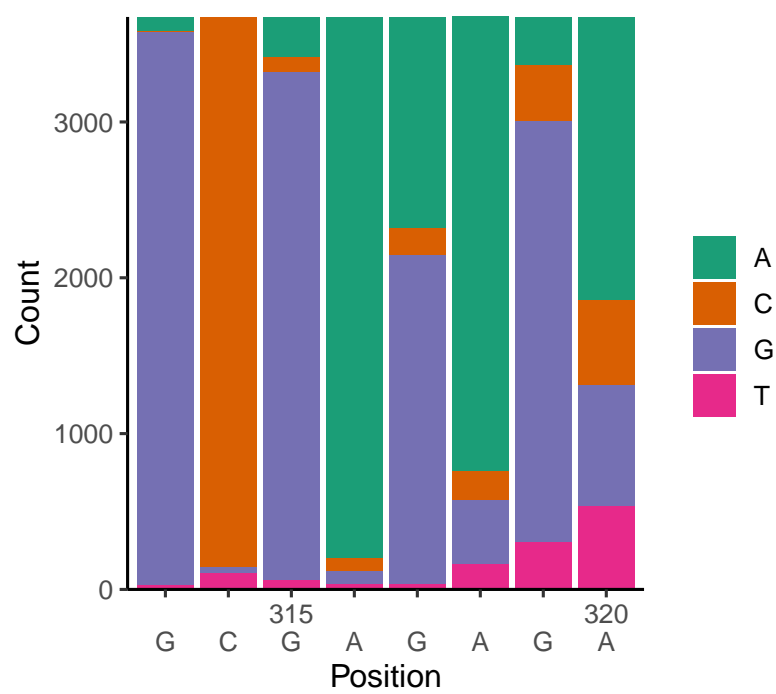
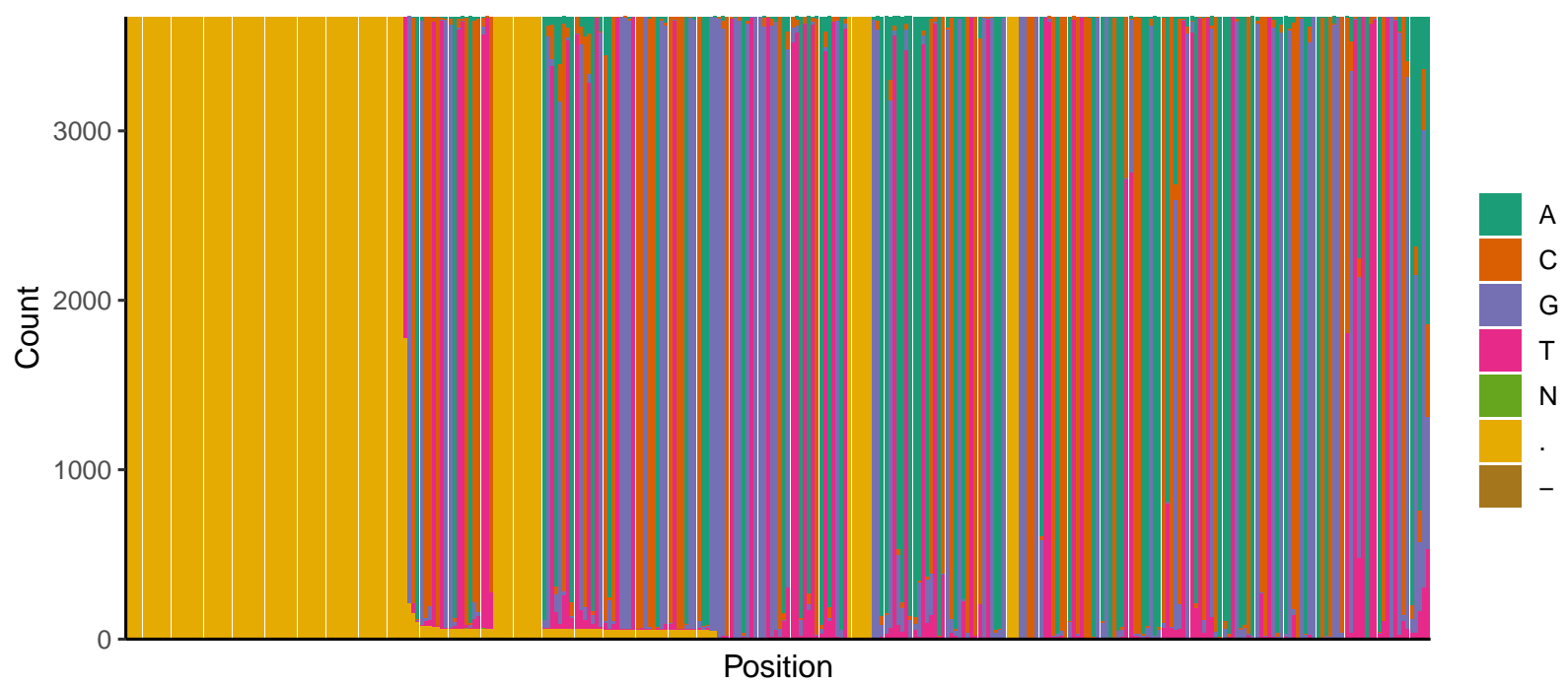


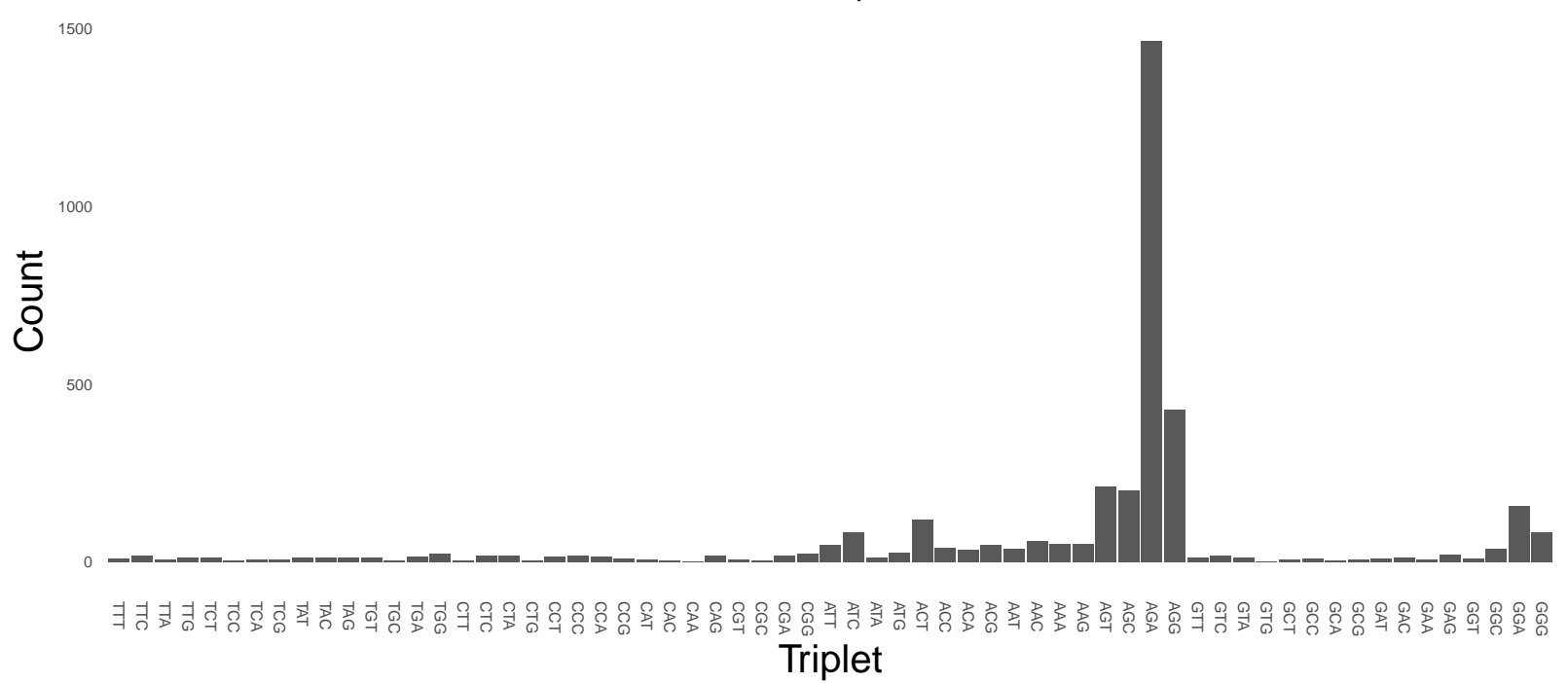
Gene IGHV3-30*04_T288C



Gene IGHV3-30*04_T288C

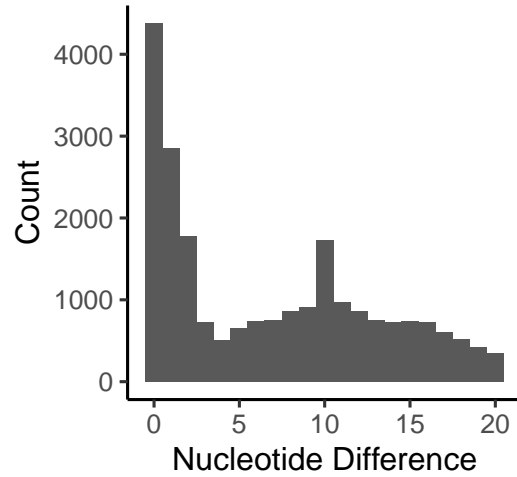


IGHV3-30*04_T288C- Final 3 nucleotides as a triplet



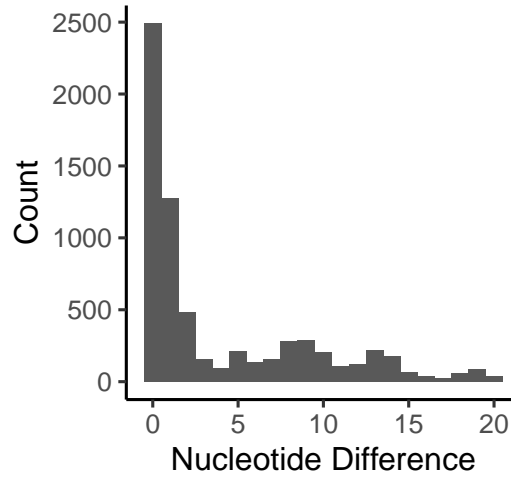
IGHV1-2*02

23953 sequences assigned
4377 (18.3%) exact matches, in which:
3945 unique CDR3
7 unique J



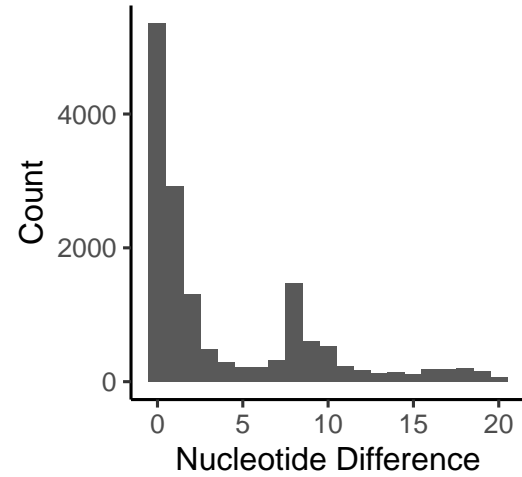
IGHV1-8*01

7247 sequences assigned
2491 (34.4%) exact matches, in which:
2302 unique CDR3
7 unique J



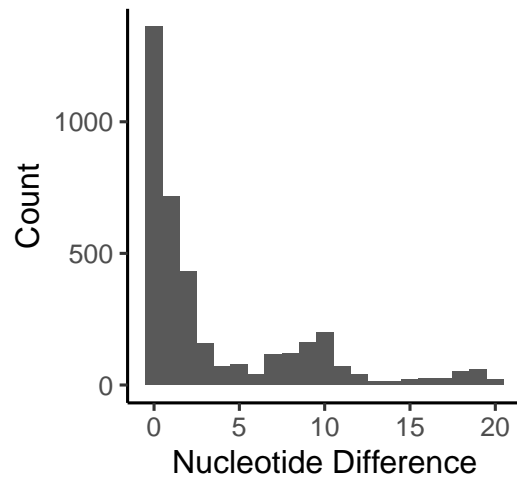
IGHV1-18*04

15889 sequences assigned
5354 (33.7%) exact matches, in which:
4937 unique CDR3
7 unique J



