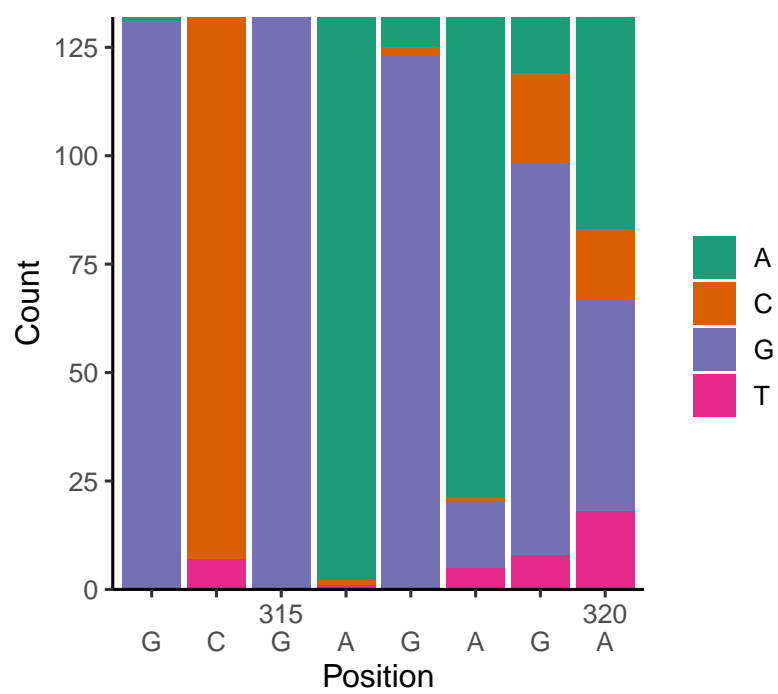
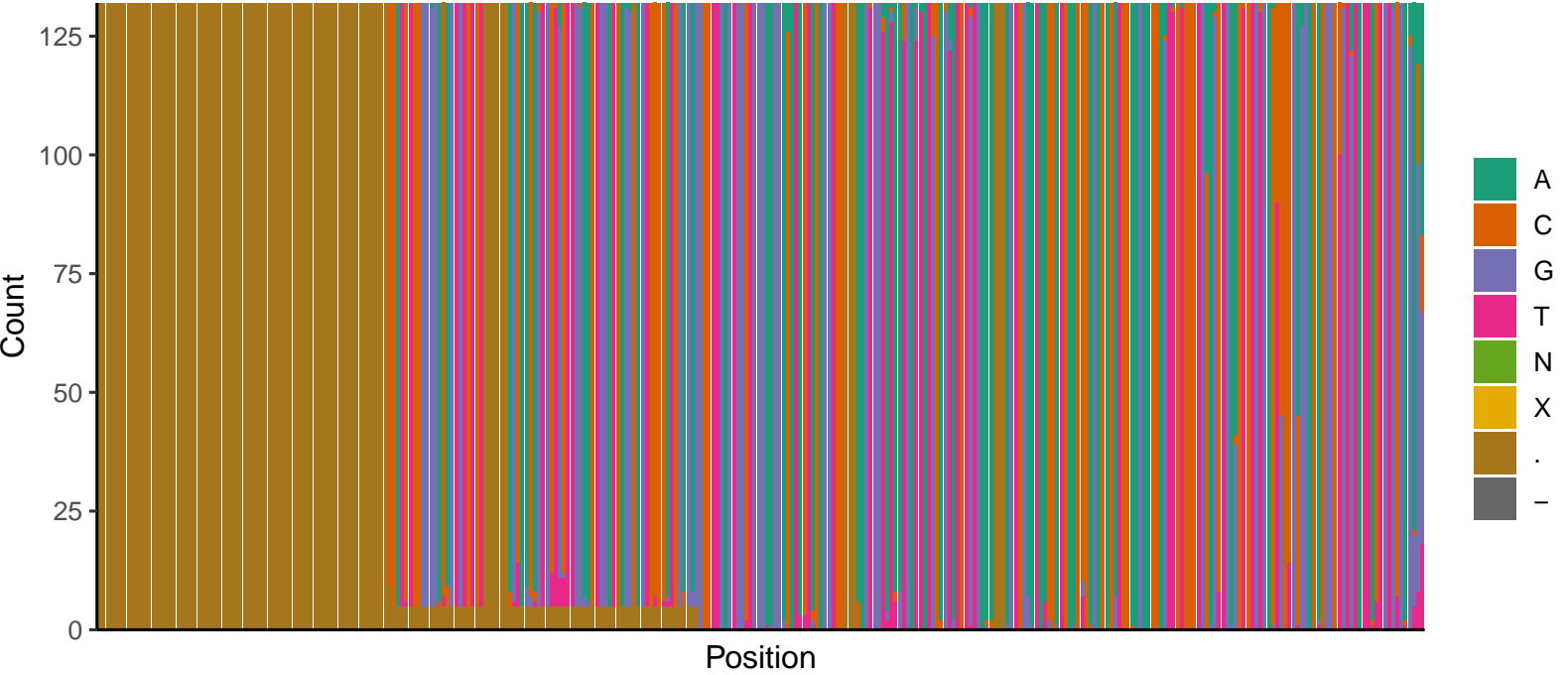


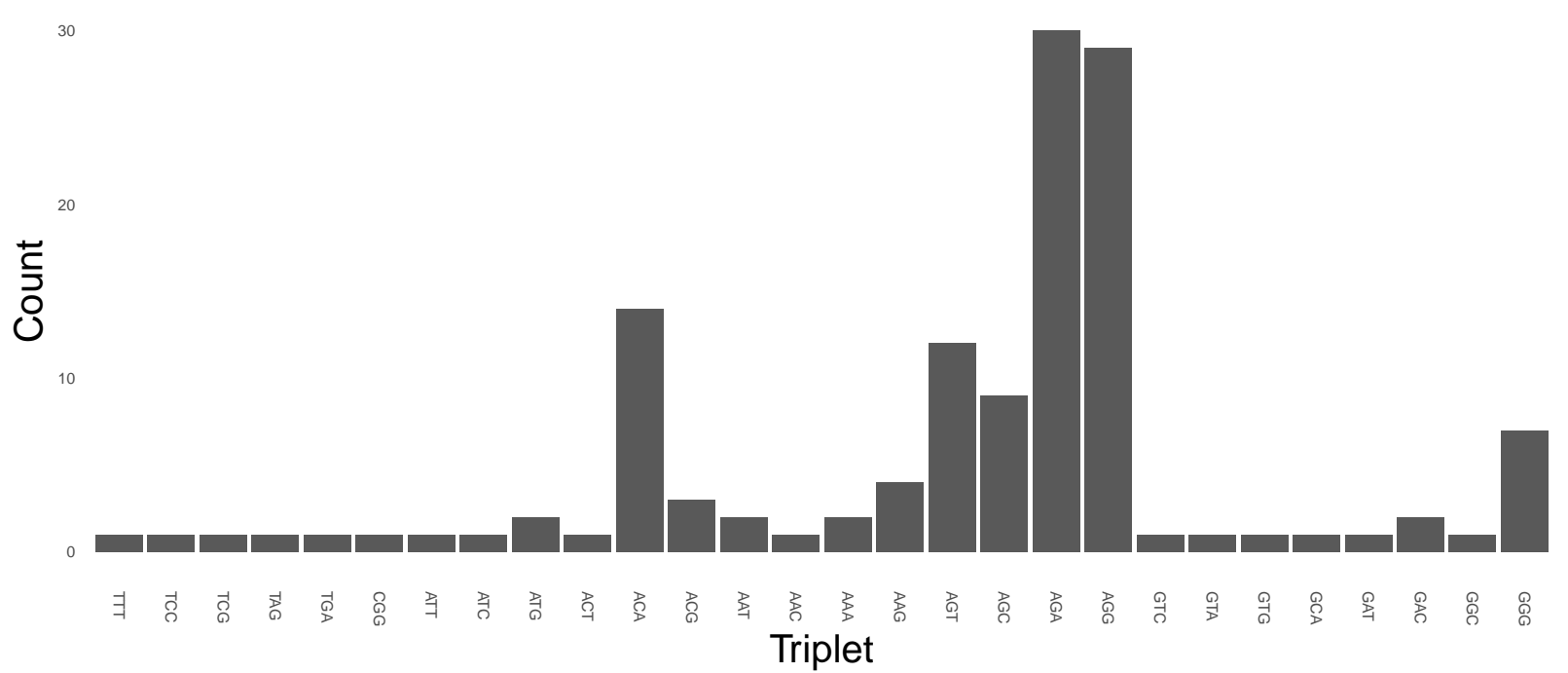
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

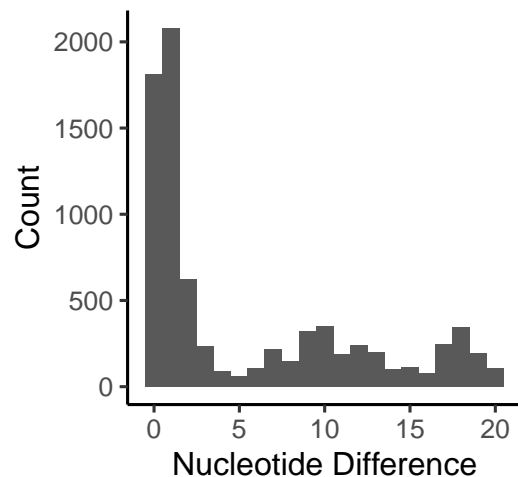


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



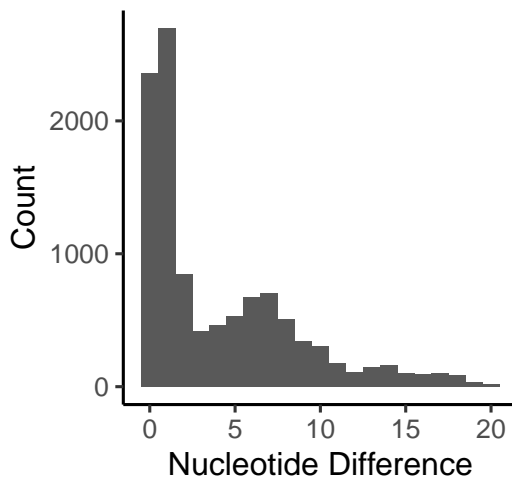
IGHV1-2*02

8996 sequences assigned
1813 (20.2%) exact matches, in which:
1479 unique CDR3
6 unique J



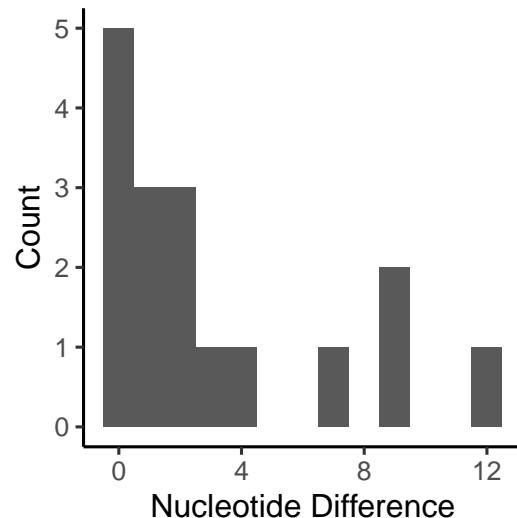
IGHV1-8*01

11094 sequences assigned
2357 (21.2%) exact matches, in which:
1979 unique CDR3
6 unique J



