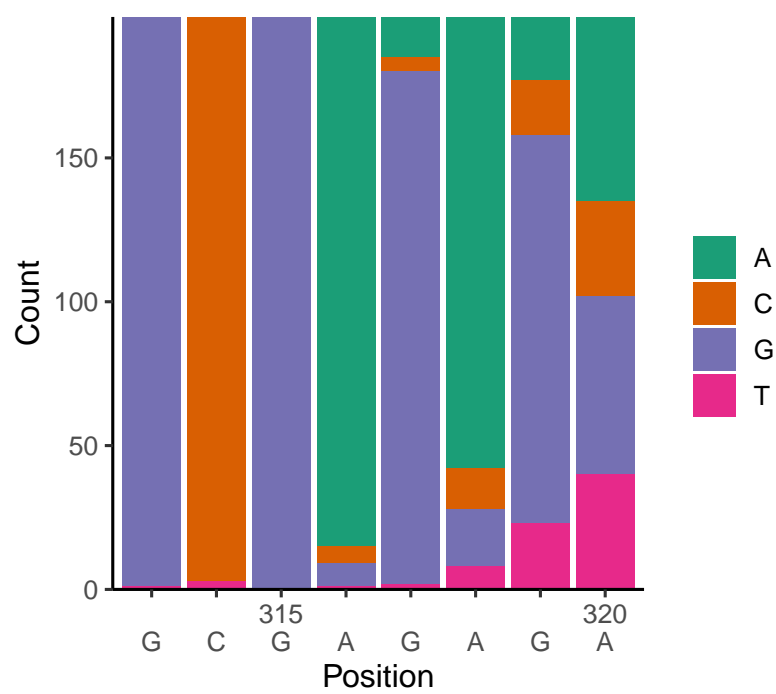
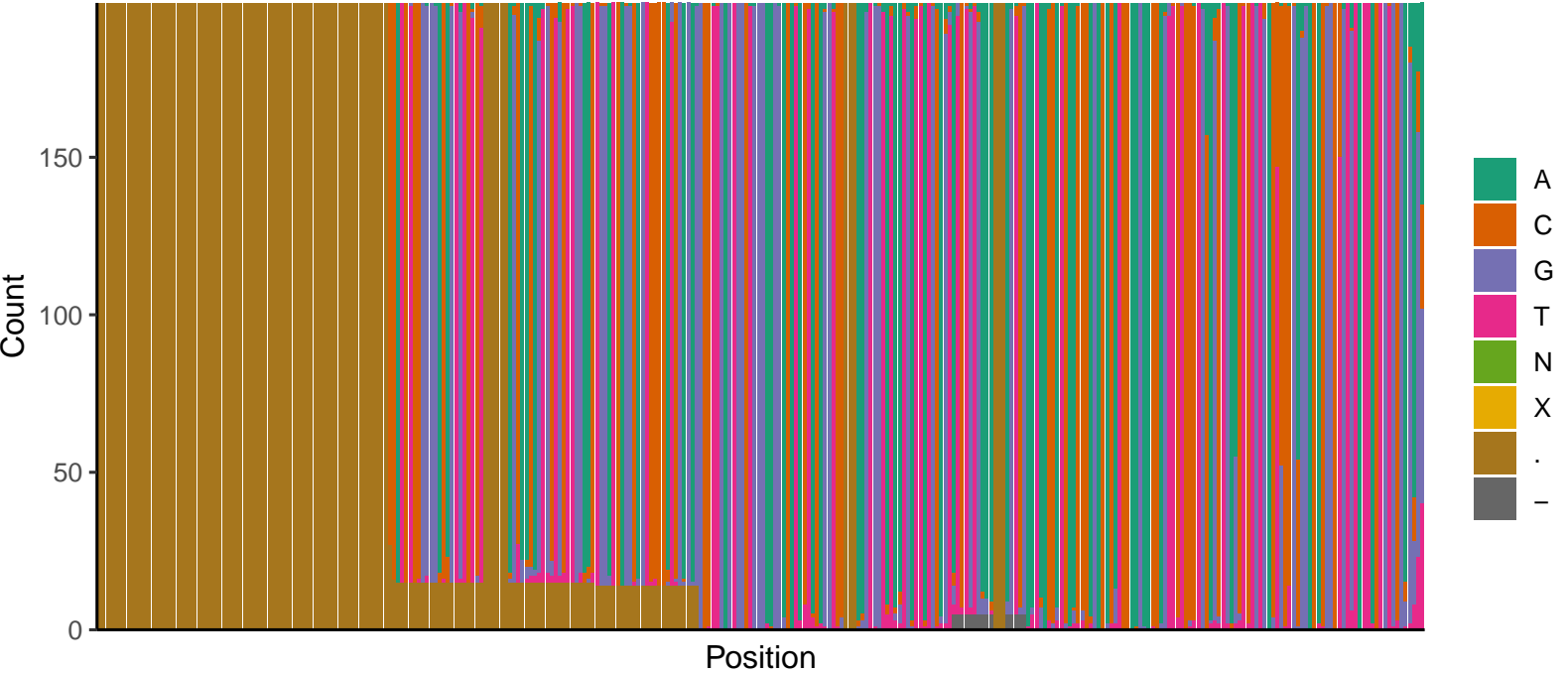


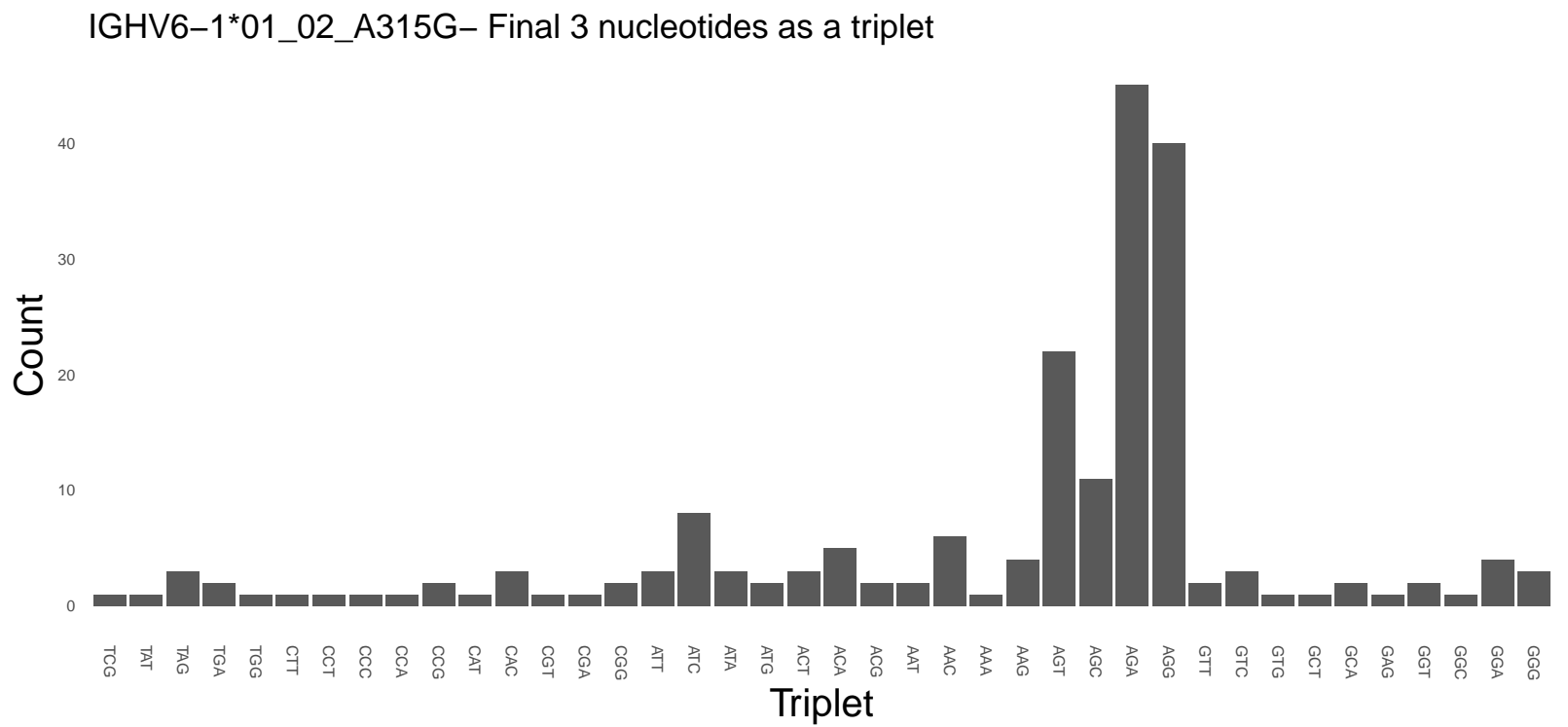
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

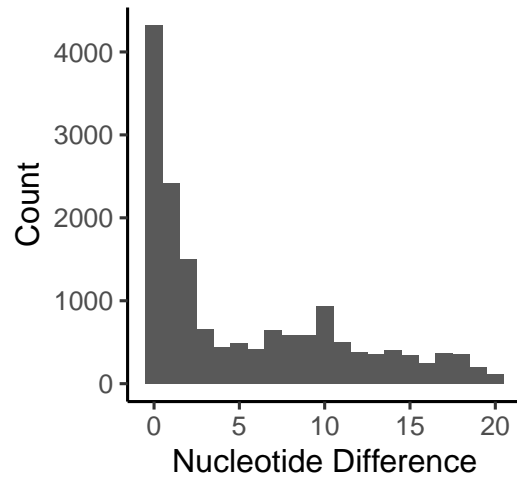


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



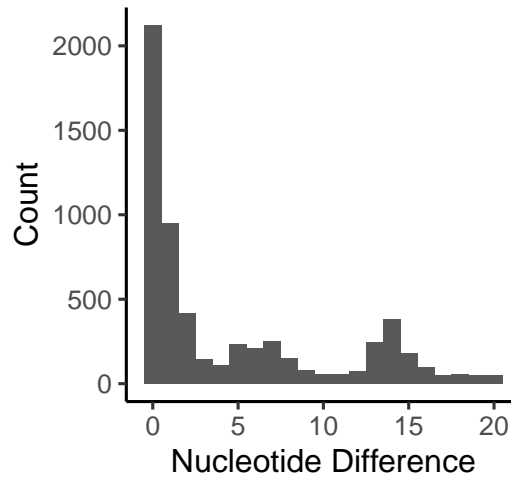
IGHV1-2*02

17190 sequences assigned
4320 (25.1%) exact matches, in which:
4001 unique CDR3
6 unique J



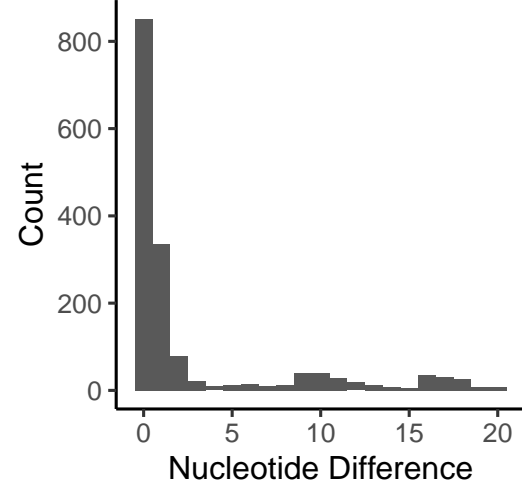
IGHV1-8*01

6102 sequences assigned
2121 (34.8%) exact matches, in which:
2001 unique CDR3
6 unique J



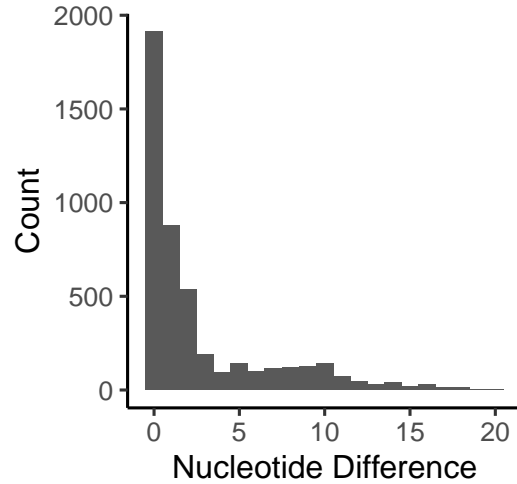
IGHV1-24*01

1625 sequences assigned
852 (52.4%) exact matches, in which:
792 unique CDR3
6 unique J



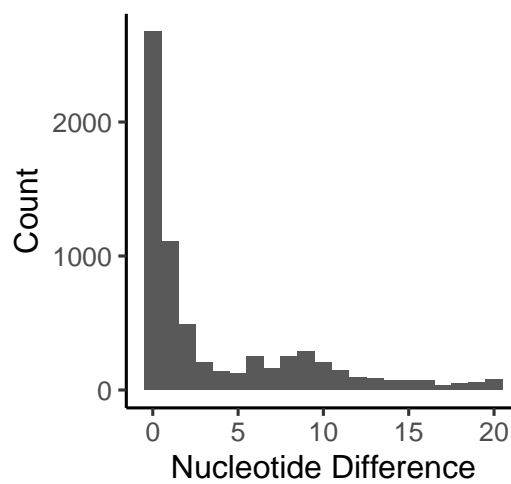
IGHV1-2*04

4782 sequences assigned
1912 (40%) exact matches, in which:
1819 unique CDR3
6 unique J



