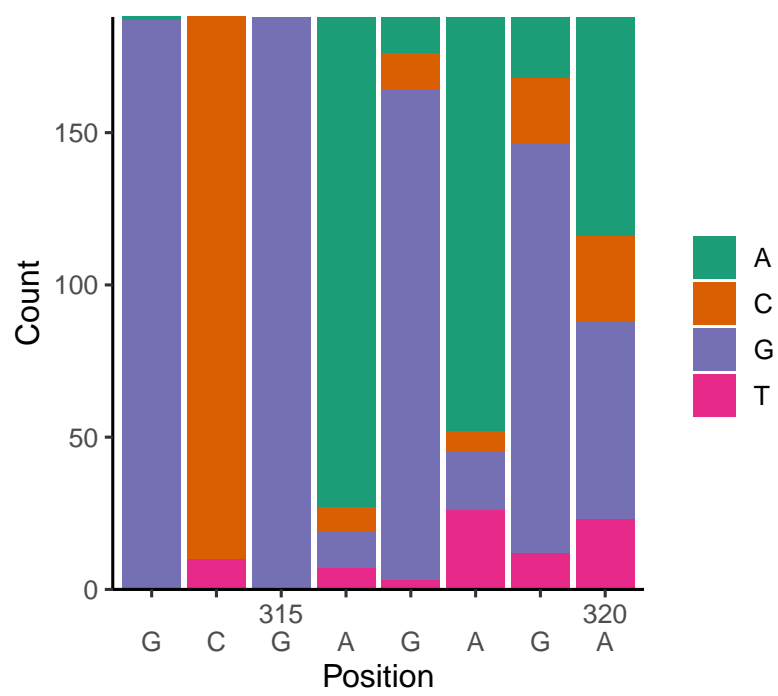
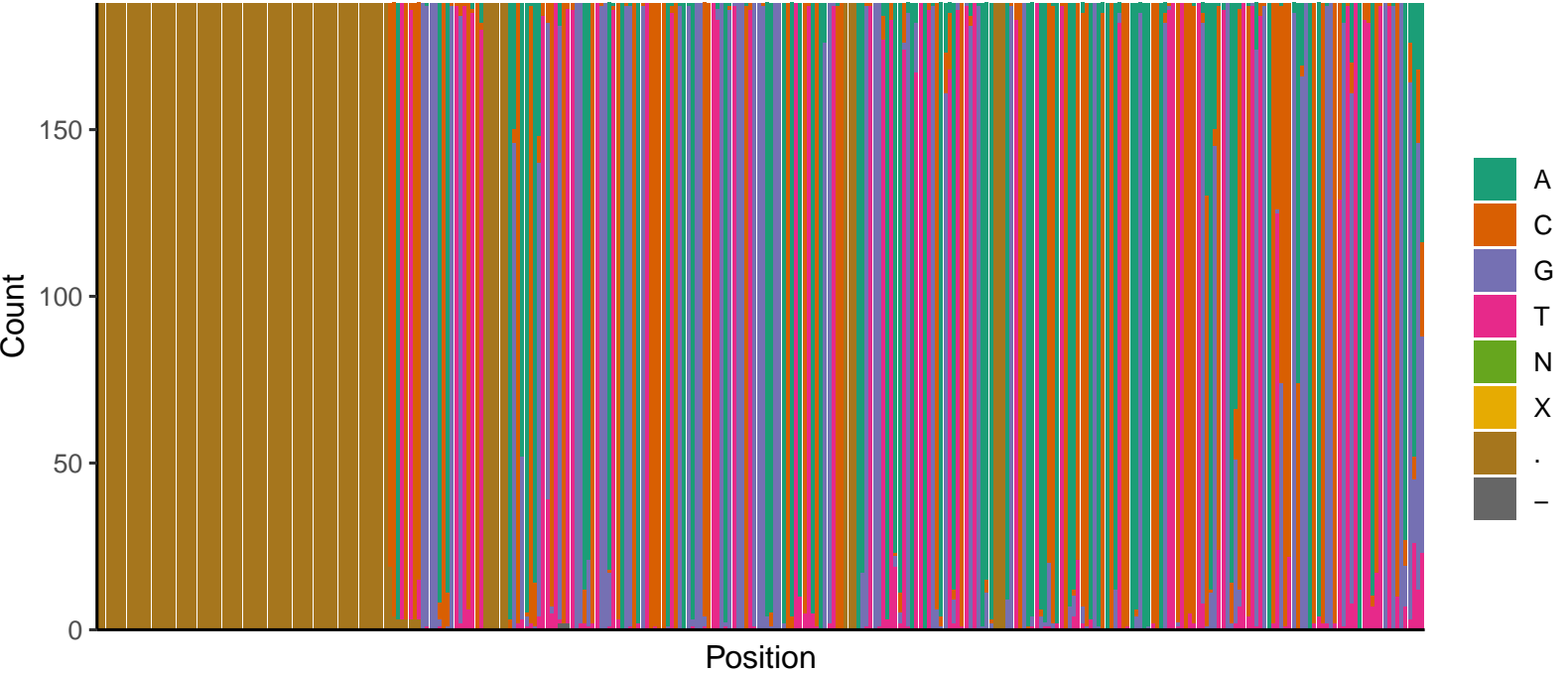


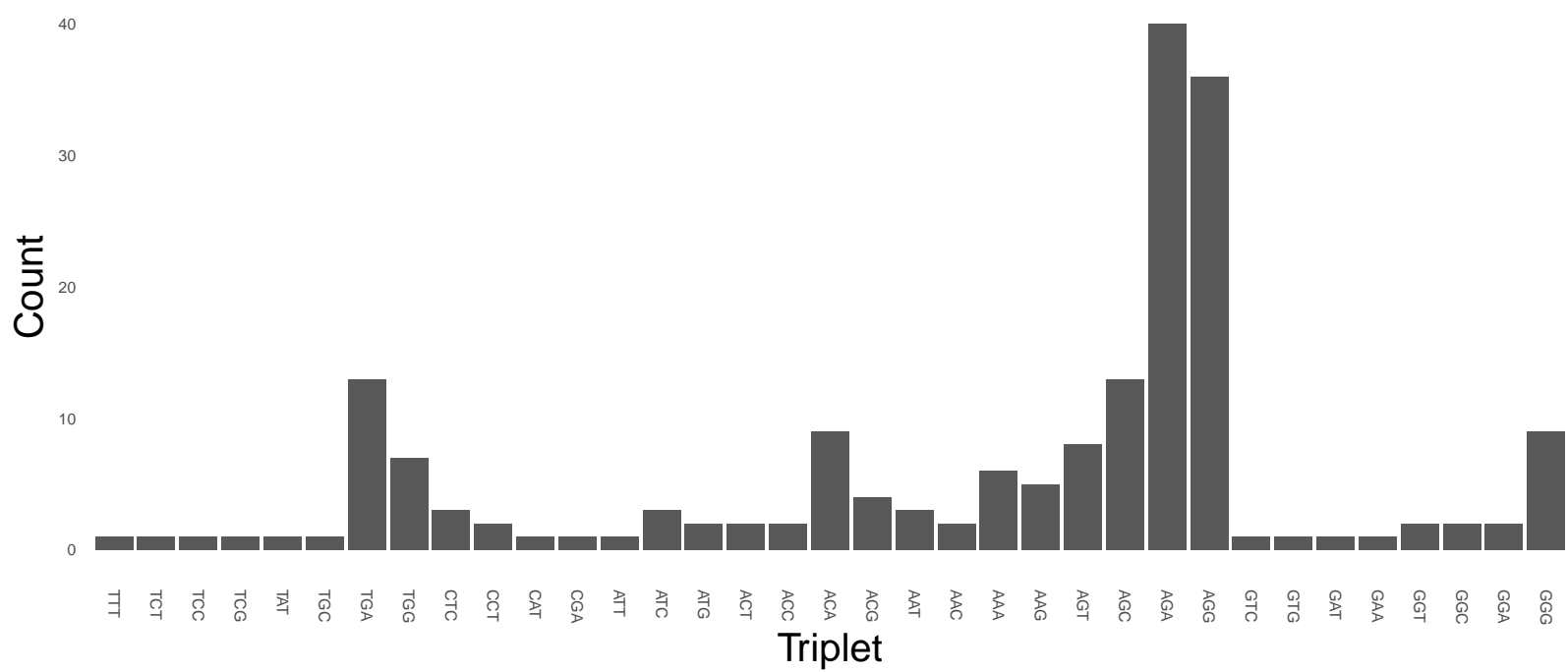
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

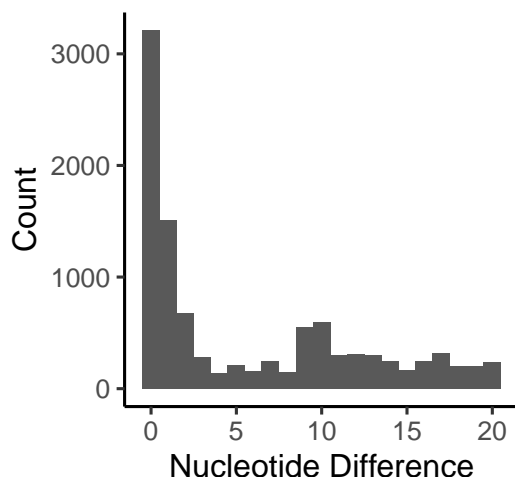


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



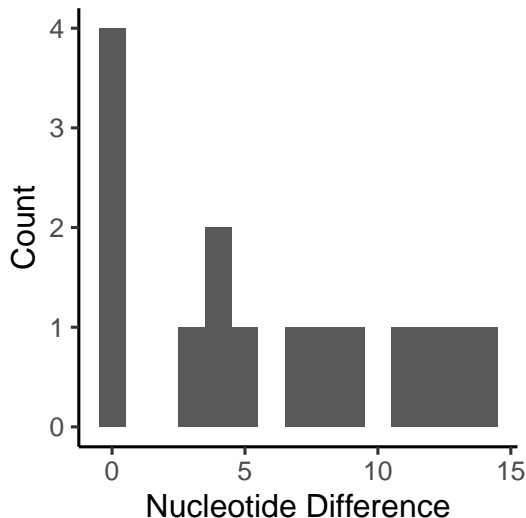
IGHV1-2*02

11155 sequences assigned
3210 (28.8%) exact matches, in which:
2979 unique CDR3
6 unique J



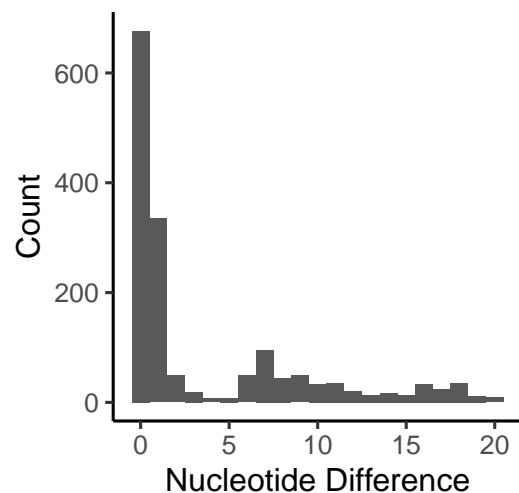
IGHV1-8*01

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



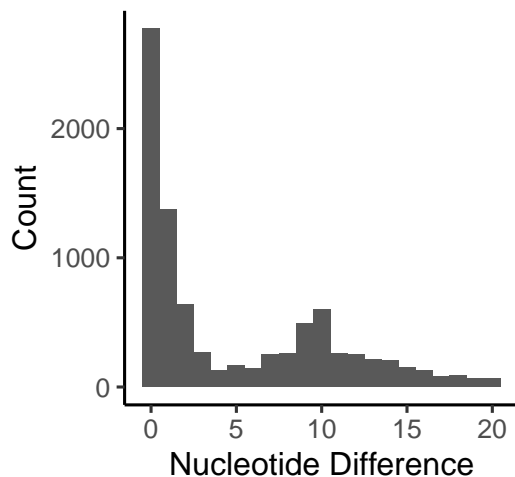
IGHV1-24*01

1597 sequences assigned
677 (42.4%) exact matches, in which:
622 unique CDR3
6 unique J



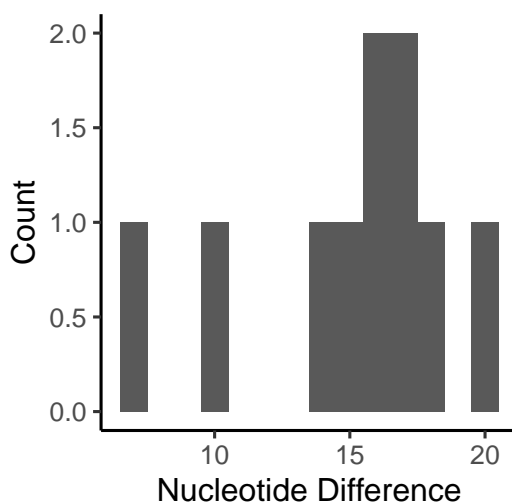
IGHV1-2*06

9569 sequences assigned
2773 (29%) exact matches, in which:
2567 unique CDR3
6 unique J



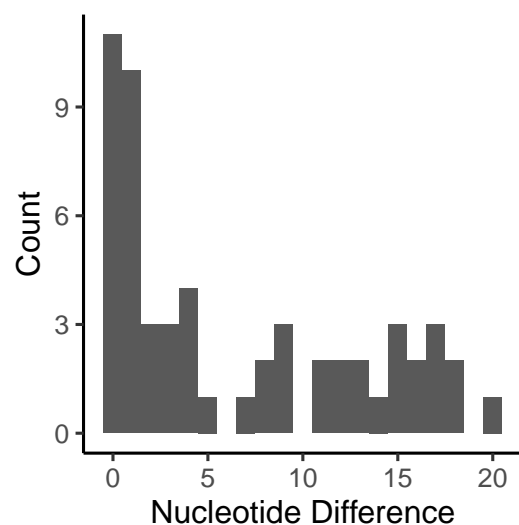
IGHV1-8*02

11 sequences assigned
No exact matches.



