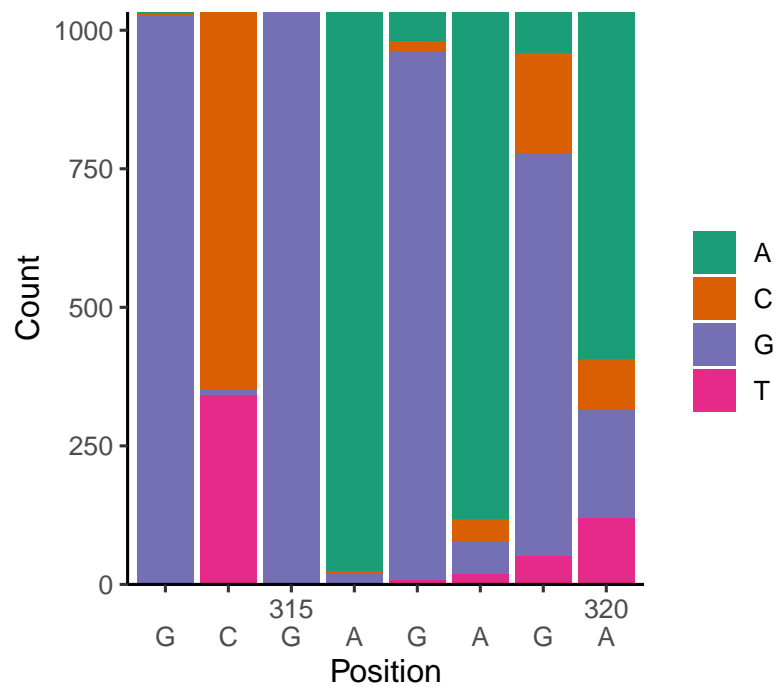


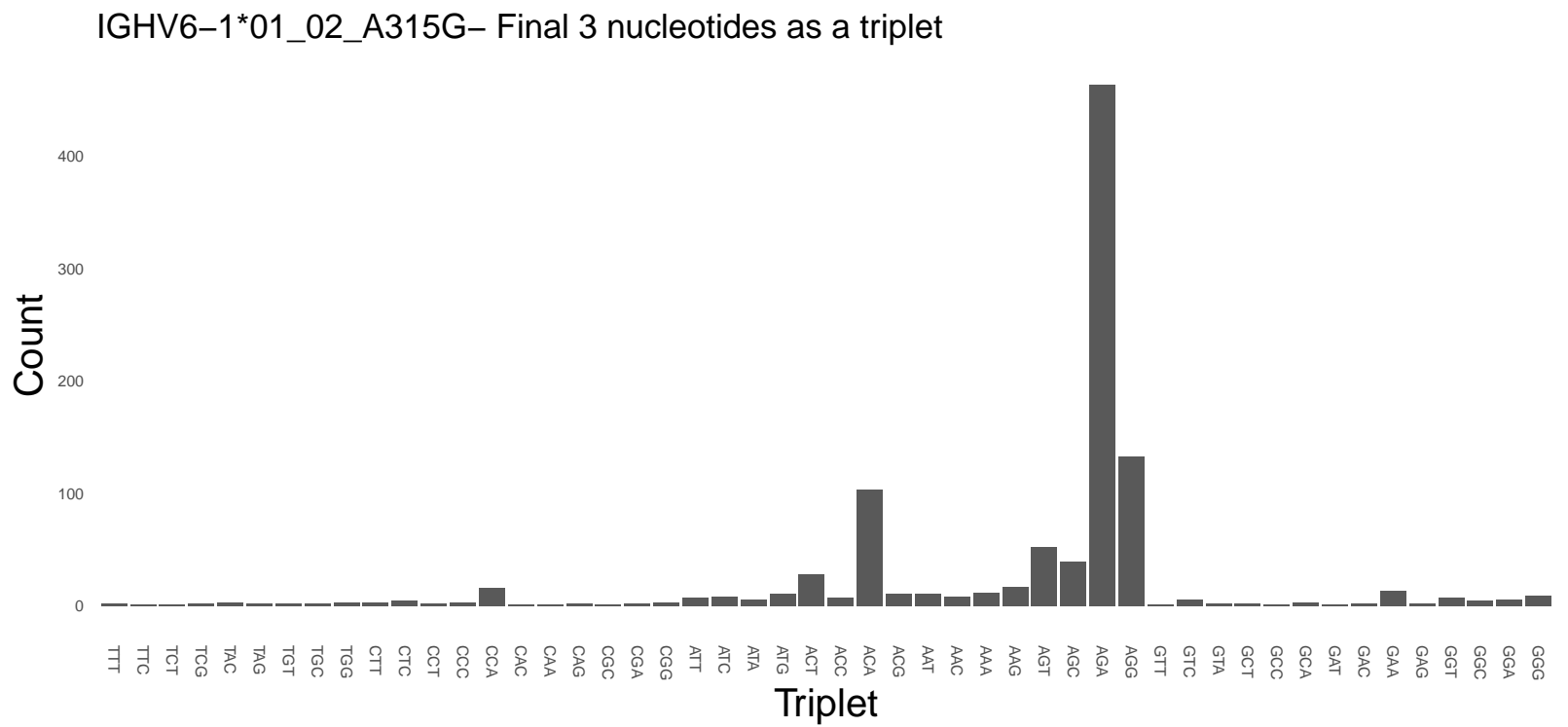
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

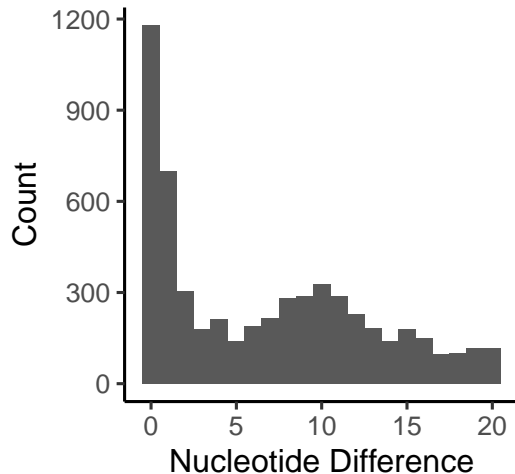


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



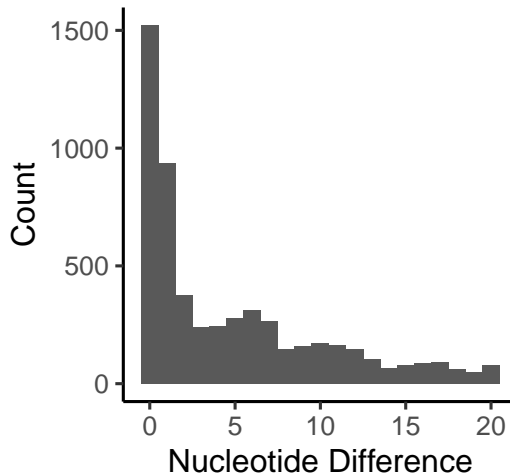
IGHV1-2*02

6641 sequences assigned
1179 (17.8%) exact matches, in which:
1085 unique CDR3
6 unique J



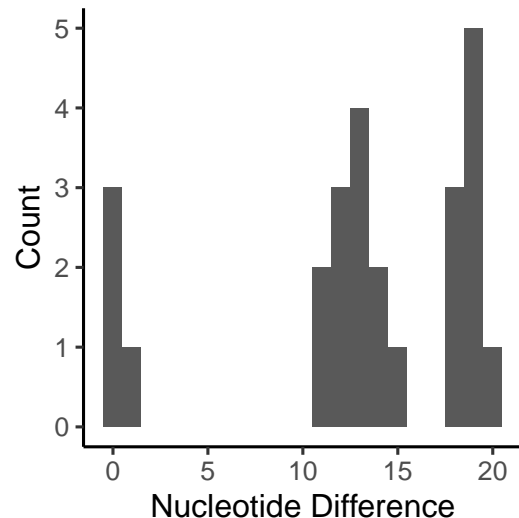
IGHV1-8*01

6492 sequences assigned
1521 (23.4%) exact matches, in which:
1359 unique CDR3
6 unique J



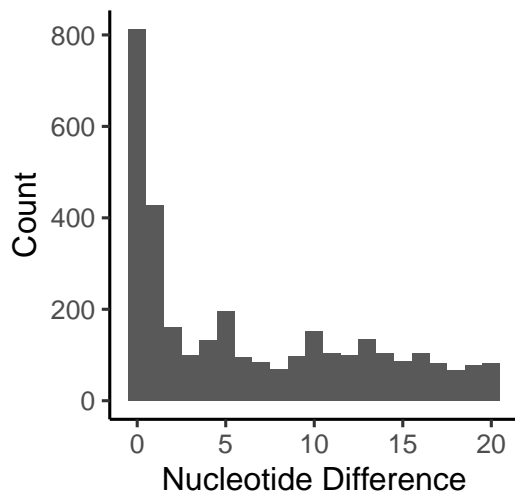
IGHV1-45*02

31 sequences assigned
3 (9.7%) exact matches, in which:
3 unique CDR3
2 unique J



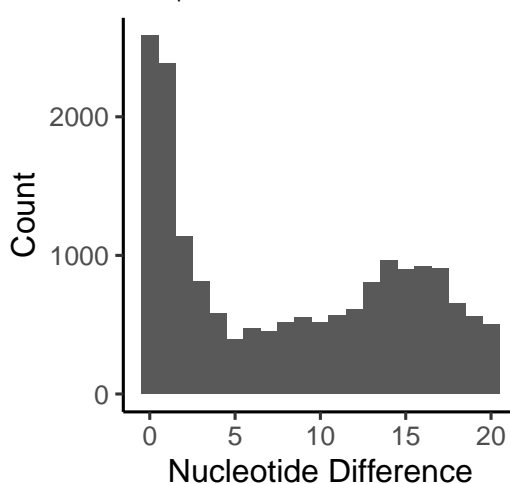
IGHV1-2*06

4272 sequences assigned
813 (19%) exact matches, in which:
758 unique CDR3
6 unique J



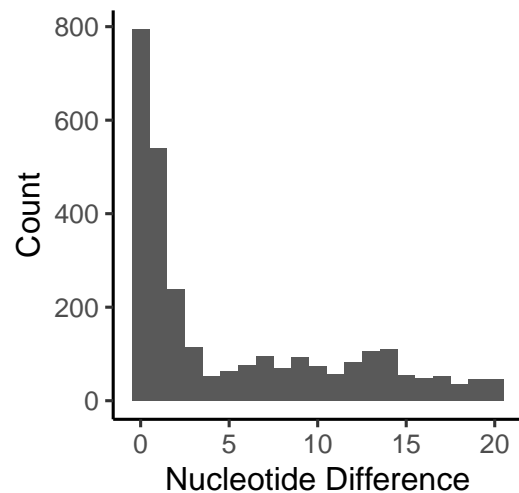
IGHV1-18*01

20477 sequences assigned
2585 (12.6%) exact matches, in which:
2247 unique CDR3
6 unique J



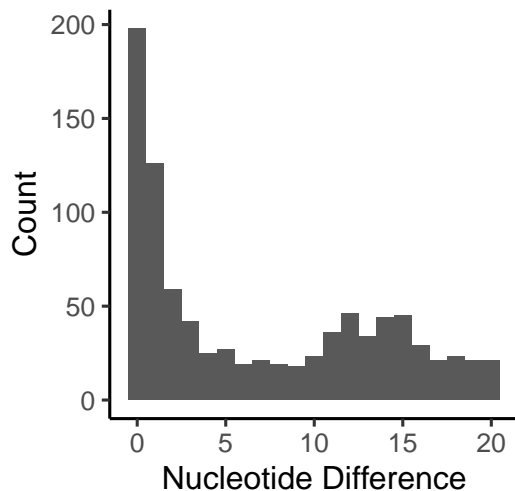
IGHV1-46*01

3259 sequences assigned
795 (24.4%) exact matches, in which:
724 unique CDR3
6 unique J



