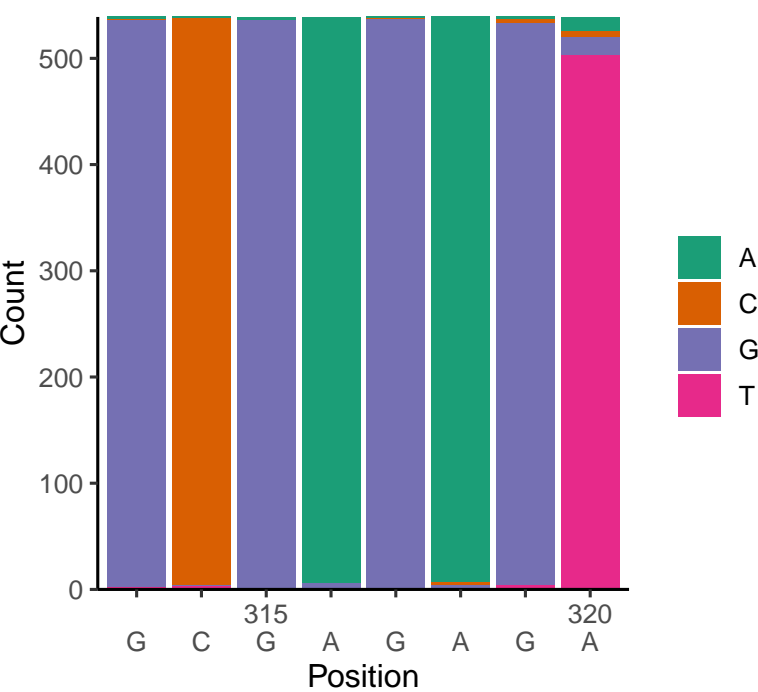


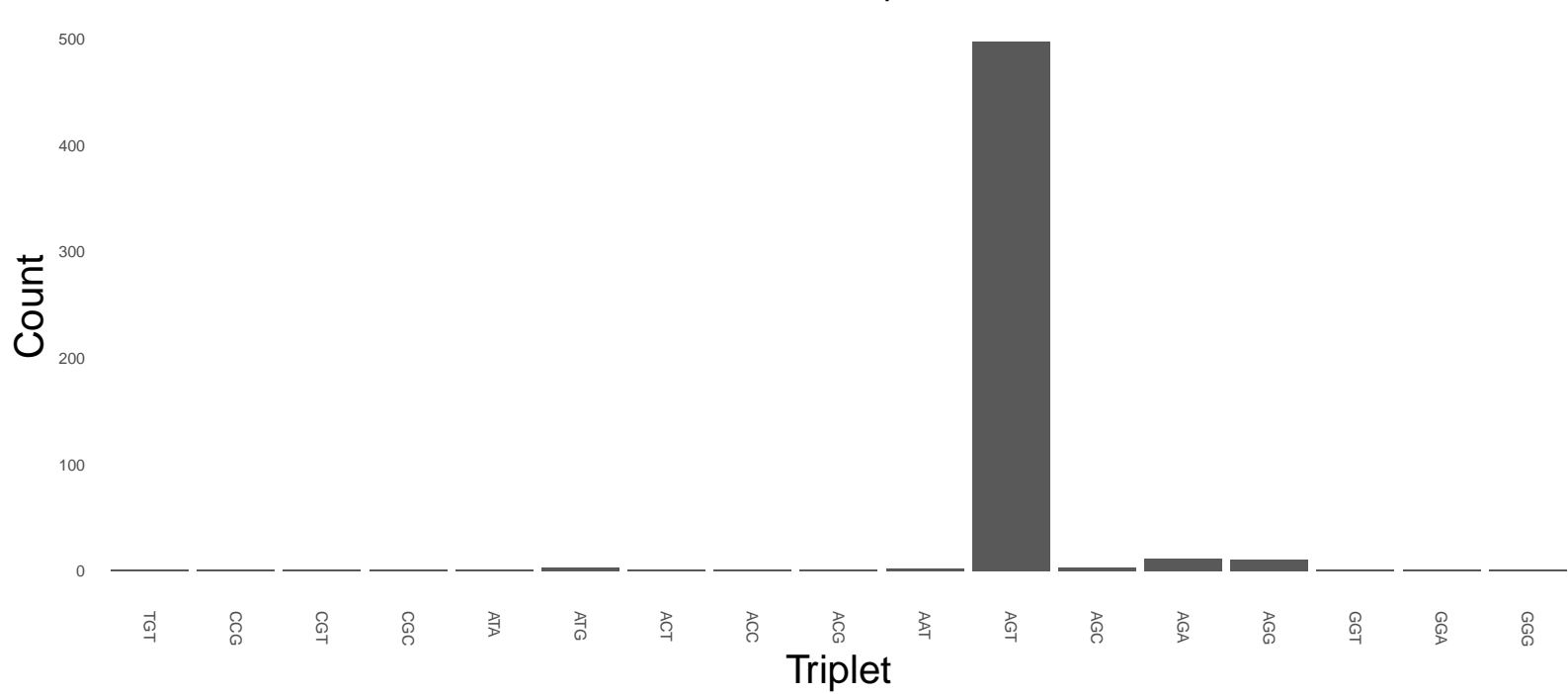
Gene IGHV7-4-1*02_G224A



Gene IGHV7-4-1*02_G224A

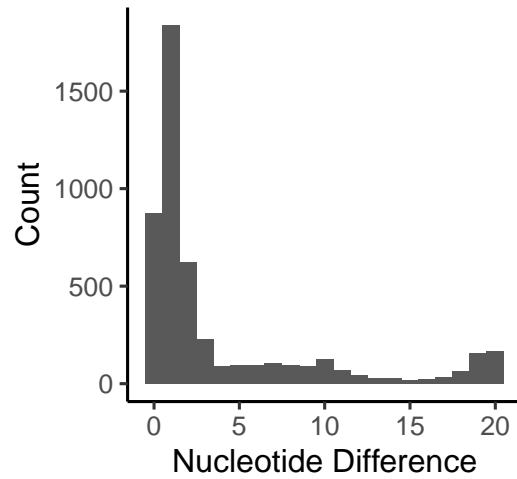


IGHV7-4-1*02_G224A- Final 3 nucleotides as a triplet



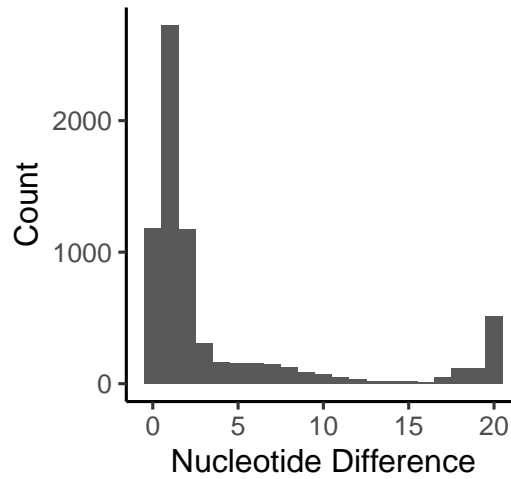
IGHV1-2*02

7173 sequences assigned
874 (12.2%) exact matches, in which:
633 unique CDR3
6 unique J



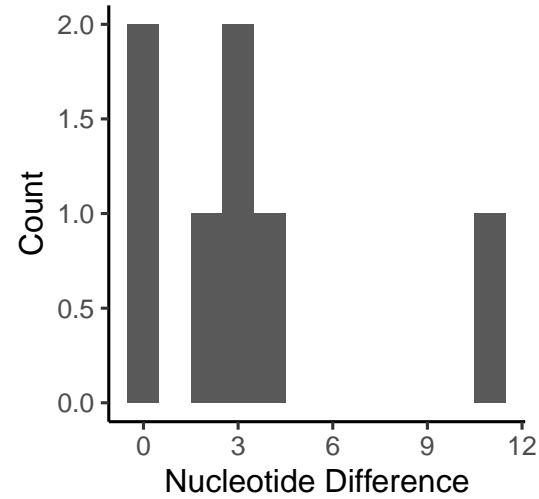
IGHV1-8*01

9786 sequences assigned
1183 (12.1%) exact matches, in which:
839 unique CDR3
7 unique J



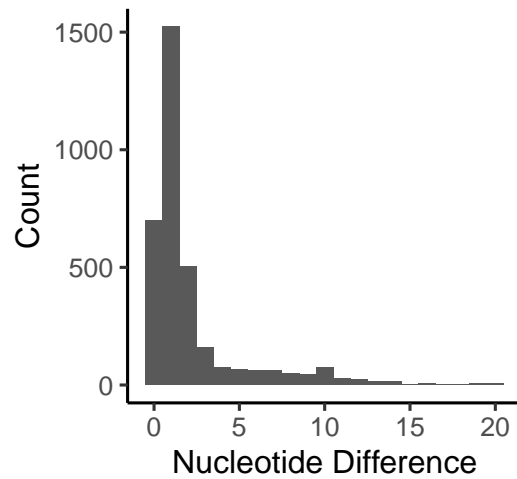
IGHV1-45*02

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



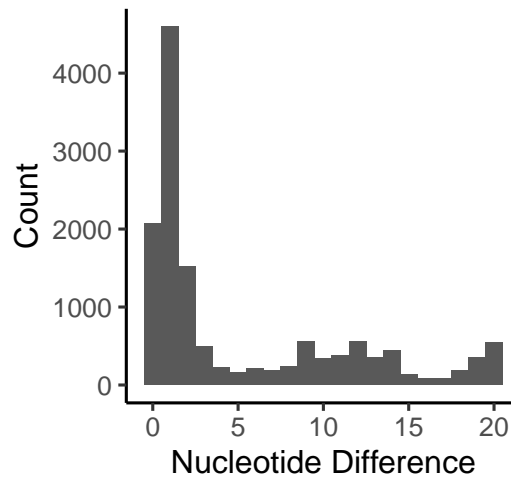
IGHV1-2*06

7668 sequences assigned
698 (9.1%) exact matches, in which:
479 unique CDR3
6 unique J



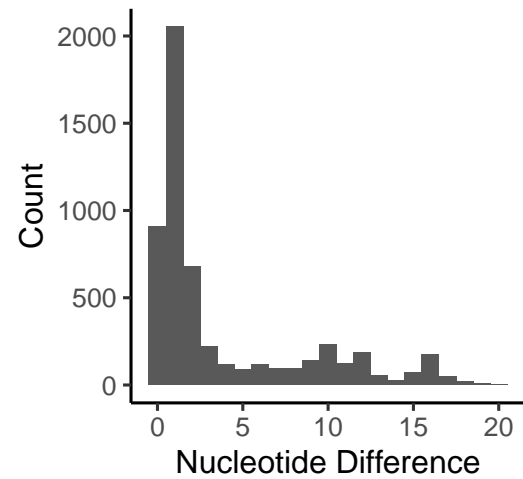
IGHV1-18*01

16144 sequences assigned
2072 (12.8%) exact matches, in which:
1418 unique CDR3
7 unique J



