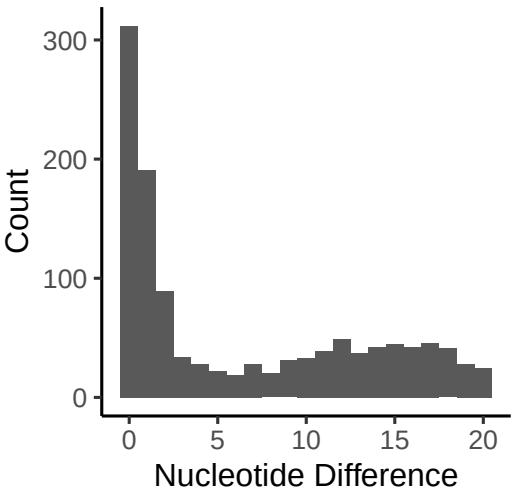
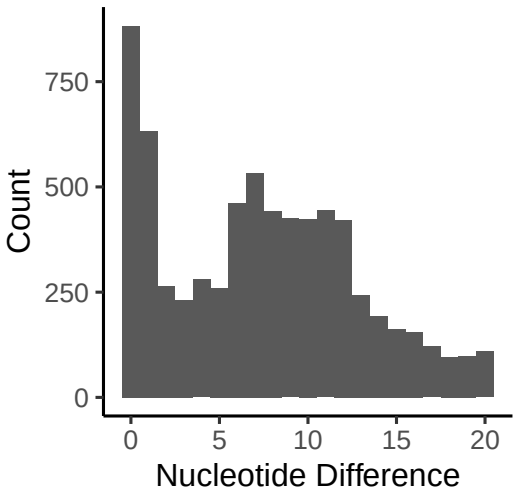
IGHV1−2*04

1449 sequences assigned
312 (21.5%) exact matches, in which:
295 unique CDR3
6 unique J



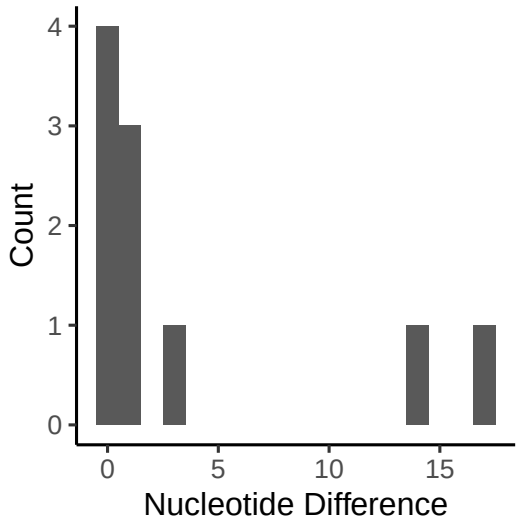
IGHV1−18*01

10135 sequences assigned
883 (8.7%) exact matches, in which:
807 unique CDR3
6 unique J



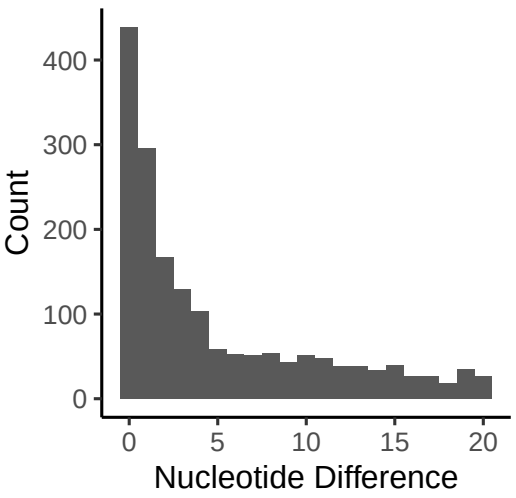
IGHV1−45*02

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



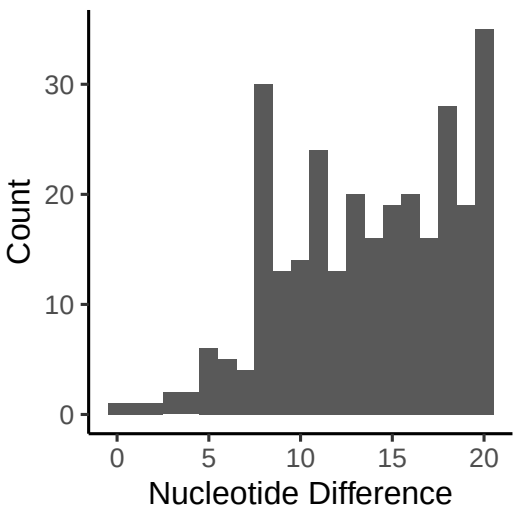
IGHV1−3*01_05

1902 sequences assigned
439 (23.1%) exact matches, in which:
408 unique CDR3
6 unique J



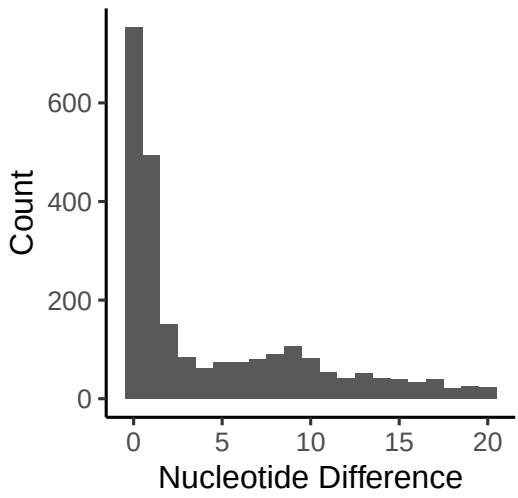
IGHV1−18*04

7048 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



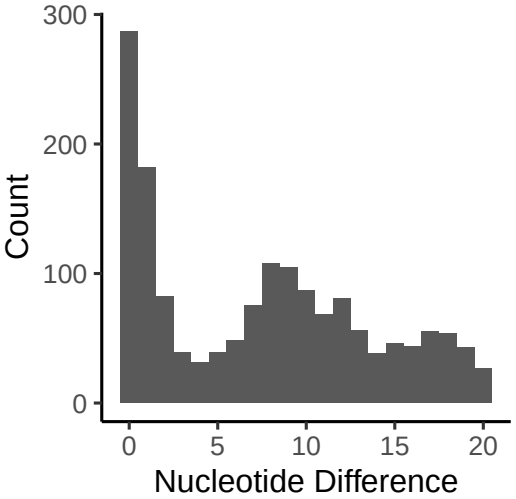
IGHV1−46*01

2767 sequences assigned
754 (27.2%) exact matches, in which:
693 unique CDR3
6 unique J



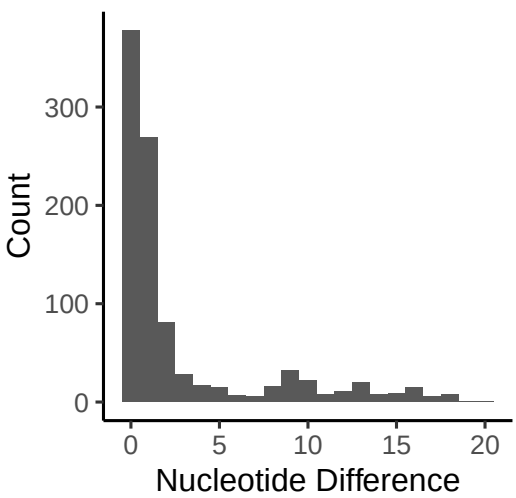
IGHV1−8*01

1689 sequences assigned
287 (17%) exact matches, in which:
266 unique CDR3
6 unique J



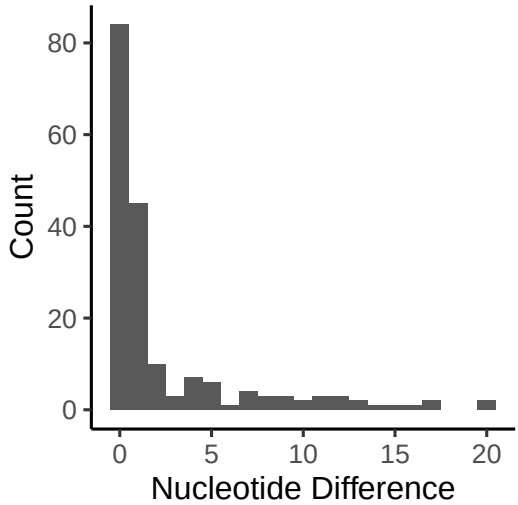
IGHV1−24*01

997 sequences assigned
378 (37.9%) exact matches, in which:
349 unique CDR3
6 unique J



