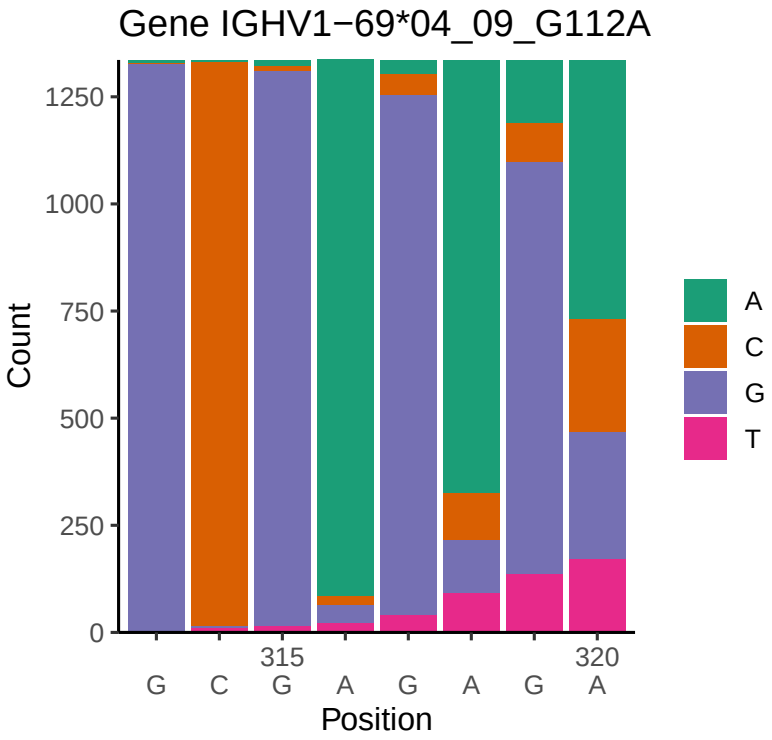
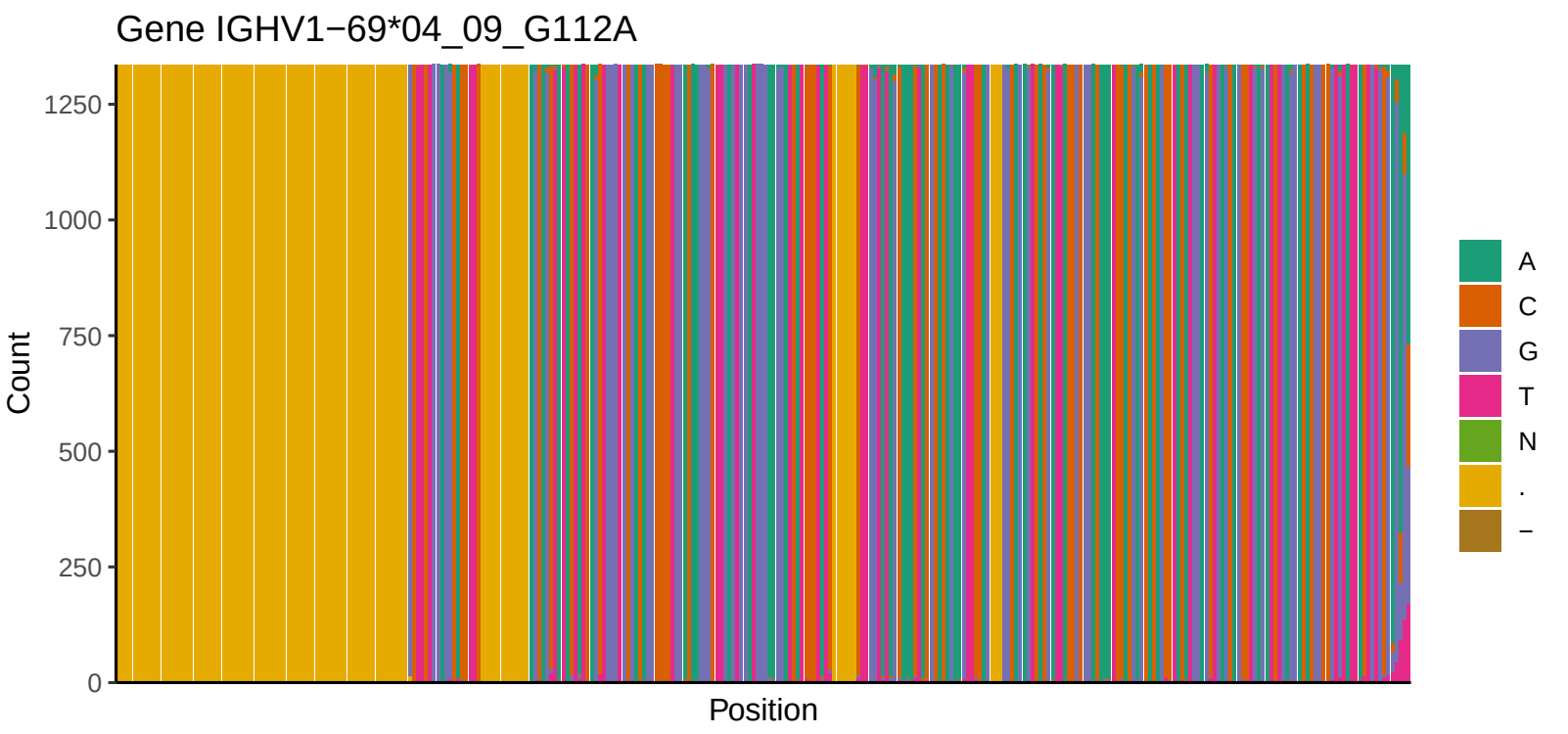
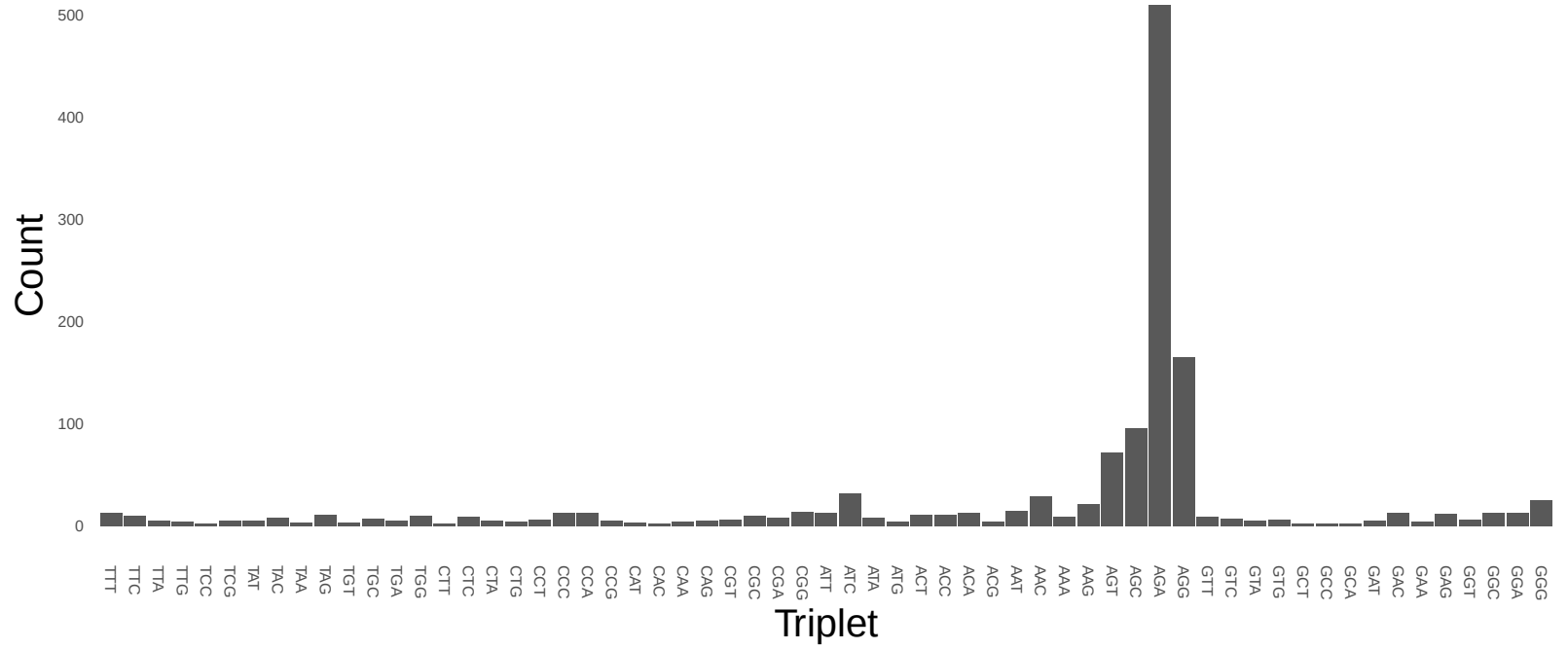