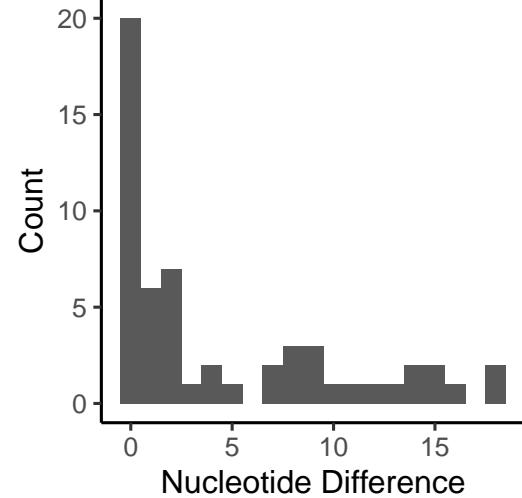
IGHV1-18*01

7485 sequences assigned
2674 (35.7%) exact matches, in which:
2567 unique CDR3
6 unique J



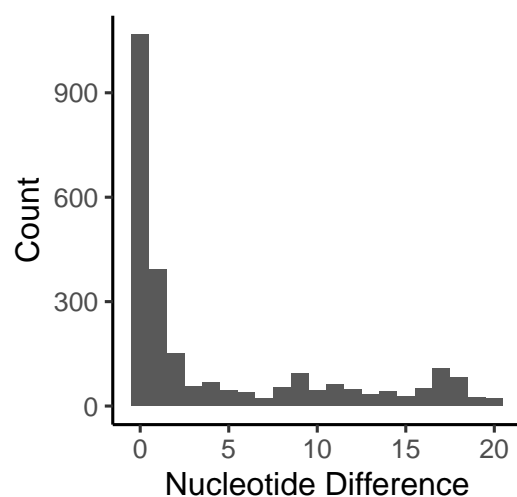
IGHV1-45*02

58 sequences assigned
20 (34.5%) exact matches, in which:
19 unique CDR3
4 unique J



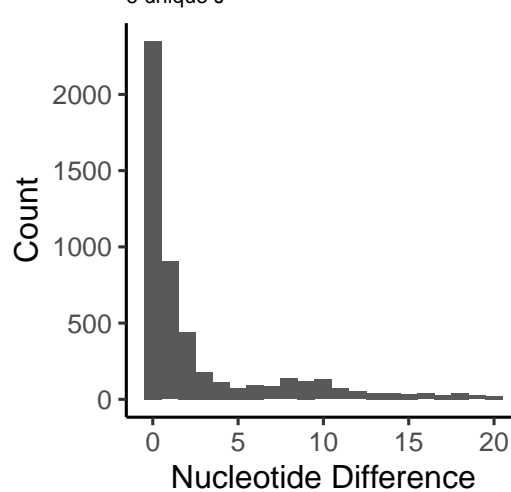
IGHV1-3*01_05

2773 sequences assigned
1068 (38.5%) exact matches, in which:
1003 unique CDR3
6 unique J



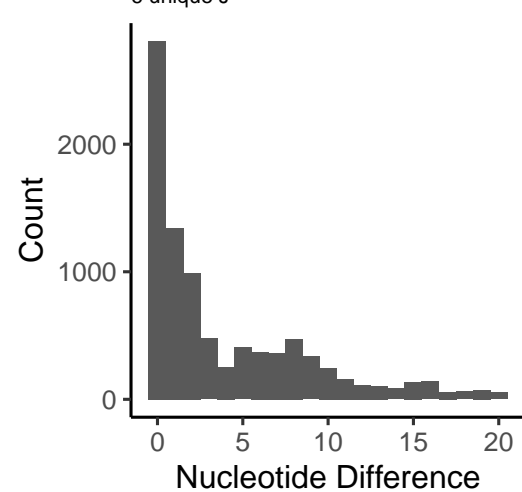
IGHV1-18*04

5279 sequences assigned
2350 (44.5%) exact matches, in which:
2240 unique CDR3
6 unique J



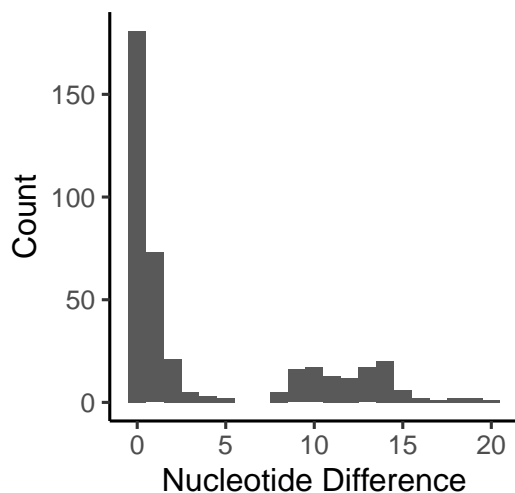
IGHV1-46*01

9784 sequences assigned
2809 (28.7%) exact matches, in which:
2684 unique CDR3
6 unique J



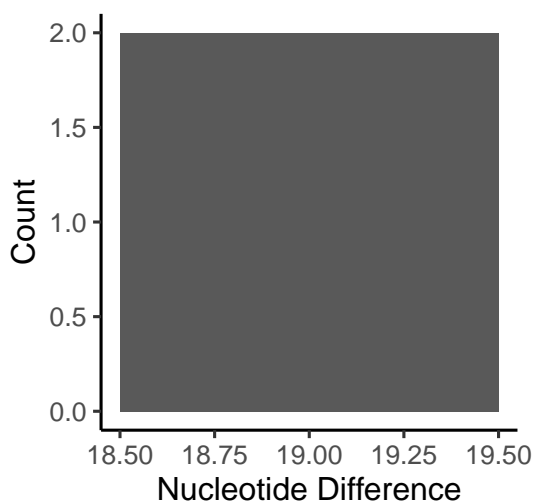
IGHV1-58*02

410 sequences assigned
181 (44.1%) exact matches, in which:
174 unique CDR3
6 unique J



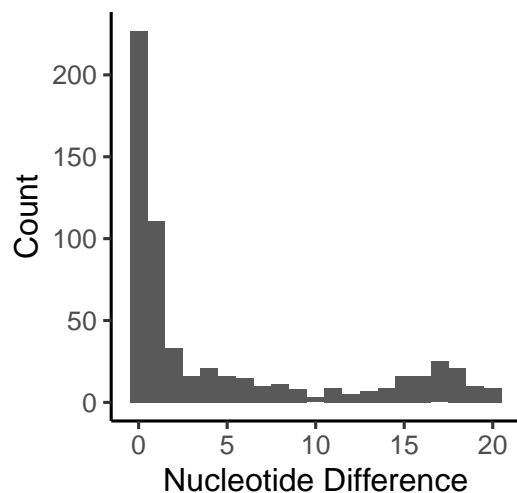
IGHV1-69-2*01

2 sequences assigned
No exact matches.



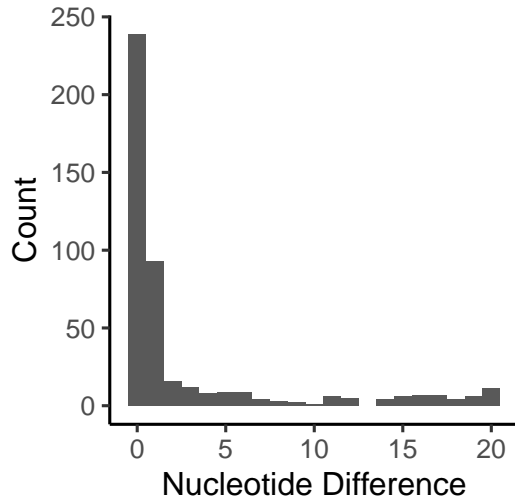
IGHV2-5*01

658 sequences assigned
227 (34.5%) exact matches, in which:
214 unique CDR3
6 unique J



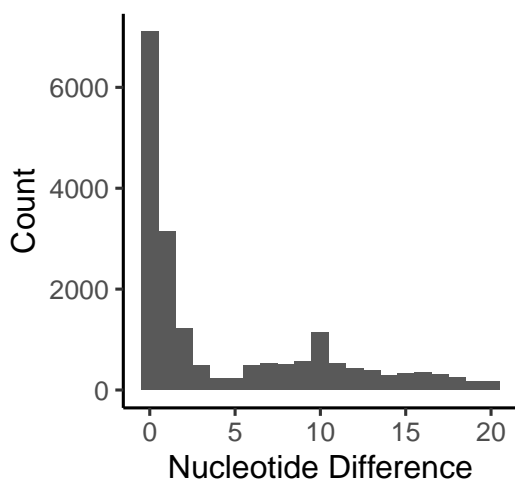
IGHV1-58*01_03

480 sequences assigned
239 (49.8%) exact matches, in which:
230 unique CDR3
5 unique J



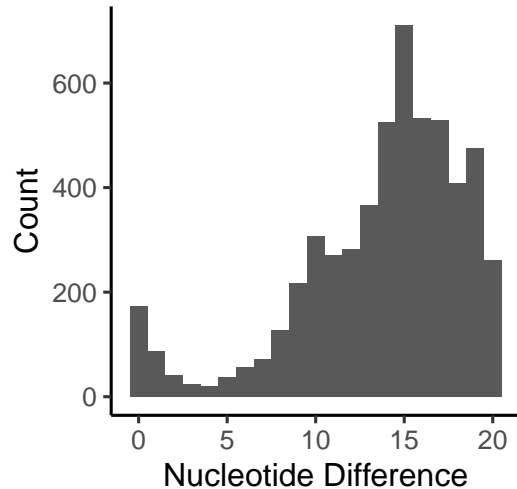
IGHV1-69*01_12_13

22021 sequences assigned
7103 (32.3%) exact matches, in which:
6725 unique CDR3
6 unique J



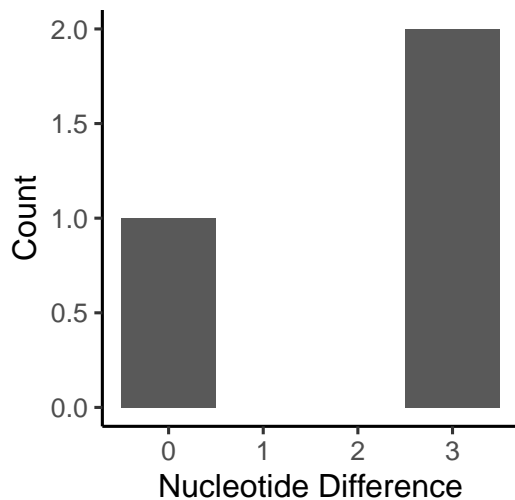
IGHV2-5*02

6758 sequences assigned
174 (2.6%) exact matches, in which:
164 unique CDR3
6 unique J



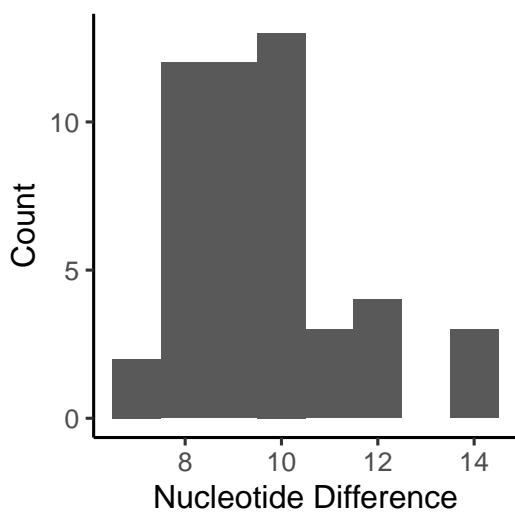
IGHV1-68*01

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



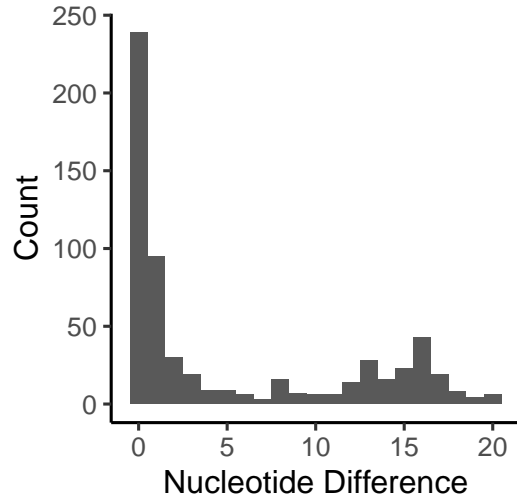
IGHV1-NL1*01

49 sequences assigned
No exact matches.



