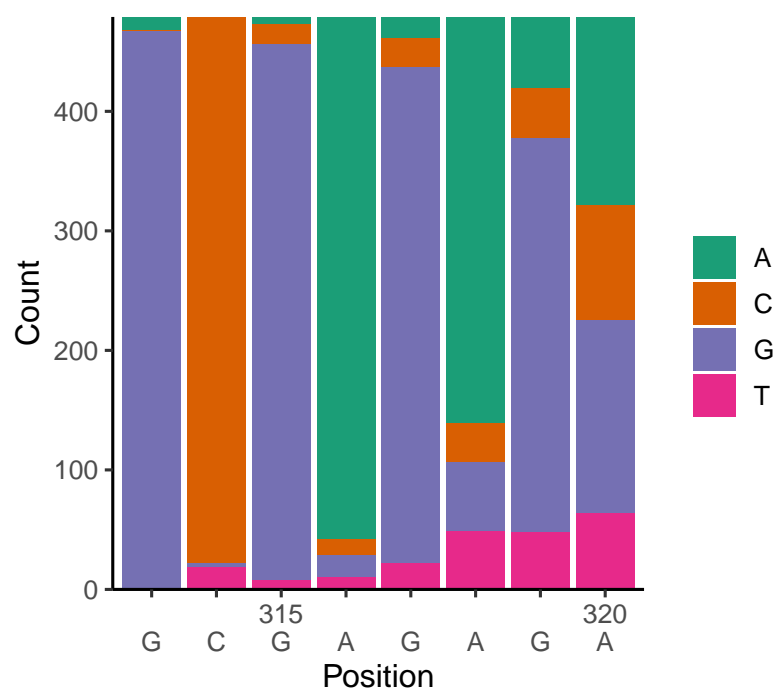
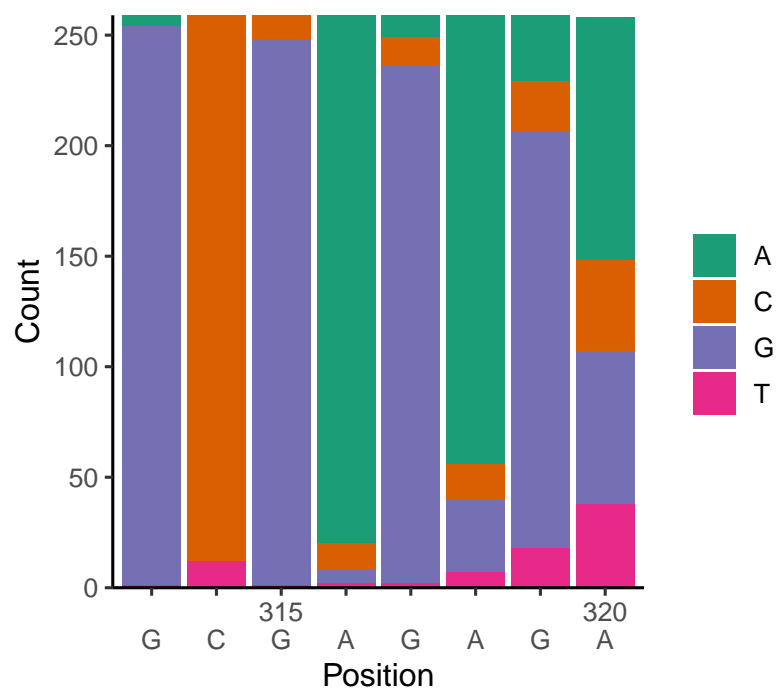