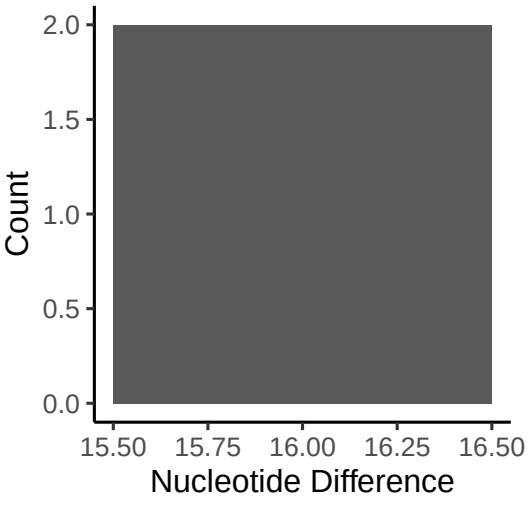
IGHV1−58*01_03

184 sequences assigned
84 (45.7%) exact matches, in which:
77 unique CDR3
5 unique J



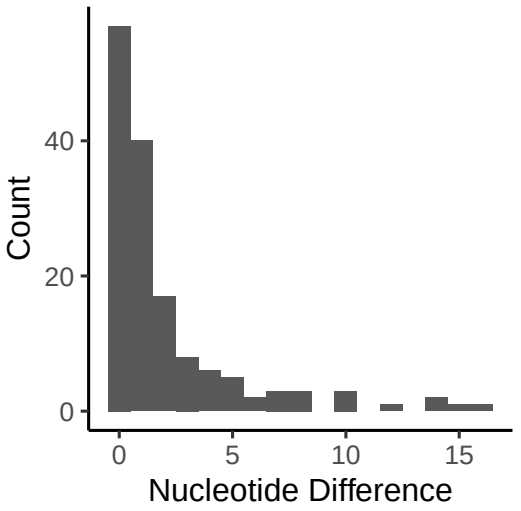
IGHV1−69−2*01

3 sequences assigned
No exact matches.



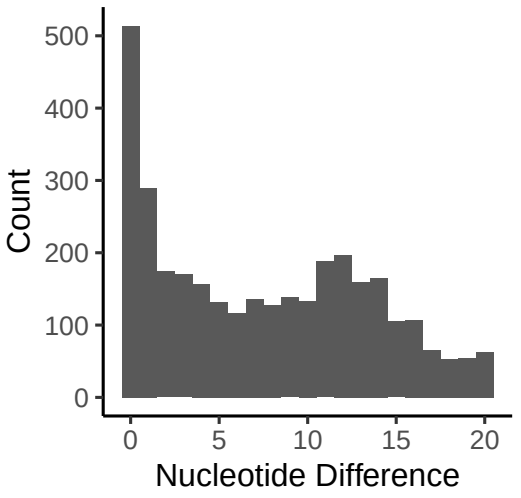
IGHV2−26*01

160 sequences assigned
57 (35.6%) exact matches, in which:
53 unique CDR3
4 unique J



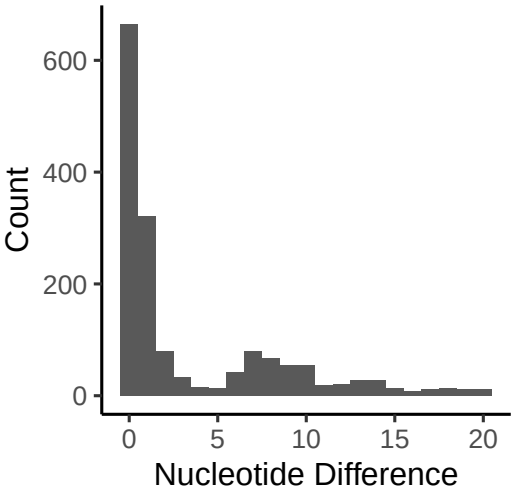
IGHV3−7*01

3493 sequences assigned
514 (14.7%) exact matches, in which:
366 unique CDR3
6 unique J



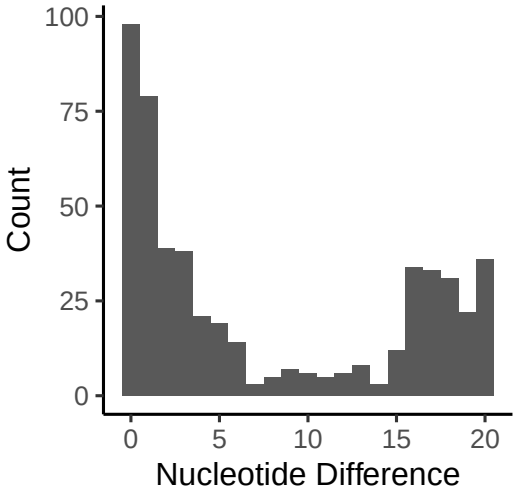
IGHV1−69*06_14

1701 sequences assigned
665 (39.1%) exact matches, in which:
628 unique CDR3
6 unique J



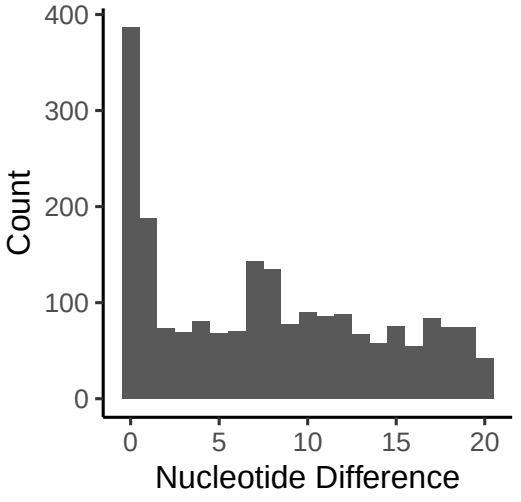
IGHV2−70*01

782 sequences assigned
98 (12.5%) exact matches, in which:
90 unique CDR3
4 unique J



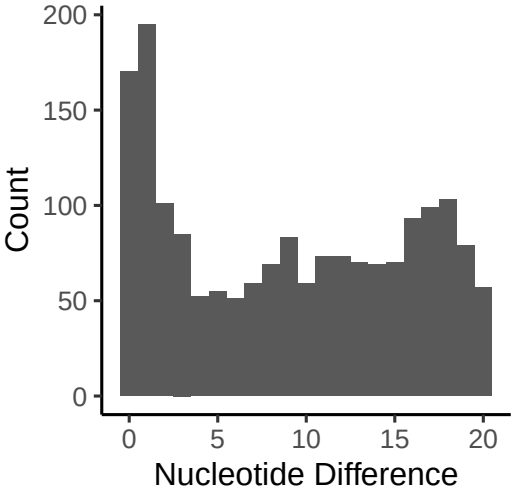
IGHV3−7*03

2360 sequences assigned
387 (16.4%) exact matches, in which:
277 unique CDR3
5 unique J



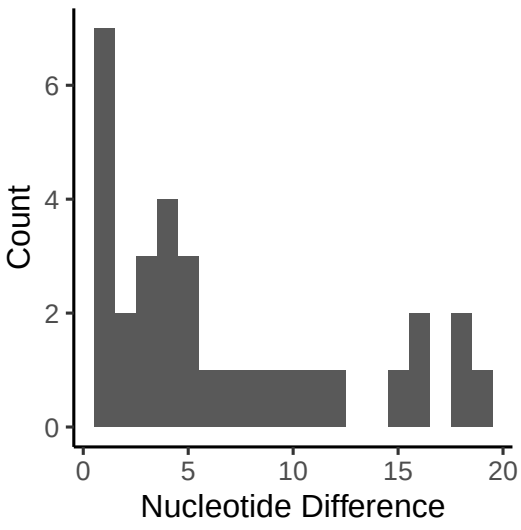
IGHV2−5*02

3698 sequences assigned
170 (4.6%) exact matches, in which:
146 unique CDR3
5 unique J



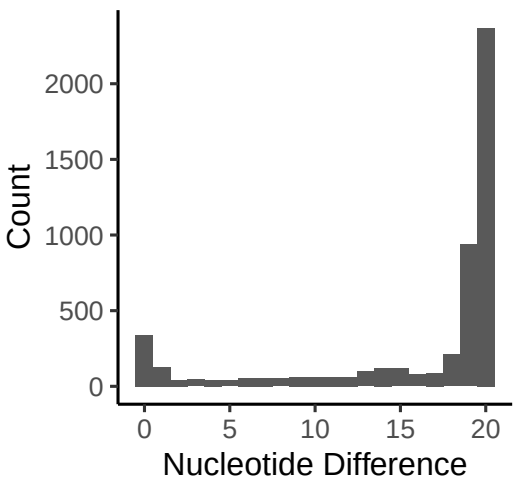
IGHV2−70*12

44 sequences assigned
No exact matches.