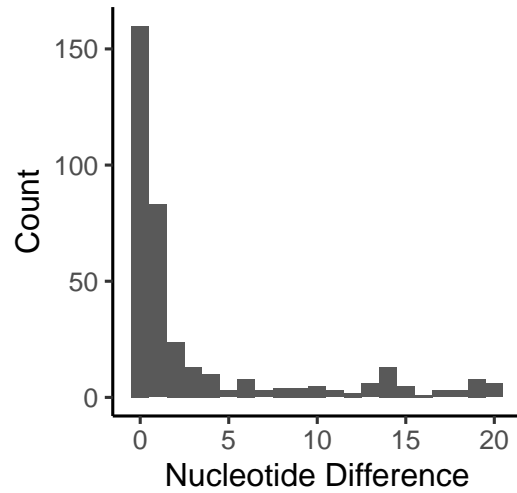
IGHV2-26*01

633 sequences assigned
239 (37.8%) exact matches, in which:
223 unique CDR3
5 unique J



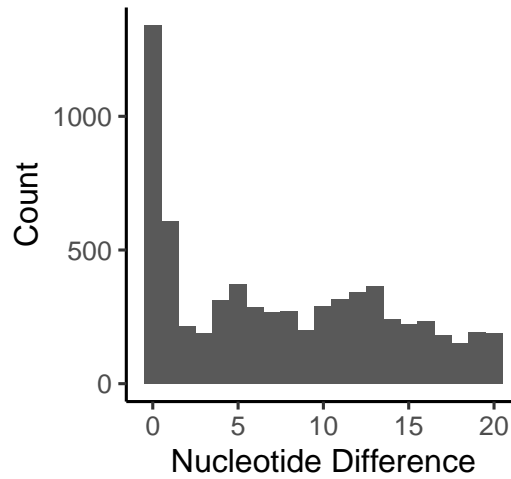
IGHV2-70*01

380 sequences assigned
160 (42.1%) exact matches, in which:
147 unique CDR3
5 unique J



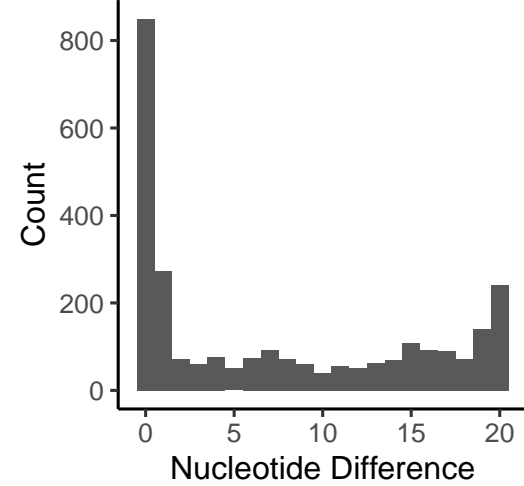
IGHV3-7*01

7855 sequences assigned
1340 (17.1%) exact matches, in which:
1165 unique CDR3
6 unique J



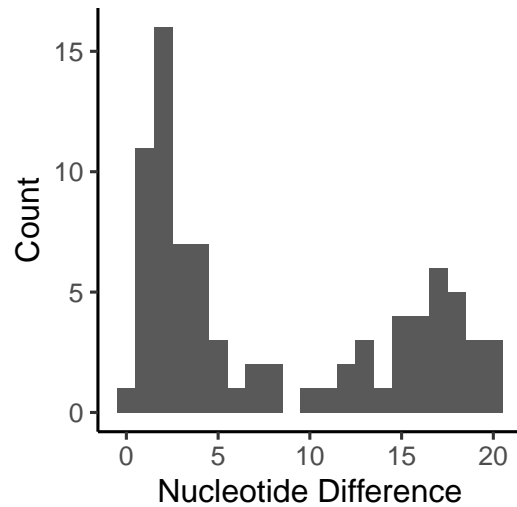
IGHV3-11*01

3862 sequences assigned
850 (22%) exact matches, in which:
726 unique CDR3
6 unique J



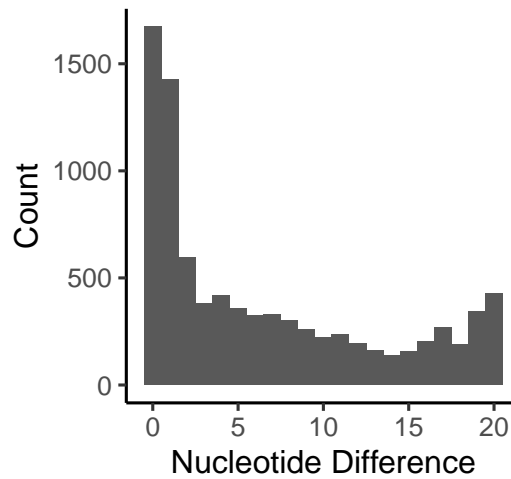
IGHV2-70*12

91 sequences assigned
1 (1.1%) exact matches, in which:
1 unique CDR3
1 unique J



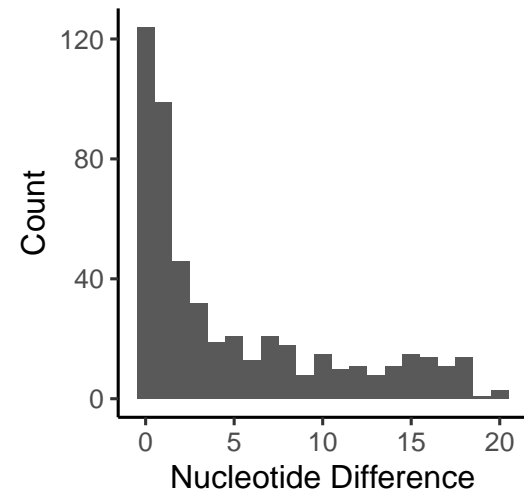
IGHV3-7*03

11266 sequences assigned
1673 (14.8%) exact matches, in which:
1219 unique CDR3
6 unique J



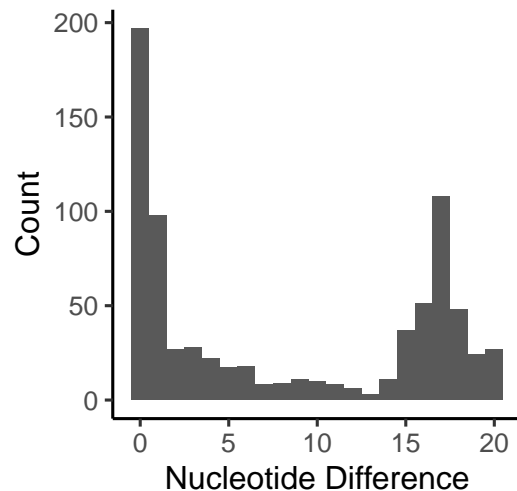
IGHV3-11*04

538 sequences assigned
124 (23%) exact matches, in which:
124 unique CDR3
4 unique J



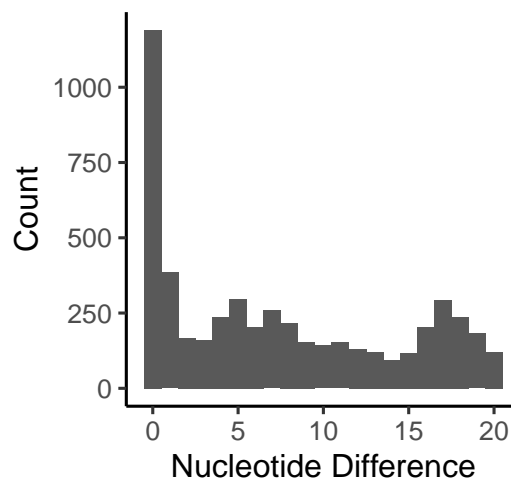
IGHV2-70*11_15

813 sequences assigned
197 (24.2%) exact matches, in which:
192 unique CDR3
6 unique J



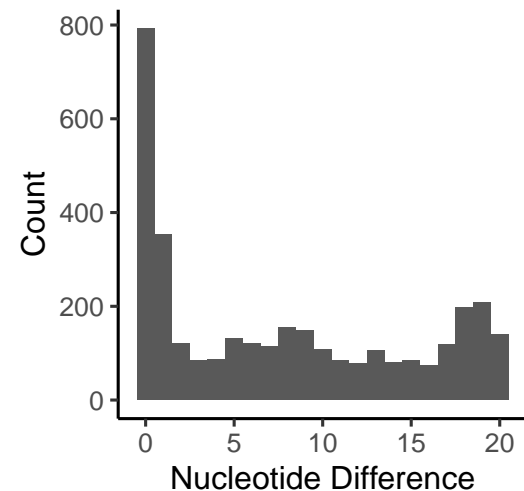
IGHV3-9*01

6047 sequences assigned
1190 (19.7%) exact matches, in which:
974 unique CDR3
6 unique J



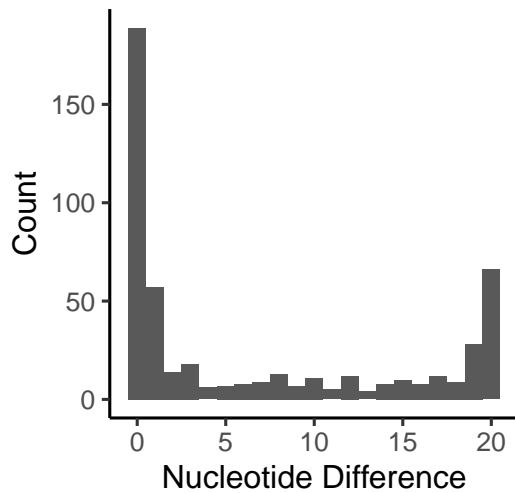
IGHV3-11*06

4318 sequences assigned
793 (18.4%) exact matches, in which:
677 unique CDR3
6 unique J



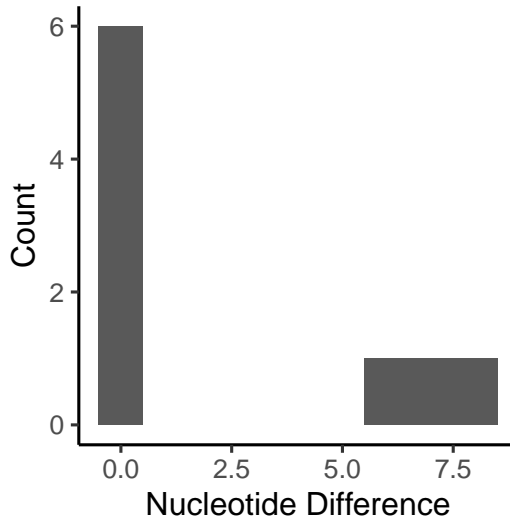
IGHV3-13*01

716 sequences assigned
189 (26.4%) exact matches, in which:
152 unique CDR3
5 unique J



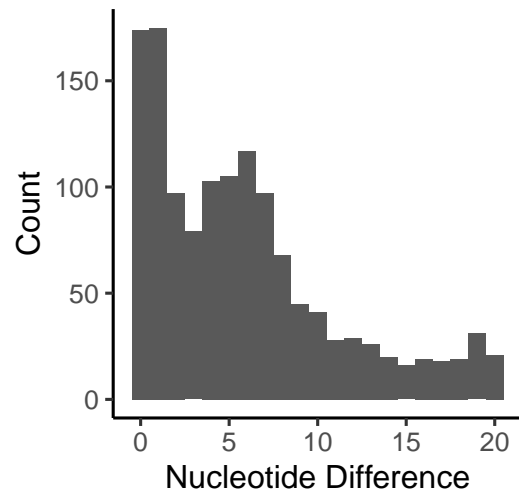
IGHV3-19*01

9 sequences assigned
6 (66.7%) exact matches, in which:
4 unique CDR3
2 unique J



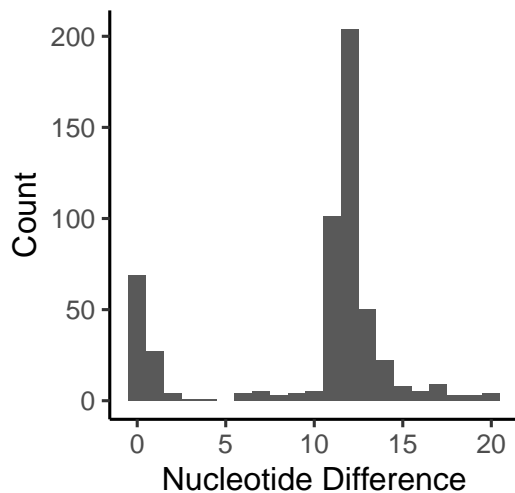
IGHV3-21*04

1530 sequences assigned
174 (11.4%) exact matches, in which:
171 unique CDR3
6 unique J



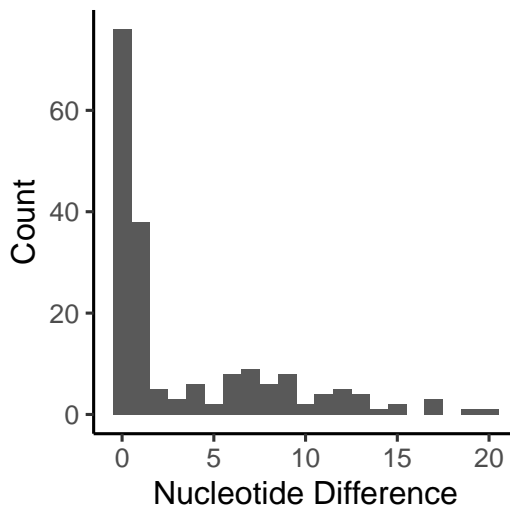
IGHV3-13*05

537 sequences assigned
69 (12.8%) exact matches, in which:
52 unique CDR3
5 unique J



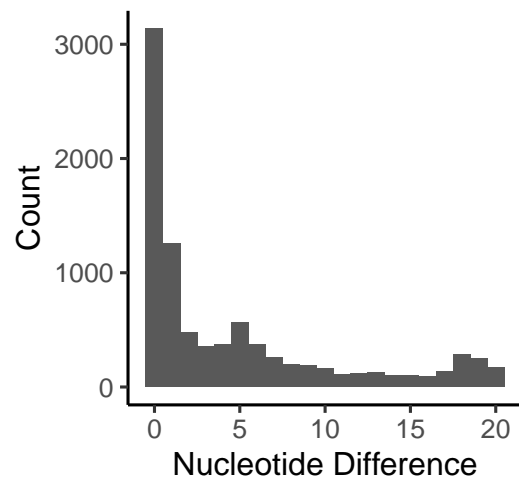
IGHV3-20*01_02

186 sequences assigned
76 (40.9%) exact matches, in which:
60 unique CDR3
4 unique J



