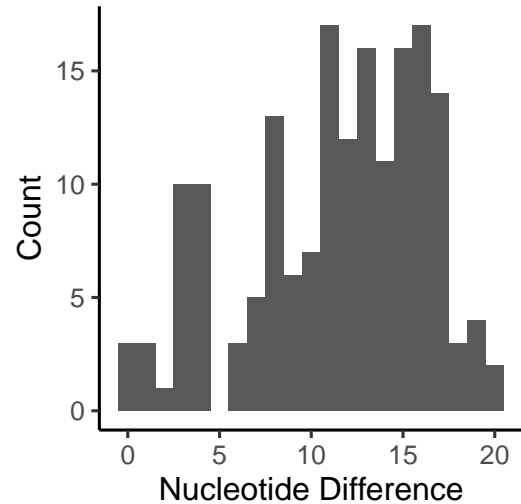
IGHV3-64*02_07

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



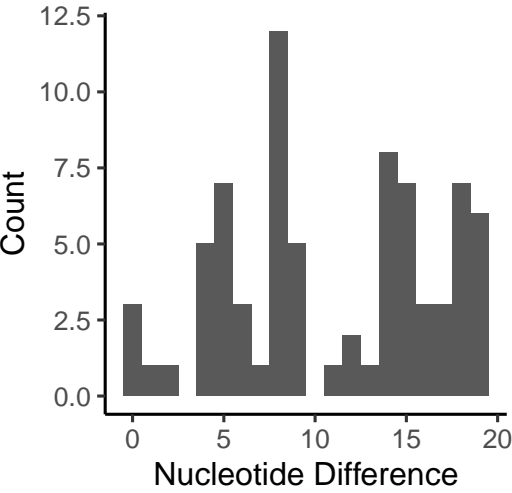
IGHV3-72*01

205 sequences assigned
3 (1.5%) exact matches, in which:
3 unique CDR3
2 unique J



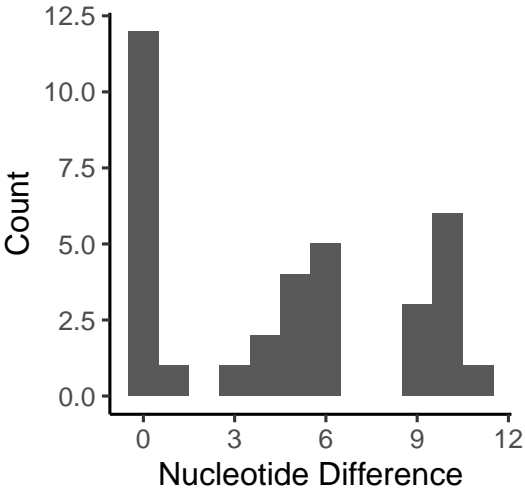
IGHV3-73*01_02

81 sequences assigned
3 (3.7%) exact matches, in which:
3 unique CDR3
3 unique J



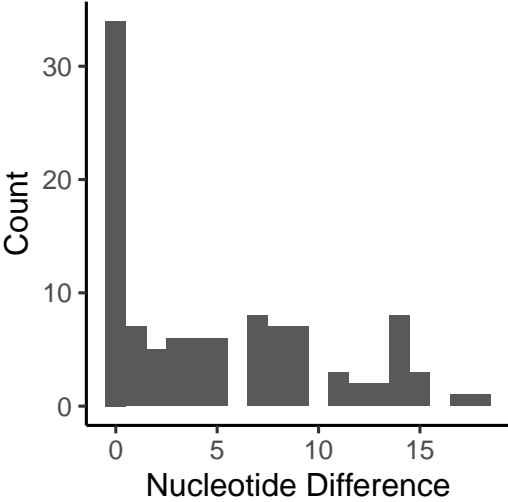
IGHV3-43D*03

37 sequences assigned
12 (32.4%) exact matches, in which:
8 unique CDR3
4 unique J