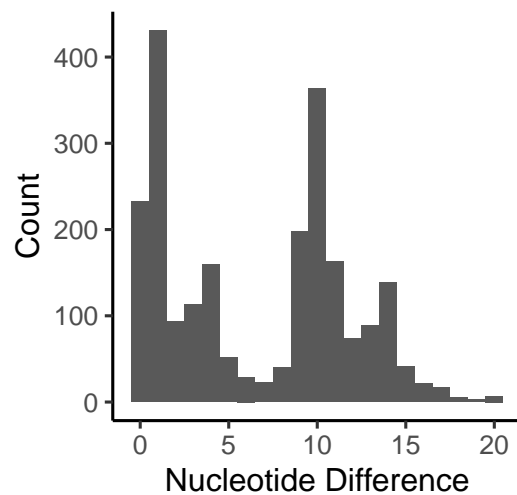
IGHV1-46*01

5681 sequences assigned
908 (16%) exact matches, in which:
637 unique CDR3
7 unique J



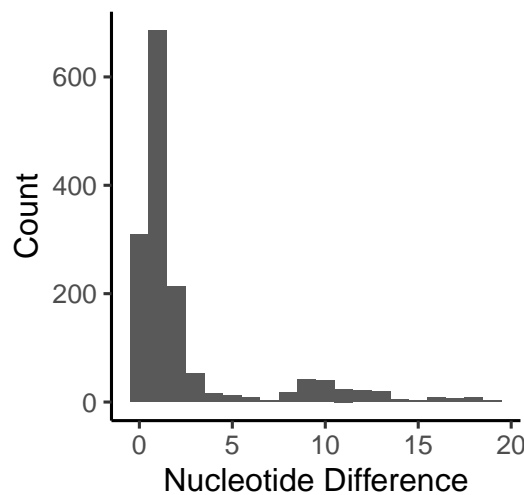
IGHV1-3*01_05

2322 sequences assigned
232 (10%) exact matches, in which:
173 unique CDR3
5 unique J



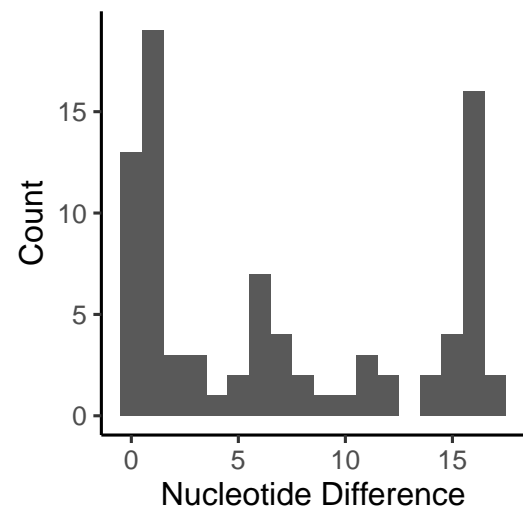
IGHV1-24*01

1501 sequences assigned
310 (20.7%) exact matches, in which:
209 unique CDR3
6 unique J



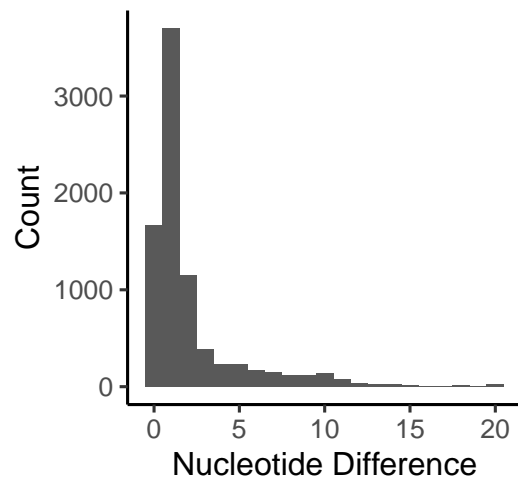
IGHV1-58*01_03

92 sequences assigned
13 (14.1%) exact matches, in which:
12 unique CDR3
5 unique J



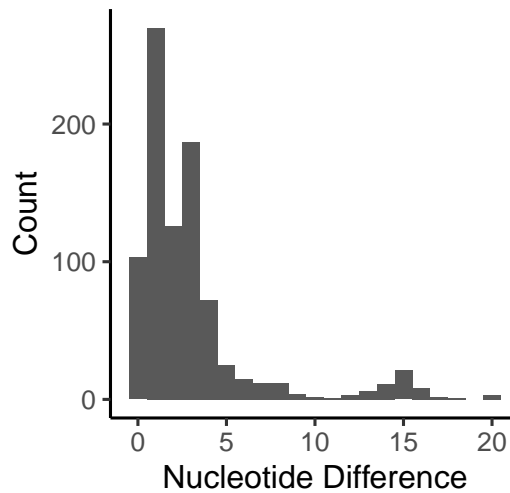
IGHV1-69*01_12_13

8448 sequences assigned
1664 (19.7%) exact matches, in which:
1151 unique CDR3
7 unique J



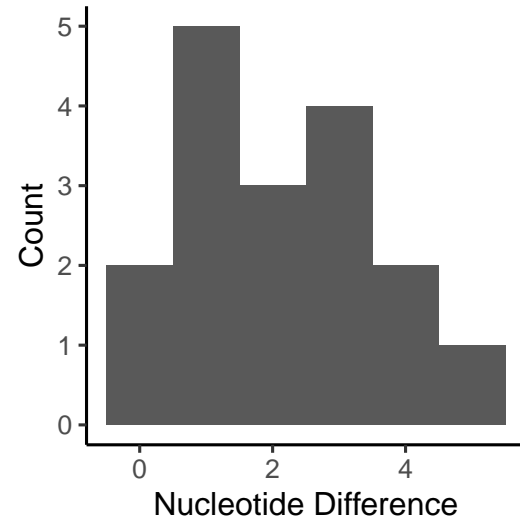
IGHV2-5*02

1110 sequences assigned
103 (9.3%) exact matches, in which:
76 unique CDR3
5 unique J



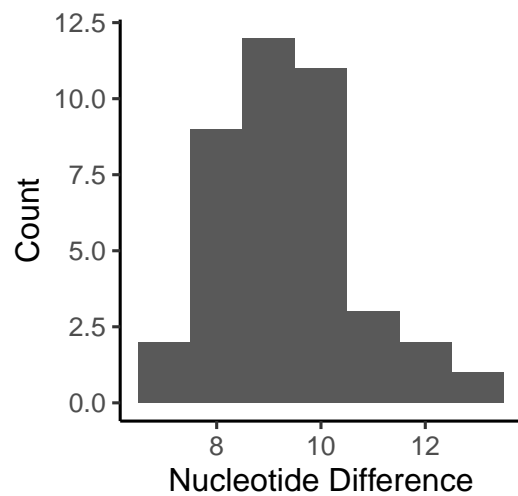
IGHV2-70*12

19 sequences assigned
2 (10.5%) exact matches, in which:
1 unique CDR3
1 unique J



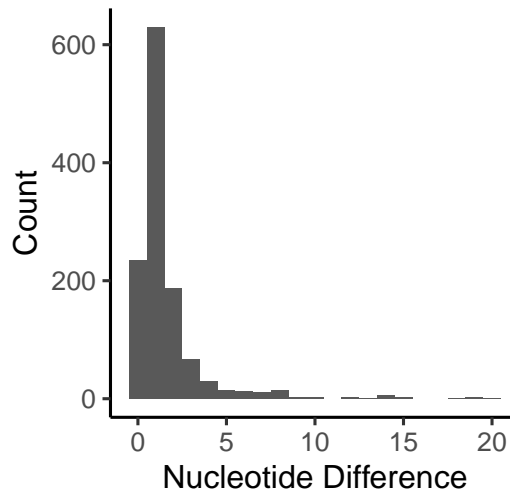
IGHV1-NL1*01

40 sequences assigned
No exact matches.



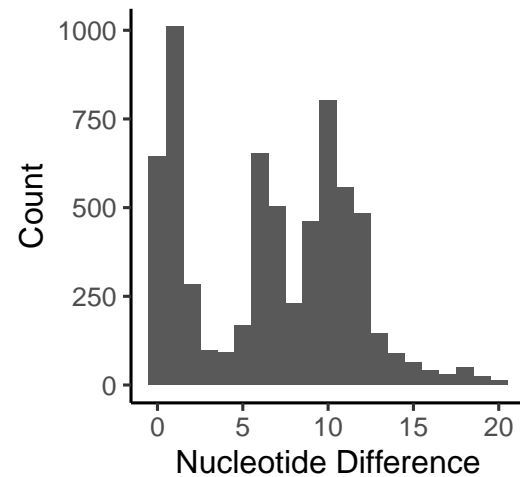
IGHV2-26*01

1227 sequences assigned
235 (19.2%) exact matches, in which:
151 unique CDR3
6 unique J



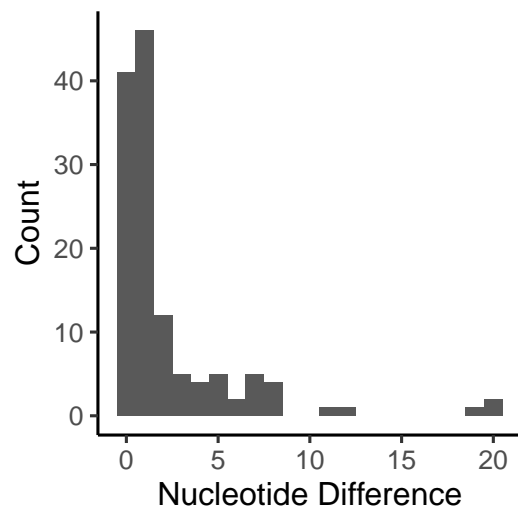
IGHV3-7*01

6680 sequences assigned
643 (9.6%) exact matches, in which:
409 unique CDR3
7 unique J



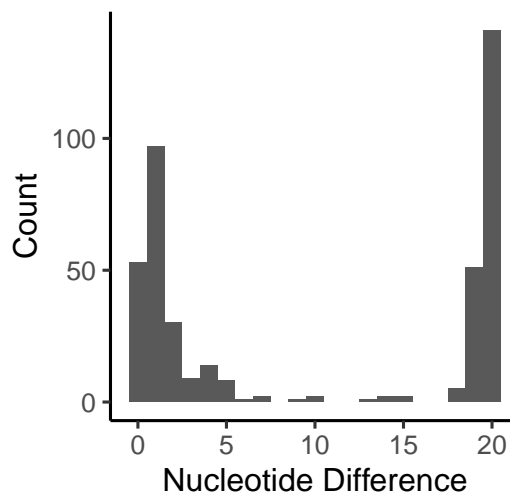
IGHV2-5*01

144 sequences assigned
41 (28.5%) exact matches, in which:
40 unique CDR3
5 unique J



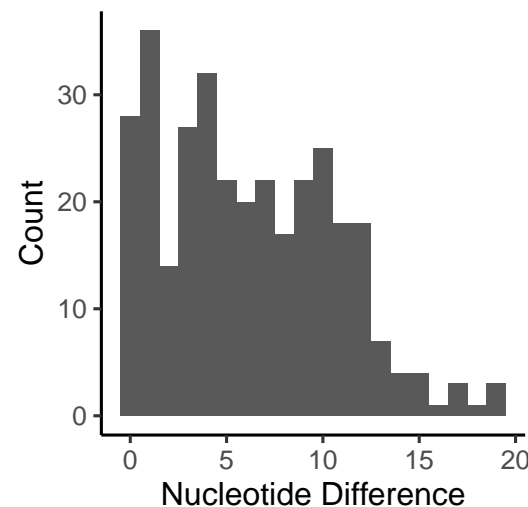
IGHV2-70*01

559 sequences assigned
53 (9.5%) exact matches, in which:
44 unique CDR3
4 unique J