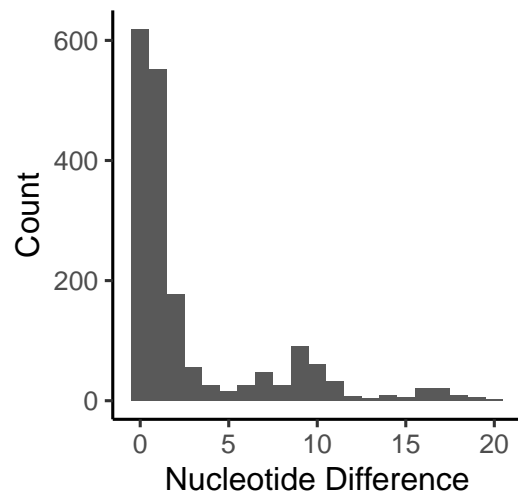
IGHV1-45*02

17 sequences assigned
5 (29.4%) exact matches, in which:
4 unique CDR3
1 unique J



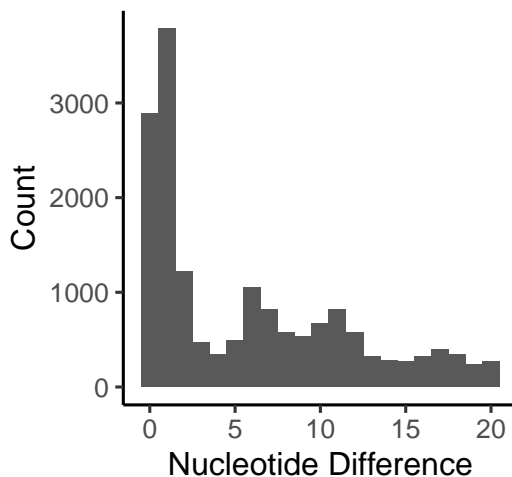
IGHV1-2*04

1826 sequences assigned
619 (33.9%) exact matches, in which:
524 unique CDR3
6 unique J



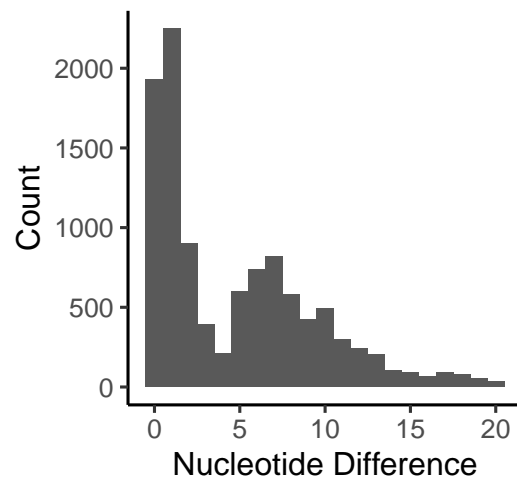
IGHV1-18*01

19350 sequences assigned
2886 (14.9%) exact matches, in which:
2331 unique CDR3
6 unique J



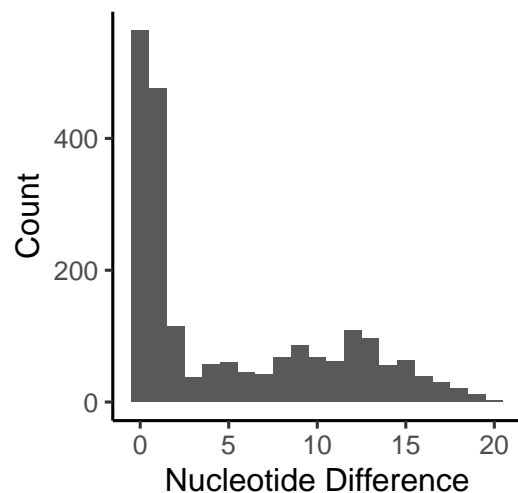
IGHV1-46*01

10871 sequences assigned
1931 (17.8%) exact matches, in which:
1617 unique CDR3
6 unique J



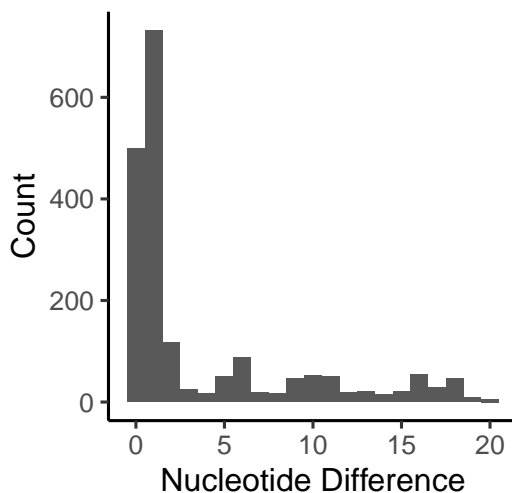
IGHV1-3*01_05

2329 sequences assigned
564 (24.2%) exact matches, in which:
458 unique CDR3
6 unique J



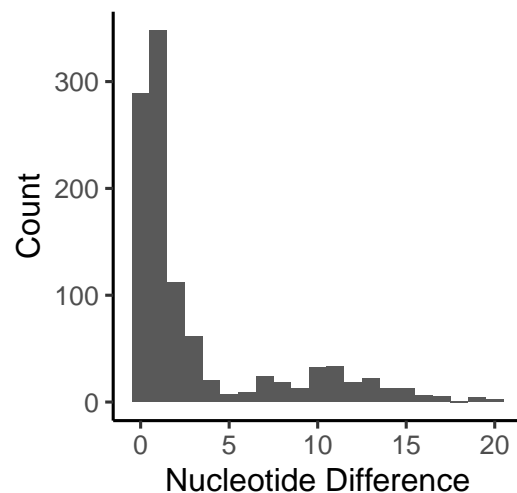
IGHV1-24*01

1948 sequences assigned
499 (25.6%) exact matches, in which:
346 unique CDR3
6 unique J



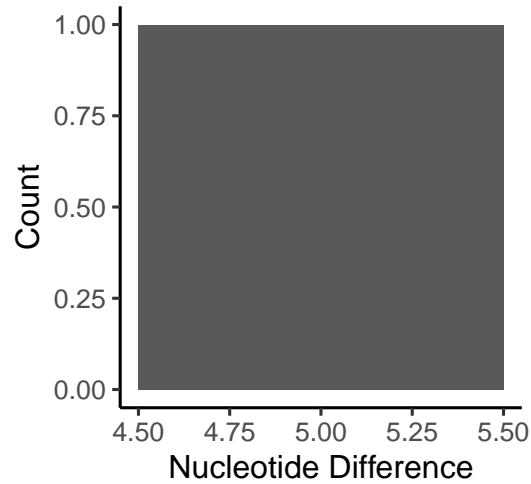
IGHV1-58*01_03

1052 sequences assigned
289 (27.5%) exact matches, in which:
242 unique CDR3
6 unique J



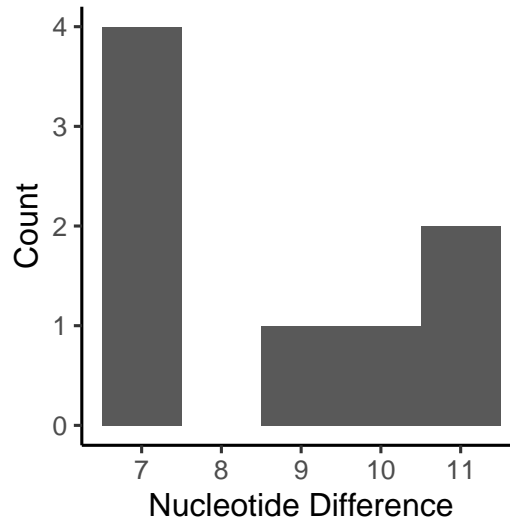
IGHV1-68*01

1 sequences assigned
No exact matches.



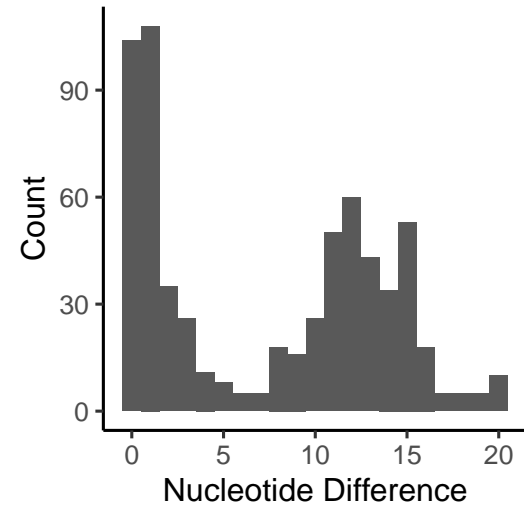
IGHV1-NL1*01

8 sequences assigned
No exact matches.



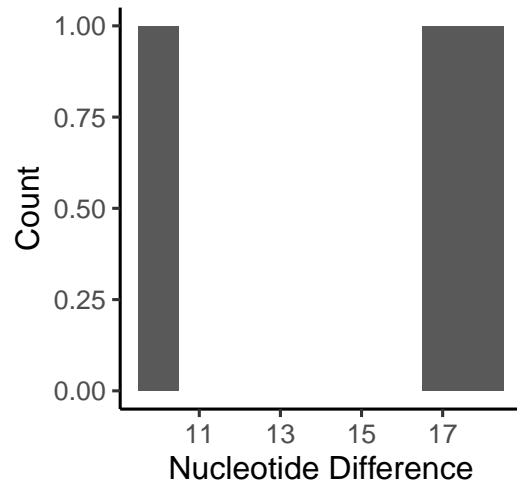
IGHV2-26*01

824 sequences assigned
104 (12.6%) exact matches, in which:
86 unique CDR3
5 unique J



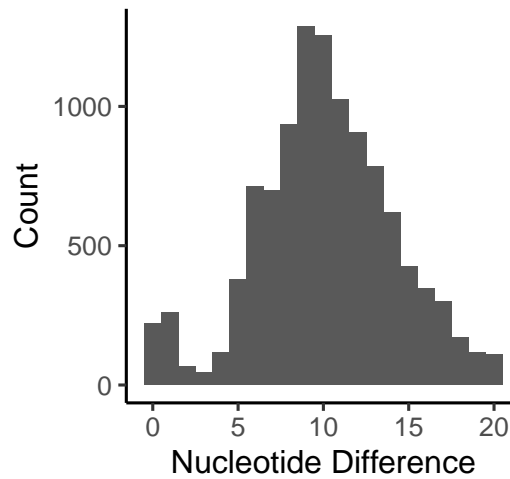
IGHV1-69-2*01

3 sequences assigned
No exact matches.