Gene IGHV1−69*04_09_G112A
Count
1250
1000
750
500
250
0
315
320
G C G A G A G A
Position
A
C
G
T

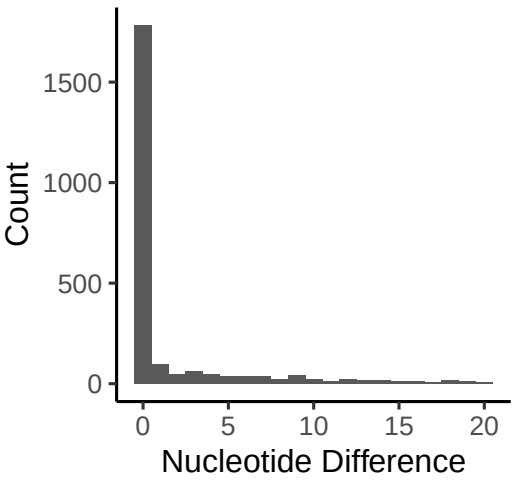

Gene IGHV1−69*04_09_G112A
Count
1250
1000
750
500
250
0
Position
A
C
G
T
N
.
−

IGHV1−69*04_09_G112A− Final 3 nucleotides as a triplet



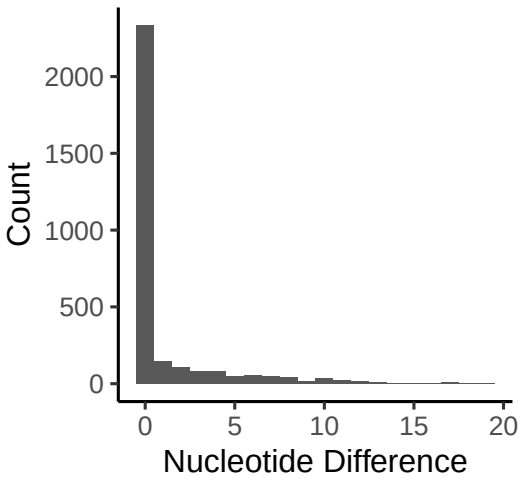
IGHV1−2*02

2380 sequences assigned
1782 (74.9%) exact matches, in which:
1779 unique CDR3
6 unique J



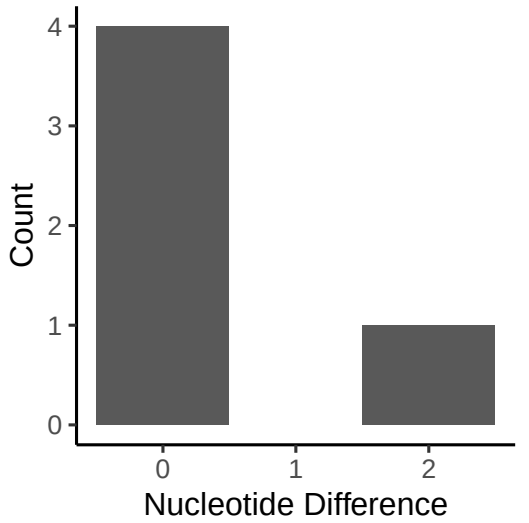
IGHV1−8*01

3077 sequences assigned
2333 (75.8%) exact matches, in which:
2327 unique CDR3
6 unique J



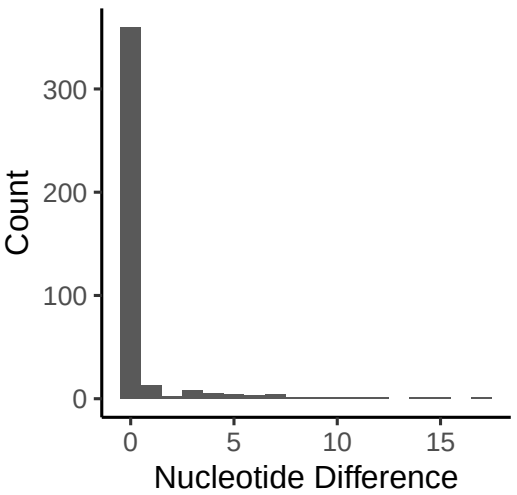
IGHV1−45*02

9 sequences assigned
4 (44.4%) exact matches, in which:
4 unique CDR3
3 unique J



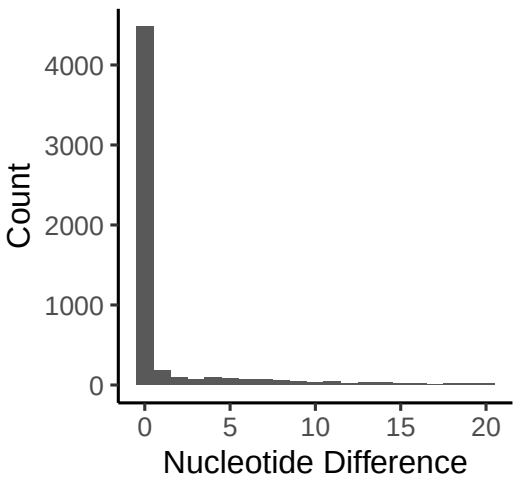
IGHV1−2*04

408 sequences assigned
360 (88.2%) exact matches, in which:
360 unique CDR3
6 unique J



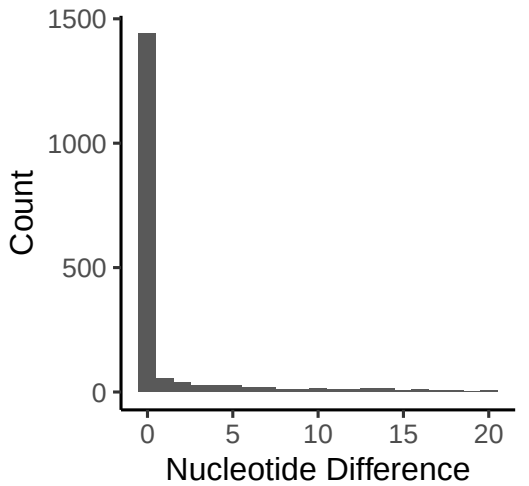
IGHV1−18*01

5539 sequences assigned
4478 (80.8%) exact matches, in which:
4474 unique CDR3
6 unique J



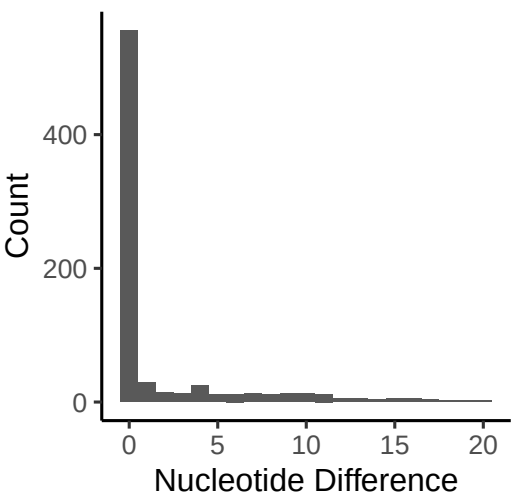
IGHV1−46*01

1787 sequences assigned
1440 (80.6%) exact matches, in which:
1440 unique CDR3
6 unique J



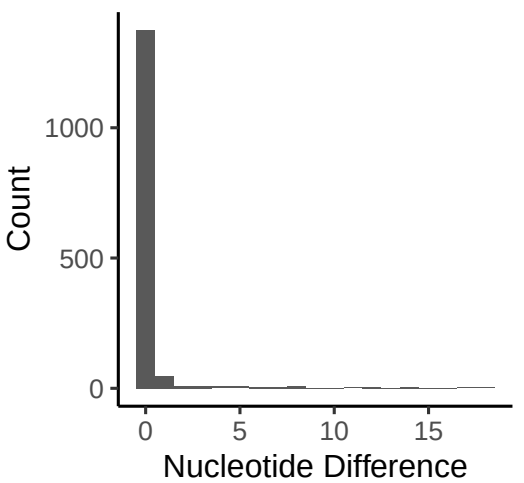
IGHV1−3*01_05

770 sequences assigned
556 (72.2%) exact matches, in which:
556 unique CDR3
6 unique J



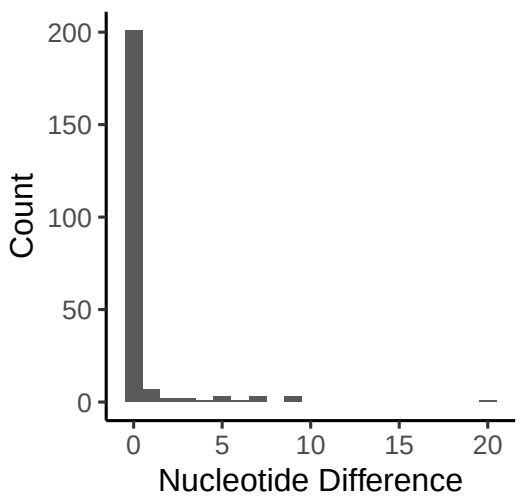
IGHV1−24*01

1500 sequences assigned
1375 (91.7%) exact matches, in which:
1373 unique CDR3
6 unique J