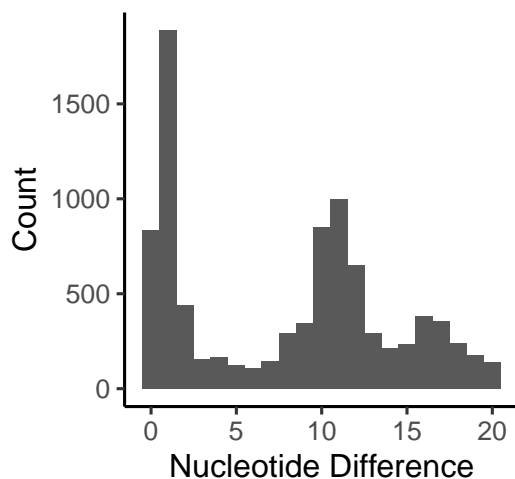
IGHV3-7*03

352 sequences assigned
28 (8%) exact matches, in which:
23 unique CDR3
4 unique J



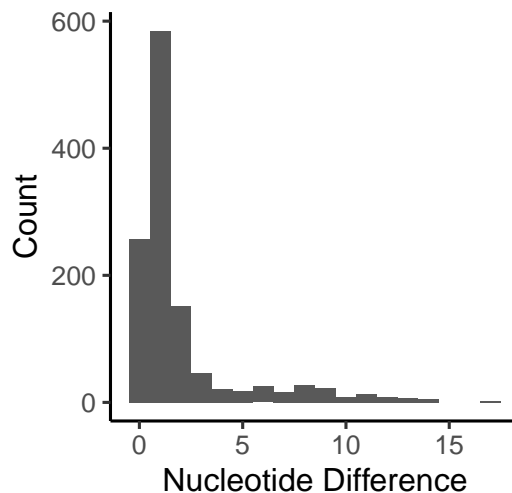
IGHV3-9*01

10544 sequences assigned
833 (7.9%) exact matches, in which:
434 unique CDR3
7 unique J



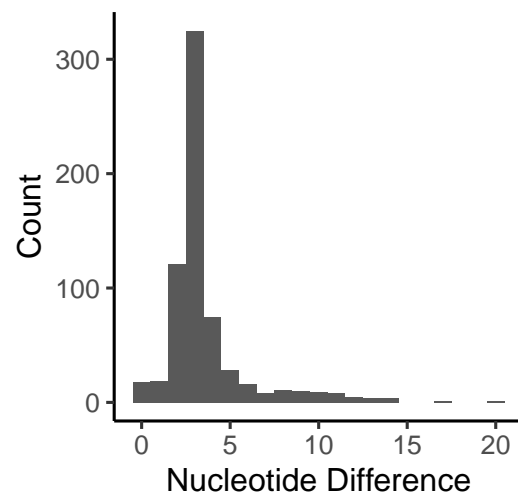
IGHV3-13*01

1272 sequences assigned
257 (20.2%) exact matches, in which:
120 unique CDR3
5 unique J



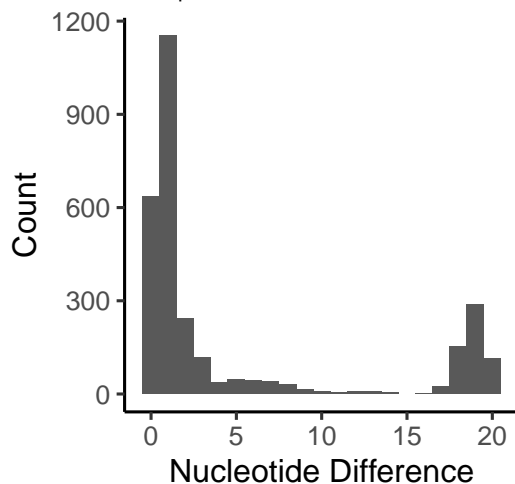
IGHV3-20*01_02

663 sequences assigned
18 (2.7%) exact matches, in which:
10 unique CDR3
4 unique J



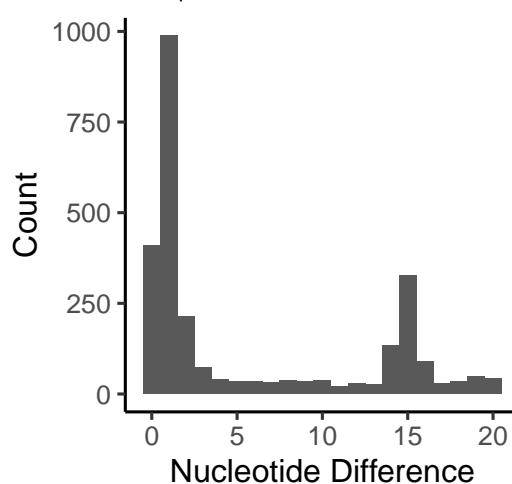
IGHV3-11*01

3688 sequences assigned
636 (17.2%) exact matches, in which:
372 unique CDR3
7 unique J



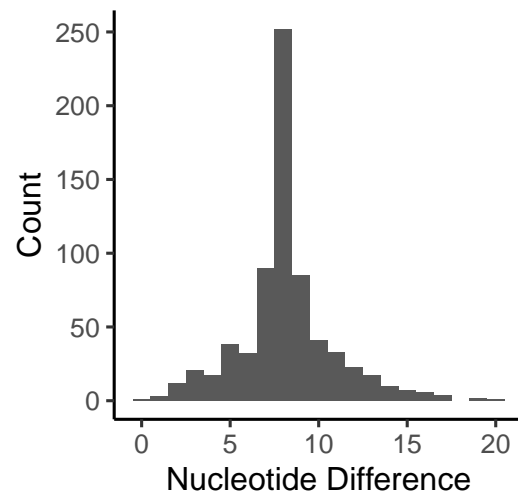
IGHV3-15*01_02

2977 sequences assigned
409 (13.7%) exact matches, in which:
220 unique CDR3
7 unique J



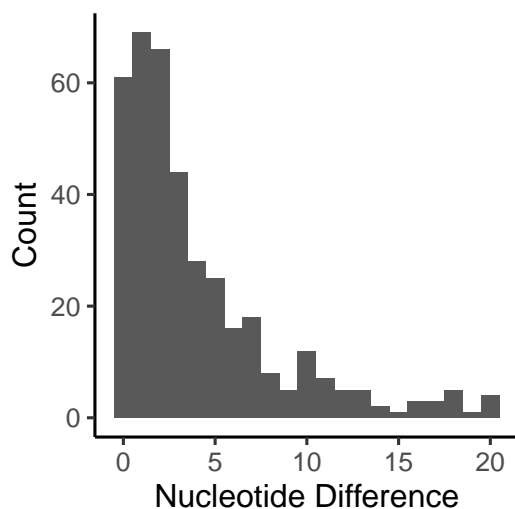
IGHV3-20*03_04

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



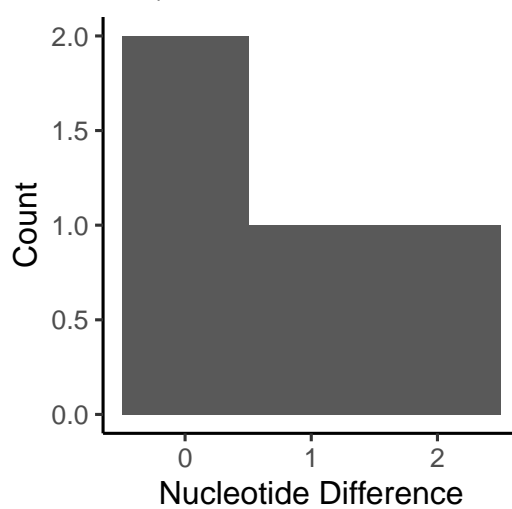
IGHV3-11*04

404 sequences assigned
61 (15.1%) exact matches, in which:
50 unique CDR3
6 unique J



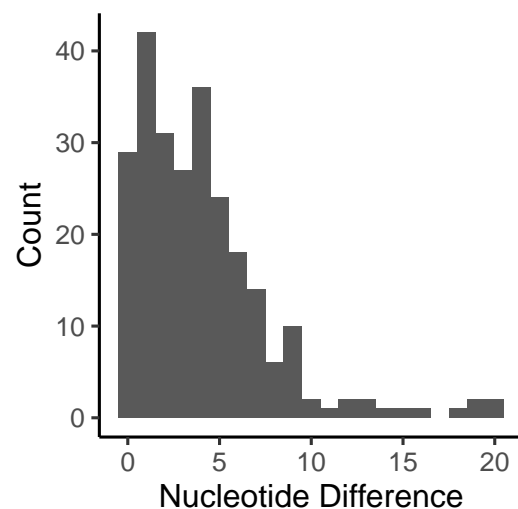
IGHV3-19*01

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



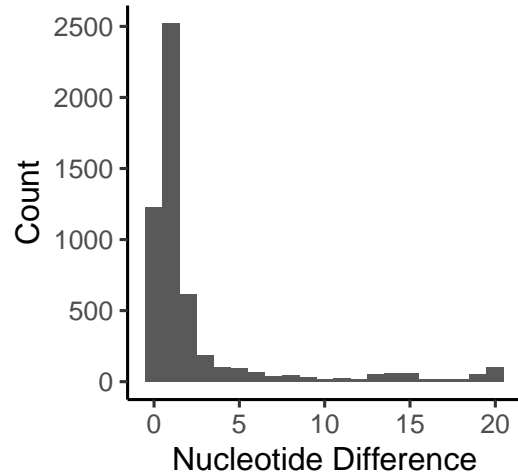
IGHV3-21*04

271 sequences assigned
29 (10.7%) exact matches, in which:
24 unique CDR3
5 unique J



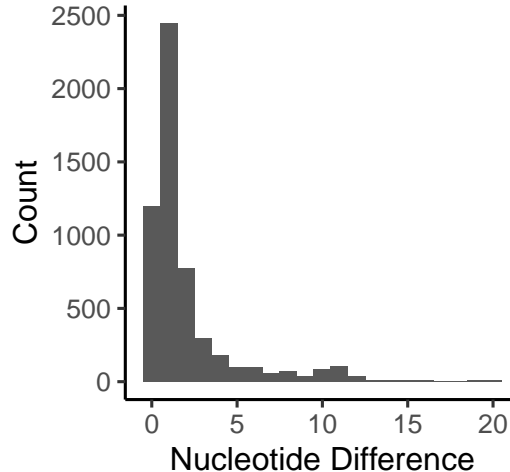
IGHV3-21*01_02

5650 sequences assigned
1227 (21.7%) exact matches, in which:
683 unique CDR3
7 unique J



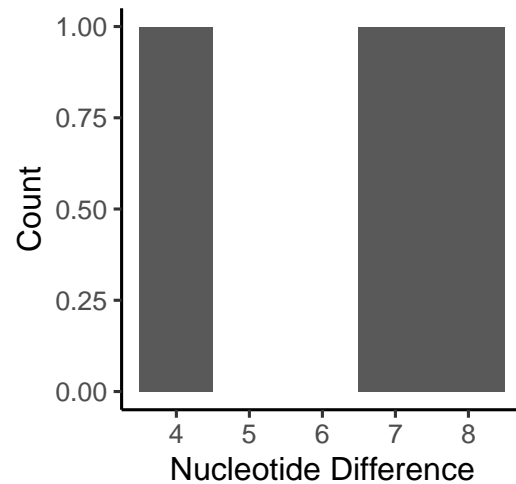
IGHV3-33*01

6023 sequences assigned
1200 (19.9%) exact matches, in which:
683 unique CDR3
7 unique J



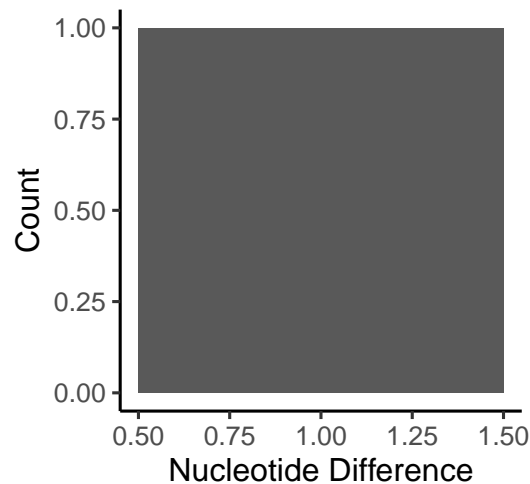
IGHV3-47*02

3 sequences assigned
No exact matches.