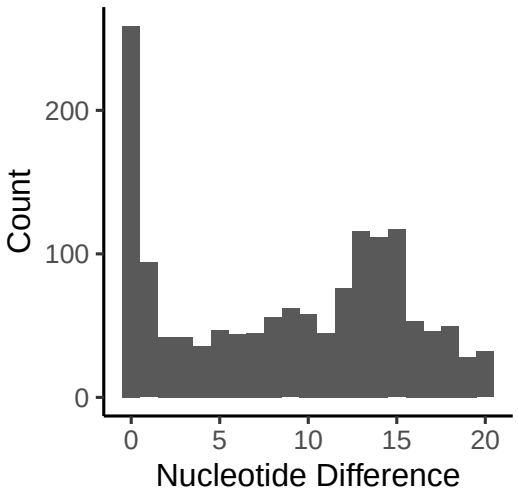
IGHV3−9*01

6745 sequences assigned
338 (5%) exact matches, in which:
256 unique CDR3
6 unique J



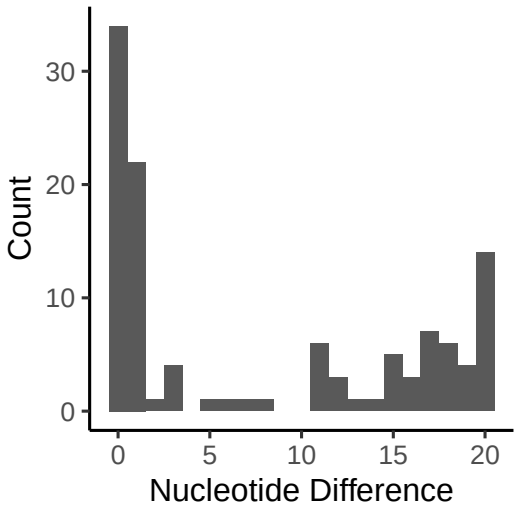
IGHV3−11*01

1703 sequences assigned
259 (15.2%) exact matches, in which:
197 unique CDR3
5 unique J



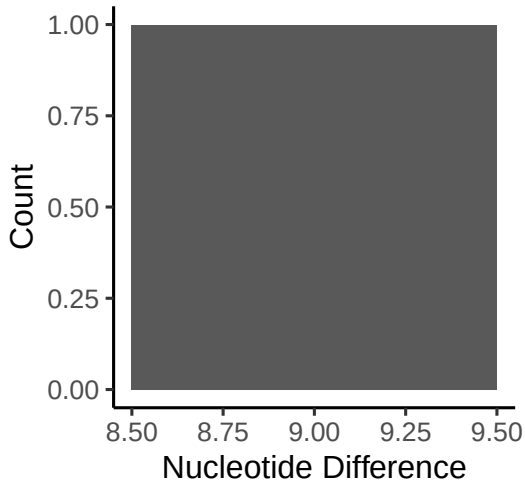
IGHV3−13*01

142 sequences assigned
34 (23.9%) exact matches, in which:
28 unique CDR3
5 unique J



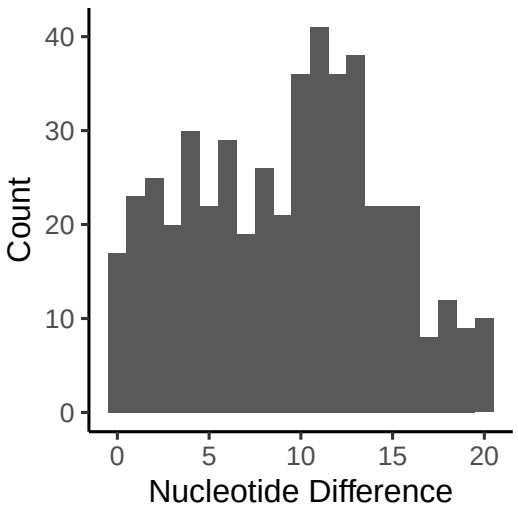
IGHV3−19*01

1 sequences assigned
No exact matches.



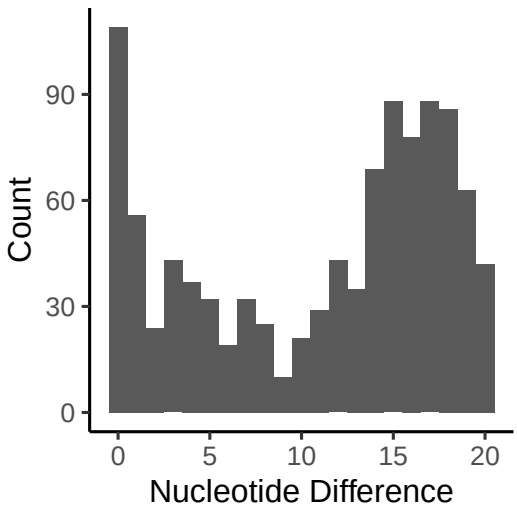
IGHV3−11*04

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



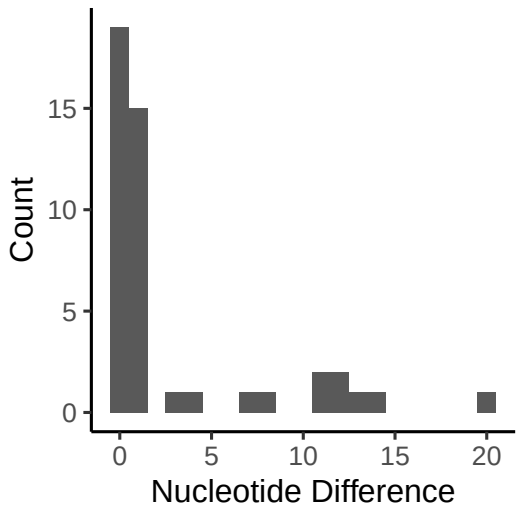
IGHV3−15*07

1430 sequences assigned
109 (7.6%) exact matches, in which:
78 unique CDR3
5 unique J



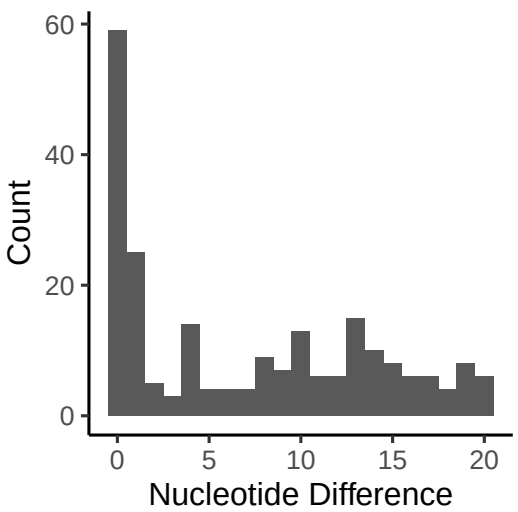
IGHV3−20*01_02

46 sequences assigned
19 (41.3%) exact matches, in which:
12 unique CDR3
3 unique J



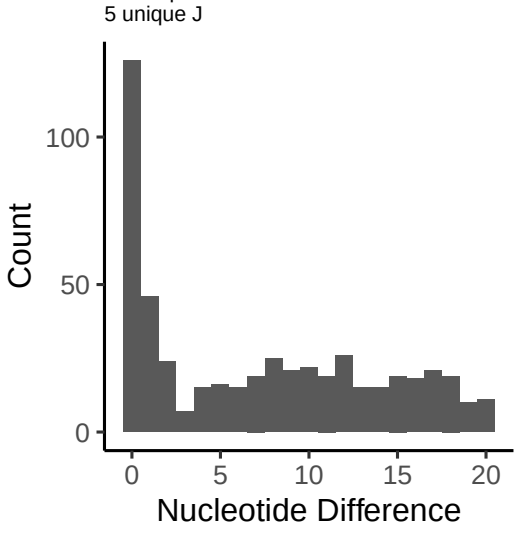
IGHV3−11*06

452 sequences assigned
59 (13.1%) exact matches, in which:
42 unique CDR3
4 unique J



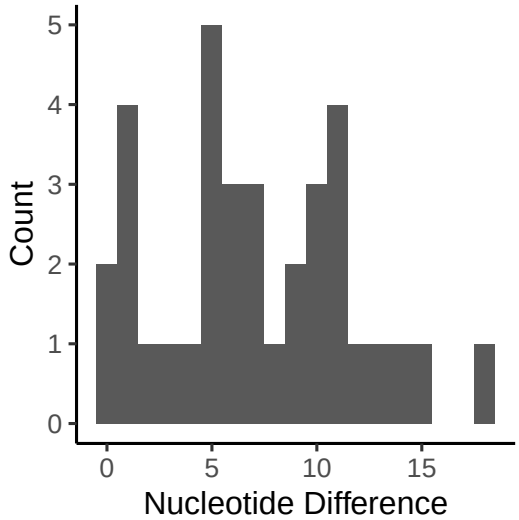
IGHV3−15*01_02

659 sequences assigned
126 (19.1%) exact matches, in which:
95 unique CDR3
5 unique J