Gene IGHV1-69*01_12_13_G238A



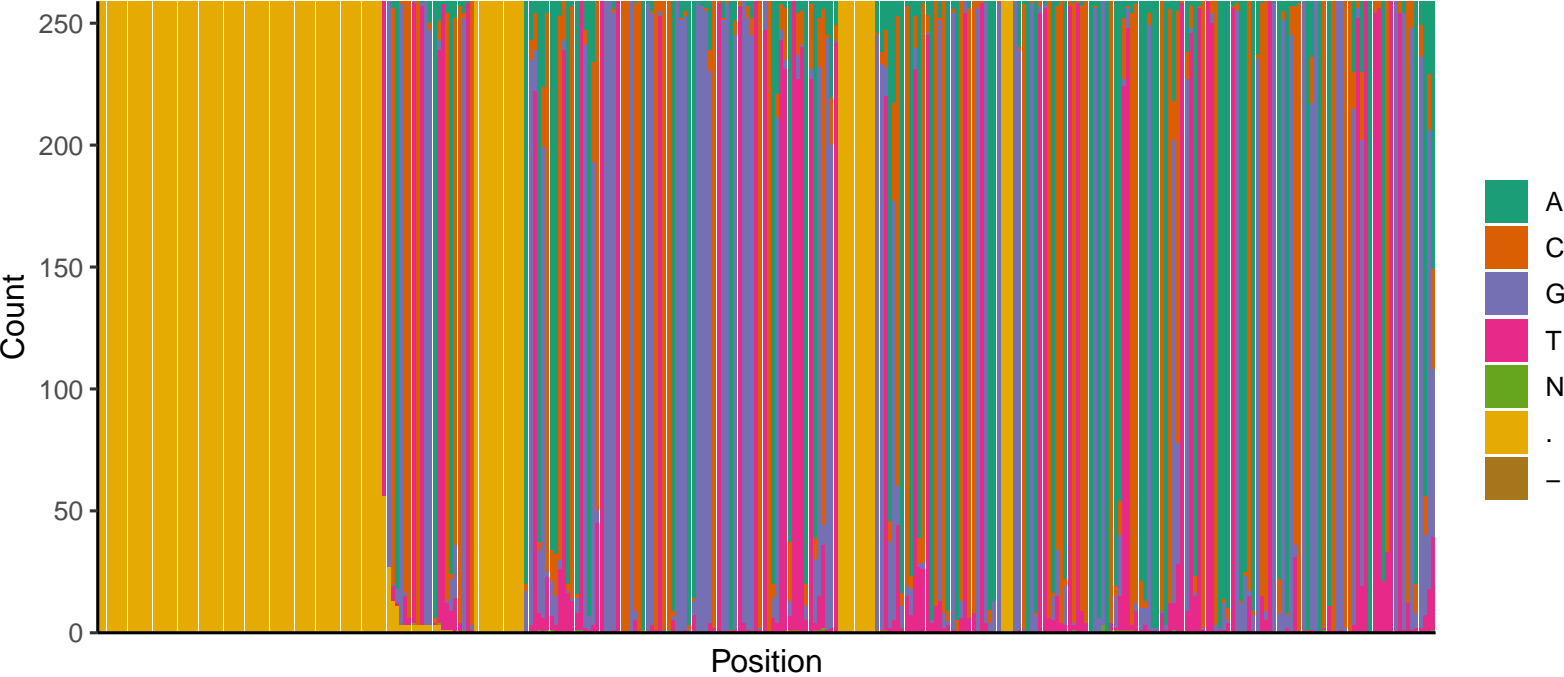
Gene IGHV3-66*01_T300C



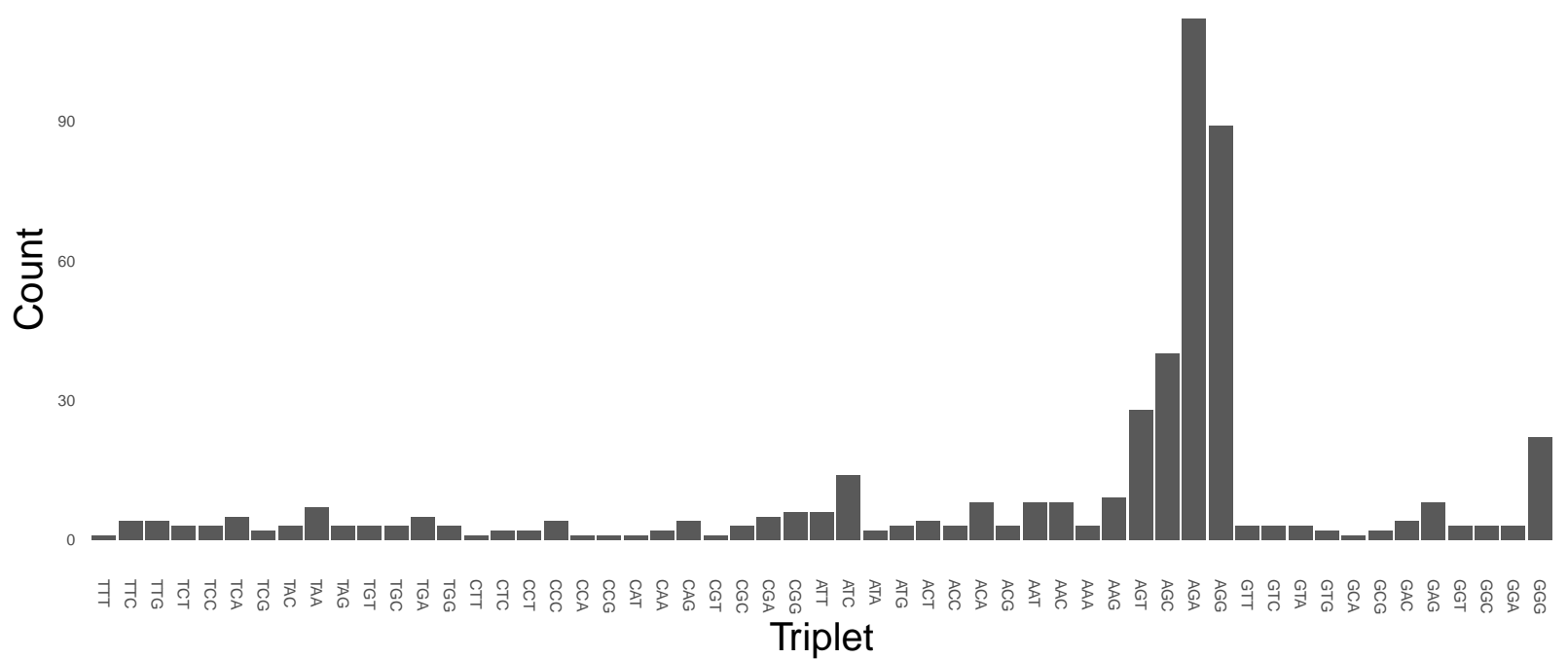
Gene IGHV1-69*01_12_13_G238A



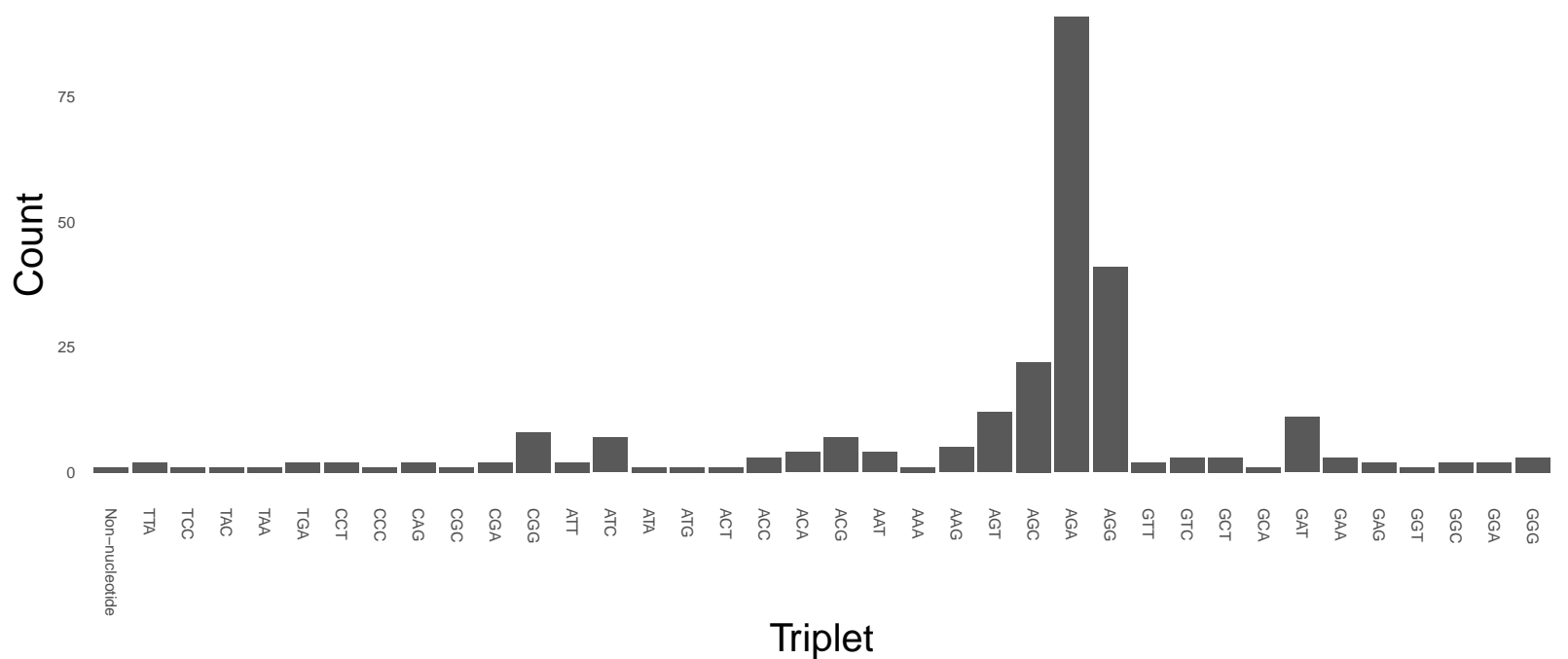
Gene IGHV3-66*01_T300C



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

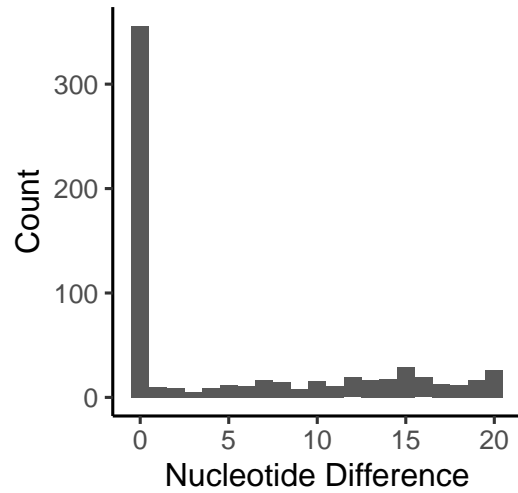


IGHV3-66*01_T300C- Final 3 nucleotides as a triplet



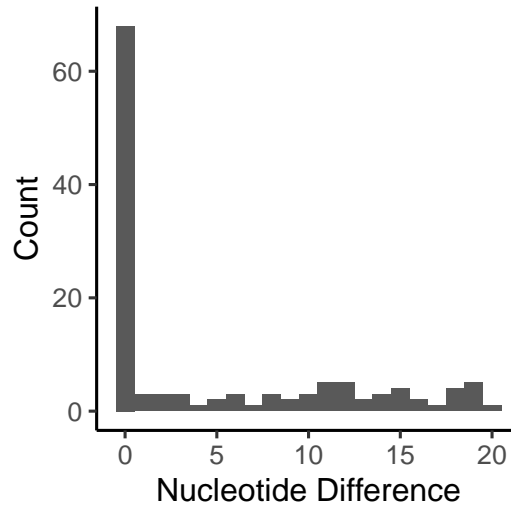
IGHV1-2*02

818 sequences assigned
356 (43.5%) exact matches, in which:
356 unique CDR3
6 unique J



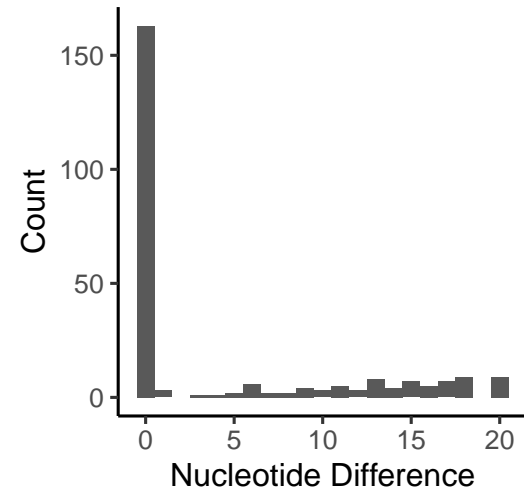
IGHV1-3*01_05

181 sequences assigned
68 (37.6%) exact matches, in which:
68 unique CDR3
4 unique J



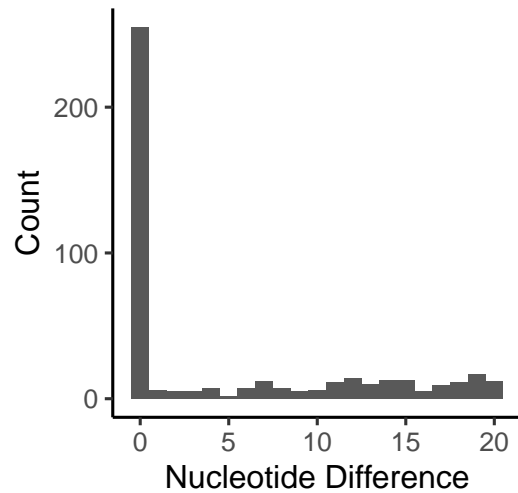
IGHV1-24*01

357 sequences assigned
163 (45.7%) exact matches, in which:
163 unique CDR3
7 unique J



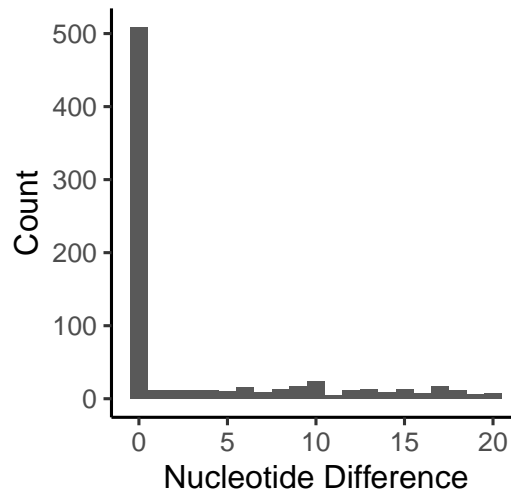
IGHV1-2*06

595 sequences assigned
255 (42.9%) exact matches, in which:
255 unique CDR3
7 unique J