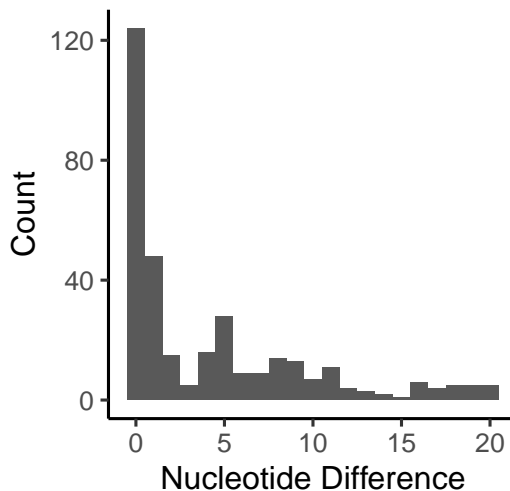
IGHV1-3*01_05

1116 sequences assigned
198 (17.7%) exact matches, in which:
176 unique CDR3
5 unique J



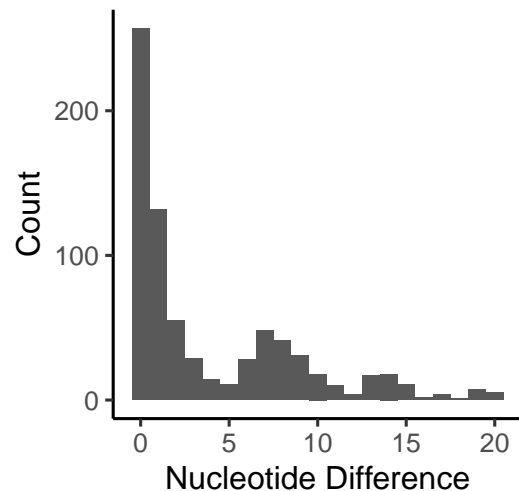
IGHV1-24*01

379 sequences assigned
124 (32.7%) exact matches, in which:
119 unique CDR3
6 unique J



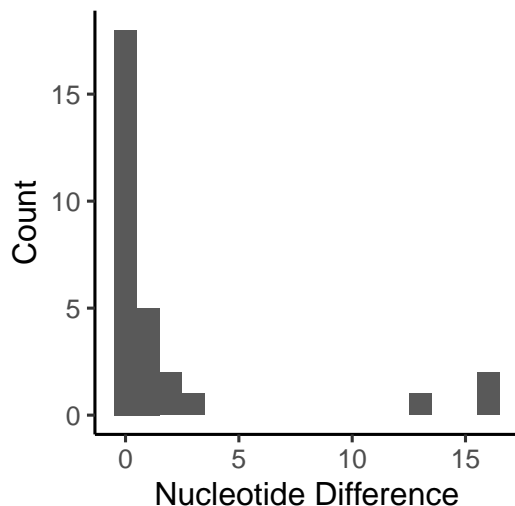
IGHV1-46*03

917 sequences assigned
257 (28%) exact matches, in which:
226 unique CDR3
6 unique J



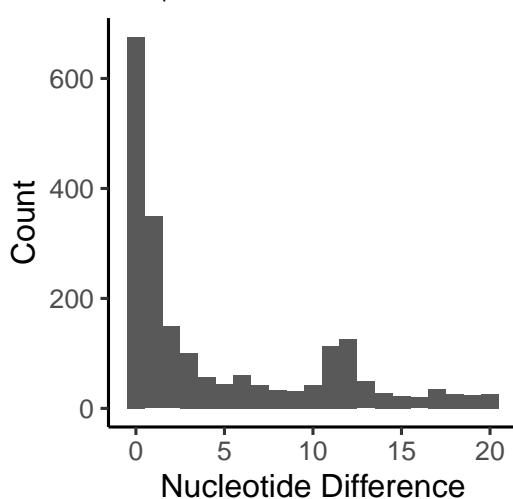
IGHV1-58*02

35 sequences assigned
18 (51.4%) exact matches, in which:
17 unique CDR3
4 unique J



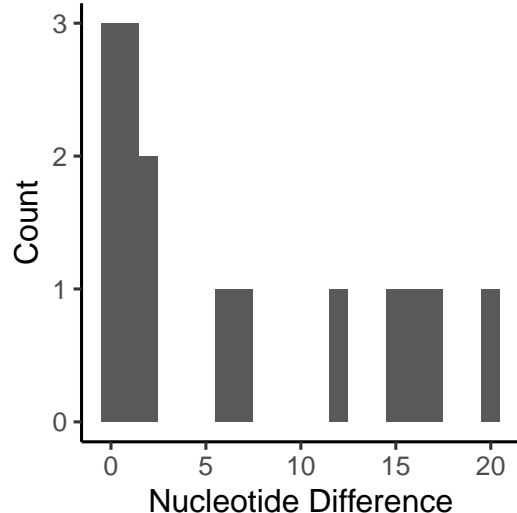
IGHV1-69*04_09

2653 sequences assigned
676 (25.5%) exact matches, in which:
633 unique CDR3
6 unique J



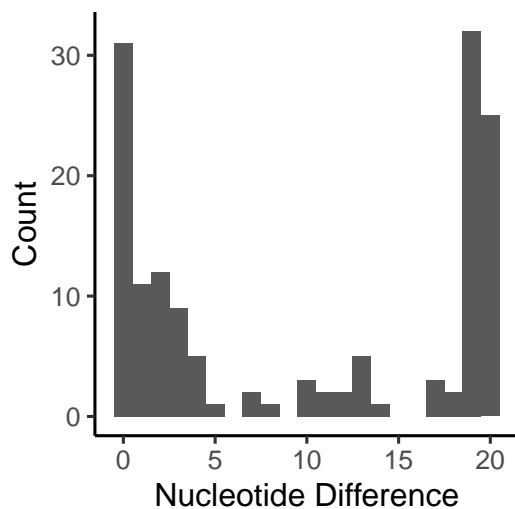
IGHV2-26*01

16 sequences assigned
3 (18.8%) exact matches, in which:
3 unique CDR3
2 unique J



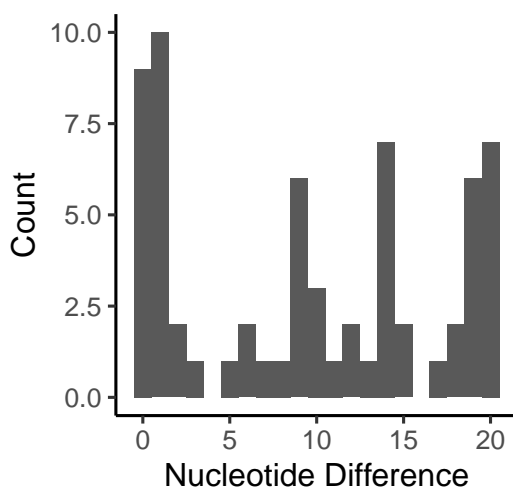
IGHV1-58*01_03

253 sequences assigned
31 (12.3%) exact matches, in which:
31 unique CDR3
5 unique J



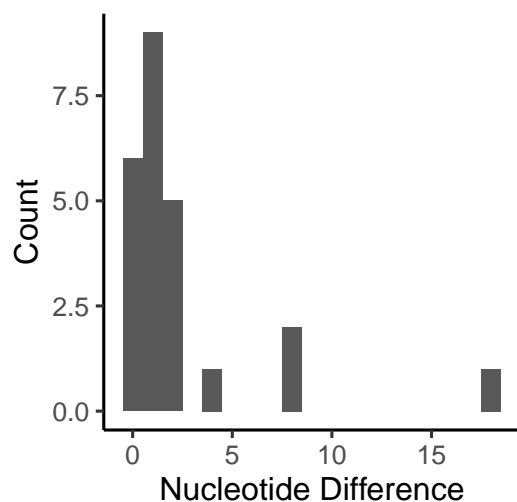
IGHV2-5*01

91 sequences assigned
9 (9.9%) exact matches, in which:
7 unique CDR3
3 unique J



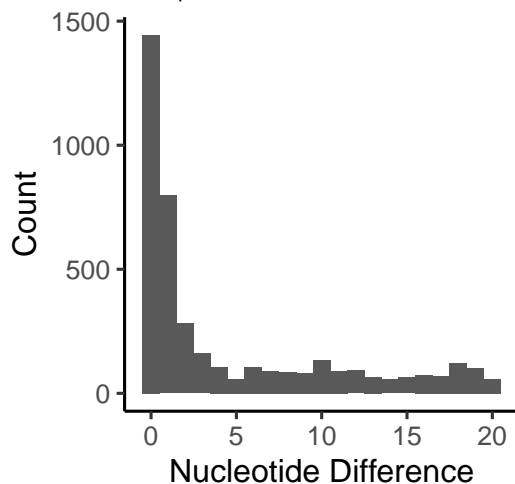
IGHV2-70*01

27 sequences assigned
6 (22.2%) exact matches, in which:
6 unique CDR3
4 unique J



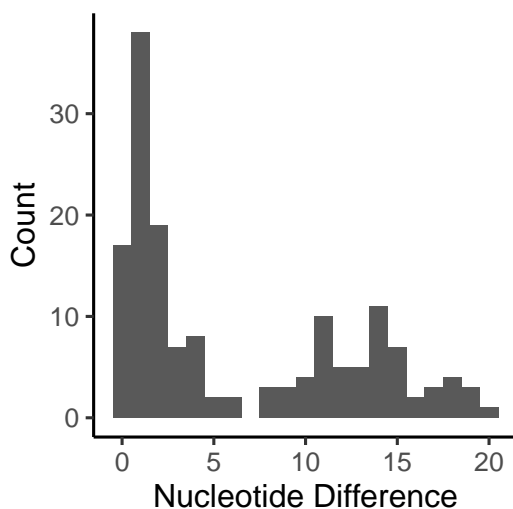
IGHV1-69*01_12_13

5622 sequences assigned
1444 (25.7%) exact matches, in which:
1348 unique CDR3
6 unique J



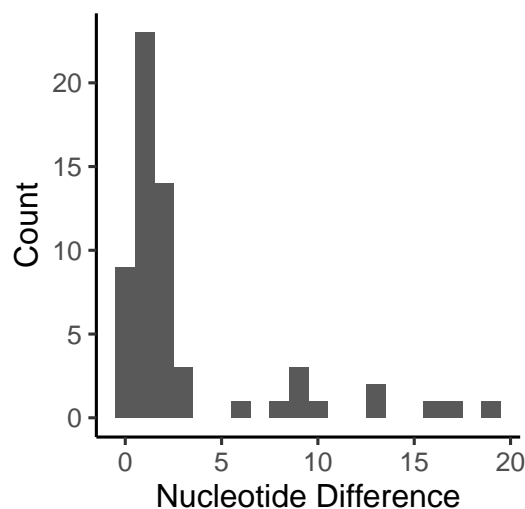
IGHV2-5*02

169 sequences assigned
17 (10.1%) exact matches, in which:
14 unique CDR3
4 unique J



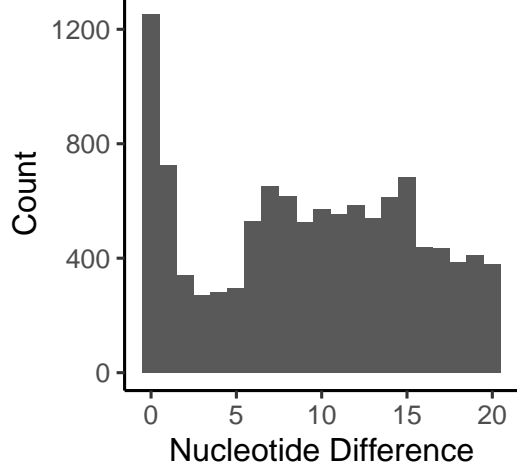
IGHV2-70*11_15

67 sequences assigned
9 (13.4%) exact matches, in which:
8 unique CDR3
2 unique J