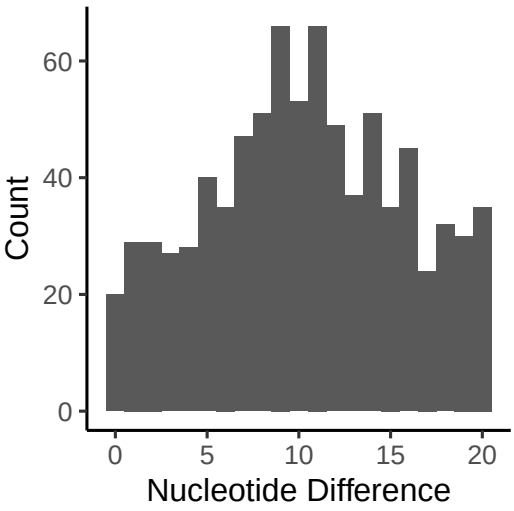
IGHV3−20*03_04

56 sequences assigned
2 (3.6%) exact matches, in which:
1 unique CDR3
1 unique J



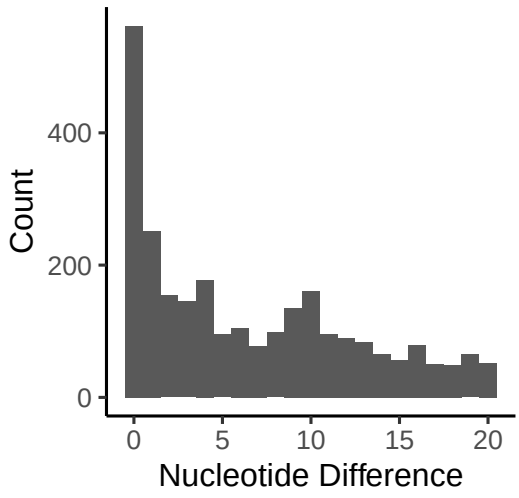
IGHV3−21*04

1408 sequences assigned
20 (1.4%) exact matches, in which:
20 unique CDR3
3 unique J



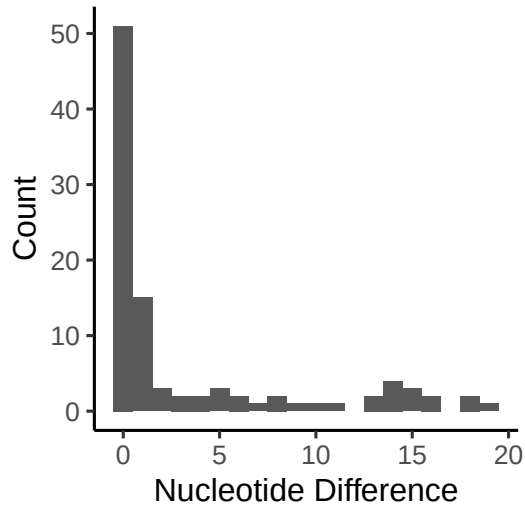
IGHV3−33*01

4364 sequences assigned
562 (12.9%) exact matches, in which:
439 unique CDR3
6 unique J



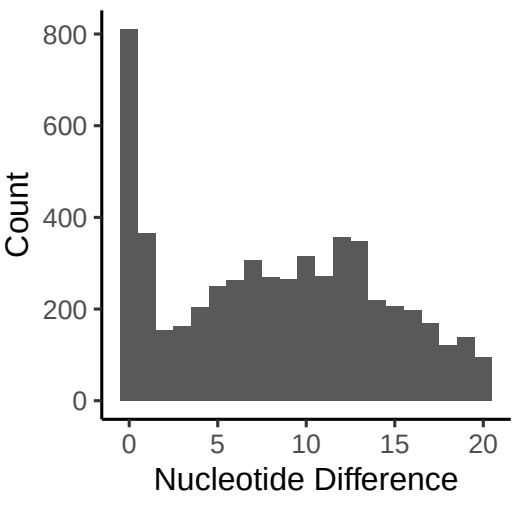
IGHV3−43*01

102 sequences assigned
51 (50%) exact matches, in which:
39 unique CDR3
6 unique J



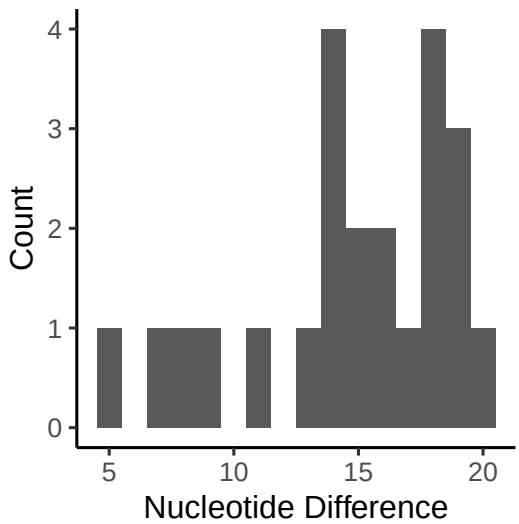
IGHV3−21*01_02

12875 sequences assigned
811 (6.3%) exact matches, in which:
580 unique CDR3
6 unique J



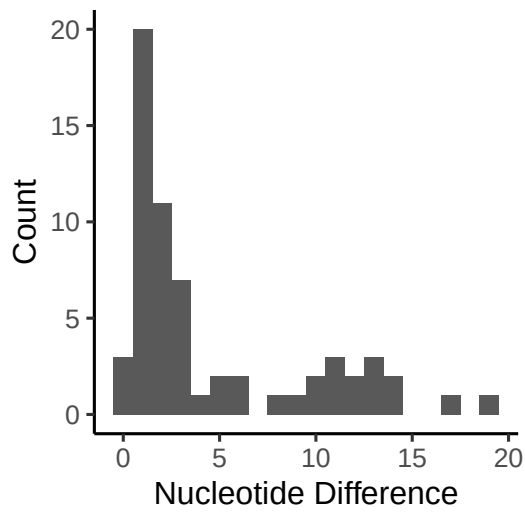
IGHV3−33*05

73 sequences assigned
No exact matches.



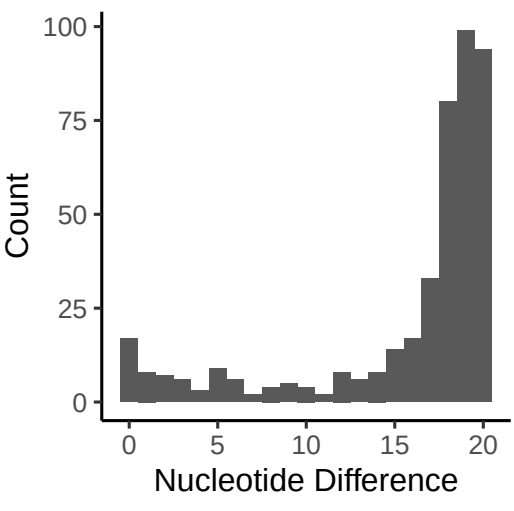
IGHV3−47*02

63 sequences assigned
3 (4.8%) exact matches, in which:
1 unique CDR3
1 unique J



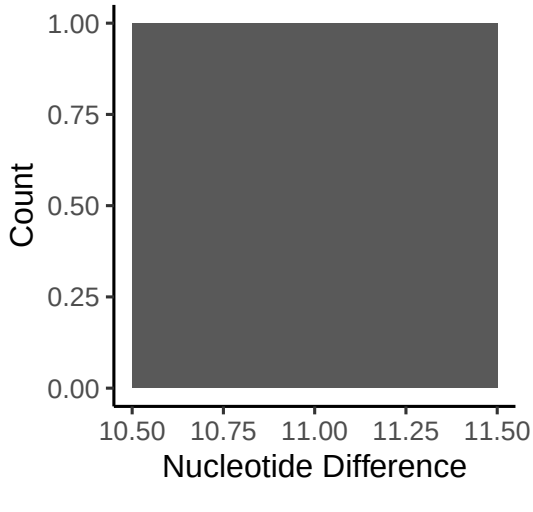
IGHV3−30*03

2736 sequences assigned
17 (0.6%) exact matches, in which:
17 unique CDR3
4 unique J



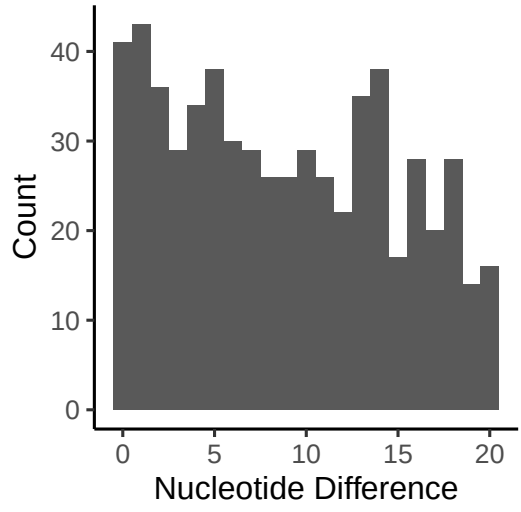
IGHV3−35*01

1 sequences assigned
No exact matches.