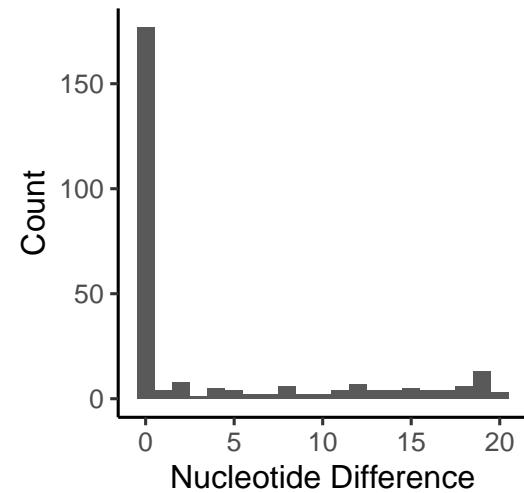
IGHV1-8*01

845 sequences assigned
509 (60.2%) exact matches, in which:
509 unique CDR3
7 unique J



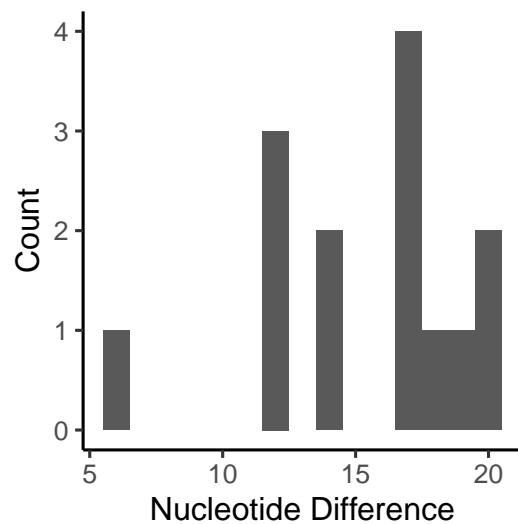
IGHV1-46*01

326 sequences assigned
177 (54.3%) exact matches, in which:
177 unique CDR3
6 unique J



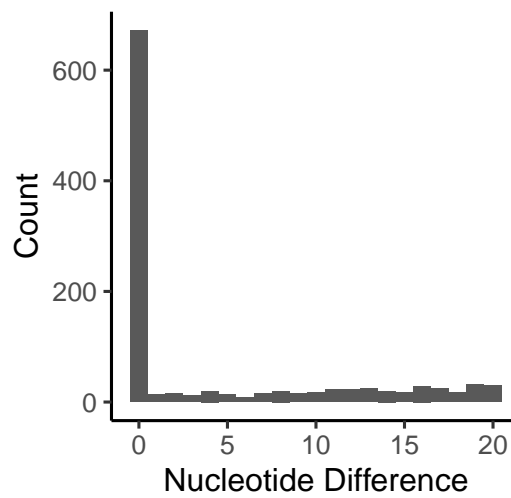
IGHV1-3*04

24 sequences assigned
No exact matches.



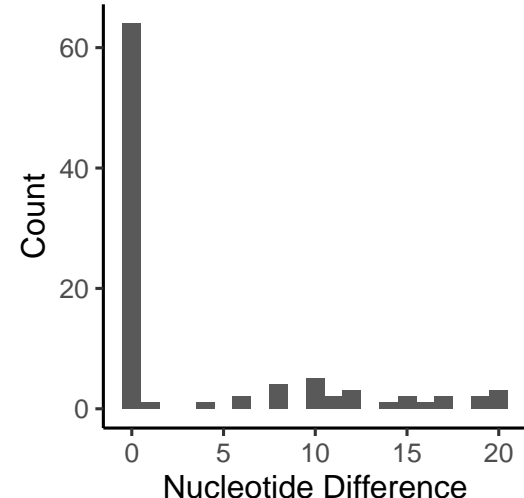
IGHV1-18*01

1369 sequences assigned
672 (49.1%) exact matches, in which:
672 unique CDR3
7 unique J



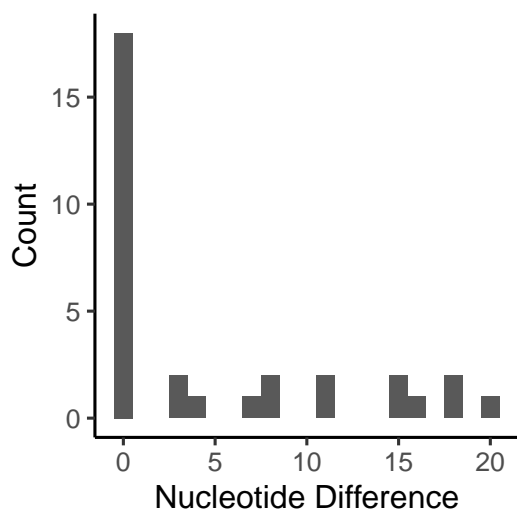
IGHV1-46*03

113 sequences assigned
64 (56.6%) exact matches, in which:
64 unique CDR3
6 unique J



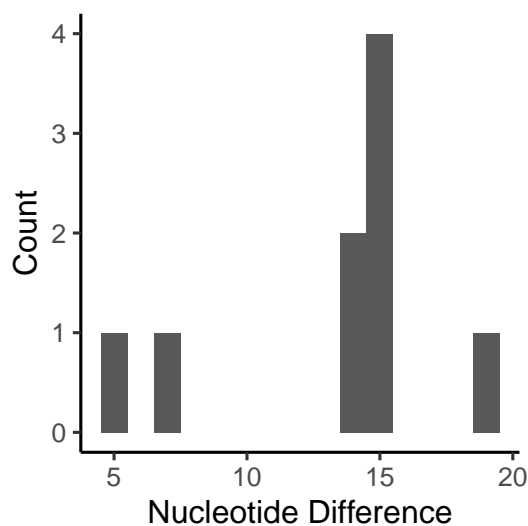
IGHV1-58*02

41 sequences assigned
18 (43.9%) exact matches, in which:
18 unique CDR3
5 unique J



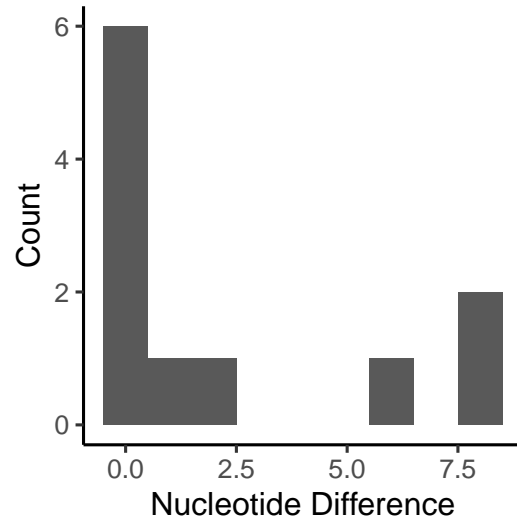
IGHV1-69D*01

39 sequences assigned
No exact matches.



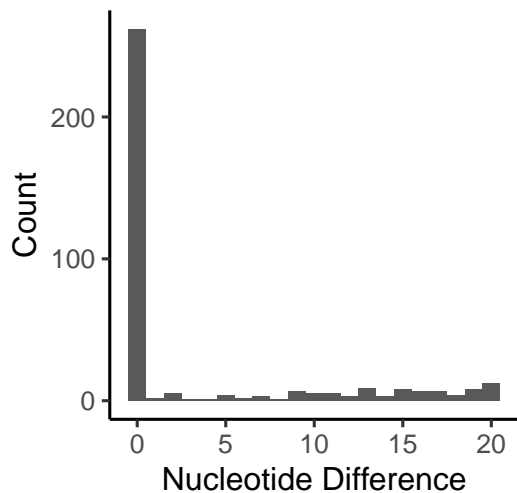
IGHV2-26*02

14 sequences assigned
6 (42.9%) exact matches, in which:
6 unique CDR3
2 unique J



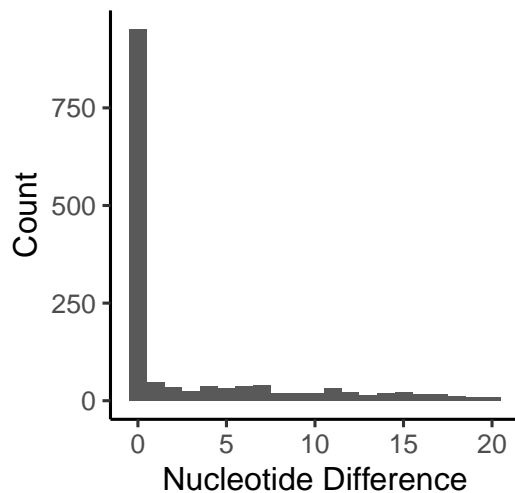
IGHV1-69*01_12_13_G2

479 sequences assigned
262 (54.7%) exact matches, in which:
262 unique CDR3
6 unique J



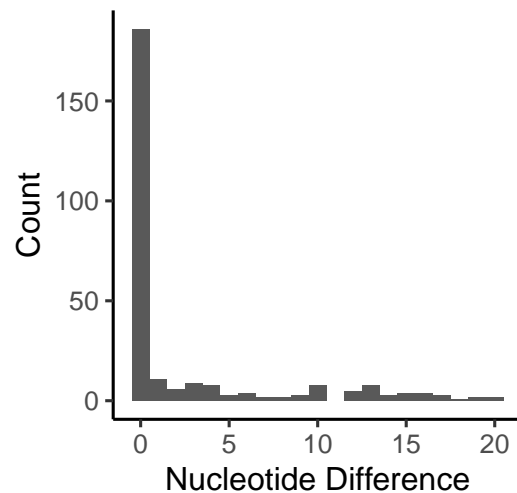
IGHV2-5*02

1532 sequences assigned
952 (62.1%) exact matches, in which:
950 unique CDR3
7 unique J