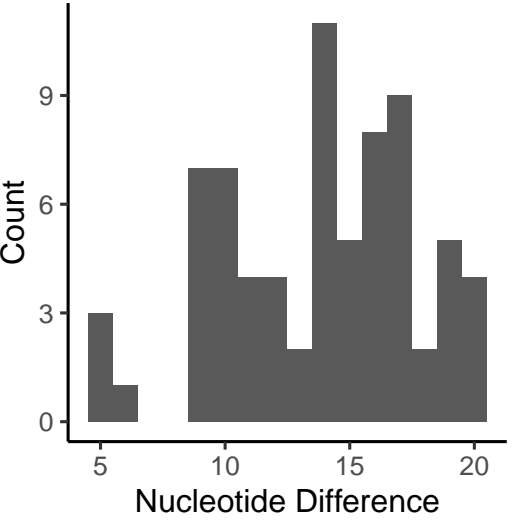
IGHV4-4*09

114 sequences assigned
34 (29.8%) exact matches, in which:
29 unique CDR3
6 unique J



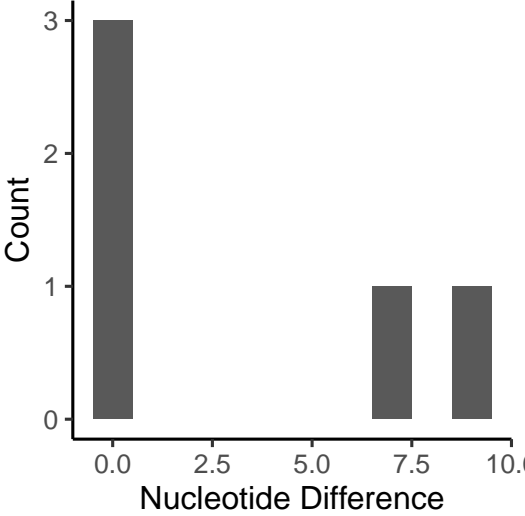
IGHV3-74*03

113 sequences assigned
No exact matches.



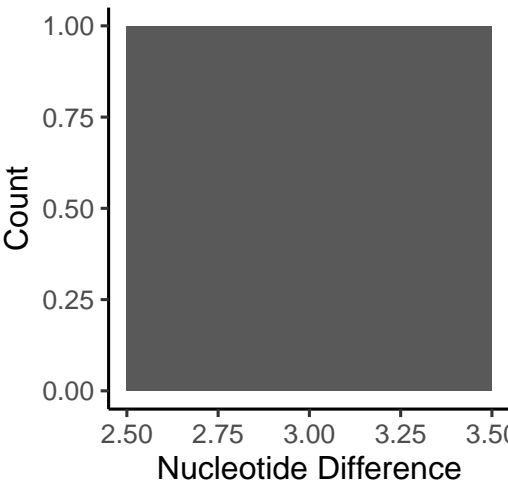
IGHV3-43D*04

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
1 unique J



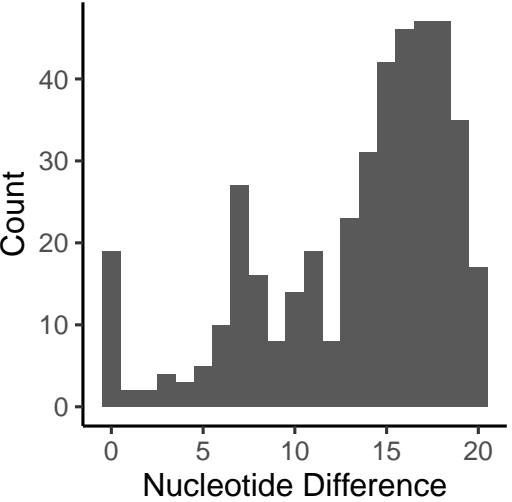
IGHV4-28*03

1 sequences assigned
No exact matches.



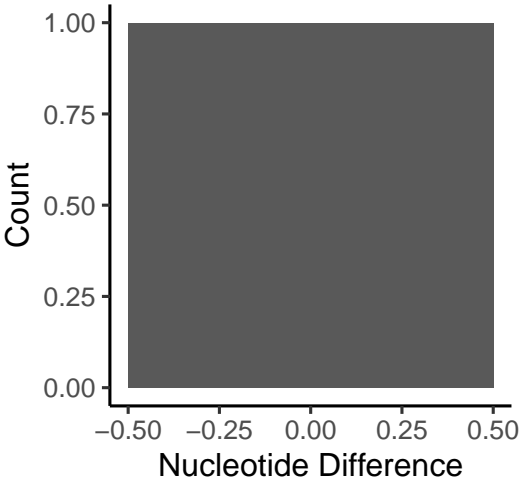
IGHV3-74*01_02

457 sequences assigned
19 (4.2%) exact matches, in which:
15 unique CDR3
5 unique J