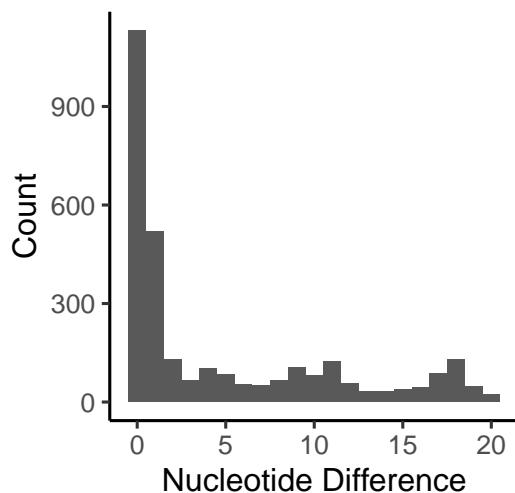
IGHV1-45*02

78 sequences assigned
11 (14.1%) exact matches, in which:
11 unique CDR3
4 unique J



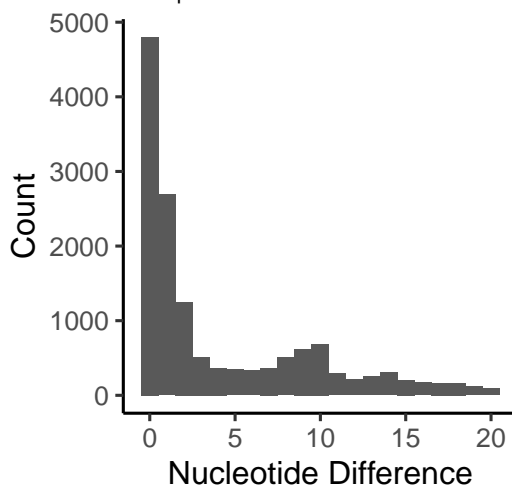
IGHV1-3*01_05

3672 sequences assigned
1132 (30.8%) exact matches, in which:
1020 unique CDR3
6 unique J



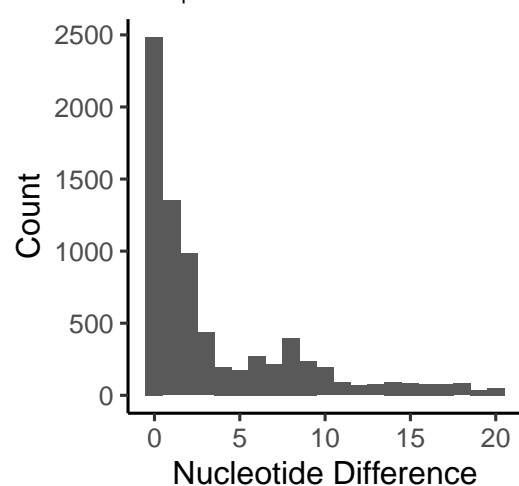
IGHV1-18*01

15302 sequences assigned
4801 (31.4%) exact matches, in which:
4387 unique CDR3
6 unique J



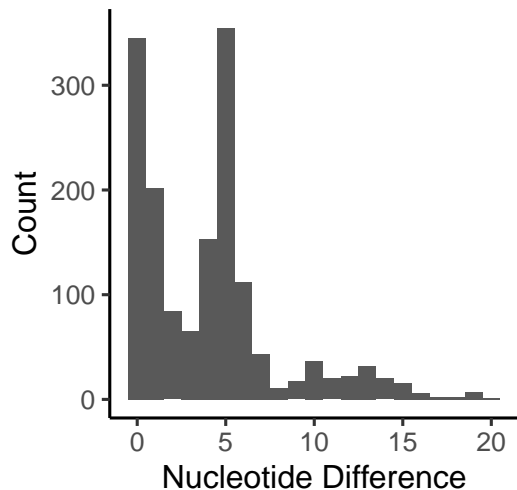
IGHV1-46*01

8700 sequences assigned
2485 (28.6%) exact matches, in which:
2340 unique CDR3
6 unique J



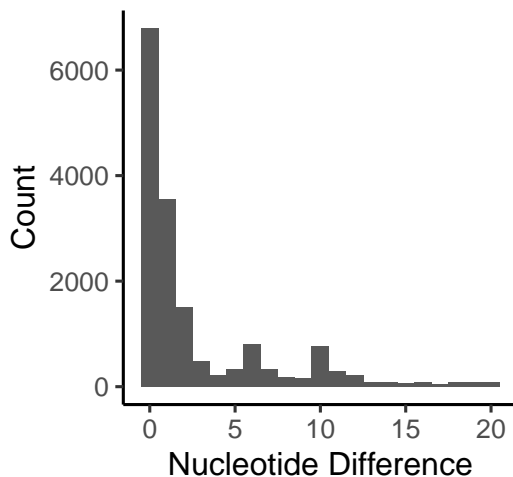
IGHV1–58*01_03

1649 sequences assigned
345 (20.9%) exact matches, in which:
328 unique CDR3
6 unique J



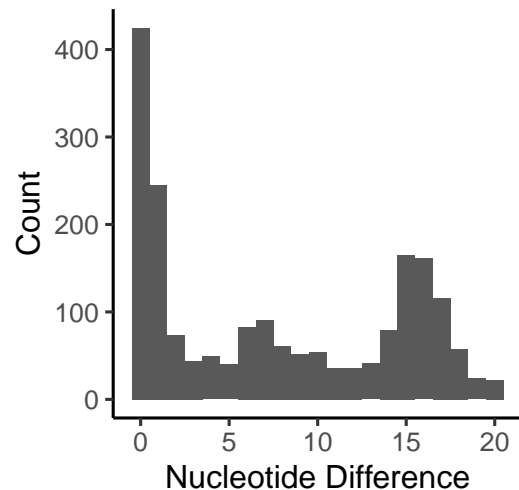
IGHV1–69*01_12_13

16954 sequences assigned
6790 (40%) exact matches, in which:
6329 unique CDR3
6 unique J



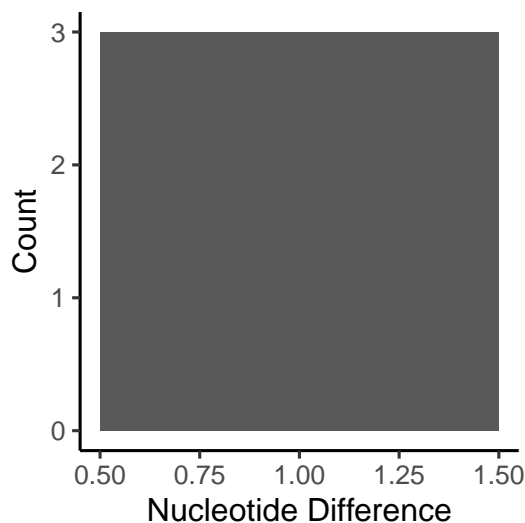
IGHV2–5*02

2335 sequences assigned
425 (18.2%) exact matches, in which:
382 unique CDR3
6 unique J



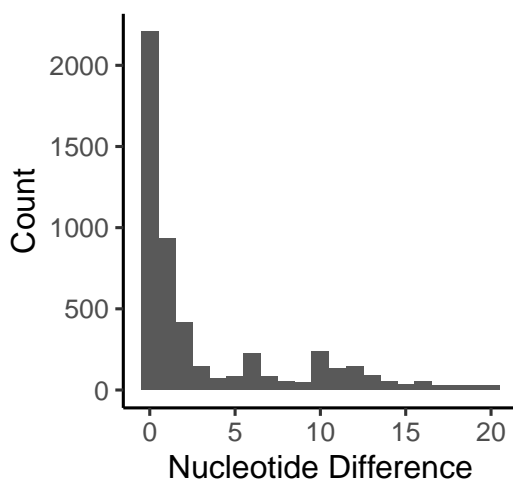
IGHV1–68*01

3 sequences assigned
No exact matches.



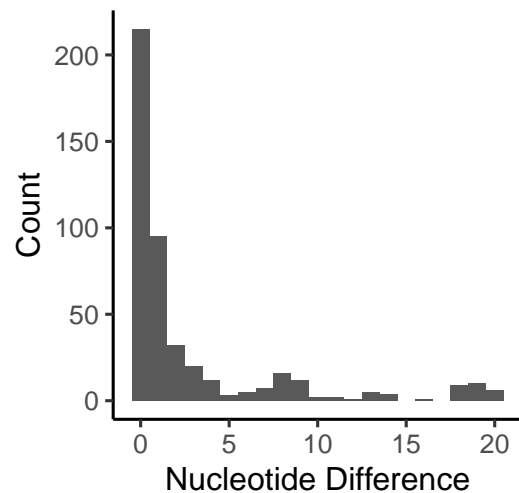
IGHV1–69*06_14

5396 sequences assigned
2207 (40.9%) exact matches, in which:
2103 unique CDR3
6 unique J



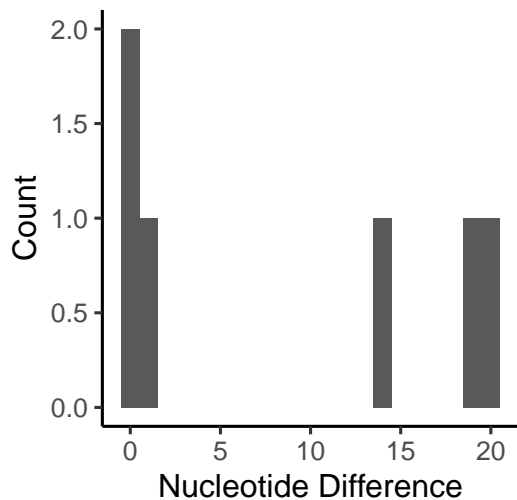
IGHV2–26*01

463 sequences assigned
215 (46.4%) exact matches, in which:
191 unique CDR3
5 unique J



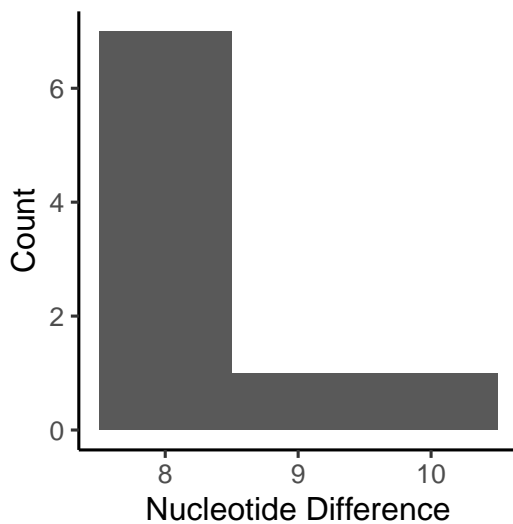
IGHV1–69–2*01

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
2 unique J



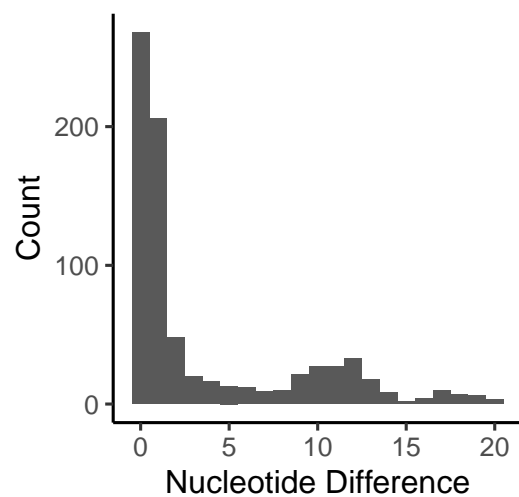
IGHV1–NL1*01

9 sequences assigned
No exact matches.