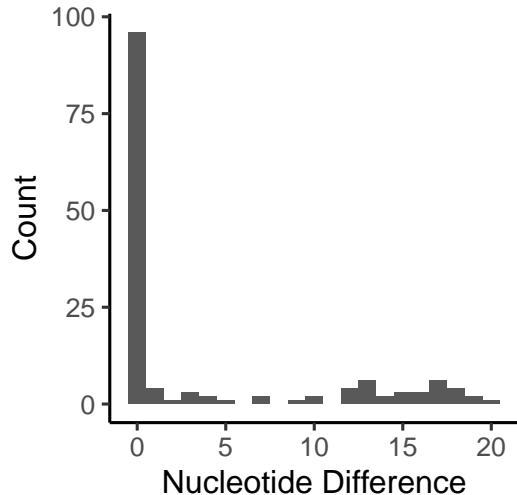
IGHV2-70*11_15

292 sequences assigned
186 (63.7%) exact matches, in which:
185 unique CDR3
7 unique J



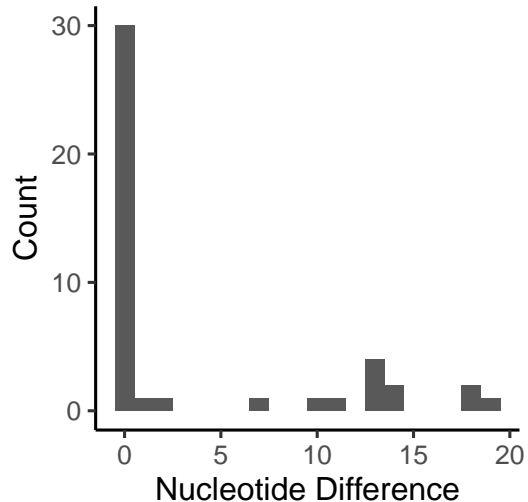
IGHV1-69*04_09

216 sequences assigned
96 (44.4%) exact matches, in which:
96 unique CDR3
6 unique J



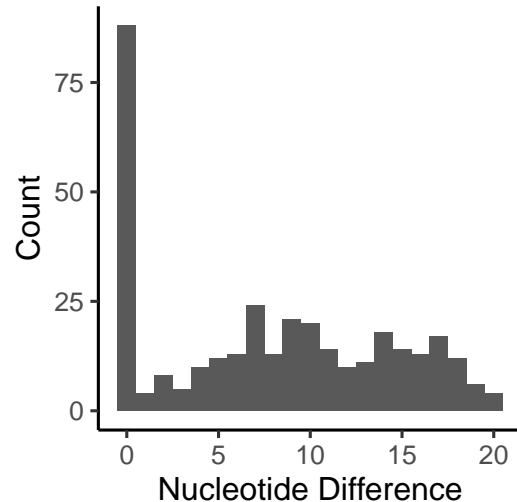
IGHV2-26*01

46 sequences assigned
30 (65.2%) exact matches, in which:
30 unique CDR3
5 unique J



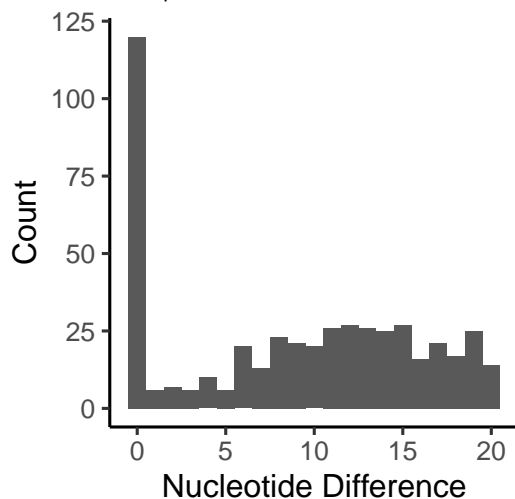
IGHV3-7*01

397 sequences assigned
88 (22.2%) exact matches, in which:
88 unique CDR3
5 unique J



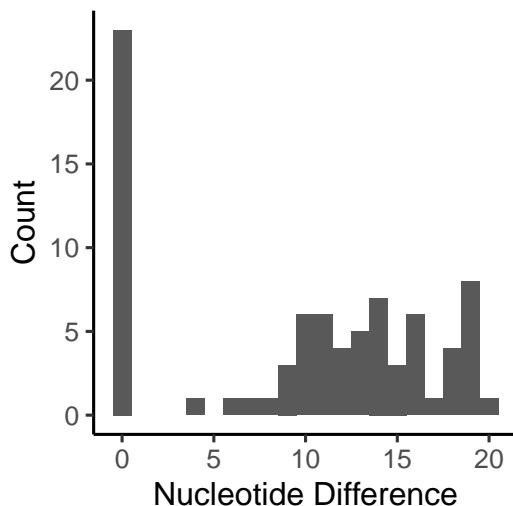
IGHV3-7*03

554 sequences assigned
120 (21.7%) exact matches, in which:
119 unique CDR3
6 unique J



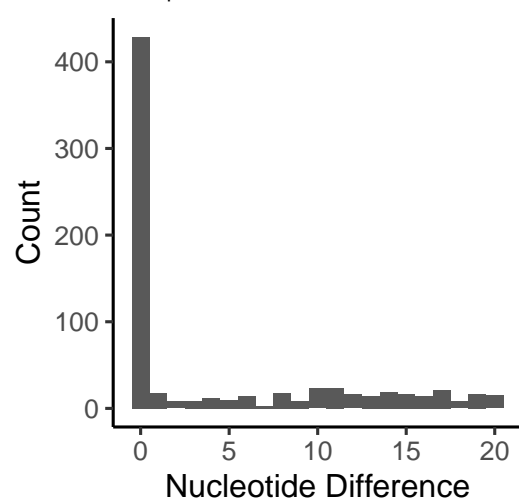
IGHV3-13*01

112 sequences assigned
23 (20.5%) exact matches, in which:
23 unique CDR3
6 unique J



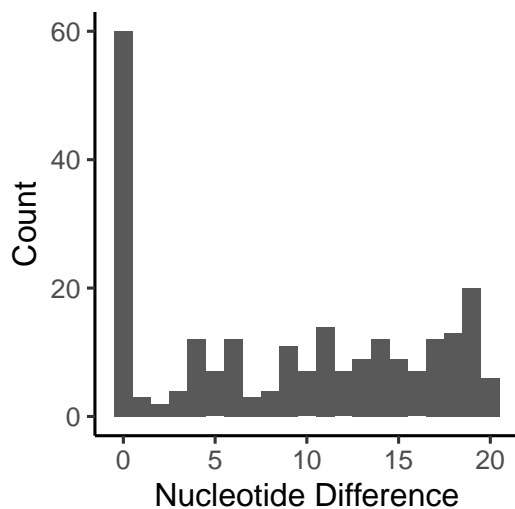
IGHV3-21*01_02

898 sequences assigned
429 (47.8%) exact matches, in which:
421 unique CDR3
7 unique J



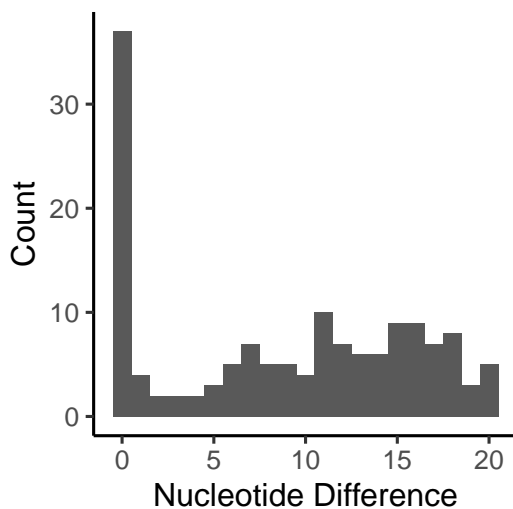
IGHV3-9*01

329 sequences assigned
60 (18.2%) exact matches, in which:
60 unique CDR3
6 unique J



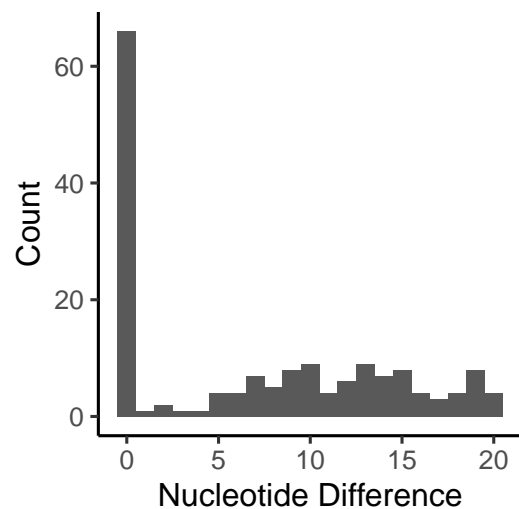
IGHV3-15*01_02

203 sequences assigned
37 (18.2%) exact matches, in which:
37 unique CDR3
6 unique J