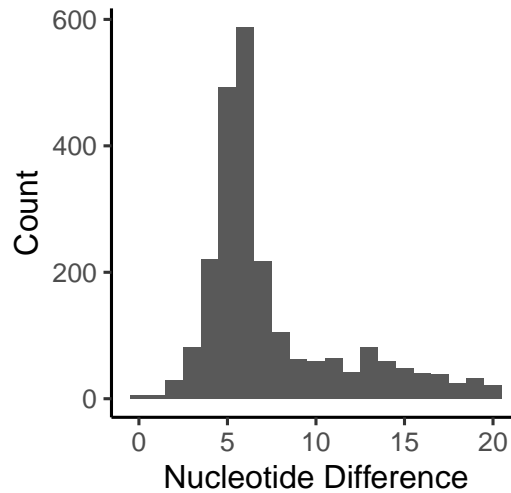
IGHV1-2*04

3875 sequences assigned
1361 (35.1%) exact matches, in which:
1251 unique CDR3
7 unique J



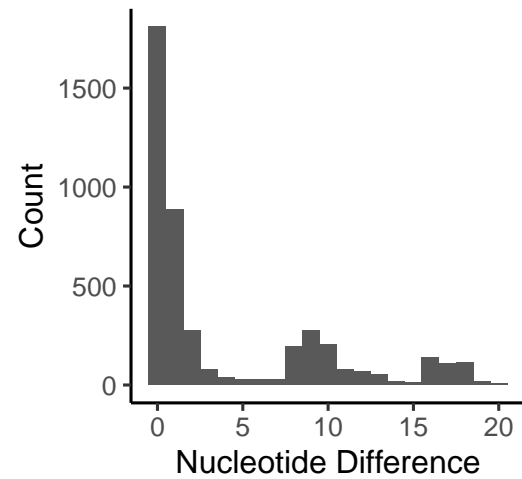
IGHV1-8*02

3075 sequences assigned
5 (0.2%) exact matches, in which:
5 unique CDR3
3 unique J



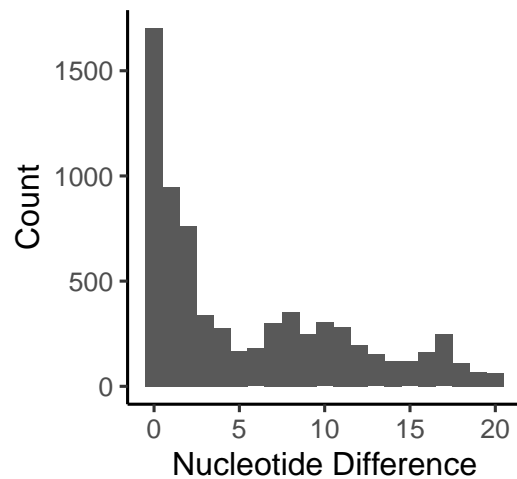
IGHV1-24*01

4503 sequences assigned
1810 (40.2%) exact matches, in which:
1639 unique CDR3
7 unique J



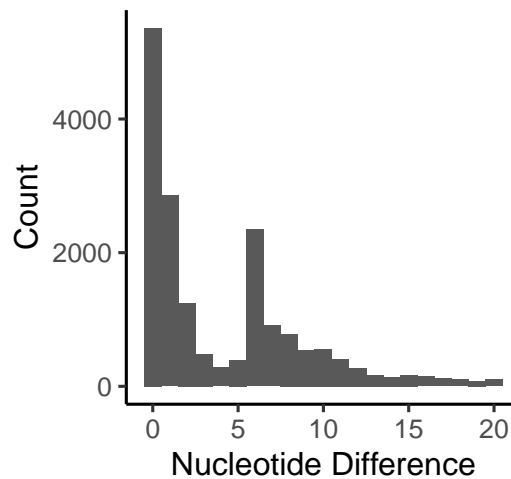
IGHV1-3*01_05

7596 sequences assigned
1703 (22.4%) exact matches, in which:
1526 unique CDR3
7 unique J



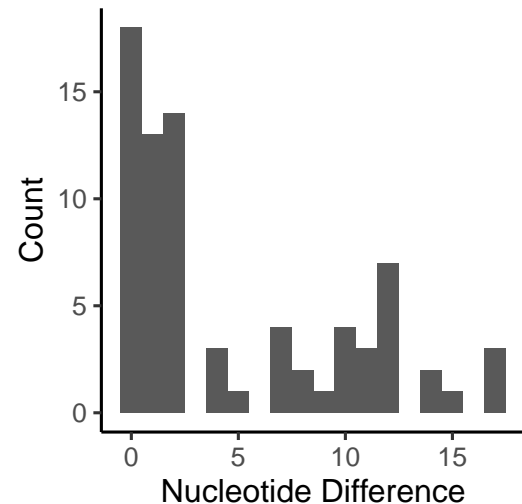
IGHV1-18*01

18385 sequences assigned
5361 (29.2%) exact matches, in which:
4963 unique CDR3
7 unique J



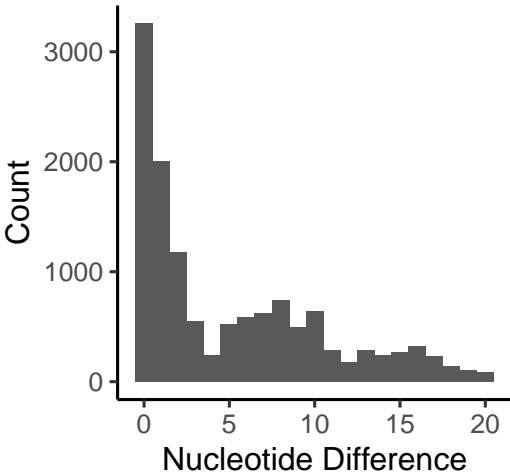
IGHV1-45*02

77 sequences assigned
18 (23.4%) exact matches, in which:
16 unique CDR3
5 unique J



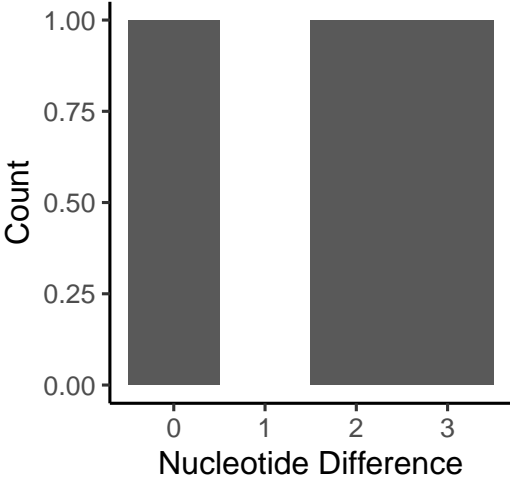
IGHV1-46*01

13479 sequences assigned
3258 (24.2%) exact matches, in which:
2977 unique CDR3
7 unique J



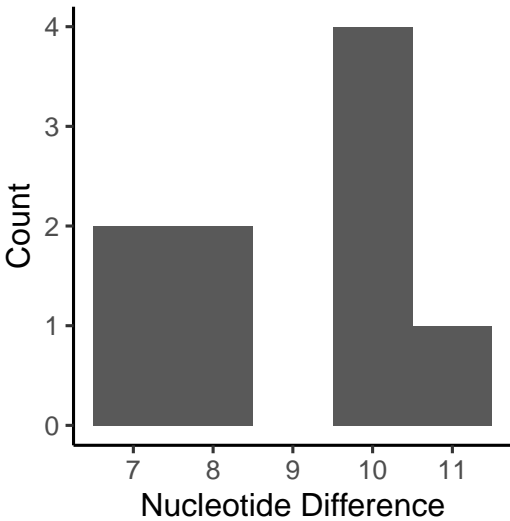
IGHV1-68*02

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



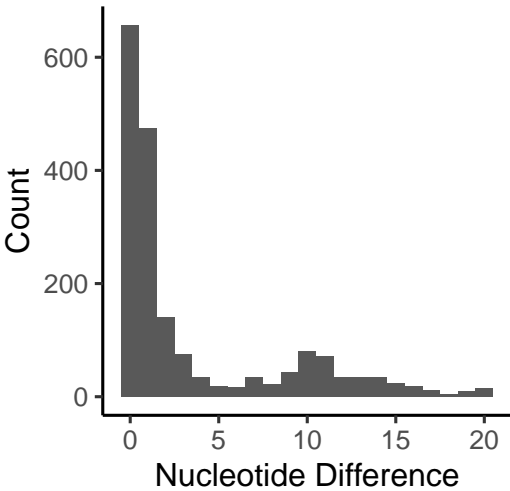
IGHV1-NL1*01

9 sequences assigned
No exact matches.



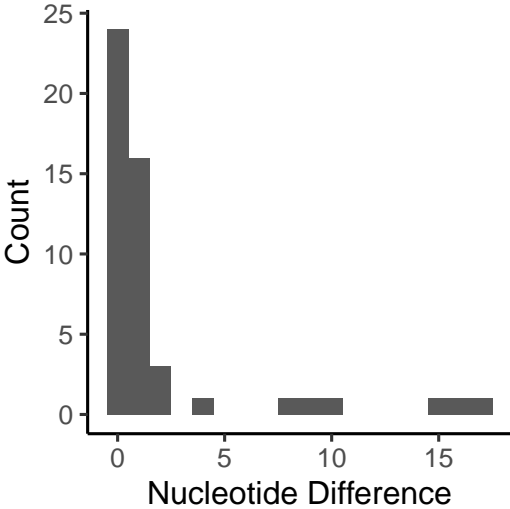
IGHV1-58*01_03

1955 sequences assigned
657 (33.6%) exact matches, in which:
609 unique CDR3
7 unique J



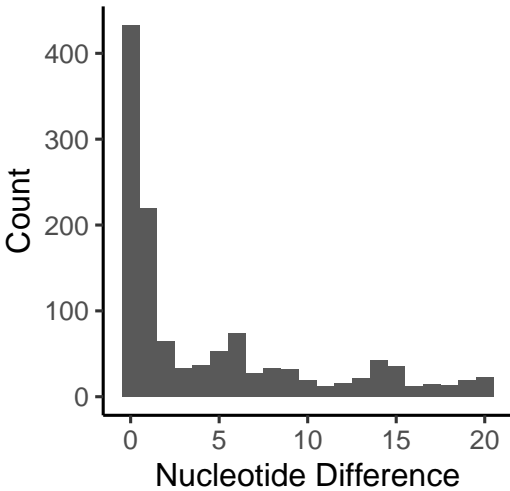
IGHV1-69-2*01

53 sequences assigned
24 (45.3%) exact matches, in which:
21 unique CDR3
6 unique J



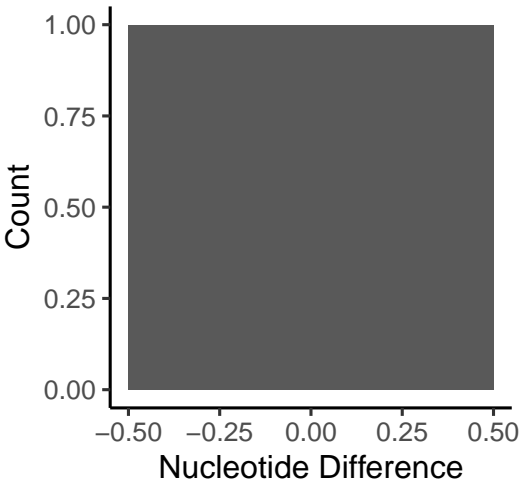
IGHV2-5*01

1320 sequences assigned
433 (32.8%) exact matches, in which:
409 unique CDR3
7 unique J