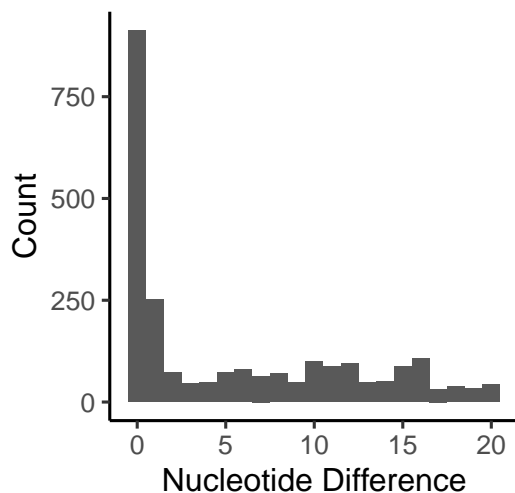
IGHV3-21*01_02

9960 sequences assigned
3136 (31.5%) exact matches, in which:
2573 unique CDR3
6 unique J



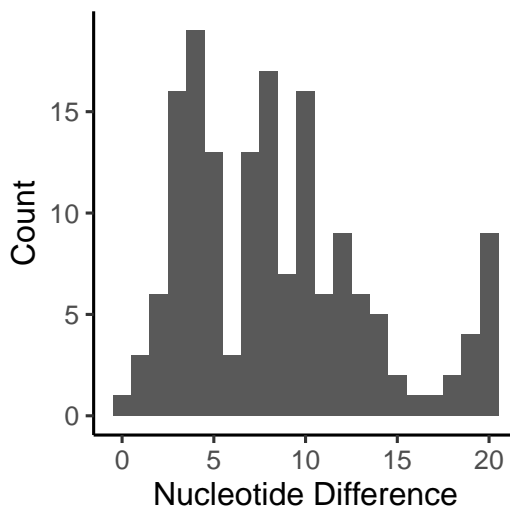
IGHV3-15*01_02

2970 sequences assigned
913 (30.7%) exact matches, in which:
735 unique CDR3
6 unique J



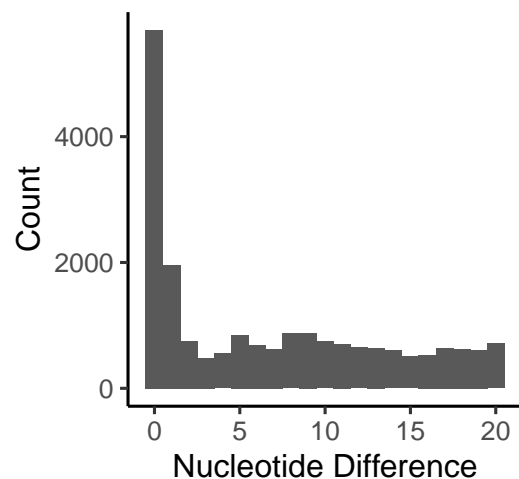
IGHV3-20*03_04

180 sequences assigned
1 (0.6%) exact matches, in which:
1 unique CDR3
1 unique J



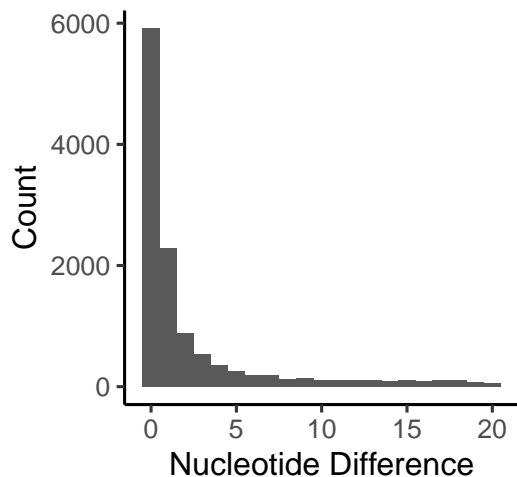
IGHV3-23*01_04

27056 sequences assigned
5694 (21%) exact matches, in which:
4443 unique CDR3
6 unique J



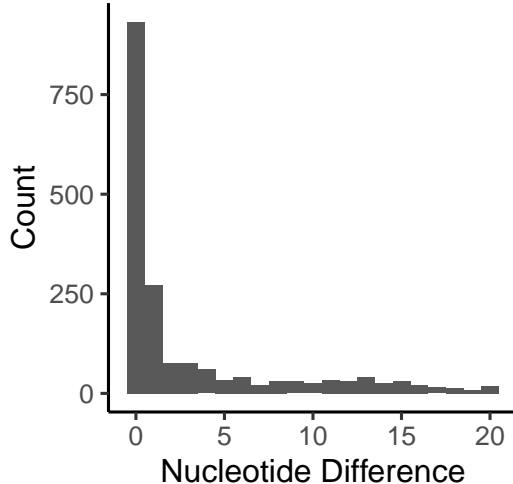
IGHV3-30-3*01

15406 sequences assigned
5914 (38.4%) exact matches, in which:
4787 unique CDR3
6 unique J



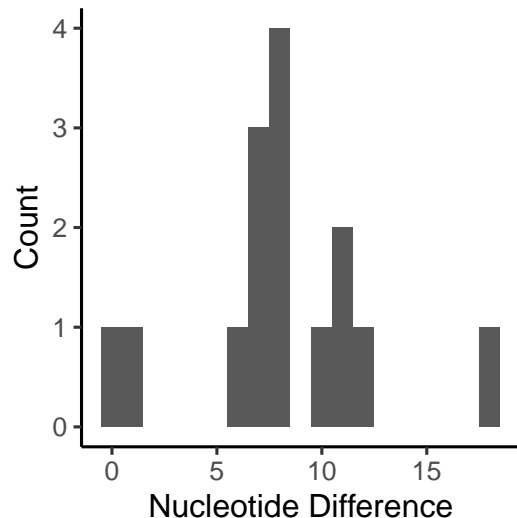
IGHV3-33*01

2076 sequences assigned
933 (44.9%) exact matches, in which:
806 unique CDR3
6 unique J



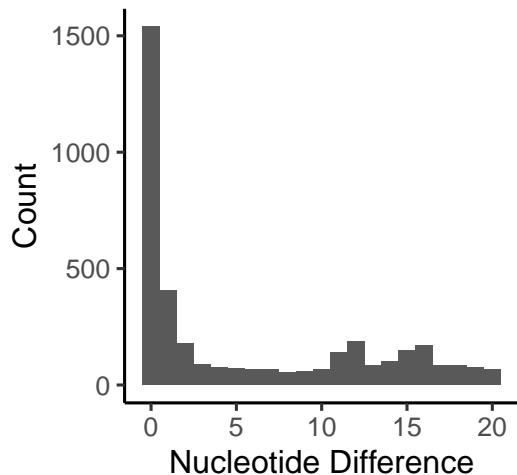
IGHV3-35*01

15 sequences assigned
1 (6.7%) exact matches, in which:
1 unique CDR3
1 unique J



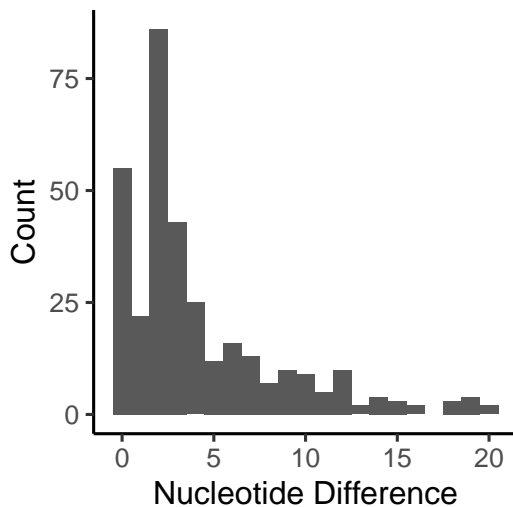
IGHV3-30*03

4422 sequences assigned
1539 (34.8%) exact matches, in which:
1459 unique CDR3
6 unique J



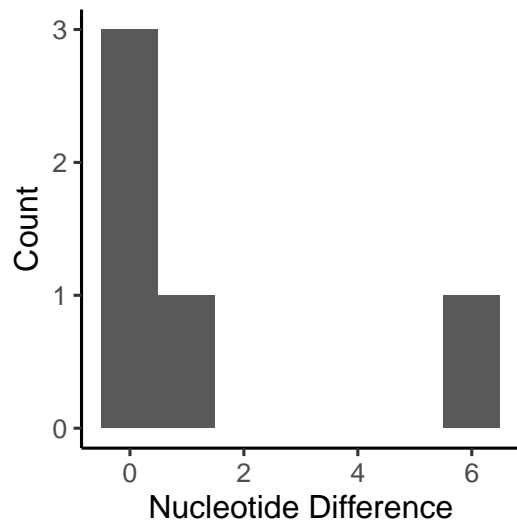
IGHV3-33*06

372 sequences assigned
55 (14.8%) exact matches, in which:
54 unique CDR3
4 unique J



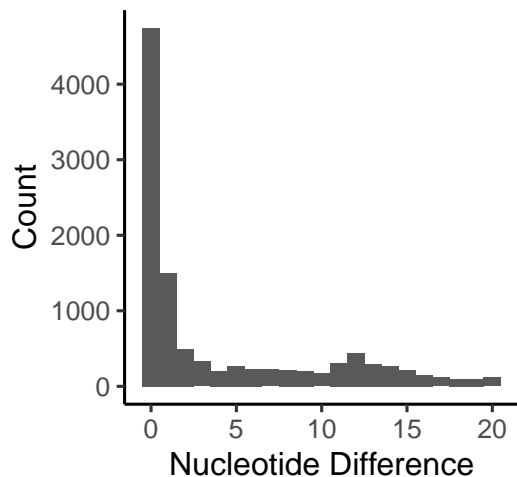
IGHV3-35*02

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



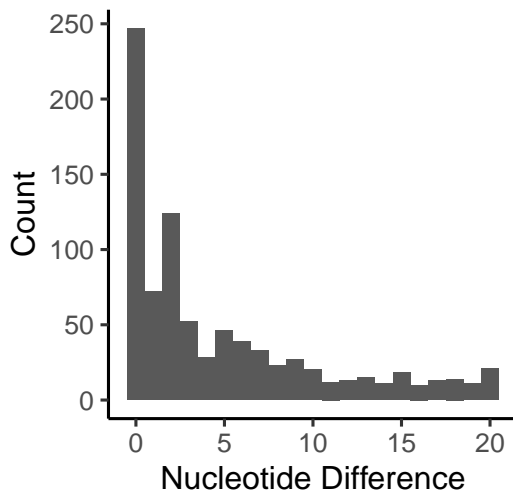
IGHV3-30*18

12395 sequences assigned
4743 (38.3%) exact matches, in which:
3785 unique CDR3
6 unique J



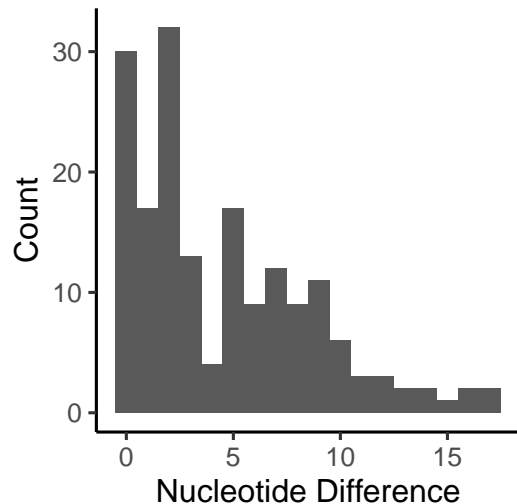
IGHV3-33*08

916 sequences assigned
247 (27%) exact matches, in which:
235 unique CDR3
6 unique J



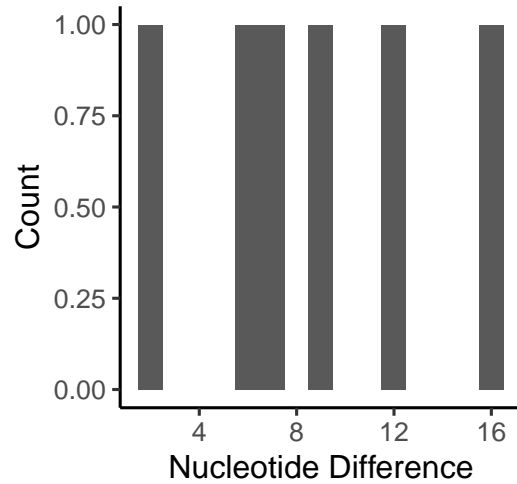
IGHV3-38-3*01

175 sequences assigned
30 (17.1%) exact matches, in which:
30 unique CDR3
3 unique J



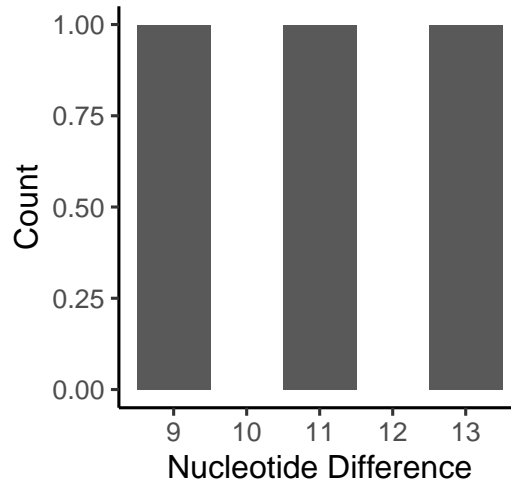
IGHV3-38*02

6 sequences assigned
No exact matches.



