

Gene IGHV1-8*01_C90G_C177G_A241G_G284C



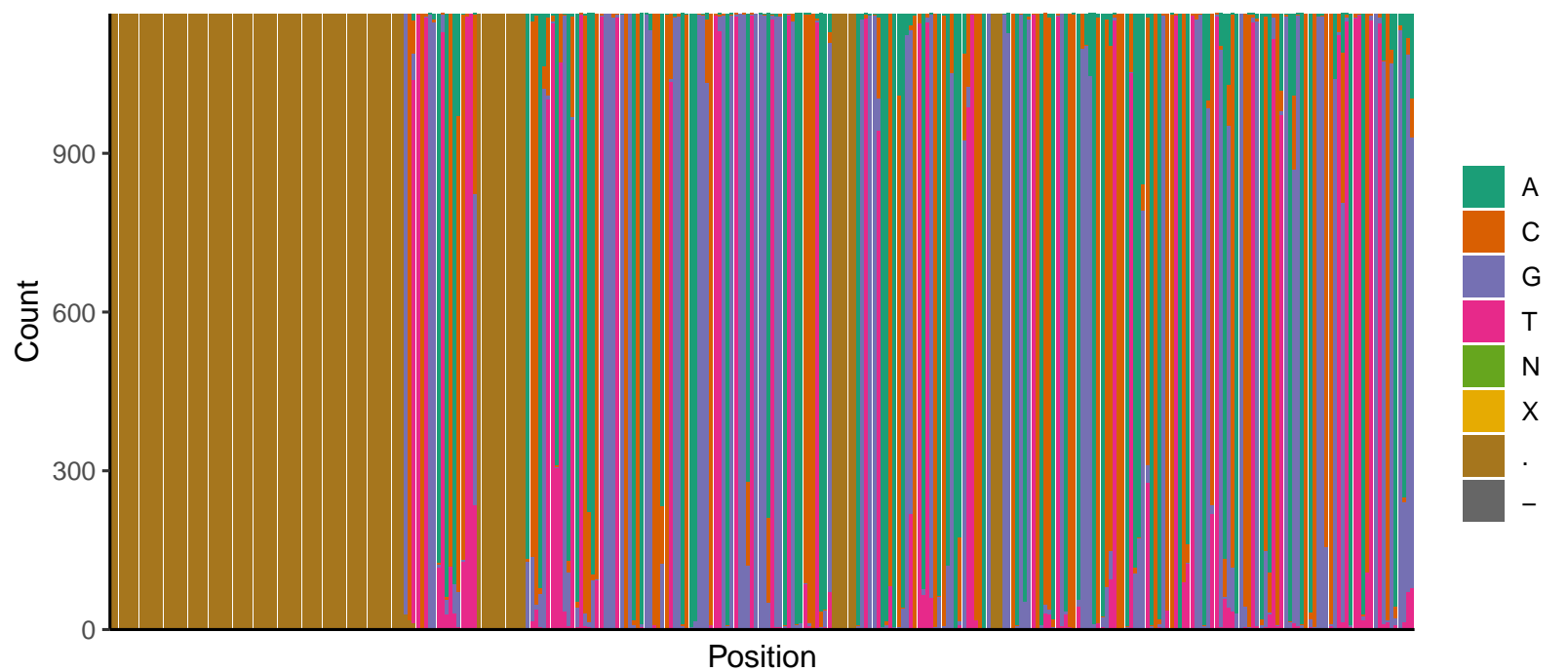
Gene IGHV3-20*03_04_G119C_C120T_C134T_G141A_T160G_A169G_T186C_T189C_



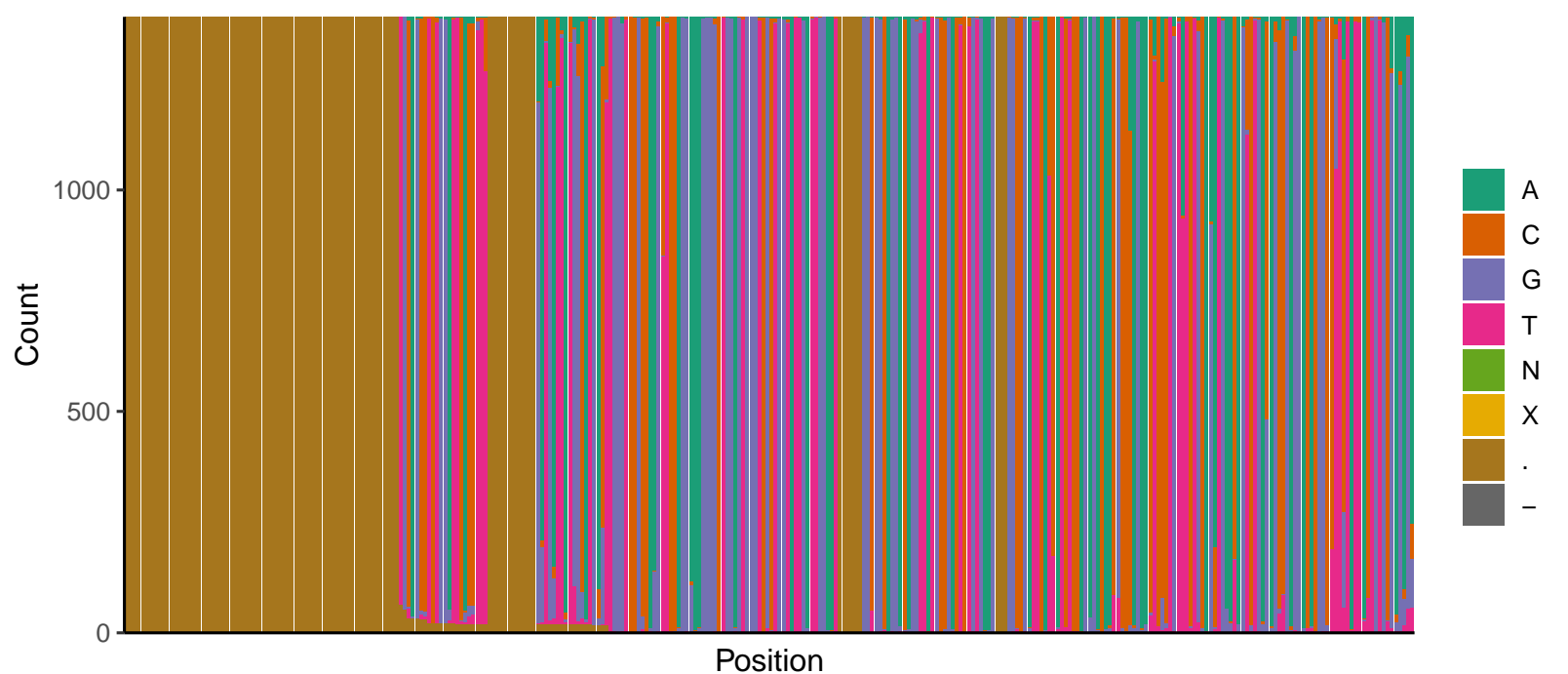
Gene IGHV6-1*01_02_A315G



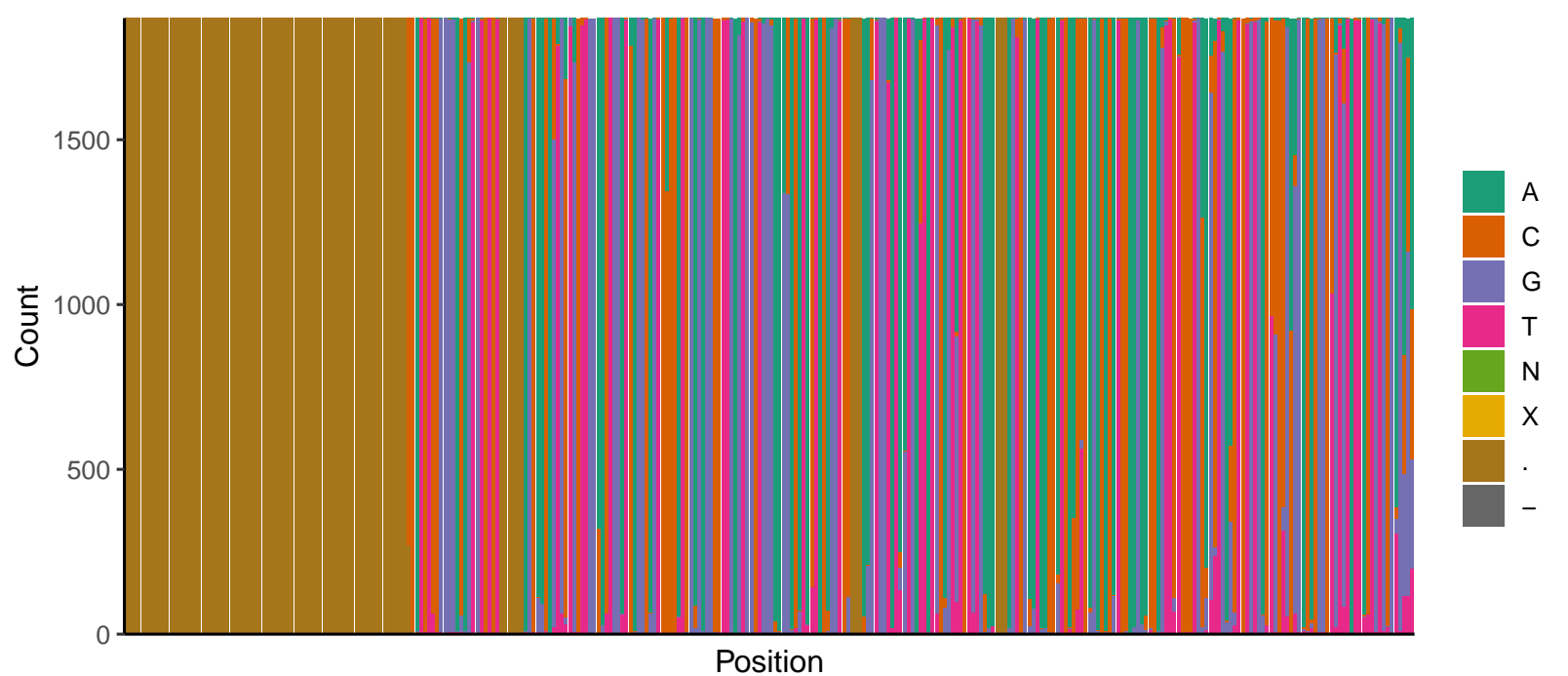
Gene IGHV1-8*01_C90G_C177G_A241G_G284C



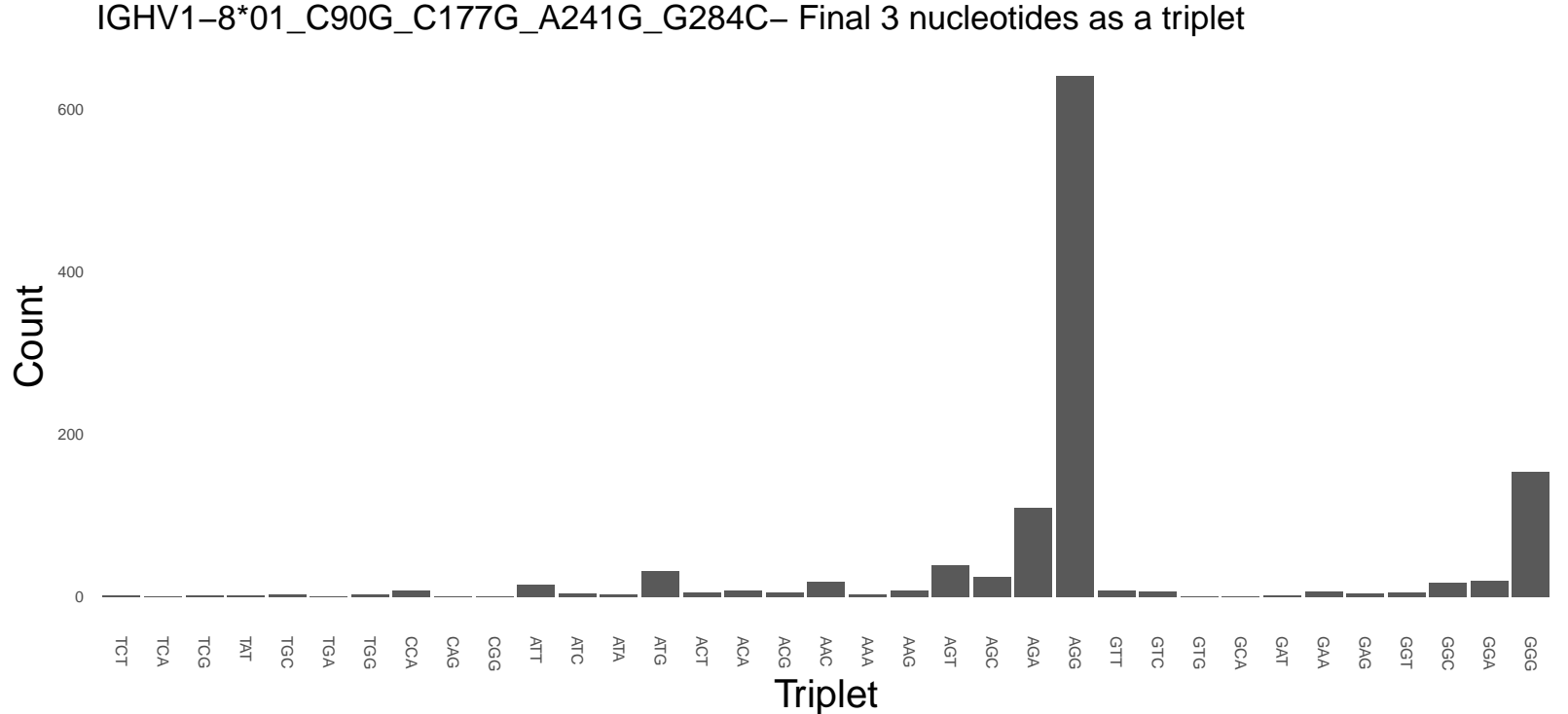
Gene IGHV3-20*03_04_G119C_C120T_C134T_G141A_T160G_A169G_T186C_T189C