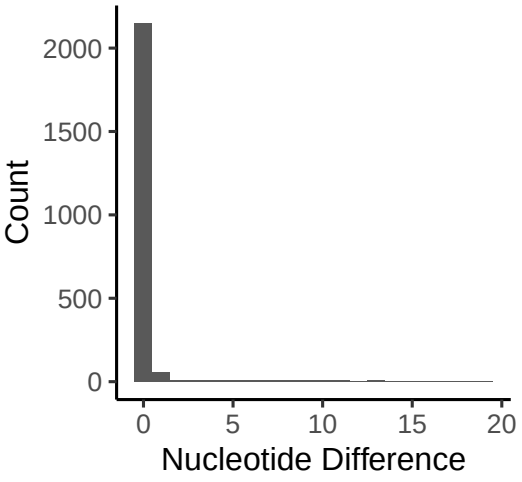
IGHV1−58*02

224 sequences assigned
201 (89.7%) exact matches, in which:
201 unique CDR3
5 unique J



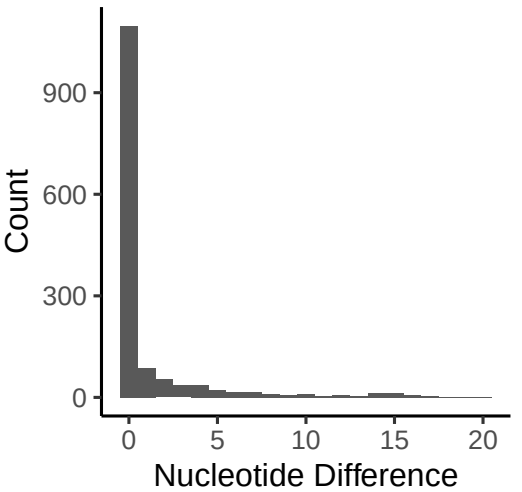
IGHV1−69*04_09

2330 sequences assigned
2148 (92.2%) exact matches, in which:
2148 unique CDR3
6 unique J



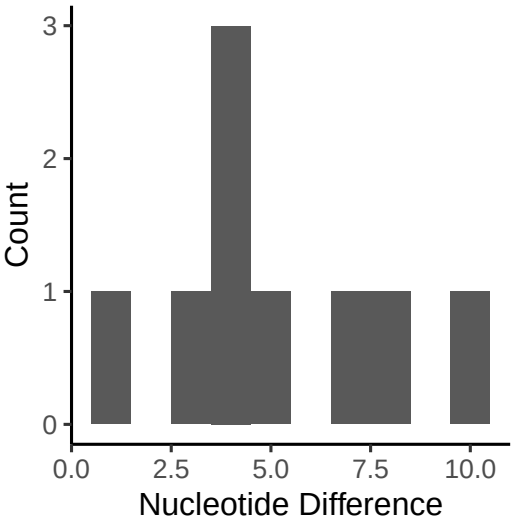
IGHV2−5*02

1470 sequences assigned
1098 (74.7%) exact matches, in which:
1093 unique CDR3
6 unique J



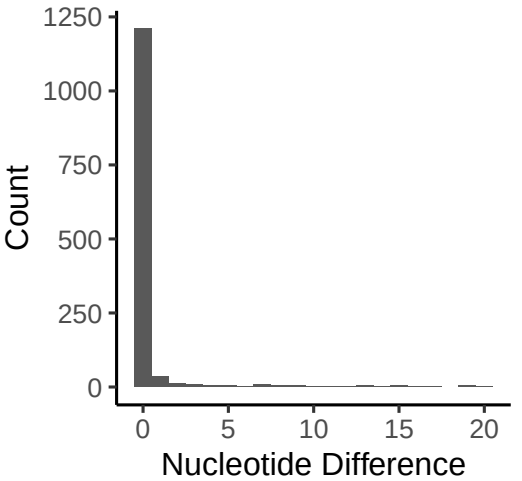
IGHV2−70D*04

9 sequences assigned
No exact matches.



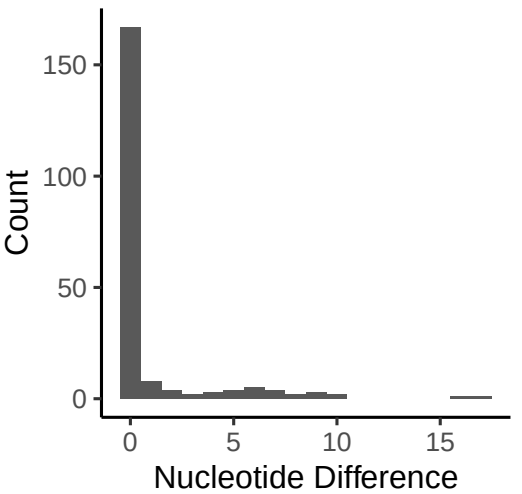
IGHV1−69*04_09_G112

1336 sequences assigned
1210 (90.6%) exact matches, in which:
1209 unique CDR3
6 unique J



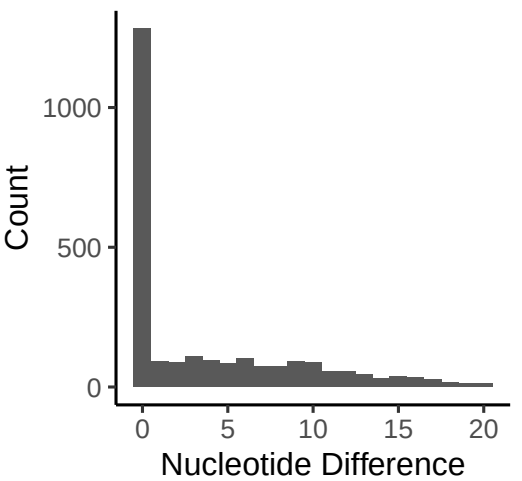
IGHV2−26*01

206 sequences assigned
167 (81.1%) exact matches, in which:
167 unique CDR3
5 unique J



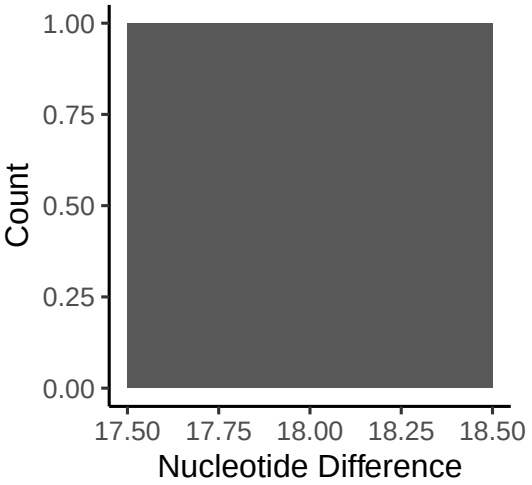
IGHV3−7*01

2537 sequences assigned
1282 (50.5%) exact matches, in which:
1237 unique CDR3
6 unique J



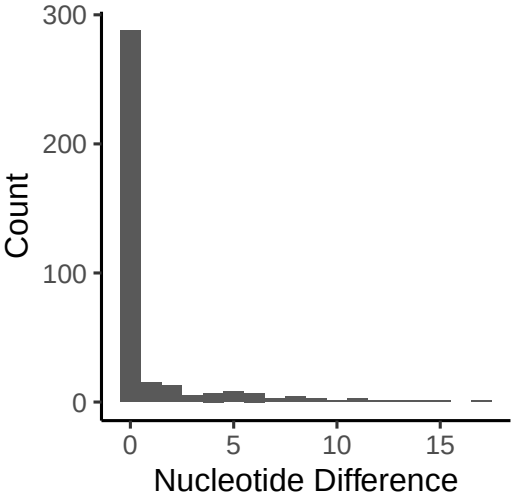
IGHV1−69D*01

2 sequences assigned
No exact matches.