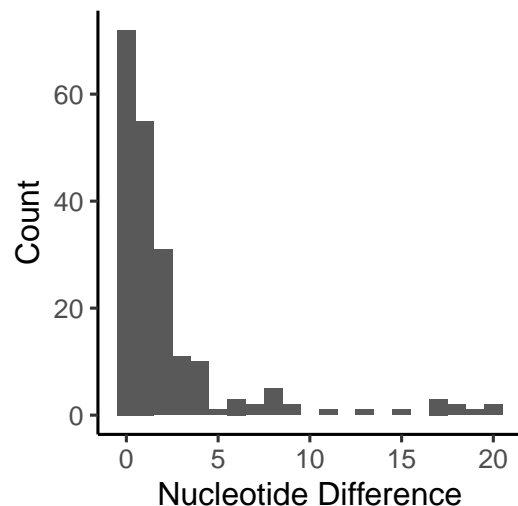
IGHV2–70*01

788 sequences assigned
268 (34%) exact matches, in which:
230 unique CDR3
6 unique J



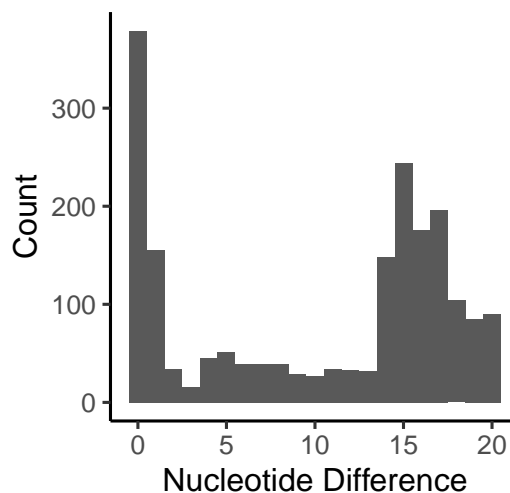
IGHV2-70*04

205 sequences assigned
72 (35.1%) exact matches, in which:
66 unique CDR3
4 unique J



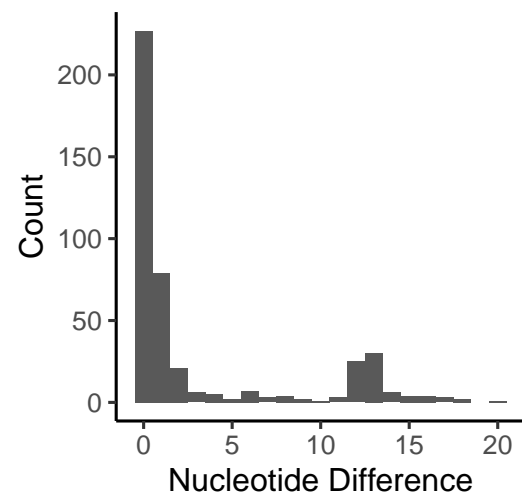
IGHV3-7*04

2456 sequences assigned
379 (15.4%) exact matches, in which:
285 unique CDR3
6 unique J



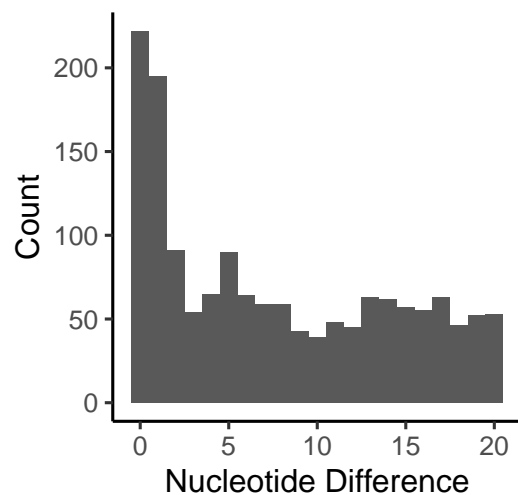
IGHV3-13*04

446 sequences assigned
227 (50.9%) exact matches, in which:
167 unique CDR3
5 unique J



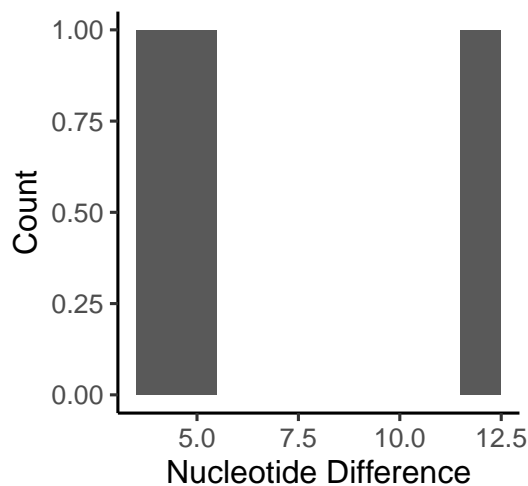
IGHV3-7*01

1706 sequences assigned
222 (13%) exact matches, in which:
217 unique CDR3
6 unique J



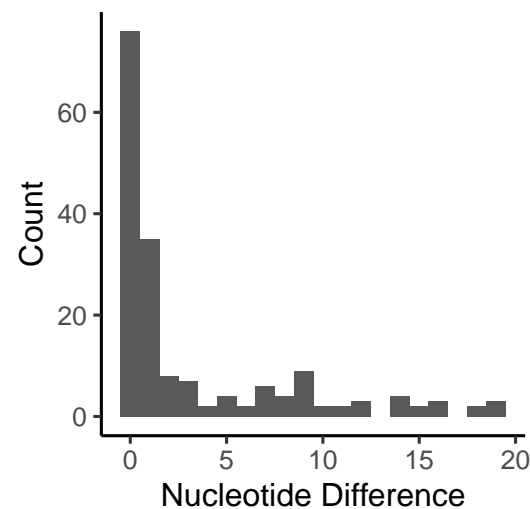
IGHV3-9*01

4 sequences assigned
No exact matches.



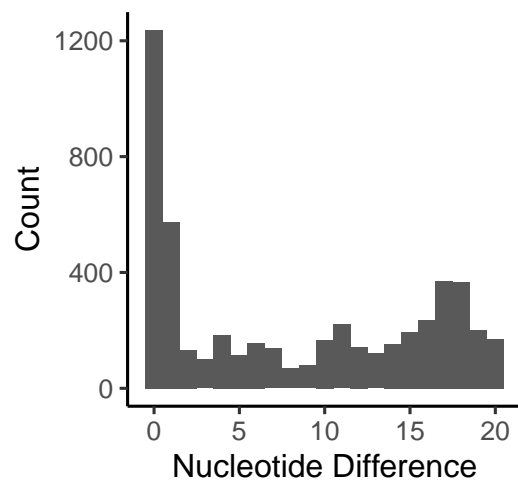
IGHV3-13*05

187 sequences assigned
76 (40.6%) exact matches, in which:
56 unique CDR3
6 unique J



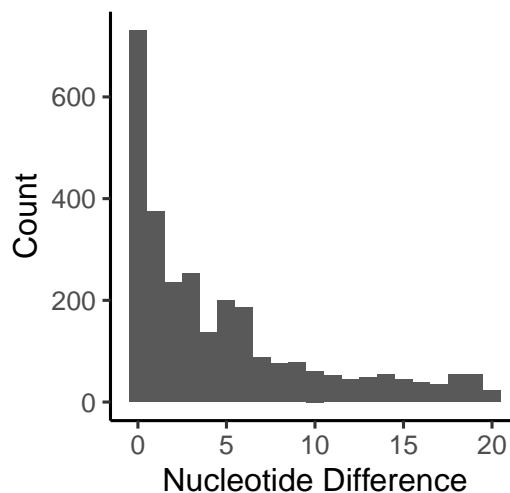
IGHV3-7*03

6393 sequences assigned
1237 (19.3%) exact matches, in which:
962 unique CDR3
6 unique J



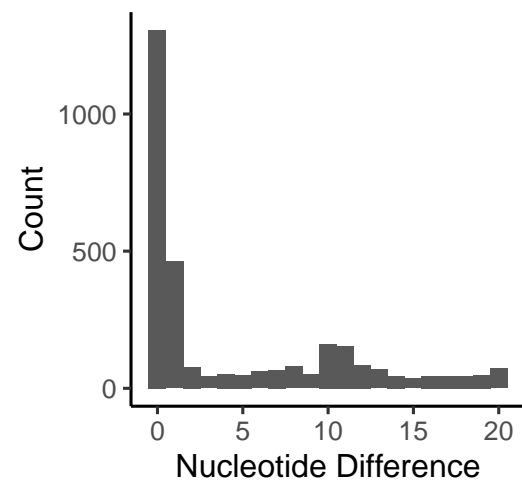
IGHV3-11*06

3204 sequences assigned
731 (22.8%) exact matches, in which:
598 unique CDR3
6 unique J



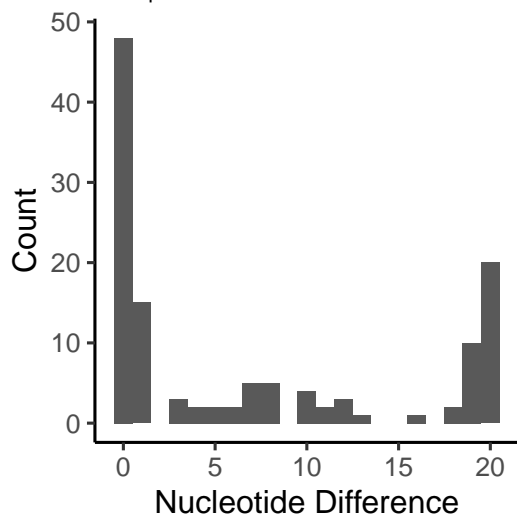
IGHV3-15*01_02

3565 sequences assigned
1306 (36.6%) exact matches, in which:
1008 unique CDR3
6 unique J



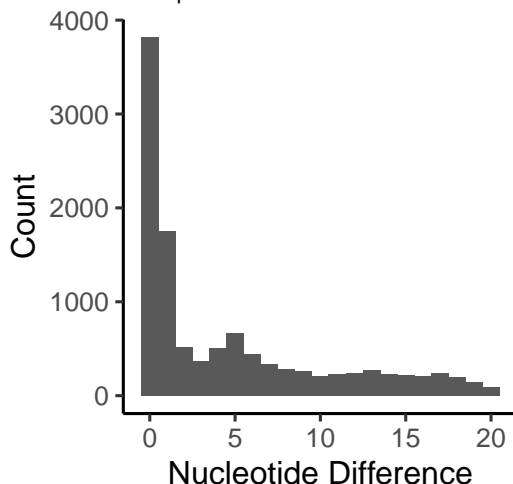
IGHV3-20*01_02

128 sequences assigned
48 (37.5%) exact matches, in which:
34 unique CDR3
5 unique J



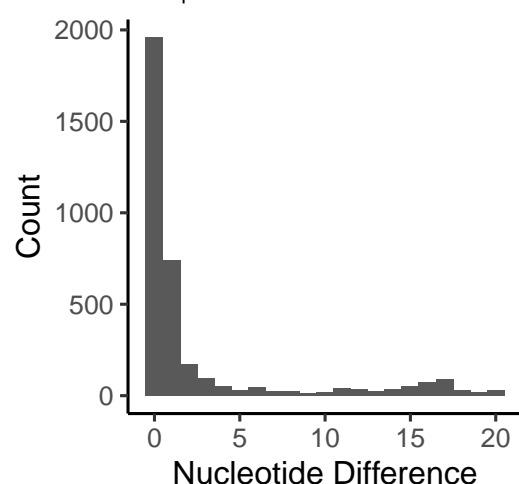
IGHV3-21*01_02

11907 sequences assigned
3816 (32%) exact matches, in which:
2846 unique CDR3
6 unique J