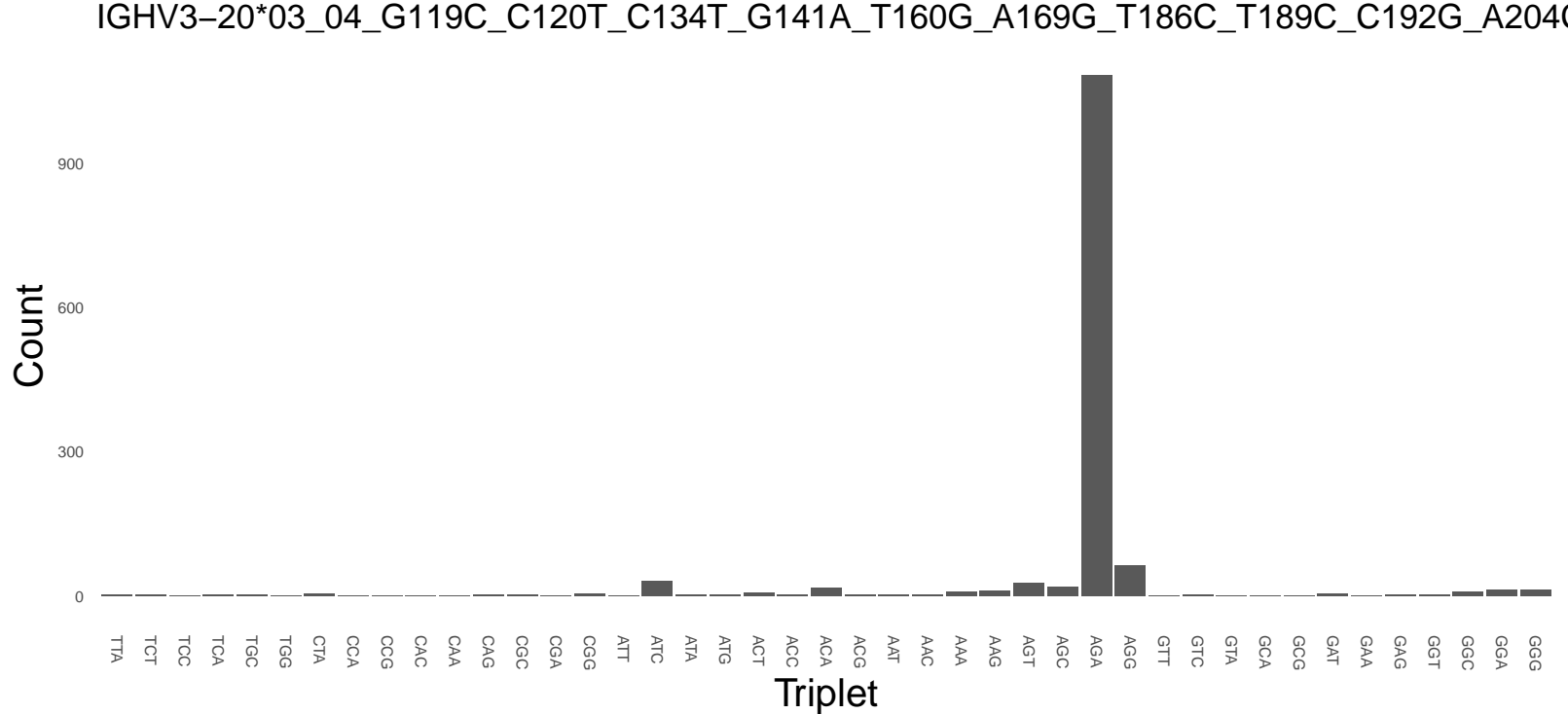
Gene IGHV6-1*01_02_A315G



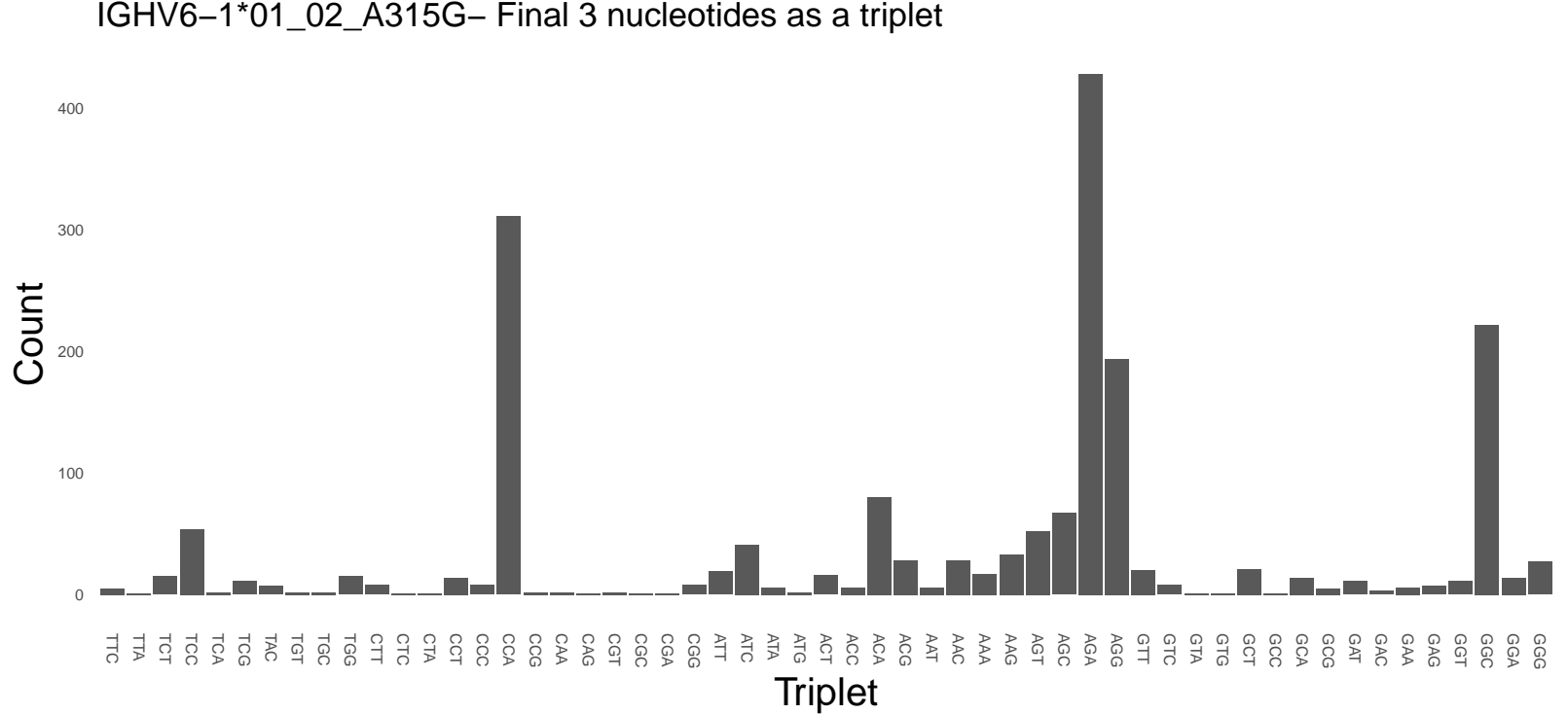
IGHV1-8*01_C90G_C177G_A241G_G284C- Final 3 nucleotides as a triplet



IGHV3-20*03_04_G119C_C120T_C134T_G141A_T160G_A169G_T186C_T189C_C192G_A204G- Final 3 nucleotides as a triplet

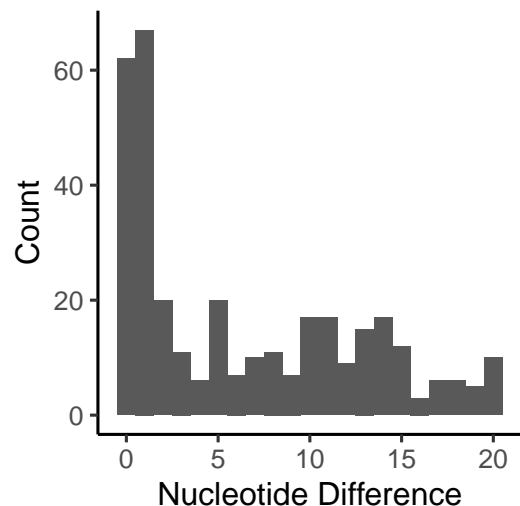


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



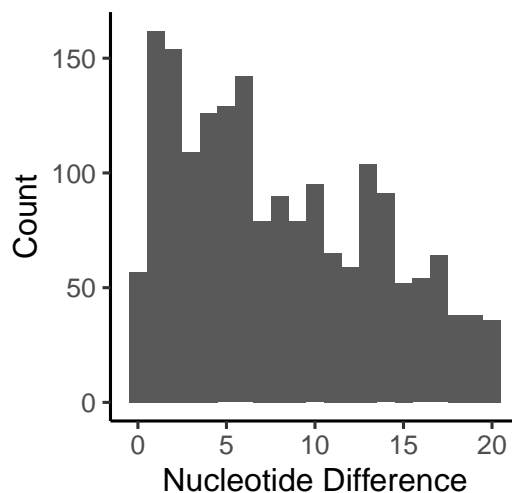
IGHV1-2*04

360 sequences assigned
62 (17.2%) exact matches, in which:
51 unique CDR3
4 unique J



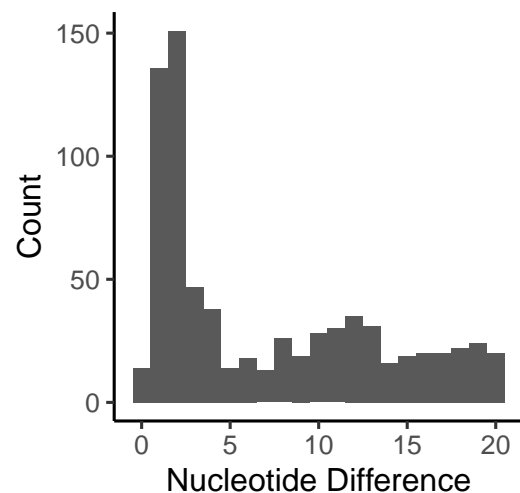
IGHV1-8*01

2142 sequences assigned
57 (2.7%) exact matches, in which:
40 unique CDR3
5 unique J



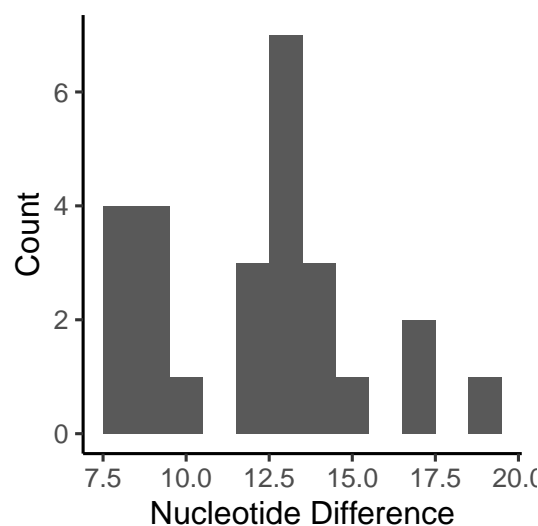
IGHV1-18*04

907 sequences assigned
14 (1.5%) exact matches, in which:
13 unique CDR3
4 unique J



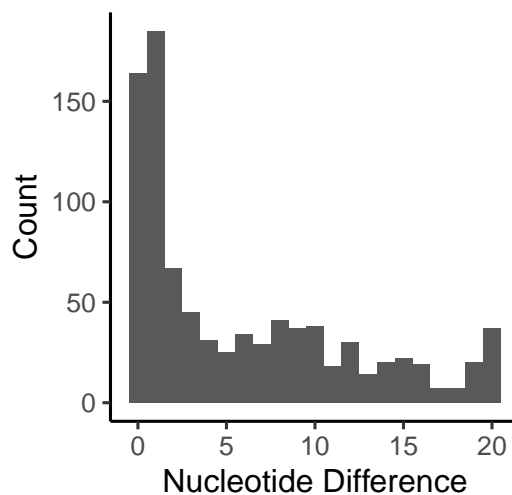
IGHV1-3*04

34 sequences assigned
No exact matches.