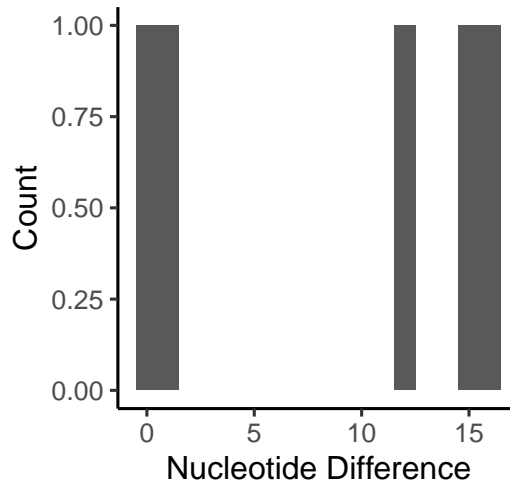
IGHV3-22*01_02

1 sequences assigned
No exact matches.



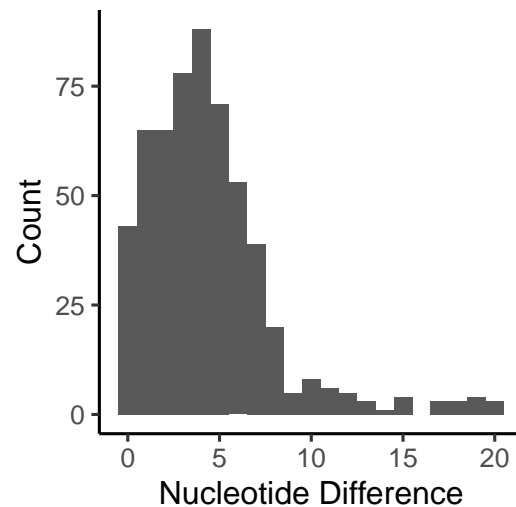
IGHV3-35*01

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



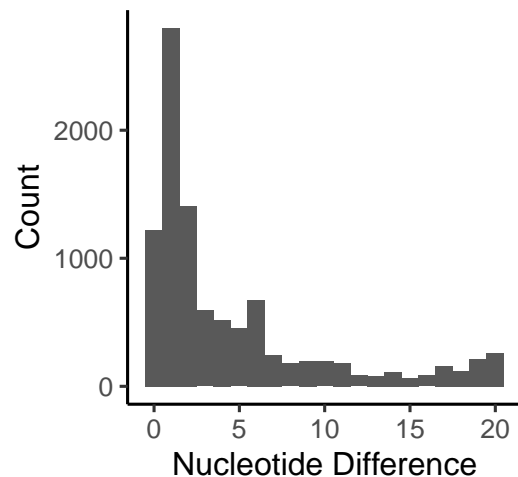
IGHV3-48*01

574 sequences assigned
43 (7.5%) exact matches, in which:
30 unique CDR3
6 unique J



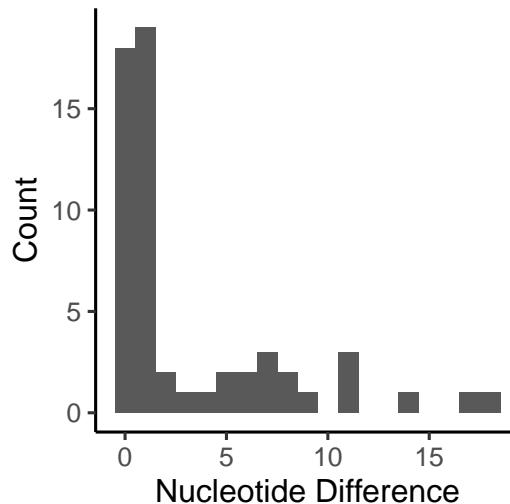
IGHV3-23*01_04

20647 sequences assigned
1222 (5.9%) exact matches, in which:
698 unique CDR3
7 unique J



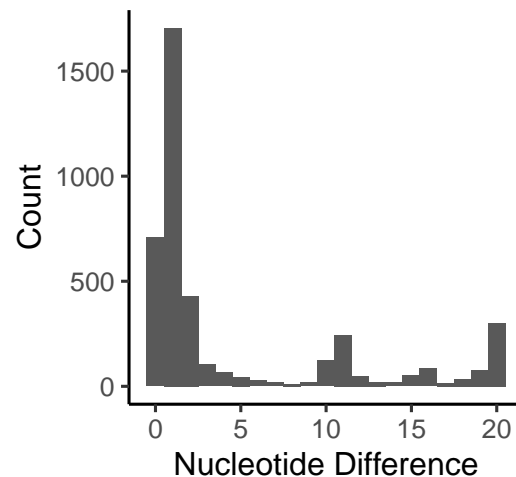
IGHV3-43*01

59 sequences assigned
18 (30.5%) exact matches, in which:
14 unique CDR3
4 unique J



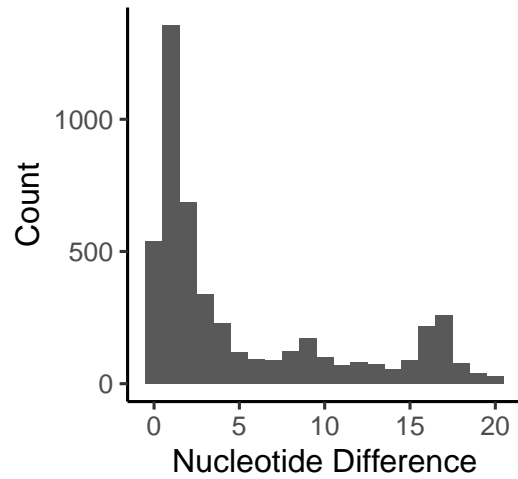
IGHV3-48*02

4597 sequences assigned
709 (15.4%) exact matches, in which:
334 unique CDR3
7 unique J



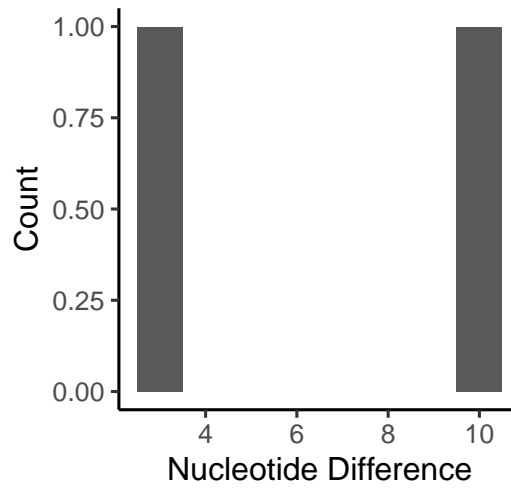
IGHV3-48*03

5440 sequences assigned
538 (9.9%) exact matches, in which:
248 unique CDR3
5 unique J



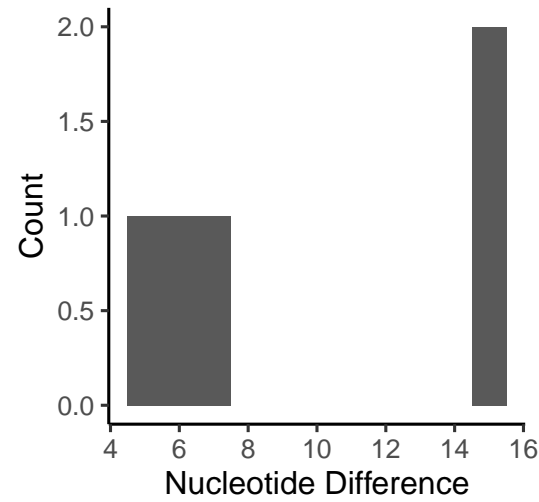
IGHV3-52*01_03

2 sequences assigned
No exact matches.



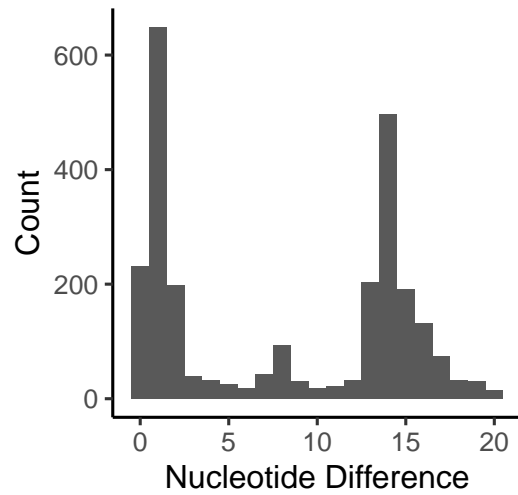
IGHV3-64*04

11 sequences assigned
No exact matches.