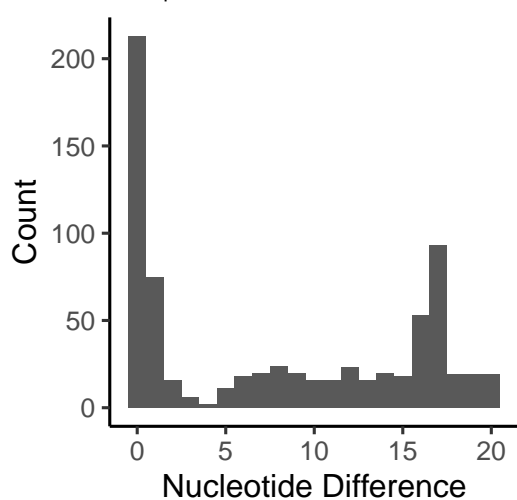
IGHV3-30-3*01

4201 sequences assigned
1959 (46.6%) exact matches, in which:
1526 unique CDR3
6 unique J



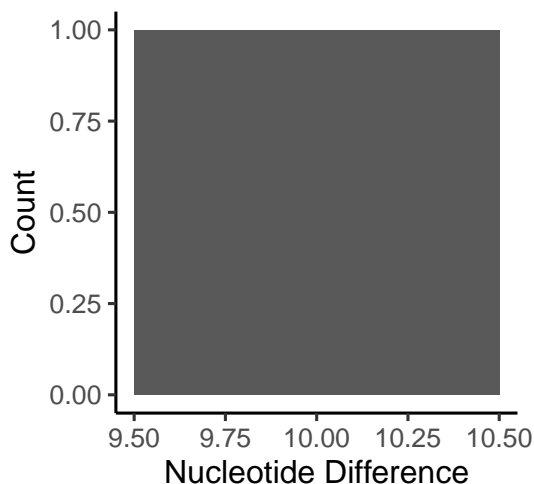
IGHV3-20*03_04

989 sequences assigned
213 (21.5%) exact matches, in which:
163 unique CDR3
6 unique J



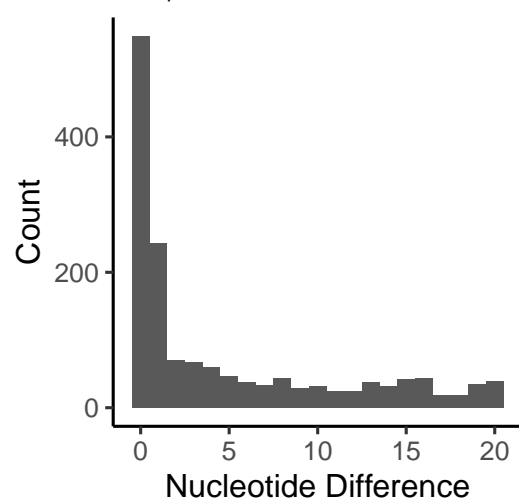
IGHV3-22*01_02

1 sequences assigned
No exact matches.



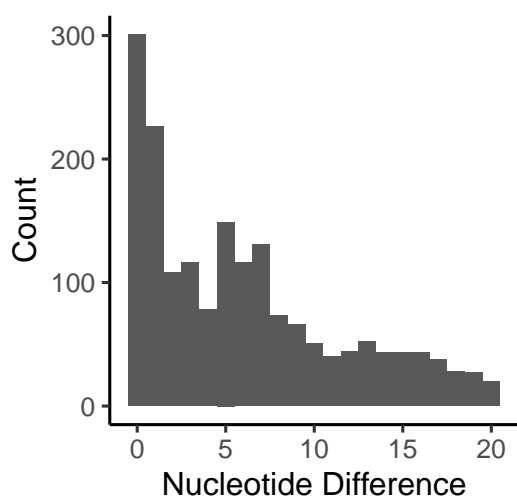
IGHV3-30*03

1635 sequences assigned
549 (33.6%) exact matches, in which:
517 unique CDR3
6 unique J



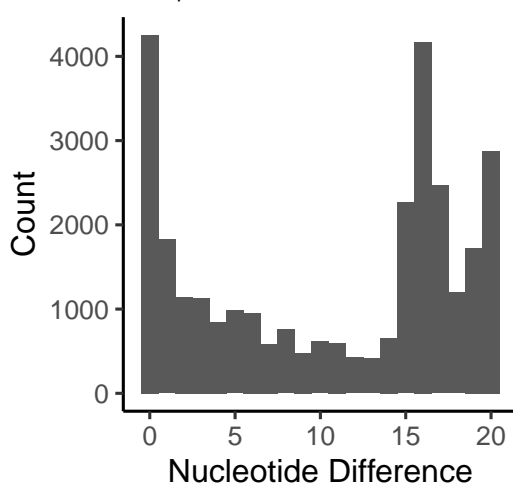
IGHV3-21*04

2089 sequences assigned
301 (14.4%) exact matches, in which:
285 unique CDR3
6 unique J



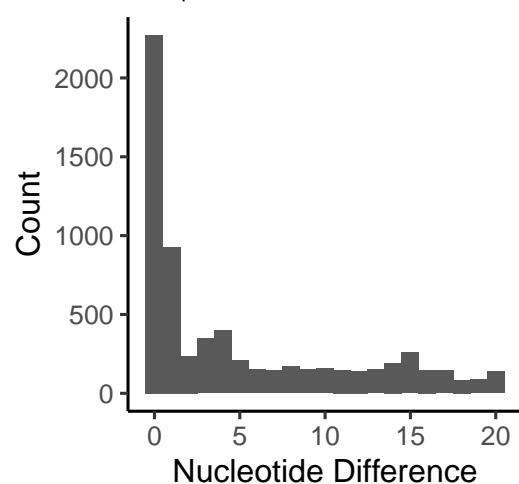
IGHV3-23*01_04

38162 sequences assigned
4253 (11.1%) exact matches, in which:
3008 unique CDR3
6 unique J



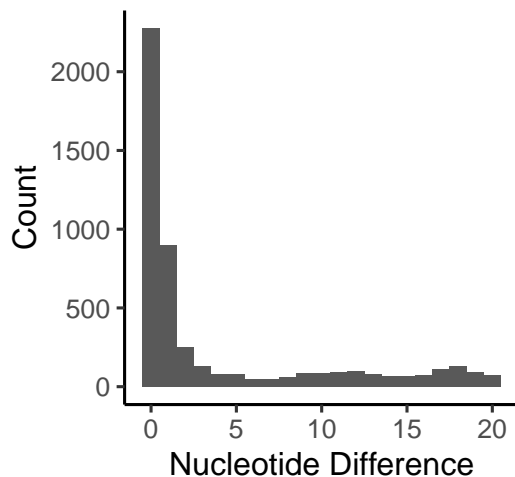
IGHV3-30*18

7344 sequences assigned
2272 (30.9%) exact matches, in which:
1730 unique CDR3
6 unique J



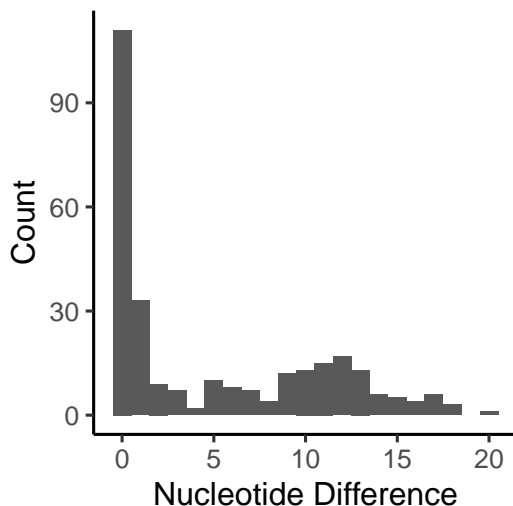
IGHV3-33*01

5729 sequences assigned
2275 (39.7%) exact matches, in which:
1826 unique CDR3
6 unique J



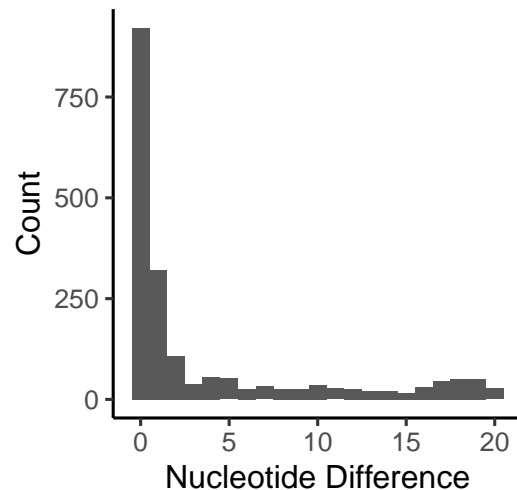
IGHV3-43*01

310 sequences assigned
111 (35.8%) exact matches, in which:
86 unique CDR3
6 unique J



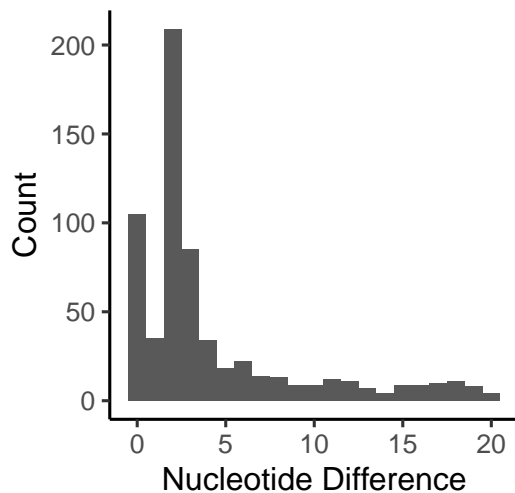
IGHV3-48*02

2163 sequences assigned
922 (42.6%) exact matches, in which:
717 unique CDR3
6 unique J



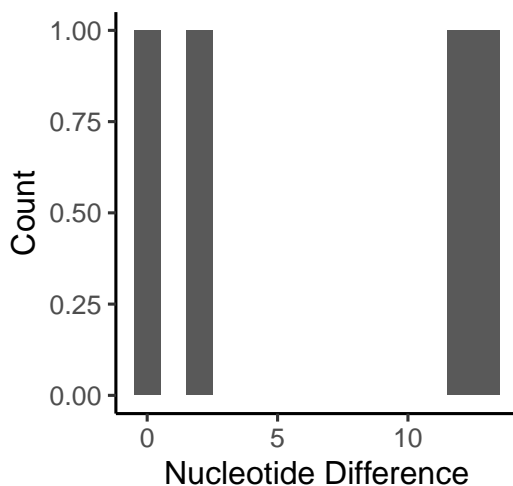
IGHV3-33*06

699 sequences assigned
105 (15%) exact matches, in which:
101 unique CDR3
5 unique J



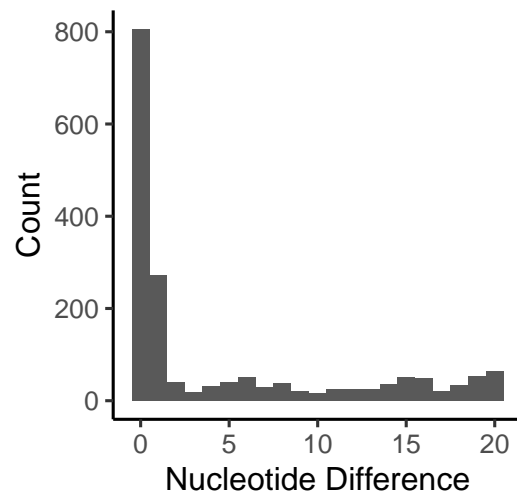
IGHV3-47*02

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



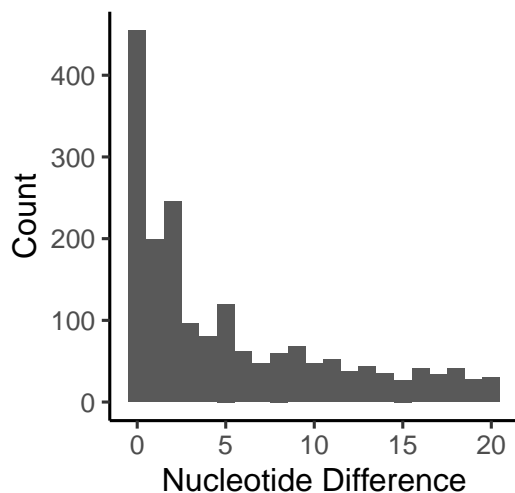
IGHV3-48*03

2326 sequences assigned
806 (34.7%) exact matches, in which:
634 unique CDR3
6 unique J