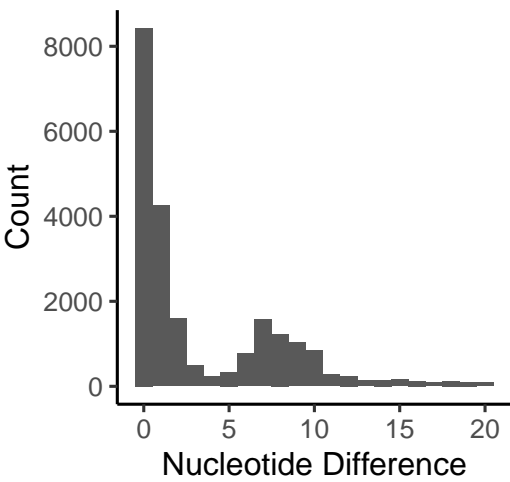
IGHV1-68*01

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



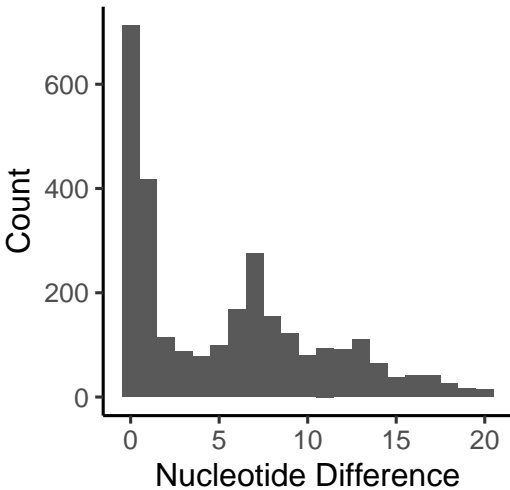
IGHV1-69*06_14

23093 sequences assigned
8429 (36.5%) exact matches, in which:
7793 unique CDR3
7 unique J



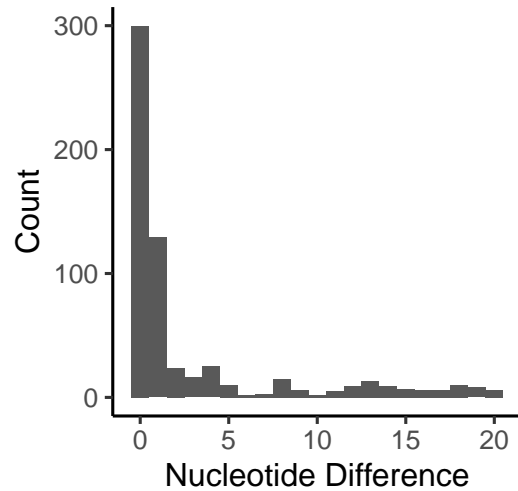
IGHV2-5*02

3380 sequences assigned
713 (21.1%) exact matches, in which:
660 unique CDR3
7 unique J



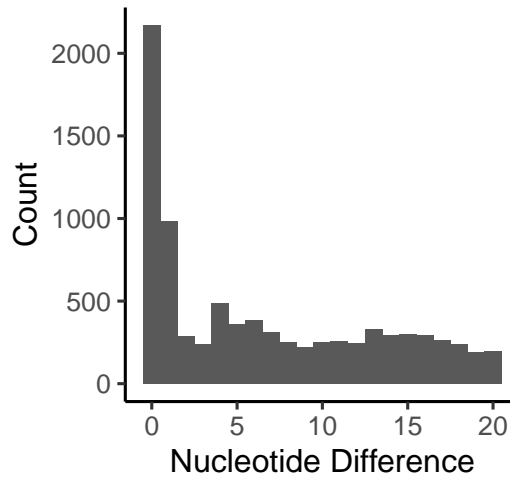
IGHV2–26*01

637 sequences assigned
300 (47.1%) exact matches, in which:
278 unique CDR3
7 unique J



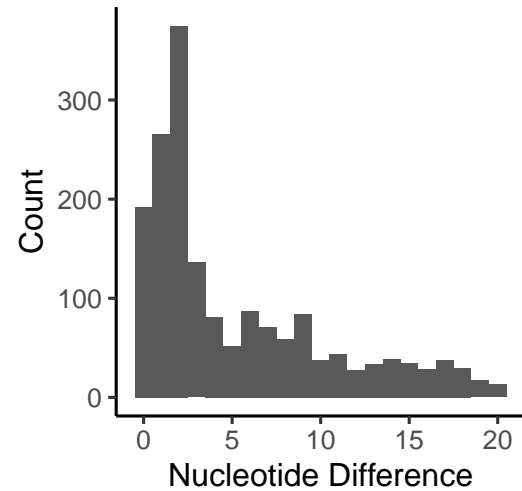
IGHV3–7*03

9513 sequences assigned
2169 (22.8%) exact matches, in which:
1558 unique CDR3
7 unique J



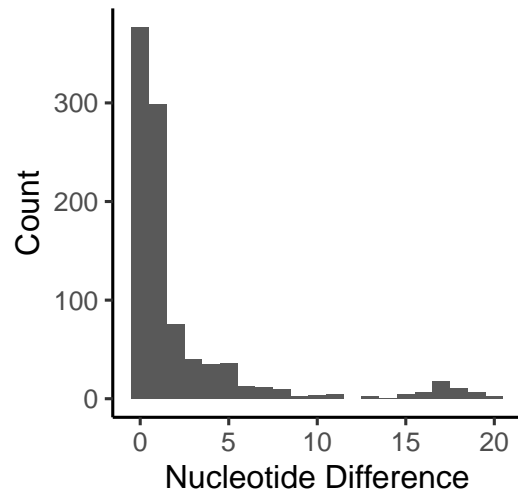
IGHV3–11*04

1844 sequences assigned
192 (10.4%) exact matches, in which:
188 unique CDR3
7 unique J



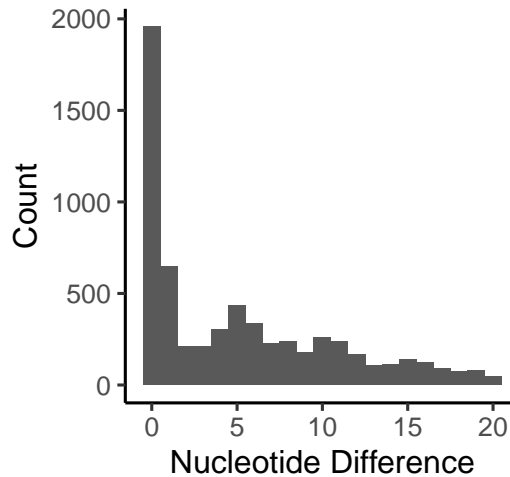
IGHV2–70*01

987 sequences assigned
377 (38.2%) exact matches, in which:
350 unique CDR3
7 unique J



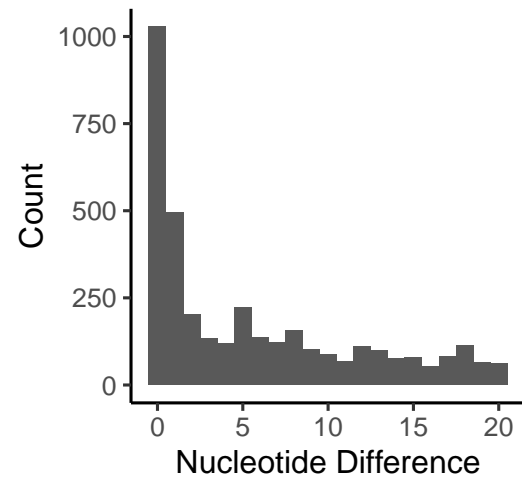
IGHV3–9*01

6518 sequences assigned
1957 (30%) exact matches, in which:
1344 unique CDR3
7 unique J



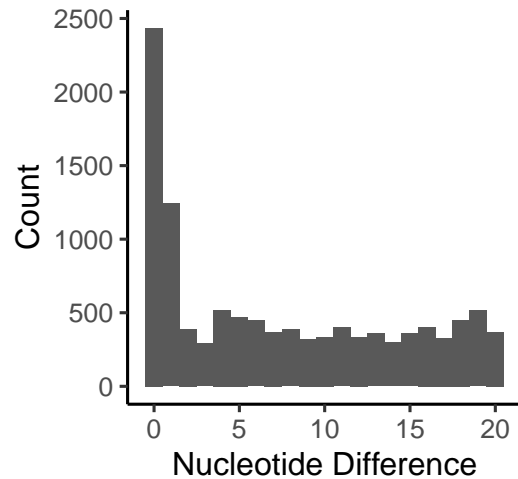
IGHV3–11*06

3946 sequences assigned
1028 (26.1%) exact matches, in which:
771 unique CDR3
7 unique J



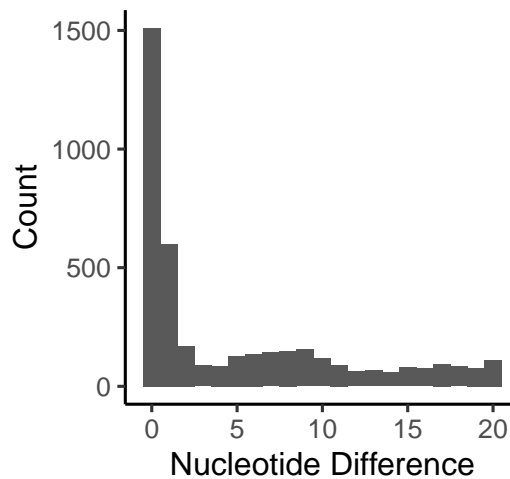
IGHV3–7*01

12307 sequences assigned
2435 (19.8%) exact matches, in which:
1870 unique CDR3
7 unique J



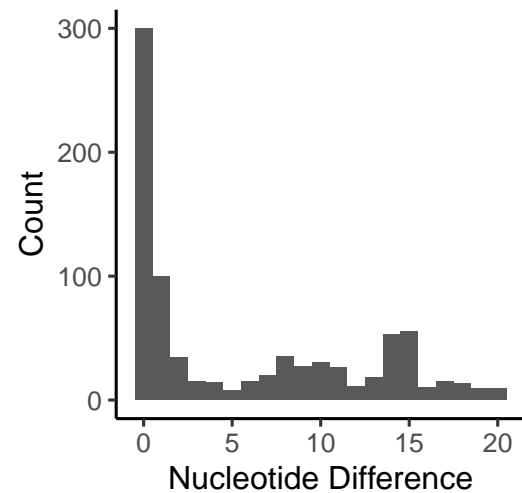
IGHV3–11*01

4713 sequences assigned
1510 (32%) exact matches, in which:
1121 unique CDR3
7 unique J



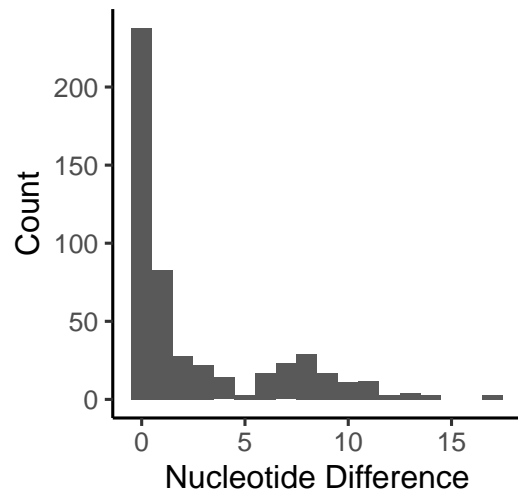
IGHV3–13*01

866 sequences assigned
300 (34.6%) exact matches, in which:
207 unique CDR3
7 unique J



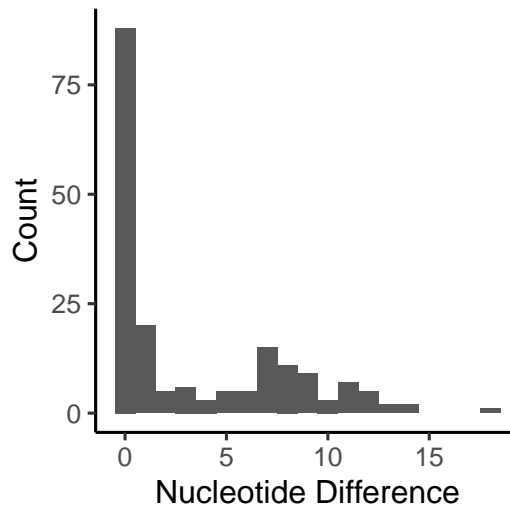
IGHV3-13*05

513 sequences assigned
238 (46.4%) exact matches, in which:
164 unique CDR3
7 unique J



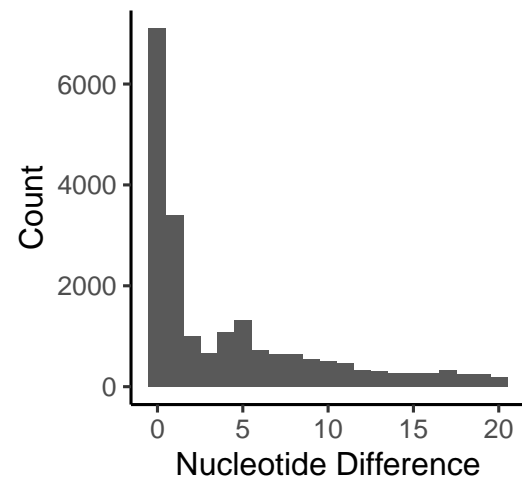
IGHV3-20*01_02

188 sequences assigned
88 (46.8%) exact matches, in which:
65 unique CDR3
5 unique J