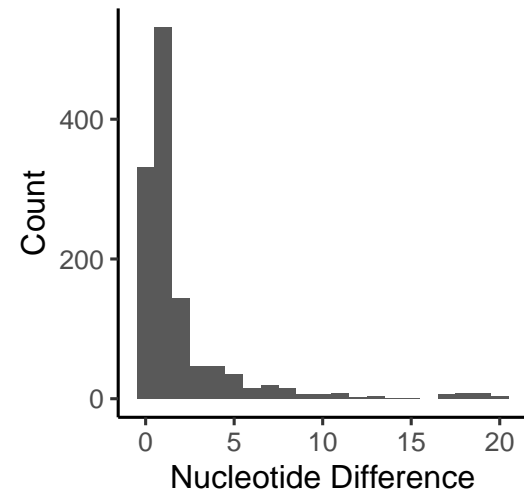
IGHV2-5*01

11198 sequences assigned
220 (2%) exact matches, in which:
170 unique CDR3
6 unique J



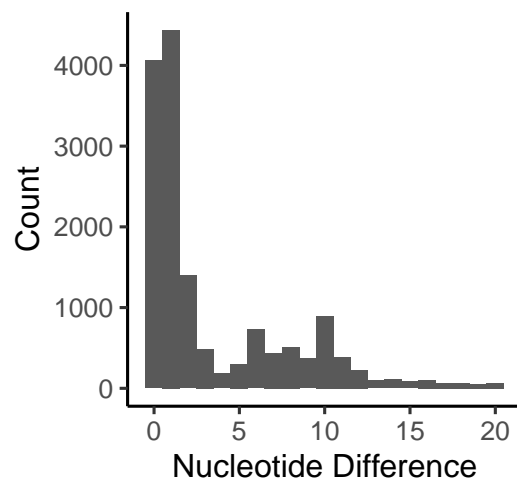
IGHV2-70*01

1298 sequences assigned
331 (25.5%) exact matches, in which:
205 unique CDR3
5 unique J



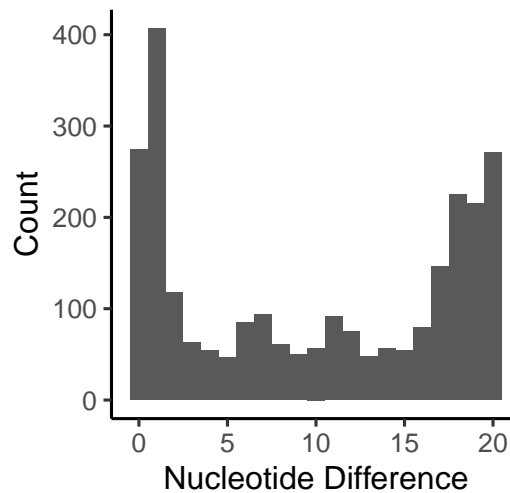
IGHV1-69*01_12_13

16357 sequences assigned
4061 (24.8%) exact matches, in which:
3389 unique CDR3
6 unique J



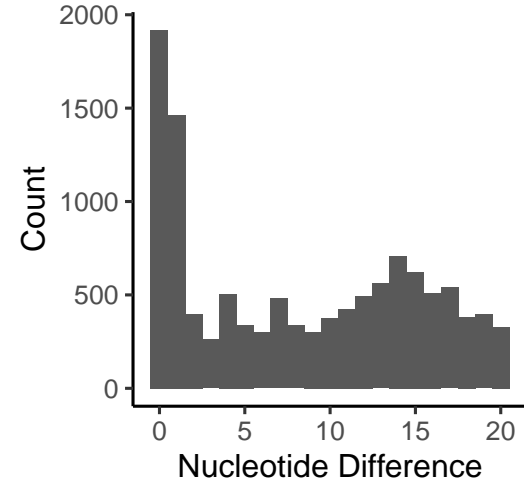
IGHV2-5*02

3698 sequences assigned
274 (7.4%) exact matches, in which:
217 unique CDR3
5 unique J



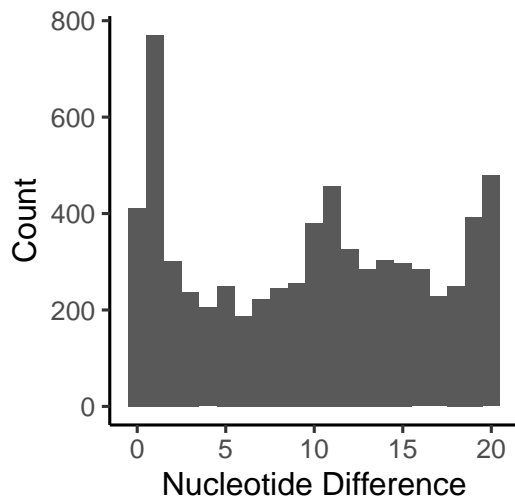
IGHV3-7*01

14259 sequences assigned
1918 (13.5%) exact matches, in which:
1292 unique CDR3
6 unique J



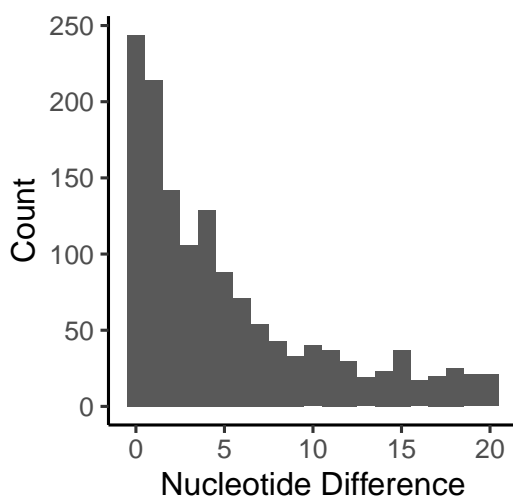
IGHV3-7*03

10209 sequences assigned
411 (4%) exact matches, in which:
273 unique CDR3
6 unique J



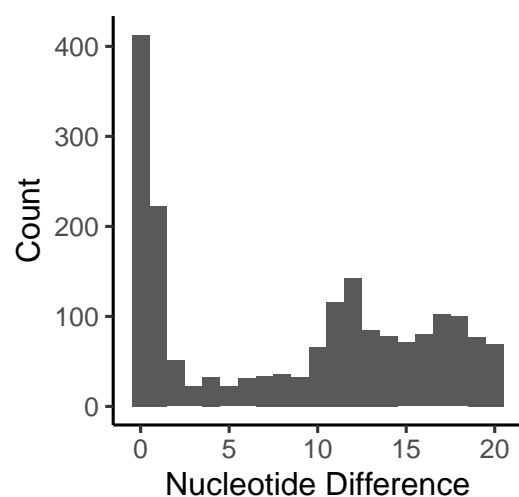
IGHV3-11*04

1544 sequences assigned
244 (15.8%) exact matches, in which:
233 unique CDR3
6 unique J



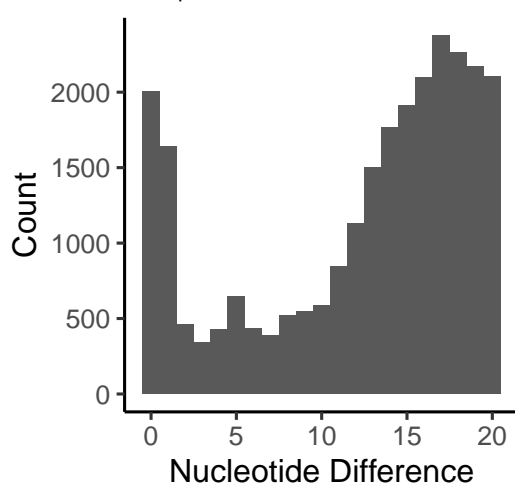
IGHV3-15*01_02

2400 sequences assigned
413 (17.2%) exact matches, in which:
278 unique CDR3
6 unique J



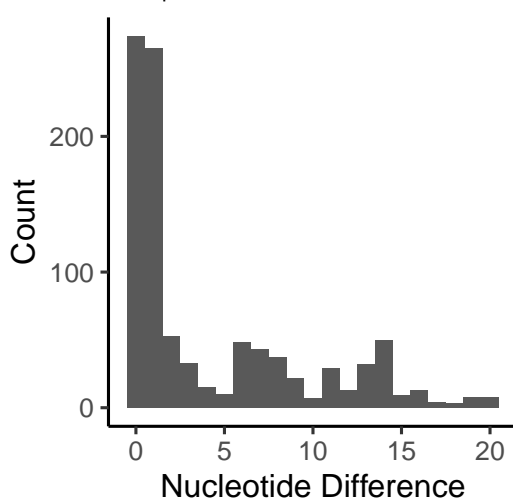
IGHV3-9*01

40581 sequences assigned
2004 (4.9%) exact matches, in which:
1161 unique CDR3
6 unique J



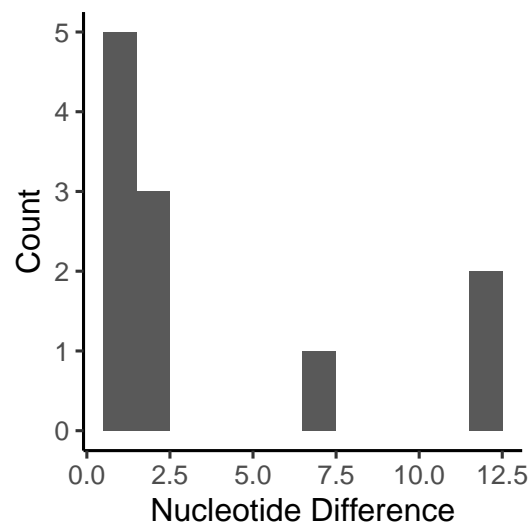
IGHV3-13*01

1036 sequences assigned
274 (26.4%) exact matches, in which:
147 unique CDR3
5 unique J



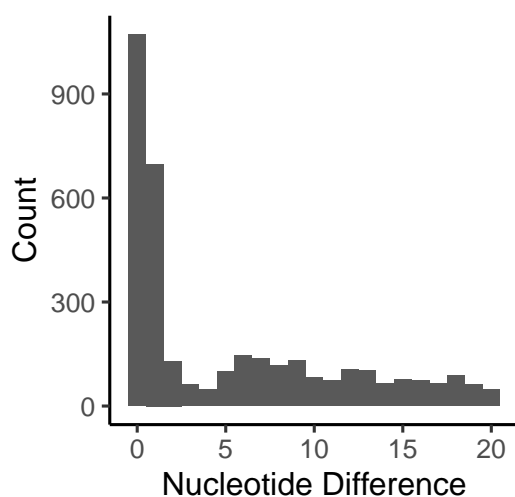
IGHV3-19*01

11 sequences assigned
No exact matches.



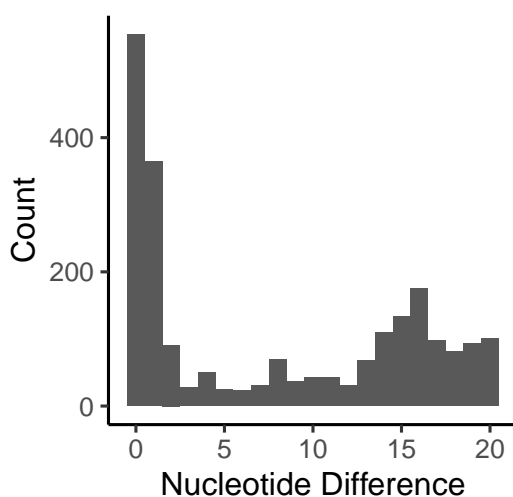
IGHV3-11*01

4191 sequences assigned
1072 (25.6%) exact matches, in which:
700 unique CDR3
6 unique J



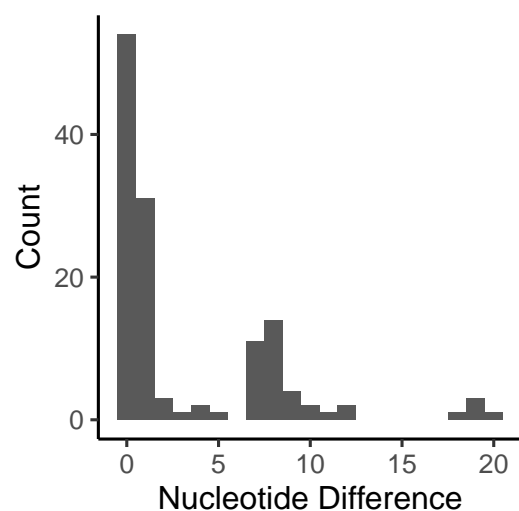
IGHV3-15*07

3157 sequences assigned
554 (17.5%) exact matches, in which:
360 unique CDR3
5 unique J



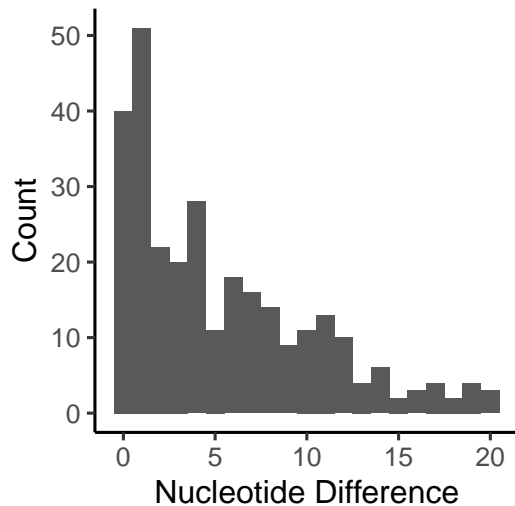
IGHV3-20*01_02

149 sequences assigned
54 (36.2%) exact matches, in which:
29 unique CDR3
5 unique J