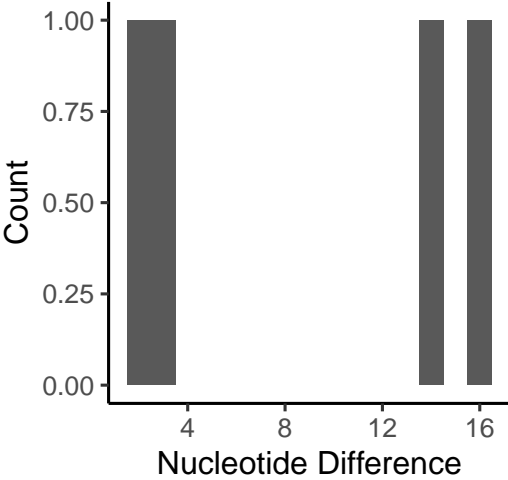
IGHV3-64D*09

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



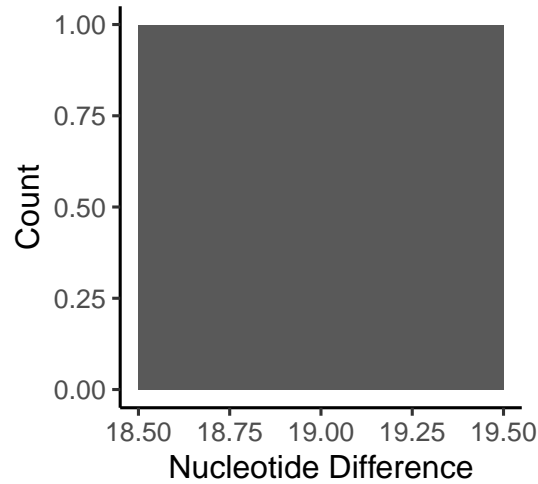
IGHV4-28*01_07

17 sequences assigned
No exact matches.



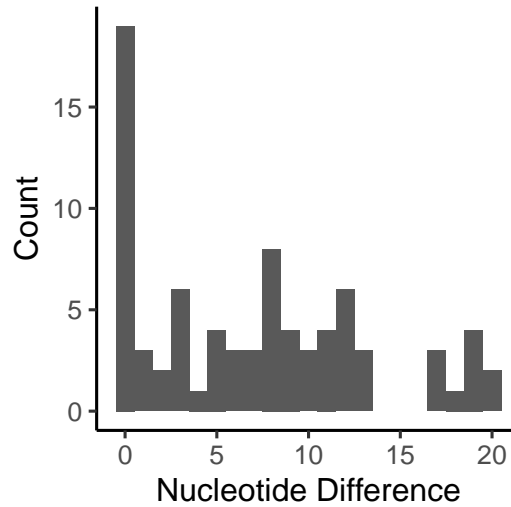
IGHV4-28*02_05

1 sequences assigned
No exact matches.