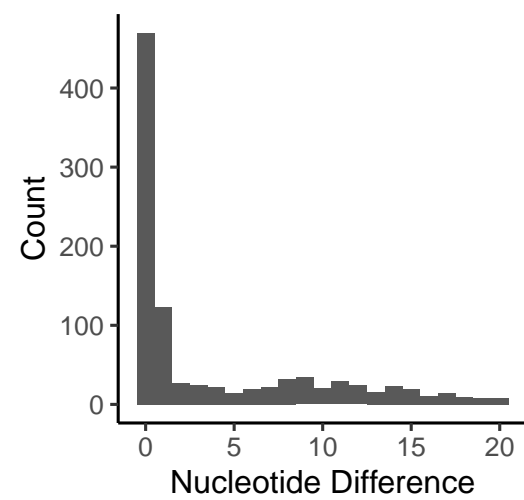
IGHV3-47*02

3 sequences assigned
No exact matches.



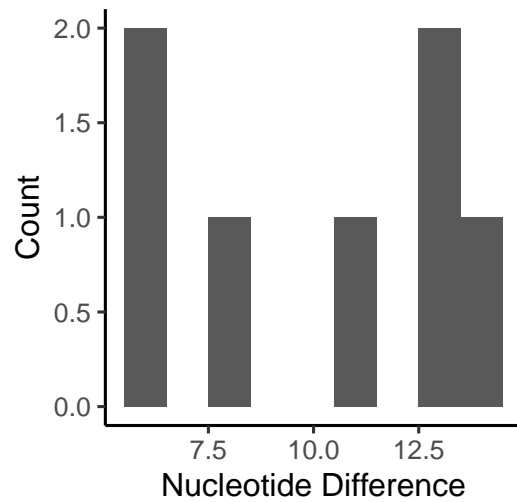
IGHV3-49*03_05

1076 sequences assigned
470 (43.7%) exact matches, in which:
395 unique CDR3
6 unique J



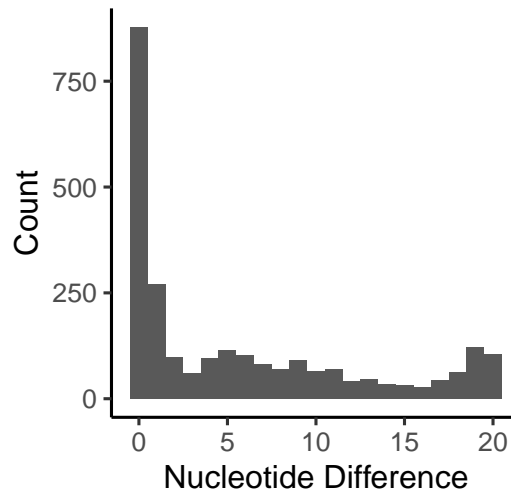
IGHV3-38*03

7 sequences assigned
No exact matches.



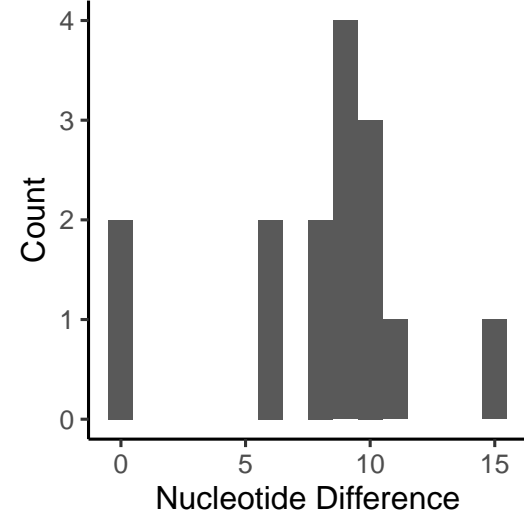
IGHV3-48*02

2824 sequences assigned
878 (31.1%) exact matches, in which:
727 unique CDR3
6 unique J



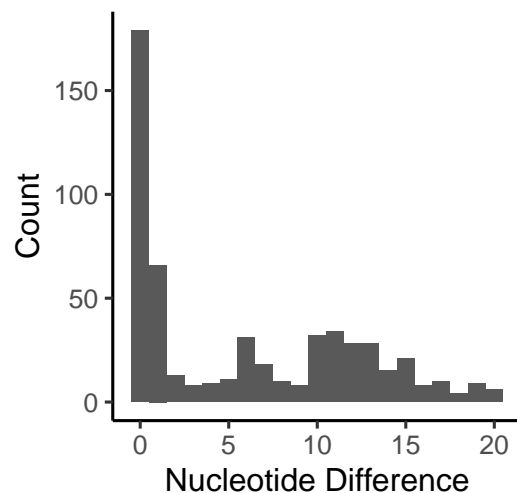
IGHV3-52*01_03

15 sequences assigned
2 (13.3%) exact matches, in which:
2 unique CDR3
1 unique J



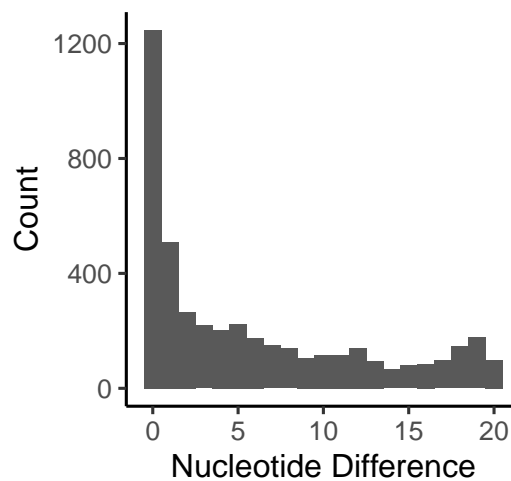
IGHV3-43*01

580 sequences assigned
179 (30.9%) exact matches, in which:
151 unique CDR3
5 unique J



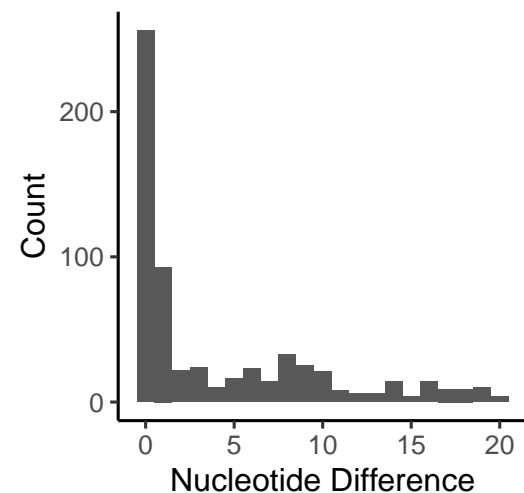
IGHV3-48*04

5598 sequences assigned
1247 (22.3%) exact matches, in which:
1051 unique CDR3
6 unique J



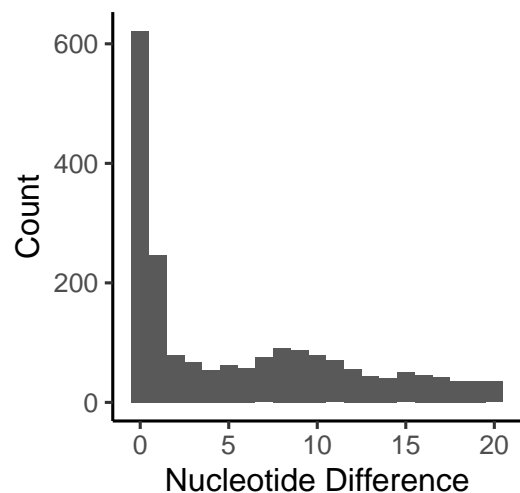
IGHV3-53*04

642 sequences assigned
256 (39.9%) exact matches, in which:
222 unique CDR3
6 unique J



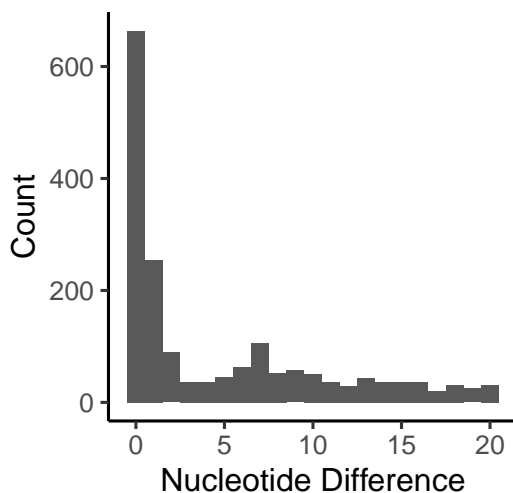
IGHV3-53*01_02

2484 sequences assigned
622 (25%) exact matches, in which:
531 unique CDR3
6 unique J



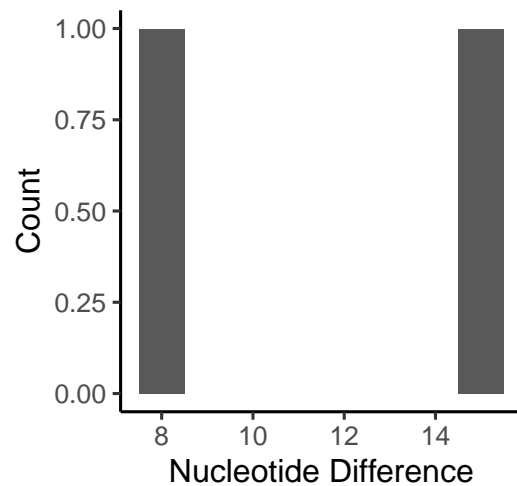
IGHV3-66*01

2450 sequences assigned
664 (27.1%) exact matches, in which:
556 unique CDR3
6 unique J



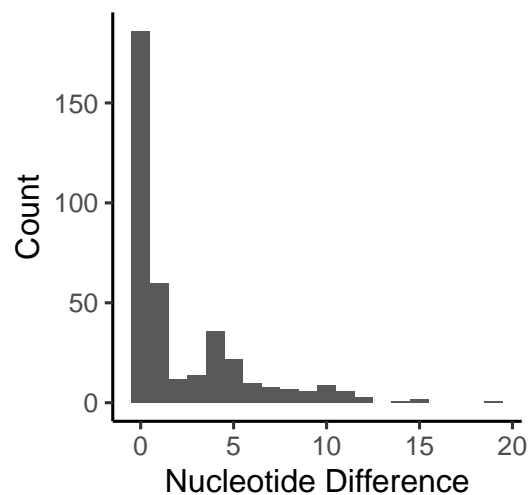
IGHV3-71*03

3 sequences assigned
No exact matches.



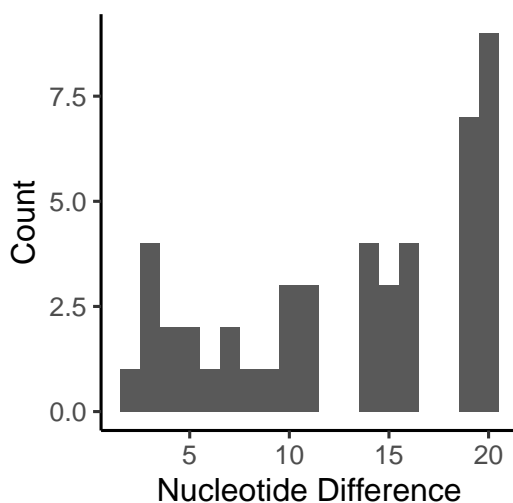
IGHV3-64*01

396 sequences assigned
186 (47%) exact matches, in which:
154 unique CDR3
6 unique J



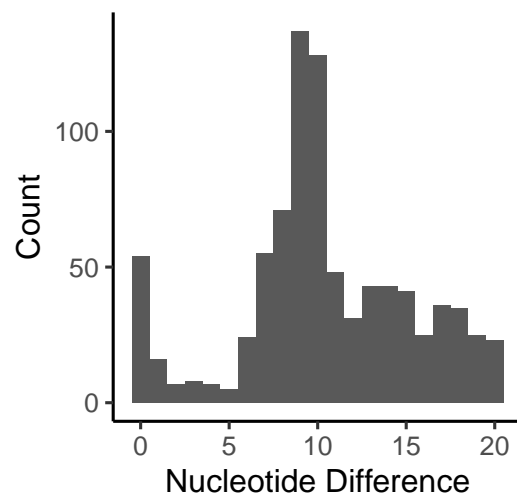
IGHV3-69-1*01

95 sequences assigned
No exact matches.