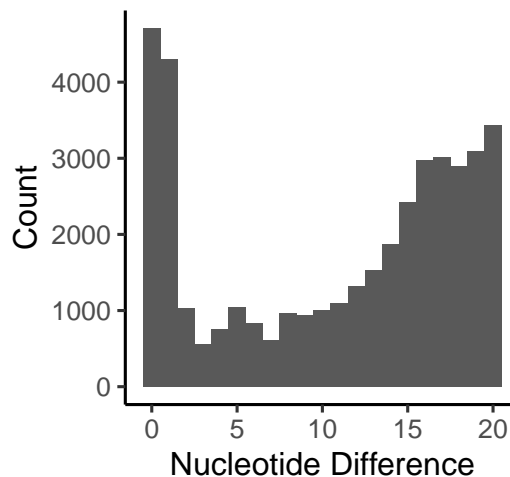
IGHV3-20*03_04

386 sequences assigned
40 (10.4%) exact matches, in which:
29 unique CDR3
4 unique J



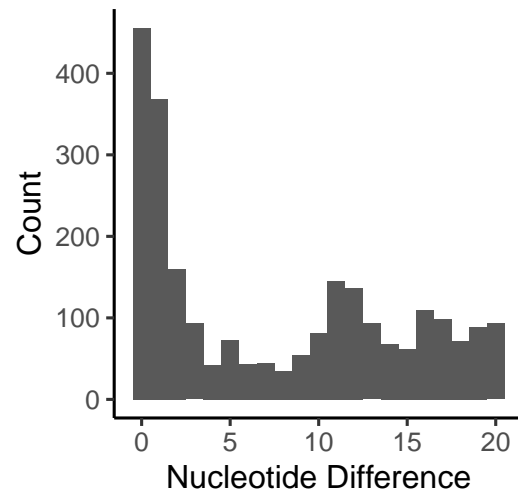
IGHV3-23*01_04

63768 sequences assigned
4706 (7.4%) exact matches, in which:
2692 unique CDR3
6 unique J



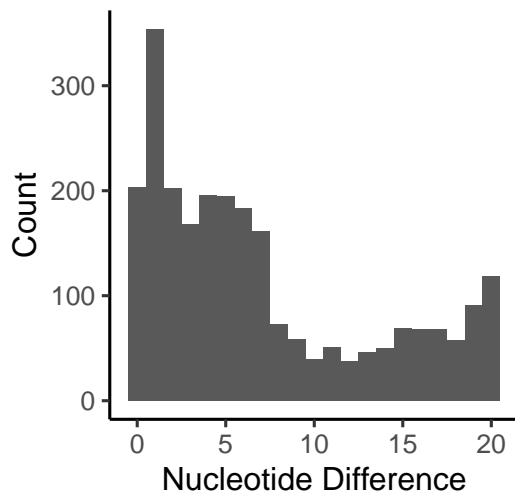
IGHV3-30*18

4851 sequences assigned
456 (9.4%) exact matches, in which:
274 unique CDR3
6 unique J



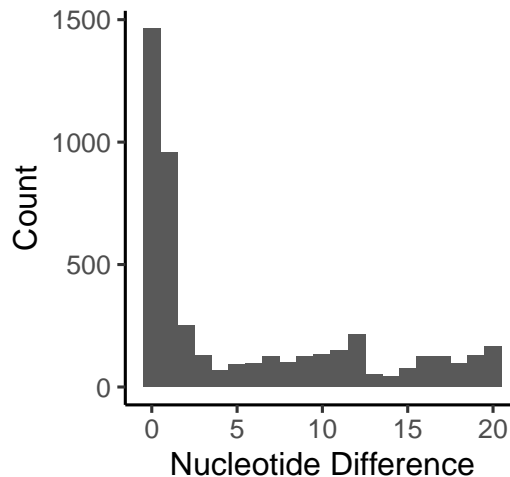
IGHV3-21*04

3325 sequences assigned
203 (6.1%) exact matches, in which:
187 unique CDR3
6 unique J



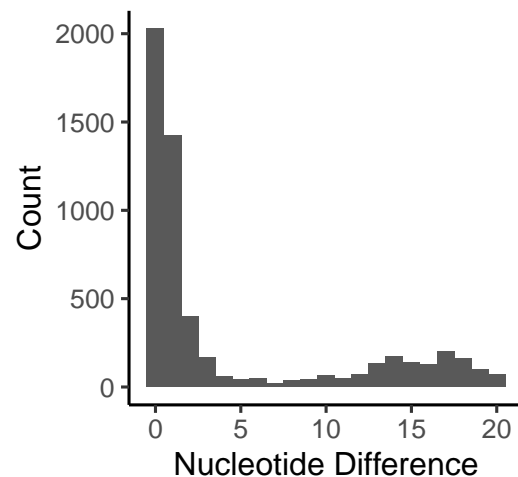
IGHV3-30-3*01

5657 sequences assigned
1463 (25.9%) exact matches, in which:
982 unique CDR3
6 unique J



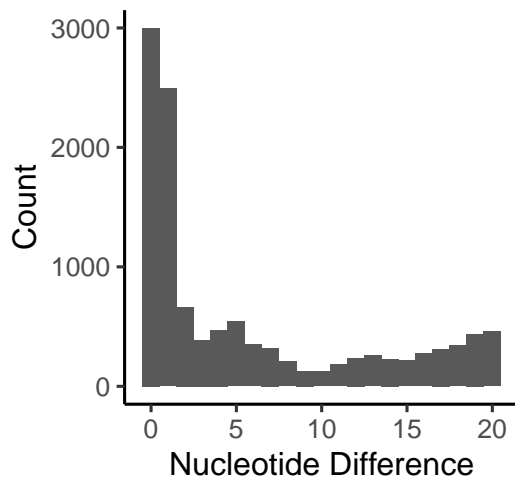
IGHV3-33*01

6513 sequences assigned
2028 (31.1%) exact matches, in which:
1318 unique CDR3
6 unique J



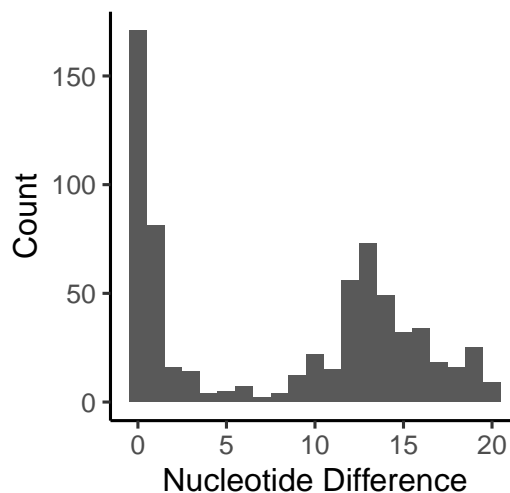
IGHV3-21*01_02

14668 sequences assigned
2999 (20.4%) exact matches, in which:
1860 unique CDR3
6 unique J



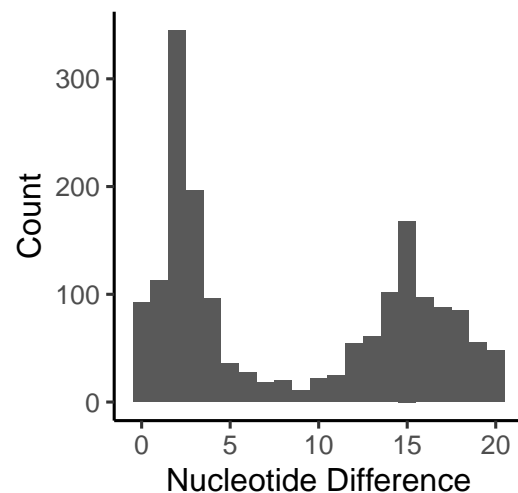
IGHV3-30*03

898 sequences assigned
171 (19%) exact matches, in which:
162 unique CDR3
6 unique J



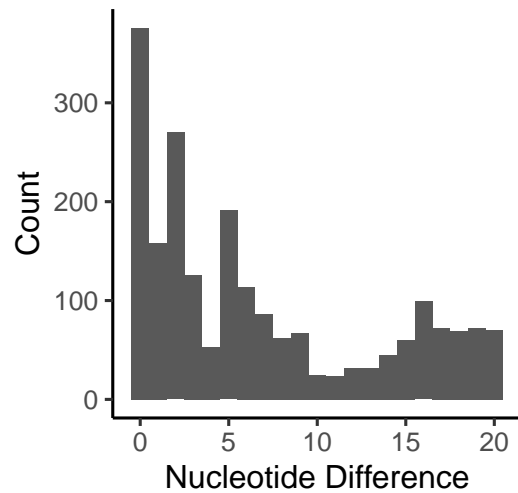
IGHV3-33*06

1923 sequences assigned
92 (4.8%) exact matches, in which:
86 unique CDR3
6 unique J



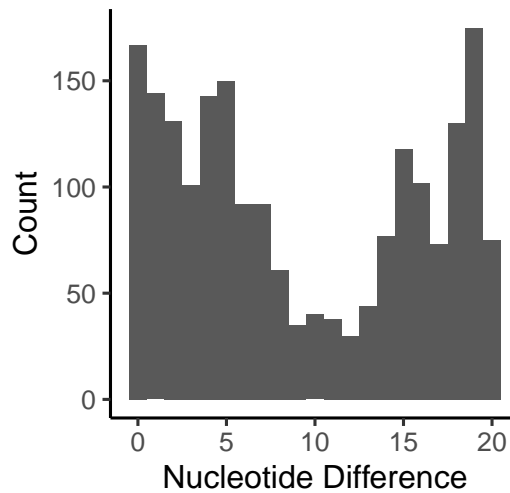
IGHV3–33*08

2509 sequences assigned
376 (15%) exact matches, in which:
304 unique CDR3
6 unique J



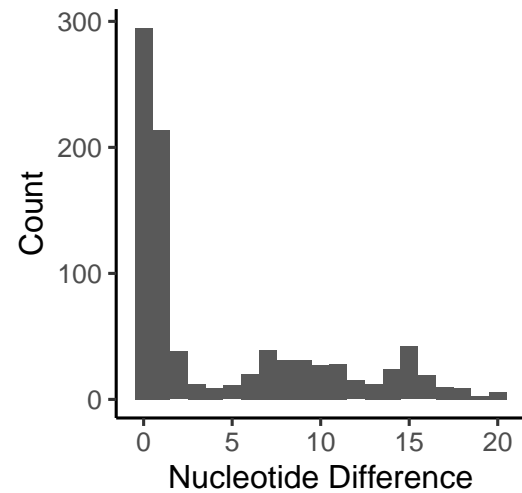
IGHV3–48*01

2342 sequences assigned
167 (7.1%) exact matches, in which:
157 unique CDR3
6 unique J



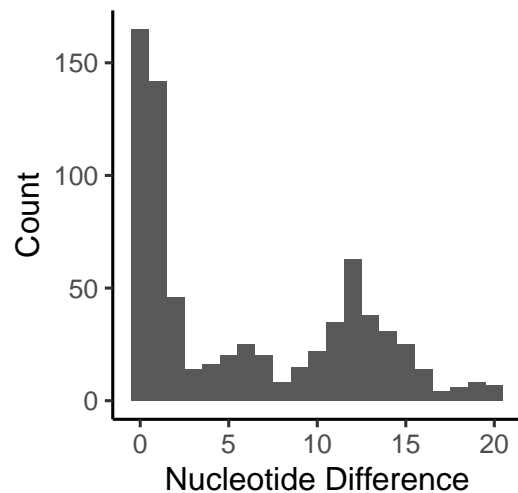
IGHV3–49*03_05

978 sequences assigned
295 (30.2%) exact matches, in which:
181 unique CDR3
6 unique J