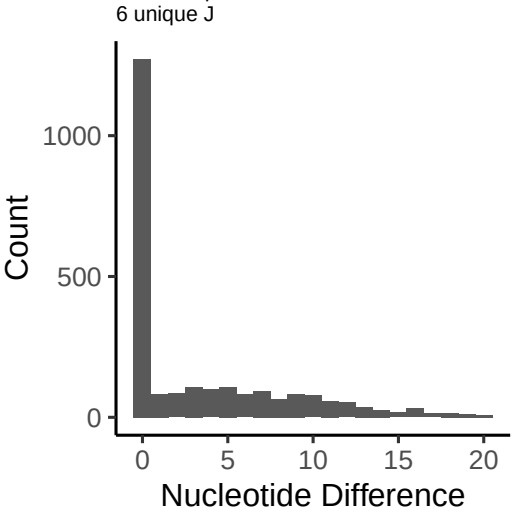
IGHV2−70*11_15

363 sequences assigned
288 (79.3%) exact matches, in which:
287 unique CDR3
4 unique J



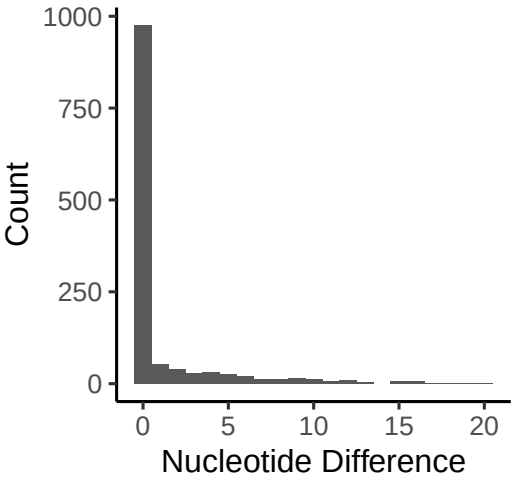
IGHV3−7*03

2436 sequences assigned
1272 (52.2%) exact matches, in which:
1227 unique CDR3
6 unique J



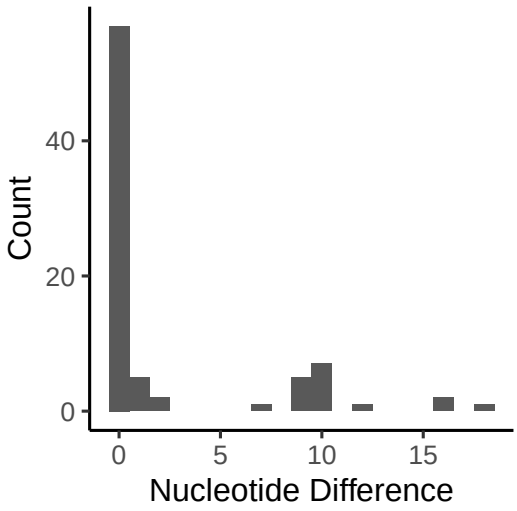
IGHV3−9*01

1281 sequences assigned
975 (76.1%) exact matches, in which:
961 unique CDR3
6 unique J



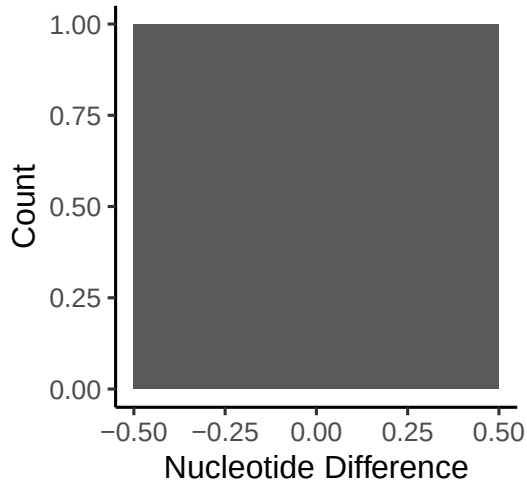
IGHV3−13*01

82 sequences assigned
57 (69.5%) exact matches, in which:
54 unique CDR3
5 unique J



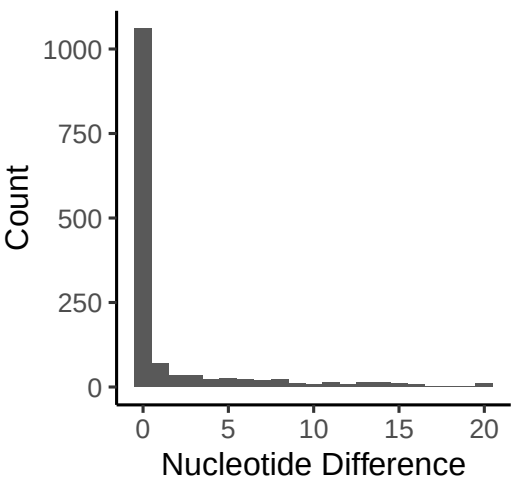
IGHV3−19*01

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



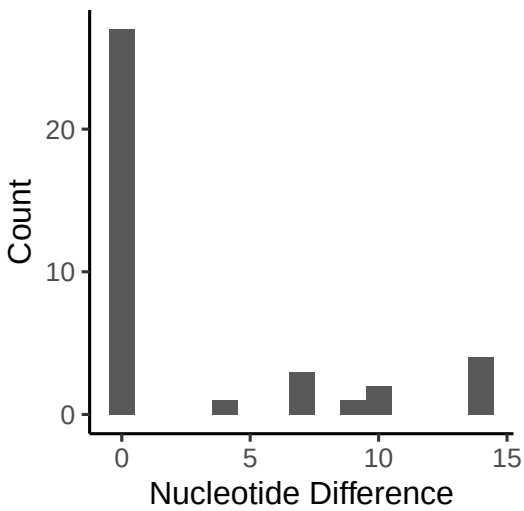
IGHV3−11*01

1424 sequences assigned
1060 (74.4%) exact matches, in which:
1034 unique CDR3
6 unique J



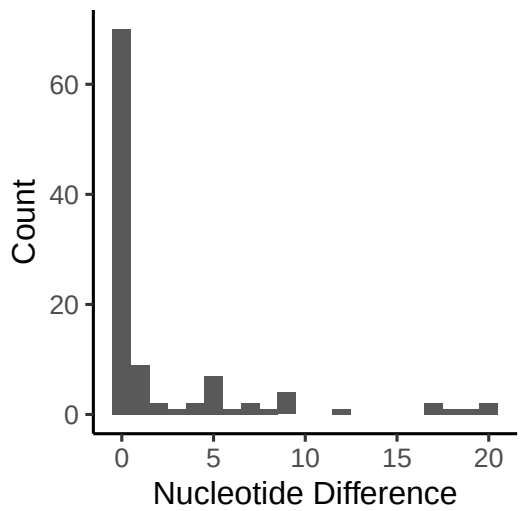
IGHV3−13*05

38 sequences assigned
27 (71.1%) exact matches, in which:
27 unique CDR3
5 unique J



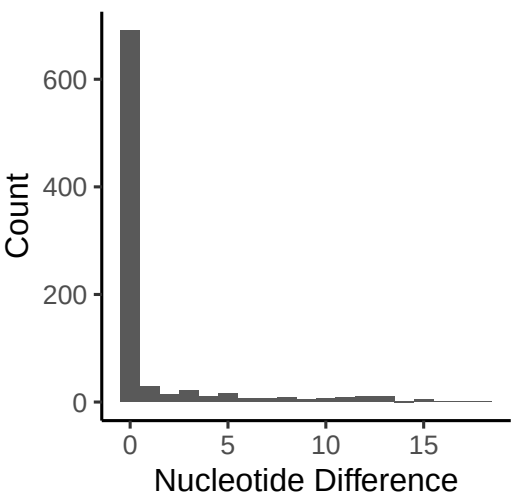
IGHV3−20*01_02

107 sequences assigned
70 (65.4%) exact matches, in which:
67 unique CDR3
5 unique J



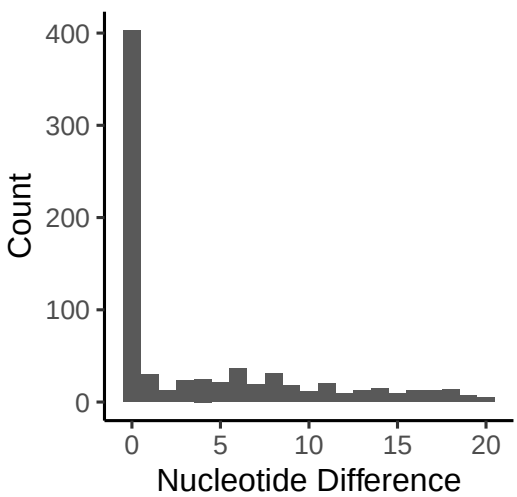
IGHV3−11*06

854 sequences assigned
691 (80.9%) exact matches, in which:
670 unique CDR3
6 unique J