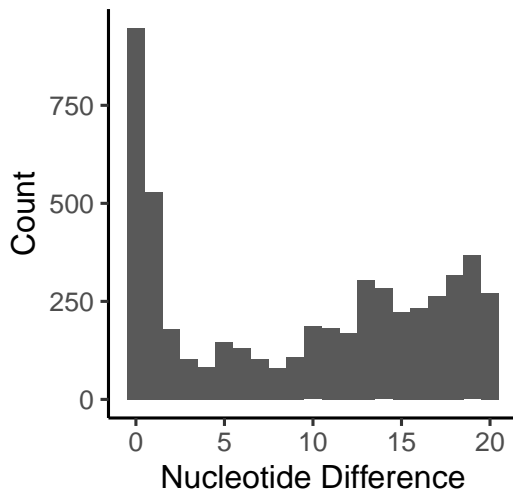
IGHV3-7*01

12622 sequences assigned
1252 (9.9%) exact matches, in which:
1133 unique CDR3
6 unique J



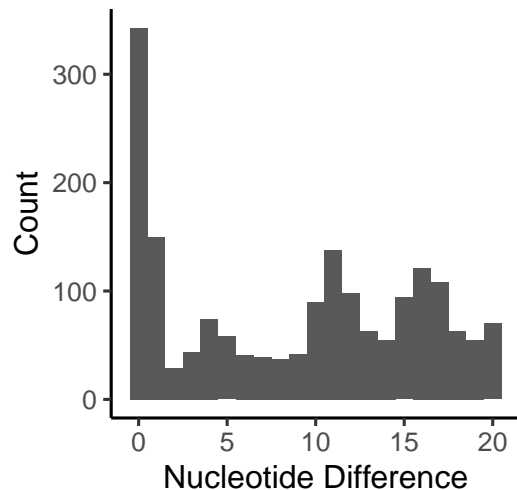
IGHV3-11*01

6913 sequences assigned
948 (13.7%) exact matches, in which:
878 unique CDR3
6 unique J



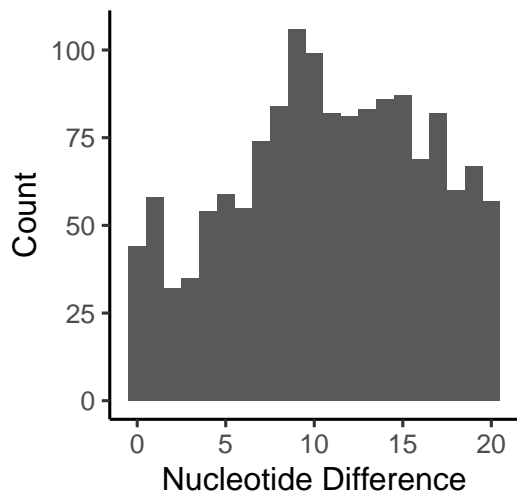
IGHV3-15*01_02

2346 sequences assigned
343 (14.6%) exact matches, in which:
319 unique CDR3
6 unique J



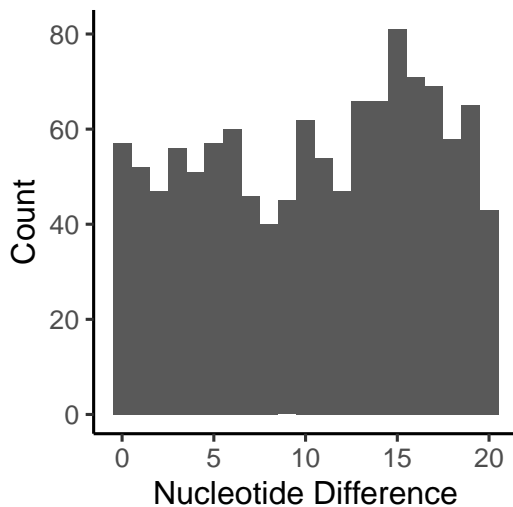
IGHV3-7*03

1668 sequences assigned
44 (2.6%) exact matches, in which:
44 unique CDR3
6 unique J



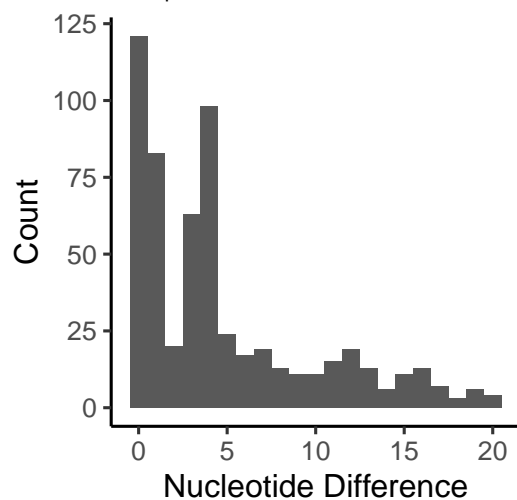
IGHV3-11*04

1457 sequences assigned
57 (3.9%) exact matches, in which:
57 unique CDR3
5 unique J



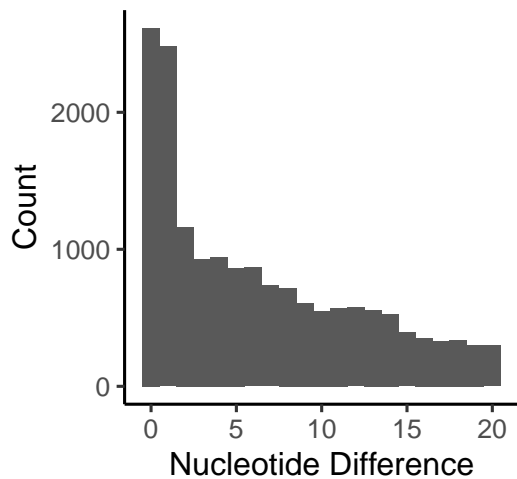
IGHV3-20*01_02

594 sequences assigned
121 (20.4%) exact matches, in which:
104 unique CDR3
5 unique J



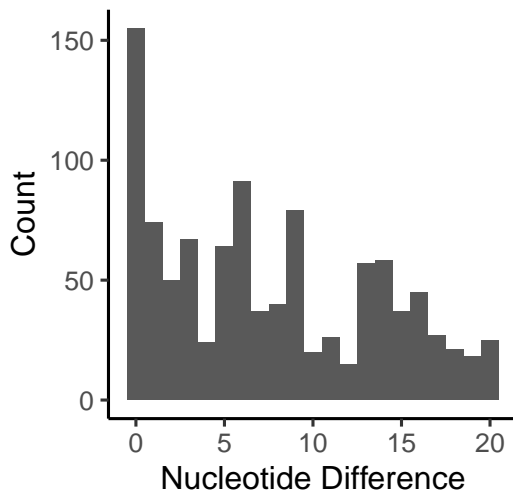
IGHV3-9*01

18858 sequences assigned
2615 (13.9%) exact matches, in which:
2155 unique CDR3
6 unique J



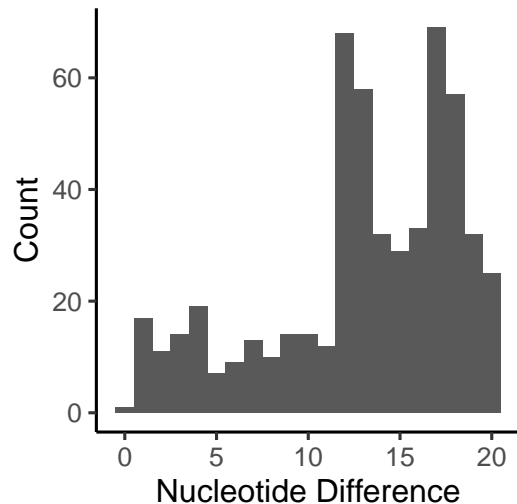
IGHV3-13*01

1214 sequences assigned
155 (12.8%) exact matches, in which:
143 unique CDR3
6 unique J



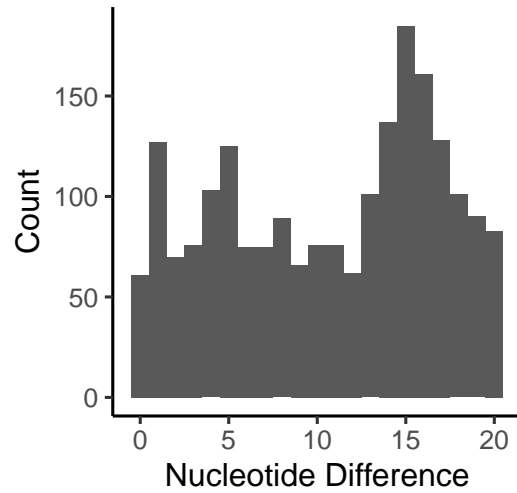
IGHV3-20*03_04

613 sequences assigned
1 (0.2%) exact matches, in which:
1 unique CDR3
1 unique J



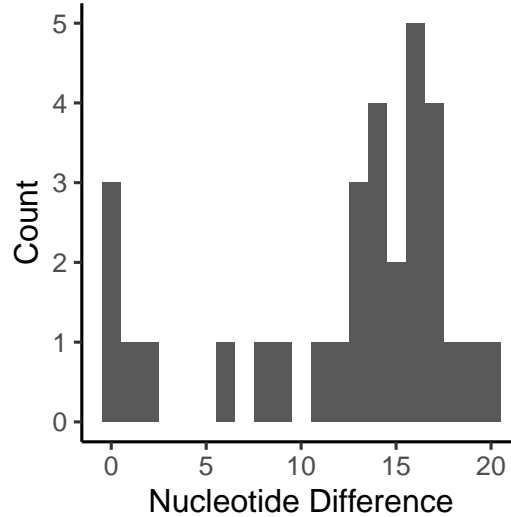
IGHV3-21*04

2602 sequences assigned
61 (2.3%) exact matches, in which:
61 unique CDR3
6 unique J



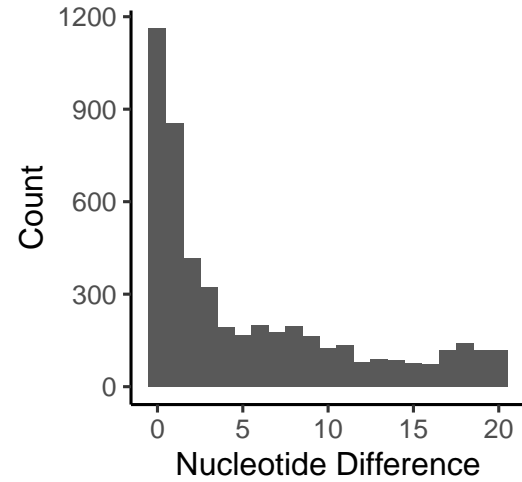
IGHV3-30-3*01

38 sequences assigned
3 (7.9%) exact matches, in which:
3 unique CDR3
3 unique J



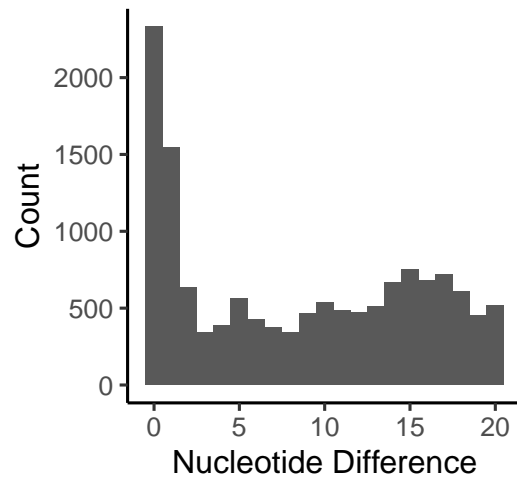
IGHV3-30*04

5485 sequences assigned
1162 (21.2%) exact matches, in which:
1037 unique CDR3
6 unique J