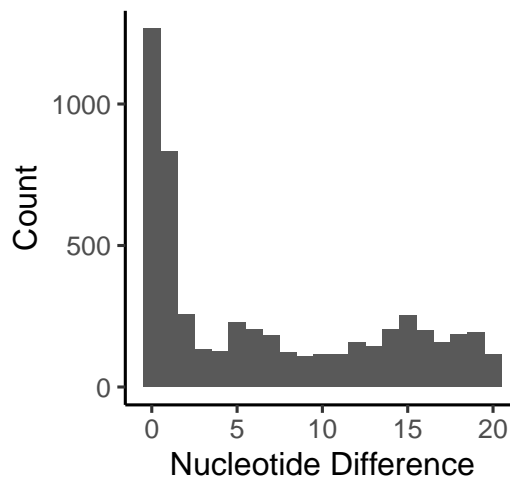
IGHV3–43*01

840 sequences assigned
165 (19.6%) exact matches, in which:
103 unique CDR3
5 unique J



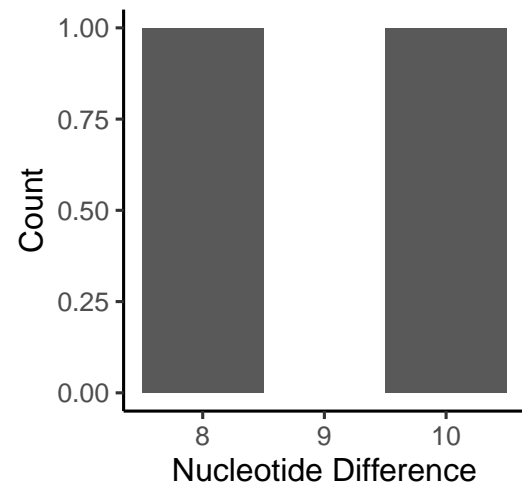
IGHV3–48*02

6360 sequences assigned
1266 (19.9%) exact matches, in which:
811 unique CDR3
6 unique J



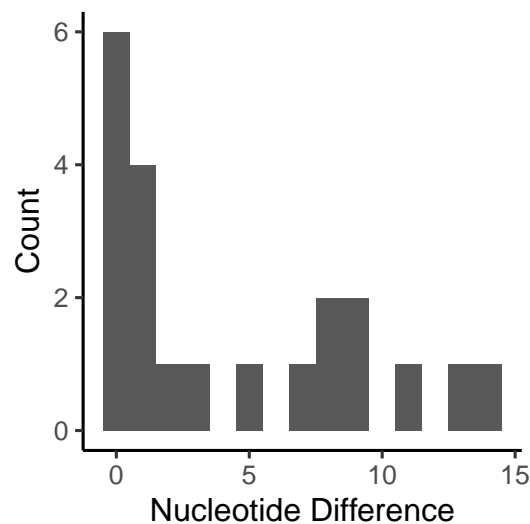
IGHV3–52*01_03

2 sequences assigned
No exact matches.



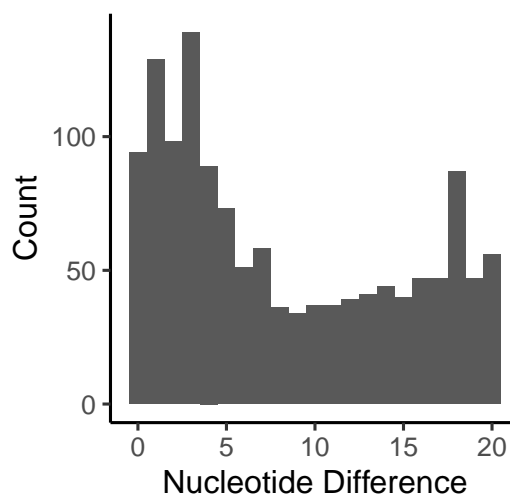
IGHV3–47*02

21 sequences assigned
6 (28.6%) exact matches, in which:
3 unique CDR3
1 unique J



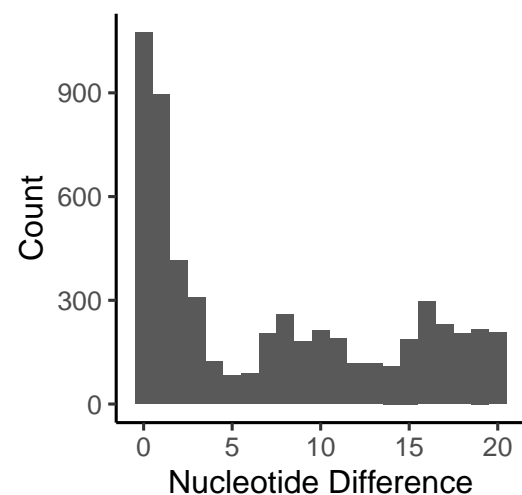
IGHV3–48*04

1897 sequences assigned
94 (5%) exact matches, in which:
86 unique CDR3
5 unique J



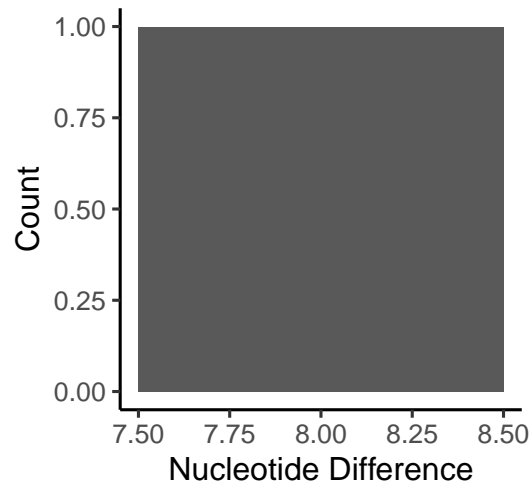
IGHV3–53*01_02

9648 sequences assigned
1075 (11.1%) exact matches, in which:
750 unique CDR3
6 unique J



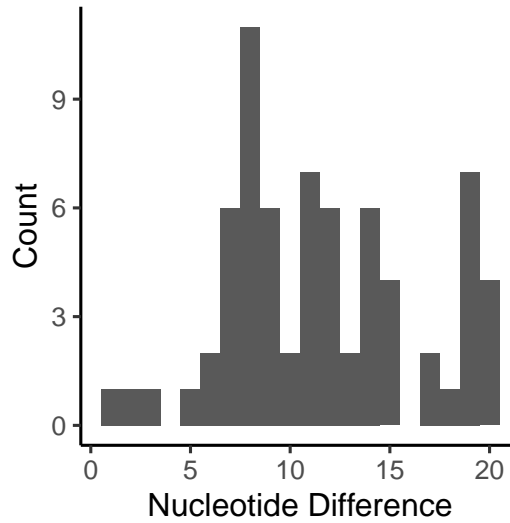
IGHV3-62*03

2 sequences assigned
No exact matches.



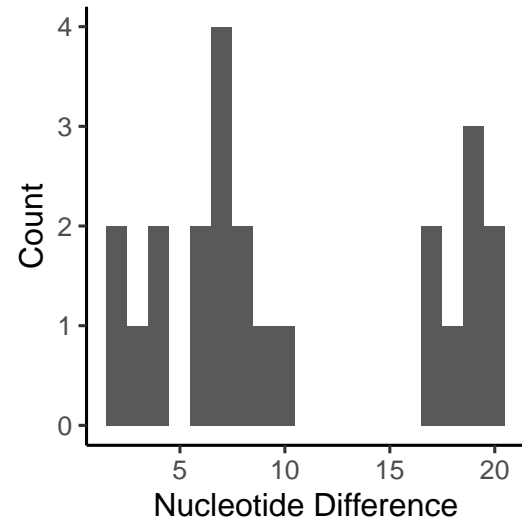
IGHV3-66*01

138 sequences assigned
No exact matches.



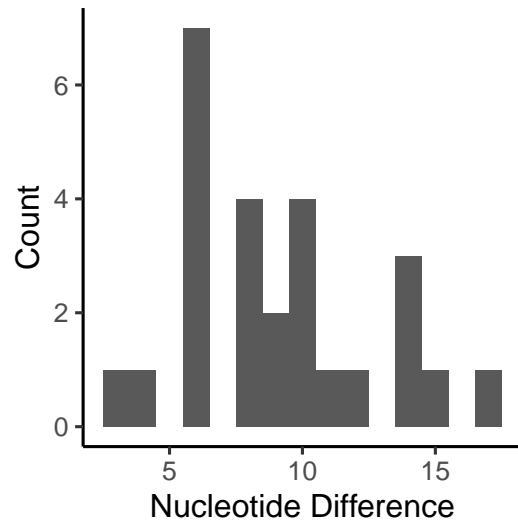
IGHV3-66*04

52 sequences assigned
No exact matches.



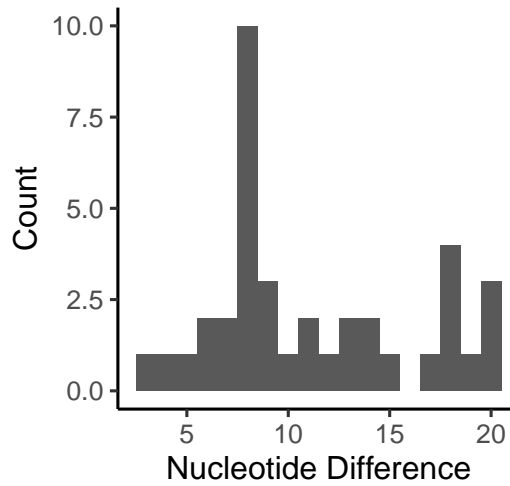
IGHV3-64*04

30 sequences assigned
No exact matches.



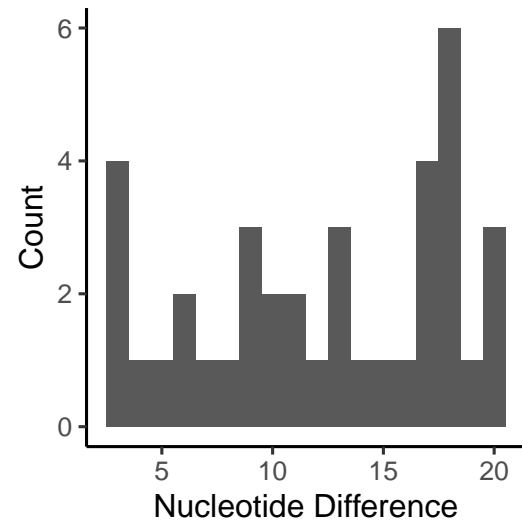
IGHV3-66*02

61 sequences assigned
No exact matches.



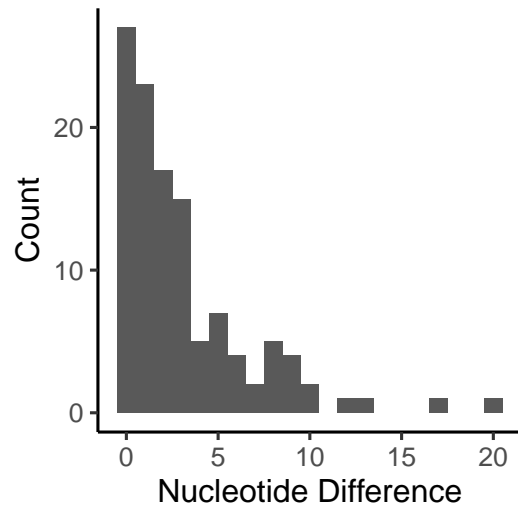
IGHV3-69-1*01

104 sequences assigned
No exact matches.