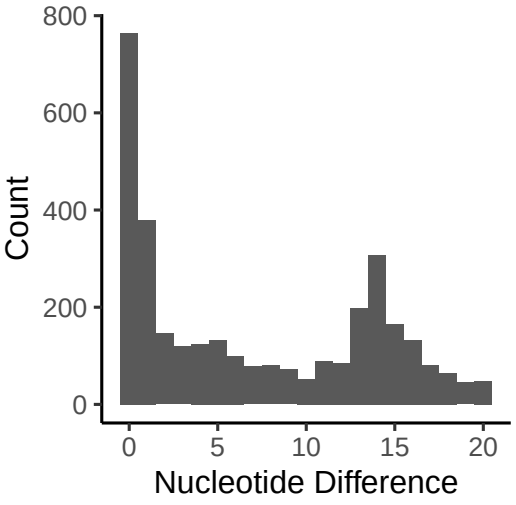
IGHV3−48*01

701 sequences assigned
41 (5.8%) exact matches, in which:
39 unique CDR3
4 unique J



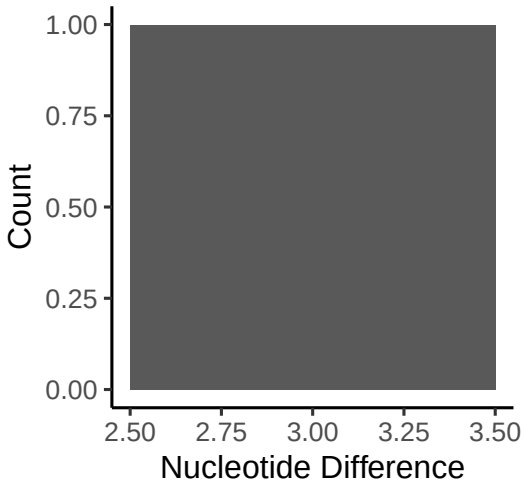
IGHV3−48*02

3641 sequences assigned
765 (21%) exact matches, in which:
530 unique CDR3
6 unique J



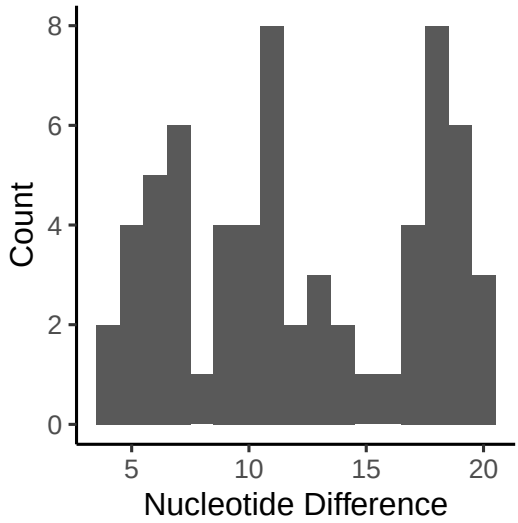
IGHV3−52*02

1 sequences assigned
No exact matches.



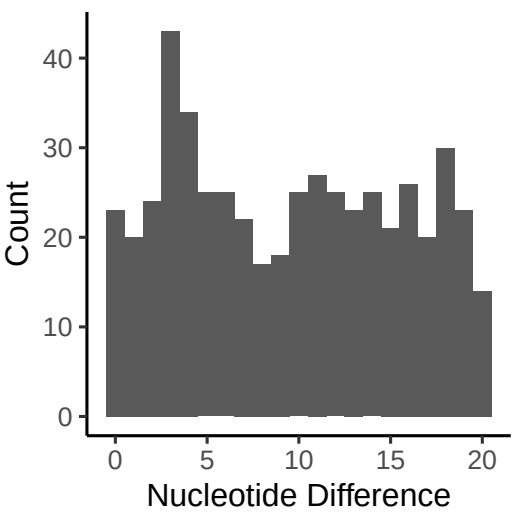
IGHV3−64*04

85 sequences assigned
No exact matches.



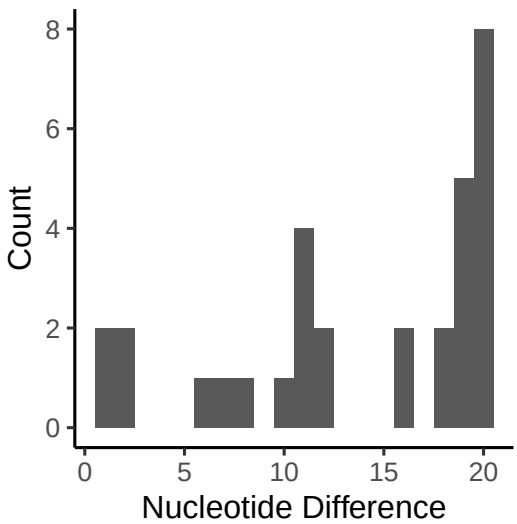
IGHV3−48*04

569 sequences assigned
23 (4%) exact matches, in which:
22 unique CDR3
3 unique J



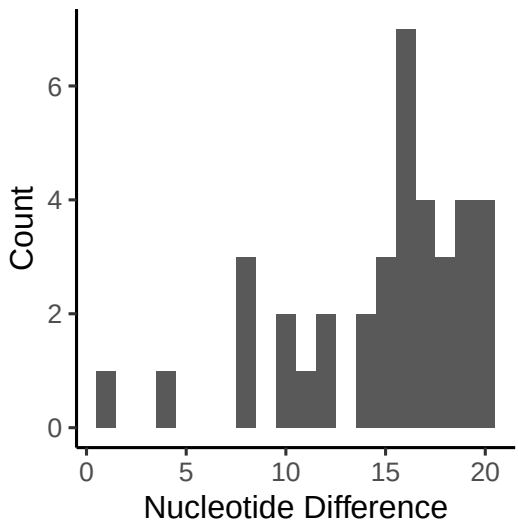
IGHV3−53*05

112 sequences assigned
No exact matches.



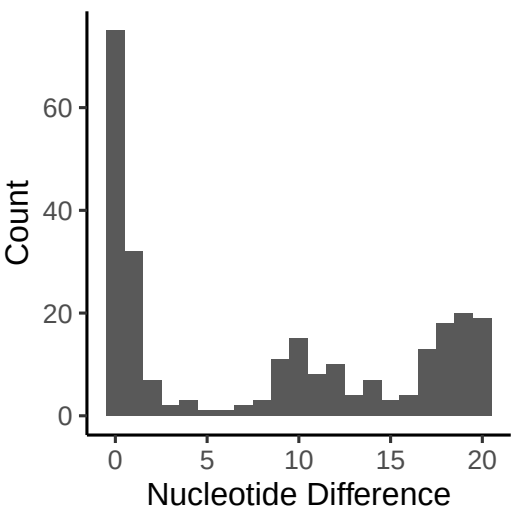
IGHV3−66*01

59 sequences assigned
No exact matches.