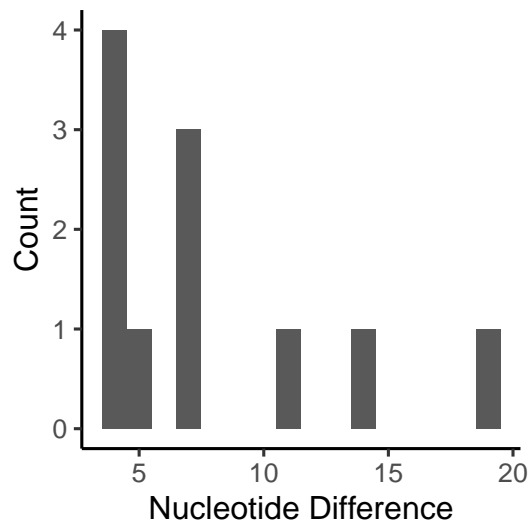
IGHV3-21*01_02

17494 sequences assigned
2331 (13.3%) exact matches, in which:
2053 unique CDR3
6 unique J



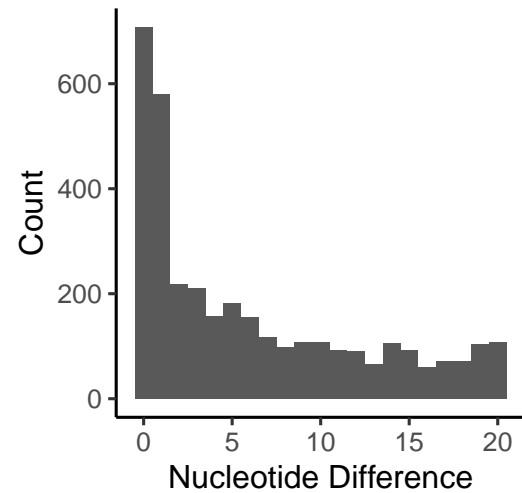
IGHV3-30-3*02

16 sequences assigned
No exact matches.



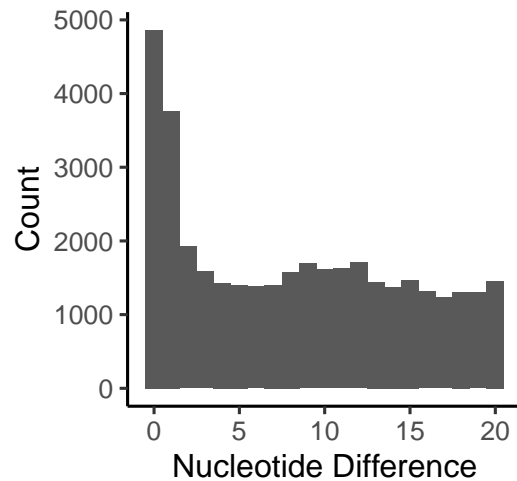
IGHV3-30*18

4422 sequences assigned
708 (16%) exact matches, in which:
593 unique CDR3
6 unique J



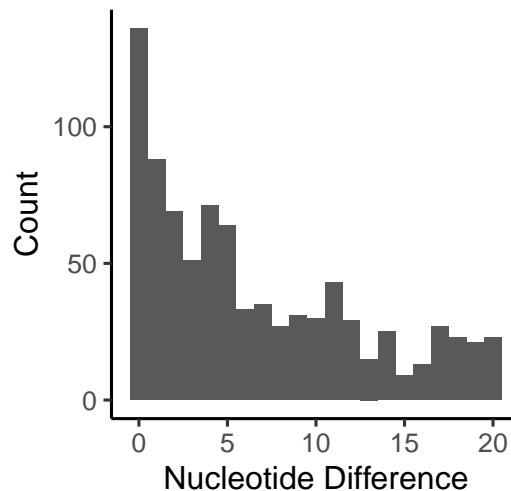
IGHV3-23*01_04

46561 sequences assigned
4862 (10.4%) exact matches, in which:
4166 unique CDR3
6 unique J



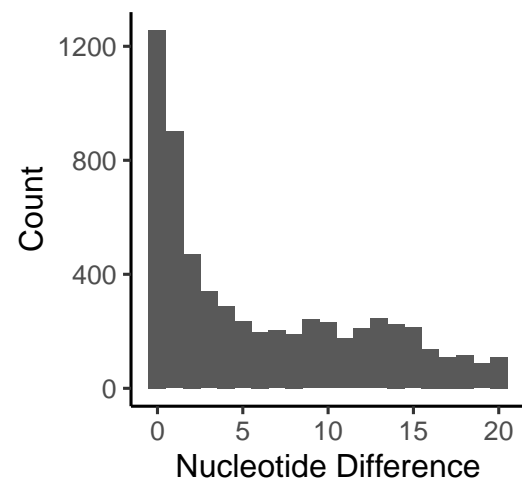
IGHV3-30*03

1026 sequences assigned
136 (13.3%) exact matches, in which:
134 unique CDR3
5 unique J



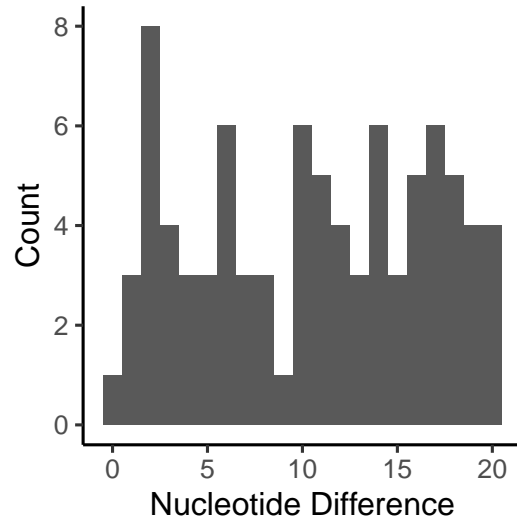
IGHV3-33*01

7013 sequences assigned
1257 (17.9%) exact matches, in which:
1133 unique CDR3
6 unique J



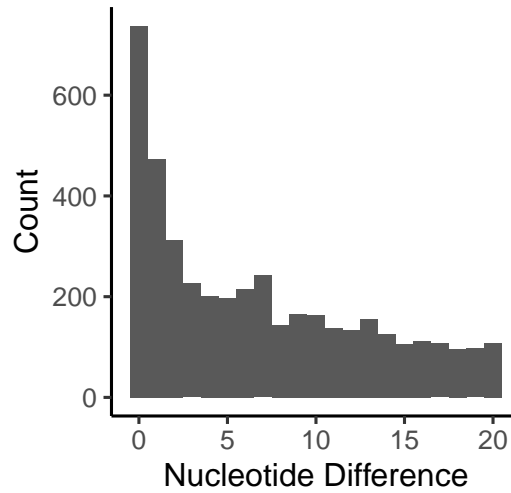
IGHV3-33*05

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



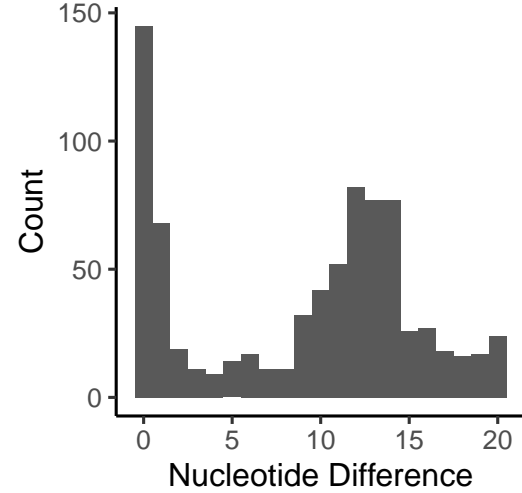
IGHV3-48*01

4899 sequences assigned
738 (15.1%) exact matches, in which:
655 unique CDR3
6 unique J



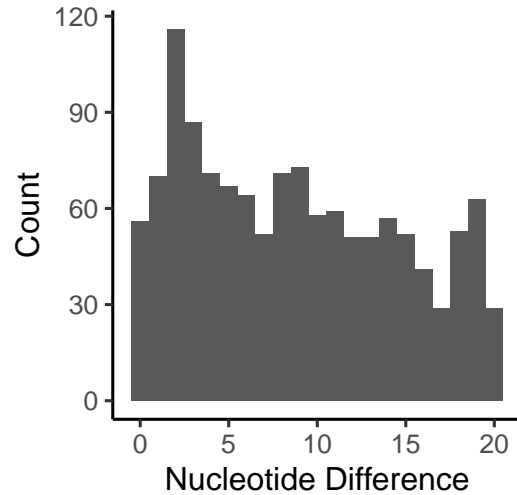
IGHV3-49*03_05

1013 sequences assigned
145 (14.3%) exact matches, in which:
137 unique CDR3
6 unique J



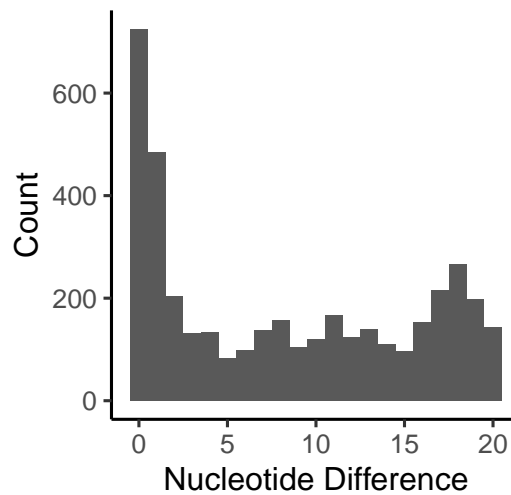
IGHV3-33*06

2177 sequences assigned
56 (2.6%) exact matches, in which:
50 unique CDR3
5 unique J



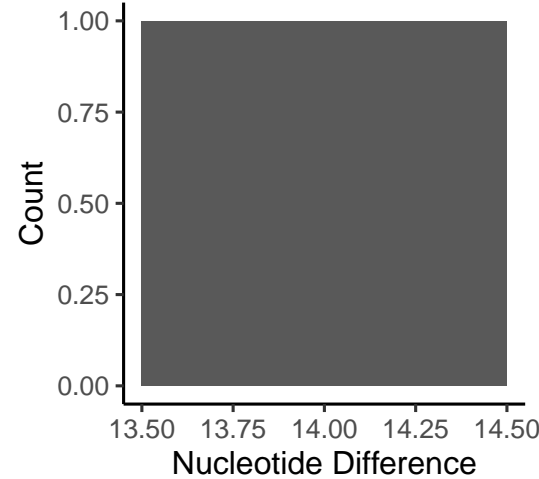
IGHV3-48*02

4903 sequences assigned
725 (14.8%) exact matches, in which:
624 unique CDR3
6 unique J



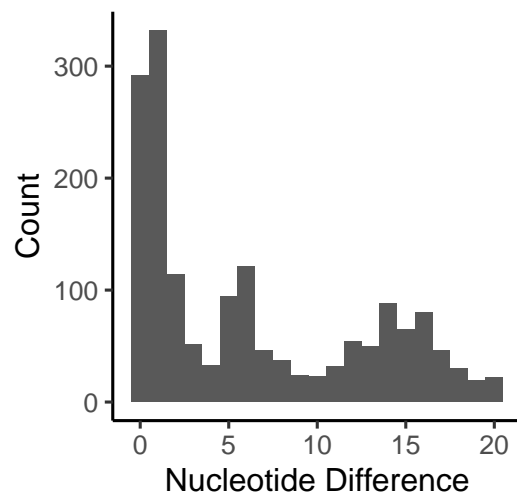
IGHV3-52*02

1 sequences assigned
No exact matches.