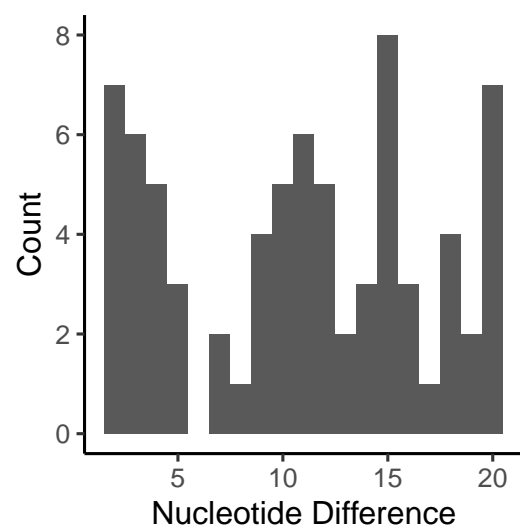
IGHV1-8*01_C90G_C177G

1164 sequences assigned
164 (14.1%) exact matches, in which:
125 unique CDR3
6 unique J



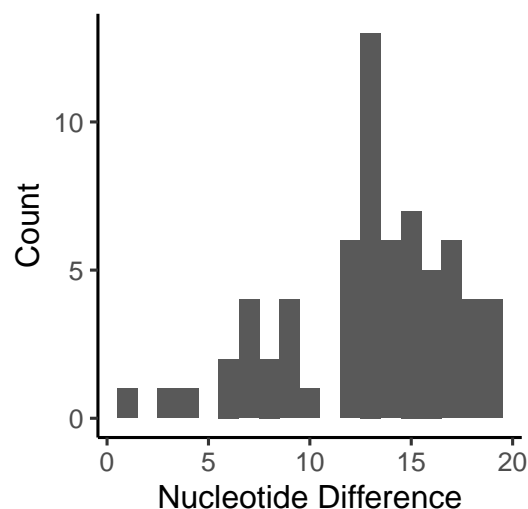
IGHV1-24*01

135 sequences assigned
No exact matches.



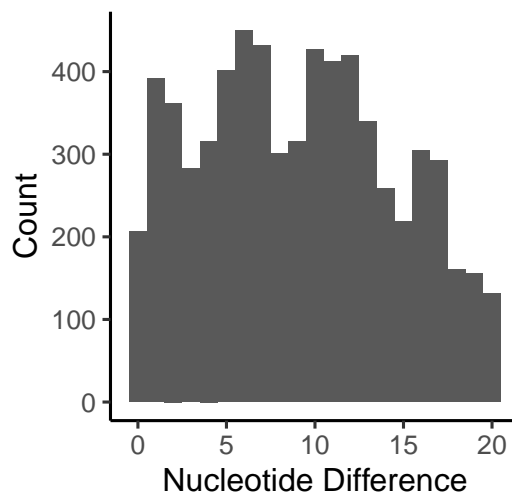
IGHV1-3*01_05

81 sequences assigned
No exact matches.



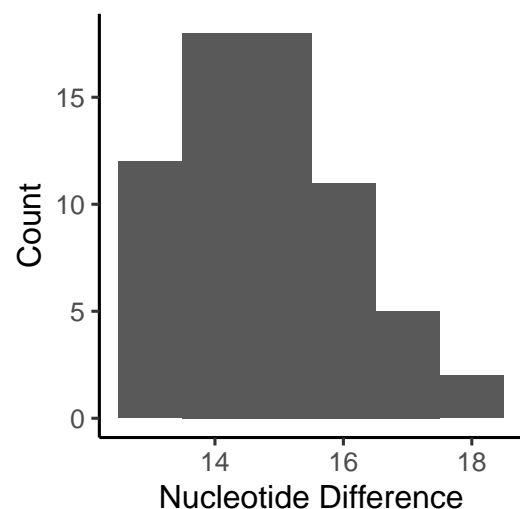
IGHV1-18*01

6985 sequences assigned
207 (3%) exact matches, in which:
136 unique CDR3
4 unique J



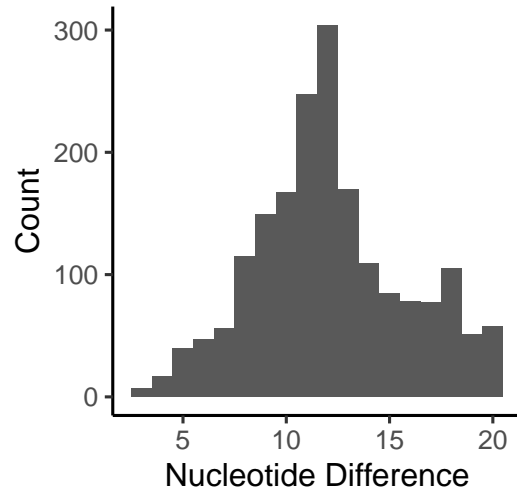
IGHV1-45*02

91 sequences assigned
No exact matches.



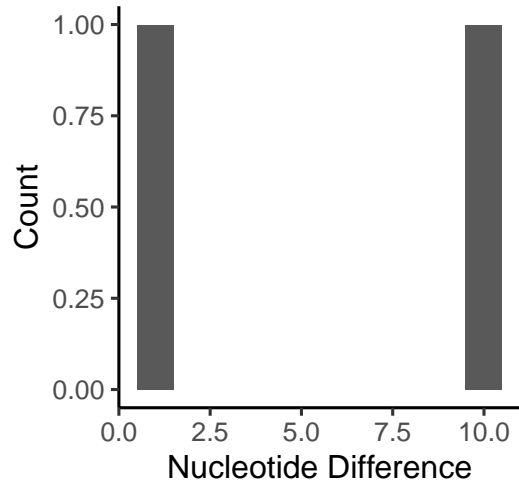
IGHV1-46*01

2193 sequences assigned
No exact matches.



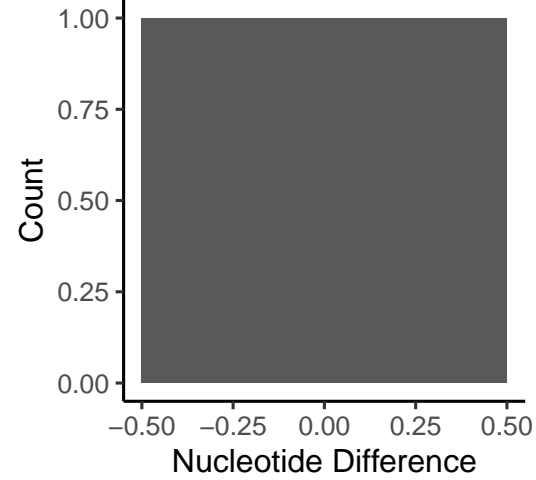
IGHV2-5*01

3 sequences assigned
No exact matches.



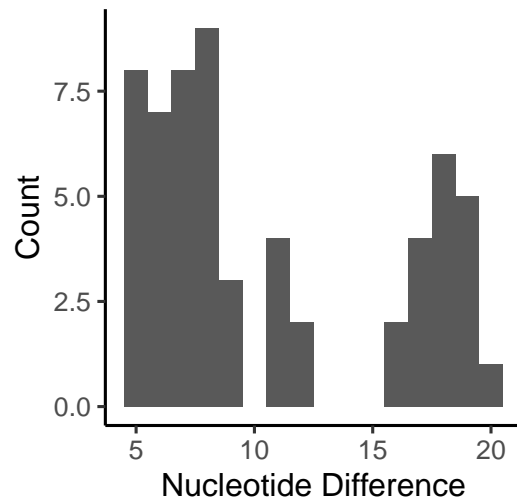
IGHV2-70*01

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



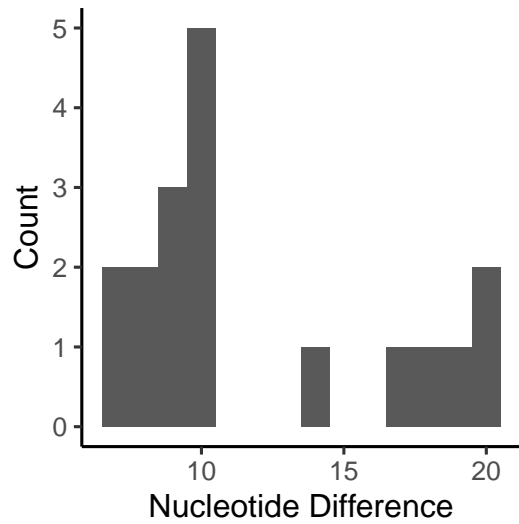
IGHV1-58*01_03

59 sequences assigned
No exact matches.



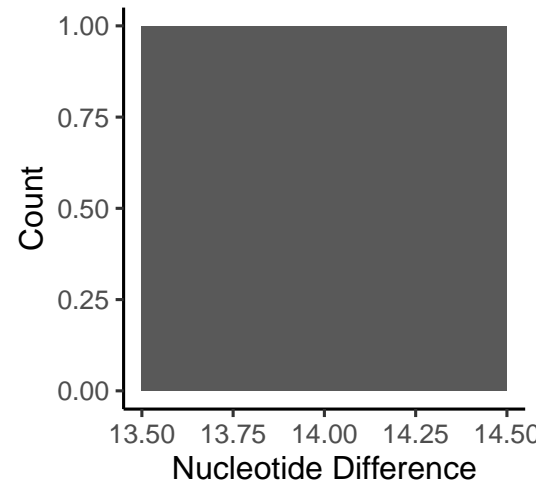
IGHV2-5*02

20 sequences assigned
No exact matches.



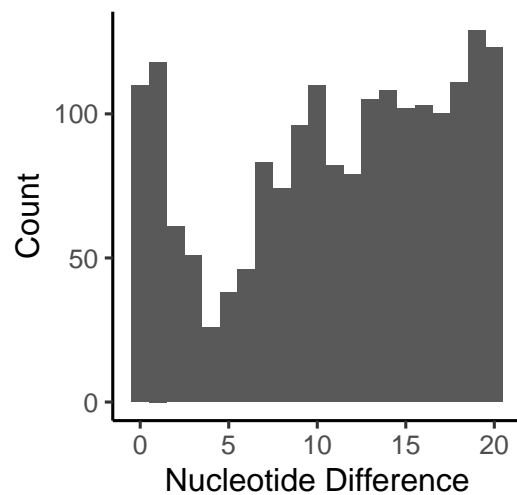
IGHV2-70*13

1 sequences assigned
No exact matches.



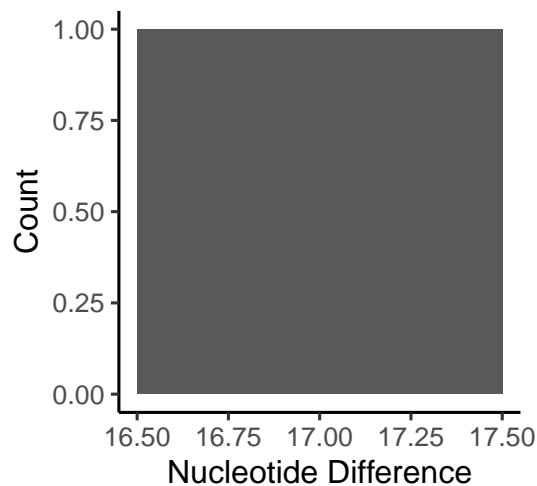
IGHV1-69*01_12_13

3022 sequences assigned
110 (3.6%) exact matches, in which:
77 unique CDR3
5 unique J



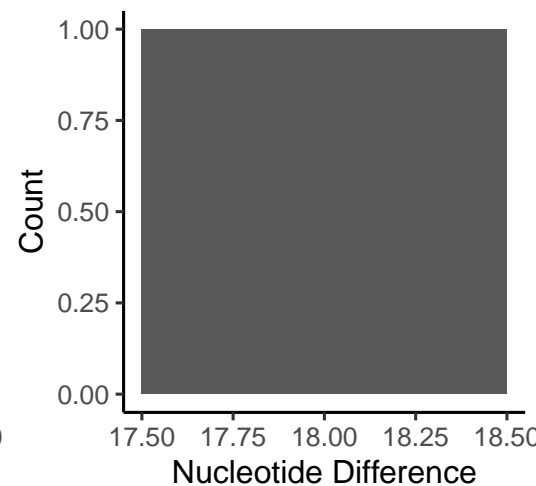
IGHV2-26*03

1 sequences assigned
No exact matches.



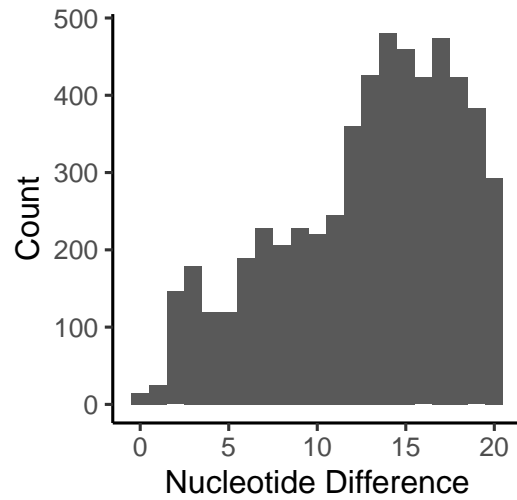
IGHV2-70*19

1 sequences assigned
No exact matches.