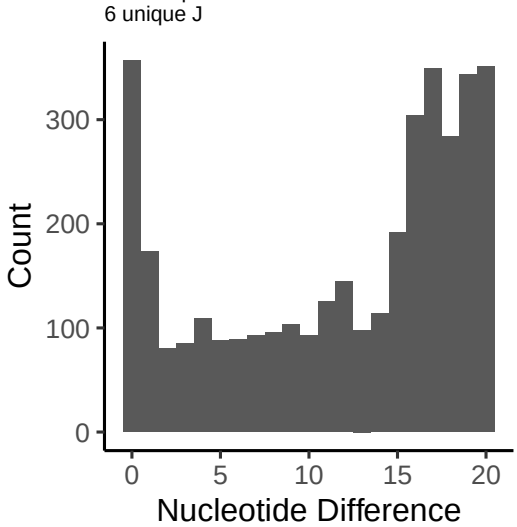
IGHV3−49*03_05

898 sequences assigned
75 (8.4%) exact matches, in which:
57 unique CDR3
5 unique J



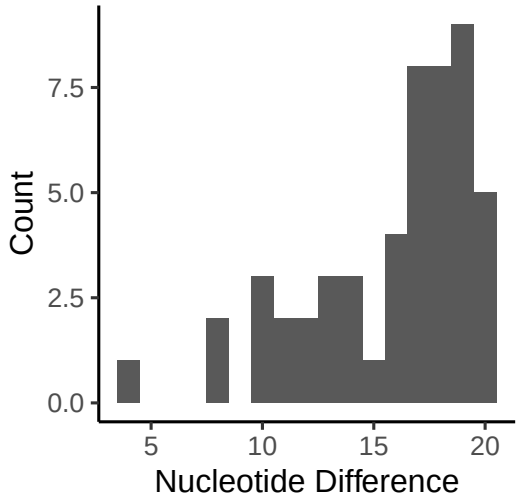
IGHV3−53*01_02

9823 sequences assigned
357 (3.6%) exact matches, in which:
259 unique CDR3
6 unique J



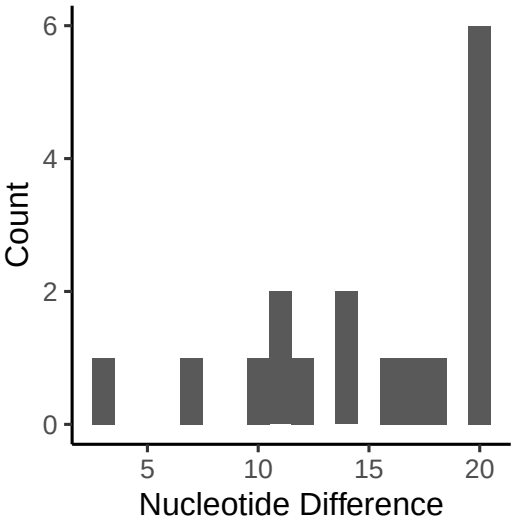
IGHV3−66*02

233 sequences assigned
No exact matches.



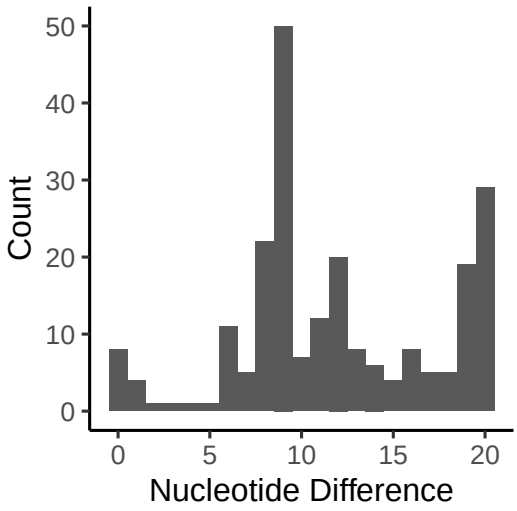
IGHV3−66*03

54 sequences assigned
No exact matches.



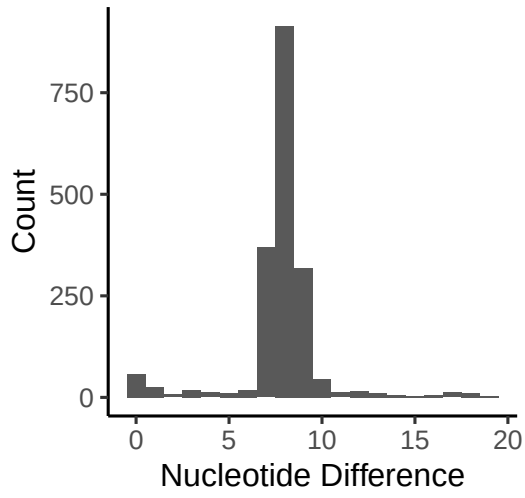
IGHV3−72*01

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



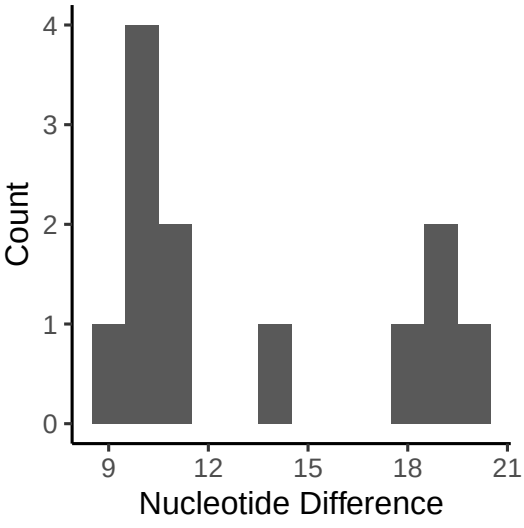
IGHV3−64D*06

1925 sequences assigned
58 (3%) exact matches, in which:
42 unique CDR3
5 unique J



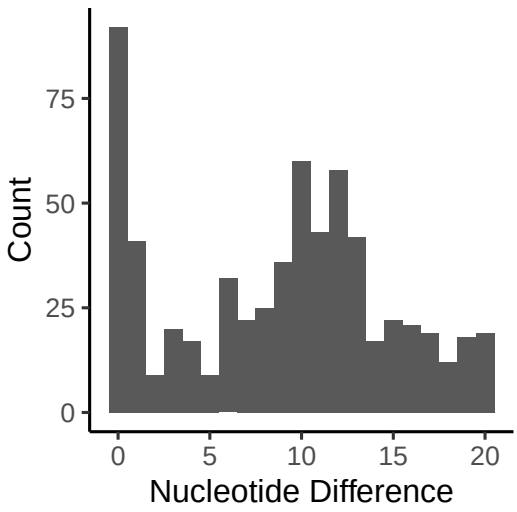
IGHV3−69−1*01

81 sequences assigned
No exact matches.



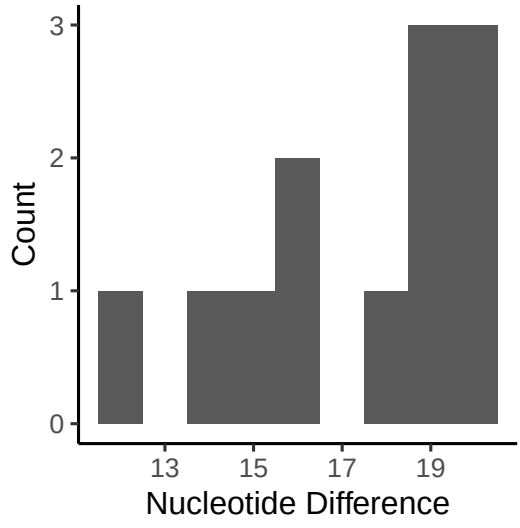
IGHV3−73*01_02

940 sequences assigned
92 (9.8%) exact matches, in which:
62 unique CDR3
4 unique J



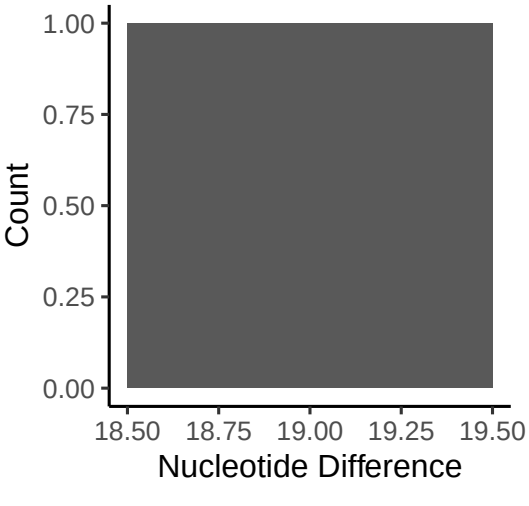
IGHV3−NL1*01

63 sequences assigned
No exact matches.



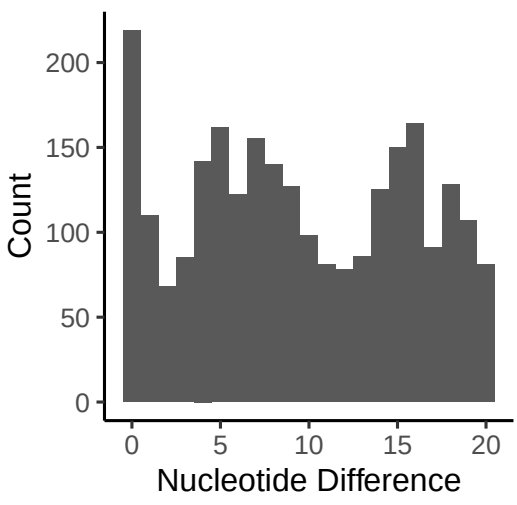
IGHV3−69−1*02

42 sequences assigned
No exact matches.