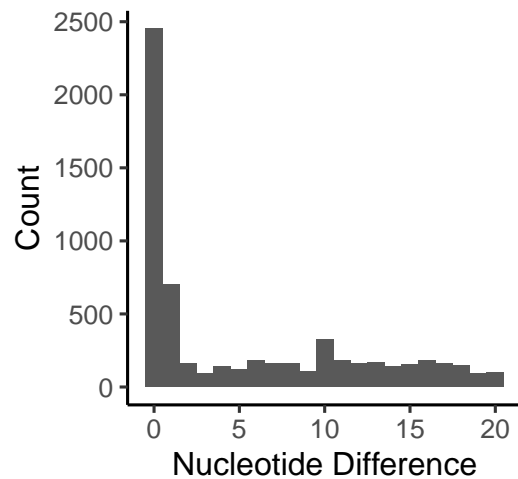
IGHV3-21*01_02

21439 sequences assigned
7103 (33.1%) exact matches, in which:
4952 unique CDR3
7 unique J



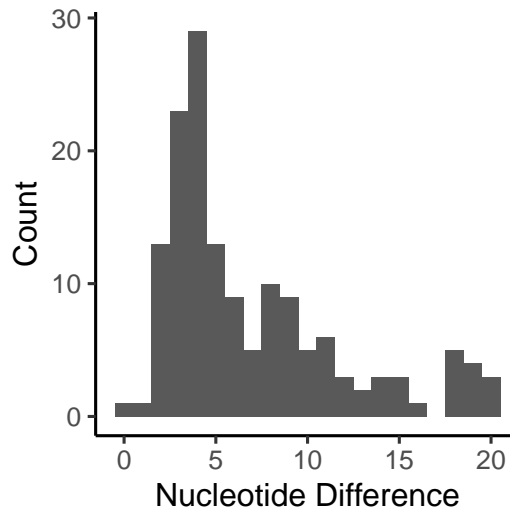
IGHV3-15*01_02

6914 sequences assigned
2452 (35.5%) exact matches, in which:
1786 unique CDR3
7 unique J



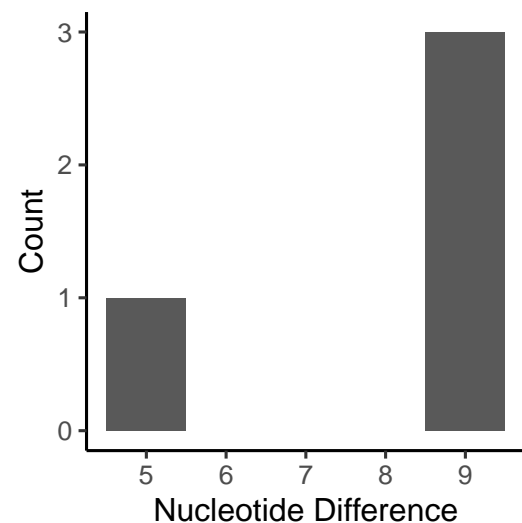
IGHV3-20*03_04

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



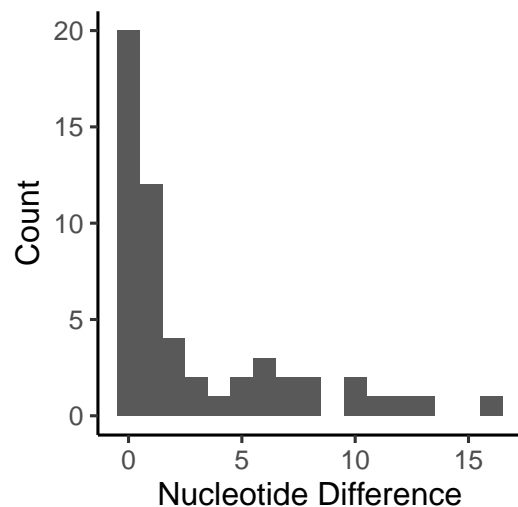
IGHV3-22*01_02

4 sequences assigned
No exact matches.



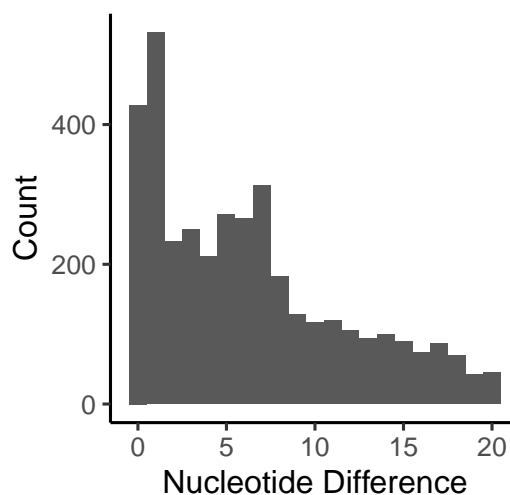
IGHV3-19*01

54 sequences assigned
20 (37%) exact matches, in which:
14 unique CDR3
4 unique J



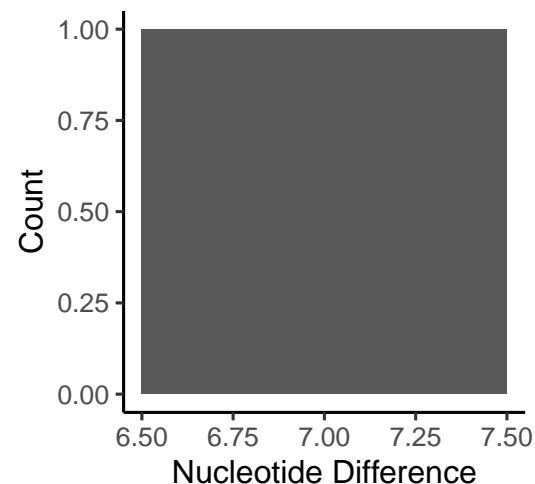
IGHV3-21*04

4040 sequences assigned
428 (10.6%) exact matches, in which:
409 unique CDR3
7 unique J



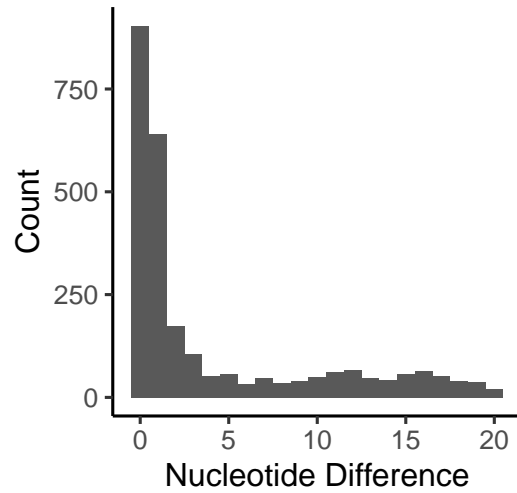
IGHV3-25*04

1 sequences assigned
No exact matches.



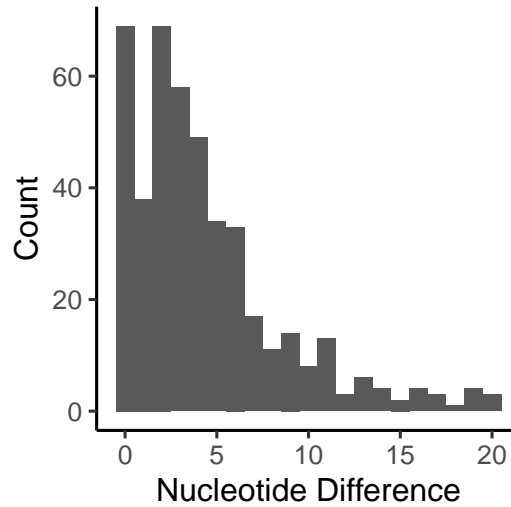
IGHV3–30*03

2823 sequences assigned
904 (32%) exact matches, in which:
837 unique CDR3
7 unique J



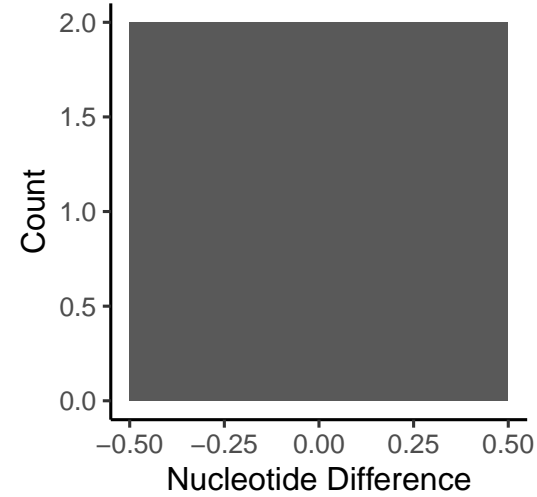
IGHV3–33*05

463 sequences assigned
69 (14.9%) exact matches, in which:
64 unique CDR3
7 unique J



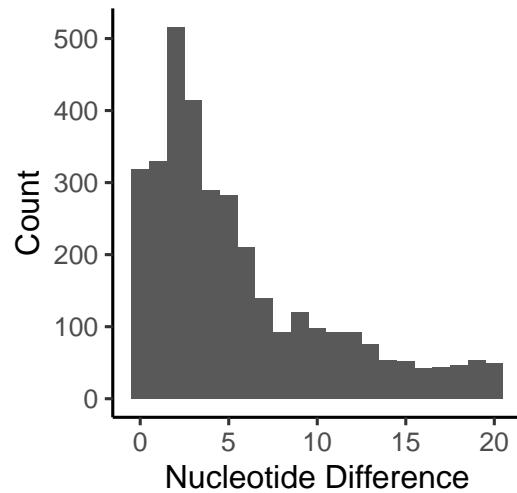
IGHV3–43*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



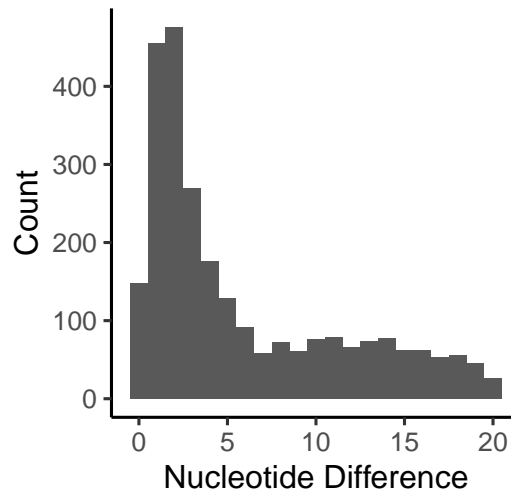
IGHV3–30*04_T288C

3674 sequences assigned
319 (8.7%) exact matches, in which:
312 unique CDR3
7 unique J



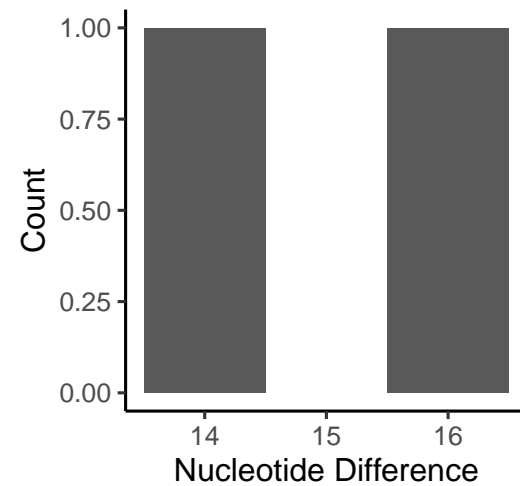
IGHV3–33*06

2719 sequences assigned
148 (5.4%) exact matches, in which:
145 unique CDR3
6 unique J



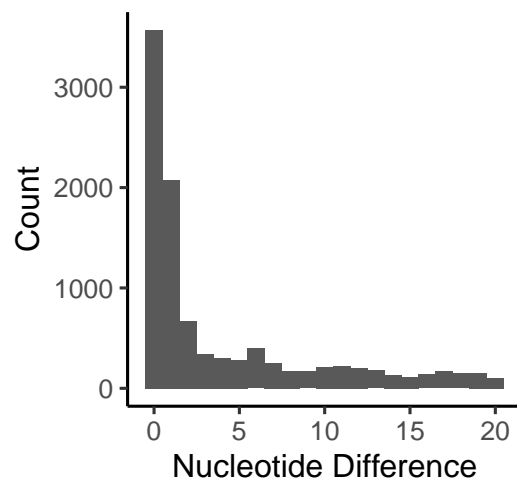
IGHV3–47*02

2 sequences assigned
No exact matches.