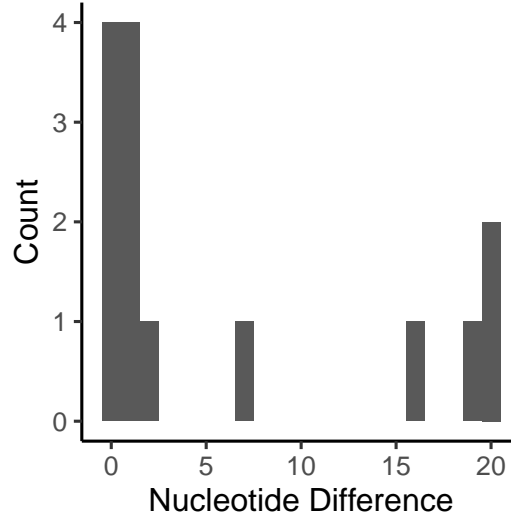
IGHV3-49*04

2847 sequences assigned
232 (8.1%) exact matches, in which:
109 unique CDR3
6 unique J



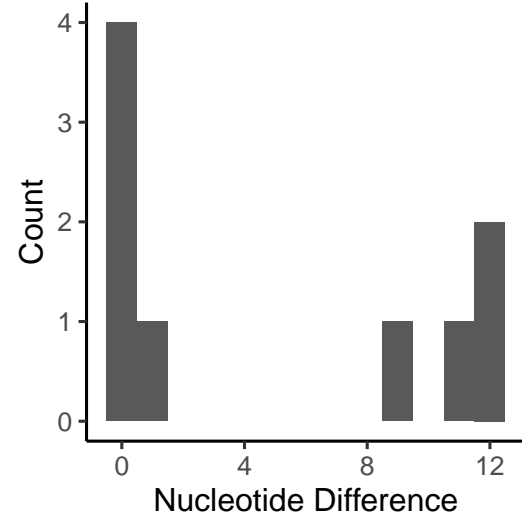
IGHV3-53*05

22 sequences assigned
4 (18.2%) exact matches, in which:
3 unique CDR3
1 unique J



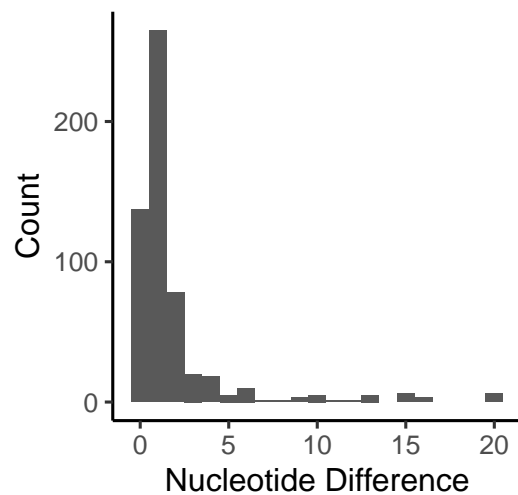
IGHV3-64*02_07

15 sequences assigned
4 (26.7%) exact matches, in which:
4 unique CDR3
2 unique J



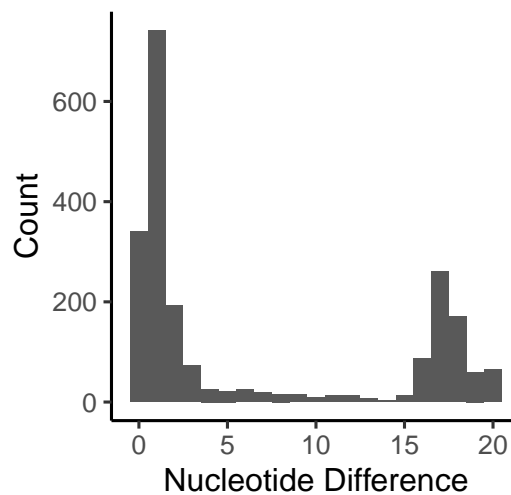
IGHV3-49*03_05

802 sequences assigned
137 (17.1%) exact matches, in which:
77 unique CDR3
6 unique J



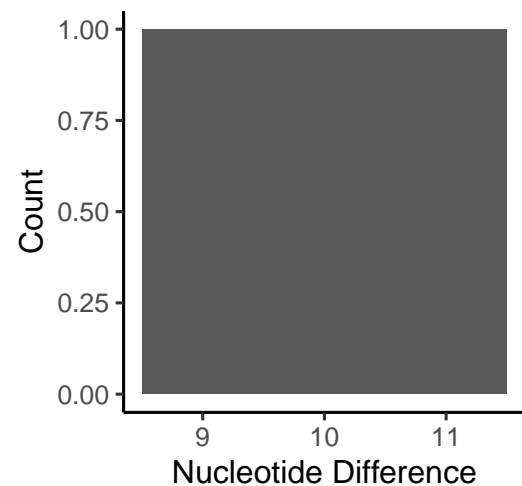
IGHV3-53*01_02

2683 sequences assigned
340 (12.7%) exact matches, in which:
194 unique CDR3
7 unique J



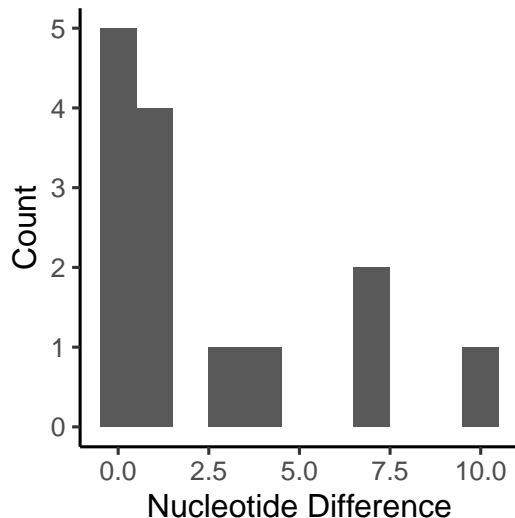
IGHV3-66*01

4 sequences assigned
No exact matches.



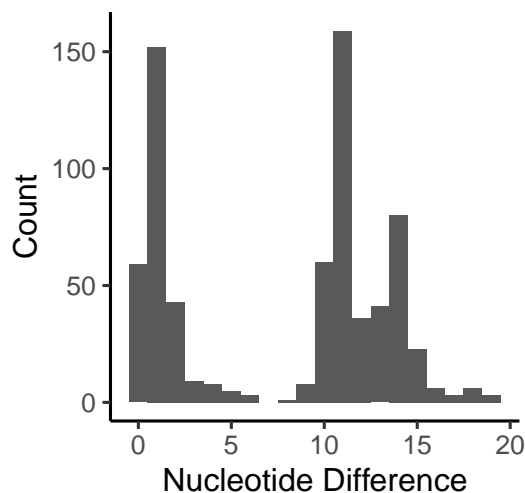
IGHV3-66*03

14 sequences assigned
5 (35.7%) exact matches, in which:
5 unique CDR3
2 unique J



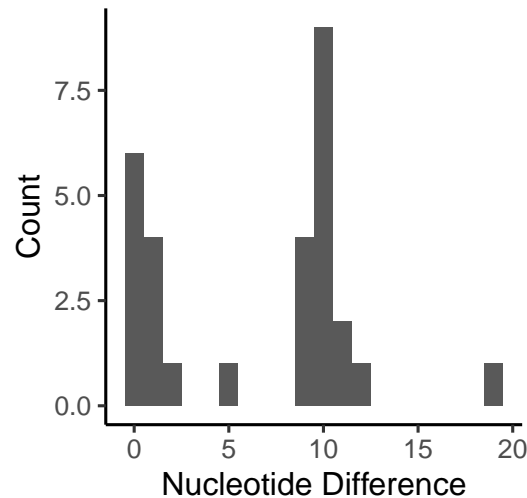
IGHV3-73*01_02

1319 sequences assigned
59 (4.5%) exact matches, in which:
27 unique CDR3
4 unique J



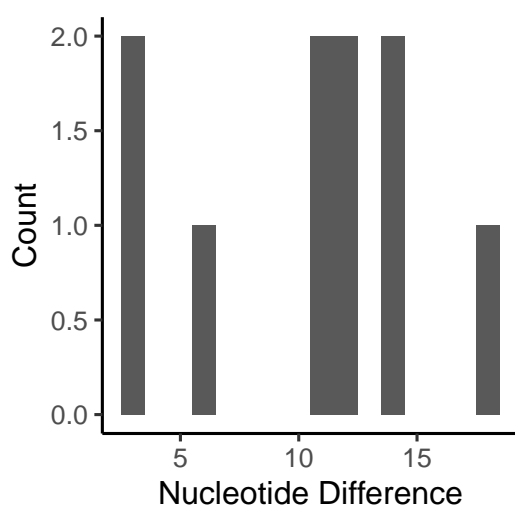
IGHV3-43D*04

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



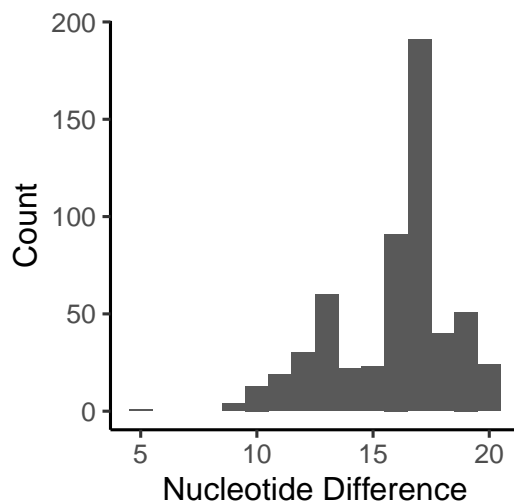
IGHV3-69-1*01

10 sequences assigned
No exact matches.



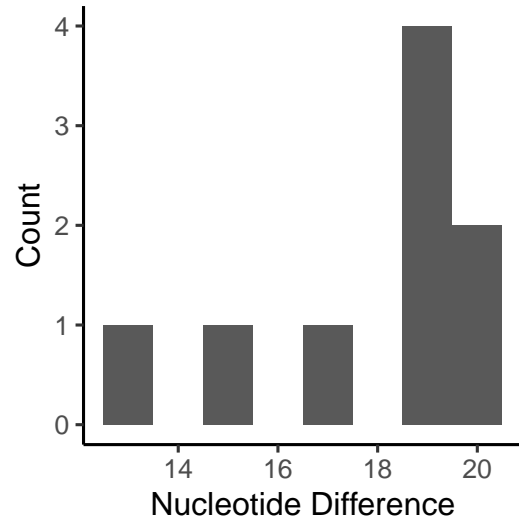
IGHV3-74*03

1771 sequences assigned
No exact matches.



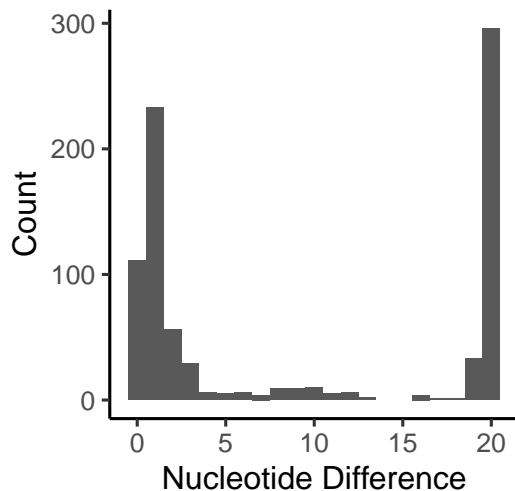
IGHV3-NL1*01

13 sequences assigned
No exact matches.