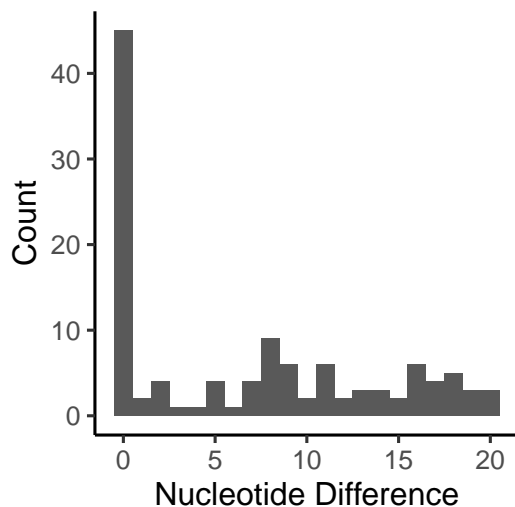
IGHV3-33*01

235 sequences assigned
66 (28.1%) exact matches, in which:
66 unique CDR3
6 unique J



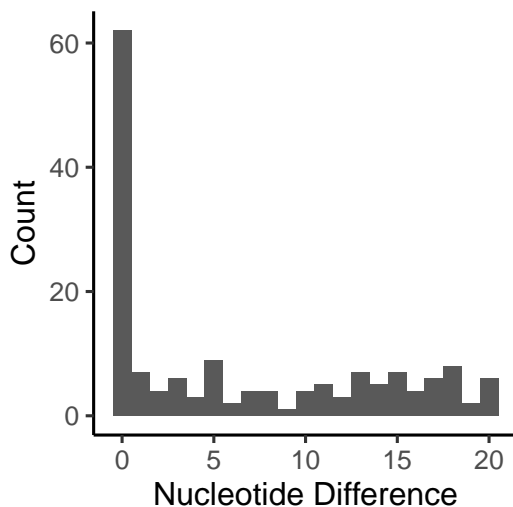
IGHV3-11*01

186 sequences assigned
45 (24.2%) exact matches, in which:
44 unique CDR3
6 unique J



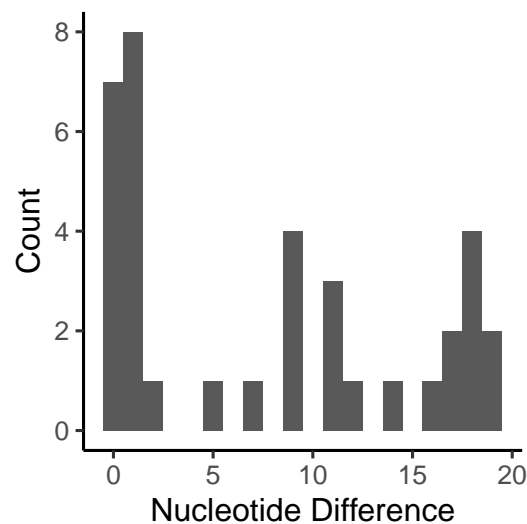
IGHV3-20*03_04

201 sequences assigned
62 (30.8%) exact matches, in which:
61 unique CDR3
5 unique J



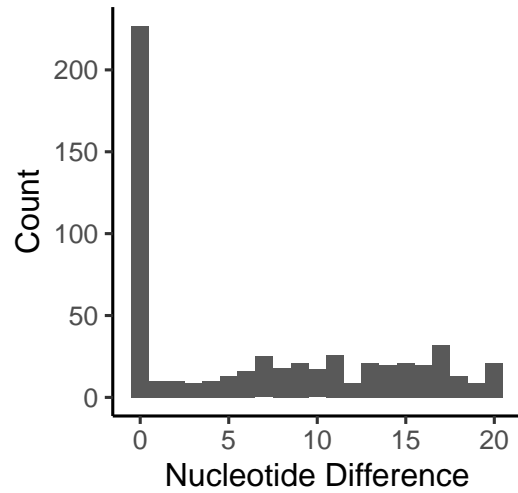
IGHV3-43*01

49 sequences assigned
7 (14.3%) exact matches, in which:
7 unique CDR3
3 unique J



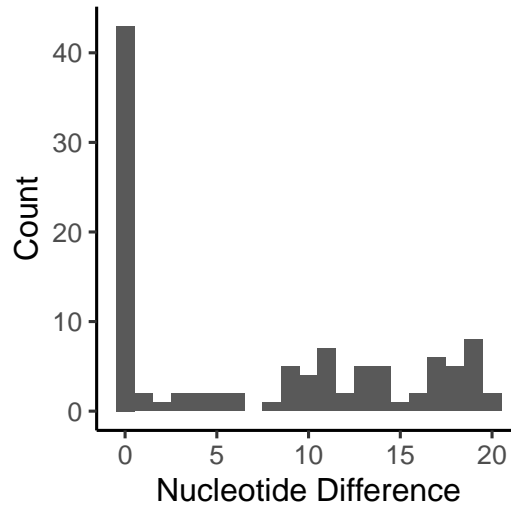
IGHV3-48*01

775 sequences assigned
227 (29.3%) exact matches, in which:
226 unique CDR3
7 unique J



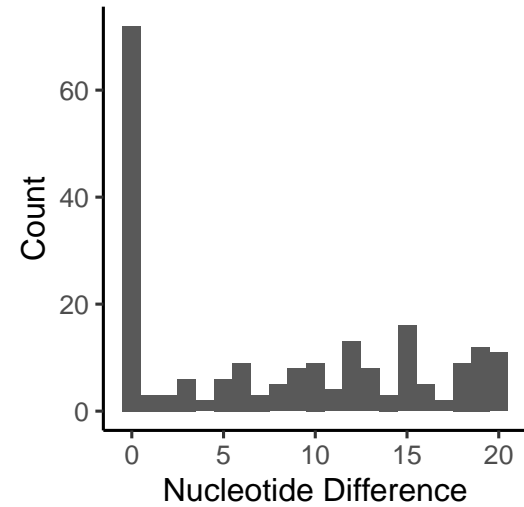
IGHV3-64*01

133 sequences assigned
43 (32.3%) exact matches, in which:
40 unique CDR3
7 unique J



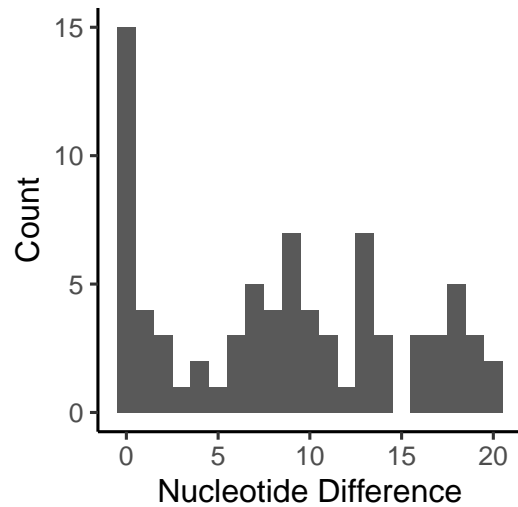
IGHV3-66*01_T300C

259 sequences assigned
72 (27.8%) exact matches, in which:
72 unique CDR3
6 unique J



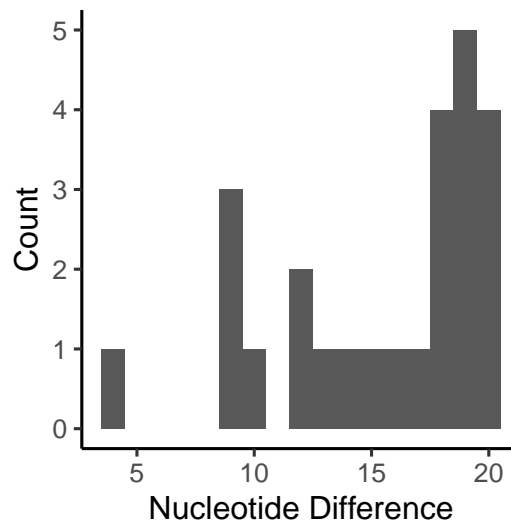
IGHV3-49*03_05

118 sequences assigned
15 (12.7%) exact matches, in which:
15 unique CDR3
5 unique J



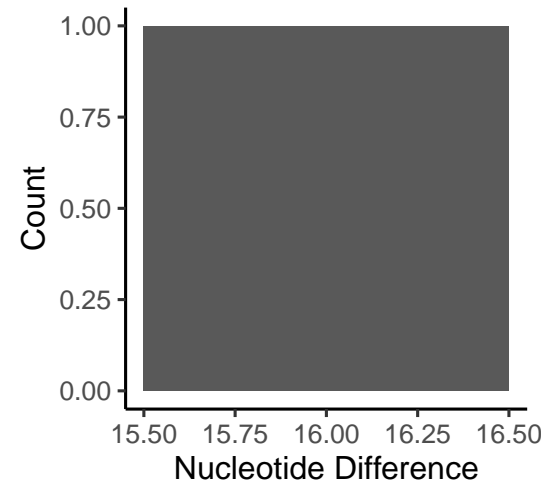
IGHV3-64*02_07

37 sequences assigned
No exact matches.



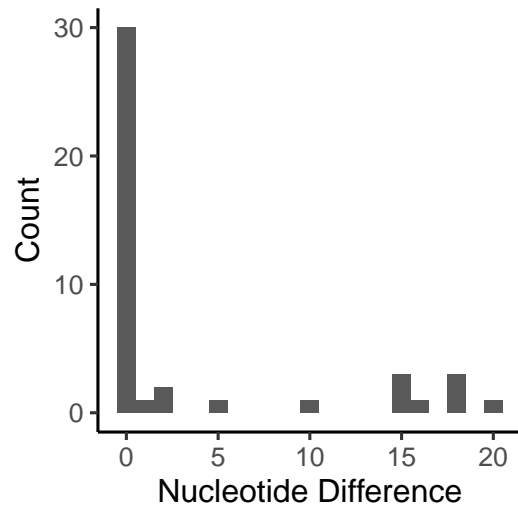
IGHV3-69-1*01

3 sequences assigned
No exact matches.