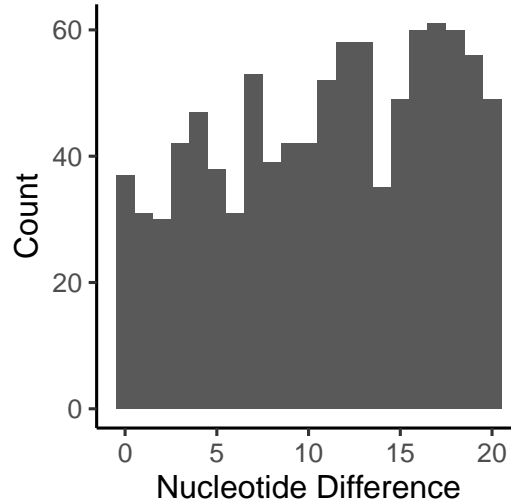
IGHV3-43*01

1828 sequences assigned
292 (16%) exact matches, in which:
225 unique CDR3
6 unique J



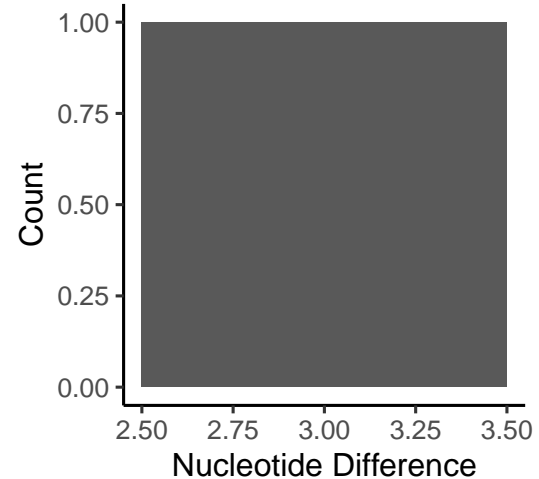
IGHV3-48*04

1378 sequences assigned
37 (2.7%) exact matches, in which:
37 unique CDR3
6 unique J



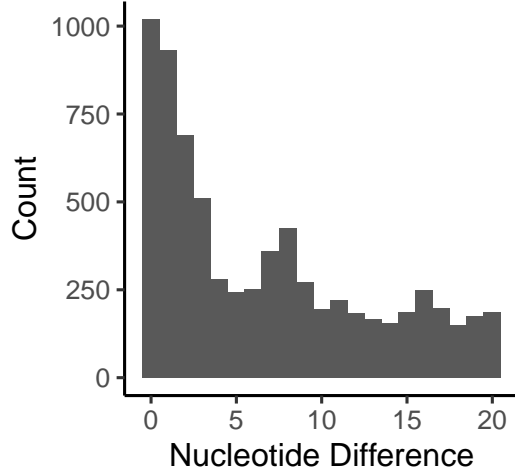
IGHV3-52*01_03

1 sequences assigned
No exact matches.



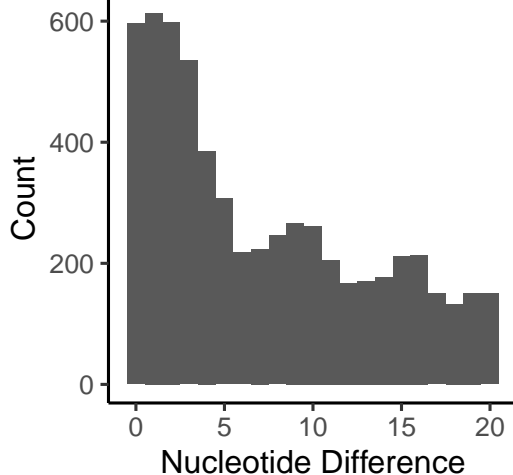
IGHV3-53*01_02

8395 sequences assigned
1019 (12.1%) exact matches, in which:
859 unique CDR3
6 unique J



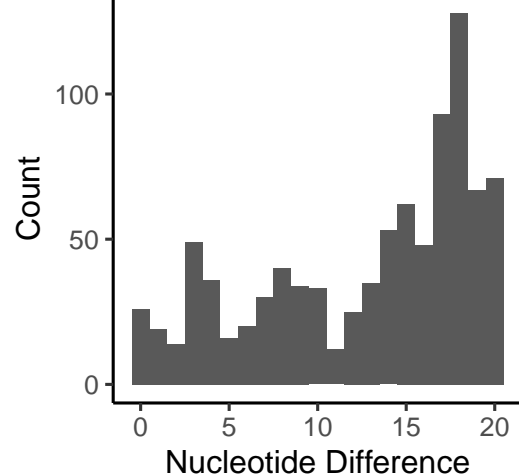
IGHV3-66*01

7252 sequences assigned
596 (8.2%) exact matches, in which:
533 unique CDR3
6 unique J



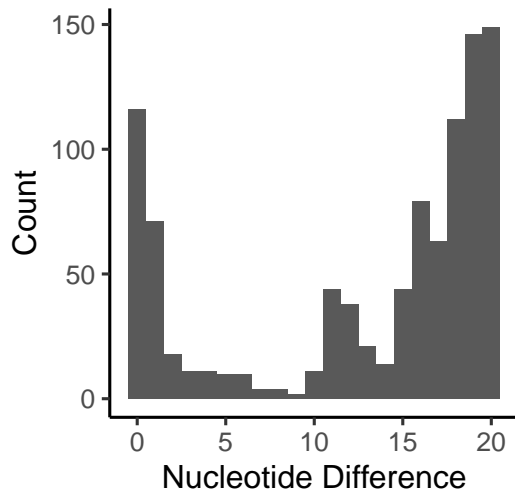
IGHV3-72*01

1314 sequences assigned
26 (2%) exact matches, in which:
25 unique CDR3
4 unique J



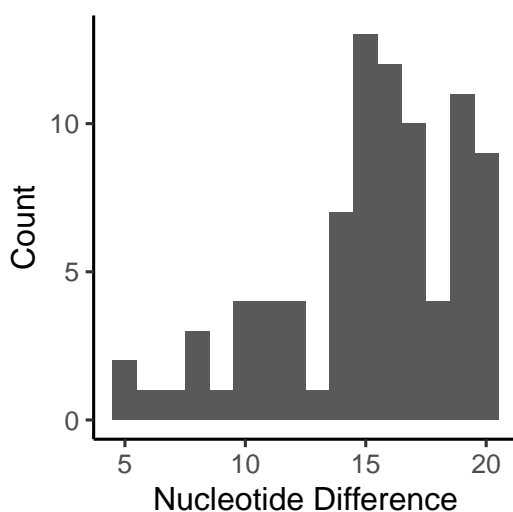
IGHV3-64*01

3491 sequences assigned
116 (3.3%) exact matches, in which:
103 unique CDR3
6 unique J



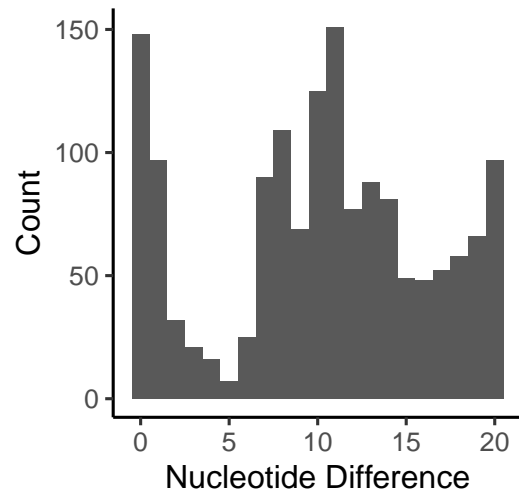
IGHV3-69-1*01

178 sequences assigned
No exact matches.



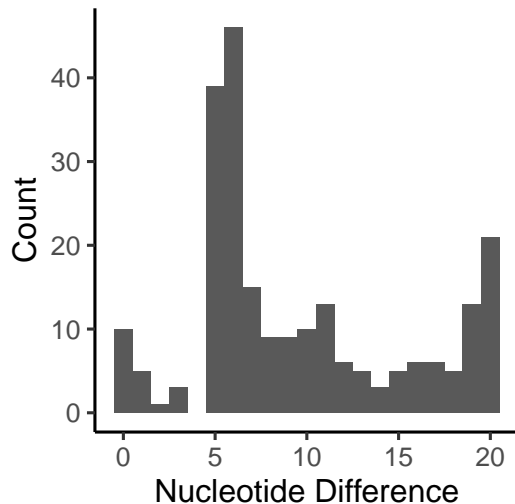
IGHV3-73*01_02

2269 sequences assigned
148 (6.5%) exact matches, in which:
136 unique CDR3
6 unique J



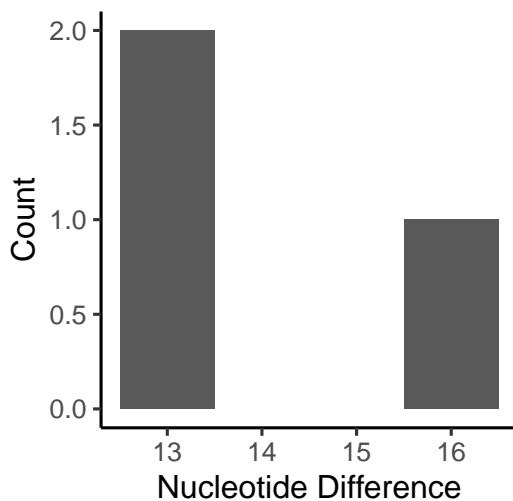
IGHV3-64*02_07

1499 sequences assigned
10 (0.7%) exact matches, in which:
10 unique CDR3
3 unique J



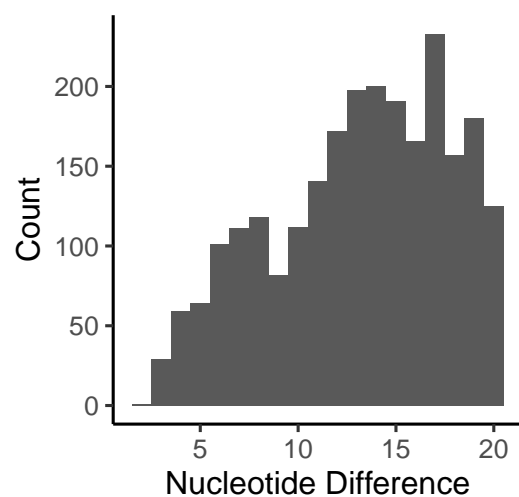
IGHV3-69-1*02

179 sequences assigned
No exact matches.



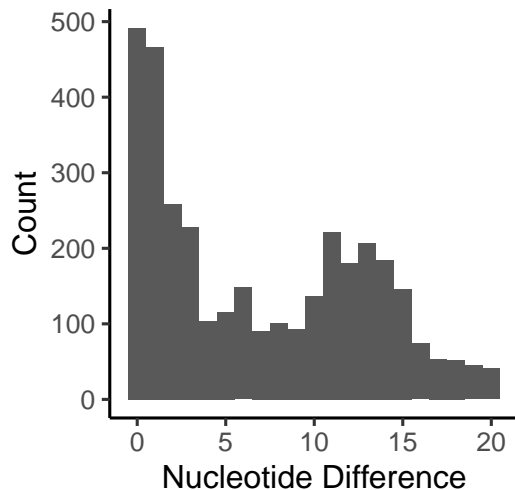
IGHV3-74*03

3195 sequences assigned
No exact matches.