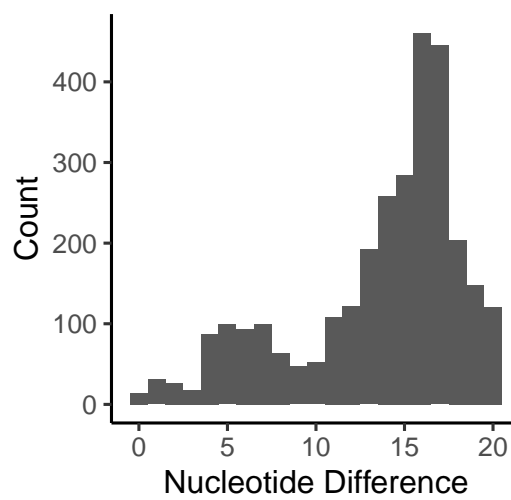
IGHV3-7*01

6519 sequences assigned
15 (0.2%) exact matches, in which:
14 unique CDR3
2 unique J



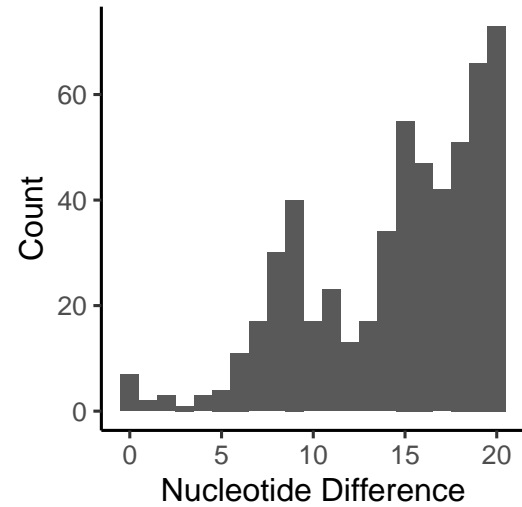
IGHV3-11*01

3293 sequences assigned
14 (0.4%) exact matches, in which:
13 unique CDR3
4 unique J



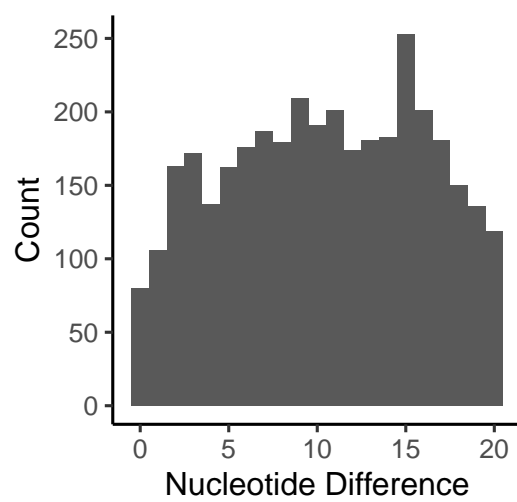
IGHV3-15*07

1169 sequences assigned
7 (0.6%) exact matches, in which:
4 unique CDR3
0 unique J



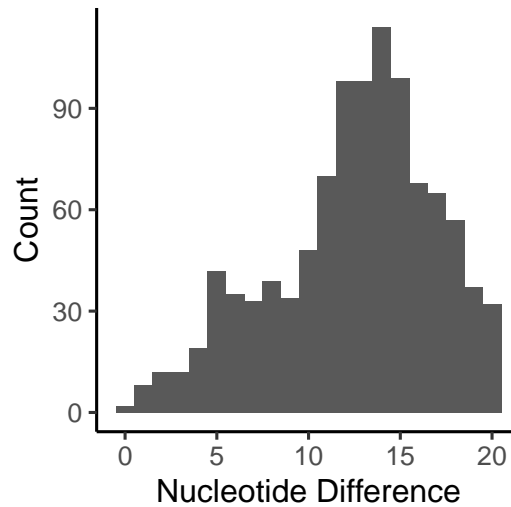
IGHV3-7*03

3926 sequences assigned
80 (2%) exact matches, in which:
57 unique CDR3
6 unique J



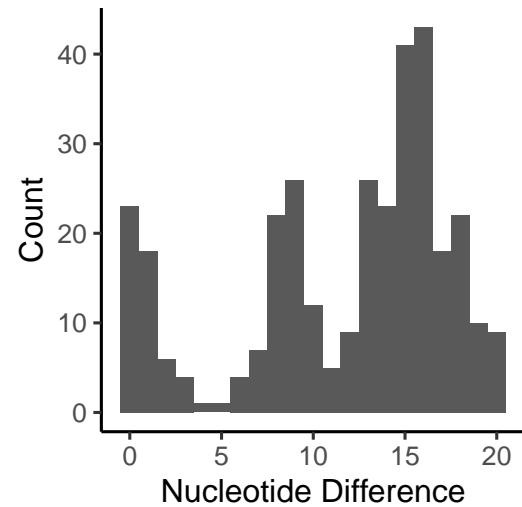
IGHV3-11*04

1167 sequences assigned
2 (0.2%) exact matches, in which:
2 unique CDR3
1 unique J



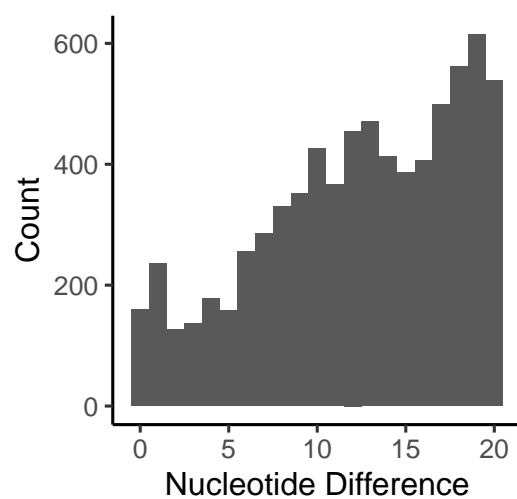
IGHV3-15*01_02

428 sequences assigned
23 (5.4%) exact matches, in which:
13 unique CDR3
3 unique J



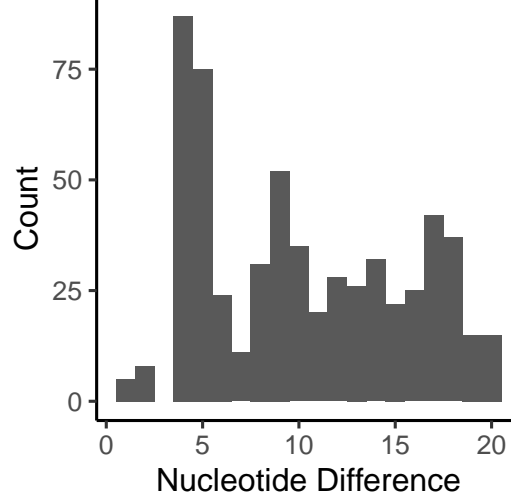
IGHV3-9*01

9070 sequences assigned
160 (1.8%) exact matches, in which:
113 unique CDR3
6 unique J



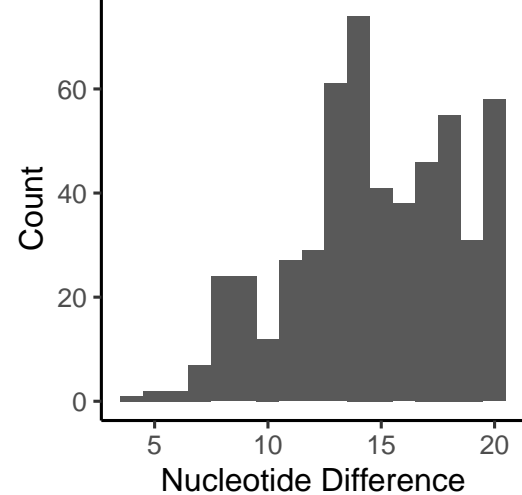
IGHV3-13*01

742 sequences assigned
No exact matches.



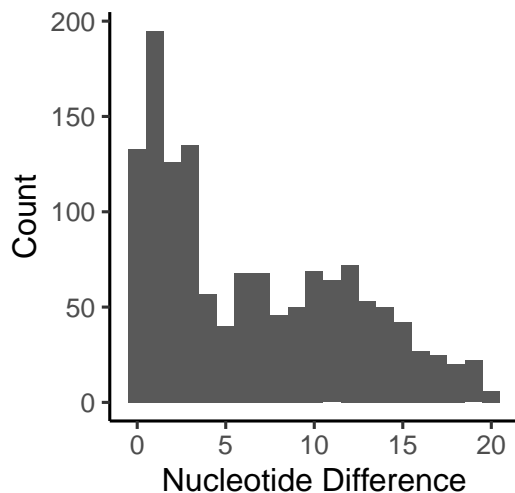
IGHV3-20*03_04

833 sequences assigned
No exact matches.



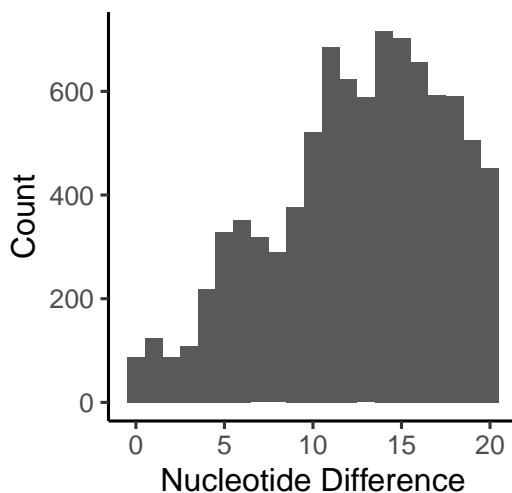
IGHV3-20*03_04_G119C

1391 sequences assigned
133 (9.6%) exact matches, in which:
67 unique CDR3
5 unique J



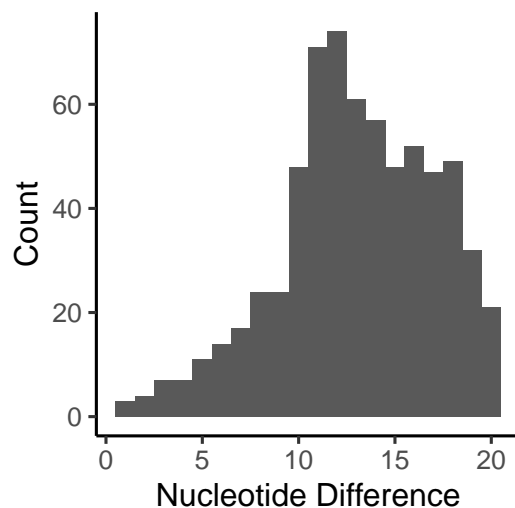
IGHV3-23*01_04

10813 sequences assigned
88 (0.8%) exact matches, in which:
66 unique CDR3
6 unique J



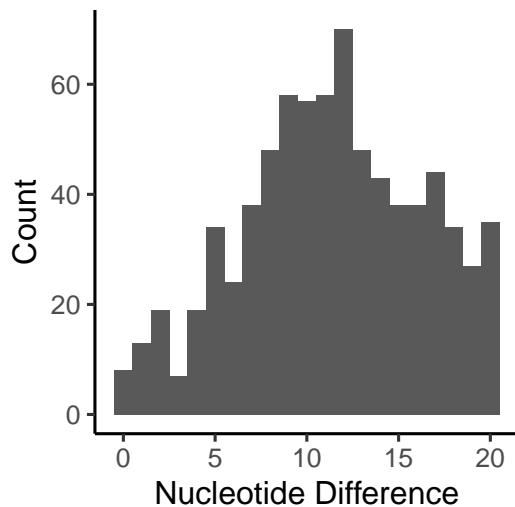
IGHV3-30*07

775 sequences assigned
No exact matches.