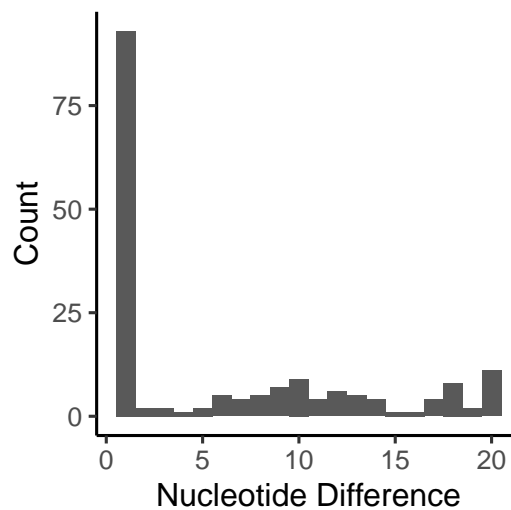
IGHV3-53*04

52 sequences assigned
30 (57.7%) exact matches, in which:
28 unique CDR3
5 unique J



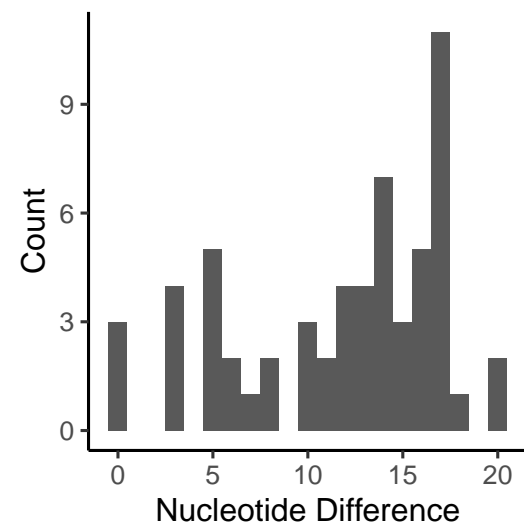
IGHV3-66*01

247 sequences assigned
No exact matches.



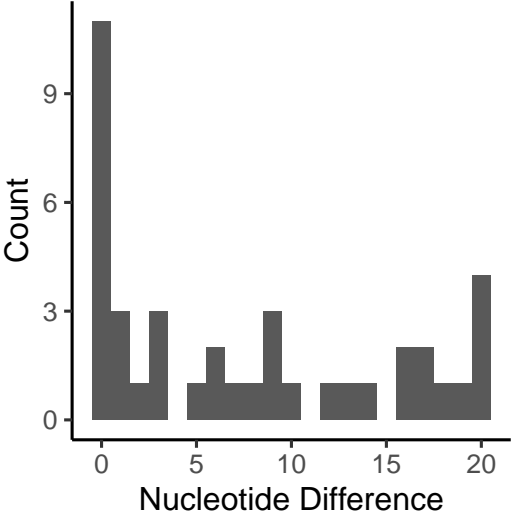
IGHV3-72*01

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



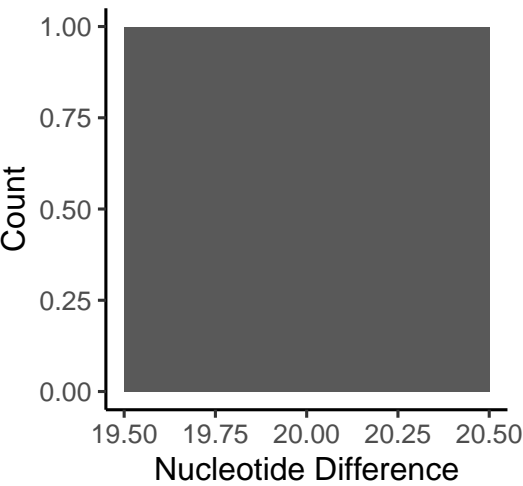
IGHV3-73*01_02

54 sequences assigned
11 (20.4%) exact matches, in which:
11 unique CDR3
4 unique J



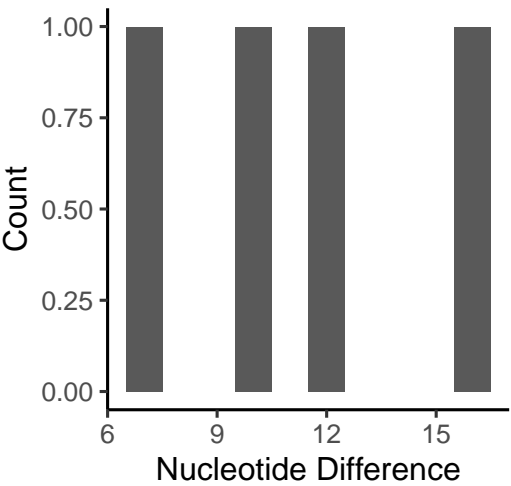
IGHV3-64D*06

1 sequences assigned
No exact matches.



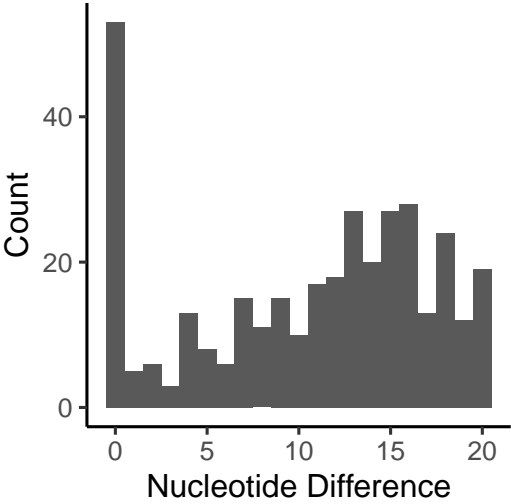
IGHV4-28*06

8 sequences assigned
No exact matches.



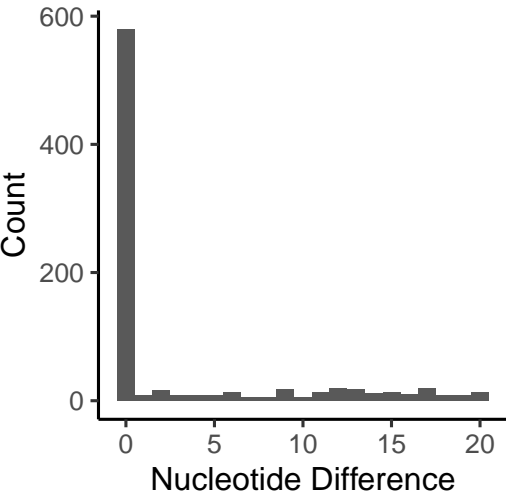
IGHV3-74*01_02

484 sequences assigned
53 (11%) exact matches, in which:
53 unique CDR3
6 unique J



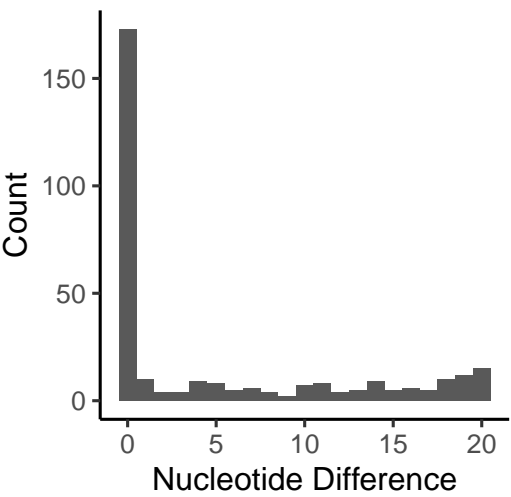
IGHV4-4*07

968 sequences assigned
580 (59.9%) exact matches, in which:
578 unique CDR3
6 unique J



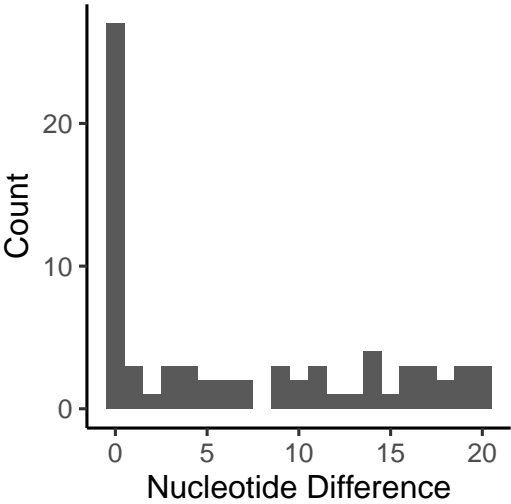
IGHV4-31*03_04

461 sequences assigned
173 (37.5%) exact matches, in which:
172 unique CDR3
6 unique J