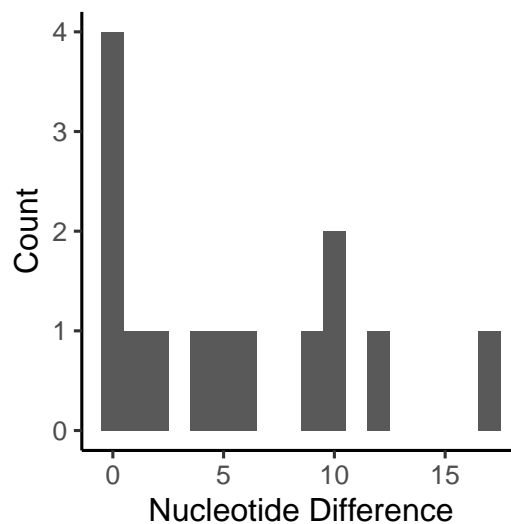
IGHV3–33*01

10477 sequences assigned
3570 (34.1%) exact matches, in which:
2659 unique CDR3
7 unique J



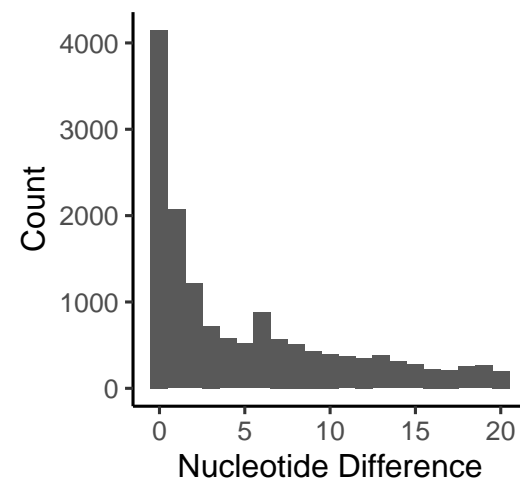
IGHV3–35*01

14 sequences assigned
4 (28.6%) exact matches, in which:
4 unique CDR3
2 unique J



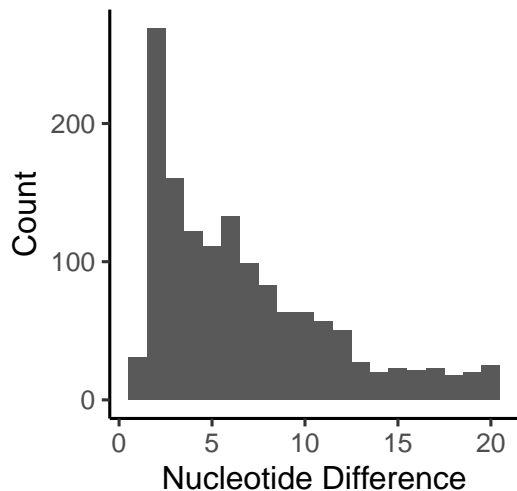
IGHV3–48*03

15889 sequences assigned
4149 (26.1%) exact matches, in which:
2908 unique CDR3
7 unique J



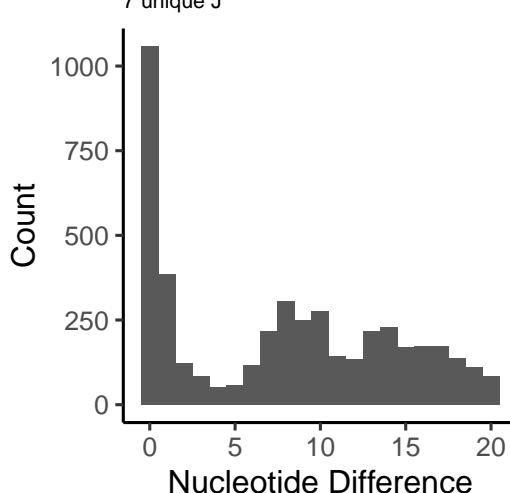
IGHV3-48*04

1529 sequences assigned
No exact matches.



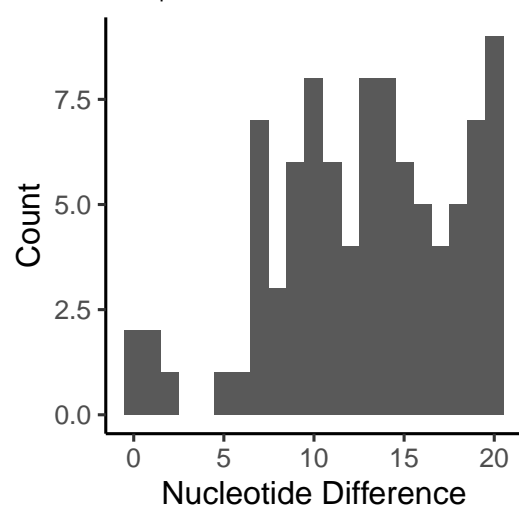
IGHV3-53*01_02

5010 sequences assigned
1058 (21.1%) exact matches, in which:
775 unique CDR3
7 unique J



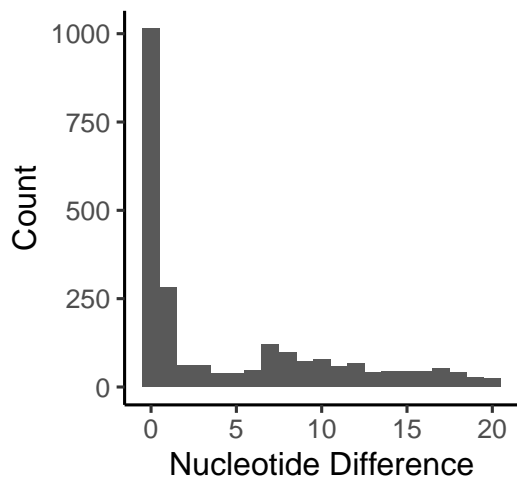
IGHV3-66*01

113 sequences assigned
2 (1.8%) exact matches, in which:
1 unique CDR3
1 unique J



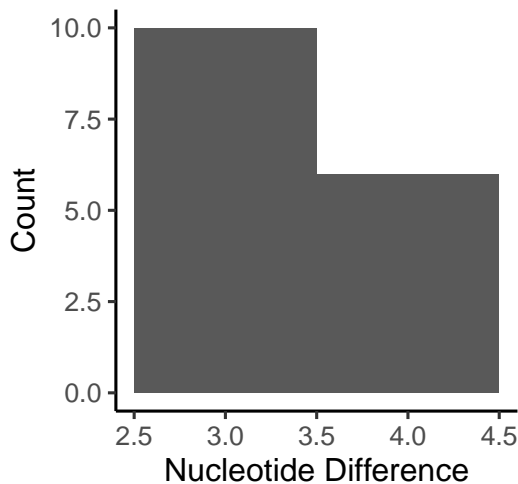
IGHV3-49*04

2585 sequences assigned
1014 (39.2%) exact matches, in which:
754 unique CDR3
7 unique J



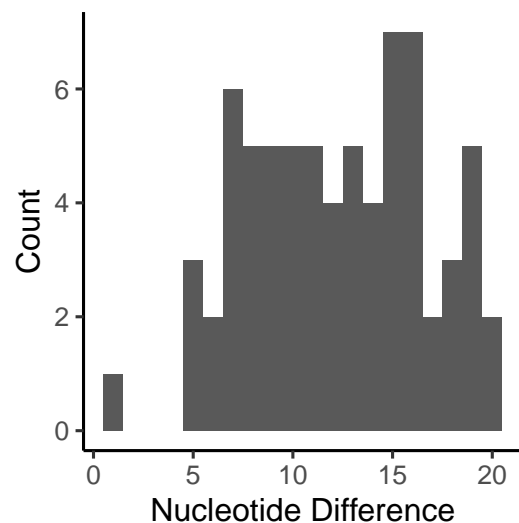
IGHV3-62*03

16 sequences assigned
No exact matches.



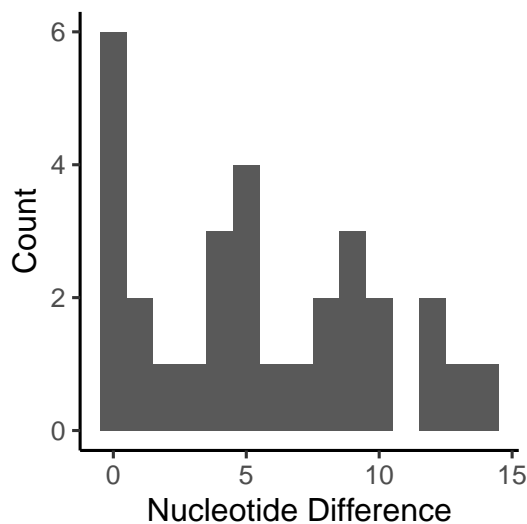
IGHV3-66*02

78 sequences assigned
No exact matches.



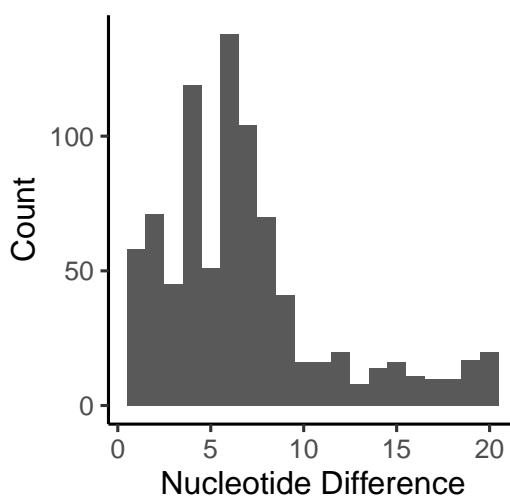
IGHV3-52*01_03

30 sequences assigned
6 (20%) exact matches, in which:
4 unique CDR3
2 unique J



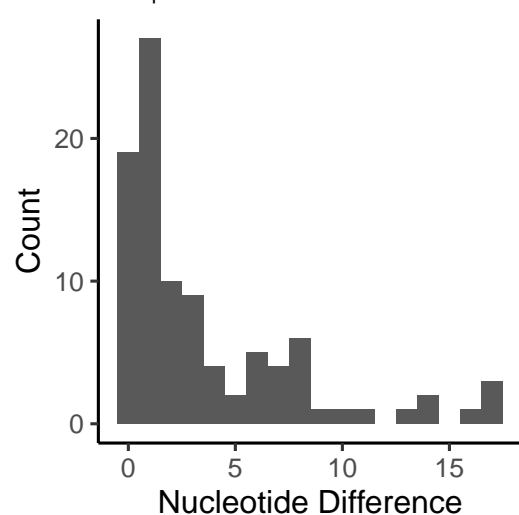
IGHV3-64*04

895 sequences assigned
No exact matches.