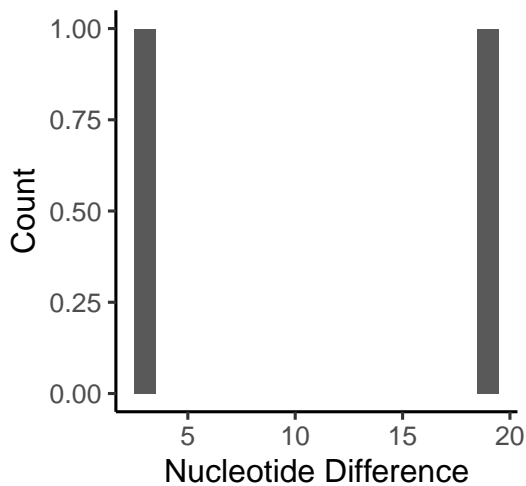
IGHV3-74*01_02

3857 sequences assigned
492 (12.8%) exact matches, in which:
404 unique CDR3
5 unique J



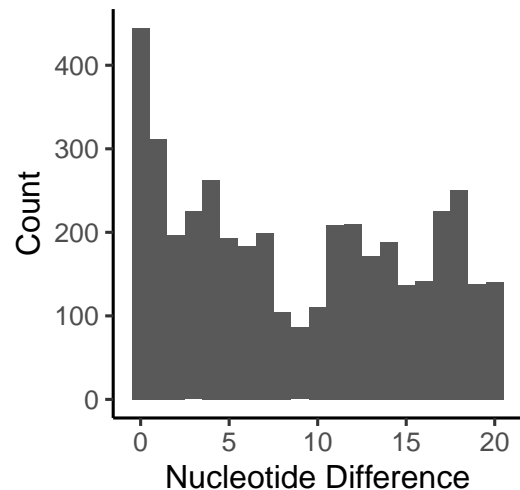
IGHV3-64D*06

5 sequences assigned
No exact matches.



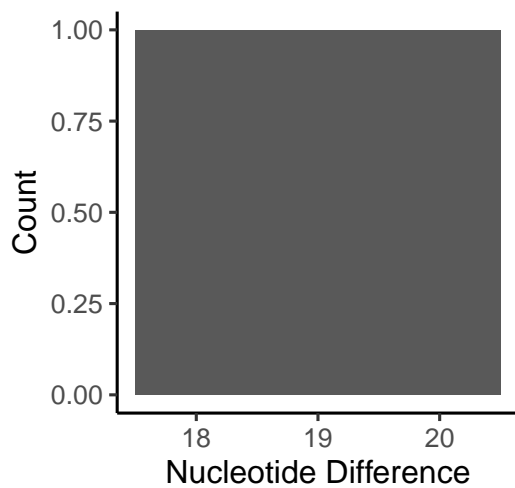
IGHV4-4*02_03

5254 sequences assigned
445 (8.5%) exact matches, in which:
389 unique CDR3
6 unique J



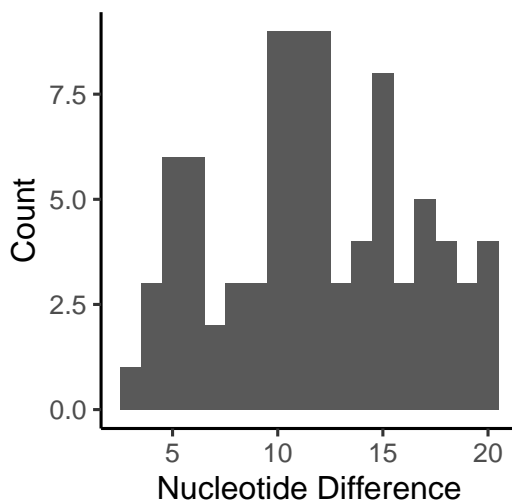
IGHV3-43D*03

4 sequences assigned
No exact matches.



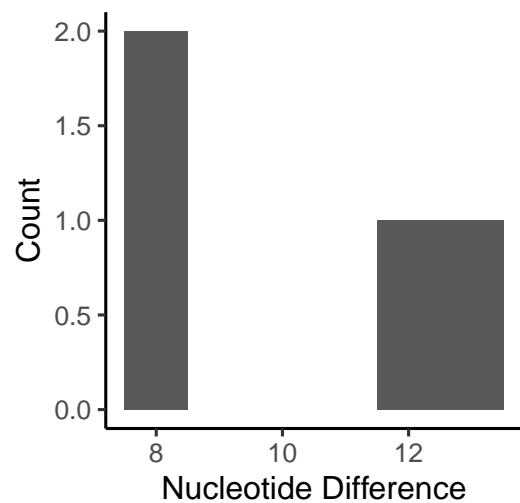
IGHV3-NL1*01

156 sequences assigned
No exact matches.



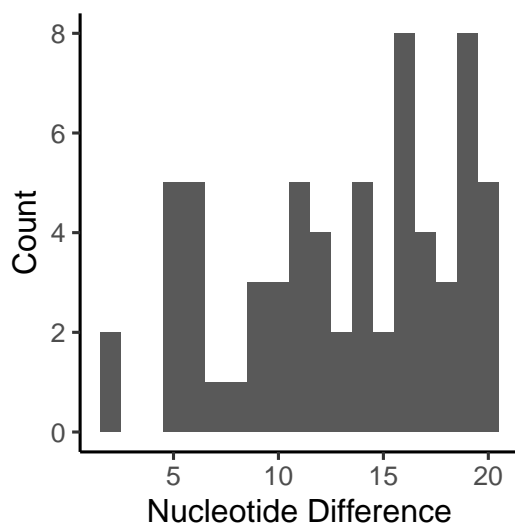
IGHV4-28*03

5 sequences assigned
No exact matches.



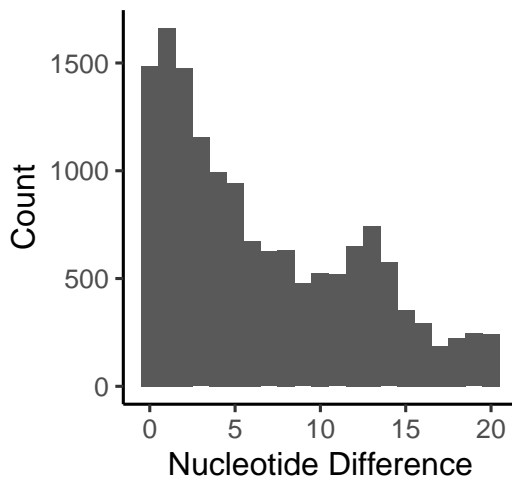
IGHV3-43D*04

83 sequences assigned
No exact matches.



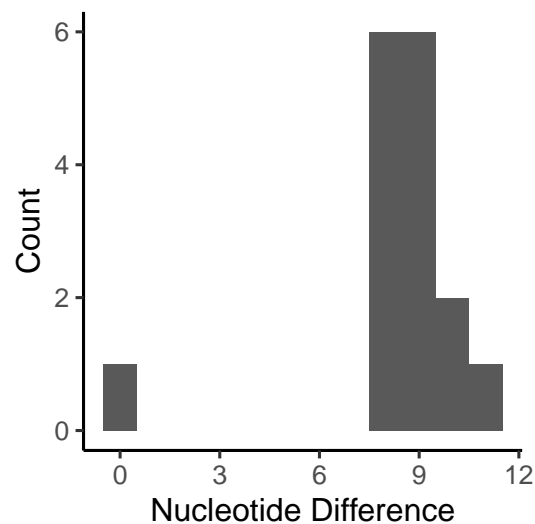
IGHV4-4*07

17652 sequences assigned
1485 (8.4%) exact matches, in which:
1172 unique CDR3
6 unique J



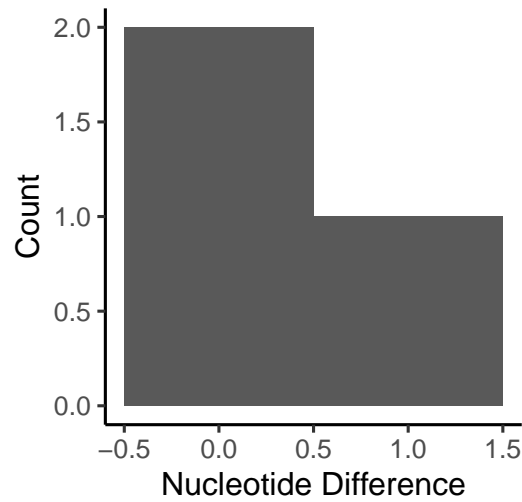
IGHV4-28*01_07

18 sequences assigned
1 (5.6%) exact matches, in which:
1 unique CDR3
1 unique J



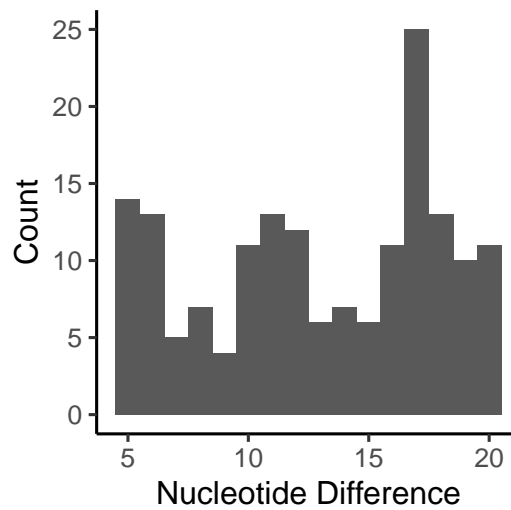
IGHV4-28*02_05

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



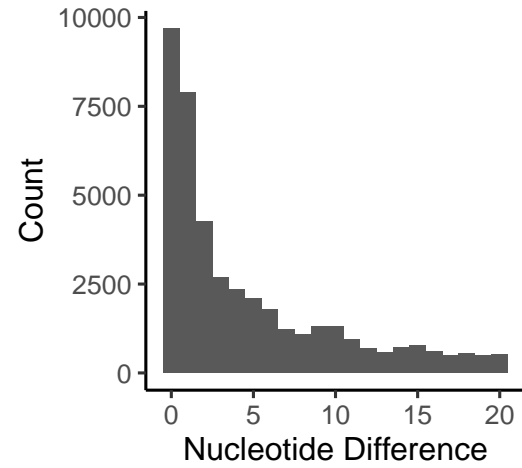
IGHV4-30-2*03

380 sequences assigned
No exact matches.



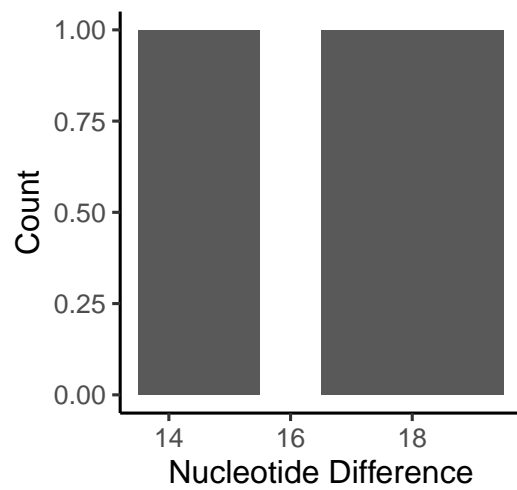
IGHV4-34*01_02

46872 sequences assigned
9699 (20.7%) exact matches, in which:
7764 unique CDR3
6 unique J



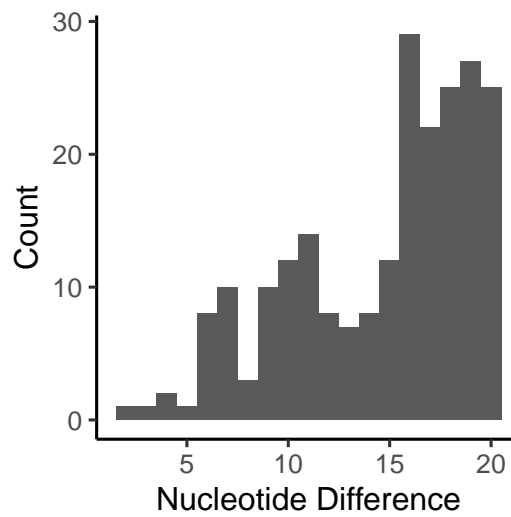
IGHV4-30-2*01

12 sequences assigned
No exact matches.