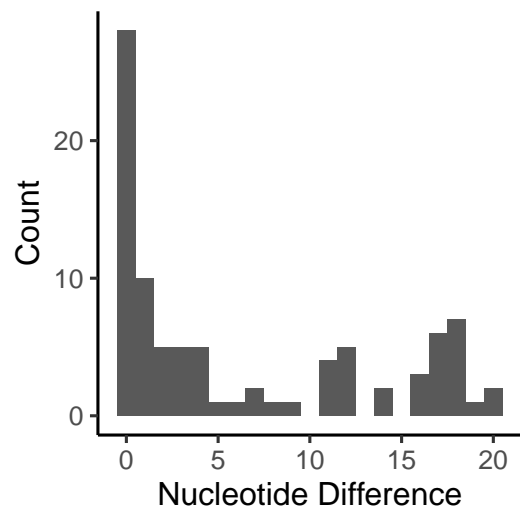
IGHV3-72*01

979 sequences assigned
54 (5.5%) exact matches, in which:
43 unique CDR3
5 unique J



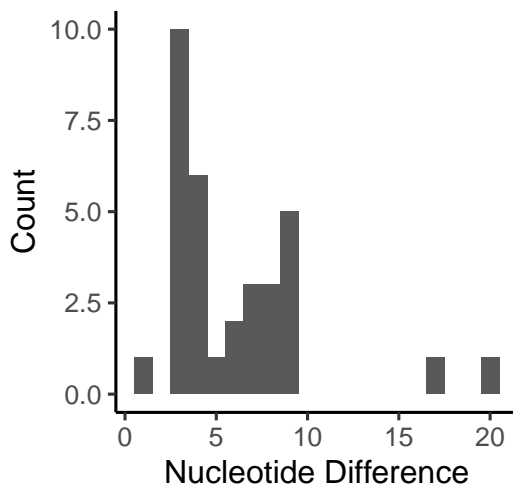
IGHV3-64*02_07

94 sequences assigned
28 (29.8%) exact matches, in which:
21 unique CDR3
4 unique J



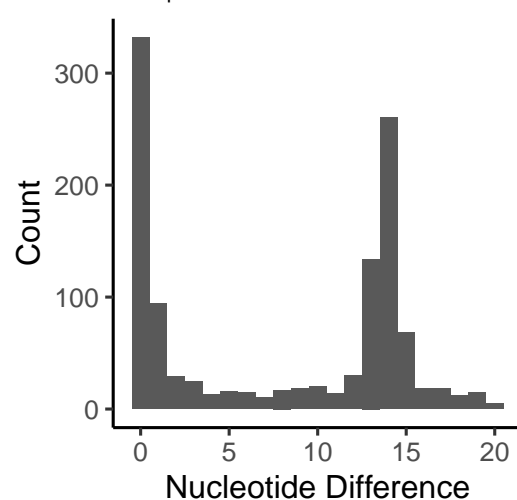
IGHV3-69-1*02

59 sequences assigned
No exact matches.



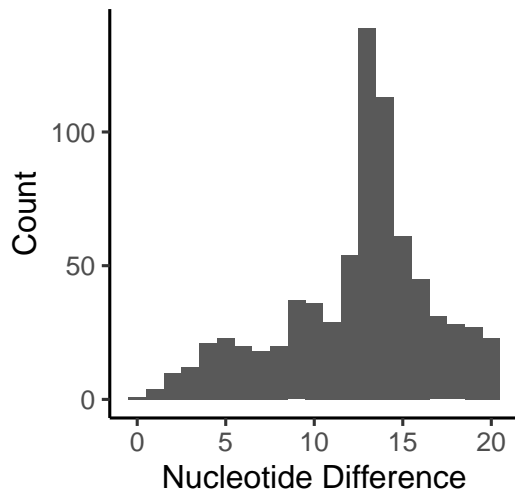
IGHV3-73*01_02

1202 sequences assigned
332 (27.6%) exact matches, in which:
284 unique CDR3
5 unique J



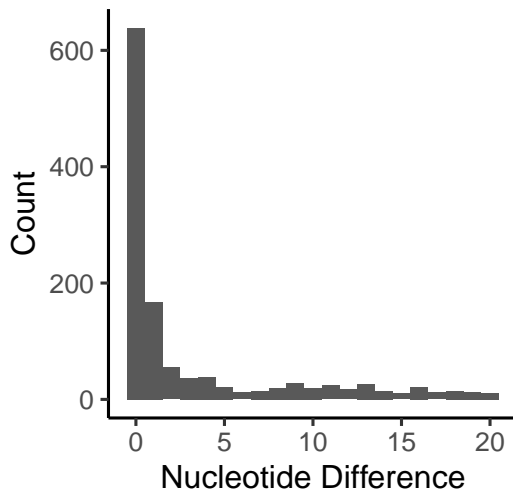
IGHV3-74*03

1098 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



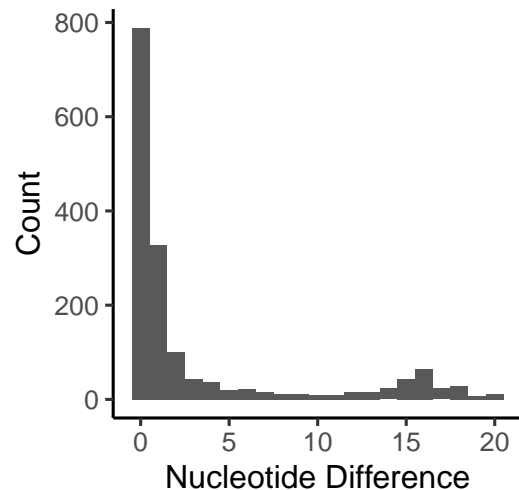
IGHV3-64D*06

1275 sequences assigned
639 (50.1%) exact matches, in which:
459 unique CDR3
6 unique J



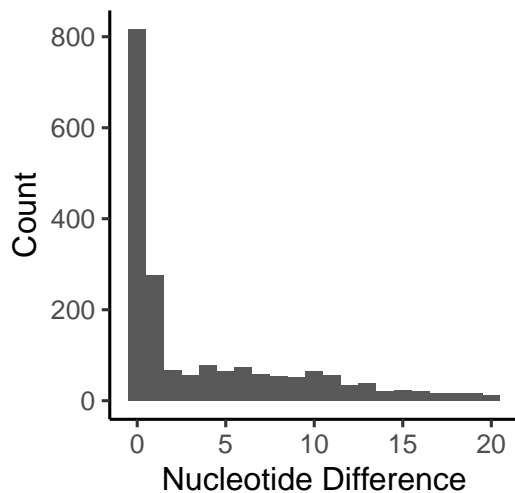
IGHV4-4*02_03

2243 sequences assigned
789 (35.2%) exact matches, in which:
724 unique CDR3
6 unique J



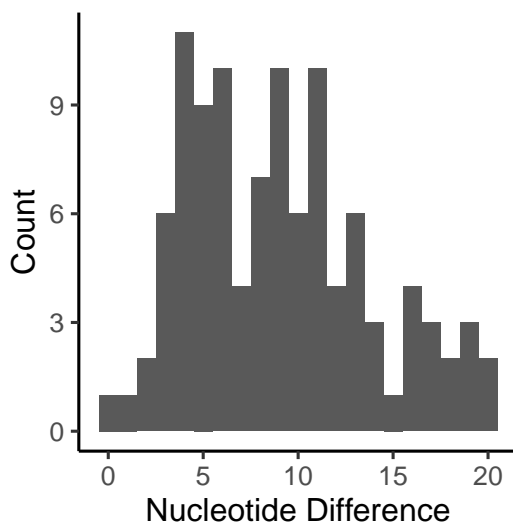
IGHV3-74*01_02

1976 sequences assigned
817 (41.3%) exact matches, in which:
628 unique CDR3
6 unique J



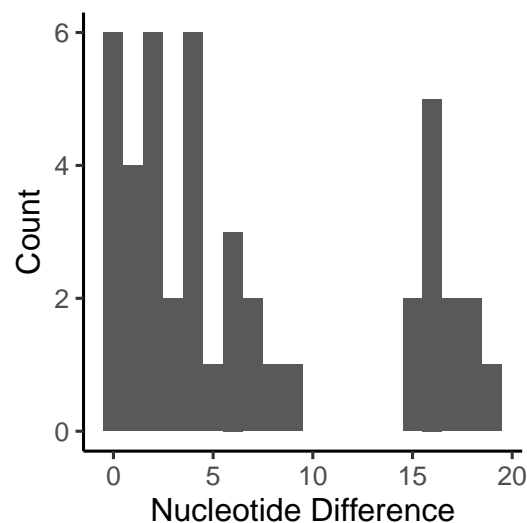
IGHV3-NL1*01

132 sequences assigned
1 (0.8%) exact matches, in which:
1 unique CDR3
1 unique J



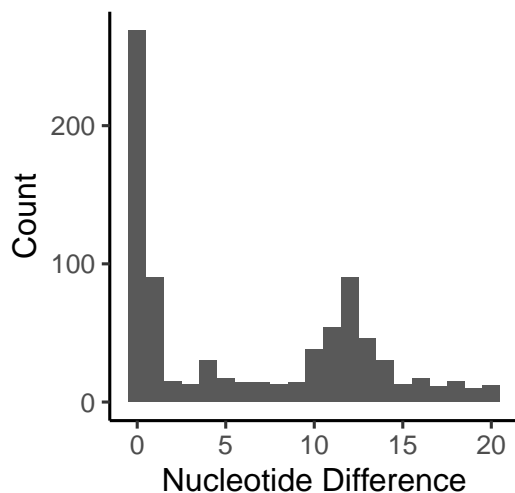
IGHV4-28*03

59 sequences assigned
6 (10.2%) exact matches, in which:
5 unique CDR3
3 unique J



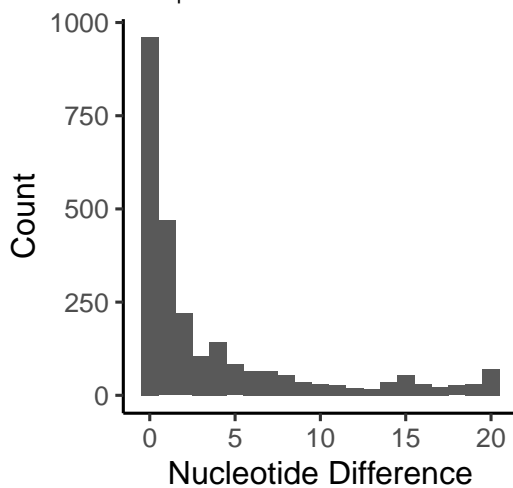
IGHV3-43D*03

880 sequences assigned
269 (30.6%) exact matches, in which:
217 unique CDR3
6 unique J



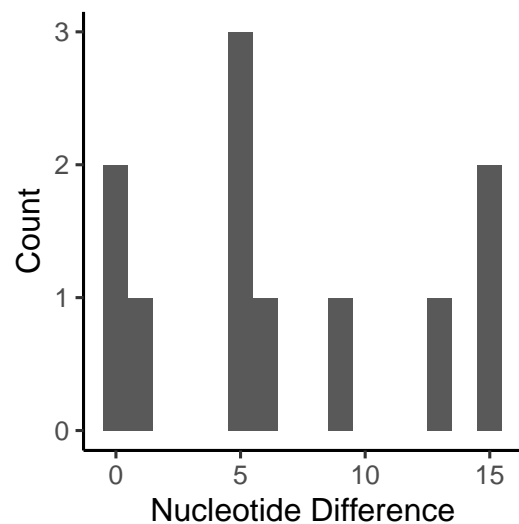
IGHV4-4*07

3321 sequences assigned
961 (28.9%) exact matches, in which:
924 unique CDR3
6 unique J



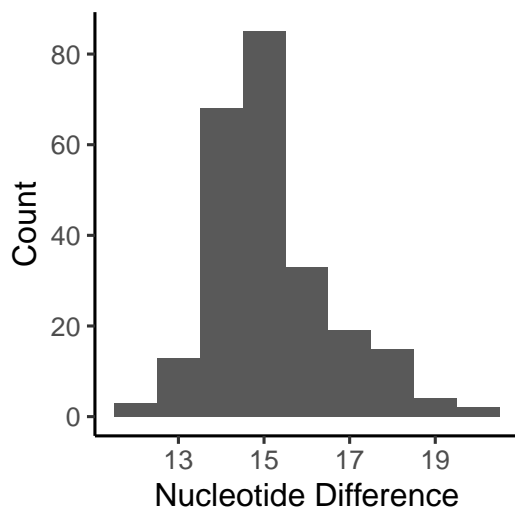
IGHV4-28*01_07

12 sequences assigned
2 (16.7%) exact matches, in which:
2 unique CDR3
2 unique J



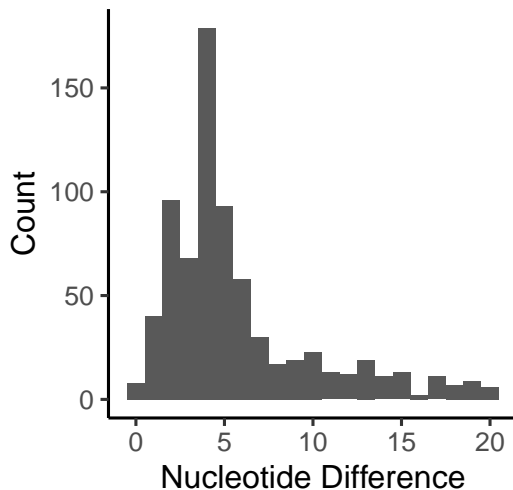
IGHV4-28*02_05

261 sequences assigned
No exact matches.