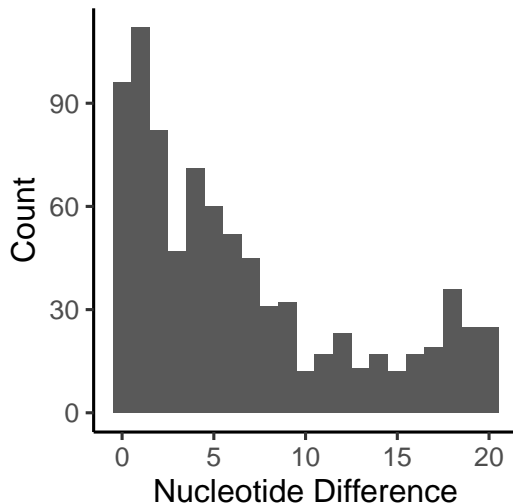
IGHV3-33*08

2071 sequences assigned
455 (22%) exact matches, in which:
421 unique CDR3
6 unique J



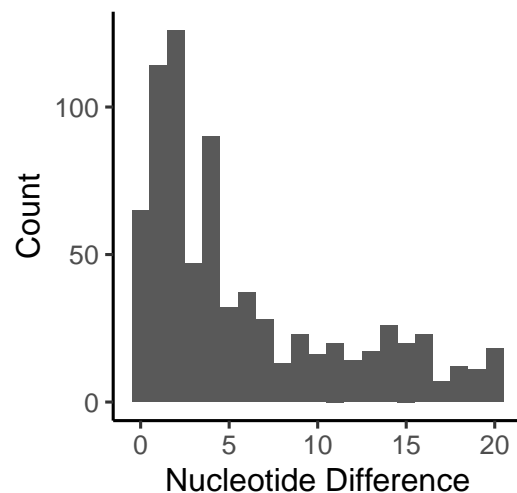
IGHV3-48*01

917 sequences assigned
96 (10.5%) exact matches, in which:
91 unique CDR3
6 unique J



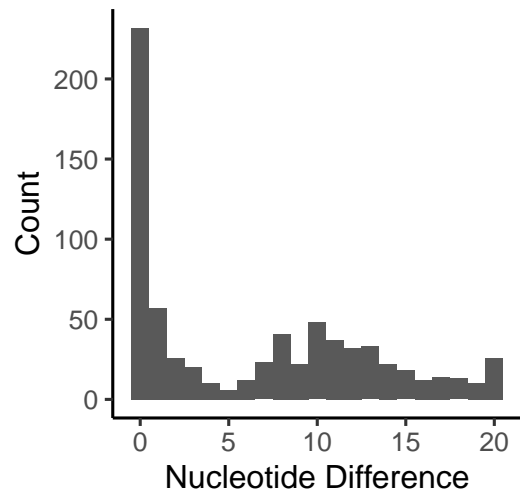
IGHV3-48*04

875 sequences assigned
65 (7.4%) exact matches, in which:
64 unique CDR3
6 unique J



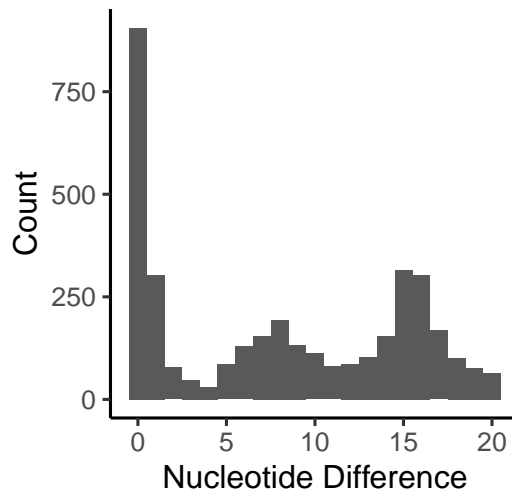
IGHV3-49*04

849 sequences assigned
232 (27.3%) exact matches, in which:
194 unique CDR3
6 unique J



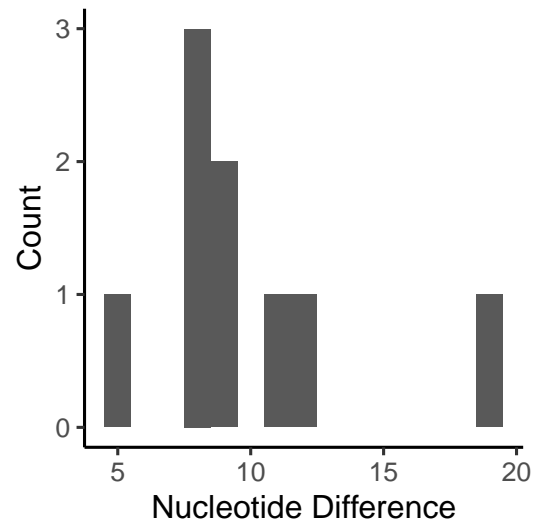
IGHV3-53*01_02

4398 sequences assigned
906 (20.6%) exact matches, in which:
713 unique CDR3
6 unique J



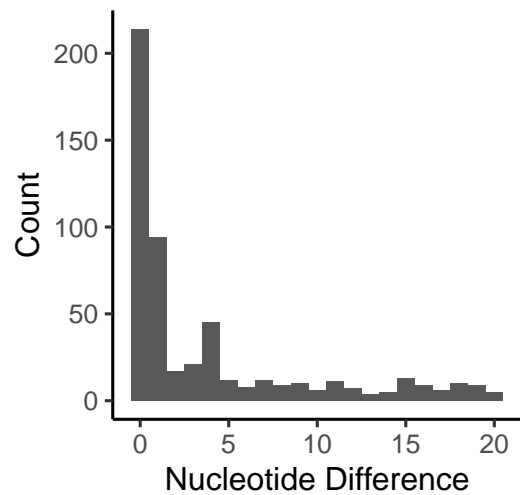
IGHV3-66*02

13 sequences assigned
No exact matches.



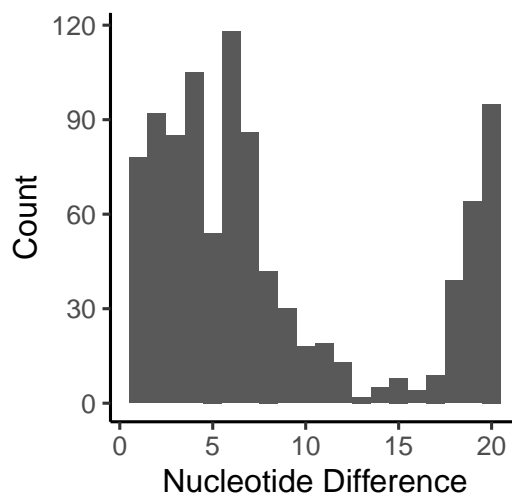
IGHV3-49*03_05

576 sequences assigned
214 (37.2%) exact matches, in which:
175 unique CDR3
5 unique J



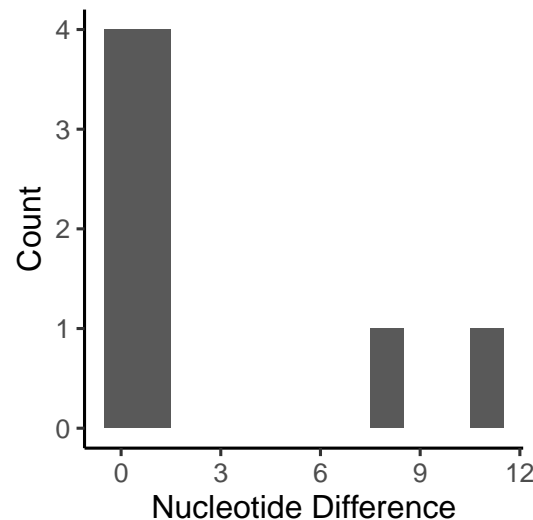
IGHV3-64*04

1103 sequences assigned
No exact matches.



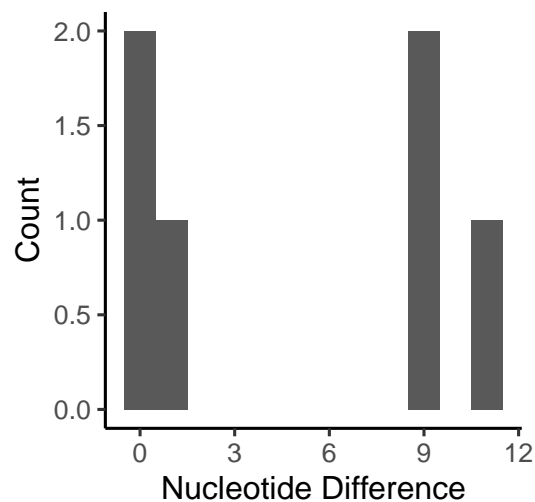
IGHV3-66*03

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



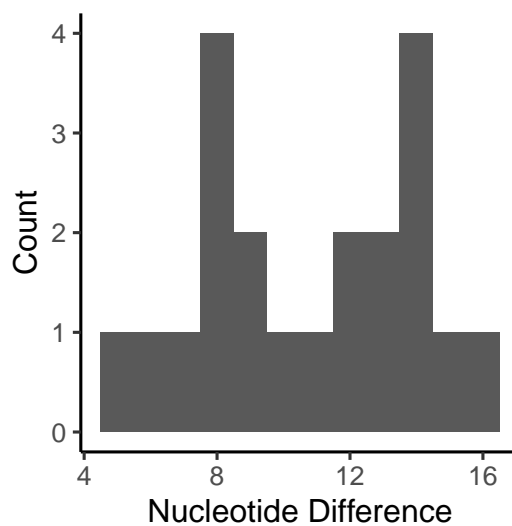
IGHV3-52*01_03

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



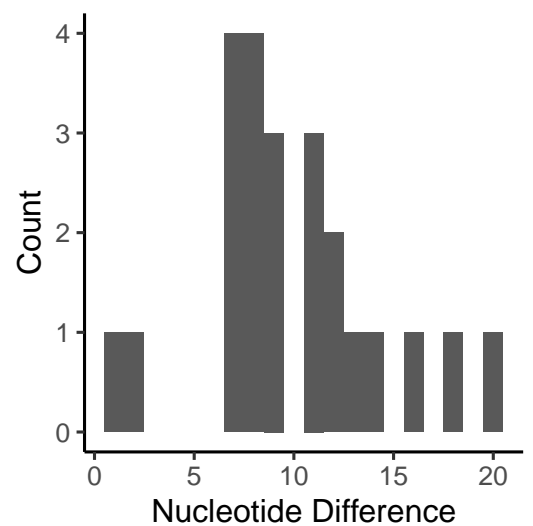
IGHV3-66*01

23 sequences assigned
No exact matches.



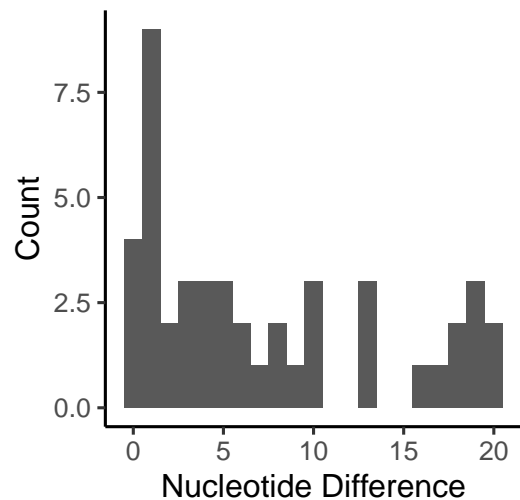
IGHV3-66*04

29 sequences assigned
No exact matches.