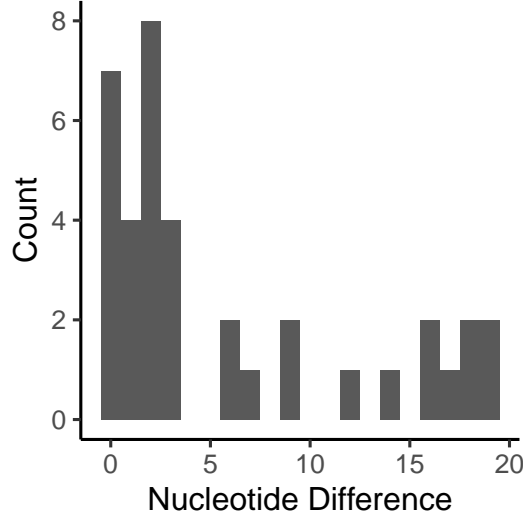
IGHV3-64*02_07

118 sequences assigned
27 (22.9%) exact matches, in which:
16 unique CDR3
3 unique J



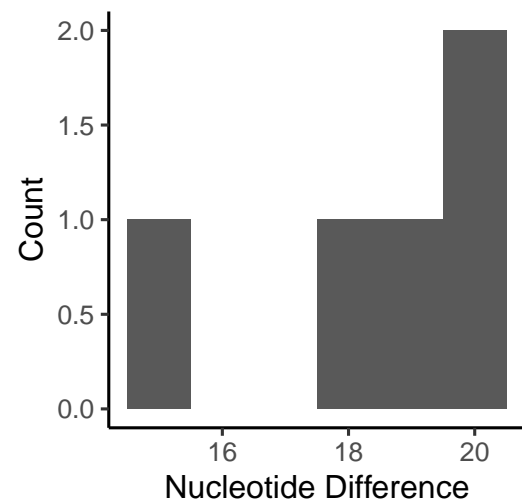
IGHV3-66*03

44 sequences assigned
7 (15.9%) exact matches, in which:
7 unique CDR3
2 unique J



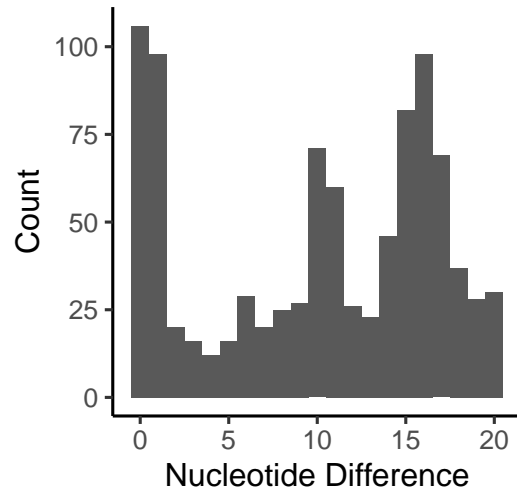
IGHV3-69-1*02

21 sequences assigned
No exact matches.



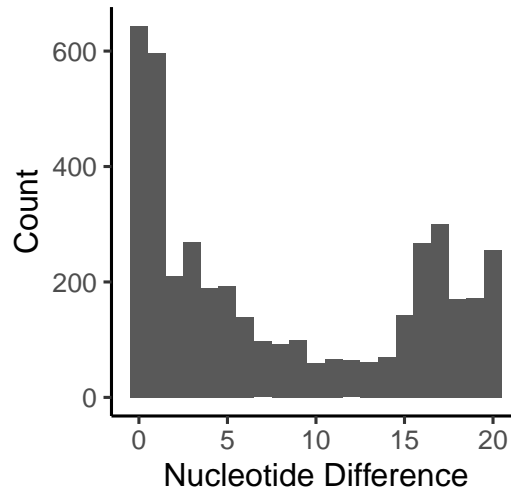
IGHV3-72*01

1196 sequences assigned
106 (8.9%) exact matches, in which:
65 unique CDR3
6 unique J



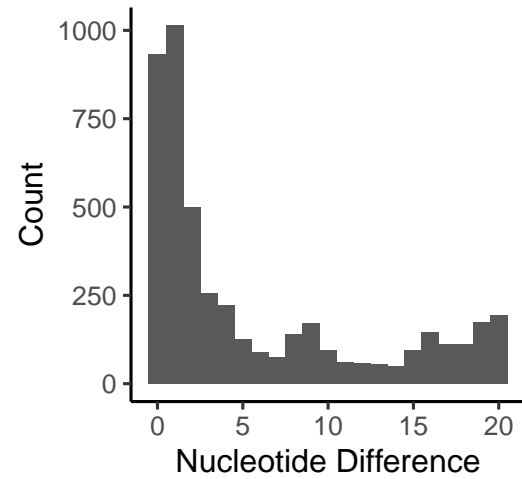
IGHV3-74*01_02

5535 sequences assigned
644 (11.6%) exact matches, in which:
422 unique CDR3
6 unique J



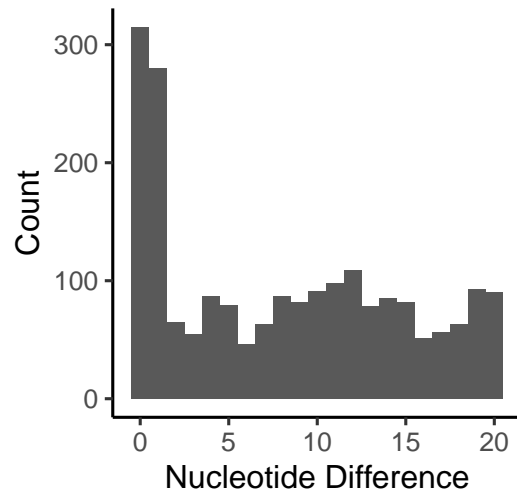
IGHV4-4*07

7255 sequences assigned
932 (12.8%) exact matches, in which:
796 unique CDR3
6 unique J



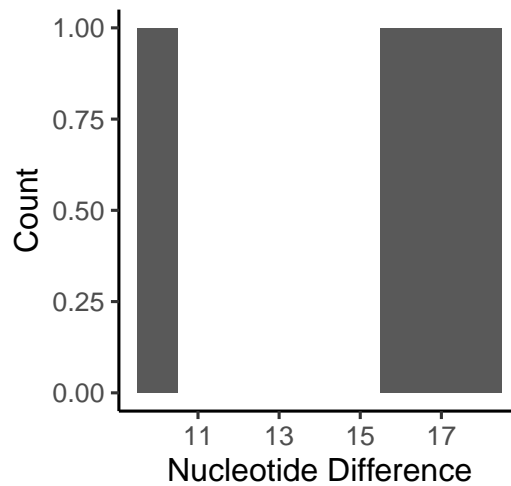
IGHV3-73*01_02

2405 sequences assigned
315 (13.1%) exact matches, in which:
186 unique CDR3
5 unique J



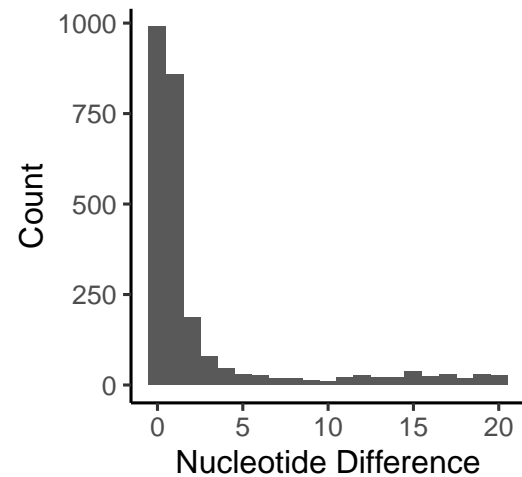
IGHV3-43D*04

4 sequences assigned
No exact matches.



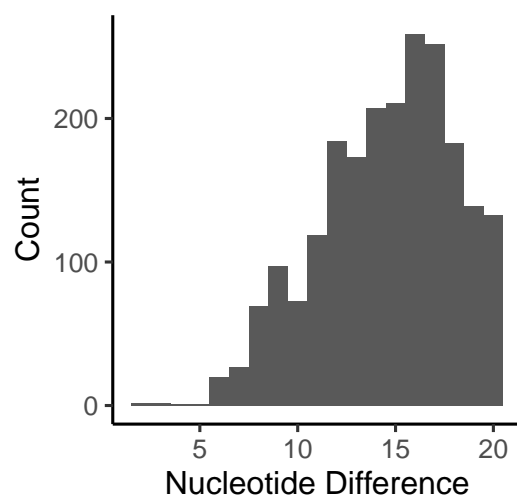
IGHV4-4*02_03

2793 sequences assigned
990 (35.4%) exact matches, in which:
727 unique CDR3
6 unique J



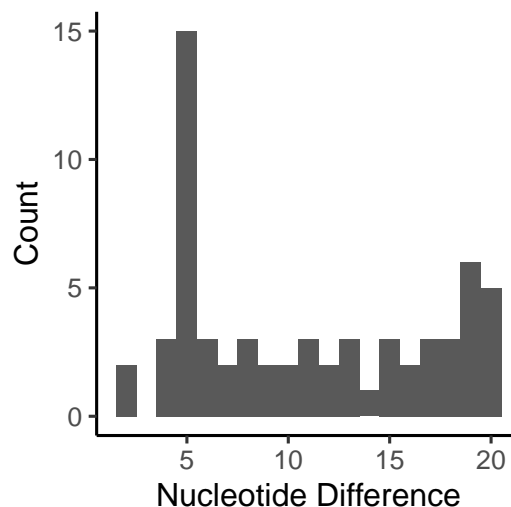
IGHV3-74*03

3560 sequences assigned
No exact matches.



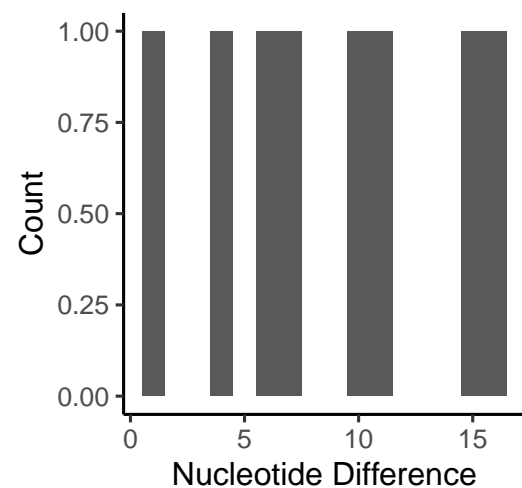
IGHV3-NL1*01

125 sequences assigned
No exact matches.



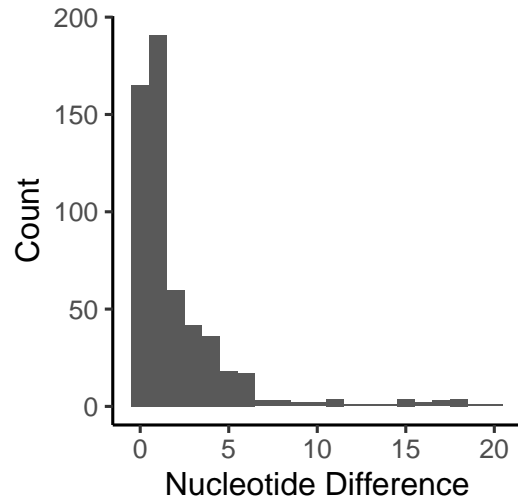
IGHV4-28*03

11 sequences assigned
No exact matches.



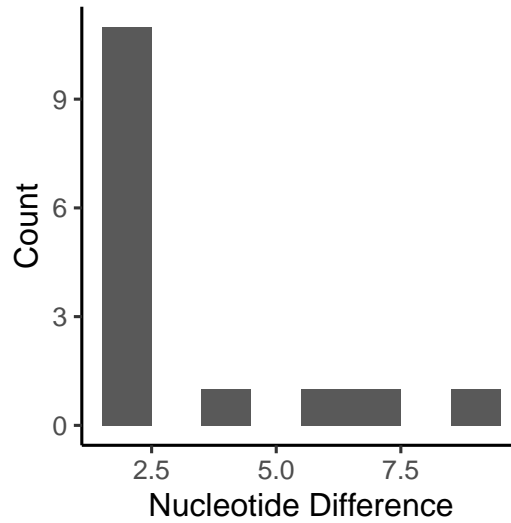
IGHV4-30-2*01

581 sequences assigned
165 (28.4%) exact matches, in which:
87 unique CDR3
5 unique J



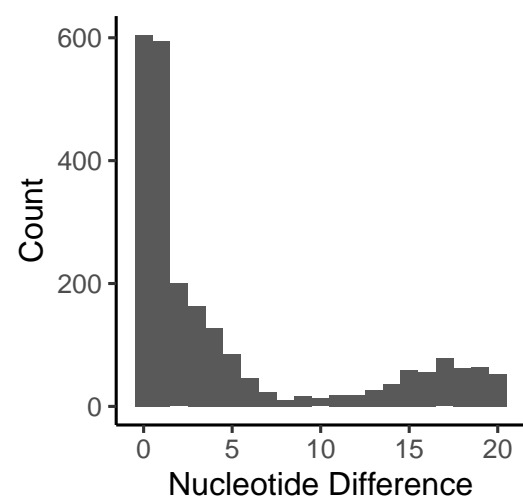
IGHV4-30-2*05

16 sequences assigned
No exact matches.