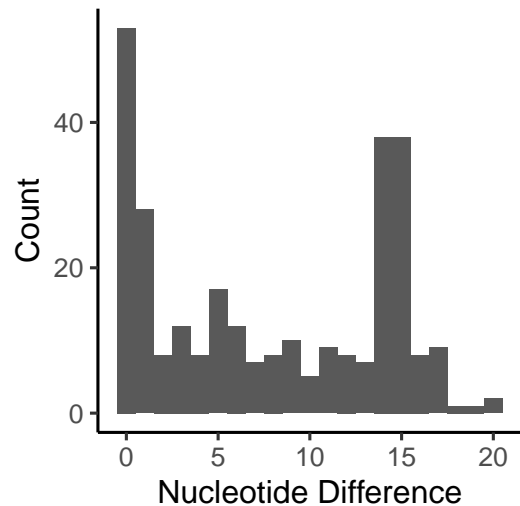
IGHV3-66*03

97 sequences assigned
19 (19.6%) exact matches, in which:
19 unique CDR3
5 unique J



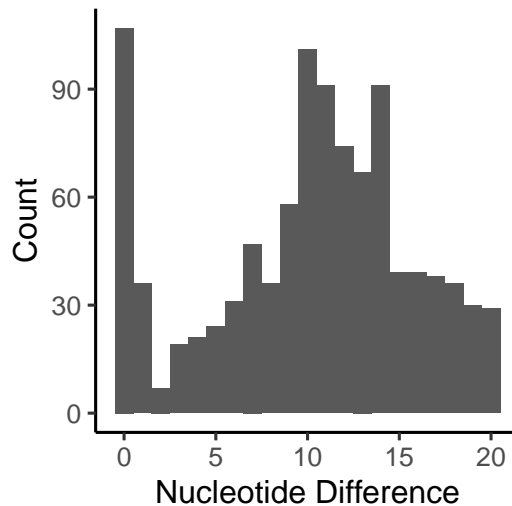
IGHV3-69-1*01

308 sequences assigned
53 (17.2%) exact matches, in which:
45 unique CDR3
7 unique J



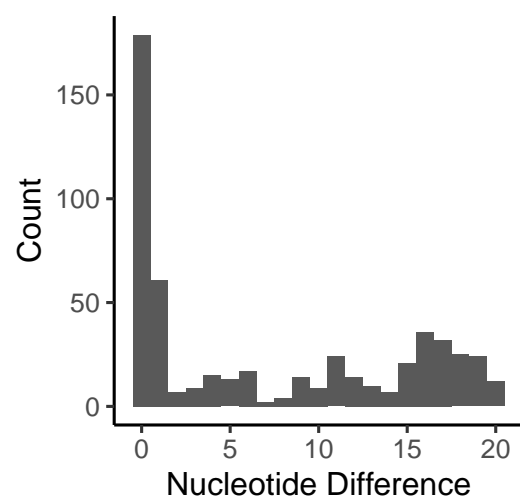
IGHV3-72*01

1364 sequences assigned
107 (7.8%) exact matches, in which:
81 unique CDR3
7 unique J



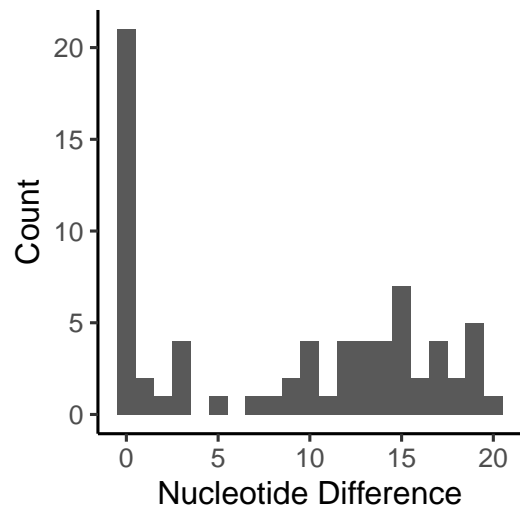
IGHV3-43D*04

561 sequences assigned
179 (31.9%) exact matches, in which:
122 unique CDR3
7 unique J



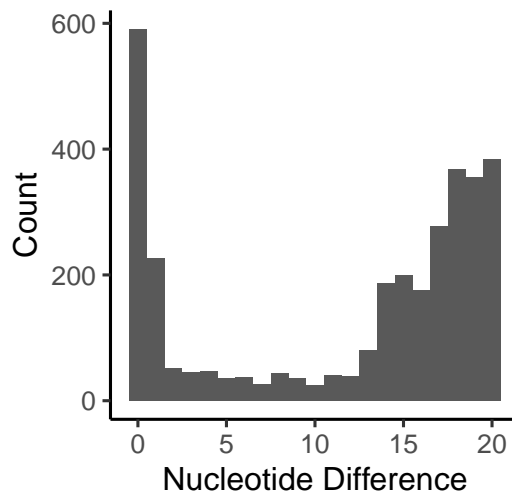
IGHV3-69-1*02

81 sequences assigned
21 (25.9%) exact matches, in which:
21 unique CDR3
4 unique J



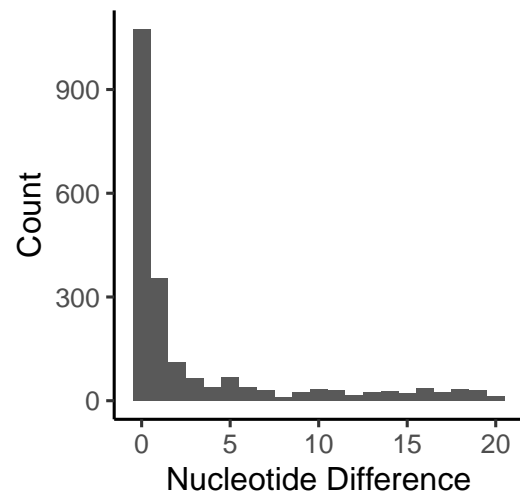
IGHV3-73*01_02

4276 sequences assigned
591 (13.8%) exact matches, in which:
426 unique CDR3
7 unique J



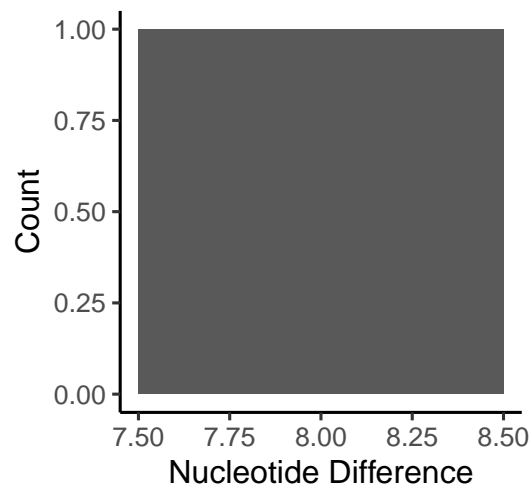
IGHV3-64D*06

2290 sequences assigned
1075 (46.9%) exact matches, in which:
708 unique CDR3
7 unique J



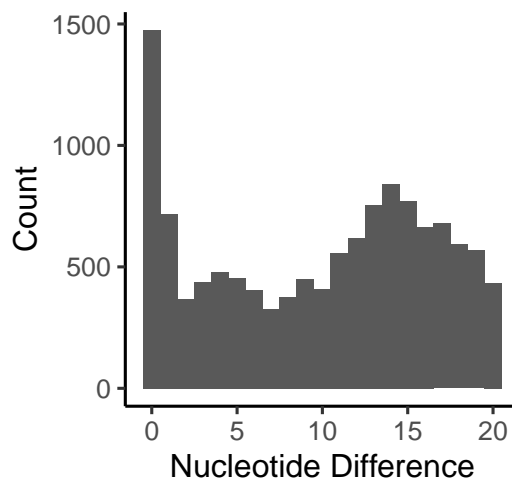
IGHV3-71*01_04

3 sequences assigned
No exact matches.



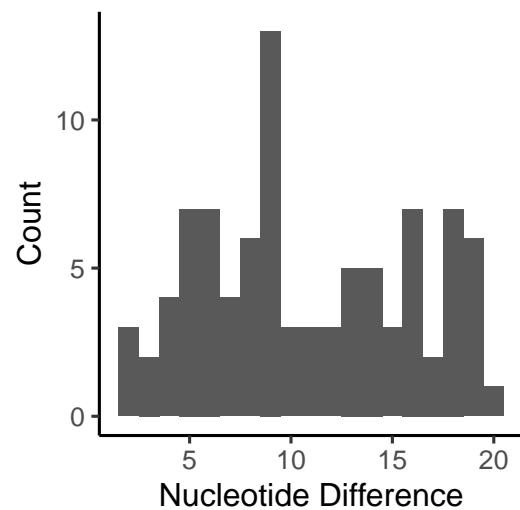
IGHV3-74*01_02

15163 sequences assigned
1475 (9.7%) exact matches, in which:
1025 unique CDR3
7 unique J



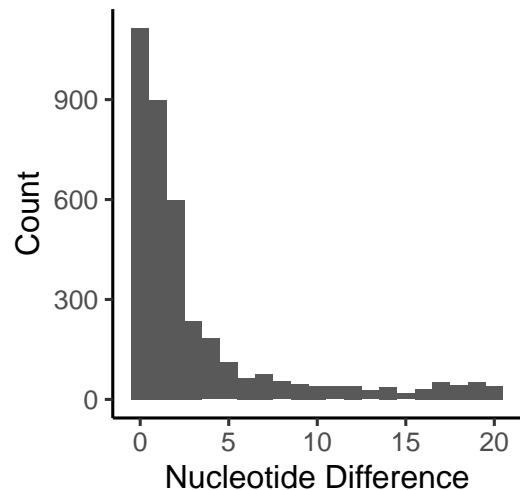
IGHV3-NL1*01

111 sequences assigned
No exact matches.



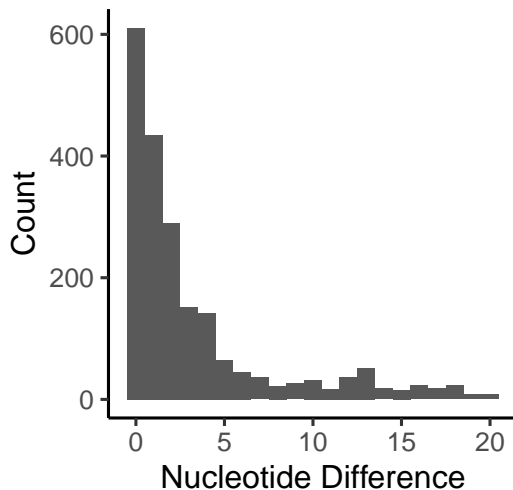
IGHV4-4*07

3972 sequences assigned
1116 (28.1%) exact matches, in which:
1015 unique CDR3
7 unique J



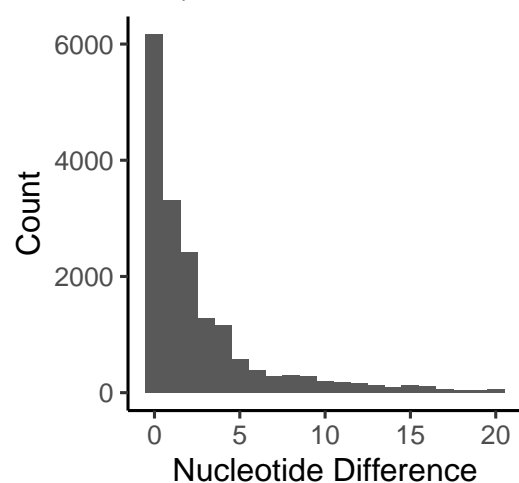
IGHV4-30-2*01

2168 sequences assigned
611 (28.2%) exact matches, in which:
549 unique CDR3
7 unique J



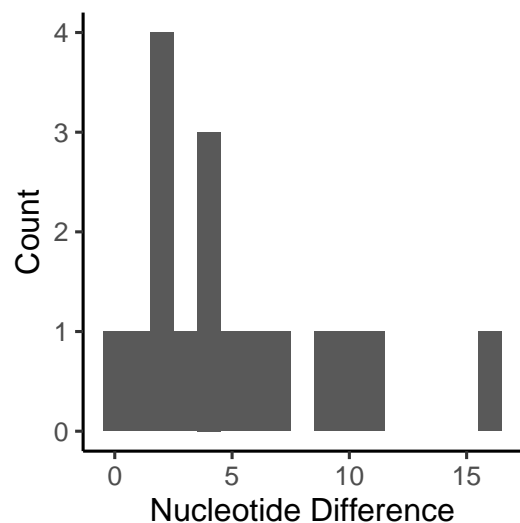
IGHV4-34*01_02

17782 sequences assigned
6166 (34.7%) exact matches, in which:
5504 unique CDR3
7 unique J



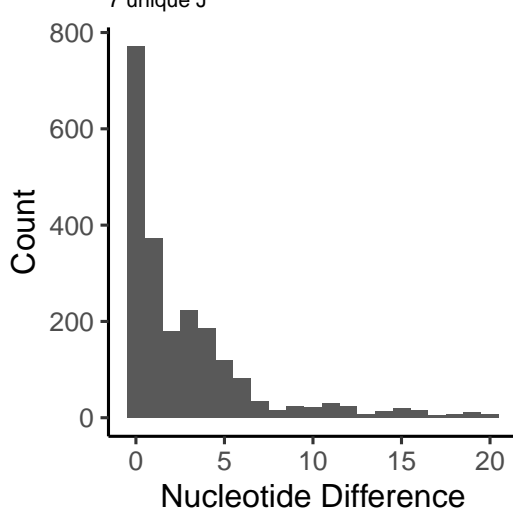
IGHV4-28*03

19 sequences assigned
1 (5.3%) exact matches, in which:
1 unique CDR3
1 unique J



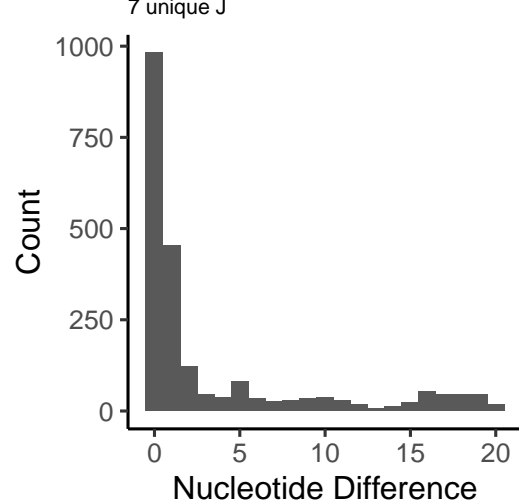
IGHV4-30-4*01

2314 sequences assigned
772 (33.4%) exact matches, in which:
722 unique CDR3
7 unique J