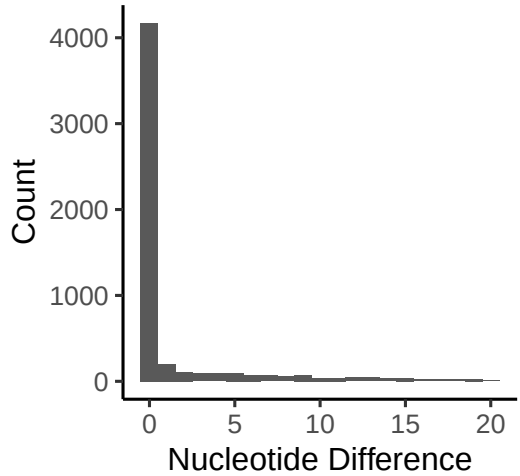
IGHV3−15*01_02

763 sequences assigned
403 (52.8%) exact matches, in which:
393 unique CDR3
6 unique J



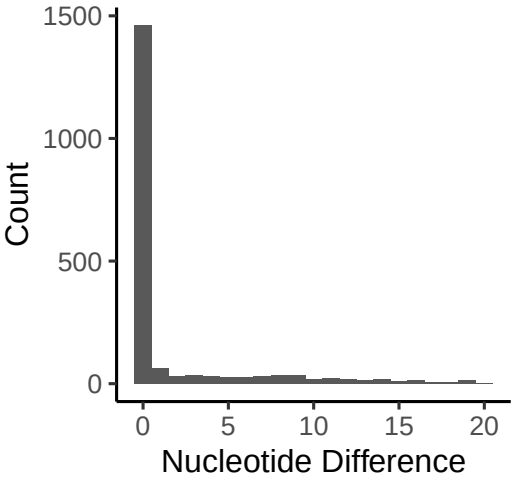
IGHV3−21*01_02

5423 sequences assigned
4171 (76.9%) exact matches, in which:
4016 unique CDR3
6 unique J



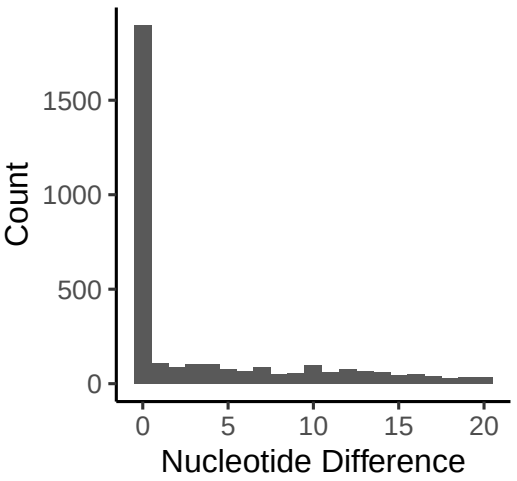
IGHV3−30−3*01

1938 sequences assigned
1461 (75.4%) exact matches, in which:
1437 unique CDR3
6 unique J



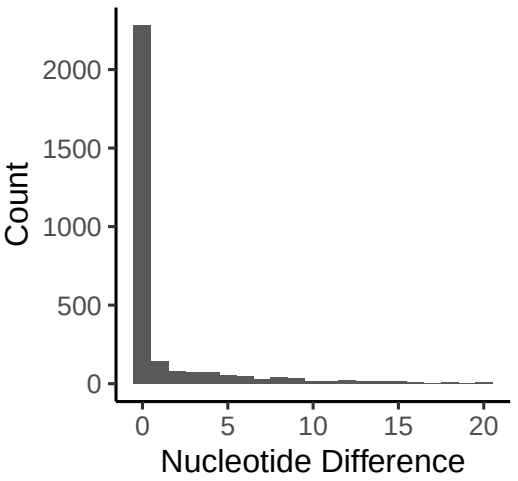
IGHV3−48*02

3324 sequences assigned
1896 (57%) exact matches, in which:
1811 unique CDR3
6 unique J



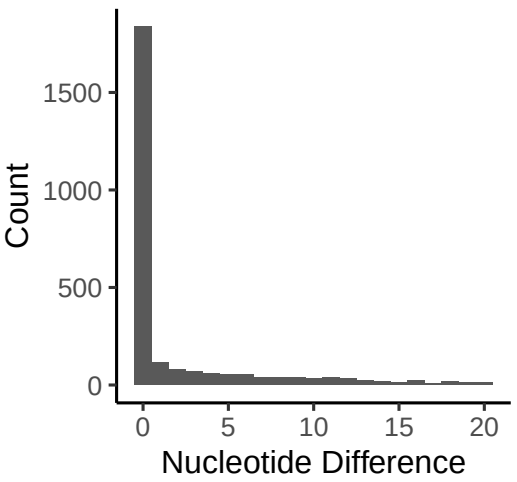
IGHV3−53*01_02

3011 sequences assigned
2281 (75.8%) exact matches, in which:
2199 unique CDR3
6 unique J



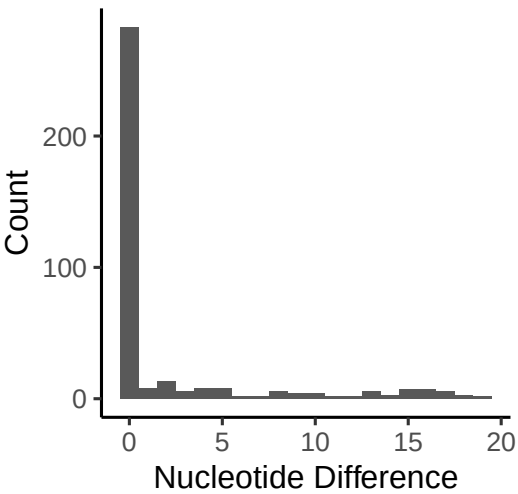
IGHV3−33*01

2637 sequences assigned
1837 (69.7%) exact matches, in which:
1797 unique CDR3
6 unique J



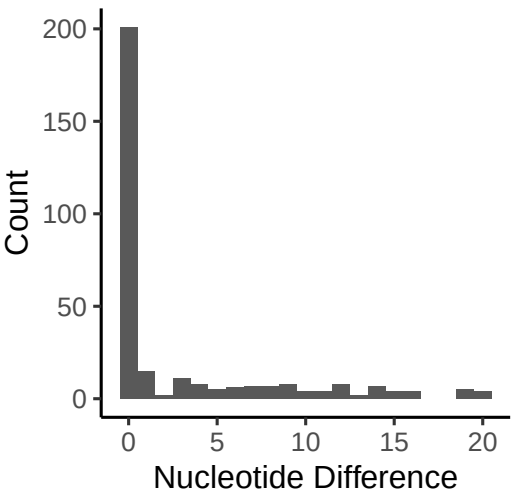
IGHV3−49*03_05

385 sequences assigned
283 (73.5%) exact matches, in which:
279 unique CDR3
5 unique J



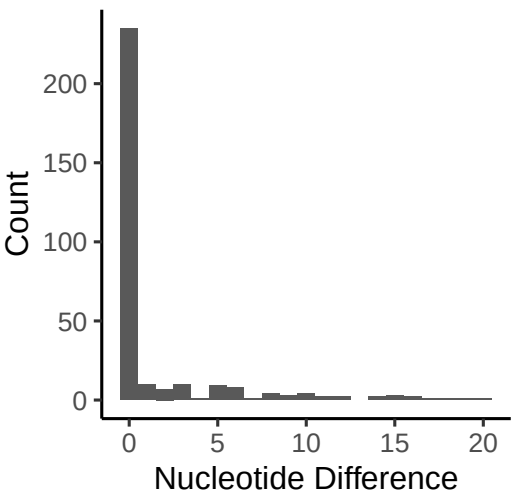
IGHV3−64*01

323 sequences assigned
201 (62.2%) exact matches, in which:
192 unique CDR3
5 unique J



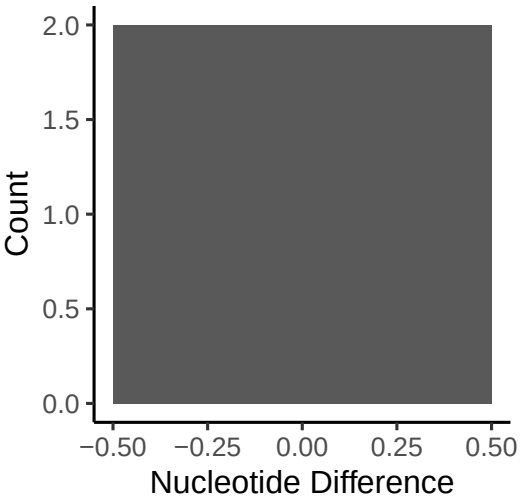
IGHV3−43*01

342 sequences assigned
235 (68.7%) exact matches, in which:
228 unique CDR3
6 unique J