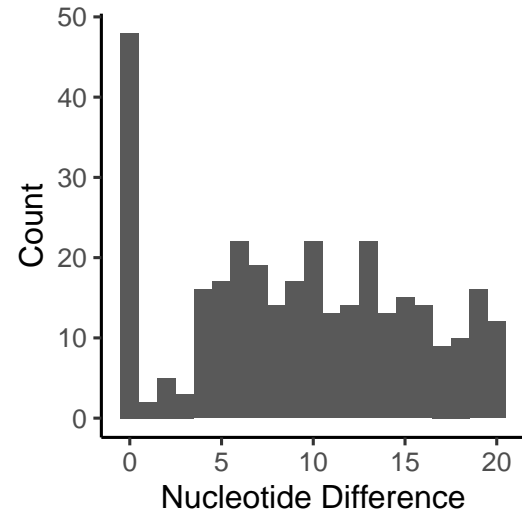
IGHV4-31*03_04

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



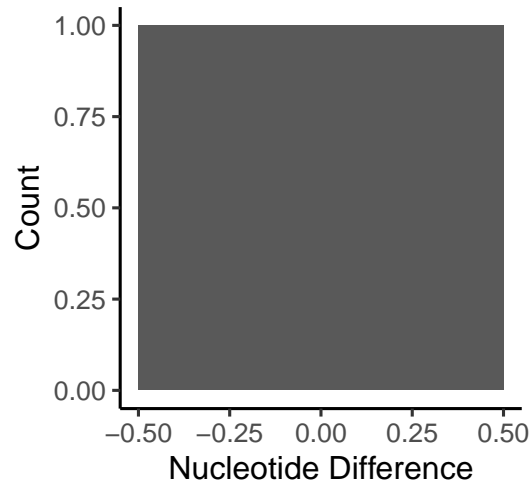
IGHV4-38-2*02

354 sequences assigned
48 (13.6%) exact matches, in which:
45 unique CDR3
6 unique J



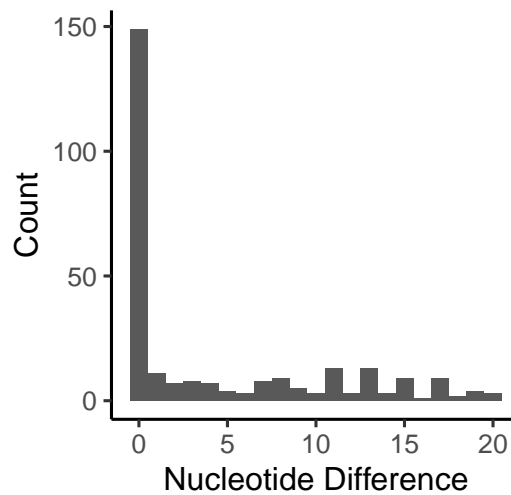
IGHV4-30-2*01

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



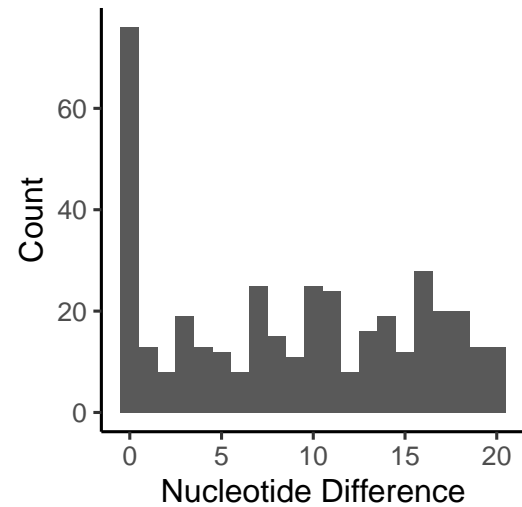
IGHV4-34*01_02

303 sequences assigned
149 (49.2%) exact matches, in which:
142 unique CDR3
7 unique J



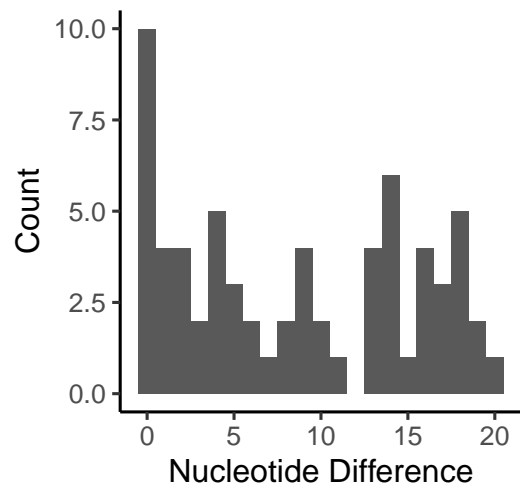
IGHV4-39*07

555 sequences assigned
76 (13.7%) exact matches, in which:
70 unique CDR3
5 unique J