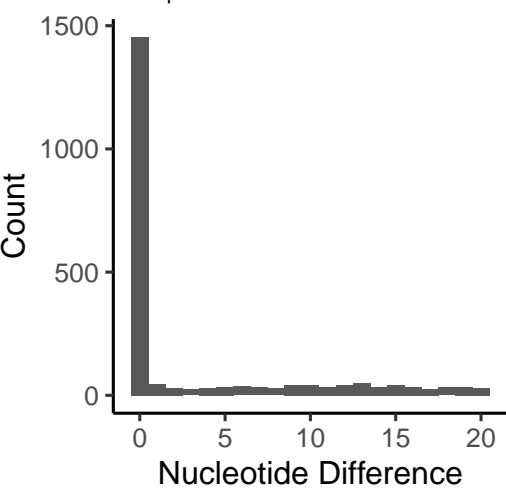
IGHV3-43D*04

95 sequences assigned
27 (28.4%) exact matches, in which:
27 unique CDR3
6 unique J



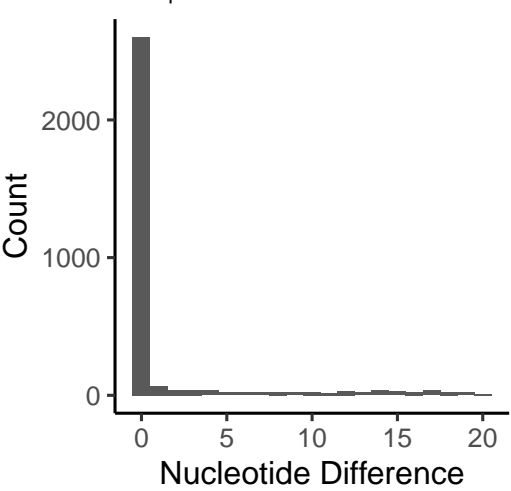
IGHV4-4*09

2512 sequences assigned
1454 (57.9%) exact matches, in which:
1437 unique CDR3
7 unique J



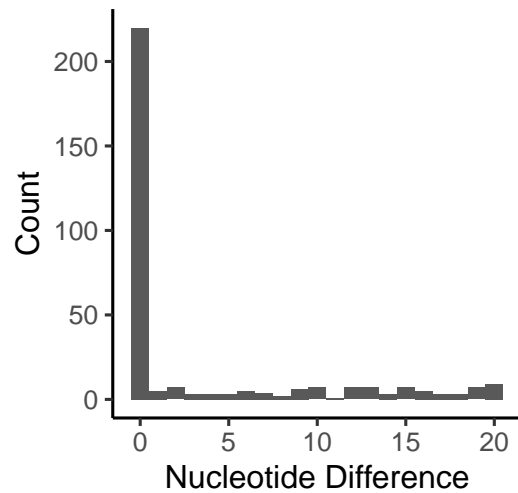
IGHV4-34*01_02

3415 sequences assigned
2602 (76.2%) exact matches, in which:
2589 unique CDR3
7 unique J



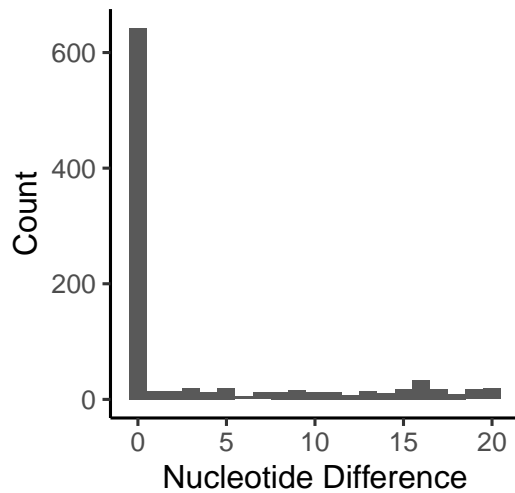
IGHV4-38-2*01

361 sequences assigned
220 (60.9%) exact matches, in which:
220 unique CDR3
6 unique J



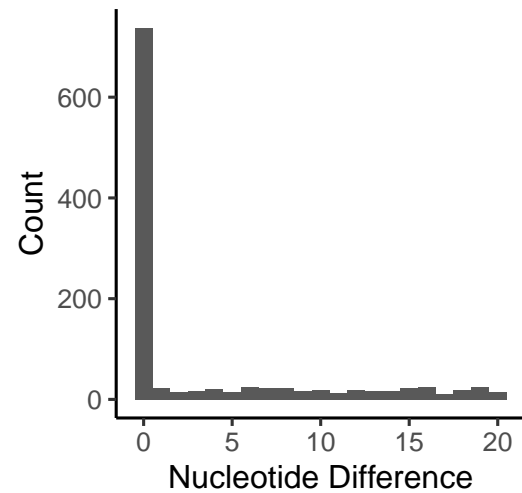
IGHV4-39*01_05

1220 sequences assigned
643 (52.7%) exact matches, in which:
640 unique CDR3
6 unique J



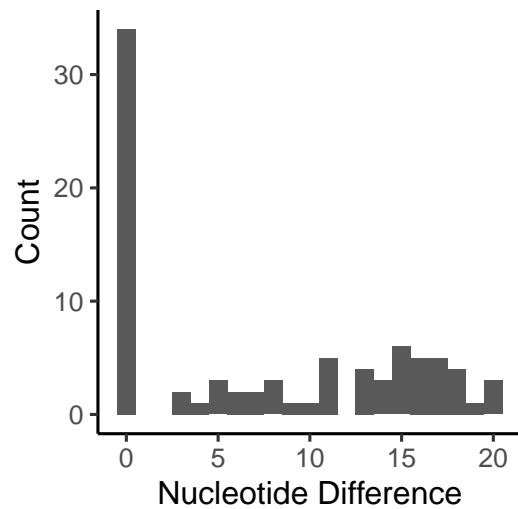
IGHV4-59*08

1351 sequences assigned
738 (54.6%) exact matches, in which:
729 unique CDR3
7 unique J



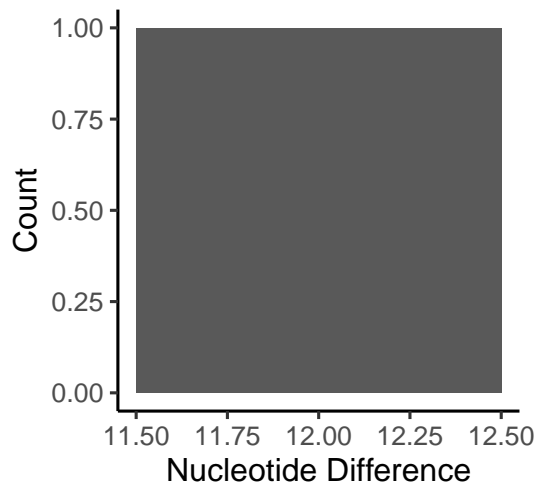
IGHV4-38-2*02

150 sequences assigned
34 (22.7%) exact matches, in which:
34 unique CDR3
5 unique J



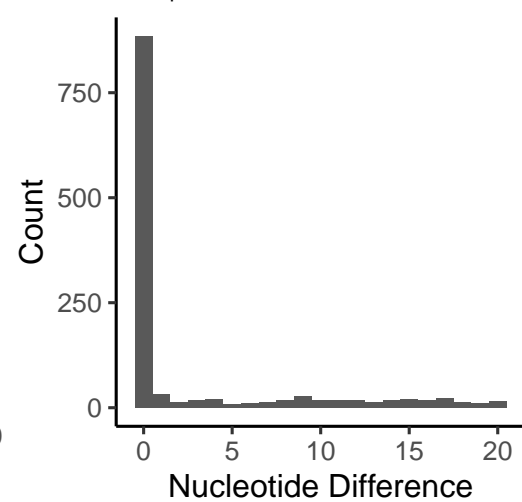
IGHV4-55*09

11 sequences assigned
No exact matches.



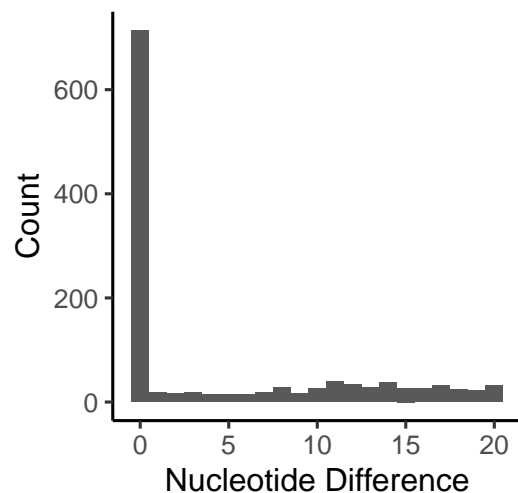
IGHV4-59*01_07

1494 sequences assigned
885 (59.2%) exact matches, in which:
878 unique CDR3
6 unique J



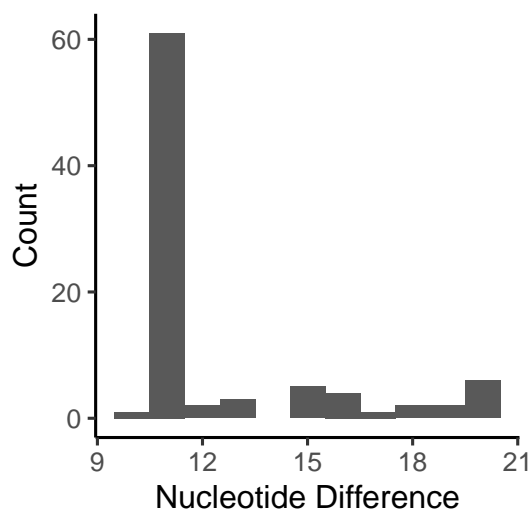
IGHV4-39*07

1529 sequences assigned
714 (46.7%) exact matches, in which:
709 unique CDR3
6 unique J



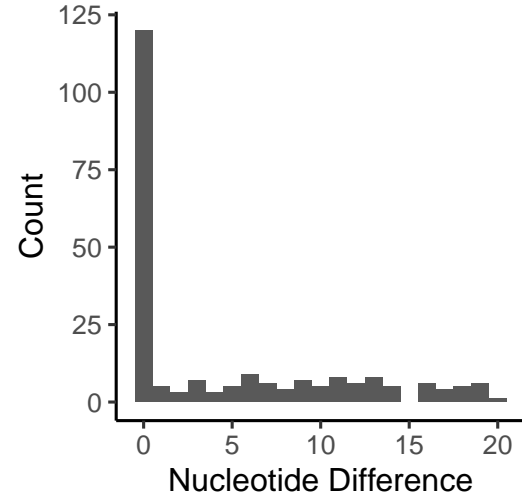
IGHV4-55*02_04_08

191 sequences assigned
No exact matches.