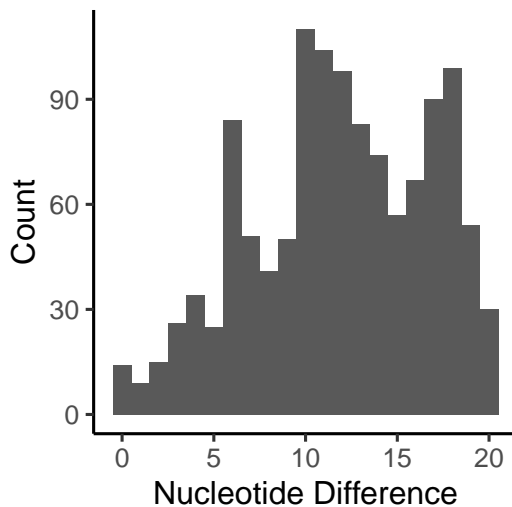
IGHV3-21*04

1004 sequences assigned
8 (0.8%) exact matches, in which:
8 unique CDR3
2 unique J



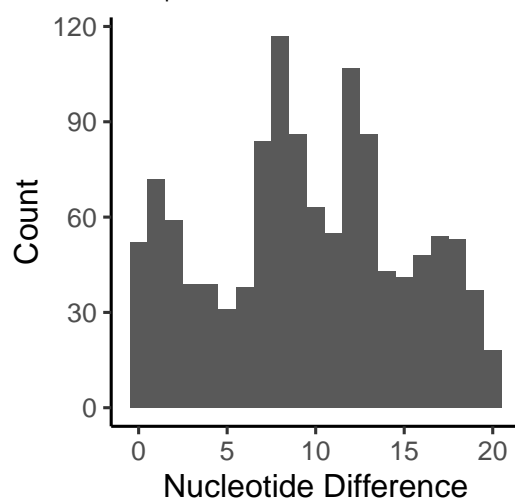
IGHV3-30*01

1383 sequences assigned
14 (1%) exact matches, in which:
12 unique CDR3
3 unique J



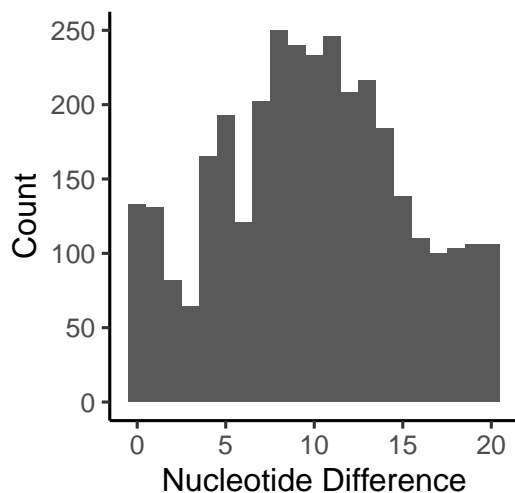
IGHV3-33*01

1536 sequences assigned
52 (3.4%) exact matches, in which:
34 unique CDR3
5 unique J



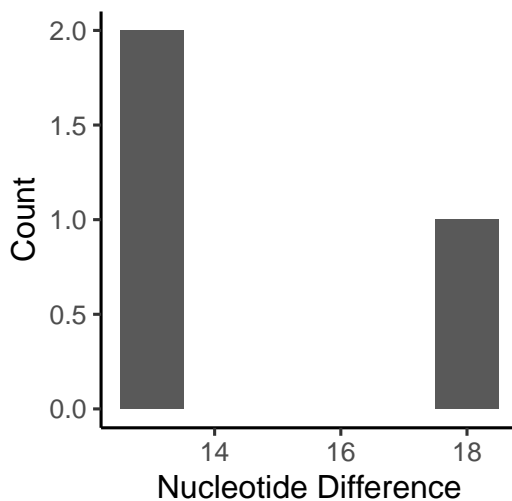
IGHV3-21*01_02

4023 sequences assigned
133 (3.3%) exact matches, in which:
99 unique CDR3
6 unique J



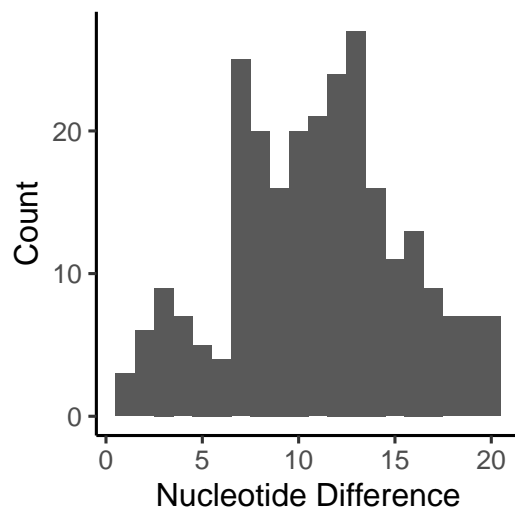
IGHV3-30-3*01

13 sequences assigned
No exact matches.



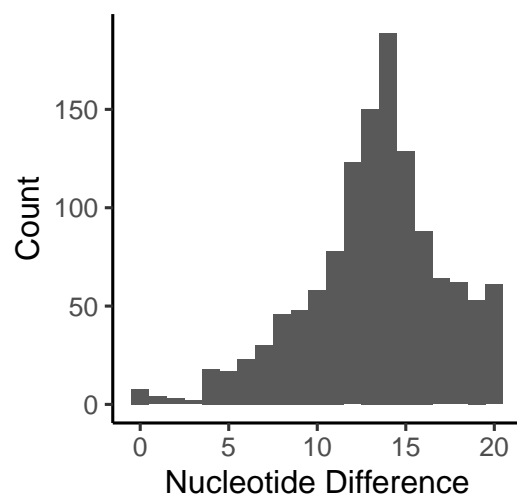
IGHV3-33*06

302 sequences assigned
No exact matches.



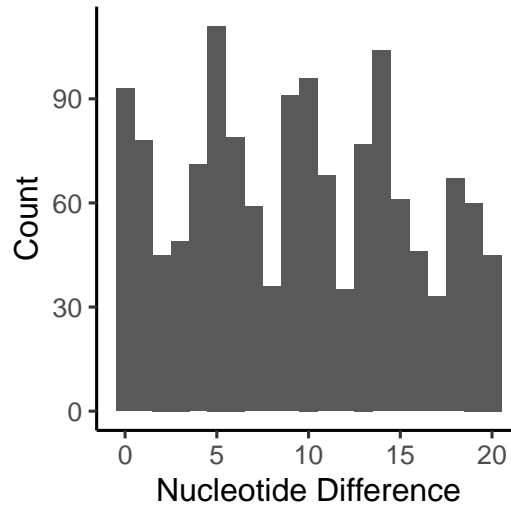
IGHV3–33*08

1548 sequences assigned
8 (0.5%) exact matches, in which:
8 unique CDR3
2 unique J



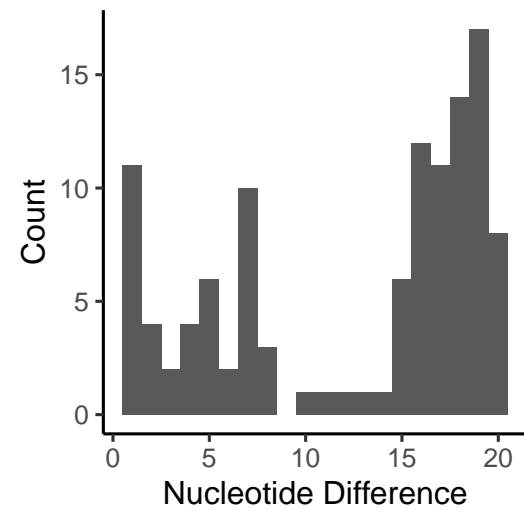
IGHV3–48*02

1478 sequences assigned
93 (6.3%) exact matches, in which:
58 unique CDR3
5 unique J



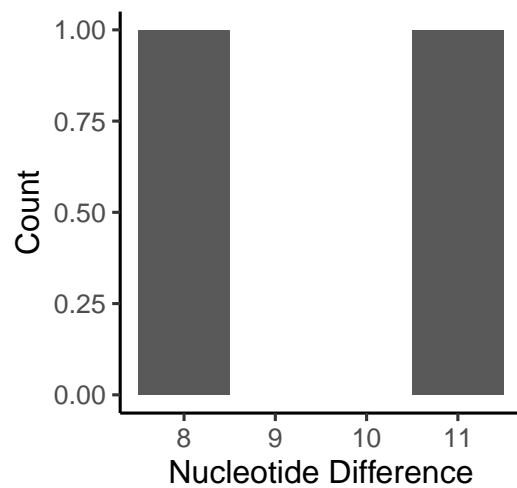
IGHV3–49*03_05

145 sequences assigned
No exact matches.



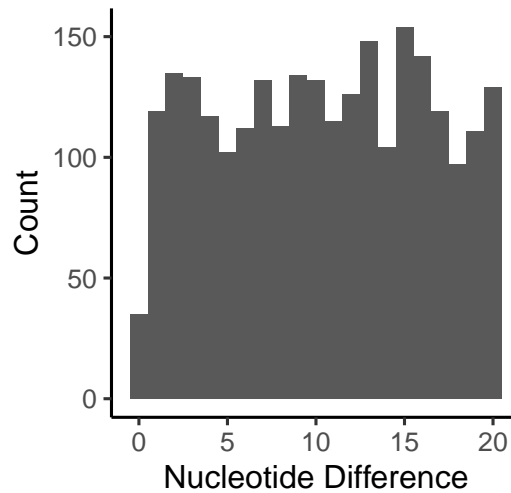
IGHV3–43*01

2 sequences assigned
No exact matches.



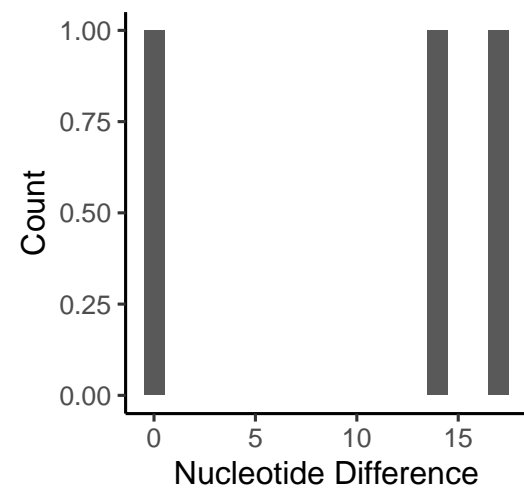
IGHV3–48*03

3877 sequences assigned
35 (0.9%) exact matches, in which:
22 unique CDR3
5 unique J



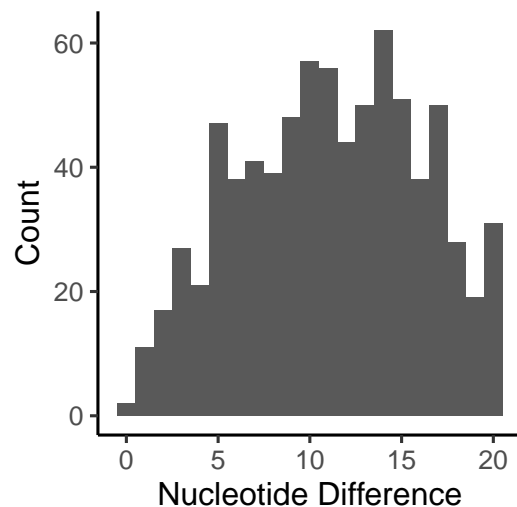
IGHV3–52*01_03

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



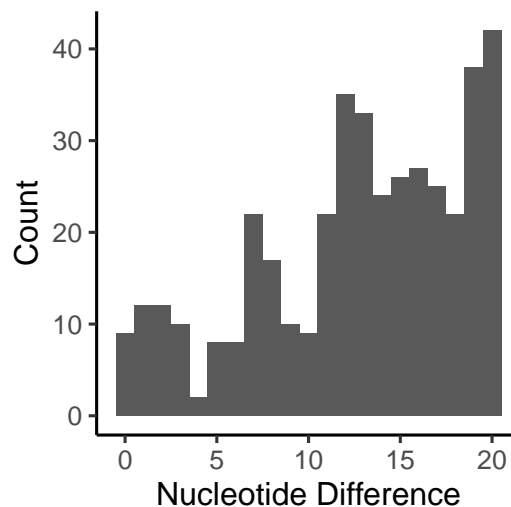
IGHV3–48*01

862 sequences assigned
2 (0.2%) exact matches, in which:
2 unique CDR3
2 unique J



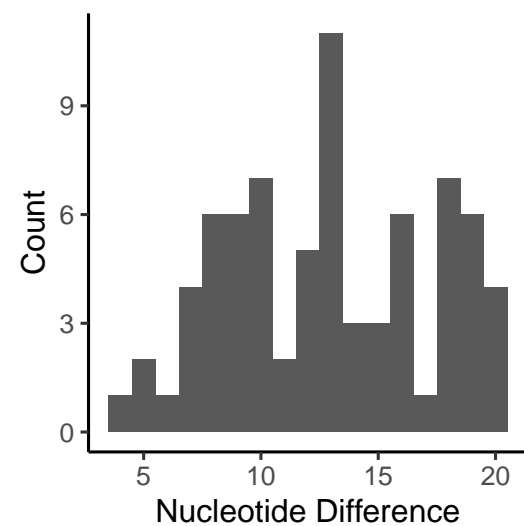
IGHV3–49*04

517 sequences assigned
9 (1.7%) exact matches, in which:
5 unique CDR3
1 unique J



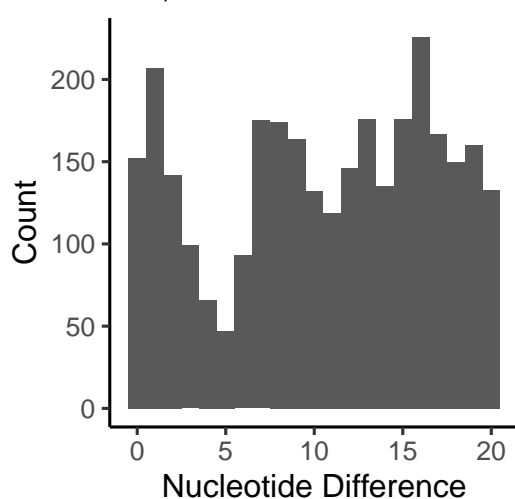
IGHV3–53*05

99 sequences assigned
No exact matches.