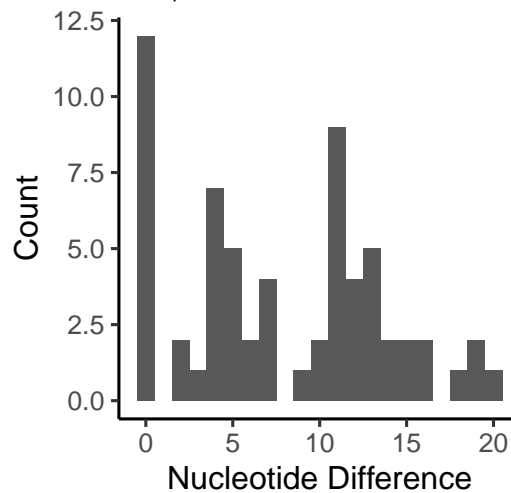
IGHV4-30-4*08

82 sequences assigned
10 (12.2%) exact matches, in which:
9 unique CDR3
4 unique J



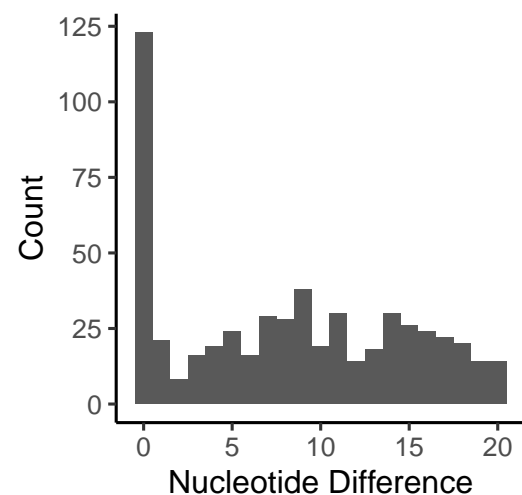
IGHV4-38-2*01

73 sequences assigned
12 (16.4%) exact matches, in which:
12 unique CDR3
3 unique J



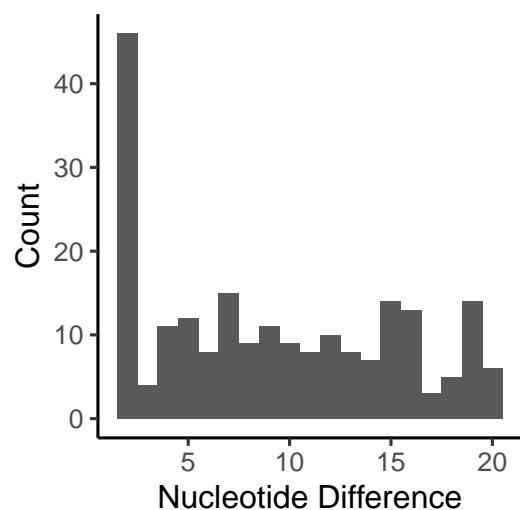
IGHV4-59*11

615 sequences assigned
123 (20%) exact matches, in which:
118 unique CDR3
7 unique J



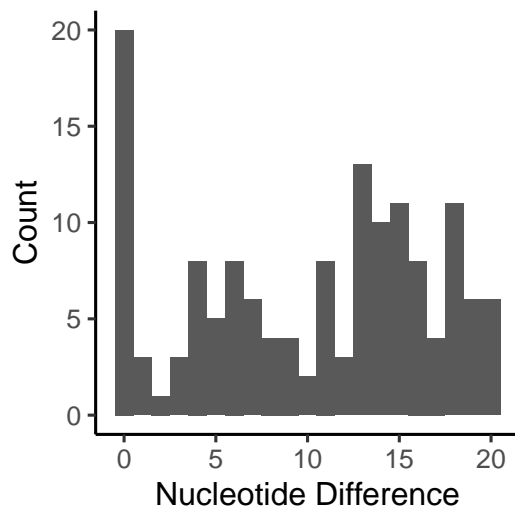
IGHV4-61*09

244 sequences assigned
No exact matches.