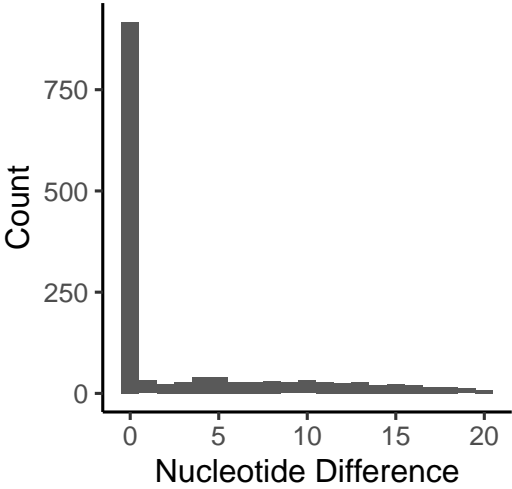
IGHV5-51*01_03

267 sequences assigned
120 (44.9%) exact matches, in which:
120 unique CDR3
7 unique J



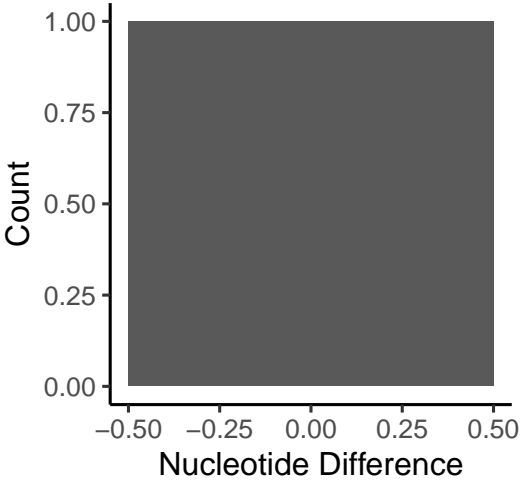
IGHV6-1*01_02

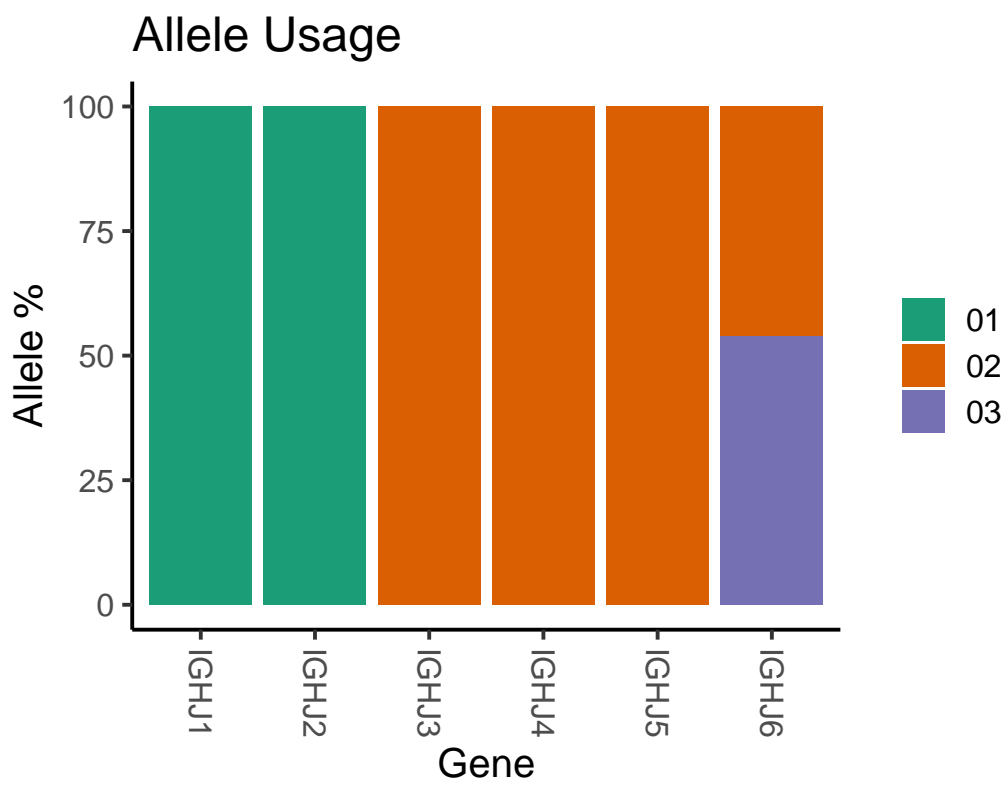
1482 sequences assigned
918 (61.9%) exact matches, in which:
917 unique CDR3
7 unique J



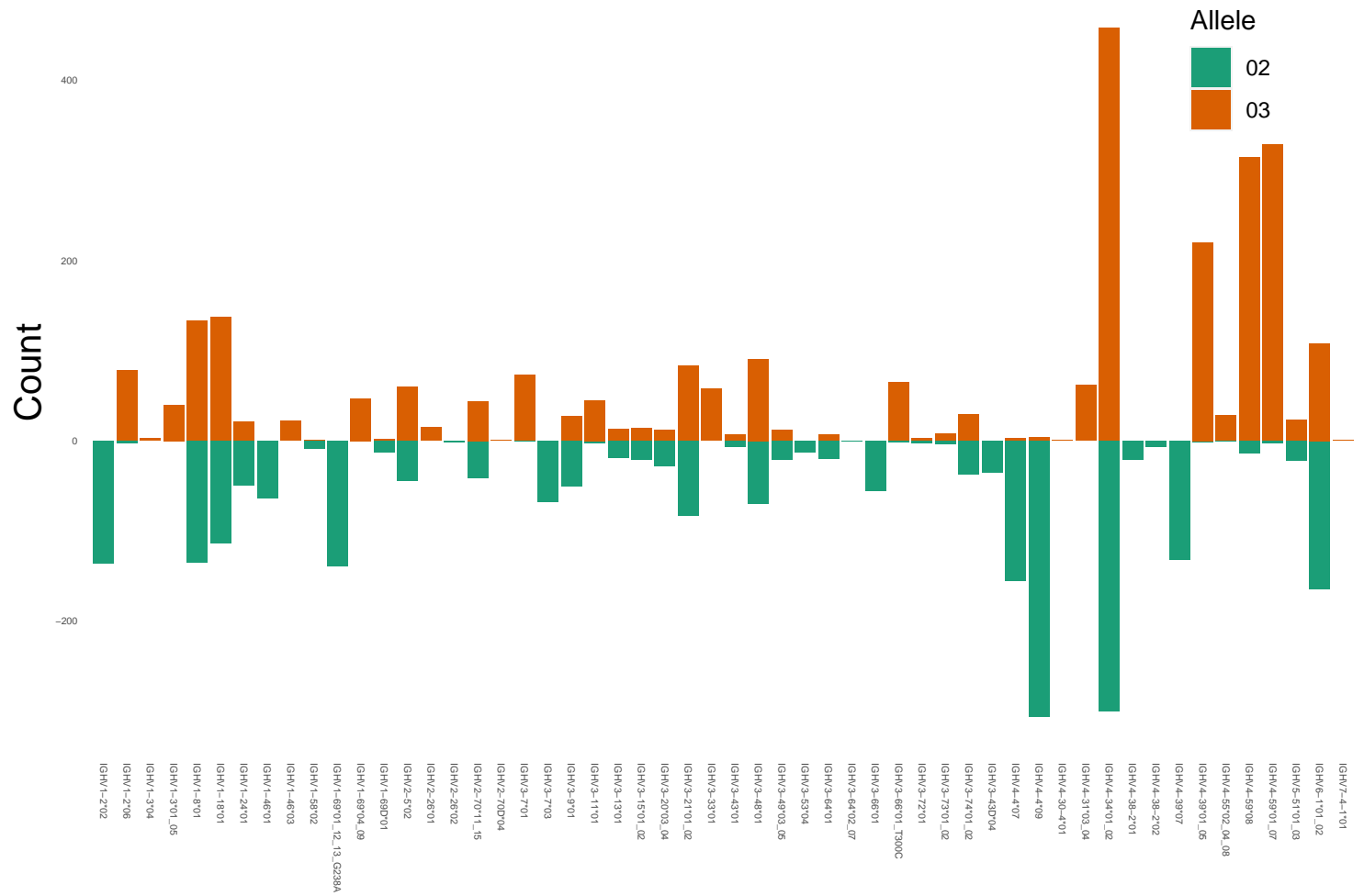
IGHV7-4-1*01

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





Sequence Count byIGHJ6 allele usage



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.

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.

Warning – no inferred sequences found.