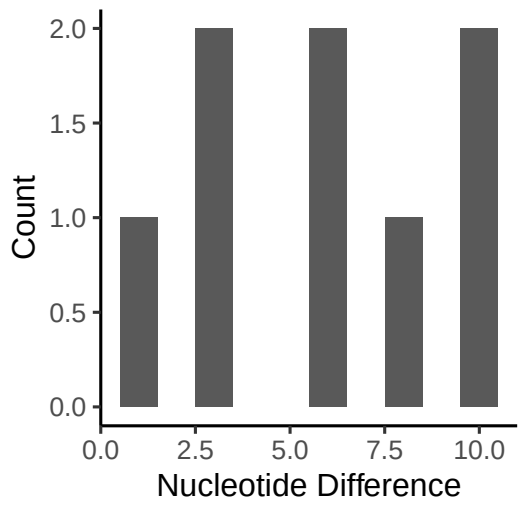
IGHV3−74*01_02

3059 sequences assigned
219 (7.2%) exact matches, in which:
162 unique CDR3
5 unique J



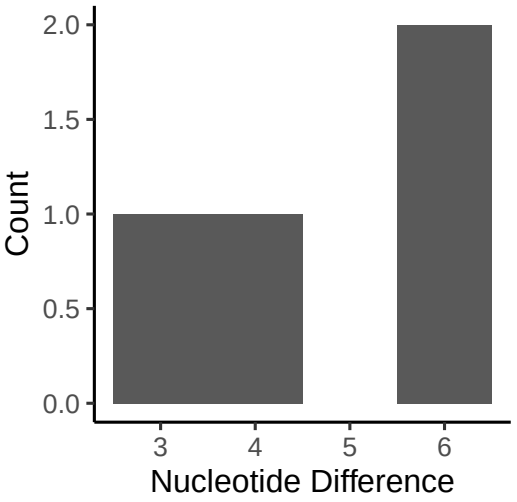
IGHV4−28*03

9 sequences assigned
No exact matches.



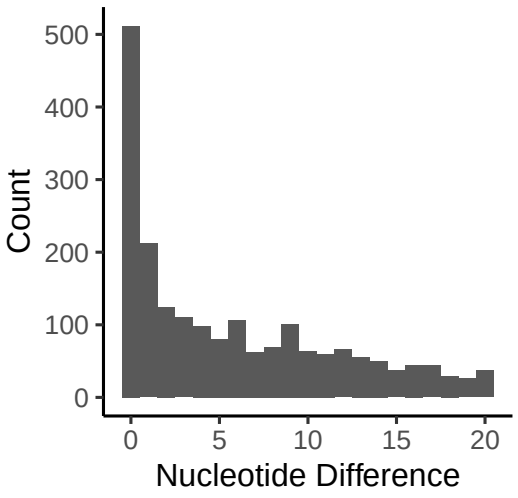
IGHV4−28*01_07

4 sequences assigned
No exact matches.



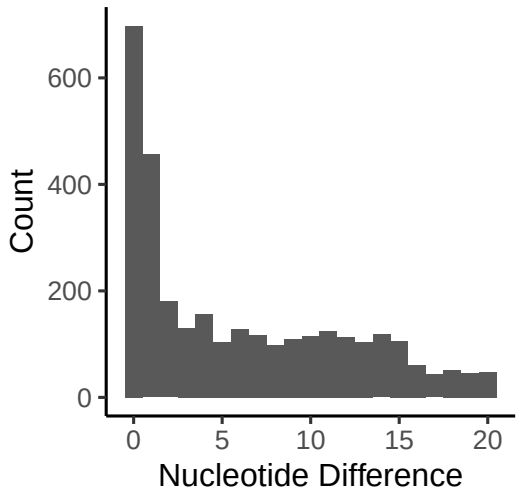
IGHV4−31*03_04

3060 sequences assigned
512 (16.7%) exact matches, in which:
461 unique CDR3
6 unique J



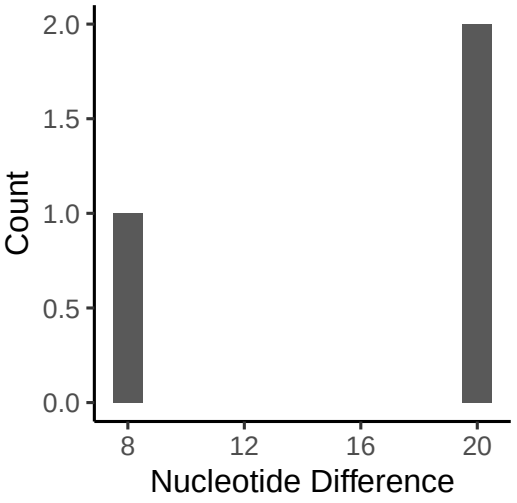
IGHV4−39*01_05

3649 sequences assigned
698 (19.1%) exact matches, in which:
629 unique CDR3
6 unique J



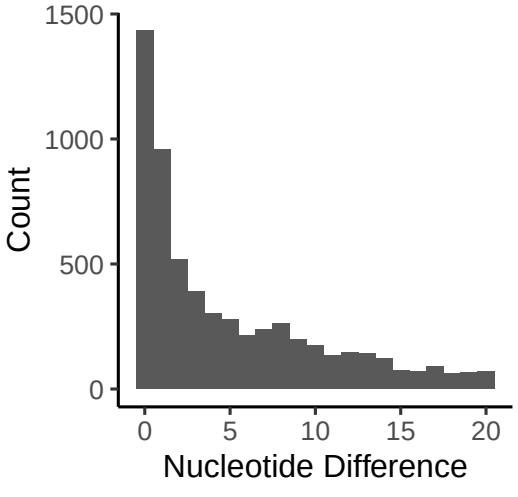
IGHV4−30−4*01

7 sequences assigned
No exact matches.



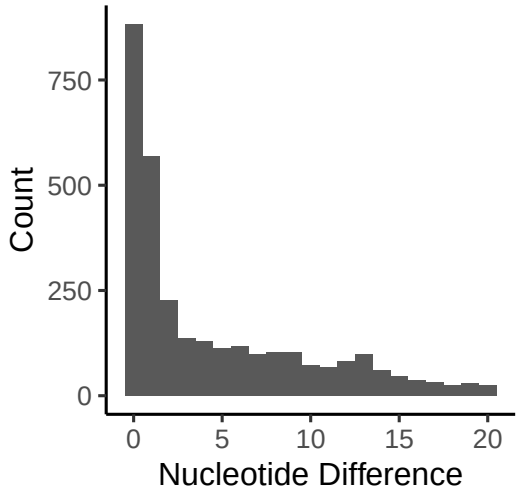
IGHV4−34*01_02

6656 sequences assigned
1433 (21.5%) exact matches, in which:
1241 unique CDR3
6 unique J



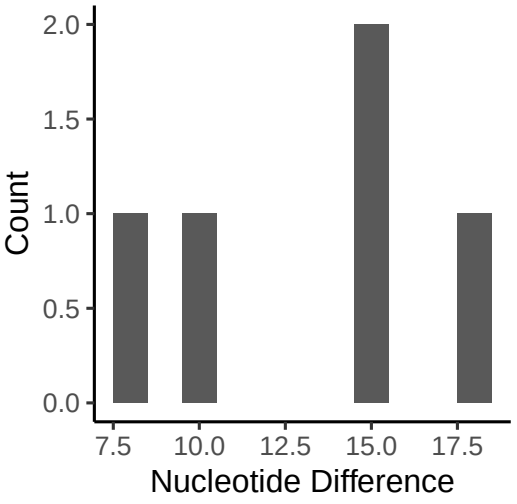
IGHV4−59*01_07

3251 sequences assigned
883 (27.2%) exact matches, in which:
790 unique CDR3
6 unique J



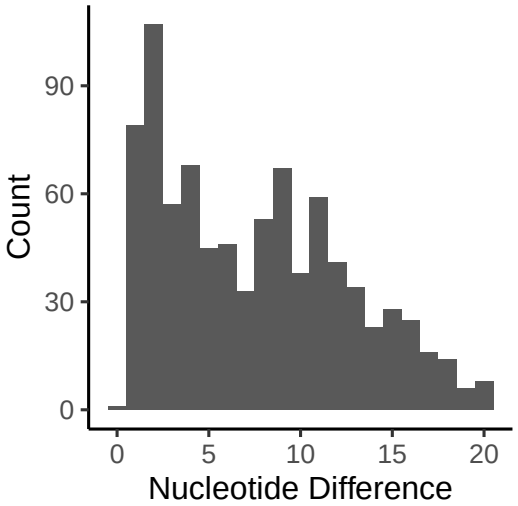
IGHV4−30−4*08

9 sequences assigned
No exact matches.