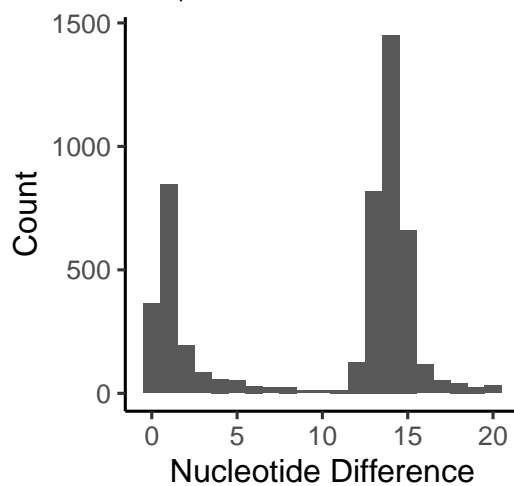
IGHV3-72*01

2508 sequences assigned
111 (4.4%) exact matches, in which:
62 unique CDR3
5 unique J



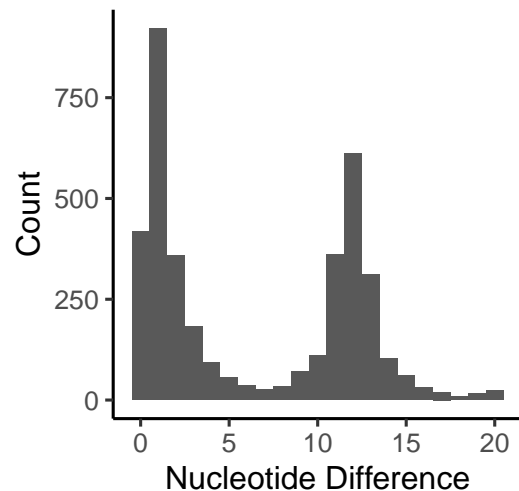
IGHV3-74*01_02

5729 sequences assigned
364 (6.4%) exact matches, in which:
189 unique CDR3
7 unique J



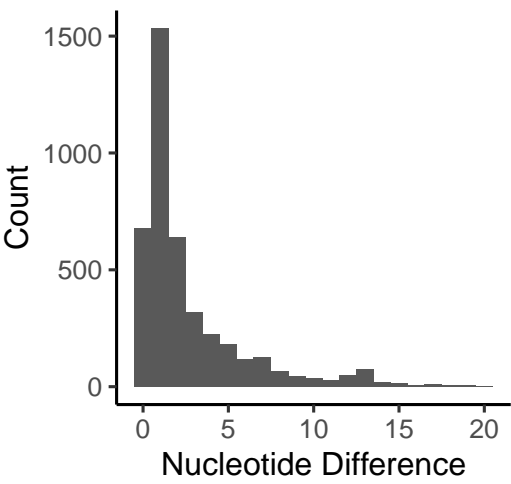
IGHV4-4*07

3899 sequences assigned
418 (10.7%) exact matches, in which:
282 unique CDR3
6 unique J



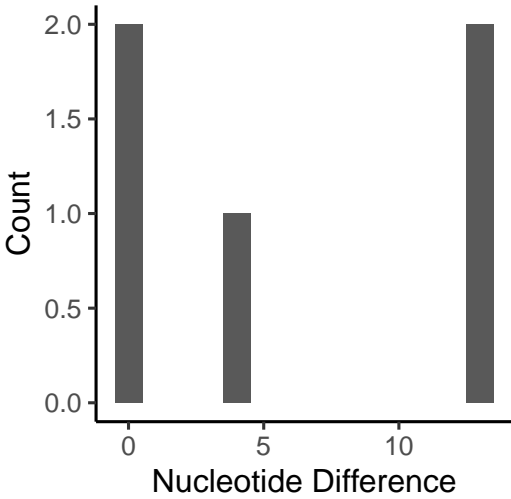
IGHV4-4*02_03

4790 sequences assigned
678 (14.2%) exact matches, in which:
453 unique CDR3
7 unique J



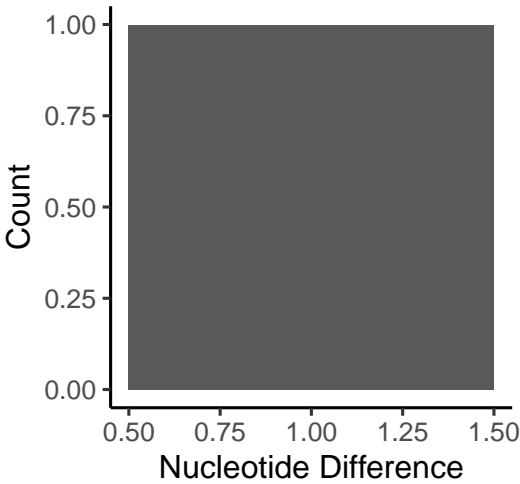
IGHV4-30-2*01

9 sequences assigned
2 (22.2%) exact matches, in which:
2 unique CDR3
2 unique J



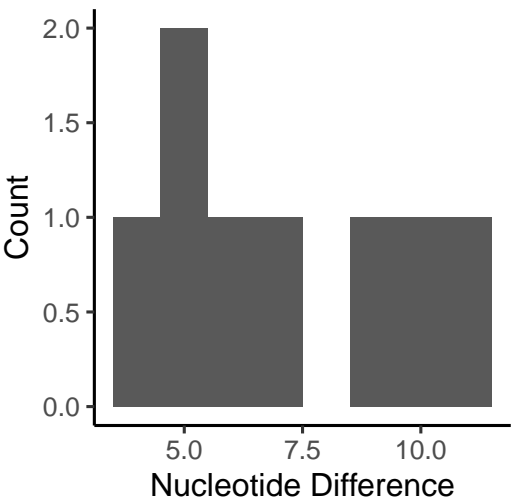
IGHV4-30-4*07

2 sequences assigned
No exact matches.



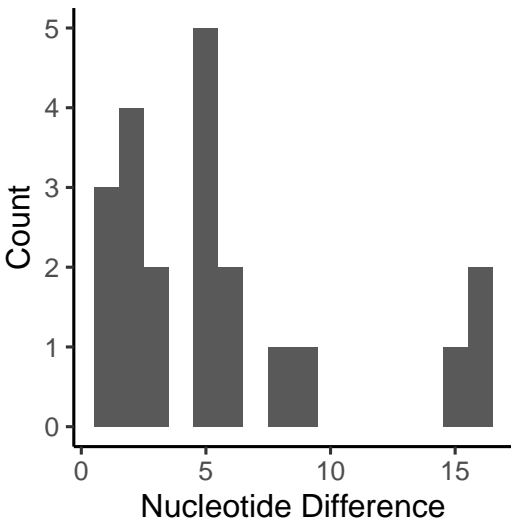
IGHV4-28*03

8 sequences assigned
No exact matches.



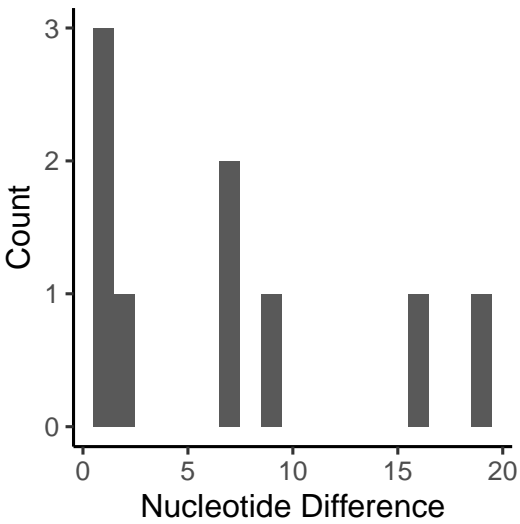
IGHV4-30-2*03

101 sequences assigned
No exact matches.



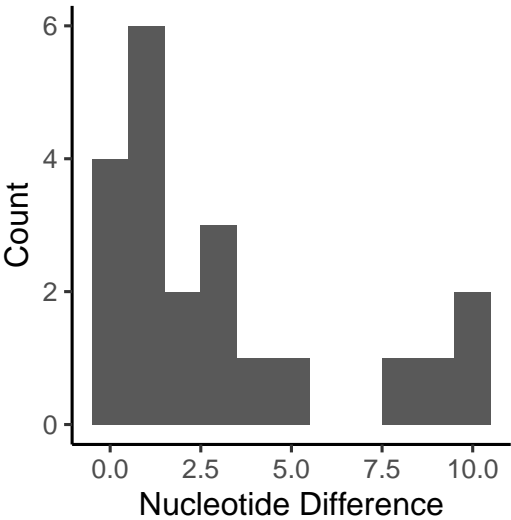
IGHV4-30-4*08

10 sequences assigned
No exact matches.



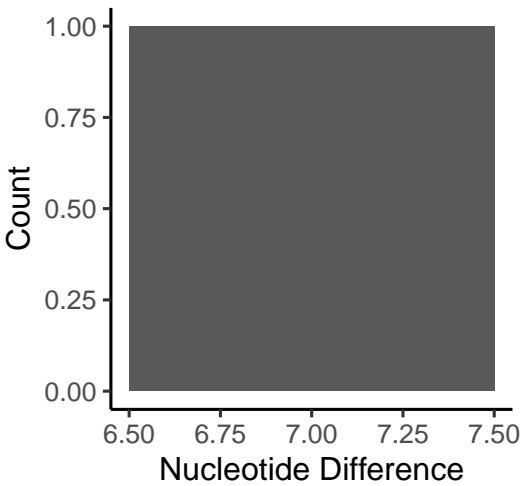
IGHV4-28*02_05

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



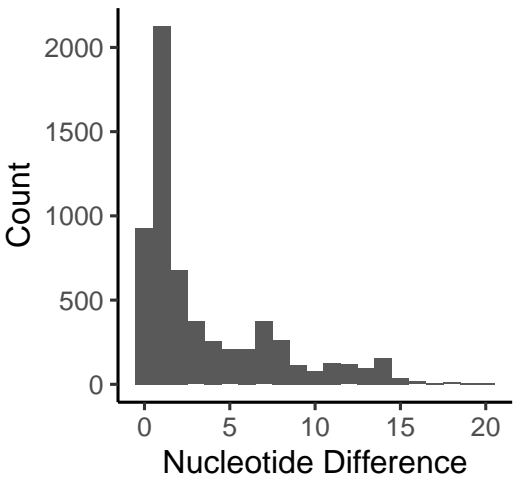
IGHV4-30-2*04

1 sequences assigned
No exact matches.



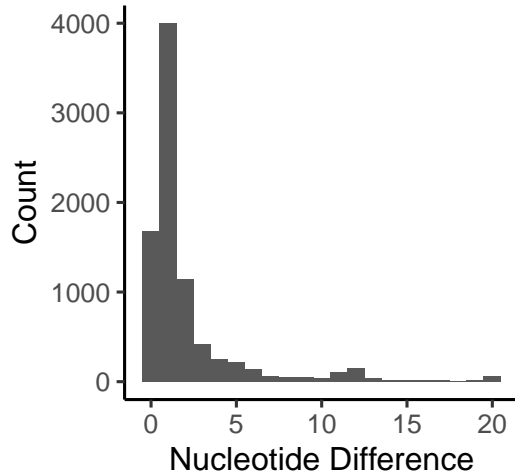
IGHV4-31*02

6481 sequences assigned
929 (14.3%) exact matches, in which:
609 unique CDR3
7 unique J



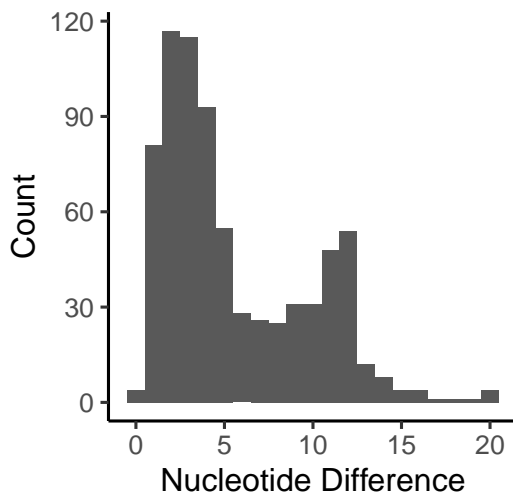
IGHV4-34*01_02

9108 sequences assigned
1679 (18.4%) exact matches, in which:
1018 unique CDR3
7 unique J