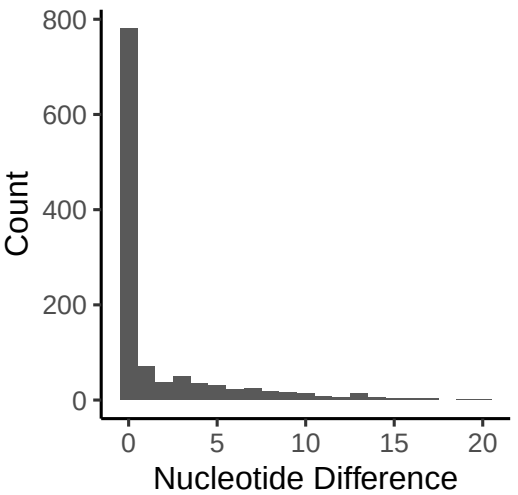
IGHV3−52*01_03

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
1 unique J



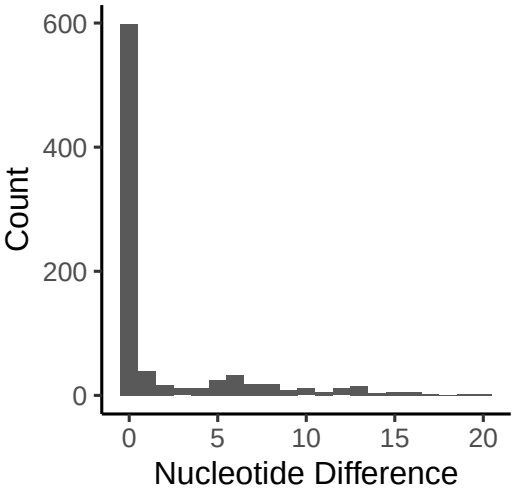
IGHV3−66*01

1147 sequences assigned
781 (68.1%) exact matches, in which:
749 unique CDR3
6 unique J



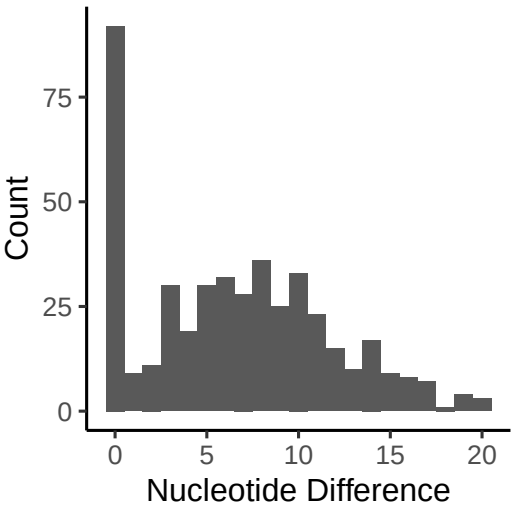
IGHV3−66*02

866 sequences assigned
599 (69.2%) exact matches, in which:
581 unique CDR3
6 unique J



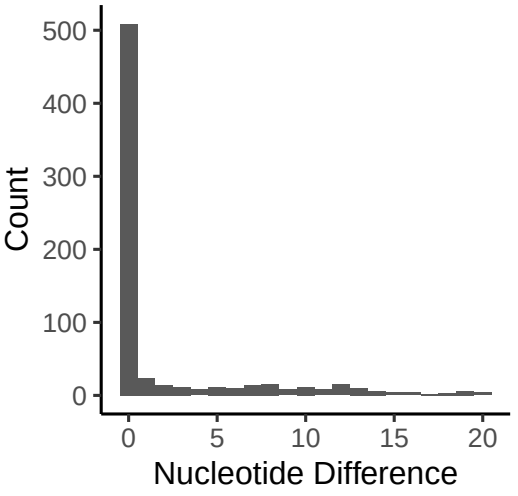
IGHV3−72*01

453 sequences assigned
92 (20.3%) exact matches, in which:
88 unique CDR3
6 unique J



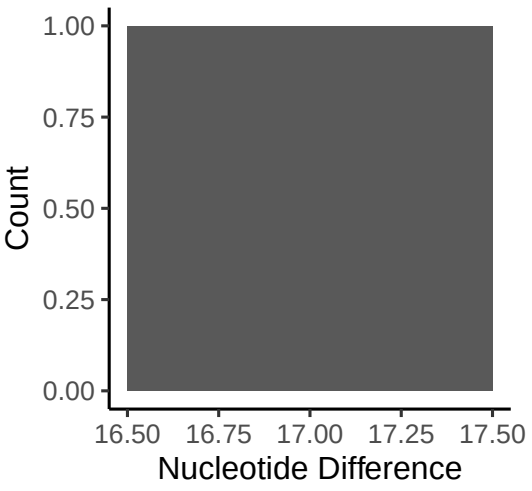
IGHV3−64D*09

706 sequences assigned
509 (72.1%) exact matches, in which:
499 unique CDR3
6 unique J



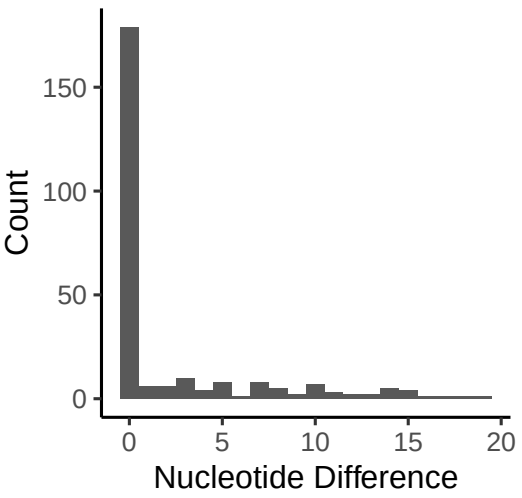
IGHV3−69−1*01

1 sequences assigned
No exact matches.



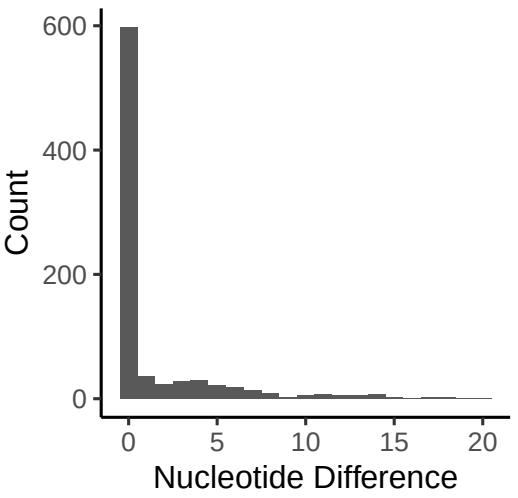
IGHV3−73*01_02

258 sequences assigned
179 (69.4%) exact matches, in which:
164 unique CDR3
5 unique J



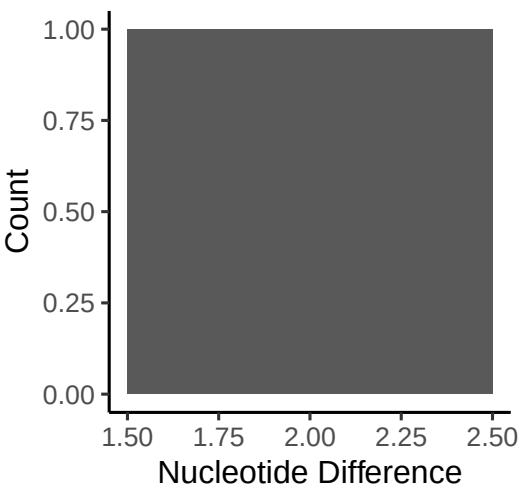
IGHV4−4*07

825 sequences assigned
598 (72.5%) exact matches, in which:
587 unique CDR3
6 unique J



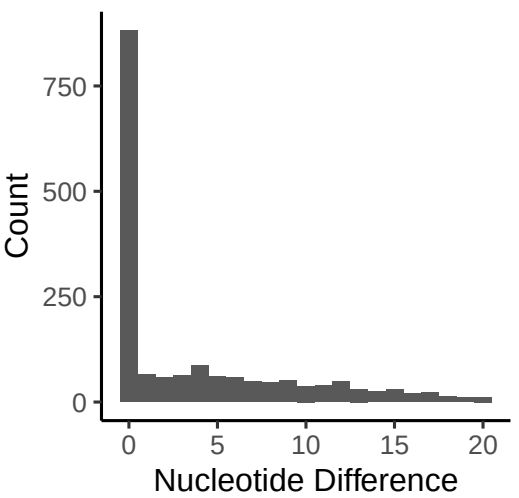
IGHV3−69−1*02

3 sequences assigned
No exact matches.