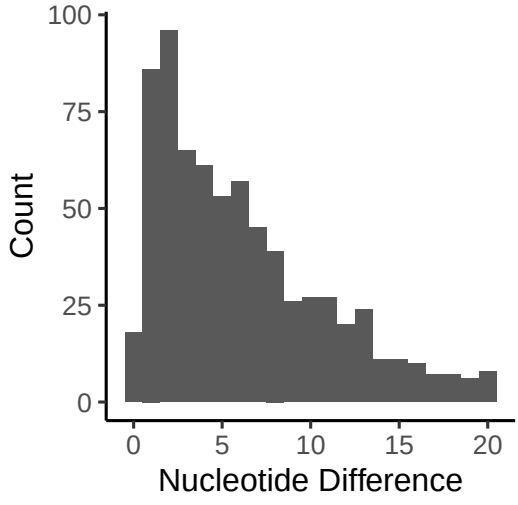
IGHV4−39*07

893 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



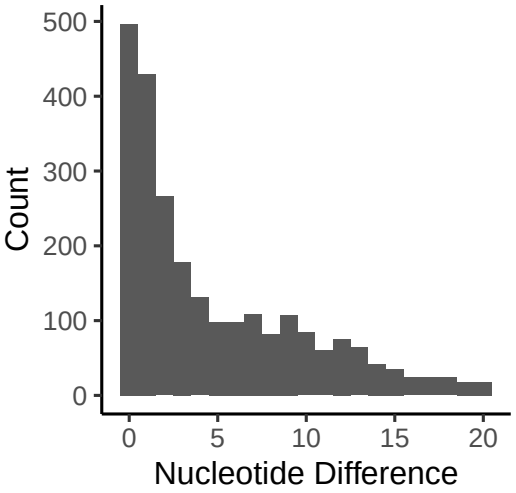
IGHV4−59*12

780 sequences assigned
18 (2.3%) exact matches, in which:
18 unique CDR3
5 unique J



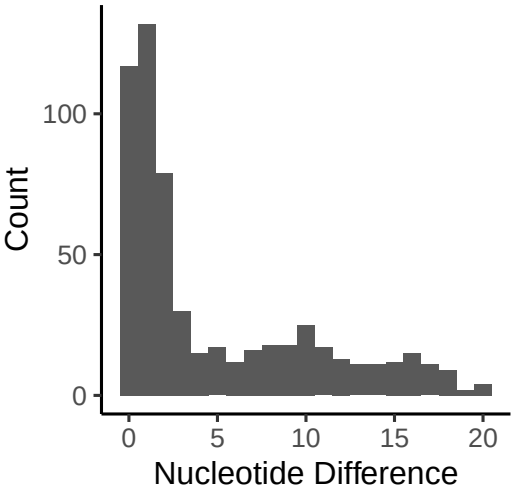
IGHV4−61*01

2683 sequences assigned
497 (18.5%) exact matches, in which:
451 unique CDR3
6 unique J



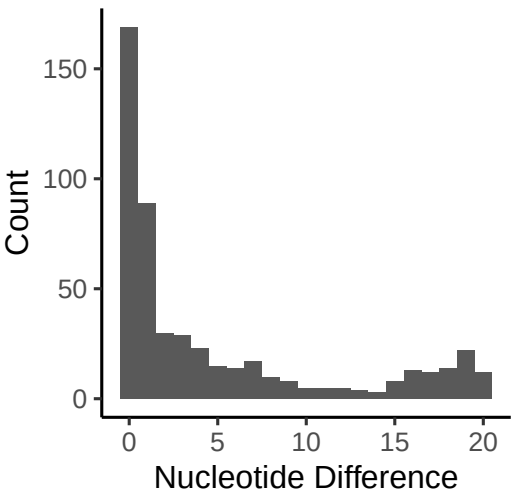
IGHV6−1*01_02

701 sequences assigned
117 (16.7%) exact matches, in which:
101 unique CDR3
4 unique J



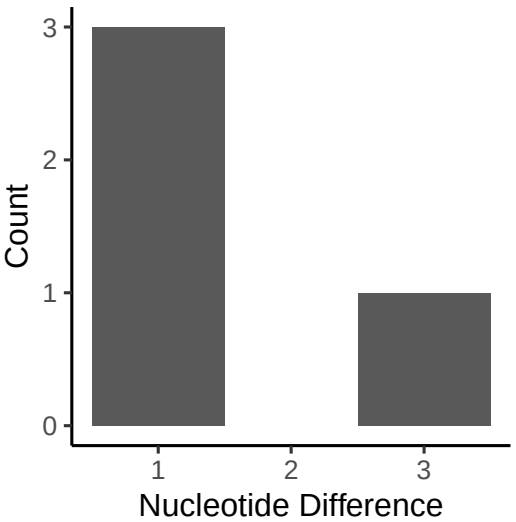
IGHV5−10−1*01_03

611 sequences assigned
169 (27.7%) exact matches, in which:
150 unique CDR3
6 unique J



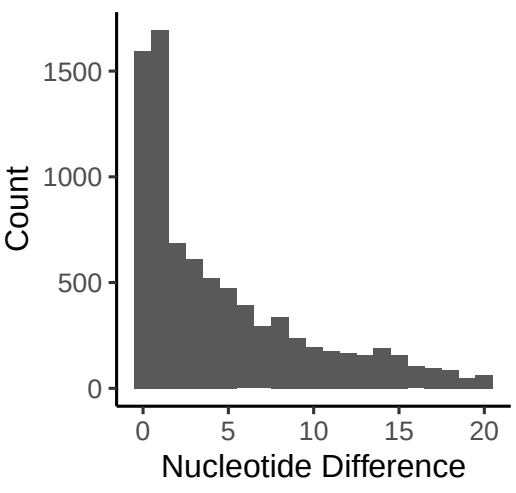
IGHV7−4−1*01

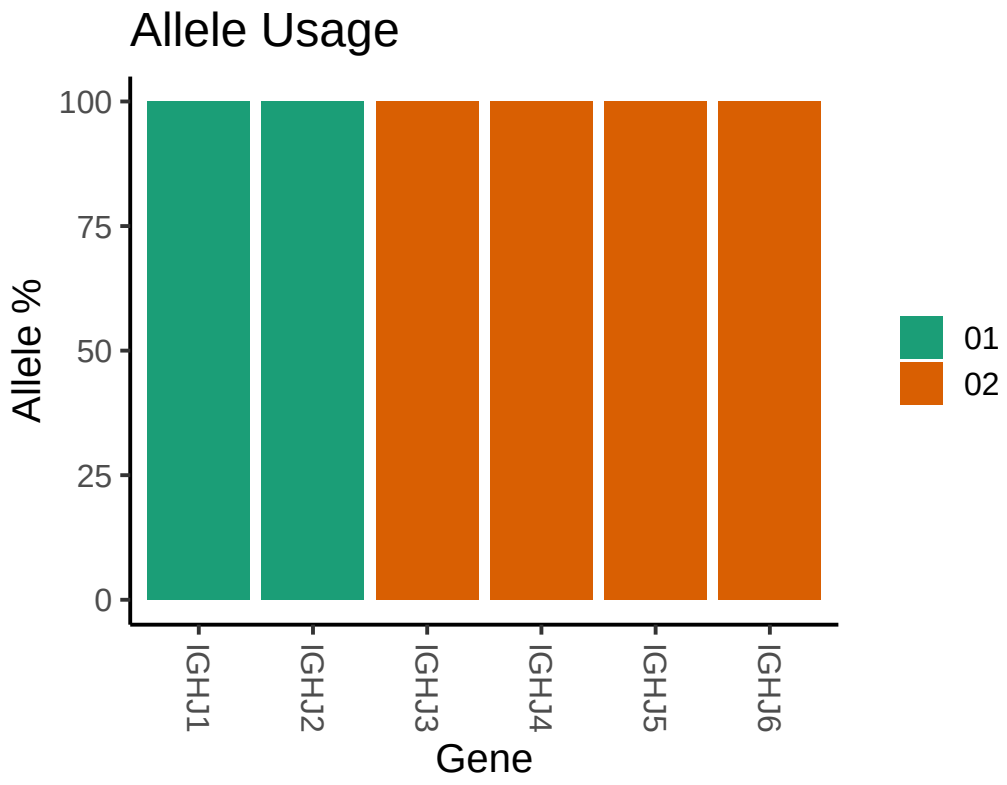
4 sequences assigned
No exact matches.



IGHV5−51*01_03

8784 sequences assigned
1595 (18.2%) exact matches, in which:
1286 unique CDR3
6 unique J




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

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.

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

Novel sequence(s) IGHV7−4−1*02_T63C are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV7−4−1*02_T63C are not listed in the genotype and will be ignored.

Warning − no inferred sequences found.

Warning: IGHV4−31*02, IGHV4−31*03_04 have identical germline sequences.

Warning − no inferred sequences found.

Warning − no inferred sequences found.

Warning: IGHV4−31*02, IGHV4−31*03_04 have identical germline sequences.

Novel sequence(s) 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.