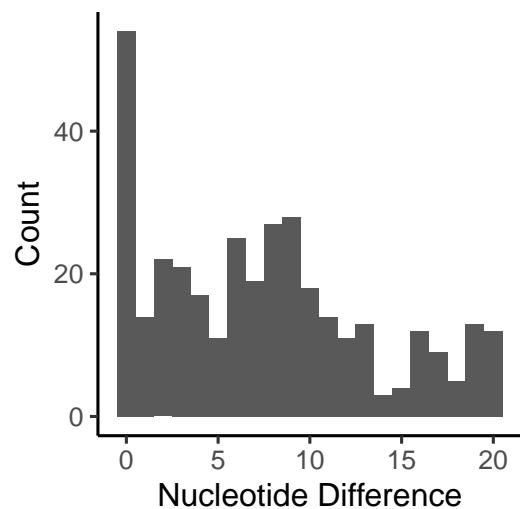
IGHV7-4-1*02

172 sequences assigned
20 (11.6%) exact matches, in which:
20 unique CDR3
4 unique J



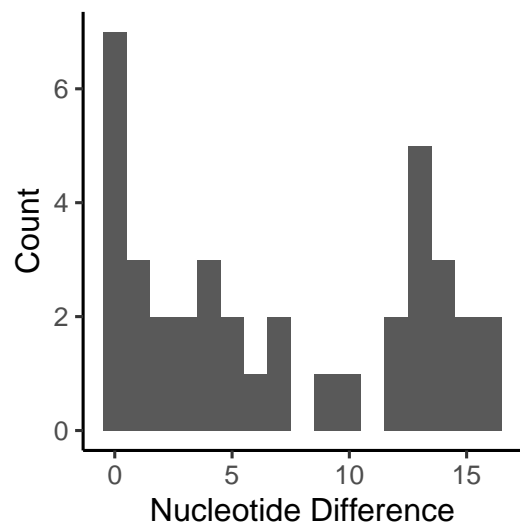
IGHV5-51*01_03

400 sequences assigned
54 (13.5%) exact matches, in which:
53 unique CDR3
7 unique J