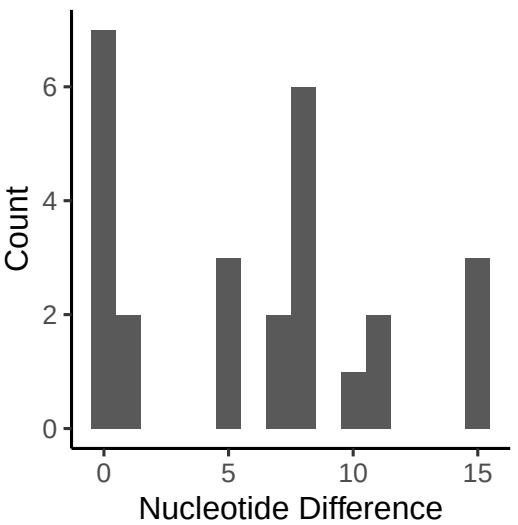
IGHV3−74*01_02

1734 sequences assigned
882 (50.9%) exact matches, in which:
857 unique CDR3
6 unique J



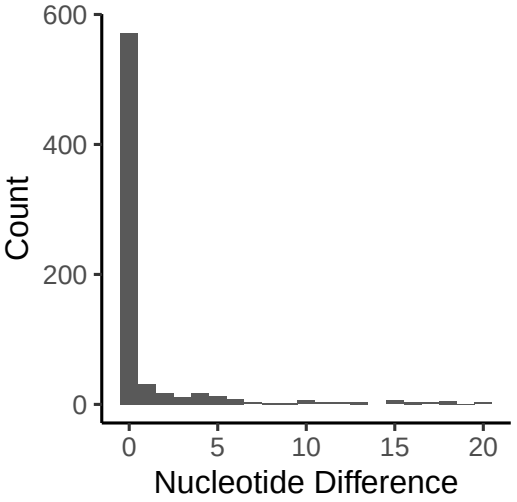
IGHV4−28*01_07

28 sequences assigned
7 (25%) exact matches, in which:
5 unique CDR3
2 unique J



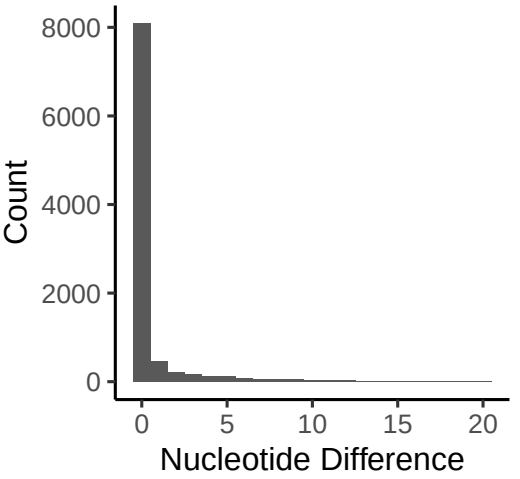
IGHV4−30−4*01

788 sequences assigned
572 (72.6%) exact matches, in which:
564 unique CDR3
6 unique J



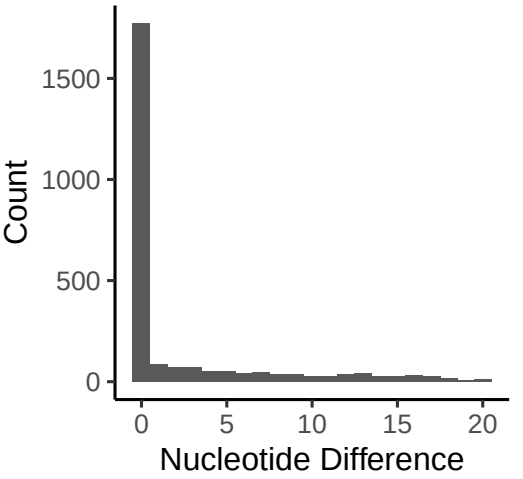
IGHV4−34*01_02

9671 sequences assigned
8089 (83.6%) exact matches, in which:
7977 unique CDR3
6 unique J



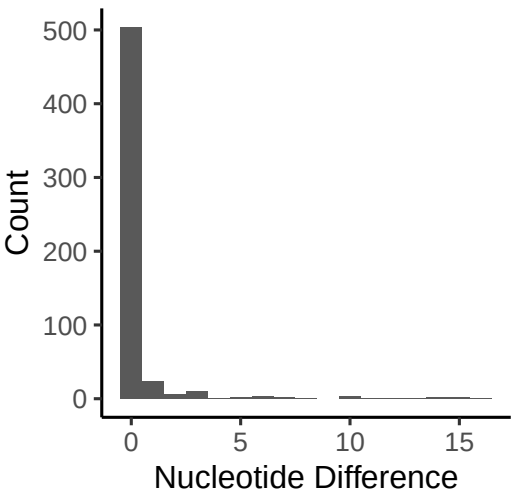
IGHV4−39*01_05

2643 sequences assigned
1772 (67%) exact matches, in which:
1735 unique CDR3
6 unique J



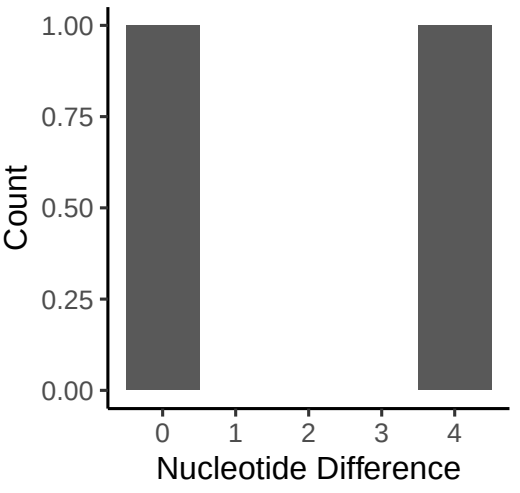
IGHV4−30−2*01

568 sequences assigned
504 (88.7%) exact matches, in which:
499 unique CDR3
6 unique J



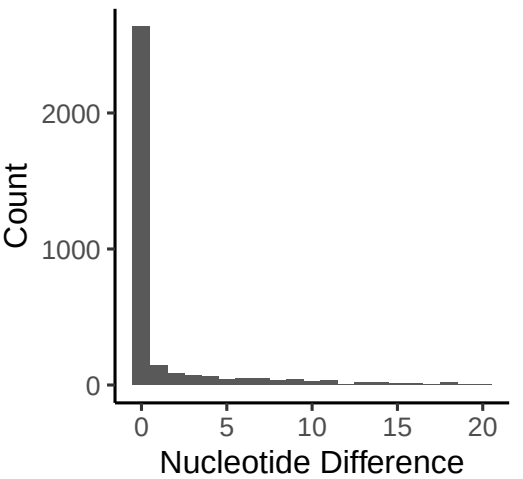
IGHV4−38−2*01

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



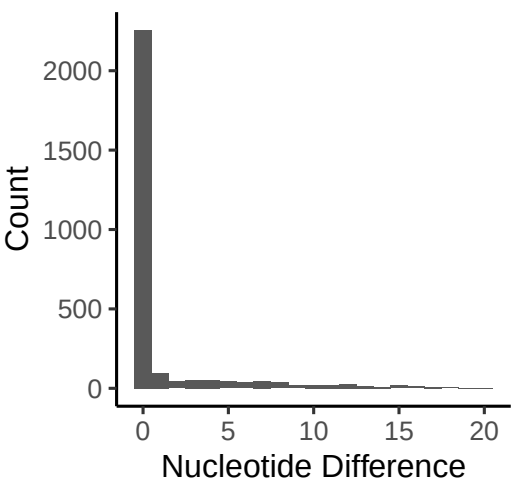
IGHV4−59*08

3373 sequences assigned
2634 (78.1%) exact matches, in which:
2555 unique CDR3
6 unique J



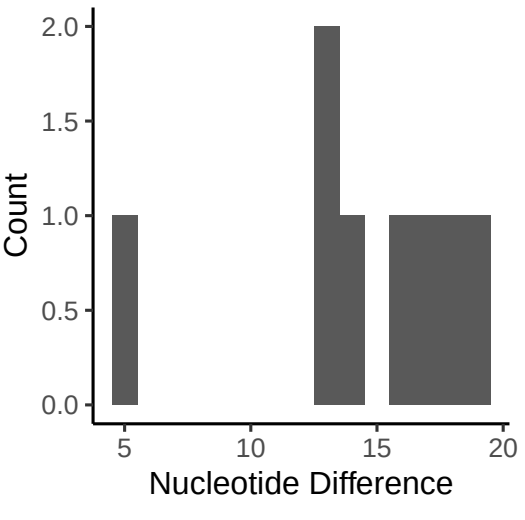
IGHV4−31*03_04

2843 sequences assigned
2256 (79.4%) exact matches, in which:
2220 unique CDR3
6 unique J



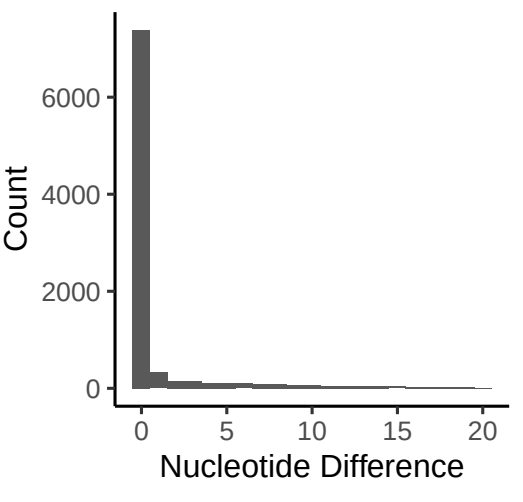
IGHV4−38−2*02

10 sequences assigned
No exact matches.