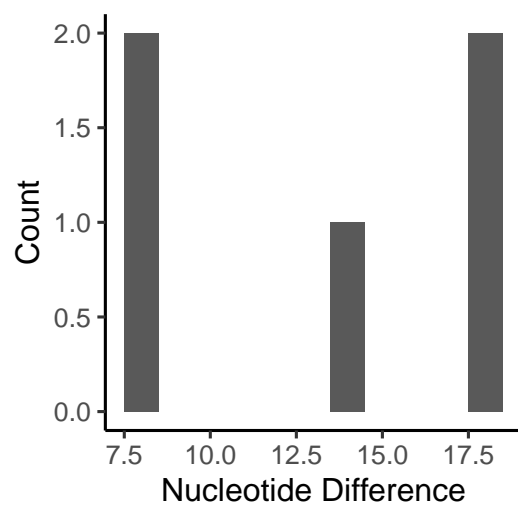
IGHV4-31*02

4245 sequences assigned
605 (14.3%) exact matches, in which:
486 unique CDR3
6 unique J



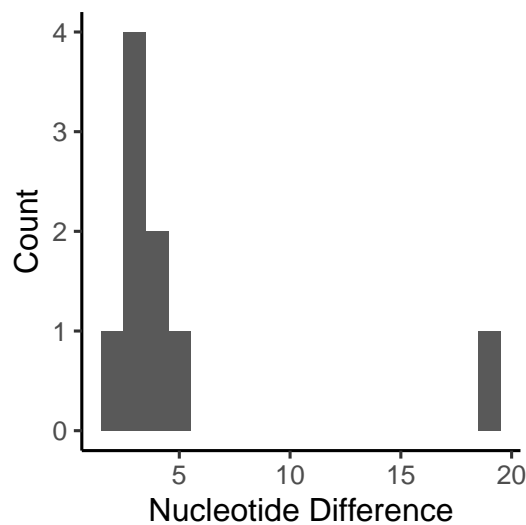
IGHV4-30-4*01

37 sequences assigned
No exact matches.



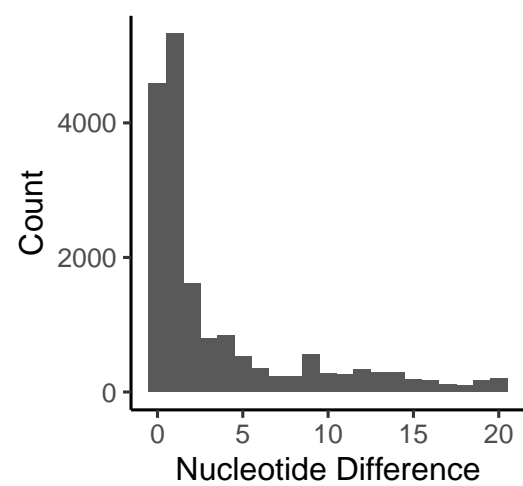
IGHV4-30-4*07

10 sequences assigned
No exact matches.



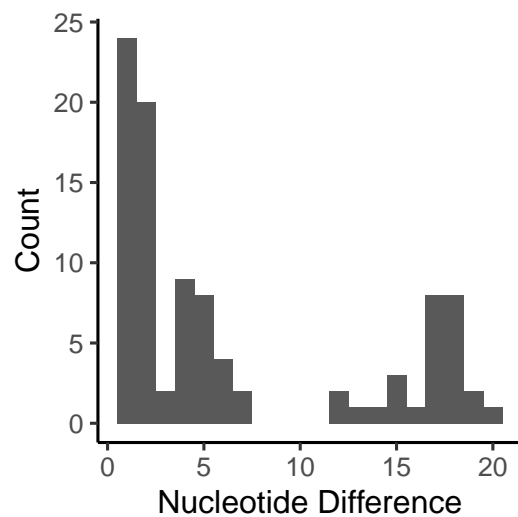
IGHV4-34*01_02

18374 sequences assigned
4581 (24.9%) exact matches, in which:
3006 unique CDR3
6 unique J



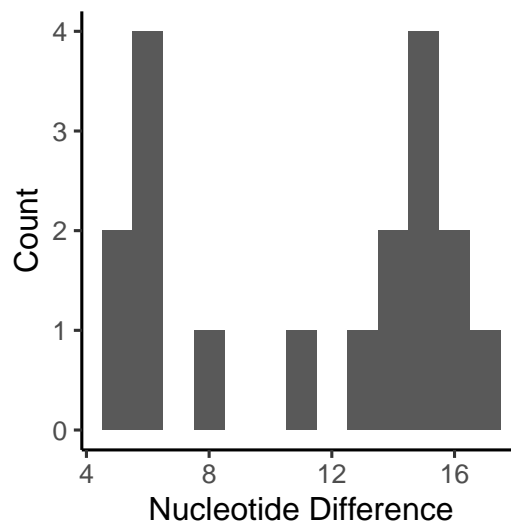
IGHV4-30-2*03

177 sequences assigned
No exact matches.



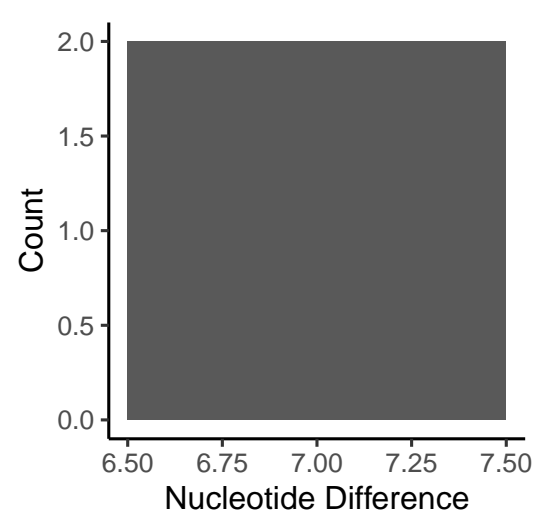
IGHV4-30-4*08

25 sequences assigned
No exact matches.



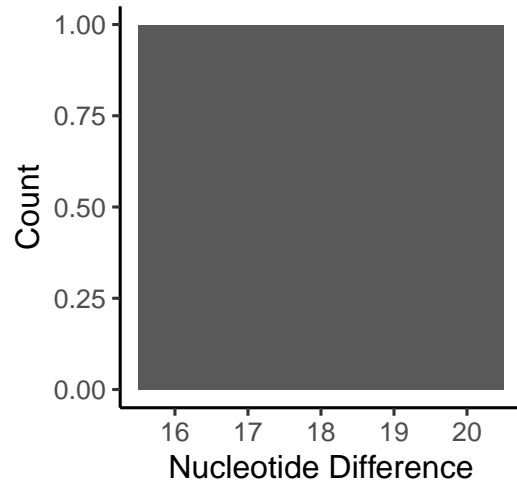
IGHV4-38-2*01

5 sequences assigned
No exact matches.



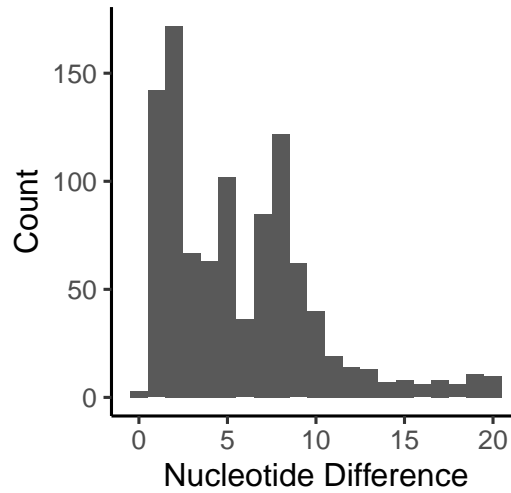
IGHV4-38-2*02

28 sequences assigned
No exact matches.



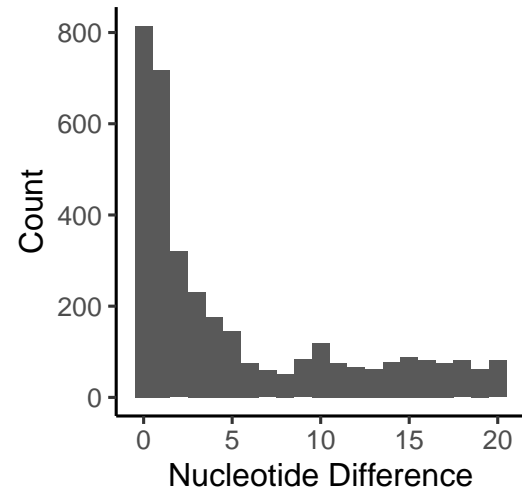
IGHV4-59*08

1136 sequences assigned
3 (0.3%) exact matches, in which:
3 unique CDR3
2 unique J



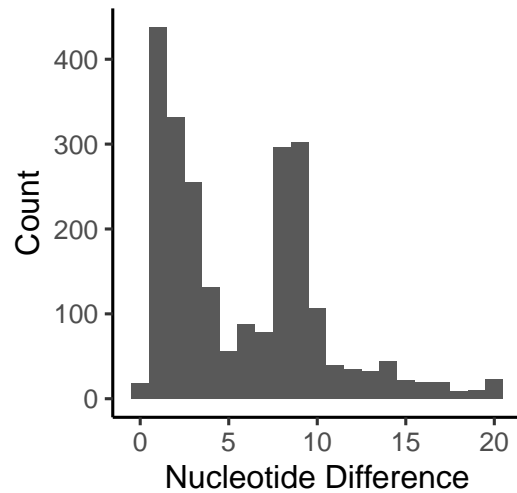
IGHV4-61*01

4039 sequences assigned
815 (20.2%) exact matches, in which:
704 unique CDR3
6 unique J



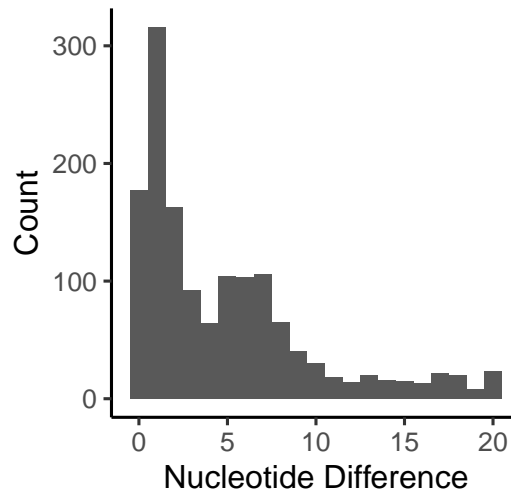
IGHV4-39*07

2641 sequences assigned
18 (0.7%) exact matches, in which:
18 unique CDR3
5 unique J