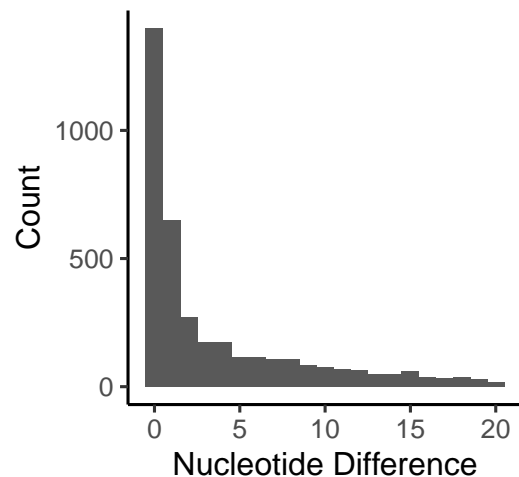
IGHV4-30-4*08

770 sequences assigned
8 (1%) exact matches, in which:
8 unique CDR3
4 unique J



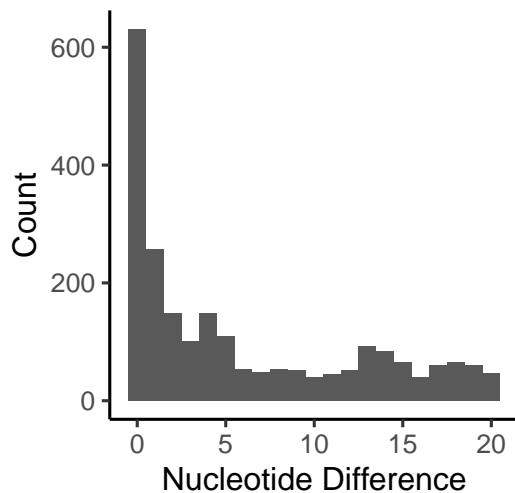
IGHV4-38-2*02

3964 sequences assigned
1398 (35.3%) exact matches, in which:
1350 unique CDR3
6 unique J



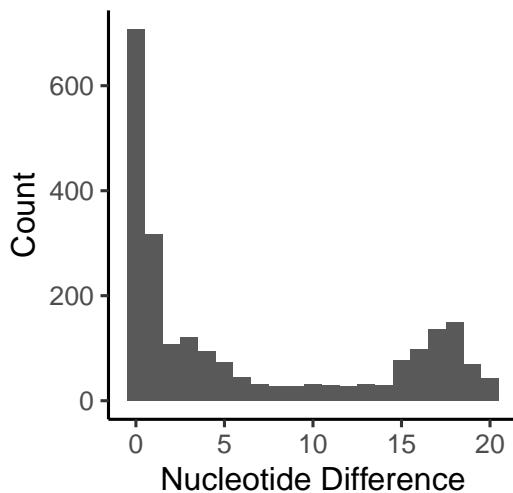
IGHV4-30-2*01

2365 sequences assigned
631 (26.7%) exact matches, in which:
553 unique CDR3
6 unique J



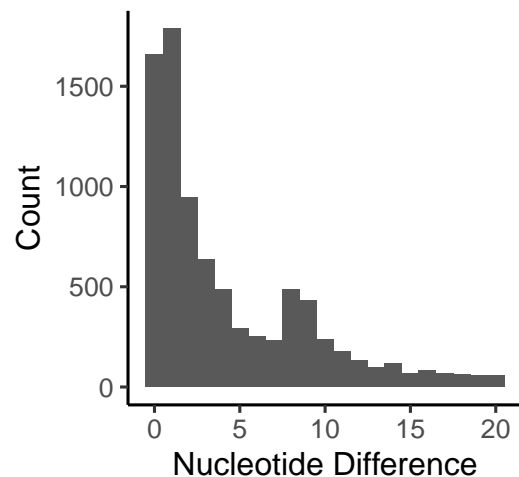
IGHV4-31*02

3508 sequences assigned
708 (20.2%) exact matches, in which:
677 unique CDR3
6 unique J



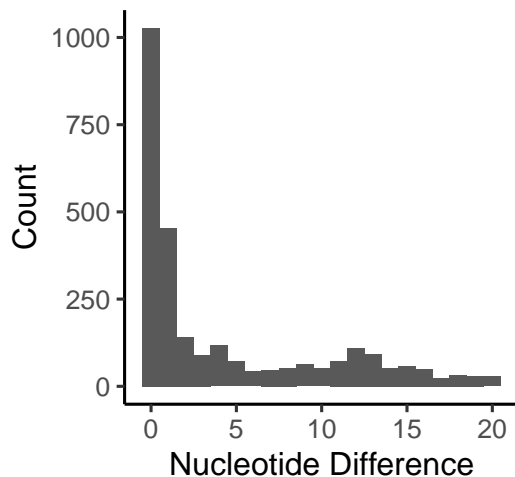
IGHV4-39*07

9424 sequences assigned
1660 (17.6%) exact matches, in which:
1564 unique CDR3
6 unique J



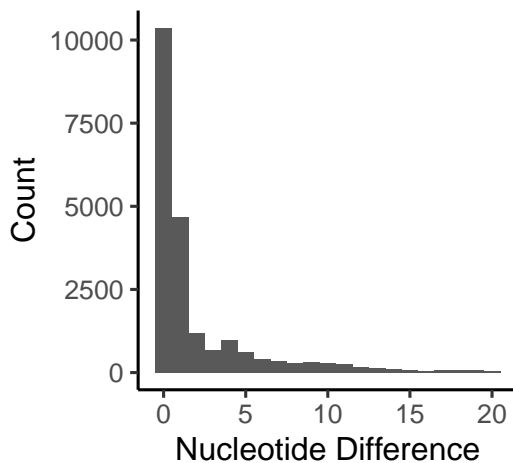
IGHV4-30-4*01

2855 sequences assigned
1027 (36%) exact matches, in which:
976 unique CDR3
6 unique J



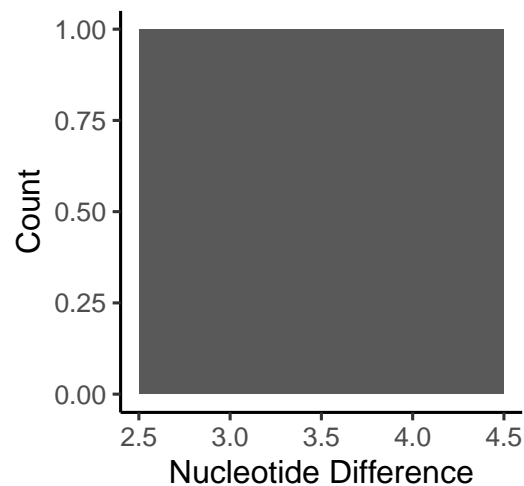
IGHV4-34*01_02

22550 sequences assigned
10368 (46%) exact matches, in which:
9233 unique CDR3
6 unique J



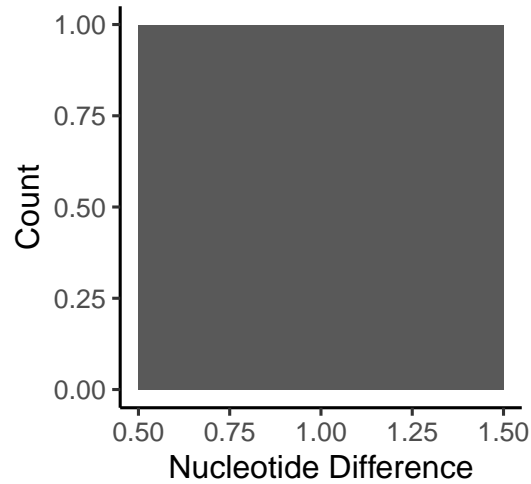
IGHV4-55*09

5 sequences assigned
No exact matches.



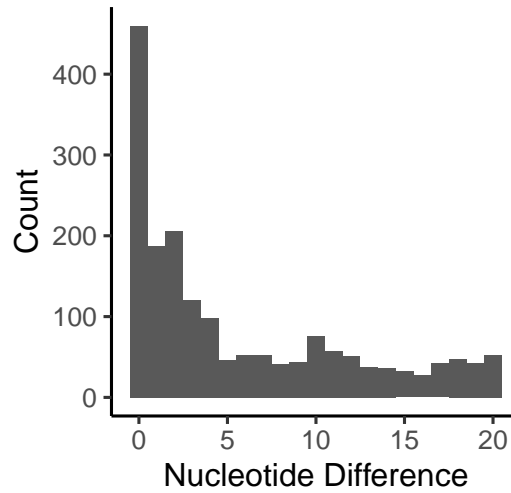
IGHV4-55*02_04_08

1 sequences assigned
No exact matches.



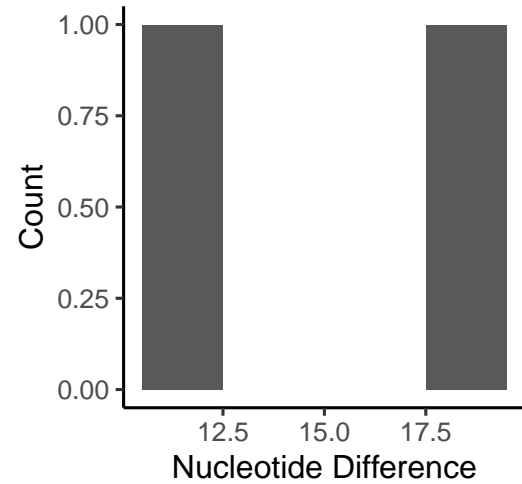
IGHV4-61*01

2021 sequences assigned
460 (22.8%) exact matches, in which:
446 unique CDR3
6 unique J



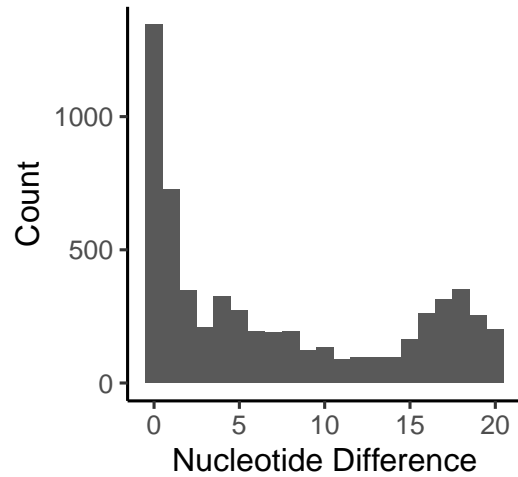
IGHV1/OR15-2*02_03

4 sequences assigned
No exact matches.



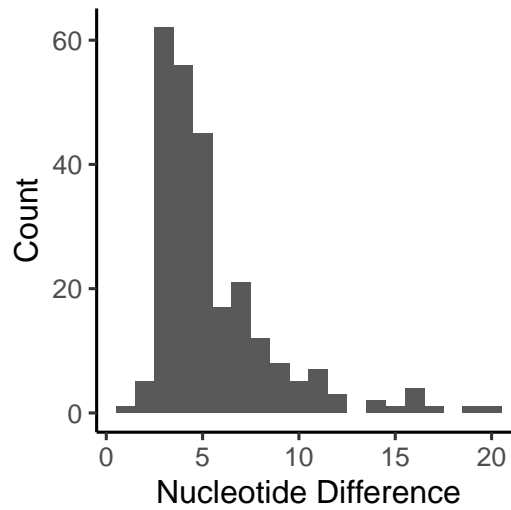
IGHV4-59*08

6740 sequences assigned
1345 (20%) exact matches, in which:
1274 unique CDR3
6 unique J



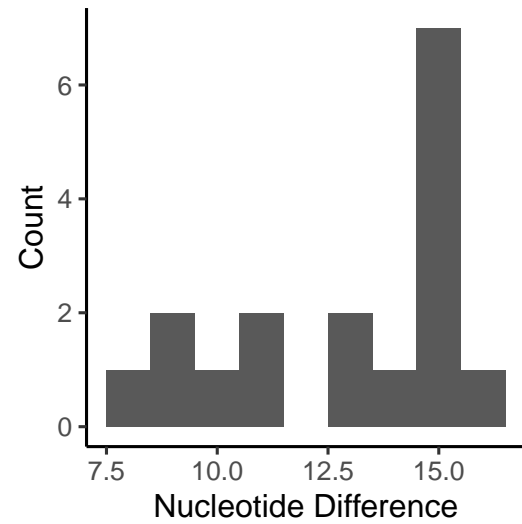
IGHV4-61*02

264 sequences assigned
No exact matches.



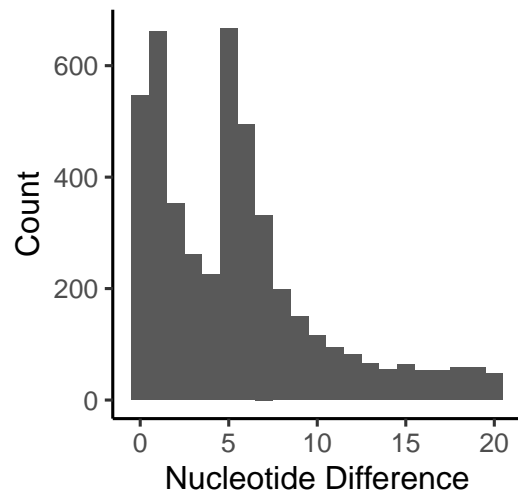
IGHV1/OR15-3*02

18 sequences assigned
No exact matches.