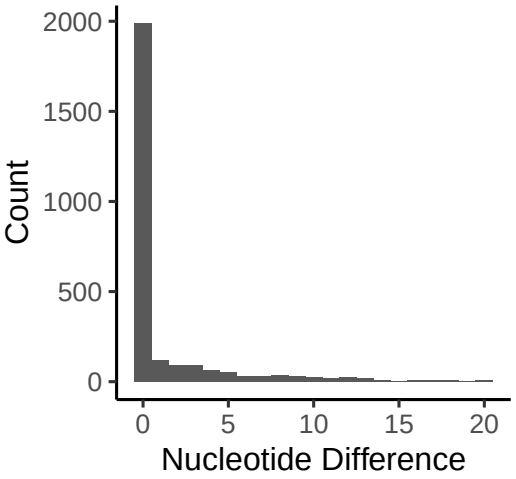
IGHV4−59*01_07

9056 sequences assigned
7384 (81.5%) exact matches, in which:
7257 unique CDR3
6 unique J



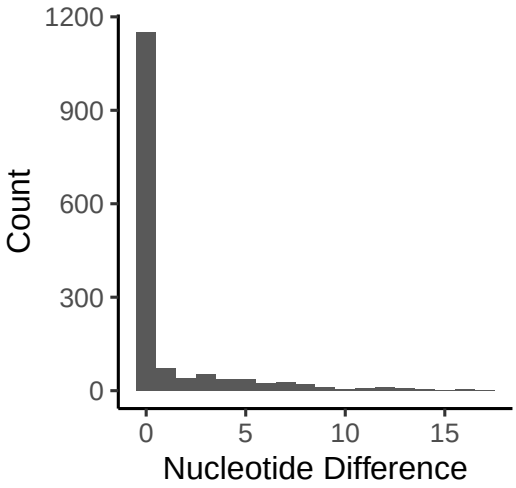
IGHV4−61*02

2702 sequences assigned
1988 (73.6%) exact matches, in which:
1949 unique CDR3
6 unique J



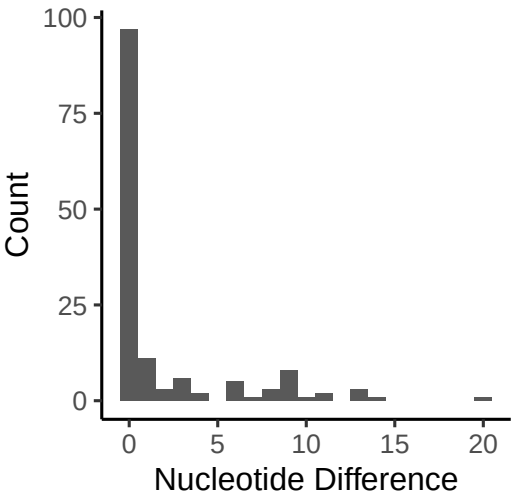
IGHV6−1*01_02

1524 sequences assigned
1150 (75.5%) exact matches, in which:
1148 unique CDR3
6 unique J



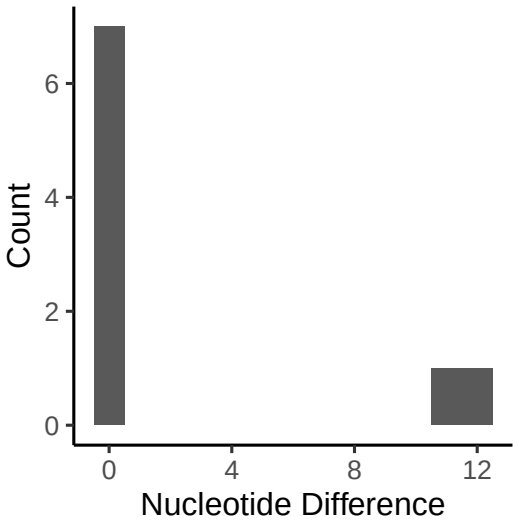
IGHV5−10−1*01_03

145 sequences assigned
97 (66.9%) exact matches, in which:
97 unique CDR3
5 unique J



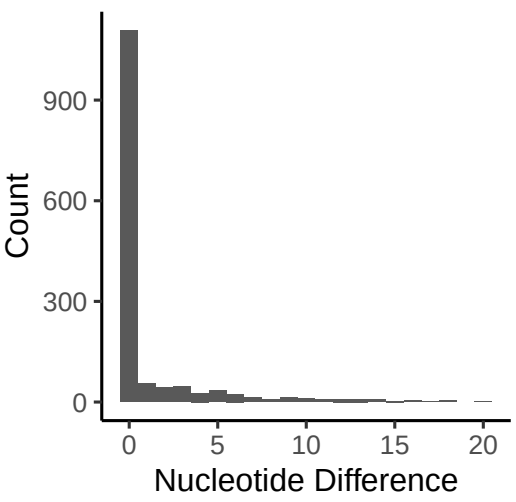
IGHV7−4−1*01

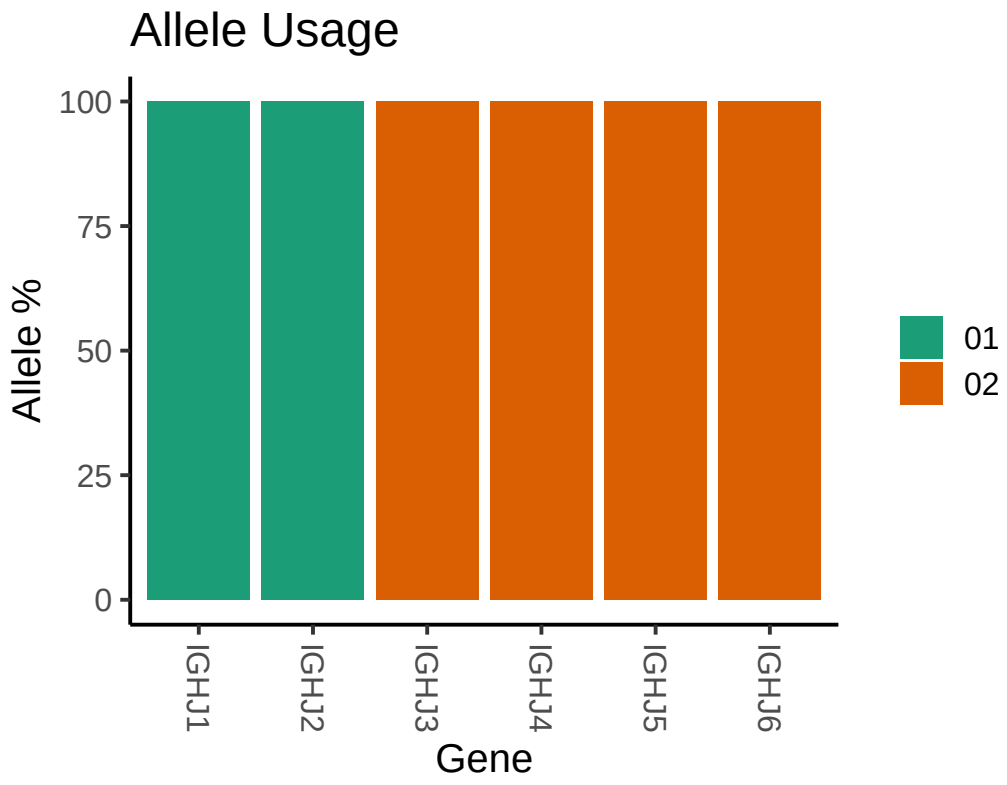
9 sequences assigned
7 (77.8%) exact matches, in which:
7 unique CDR3
3 unique J



IGHV5−51*01_03

1436 sequences assigned
1108 (77.2%) exact matches, in which:
1106 unique CDR3
6 unique J




Allele Usage
100
75
50
25
0
Allele %
IGHJ1
IGHJ2
IGHJ3
IGHJ4
IGHJ5
IGHJ6
Gene
01
02

Warning − no inferred sequences found.

Novel sequence(s) IGHV4−59*02_G88A 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.

Warning − no inferred sequences found.

Novel sequence(s) IGHV3−11*06_T300C IGHV4−38−2*02_A70G IGHV4−39*02_C258G IGHV5−51*07_A128G are not listed in the genotype and will be ignored.

Warning − no inferred sequences found.

Novel sequence(s) IGHV4−39*02_C258G IGHV4−59*02_G88A 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.

Warning − no inferred sequences found.

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

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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.