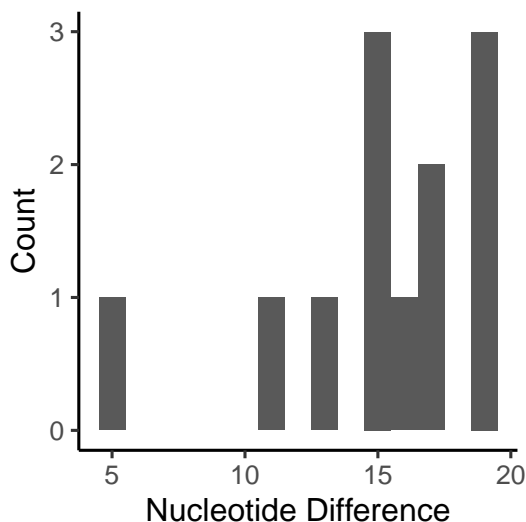
IGHV3–53*01_02

3673 sequences assigned
152 (4.1%) exact matches, in which:
98 unique CDR3
6 unique J



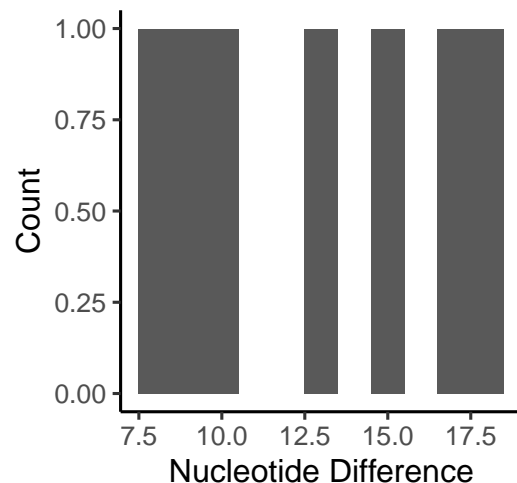
IGHV3–66*02

17 sequences assigned
No exact matches.



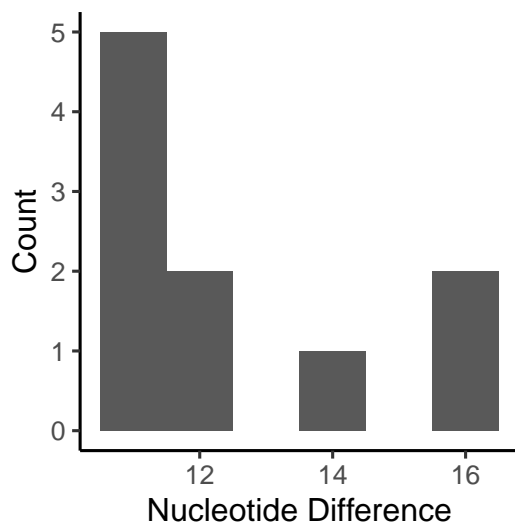
IGHV3–69–1*01

13 sequences assigned
No exact matches.



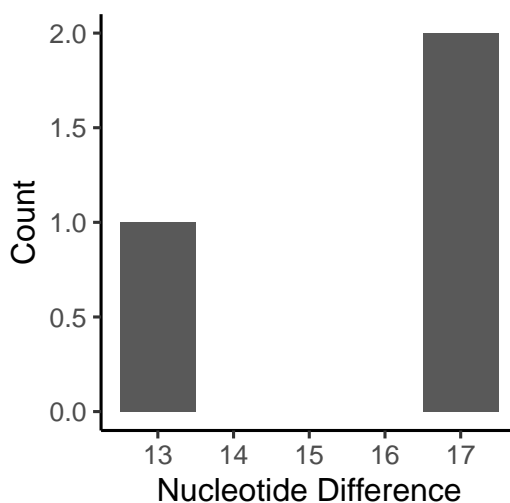
IGHV3–64*02_07

11 sequences assigned
No exact matches.



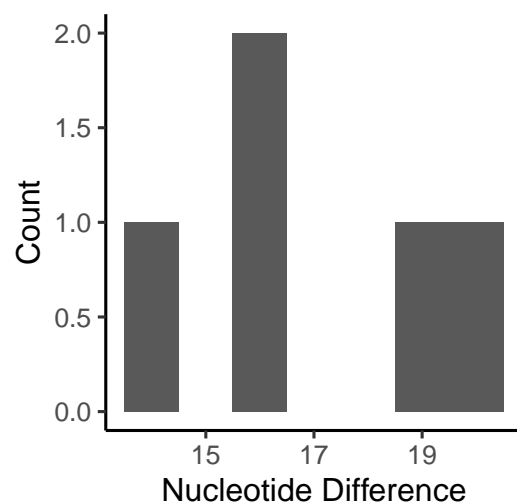
IGHV3–66*03

3 sequences assigned
No exact matches.



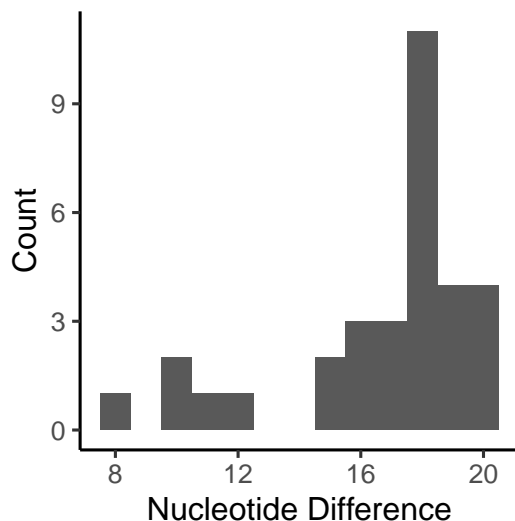
IGHV3–69–1*02

10 sequences assigned
No exact matches.



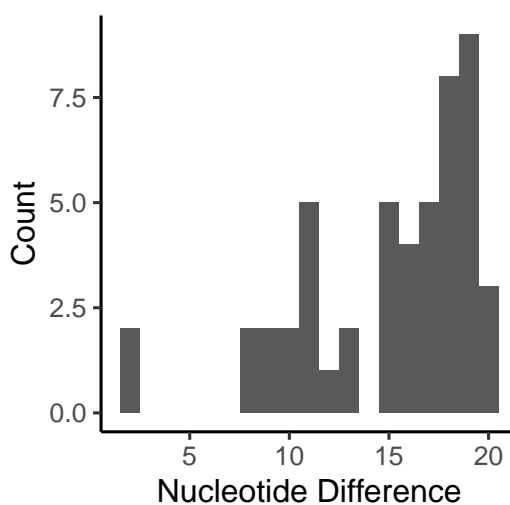
IGHV3–66*01

58 sequences assigned
No exact matches.



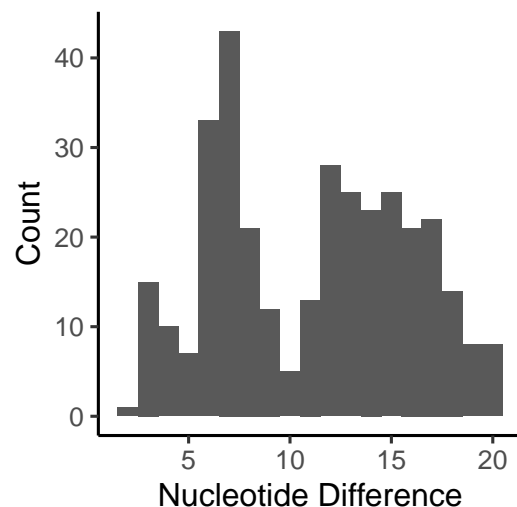
IGHV3–66*04

73 sequences assigned
No exact matches.



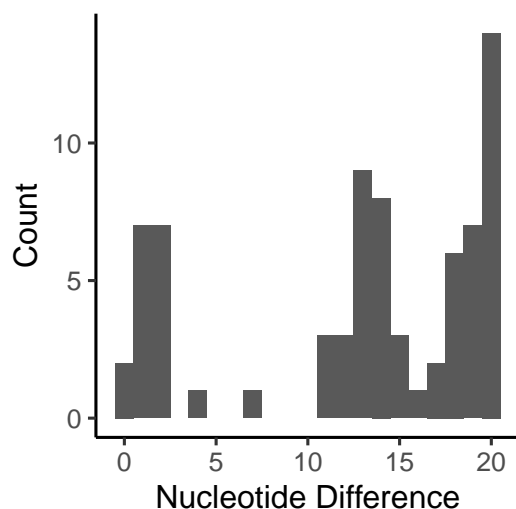
IGHV3–72*01

376 sequences assigned
No exact matches.



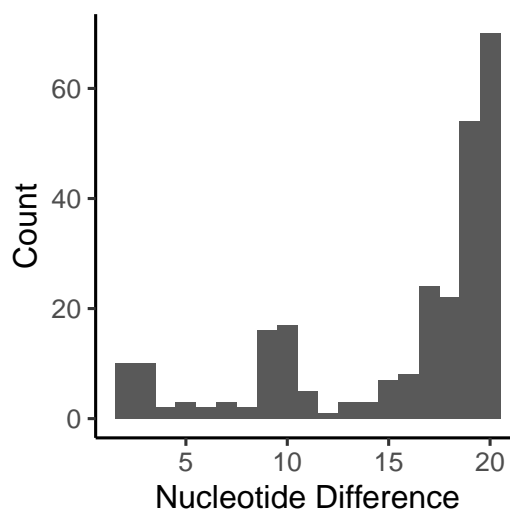
IGHV3-73*01_02

142 sequences assigned
2 (1.4%) exact matches, in which:
1 unique CDR3
1 unique J



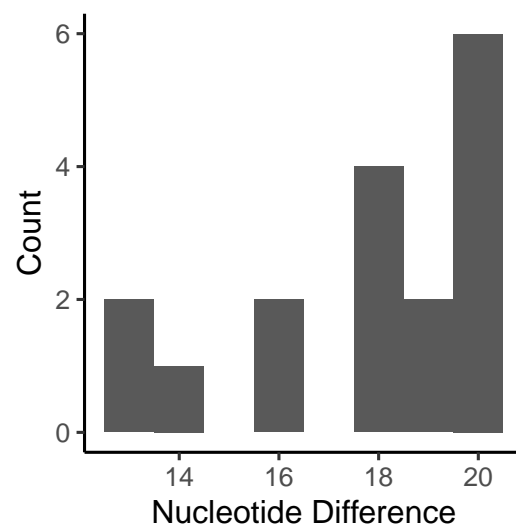
IGHV3-43D*04

508 sequences assigned
No exact matches.



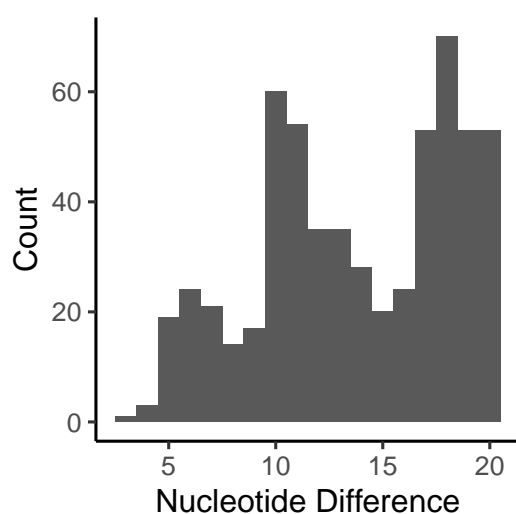
IGHV4-28*03

338 sequences assigned
No exact matches.



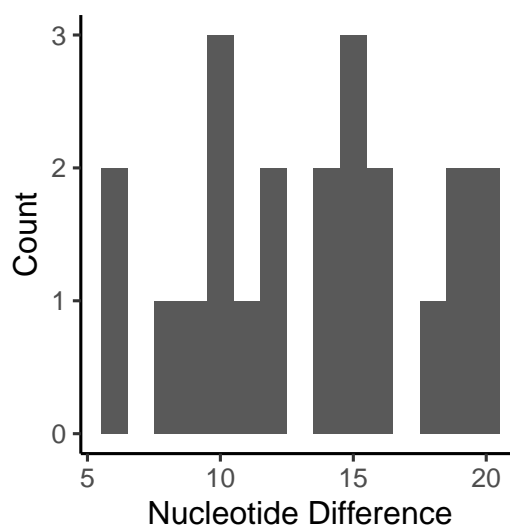
IGHV3-74*03

886 sequences assigned
No exact matches.



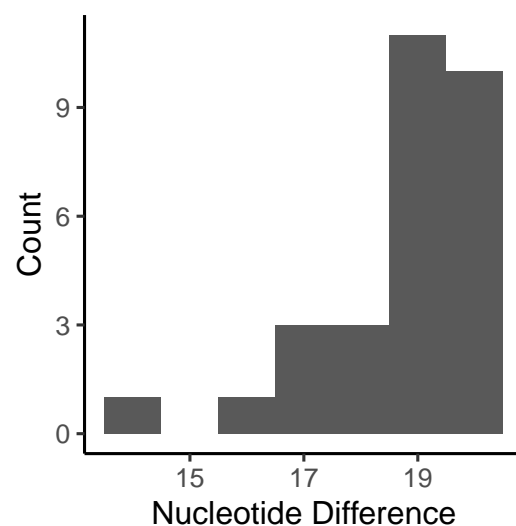
IGHV3-NL1*01

35 sequences assigned
No exact matches.