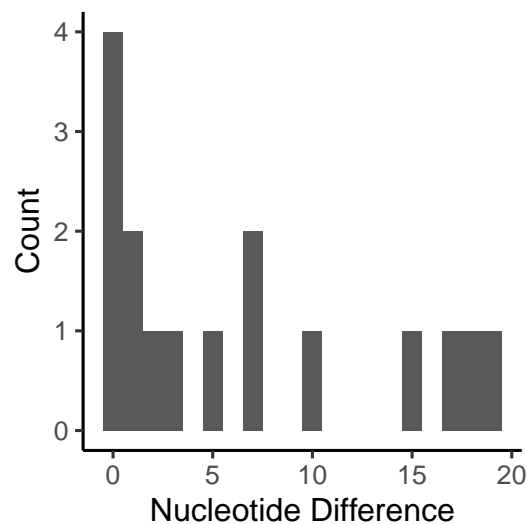
IGHV4-38-2*01

2401 sequences assigned
982 (40.9%) exact matches, in which:
935 unique CDR3
7 unique J



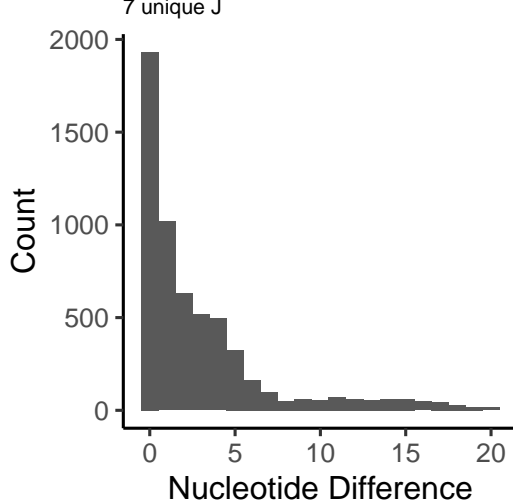
IGHV4-28*01_07

17 sequences assigned
4 (23.5%) exact matches, in which:
3 unique CDR3
3 unique J



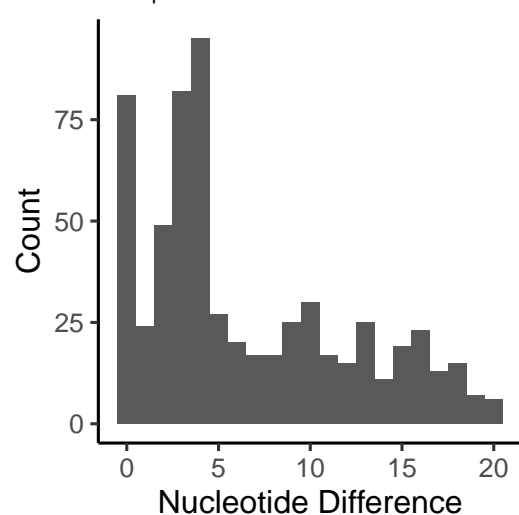
IGHV4-31*03_04

6131 sequences assigned
1932 (31.5%) exact matches, in which:
1793 unique CDR3
7 unique J



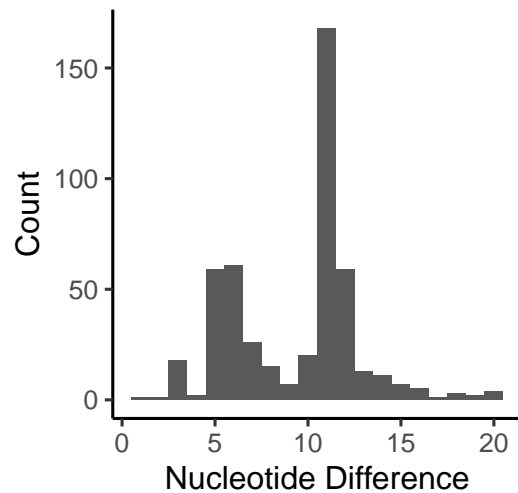
IGHV4-38-2*02

718 sequences assigned
81 (11.3%) exact matches, in which:
76 unique CDR3
6 unique J



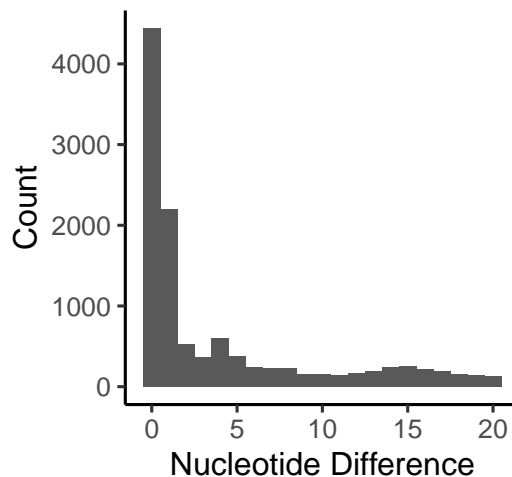
IGHV4-39*07

499 sequences assigned
No exact matches.



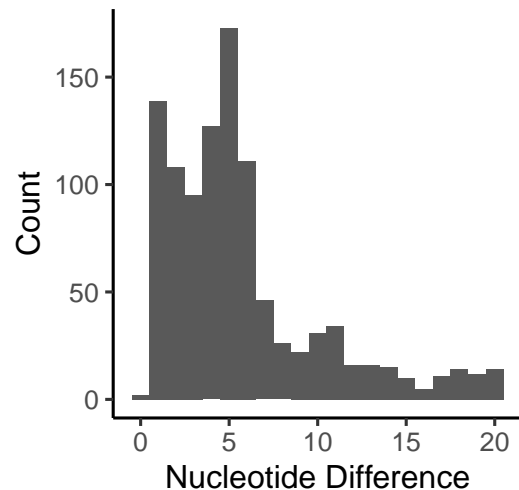
IGHV4-59*01_07

12065 sequences assigned
4440 (36.8%) exact matches, in which:
4098 unique CDR3
7 unique J



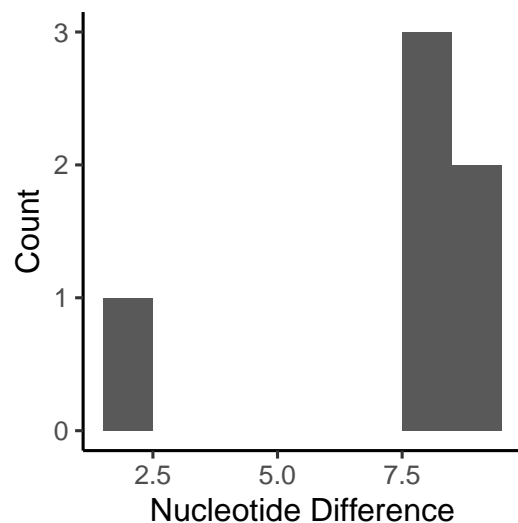
IGHV4-61*08

1136 sequences assigned
2 (0.2%) exact matches, in which:
2 unique CDR3
2 unique J



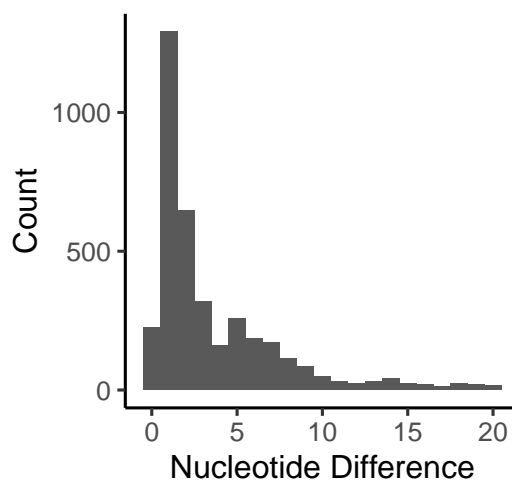
IGHV4-55*09

6 sequences assigned
No exact matches.



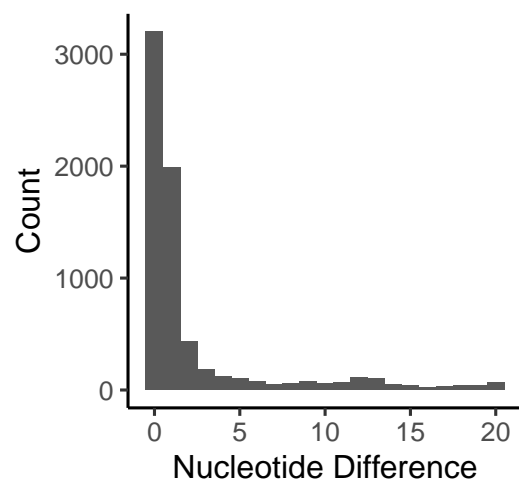
IGHV4-59*12

3806 sequences assigned
225 (5.9%) exact matches, in which:
225 unique CDR3
7 unique J



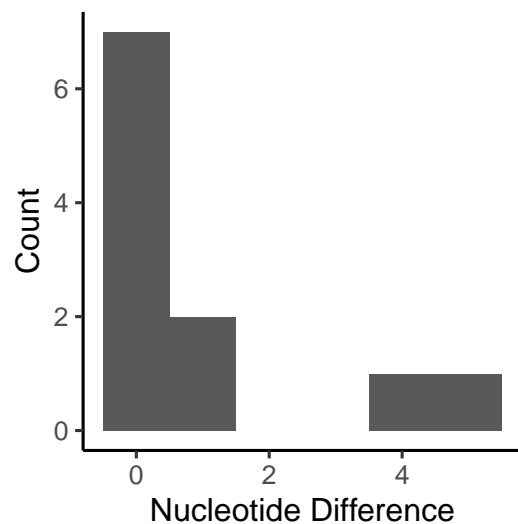
IGHV5-10-1*01_03

7175 sequences assigned
3201 (44.6%) exact matches, in which:
2384 unique CDR3
7 unique J



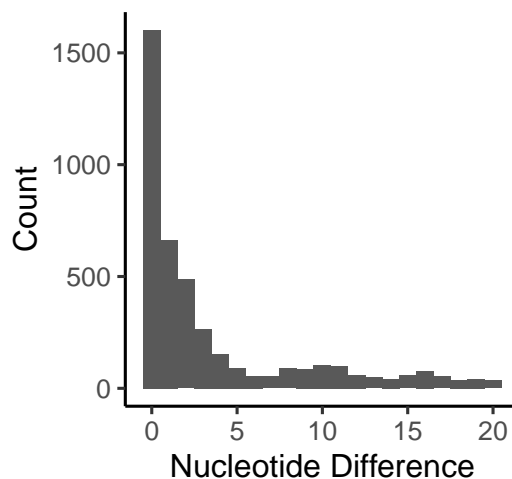
IGHV4-55*01_05

11 sequences assigned
7 (63.6%) exact matches, in which:
6 unique CDR3
4 unique J



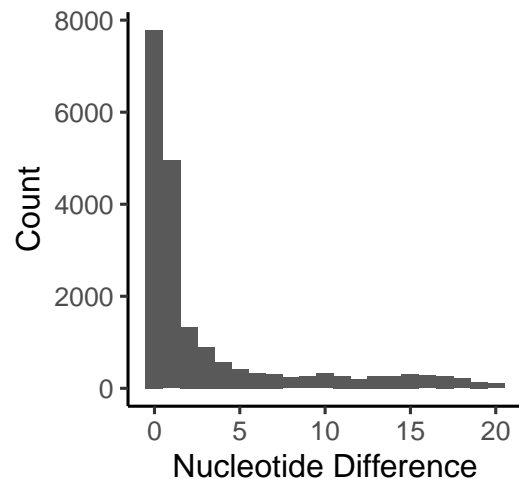
IGHV4-61*01

4392 sequences assigned
1602 (36.5%) exact matches, in which:
1493 unique CDR3
7 unique J