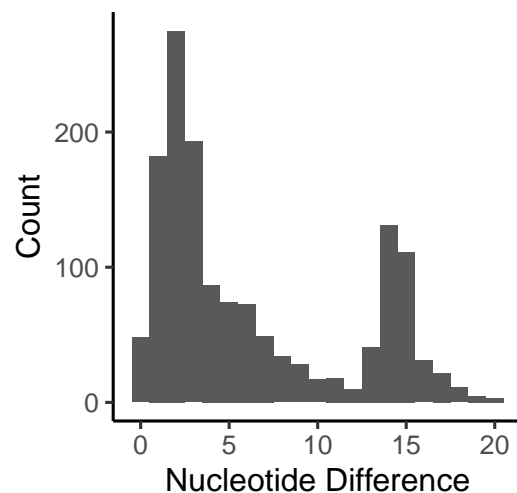
IGHV4-39*07

765 sequences assigned
4 (0.5%) exact matches, in which:
4 unique CDR3
2 unique J



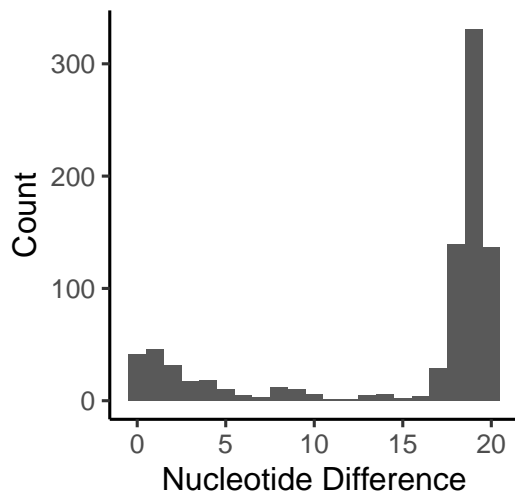
IGHV4-59*12

1478 sequences assigned
48 (3.2%) exact matches, in which:
43 unique CDR3
7 unique J



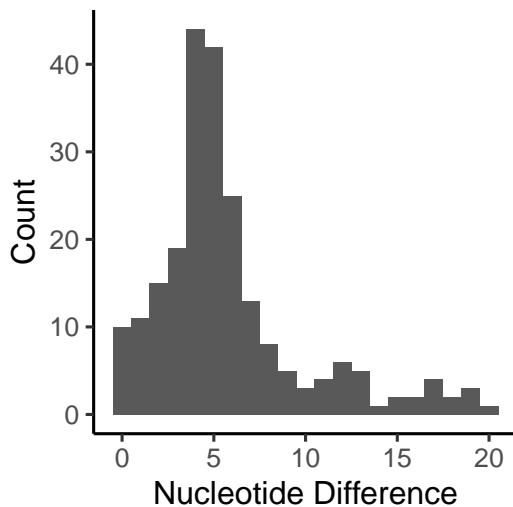
IGHV4-38-2*01

1782 sequences assigned
41 (2.3%) exact matches, in which:
39 unique CDR3
6 unique J



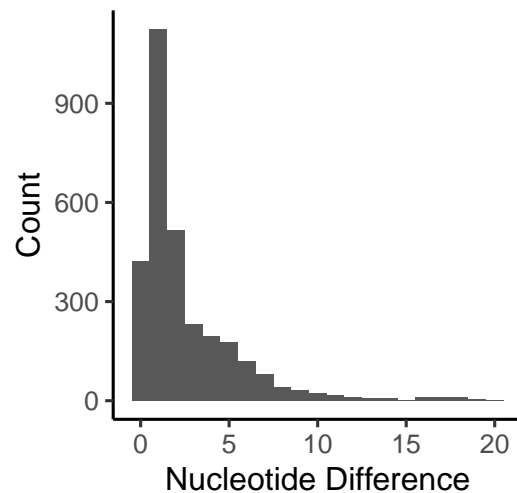
IGHV4-59*02

605 sequences assigned
10 (1.7%) exact matches, in which:
10 unique CDR3
4 unique J



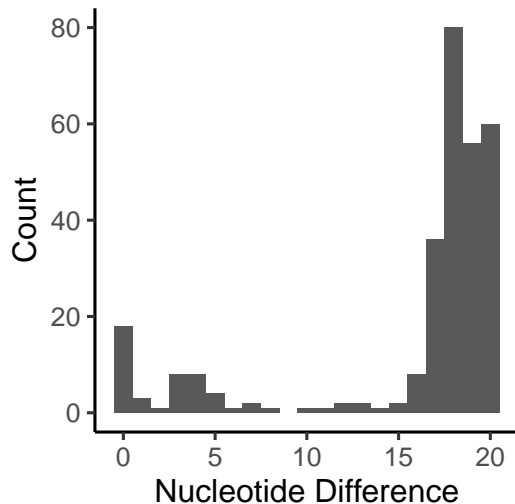
IGHV4-61*01

4858 sequences assigned
421 (8.7%) exact matches, in which:
271 unique CDR3
6 unique J



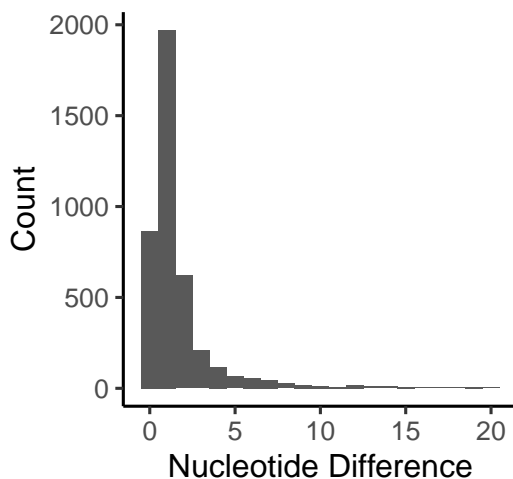
IGHV4-38-2*02

367 sequences assigned
18 (4.9%) exact matches, in which:
15 unique CDR3
5 unique J



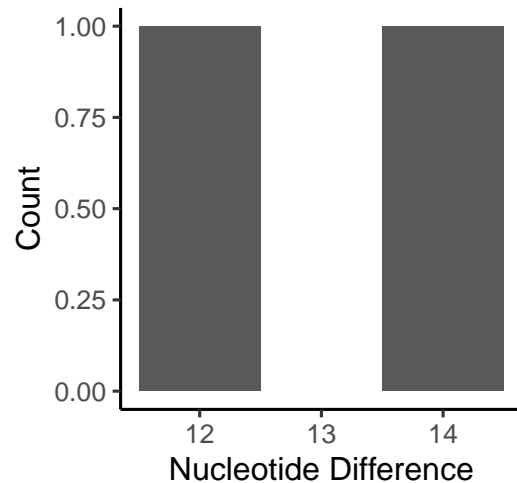
IGHV4-59*01_07

4135 sequences assigned
865 (20.9%) exact matches, in which:
576 unique CDR3
7 unique J



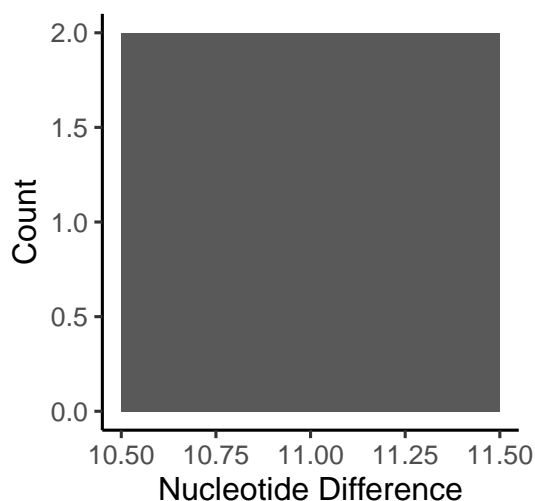
IGHV1/OR15-2*02_03

2 sequences assigned
No exact matches.



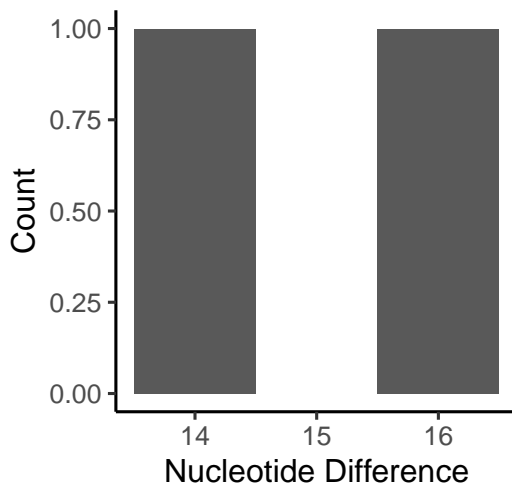
IGHV1/OR15-3*02

2 sequences assigned
No exact matches.



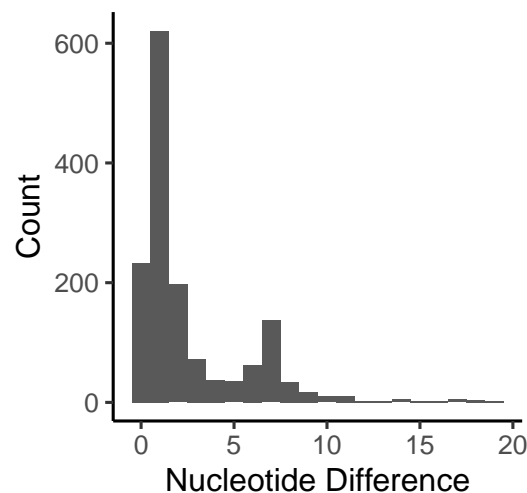
IGHV5-10-1*01_03

2 sequences assigned
No exact matches.



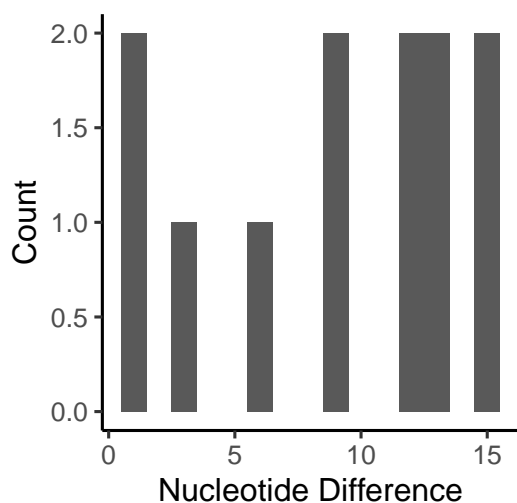
IGHV6-1*01_02

1497 sequences assigned
233 (15.6%) exact matches, in which:
162 unique CDR3
5 unique J



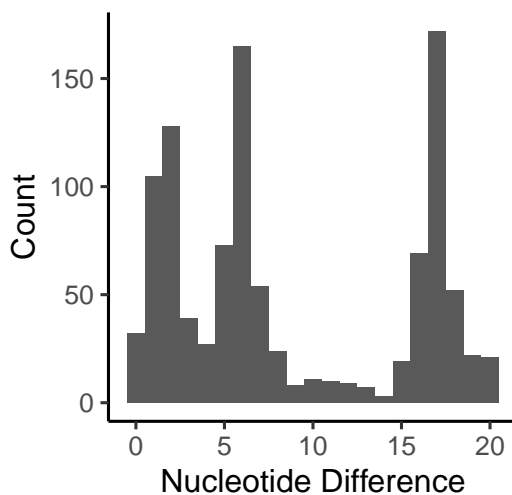
IGHV4/OR15-8*01

12 sequences assigned
No exact matches.