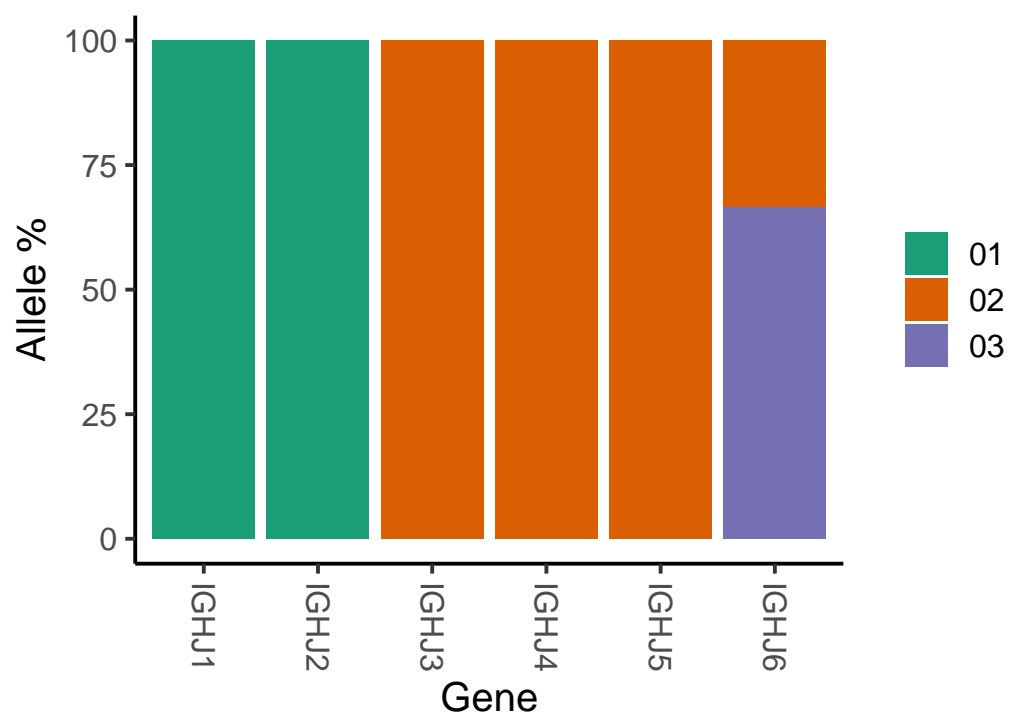


IGHV6-1*01_02

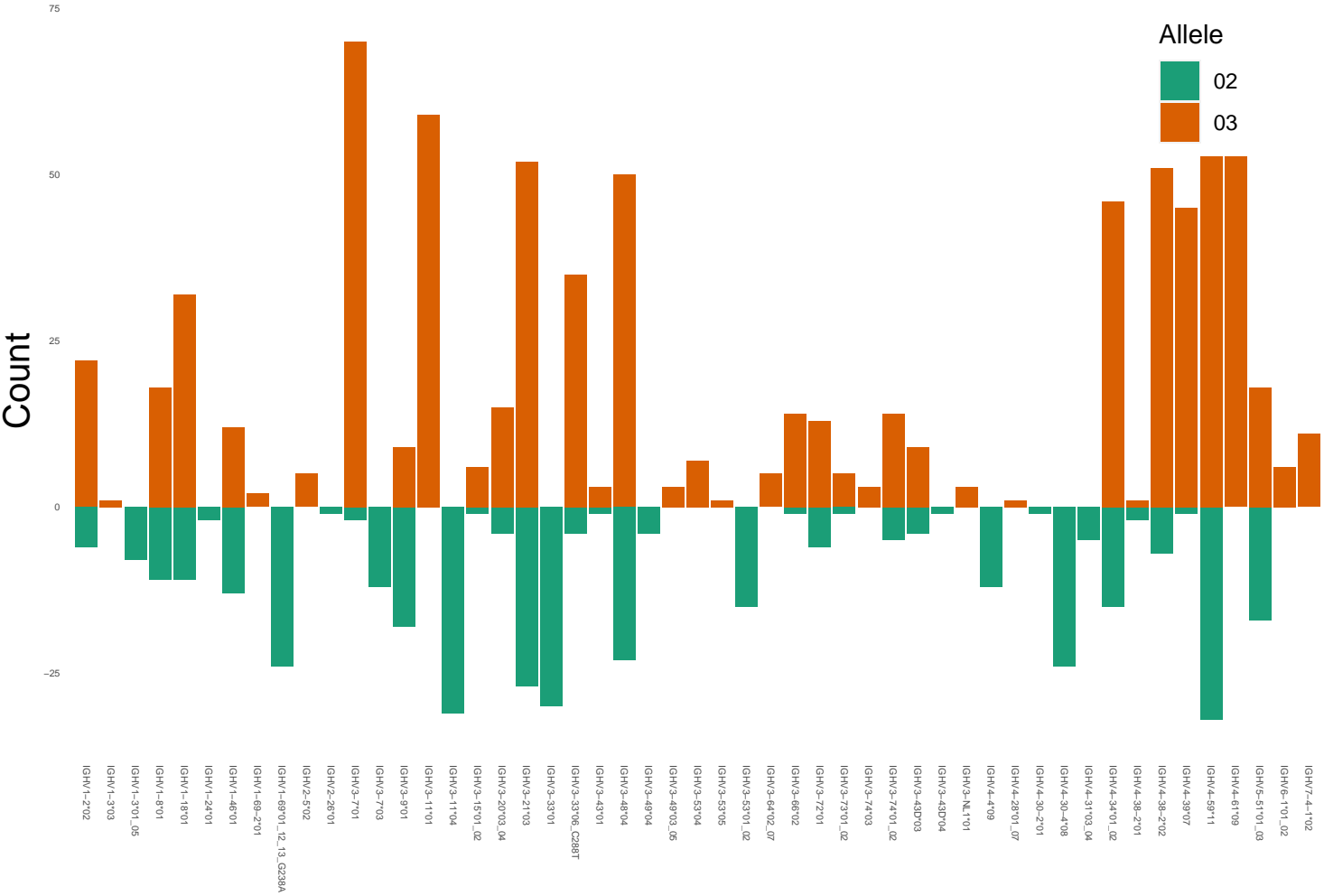
40 sequences assigned
7 (17.5%) exact matches, in which:
7 unique CDR3
4 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Novel sequence(s)IGHV1-59*02_G88AIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4-59*02_G88A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV3-11*06_T300CIGHV4-38-2*02_A70GIGHV4-39*02_C258GIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4-39*02_C258GIGHV4-59*02_G88AIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4-59*02_G88AIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV4-59*02_G88AIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning – no inferred sequences found.