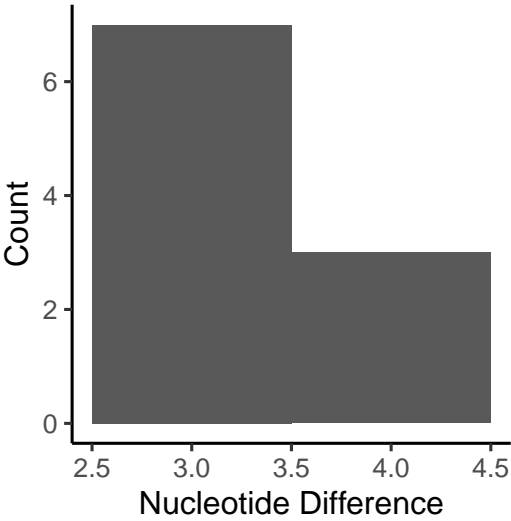
IGHV5-51*01_03

20185 sequences assigned
7785 (38.6%) exact matches, in which:
5122 unique CDR3
7 unique J



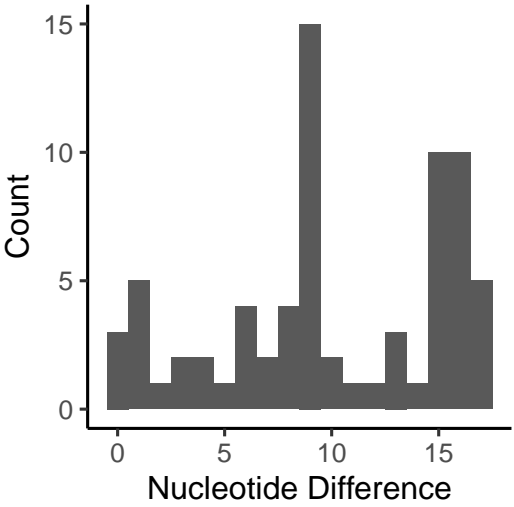
IGHV5-78*01

10 sequences assigned
No exact matches.



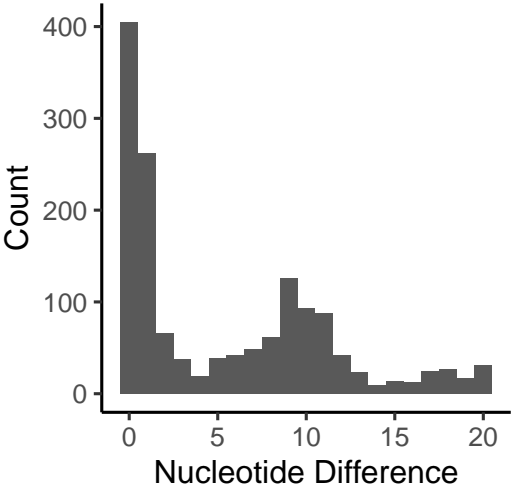
IGHV7-4-1*02

94 sequences assigned
3 (3.2%) exact matches, in which:
2 unique CDR3
1 unique J



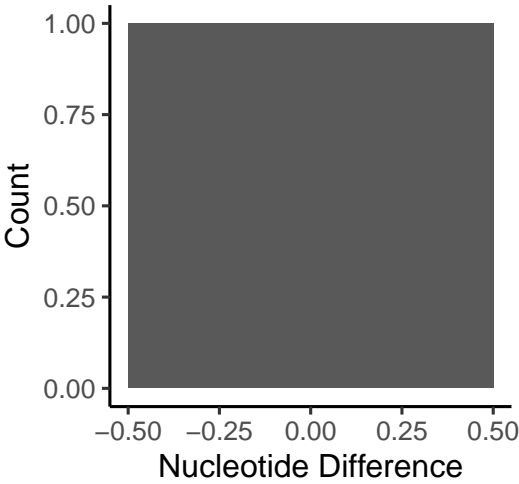
IGHV6-1*01_02

1615 sequences assigned
405 (25.1%) exact matches, in which:
370 unique CDR3
6 unique J



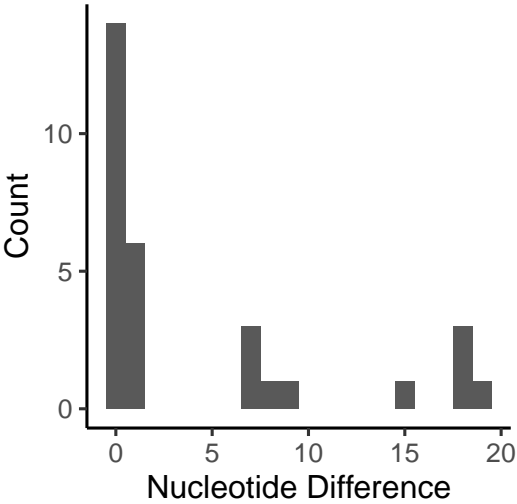
IGHV7-81*01

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

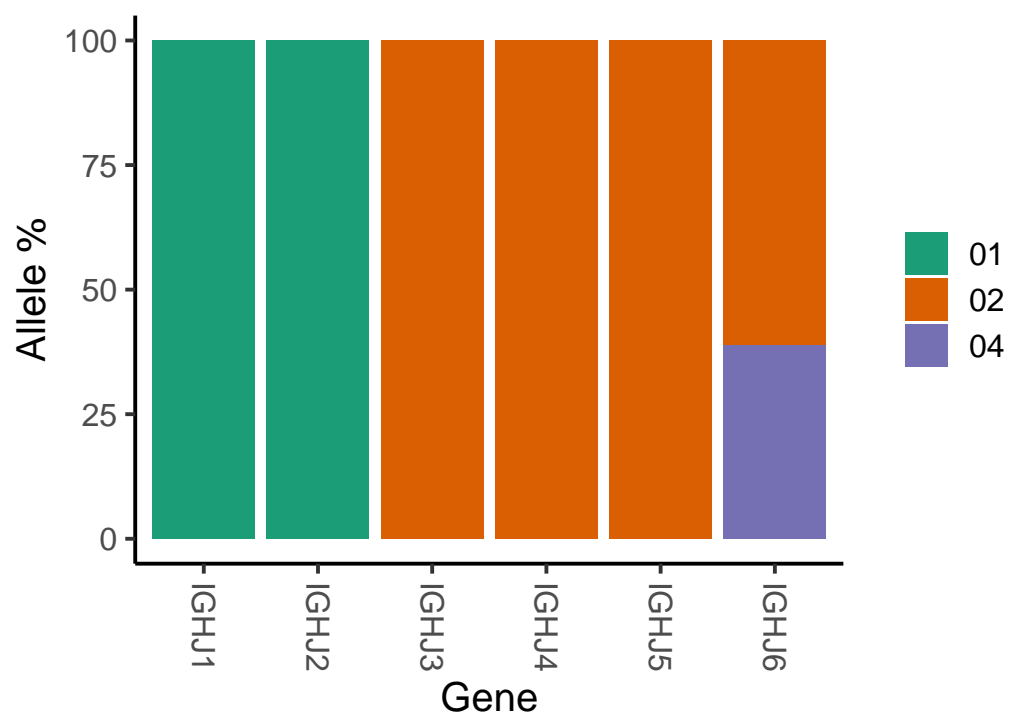


IGHV7-4-1*01

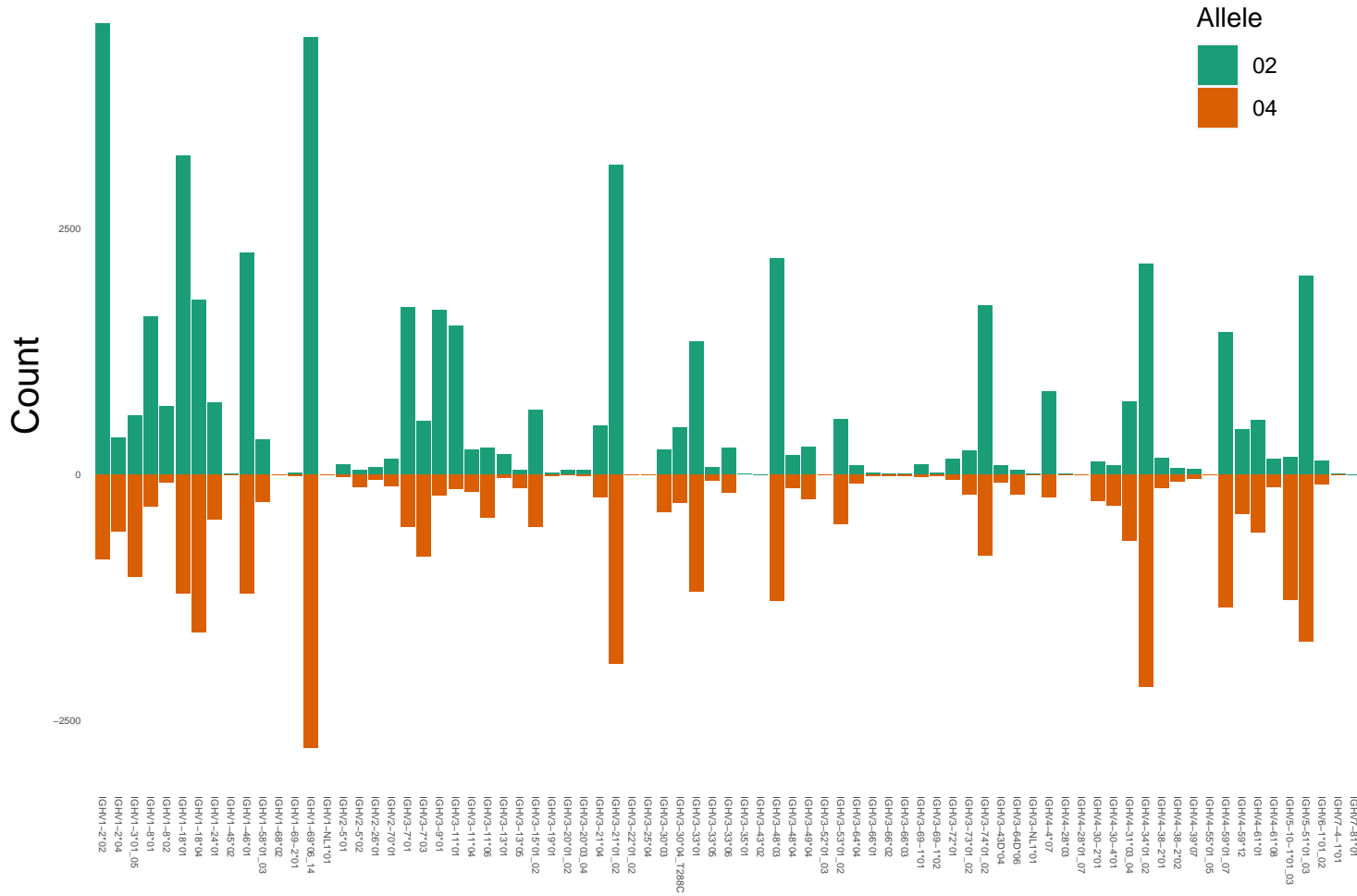
33 sequences assigned
14 (42.4%) exact matches, in which:
14 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning:IGHV4-51*02_IGHV4-51*02_G75C_IGHV4-51*02_G75C 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) IGHV1-69*04_09_G112A 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.

Novel sequence(s) IGHV1-69*08_C191T IGHV3-30*03_T288C IGHV3-30-3*02_G75C IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*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) IGHV4-4*02_03_C300T IGHV5-51*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.

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

Novel sequence(s) IGHV1-69*08_C191T IGHV3-11*06_T300C IGHV3-30*03_T288C IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*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.

Novel sequence(s) IGHV3-30*03_T288C IGHV3-30-3*01_T288C IGHV4-59*02_G88A IGHV5-10-1*01_03_T258C IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s) IGHV3-48*04_A193T_C198T_A200C_C201T_T210A are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4-59*02_G88A 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) IGHV3-33*01_C288T IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV3-33*01_T105C_A173T_T192G_C288T are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV3-30*04_T288C IGHV3-33*01_G75C IGHV4-30-2*03_T288C IGHV4-59*02_G88A are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV3-11*06_T300C 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) IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*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) IGHV5-51*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.