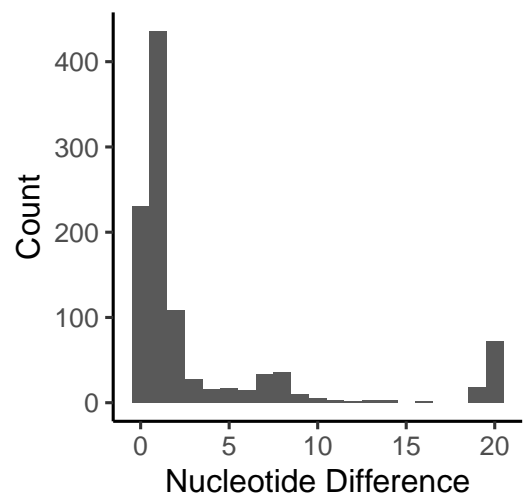
IGHV5-51*07

1299 sequences assigned
32 (2.5%) exact matches, in which:
23 unique CDR3
5 unique J



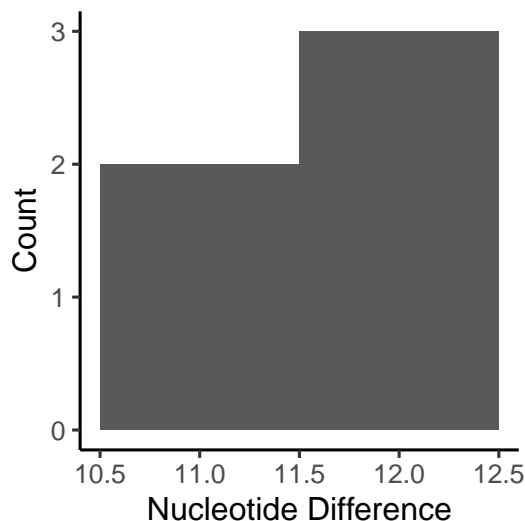
IGHV7-4-1*02

1337 sequences assigned
230 (17.2%) exact matches, in which:
161 unique CDR3
7 unique J



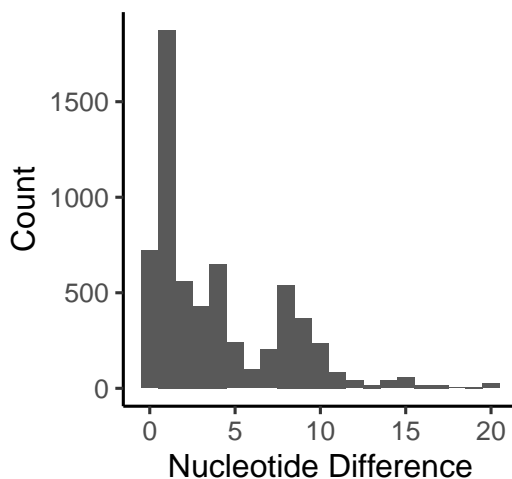
IGHV1/OR15-9*01

5 sequences assigned
No exact matches.



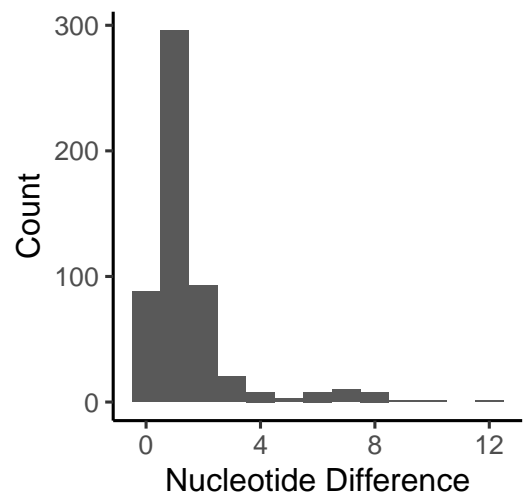
IGHV5-51*01_03

6341 sequences assigned
722 (11.4%) exact matches, in which:
386 unique CDR3
5 unique J

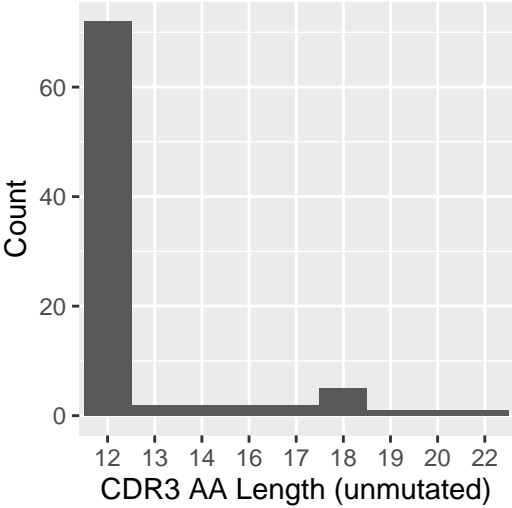


IGHV7-4-1*02_G224A

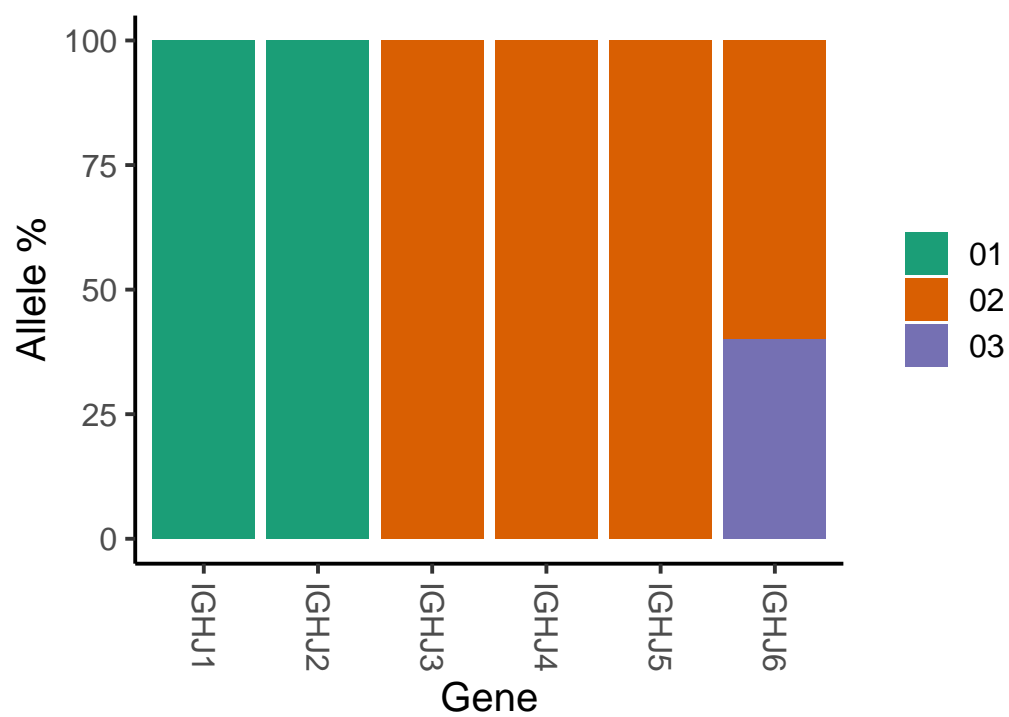
539 sequences assigned
88 (16.3%) exact matches, in which:
48 unique CDR3
6 unique J



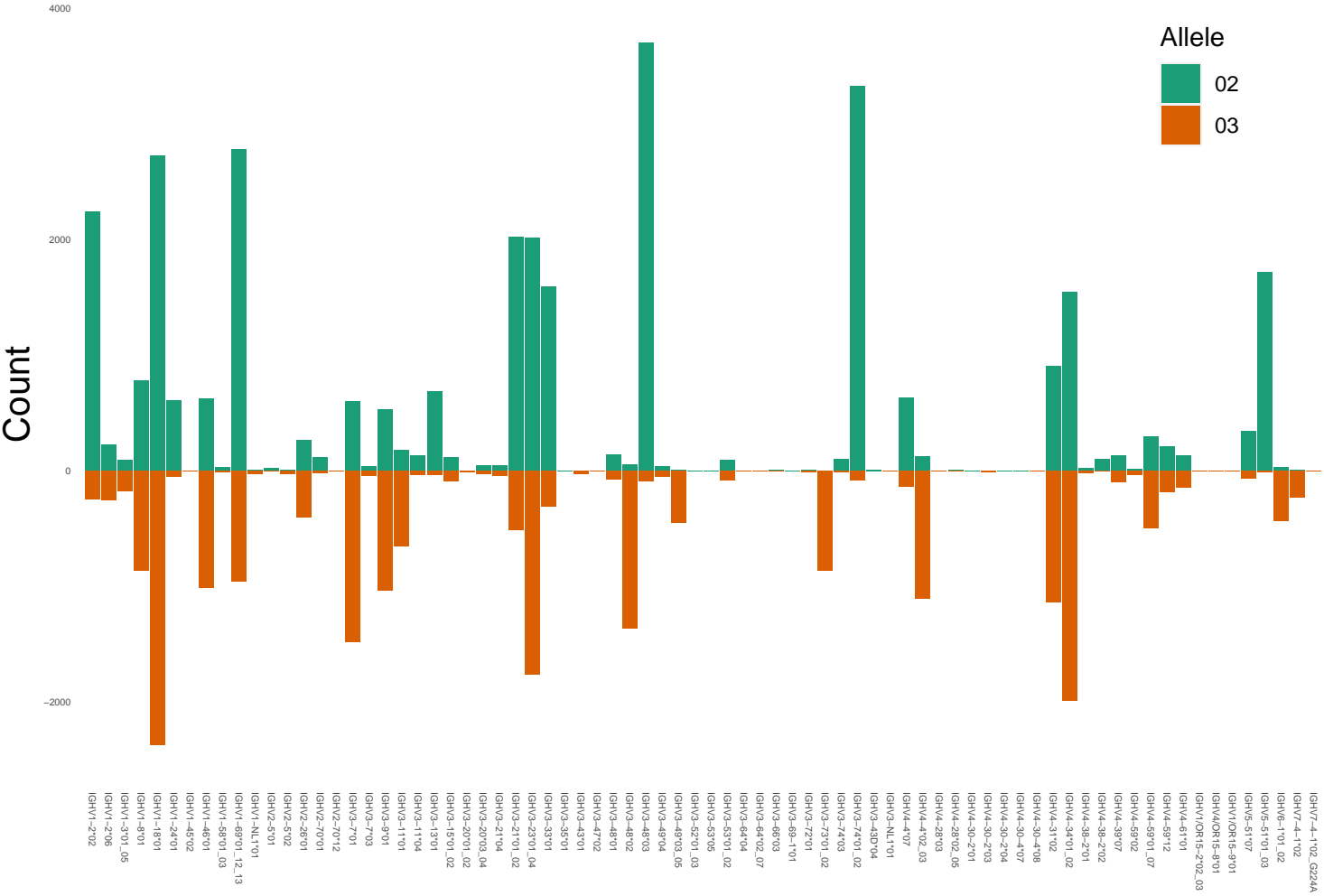
IGHV7-4-1*02_G224A



Allele Usage



Sequence Count by IGHJ6 allele usage



[illegible]