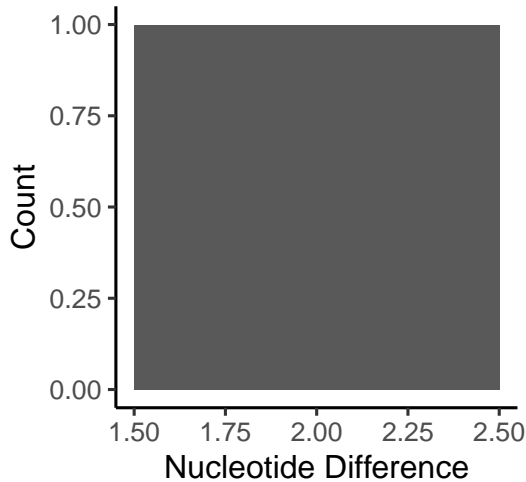
IGHV3-69-1*01

72 sequences assigned
4 (5.6%) exact matches, in which:
4 unique CDR3
3 unique J



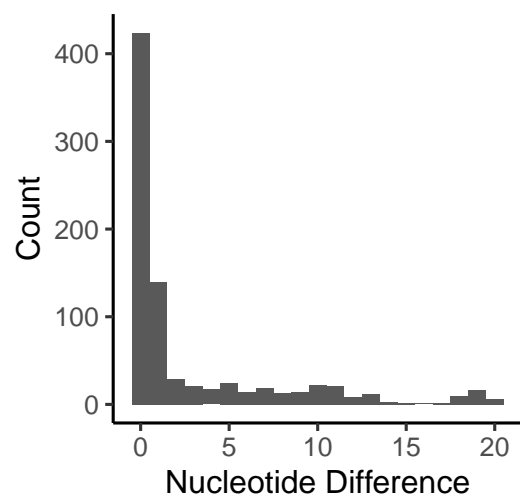
IGHV3-71*03

1 sequences assigned
No exact matches.



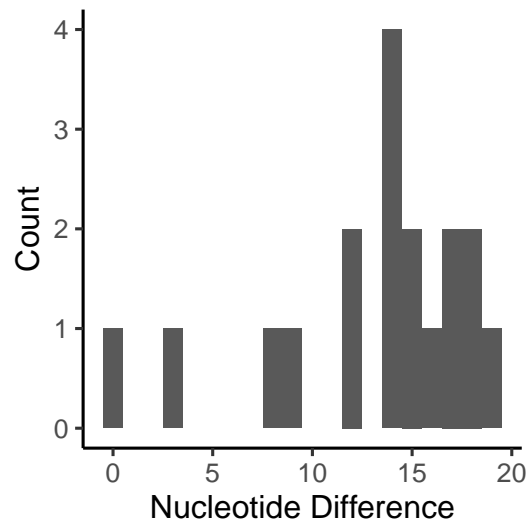
IGHV3-73*01_02

1013 sequences assigned
424 (41.9%) exact matches, in which:
319 unique CDR3
6 unique J



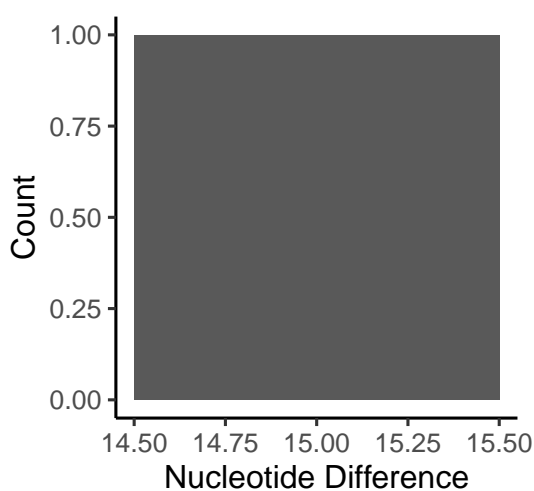
IGHV3-69-1*02

37 sequences assigned
1 (2.7%) exact matches, in which:
1 unique CDR3
1 unique J



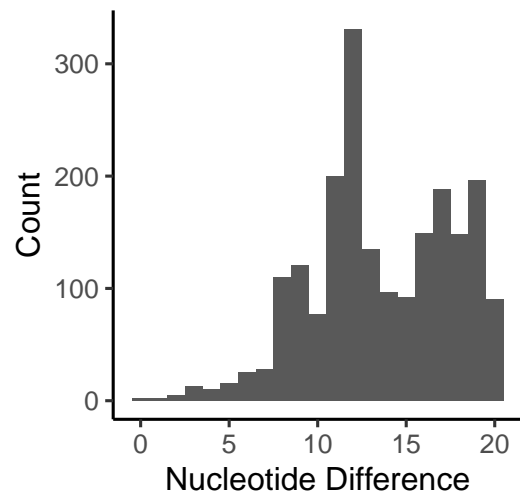
IGHV3-71*01_04

3 sequences assigned
No exact matches.



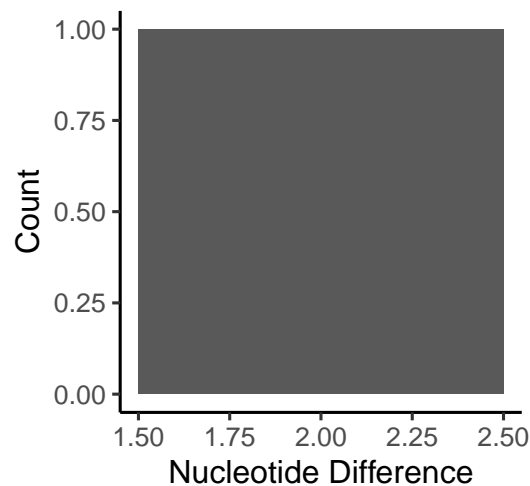
IGHV3-74*03

2534 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
1 unique J



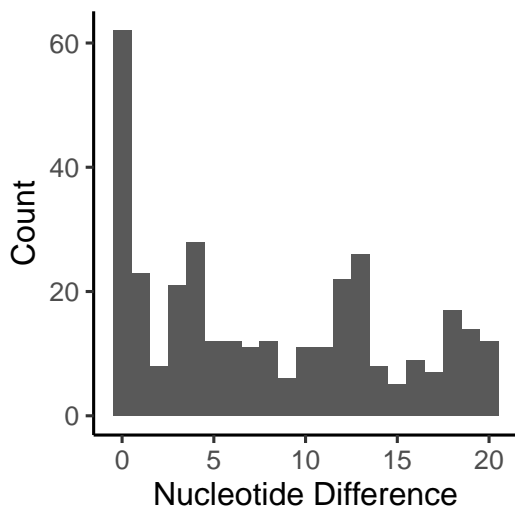
IGHV3-71*02

1 sequences assigned
No exact matches.



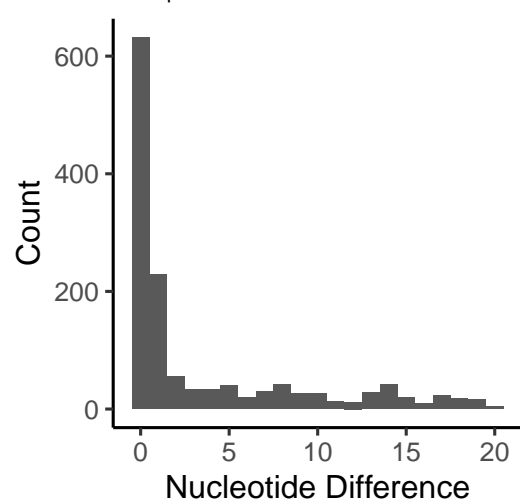
IGHV3-72*01

516 sequences assigned
62 (12%) exact matches, in which:
51 unique CDR3
6 unique J



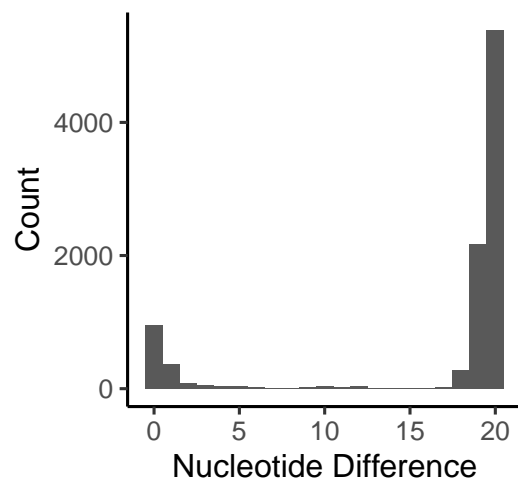
IGHV3-74*01_02

1472 sequences assigned
632 (42.9%) exact matches, in which:
449 unique CDR3
6 unique J



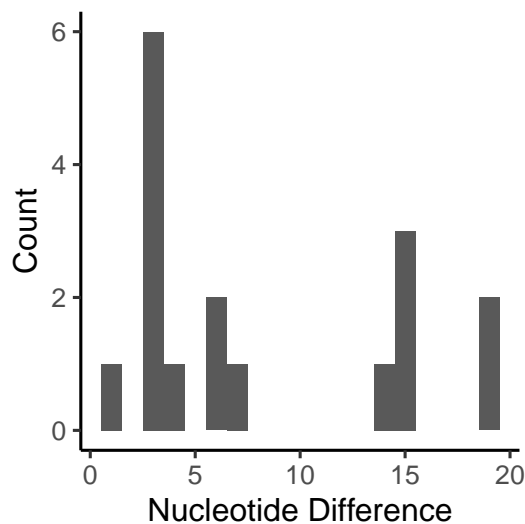
IGHV3-64D*06

14607 sequences assigned
959 (6.6%) exact matches, in which:
673 unique CDR3
6 unique J



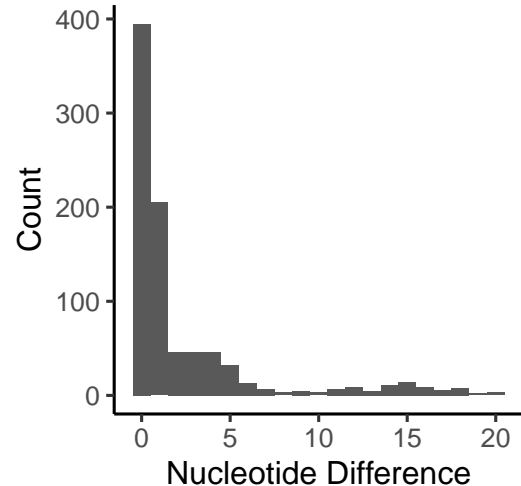
IGHV4-28*03

27 sequences assigned
No exact matches.



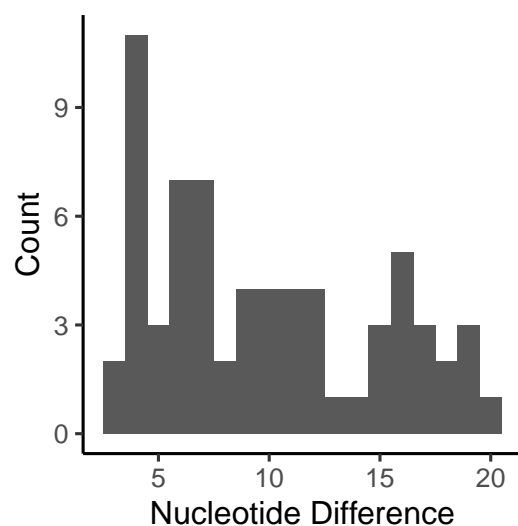
IGHV4-30-4*01

1150 sequences assigned
395 (34.3%) exact matches, in which:
363 unique CDR3
6 unique J



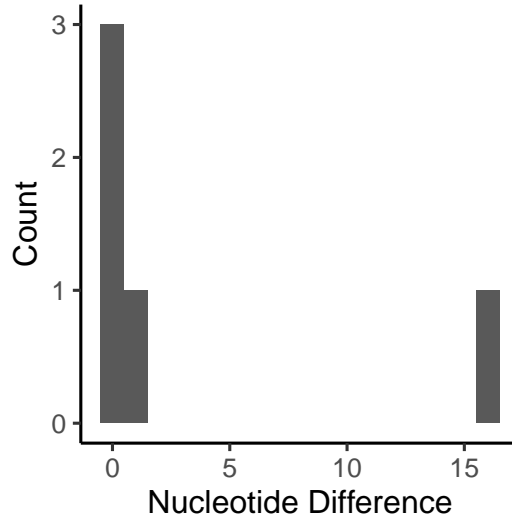
IGHV3-NL1*01

88 sequences assigned
No exact matches.