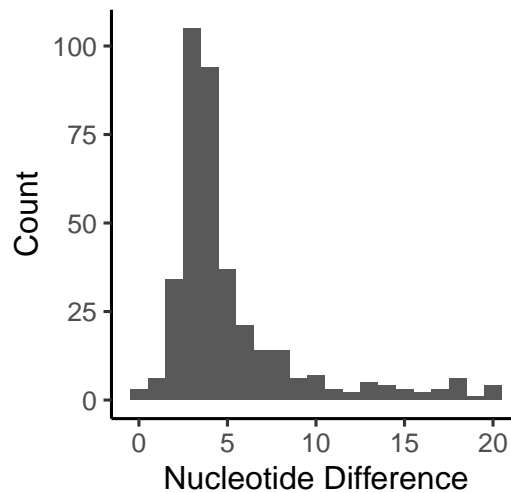
IGHV4-59*12

4984 sequences assigned
546 (11%) exact matches, in which:
539 unique CDR3
6 unique J



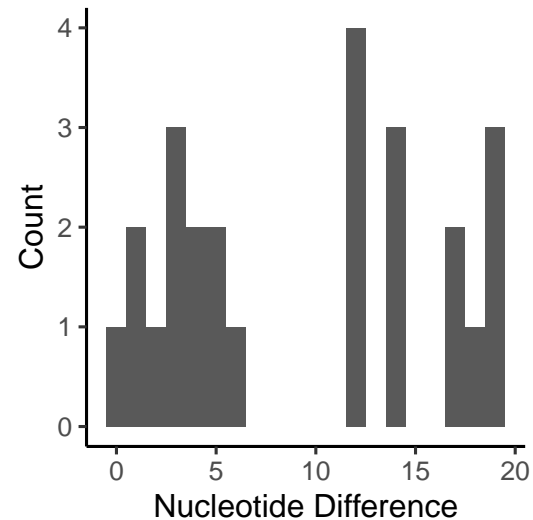
IGHV4-61*05

383 sequences assigned
3 (0.8%) exact matches, in which:
2 unique CDR3
2 unique J



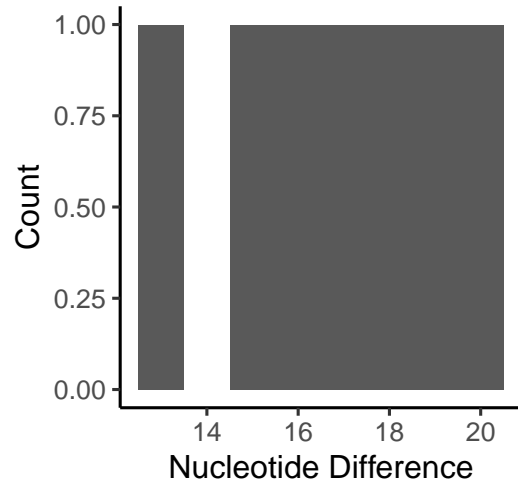
IGHV4/OR15-8*01

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



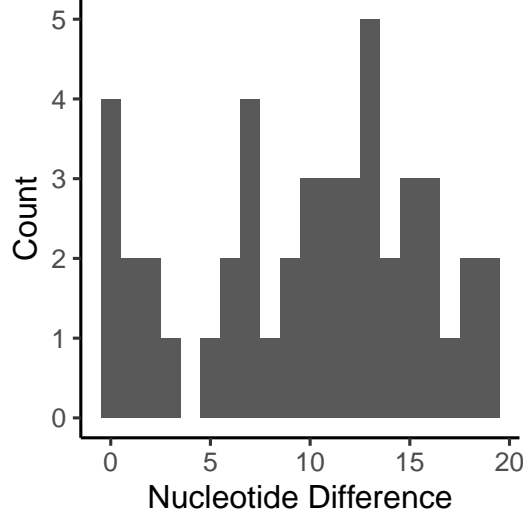
IGHV4/OR15-8*02

39 sequences assigned
No exact matches.



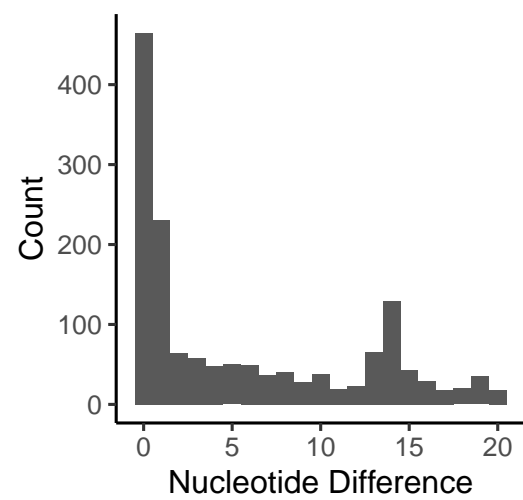
IGHV5-51*04

58 sequences assigned
4 (6.9%) exact matches, in which:
4 unique CDR3
3 unique J



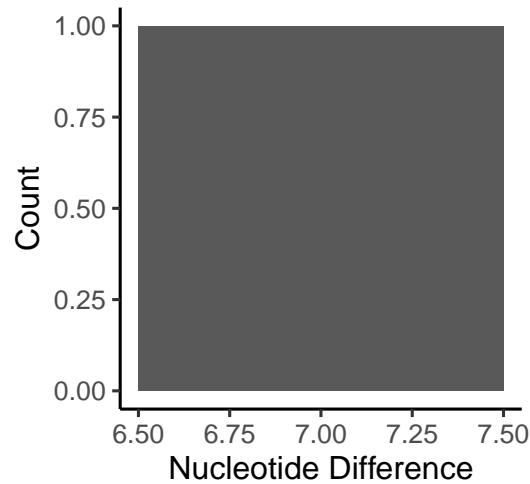
IGHV6-1*01_02

1559 sequences assigned
465 (29.8%) exact matches, in which:
434 unique CDR3
6 unique J



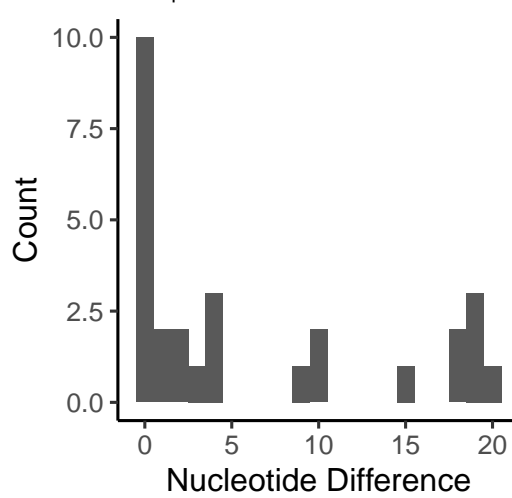
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



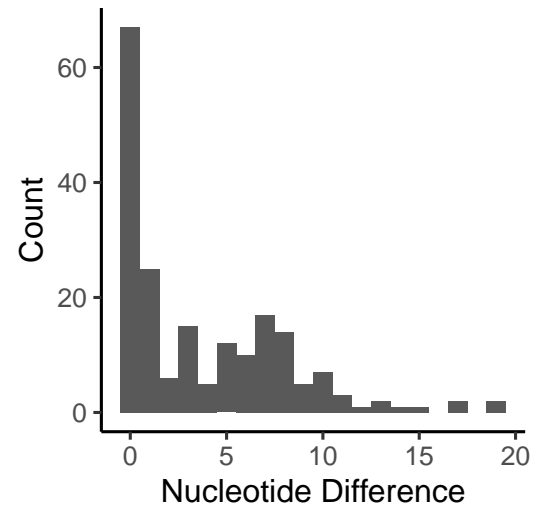
IGHV5-51*06

40 sequences assigned
10 (25%) exact matches, in which:
10 unique CDR3
4 unique J



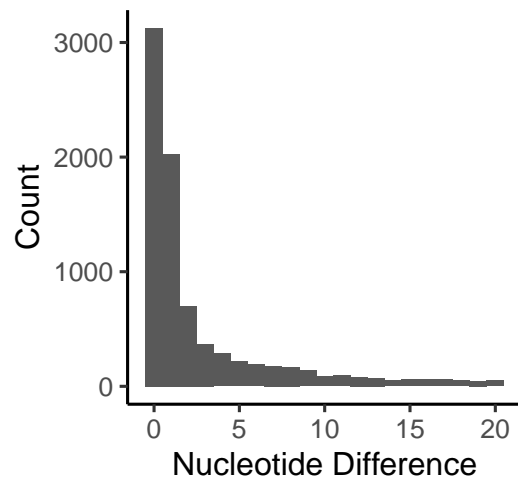
IGHV6-1*01_02_A315G

199 sequences assigned
67 (33.7%) exact matches, in which:
67 unique CDR3
5 unique J



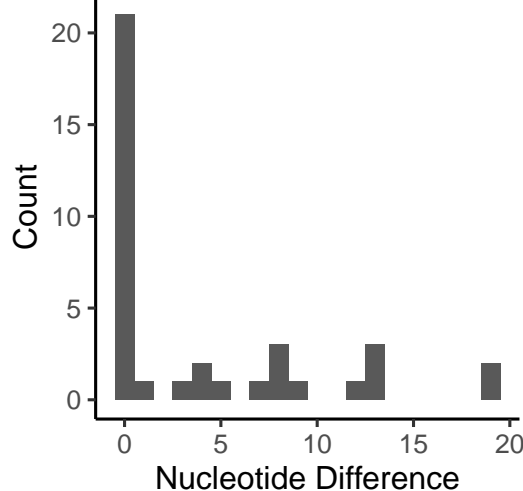
IGHV5-10-1*01_03

8751 sequences assigned
3126 (35.7%) exact matches, in which:
2524 unique CDR3
6 unique J



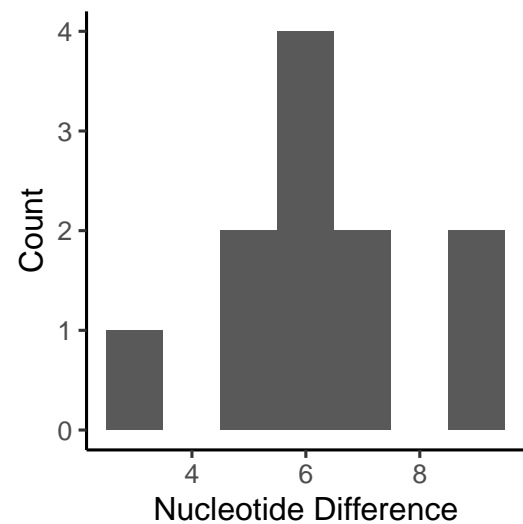
IGHV5-51*07

37 sequences assigned
21 (56.8%) exact matches, in which:
20 unique CDR3
4 unique J



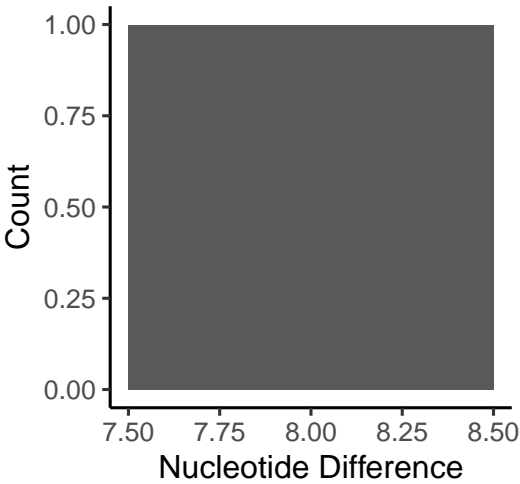
IGHV3/OR16-9*01

11 sequences assigned
No exact matches.



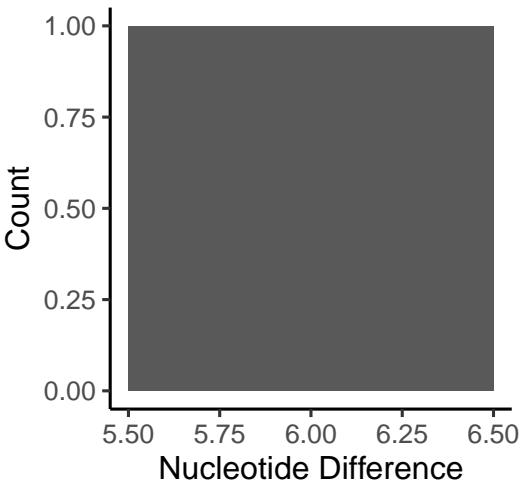
IGHV3/OR16-10*01_03

1 sequences assigned
No exact matches.



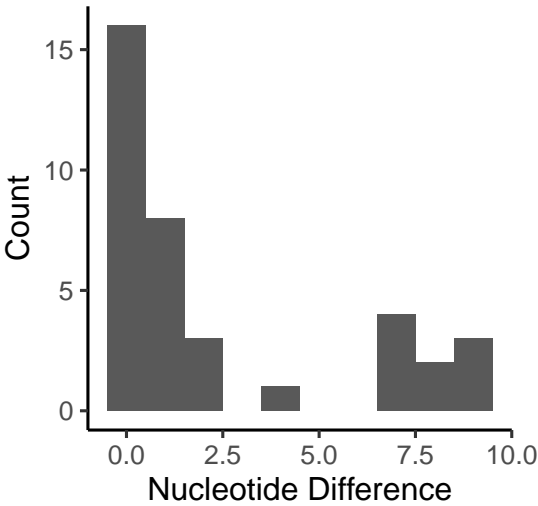
IGHV3/OR16-13*01

1 sequences assigned
No exact matches.



IGHV7-4-1*01

39 sequences assigned
16 (41%) exact matches, in which:
16 unique CDR3
4 unique J



IGHV6-1*01_02_A315G