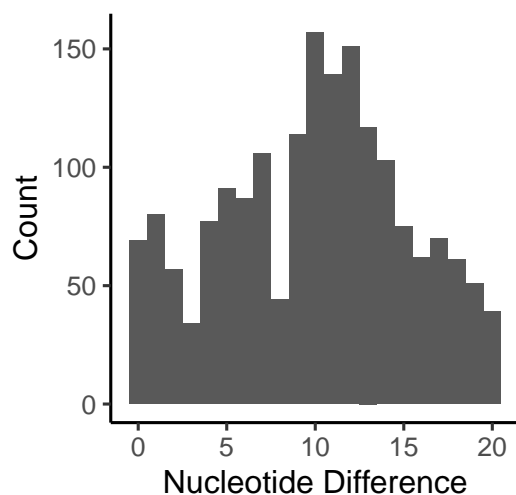
IGHV4-28*06

101 sequences assigned
No exact matches.



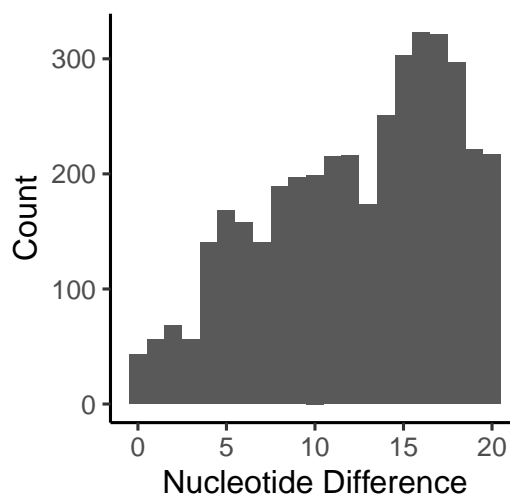
IGHV3-74*01_02

1979 sequences assigned
69 (3.5%) exact matches, in which:
44 unique CDR3
5 unique J



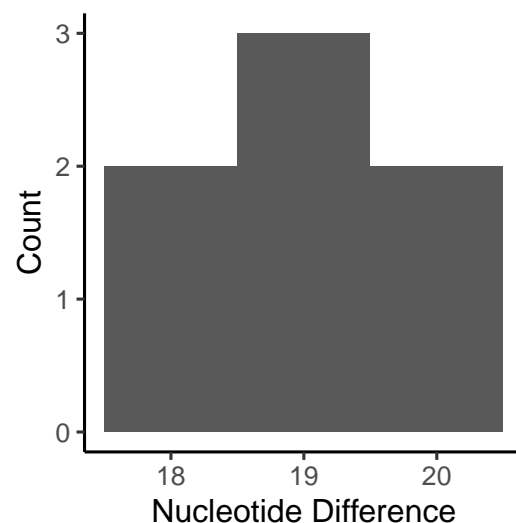
IGHV4-4*02_03

5007 sequences assigned
43 (0.9%) exact matches, in which:
29 unique CDR3
5 unique J



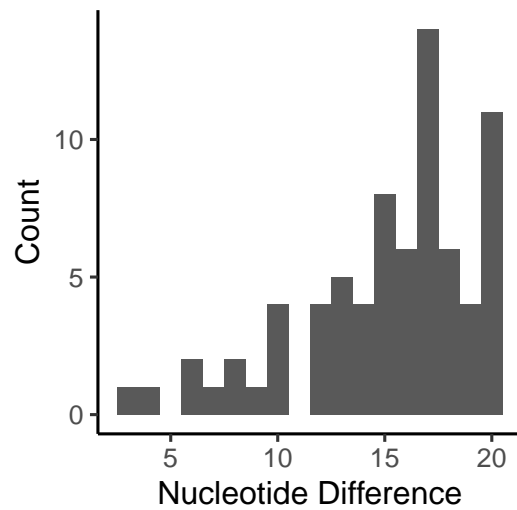
IGHV4-30-4*01

19 sequences assigned
No exact matches.



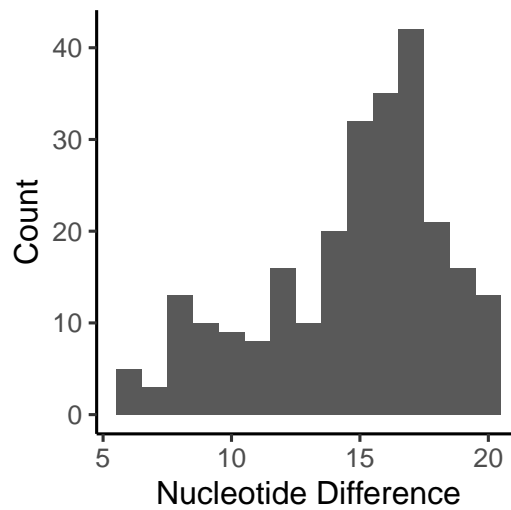
IGHV4-30-2*03

121 sequences assigned
No exact matches.



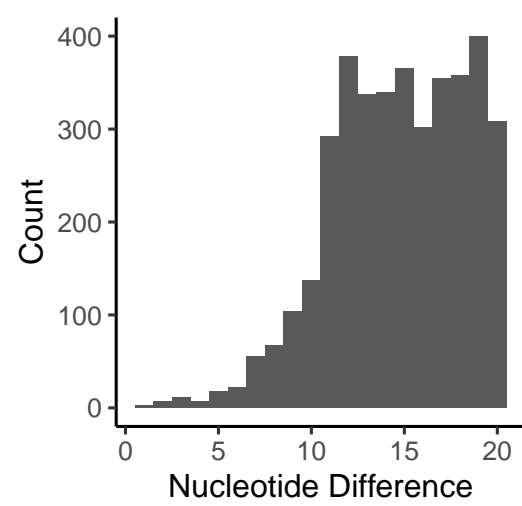
IGHV4-31*02

319 sequences assigned
No exact matches.



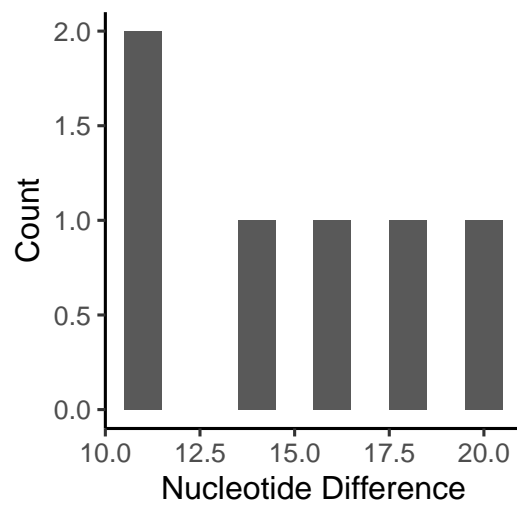
IGHV4-38-2*02

6058 sequences assigned
No exact matches.



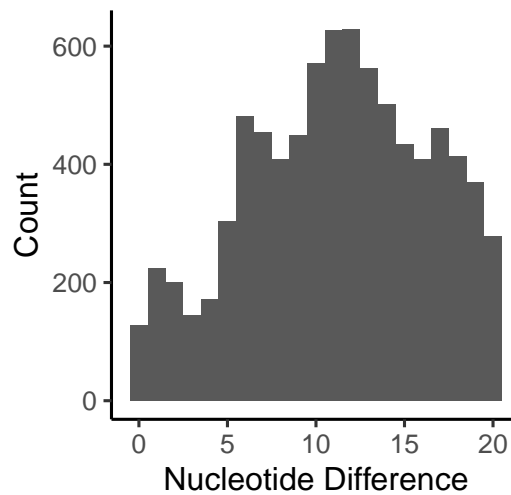
IGHV4-30-4*08

8 sequences assigned
No exact matches.



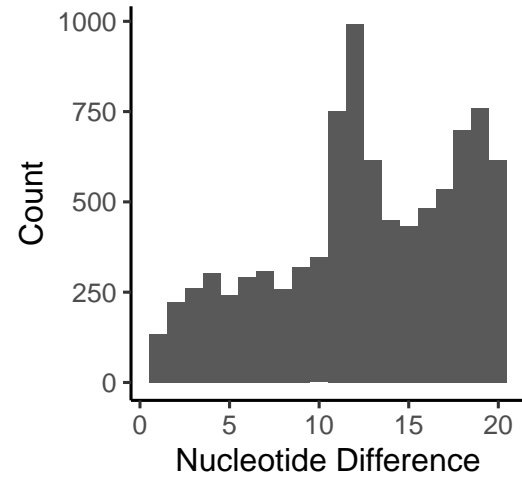
IGHV4-34*01_02

10890 sequences assigned
127 (1.2%) exact matches, in which:
93 unique CDR3
6 unique J



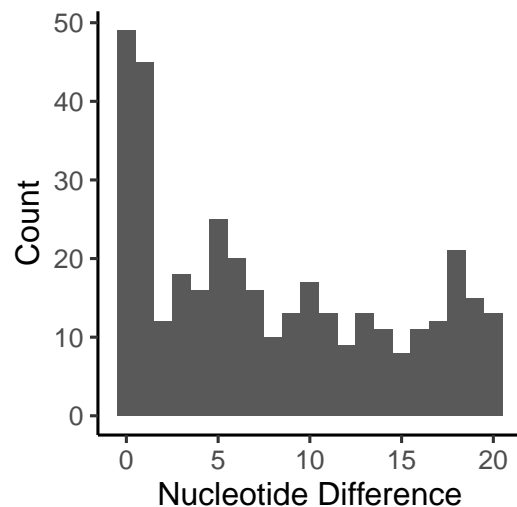
IGHV4-39*02

10793 sequences assigned
No exact matches.



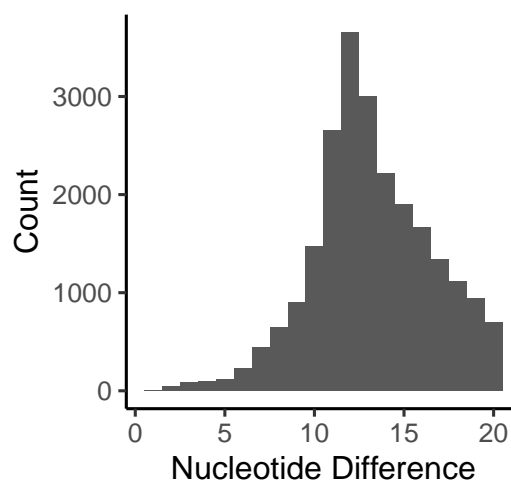
IGHV4-31*01

588 sequences assigned
49 (8.3%) exact matches, in which:
31 unique CDR3
5 unique J



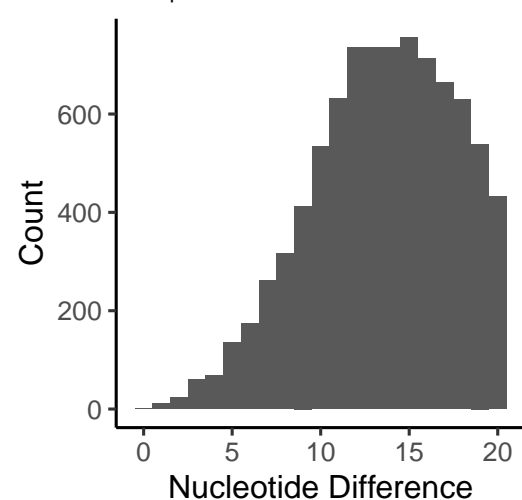
IGHV4-38-2*01

27316 sequences assigned
No exact matches.