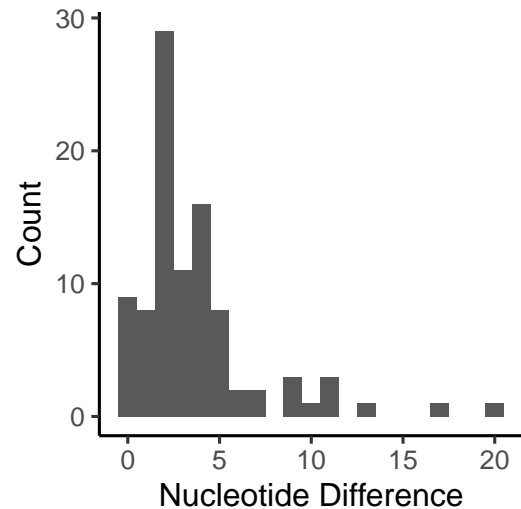
IGHV4-28*01_07

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
1 unique J



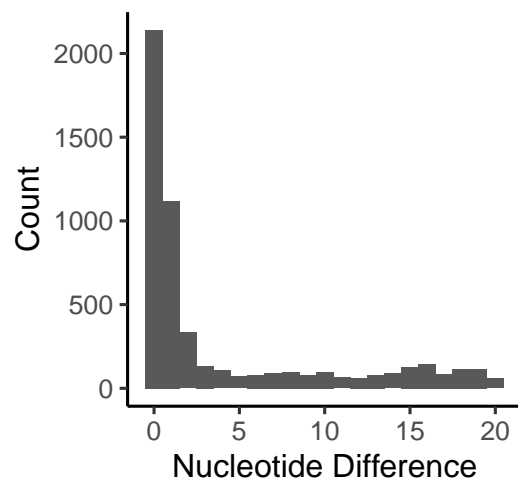
IGHV4-30-2*05

96 sequences assigned
9 (9.4%) exact matches, in which:
9 unique CDR3
4 unique J



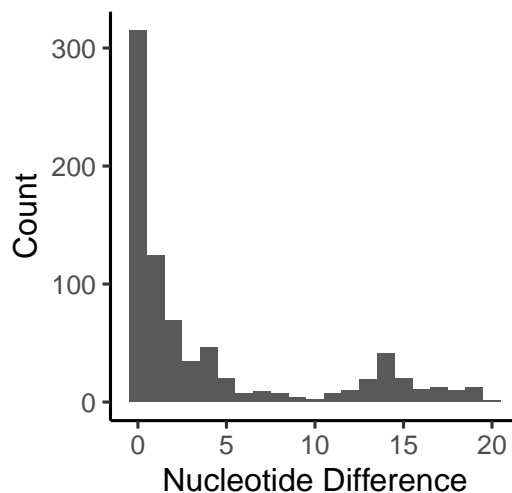
IGHV4-4*02_03

6243 sequences assigned
2140 (34.3%) exact matches, in which:
1930 unique CDR3
6 unique J



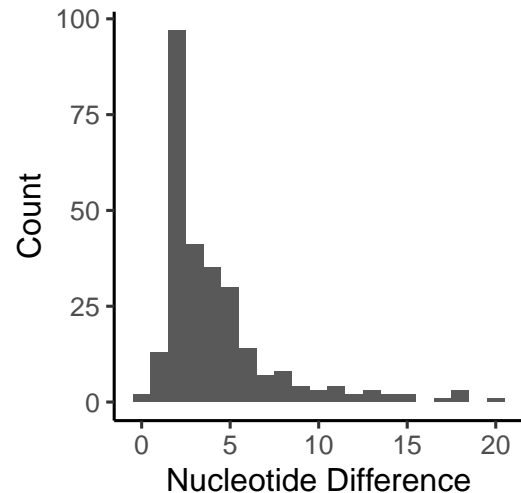
IGHV4-30-2*01

801 sequences assigned
315 (39.3%) exact matches, in which:
250 unique CDR3
6 unique J



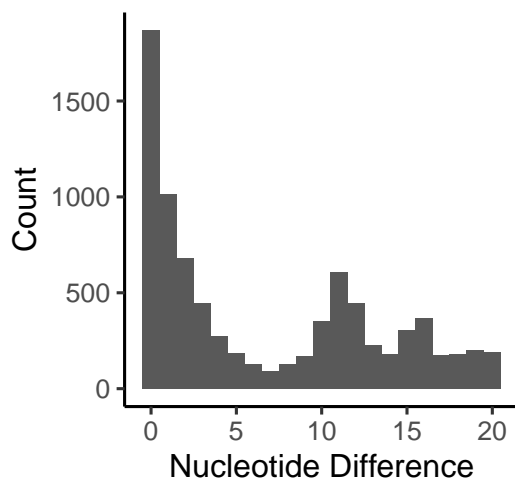
IGHV4-30-4*08

331 sequences assigned
2 (0.6%) exact matches, in which:
2 unique CDR3
2 unique J



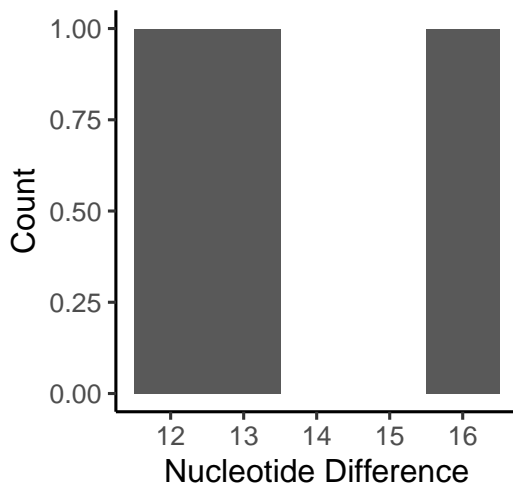
IGHV4-31*02

9060 sequences assigned
1868 (20.6%) exact matches, in which:
1740 unique CDR3
6 unique J



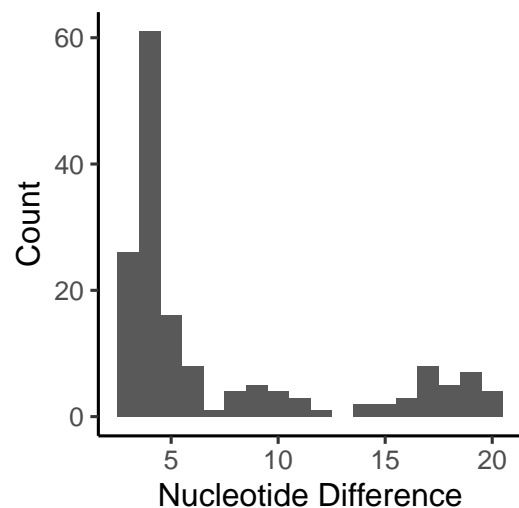
IGHV4-38-2*02

7 sequences assigned
No exact matches.



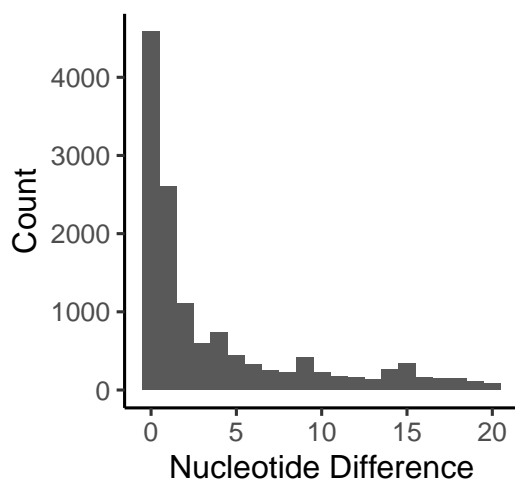
IGHV4-59*05

196 sequences assigned
No exact matches.



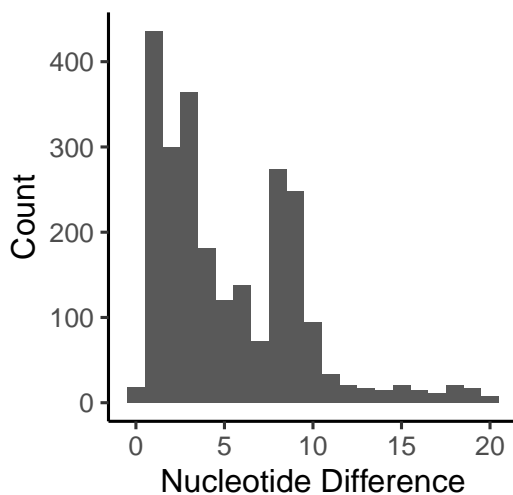
IGHV4-34*01_02

14163 sequences assigned
4583 (32.4%) exact matches, in which:
4047 unique CDR3
6 unique J



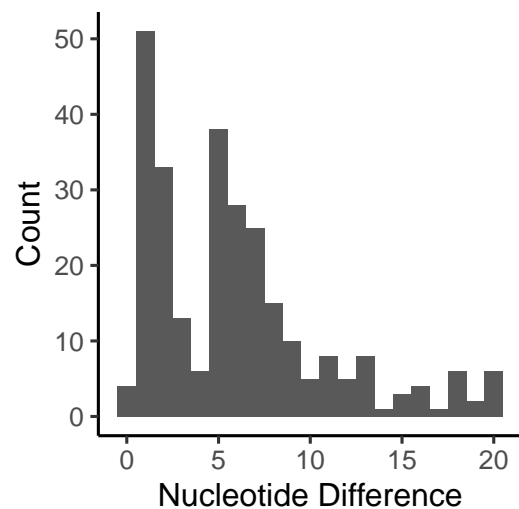
IGHV4-39*07

2687 sequences assigned
18 (0.7%) exact matches, in which:
18 unique CDR3
4 unique J



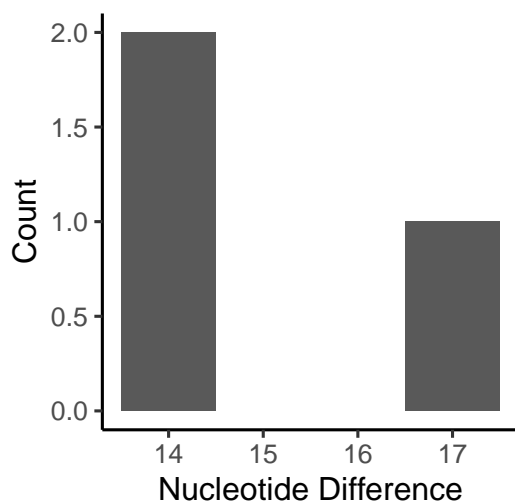
IGHV4-59*08

304 sequences assigned
4 (1.3%) exact matches, in which:
4 unique CDR3
1 unique J



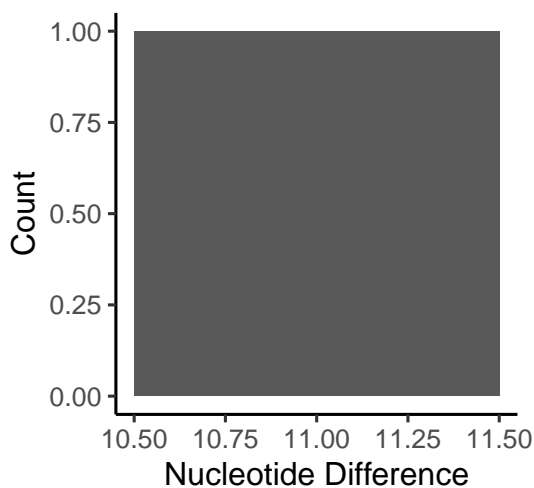
IGHV4-38-2*01

7 sequences assigned
No exact matches.



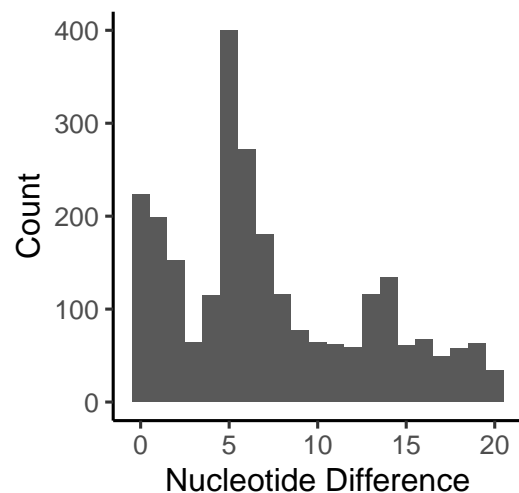
IGHV4-55*09

10 sequences assigned
No exact matches.