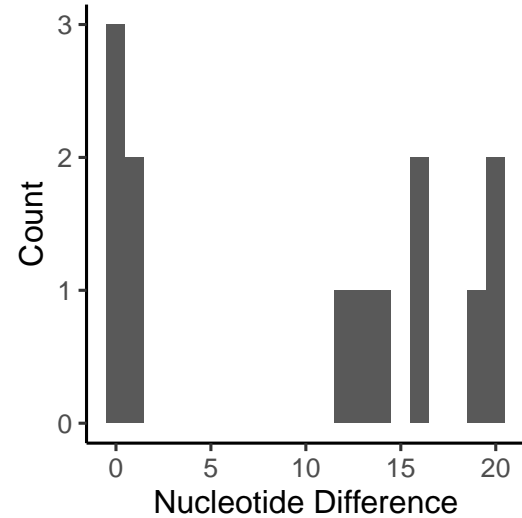
IGHV4-30-4*08

410 sequences assigned
No exact matches.



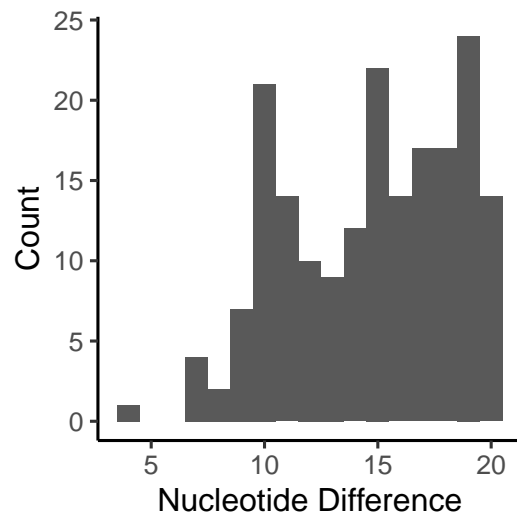
IGHV4-38-2*01

24 sequences assigned
3 (12.5%) exact matches, in which:
2 unique CDR3
1 unique J



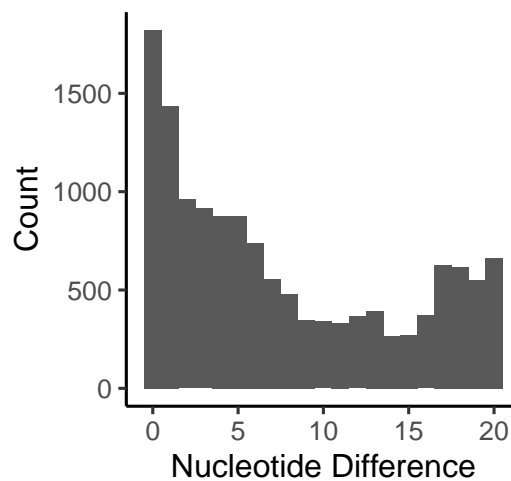
IGHV4-30-4*01

313 sequences assigned
No exact matches.



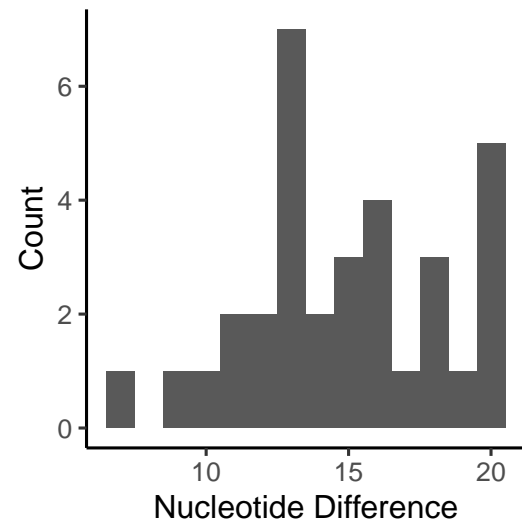
IGHV4-31*02

17910 sequences assigned
1822 (10.2%) exact matches, in which:
1466 unique CDR3
6 unique J



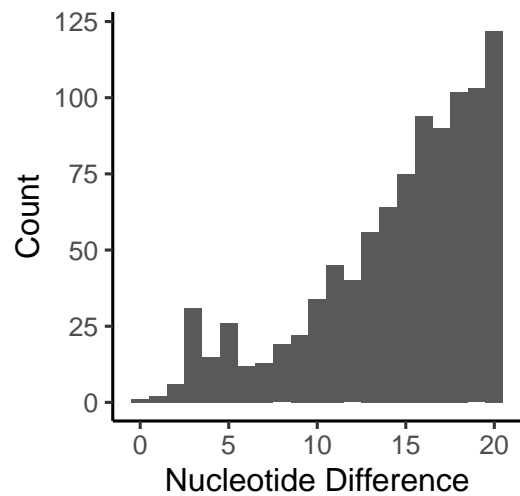
IGHV4-38-2*02

146 sequences assigned
No exact matches.



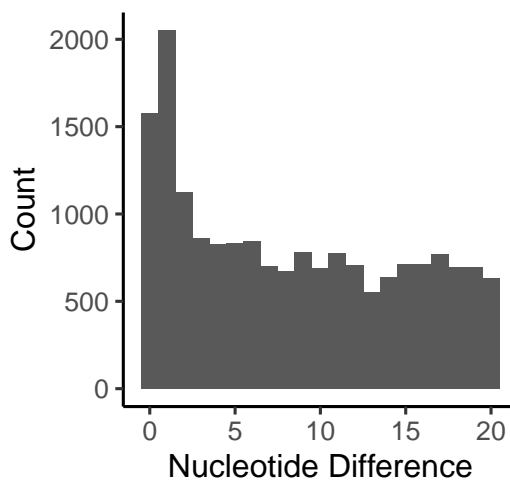
IGHV4–39*02

3110 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



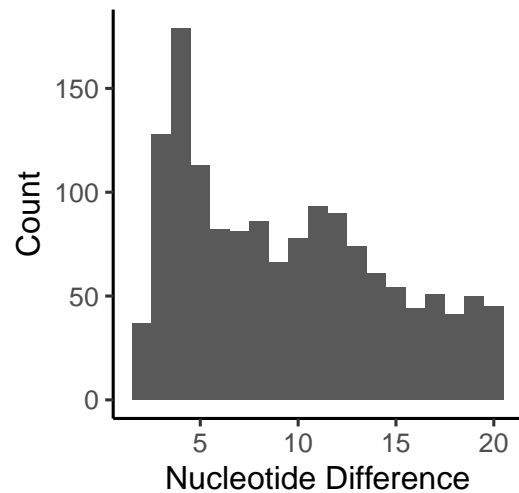
IGHV4–59*08

21275 sequences assigned
1575 (7.4%) exact matches, in which:
1170 unique CDR3
6 unique J



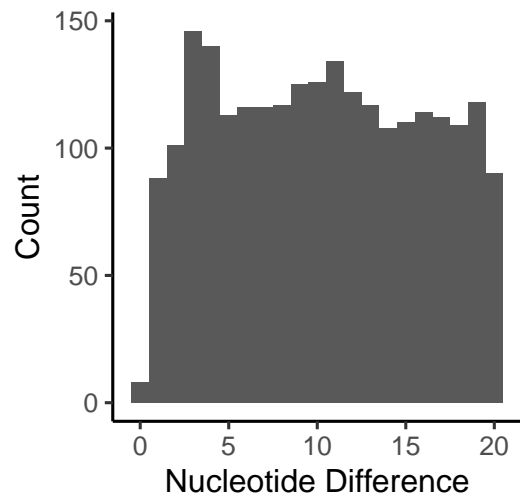
IGHV4–61*05

1722 sequences assigned
No exact matches.



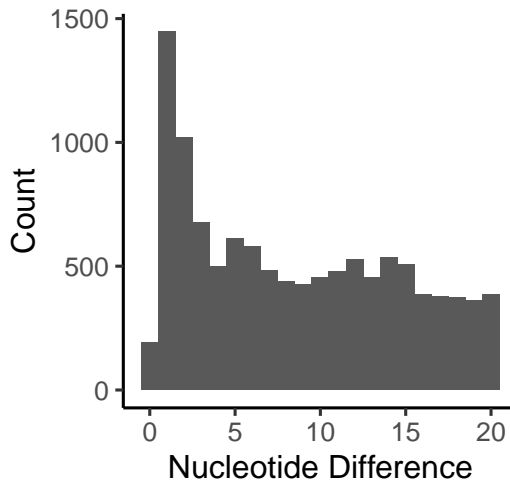
IGHV4–39*07

2794 sequences assigned
8 (0.3%) exact matches, in which:
7 unique CDR3
5 unique J



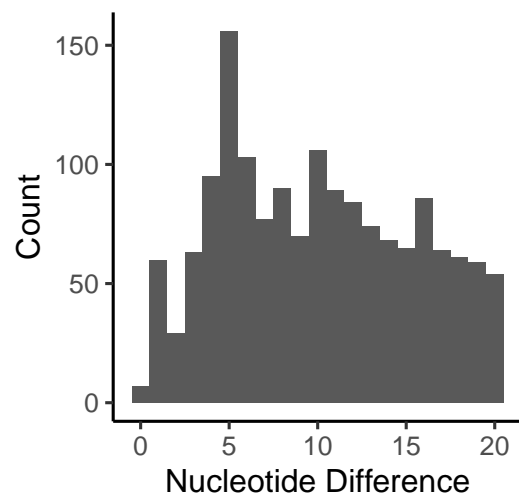
IGHV4–59*12

15134 sequences assigned
192 (1.3%) exact matches, in which:
176 unique CDR3
6 unique J



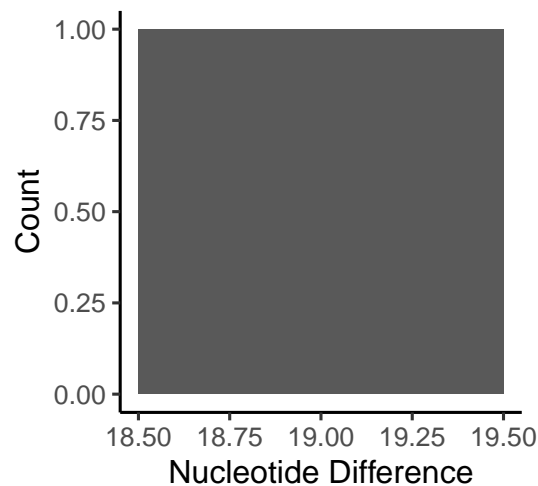
IGHV4–61*08

1889 sequences assigned
7 (0.4%) exact matches, in which:
7 unique CDR3
3 unique J



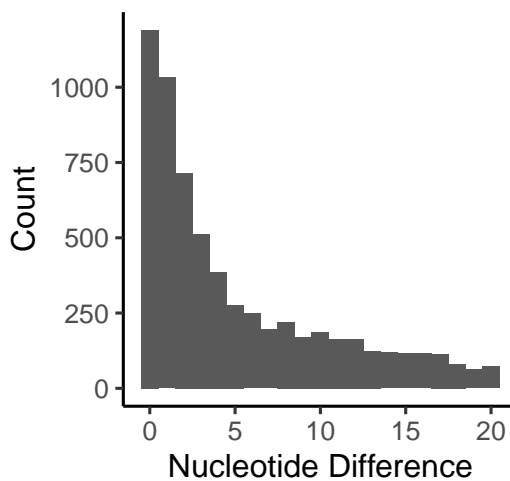
IGHV4–55*09

7 sequences assigned
No exact matches.