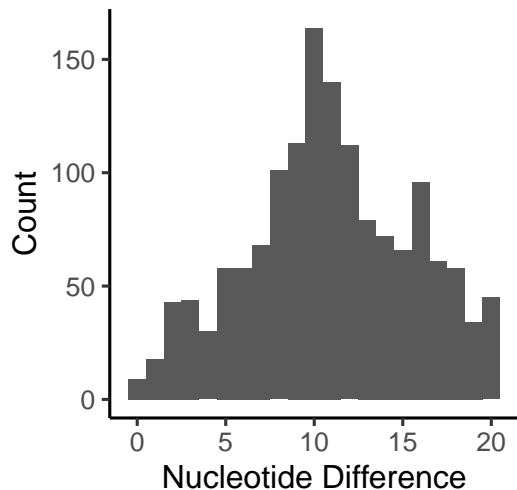
IGHV4-39*07

9948 sequences assigned
2 (0%) exact matches, in which:
2 unique CDR3
2 unique J



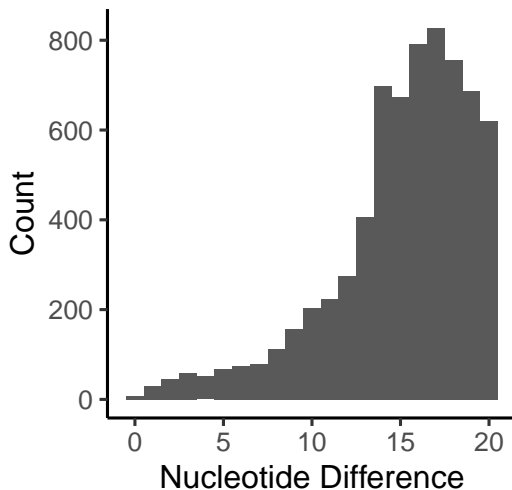
IGHV4–39*01_05

1703 sequences assigned
9 (0.5%) exact matches, in which:
8 unique CDR3
2 unique J



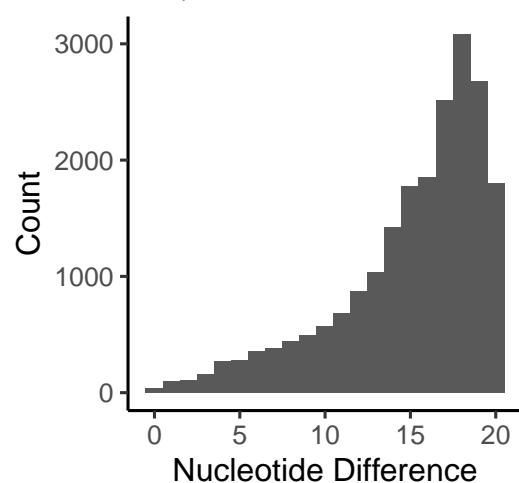
IGHV4–59*08

9218 sequences assigned
7 (0.1%) exact matches, in which:
7 unique CDR3
3 unique J



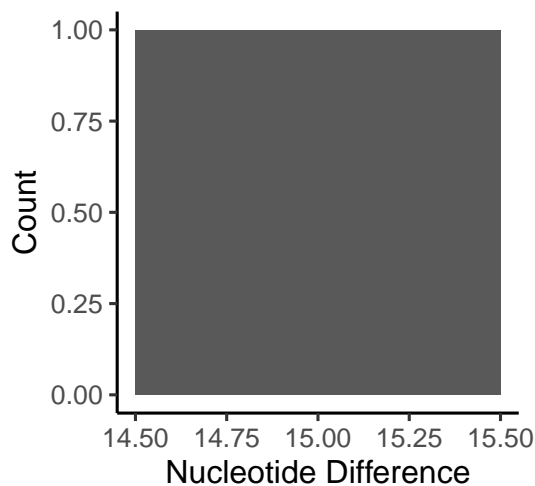
IGHV4–61*01

25498 sequences assigned
41 (0.2%) exact matches, in which:
29 unique CDR3
6 unique J



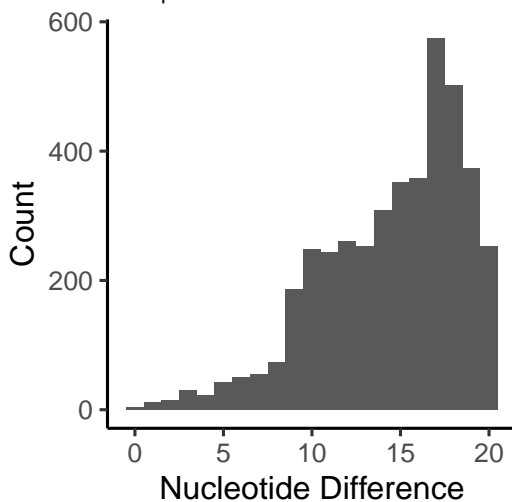
IGHV4–55*09

3 sequences assigned
No exact matches.



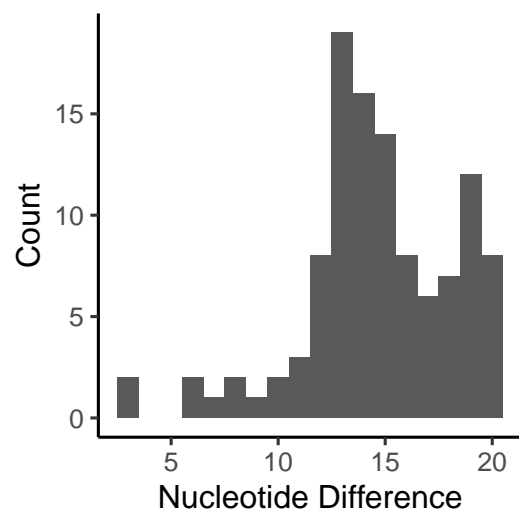
IGHV4–59*12

5546 sequences assigned
4 (0.1%) exact matches, in which:
4 unique CDR3
2 unique J



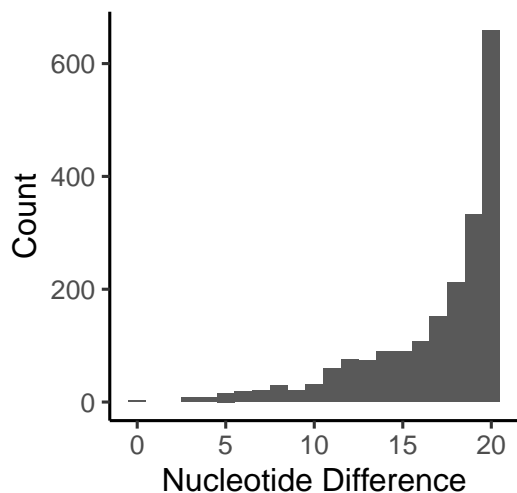
IGHV4/OR15–8*01

137 sequences assigned
No exact matches.



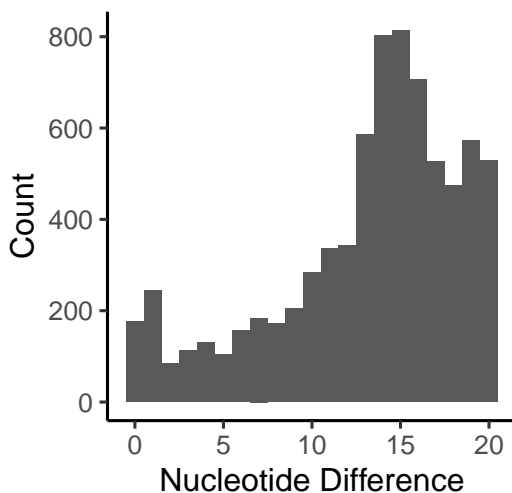
IGHV4–59*02

3516 sequences assigned
3 (0.1%) exact matches, in which:
2 unique CDR3
2 unique J



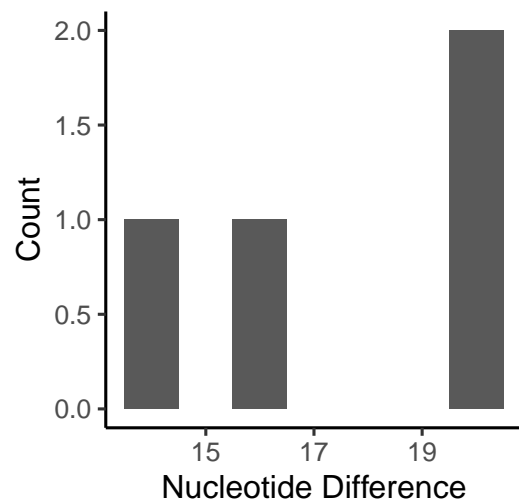
IGHV4–59*01_07

10947 sequences assigned
177 (1.6%) exact matches, in which:
100 unique CDR3
6 unique J



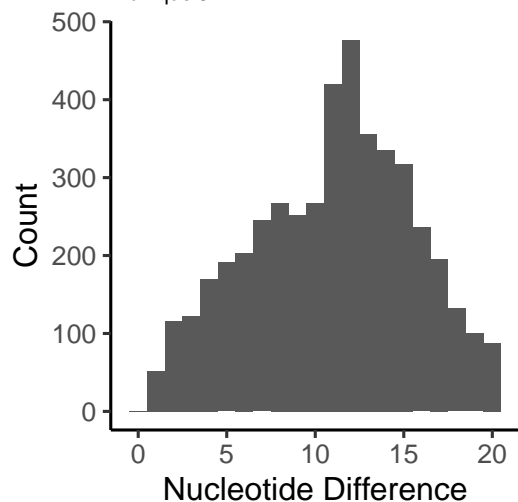
IGHV4/OR15–8*02

24 sequences assigned
No exact matches.



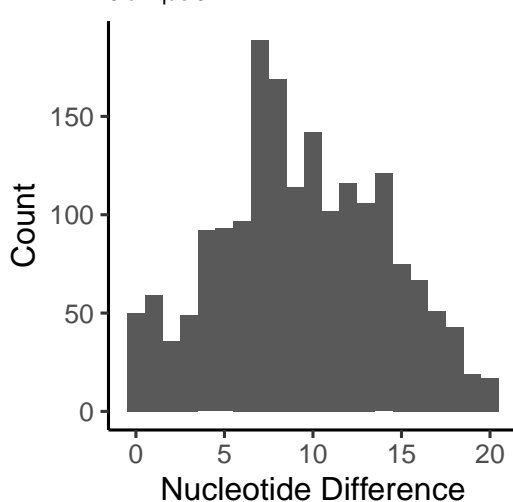
IGHV5-51*07

5149 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



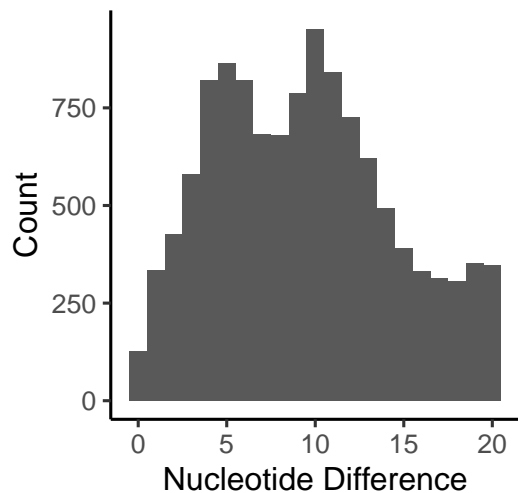
IGHV6-1*01_02_A315G

1869 sequences assigned
50 (2.7%) exact matches, in which:
45 unique CDR3
5 unique J



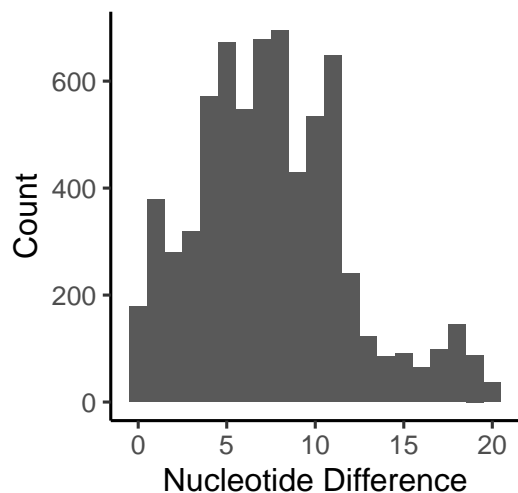
IGHV5-51*01_03

13602 sequences assigned
126 (0.9%) exact matches, in which:
81 unique CDR3
4 unique J

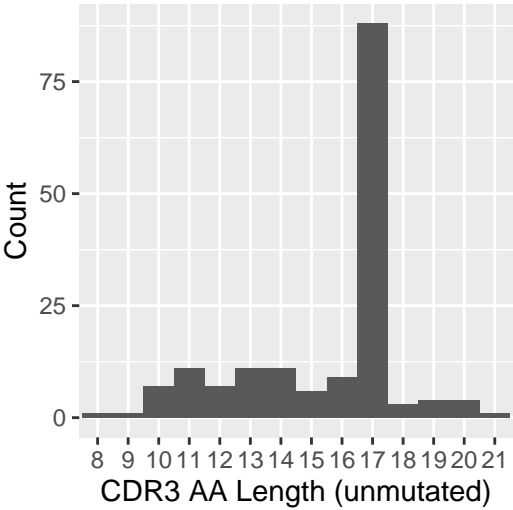


IGHV6-1*01_02

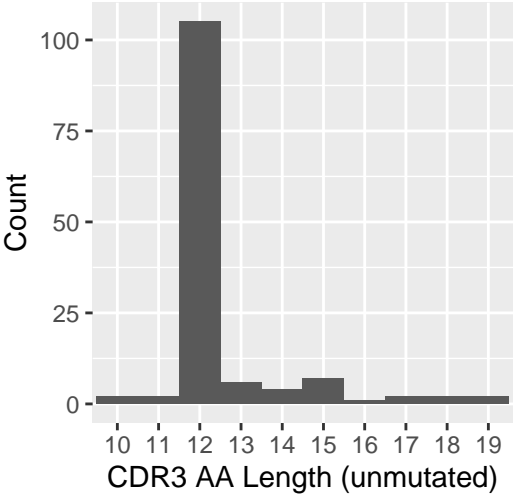
6955 sequences assigned
179 (2.6%) exact matches, in which:
86 unique CDR3
5 unique J



IGHV1-8*01_C90G_C177G_A241G_G284C



IGHV3-20*03_04_G119C_C120T_C134T_G141A_T160G_A169G_T186C_T189C_C192G_A204



IGHV6-1*01_02_A315G