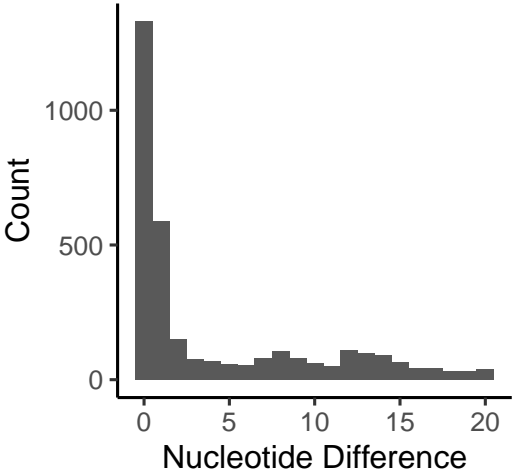
IGHV4-59*12

2812 sequences assigned
223 (7.9%) exact matches, in which:
221 unique CDR3
6 unique J



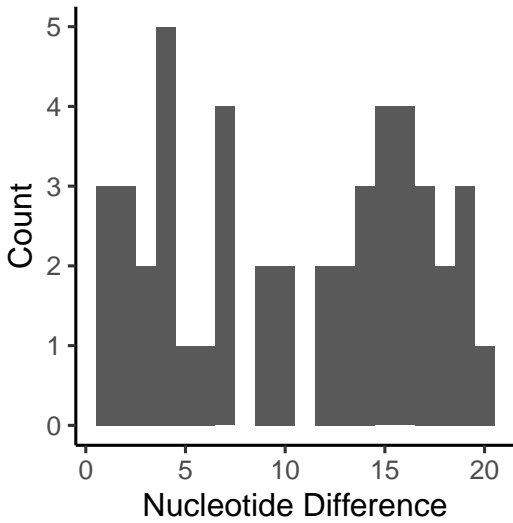
IGHV4-61*01

3930 sequences assigned
1330 (33.8%) exact matches, in which:
1277 unique CDR3
6 unique J



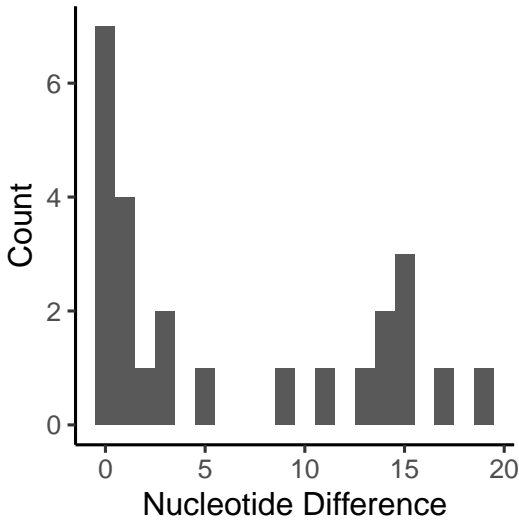
IGHV4/OR15-8*01

129 sequences assigned
No exact matches.



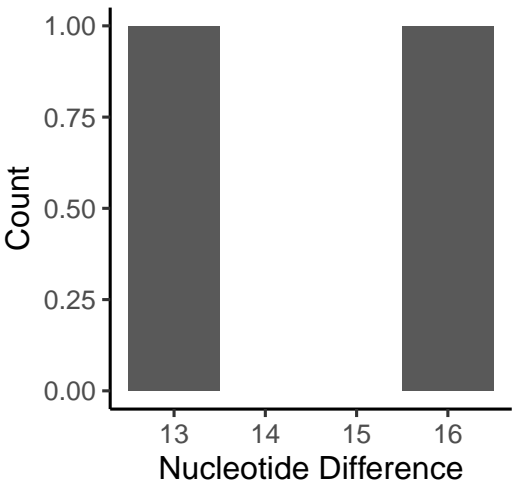
IGHV5-51*04

31 sequences assigned
7 (22.6%) exact matches, in which:
7 unique CDR3
3 unique J



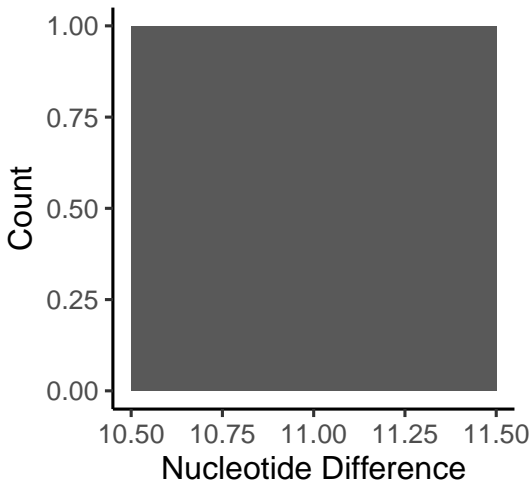
IGHV1/OR15-2*01

2 sequences assigned
No exact matches.



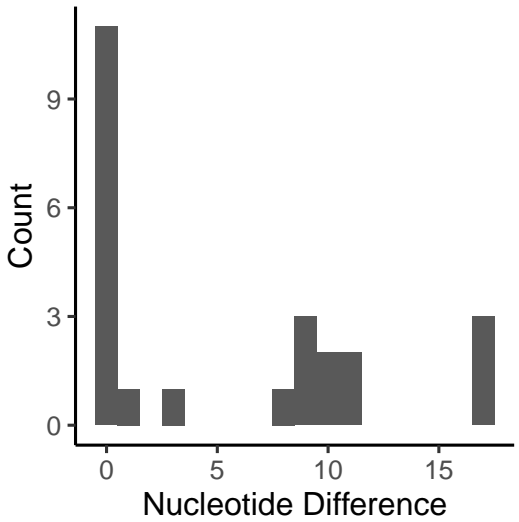
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



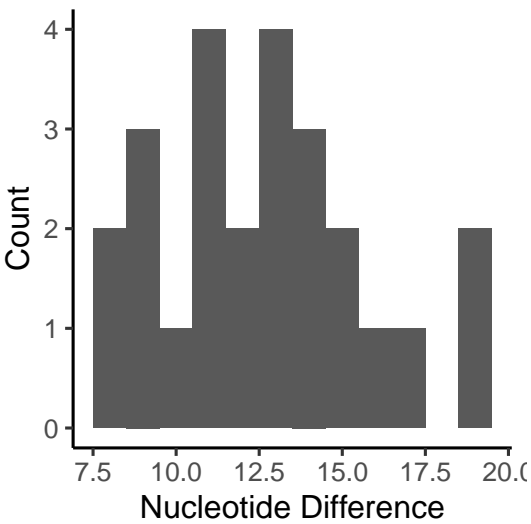
IGHV5-51*06

26 sequences assigned
11 (42.3%) exact matches, in which:
11 unique CDR3
5 unique J



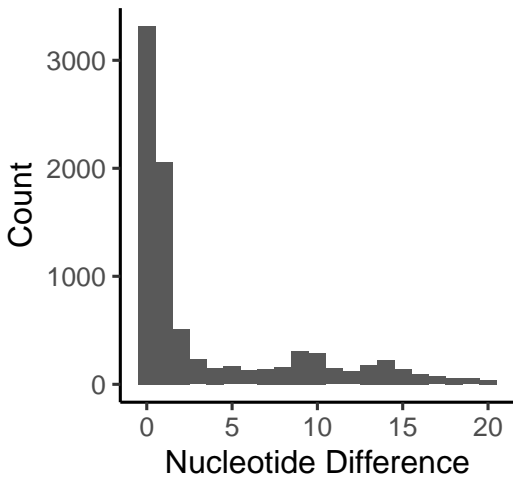
IGHV1/OR15-3*02

27 sequences assigned
No exact matches.



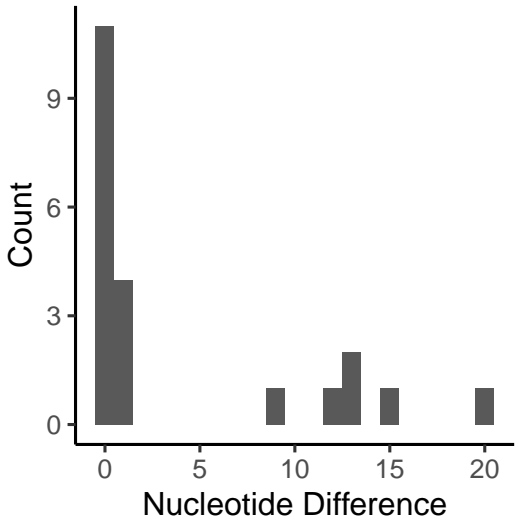
IGHV5-10-1*01_03

9091 sequences assigned
3317 (36.5%) exact matches, in which:
2371 unique CDR3
6 unique J



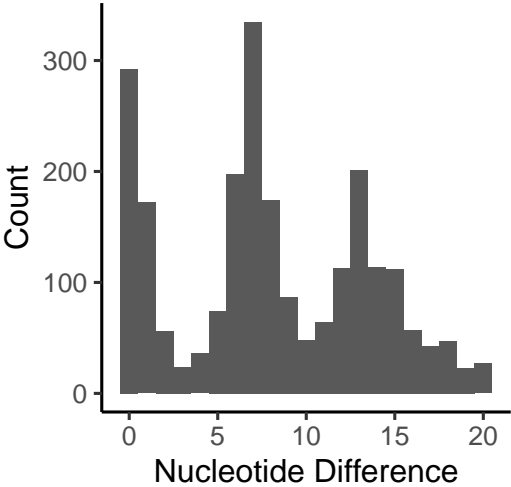
IGHV5-51*07

22 sequences assigned
11 (50%) exact matches, in which:
11 unique CDR3
3 unique J



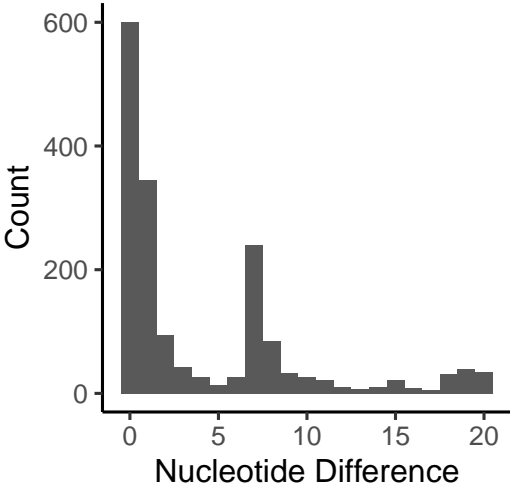
IGHV6-1*01_02

2485 sequences assigned
292 (11.8%) exact matches, in which:
266 unique CDR3
5 unique J



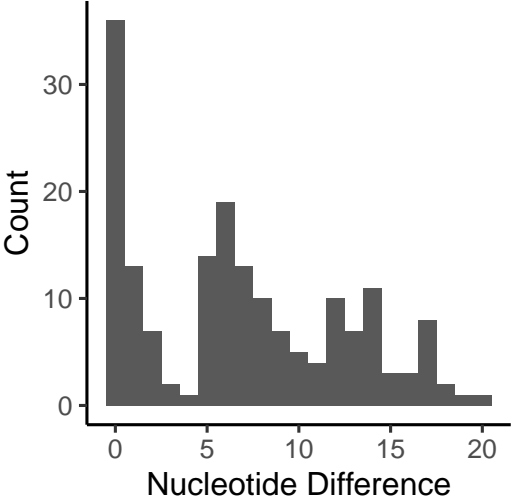
IGHV7-4-1*02

1827 sequences assigned
601 (32.9%) exact matches, in which:
559 unique CDR3
6 unique J



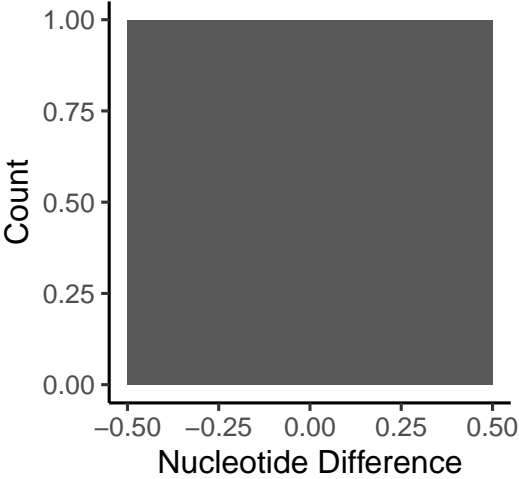
IGHV6-1*01_02_A315G

188 sequences assigned
36 (19.1%) exact matches, in which:
36 unique CDR3
5 unique J



IGHV3/OR16-13*01

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



IGHV6-1*01_02_A315G