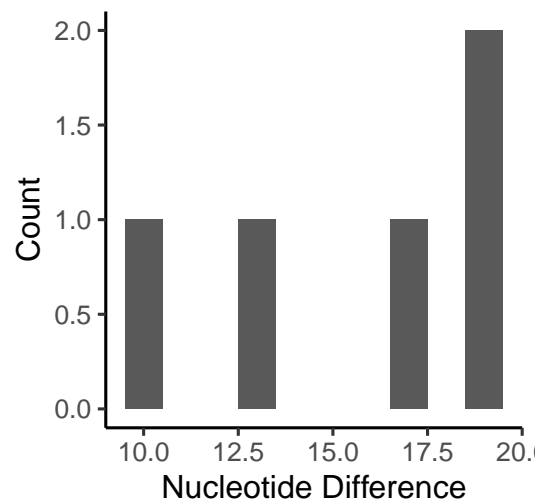
IGHV4–61*01

6760 sequences assigned
1190 (17.6%) exact matches, in which:
931 unique CDR3
6 unique J



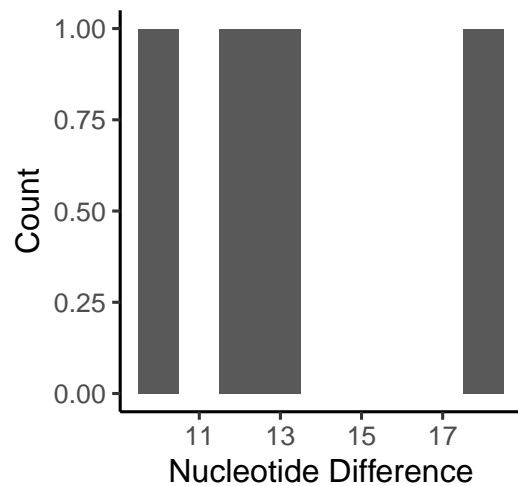
IGHV1/OR15–2*02_03

9 sequences assigned
No exact matches.



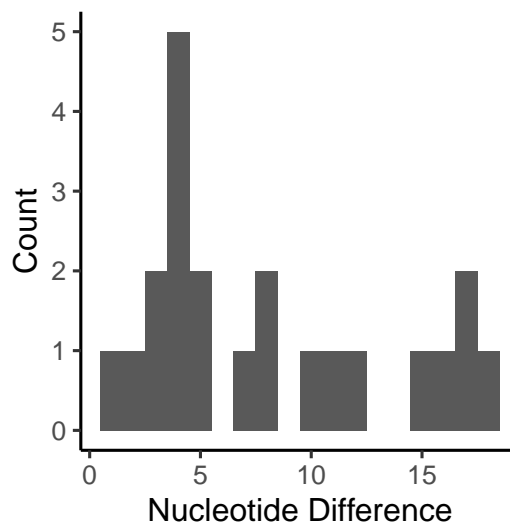
IGHV1/OR15-3*02

4 sequences assigned
No exact matches.



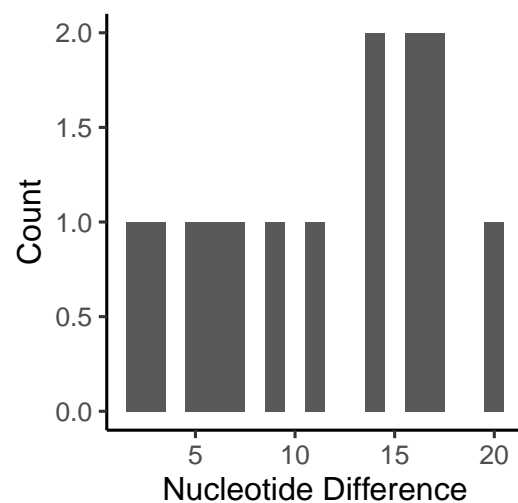
IGHV4/OR15-8*01

50 sequences assigned
No exact matches.



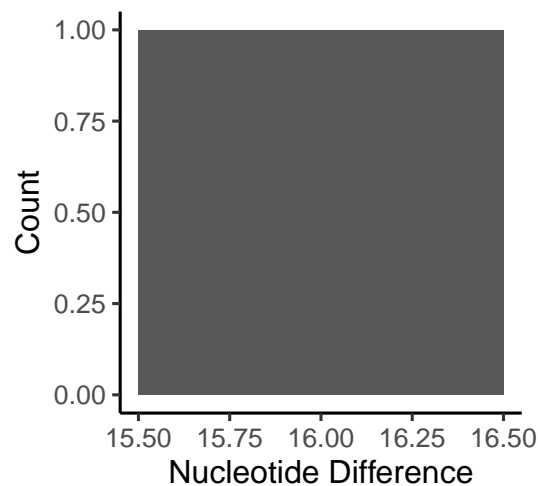
IGHV5-51*06

18 sequences assigned
No exact matches.



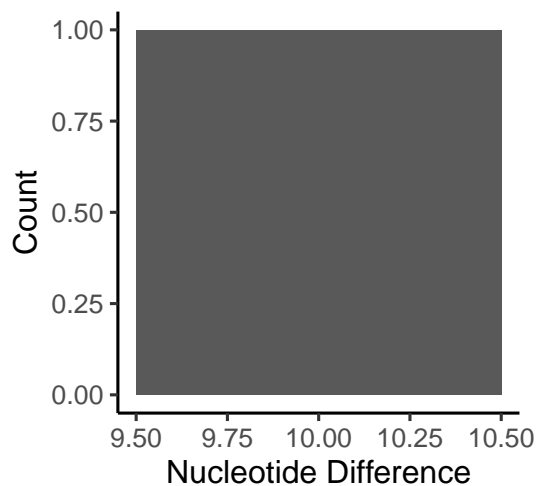
IGHV1/OR15-3*03

1 sequences assigned
No exact matches.



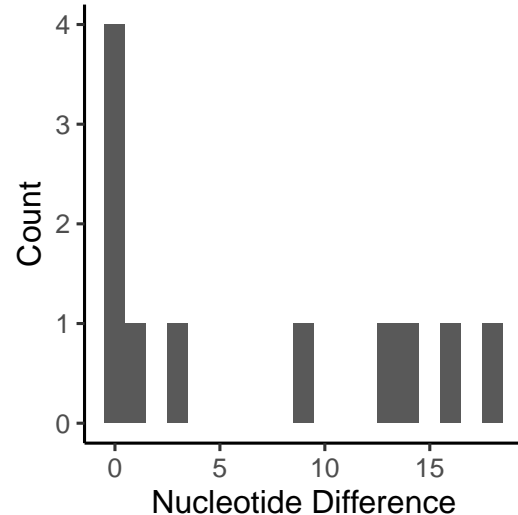
IGHV5-10-1*01_03

1 sequences assigned
No exact matches.



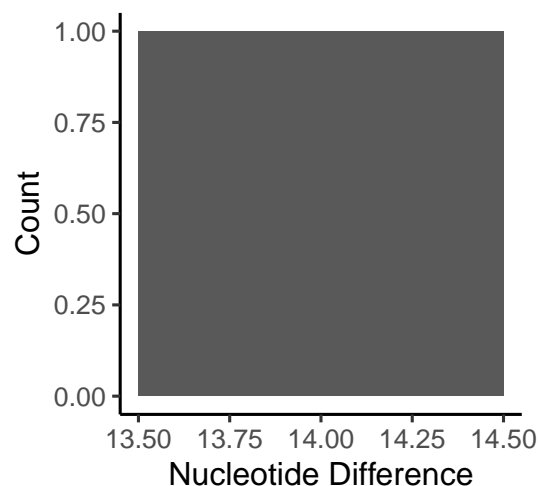
IGHV5-51*07

12 sequences assigned
4 (33.3%) exact matches, in which:
4 unique CDR3
2 unique J



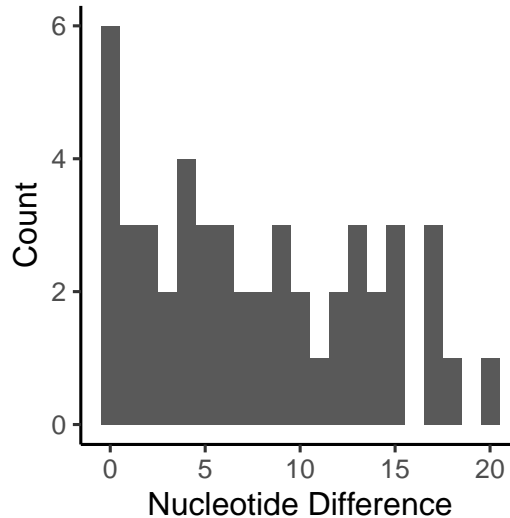
IGHV1/OR15-4*01

1 sequences assigned
No exact matches.



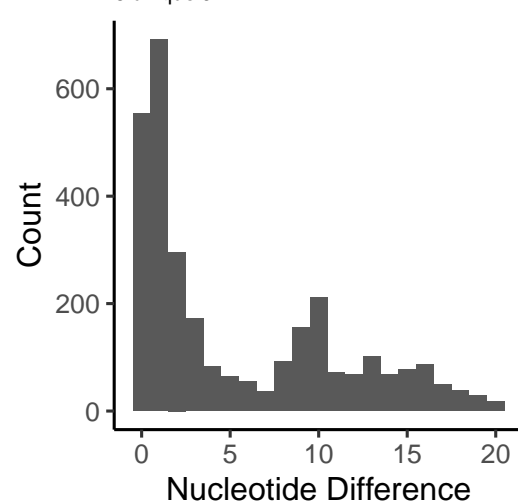
IGHV5-51*04

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



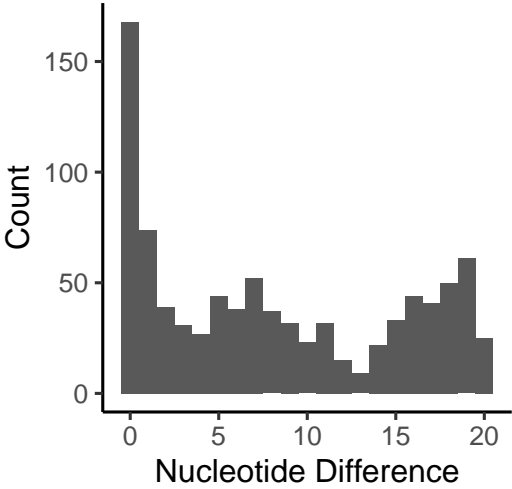
IGHV6-1*01_02

3282 sequences assigned
554 (16.9%) exact matches, in which:
406 unique CDR3
6 unique J



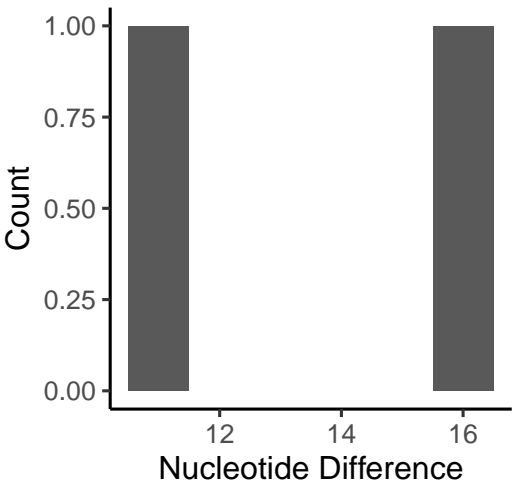
IGHV6-1*01_02_A315G

1033 sequences assigned
168 (16.3%) exact matches, in which:
160 unique CDR3
5 unique J



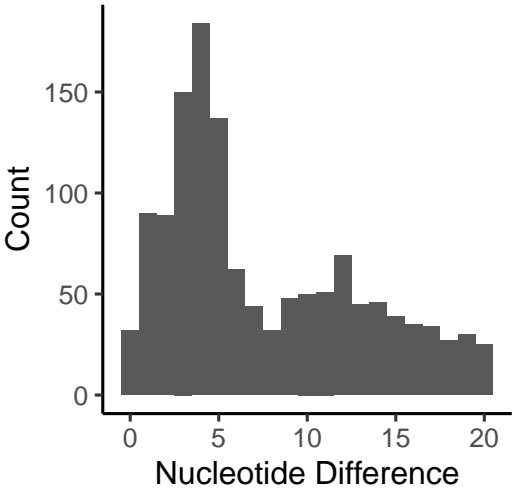
IGHV3/OR16-13*01

2 sequences assigned
No exact matches.



IGHV7-4-1*02

1632 sequences assigned
32 (2%) exact matches, in which:
31 unique CDR3
4 unique J



IGHV6-1*01_02_A315G