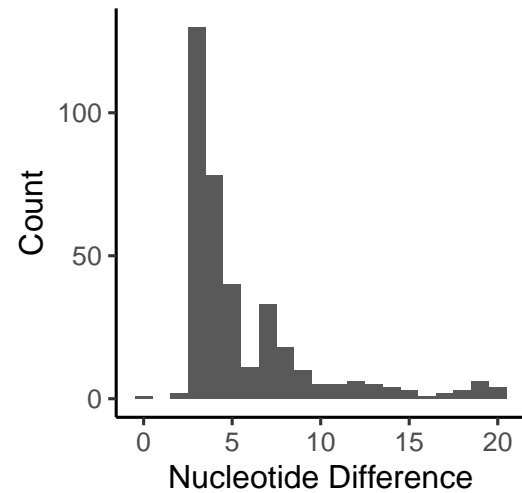
IGHV4-59*12

1660 sequences assigned
177 (10.7%) exact matches, in which:
170 unique CDR3
6 unique J



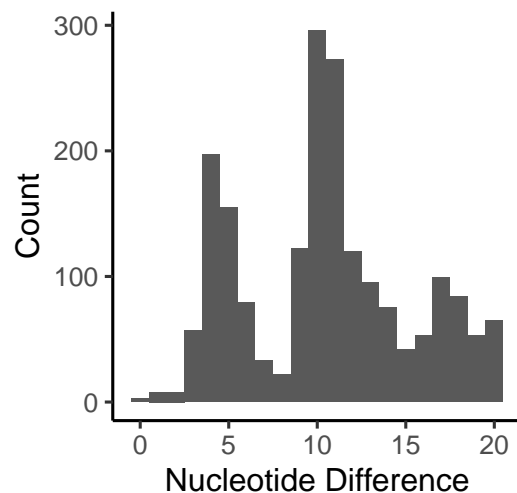
IGHV4-61*02

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



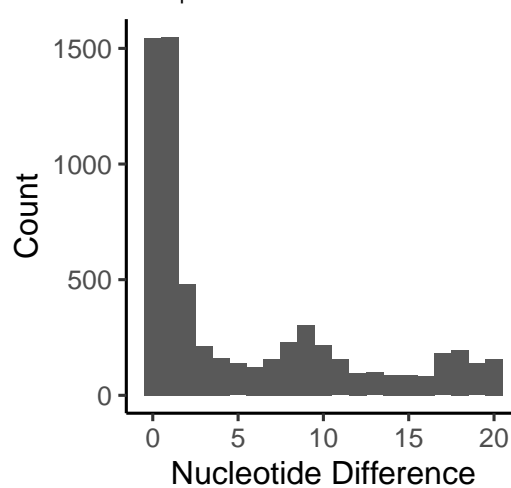
IGHV4-59*02

2561 sequences assigned
3 (0.1%) exact matches, in which:
3 unique CDR3
2 unique J



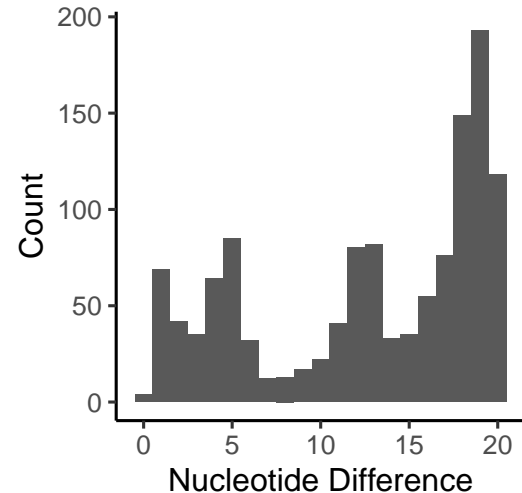
IGHV4-59*01_07

7350 sequences assigned
1544 (21%) exact matches, in which:
1223 unique CDR3
6 unique J



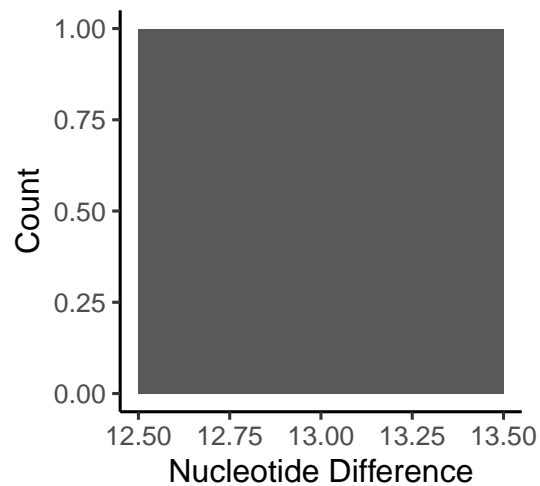
IGHV4-61*08

2104 sequences assigned
4 (0.2%) exact matches, in which:
4 unique CDR3
3 unique J



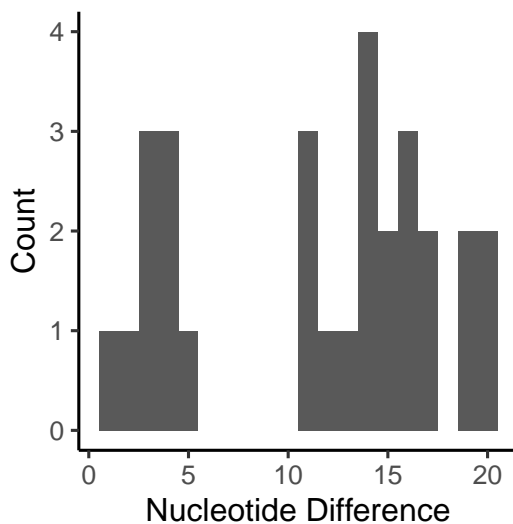
IGHV1/OR15-2*02_03

1 sequences assigned
No exact matches.



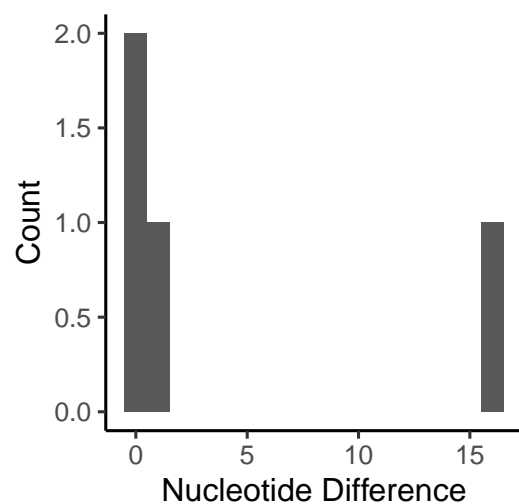
IGHV4/OR15-8*01

31 sequences assigned
No exact matches.



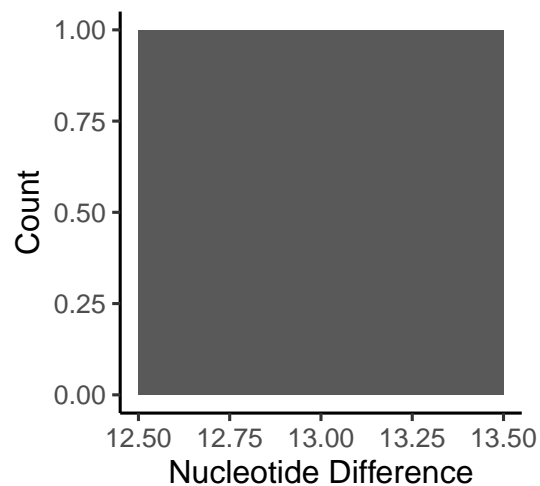
IGHV5-10-1*01_03

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



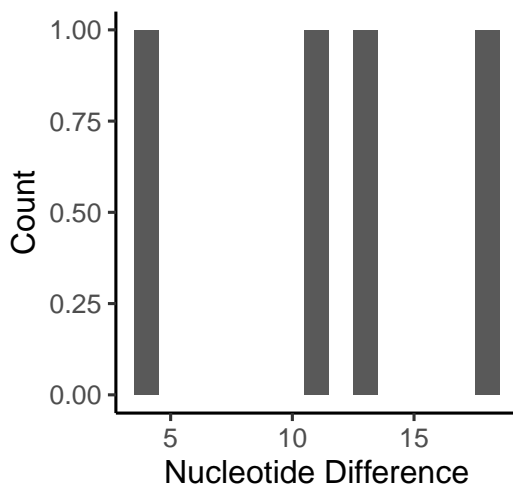
IGHV1/OR15-3*02

2 sequences assigned
No exact matches.



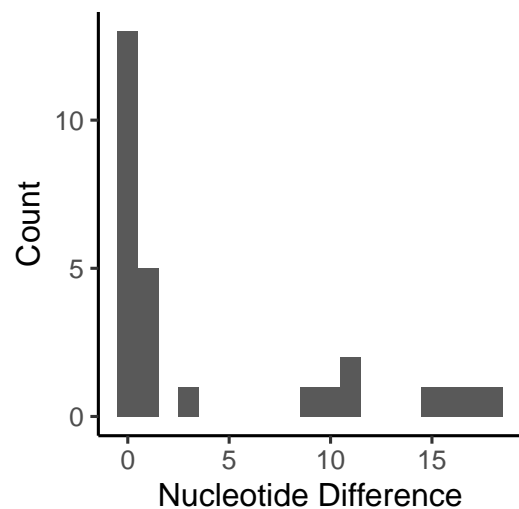
IGHV4/OR15-8*02

8 sequences assigned
No exact matches.



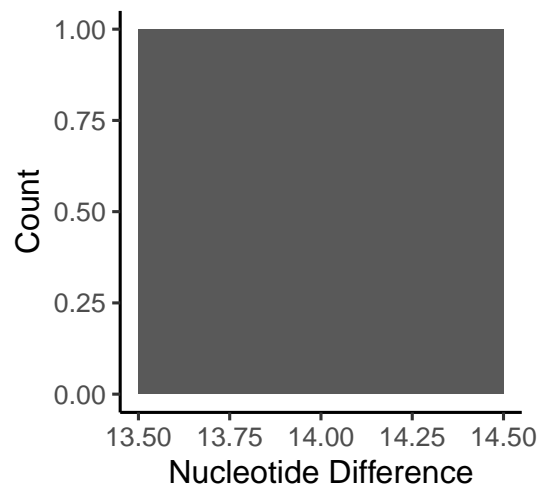
IGHV5-51*04

30 sequences assigned
13 (43.3%) exact matches, in which:
13 unique CDR3
5 unique J



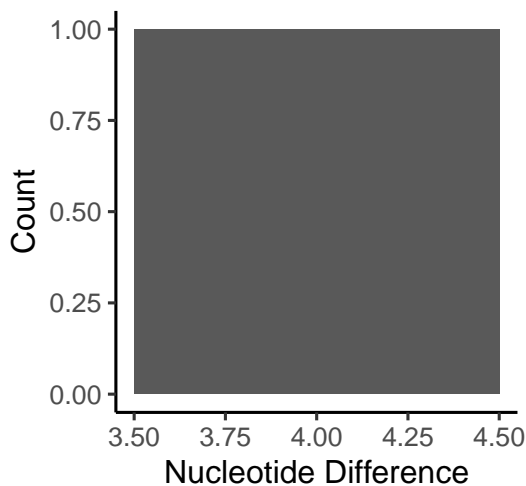
IGHV1/OR15-4*01

1 sequences assigned
No exact matches.



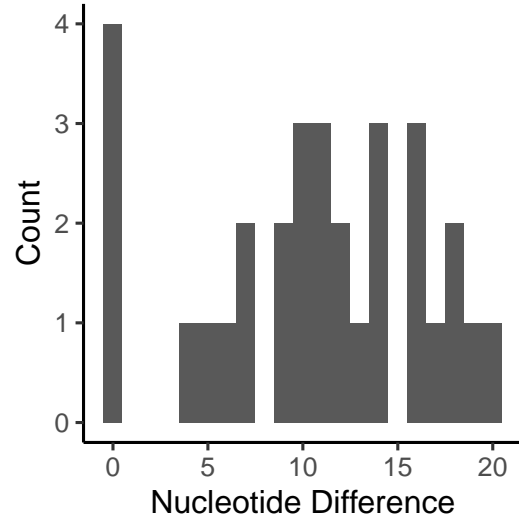
IGHV5-10-1*04

1 sequences assigned
No exact matches.



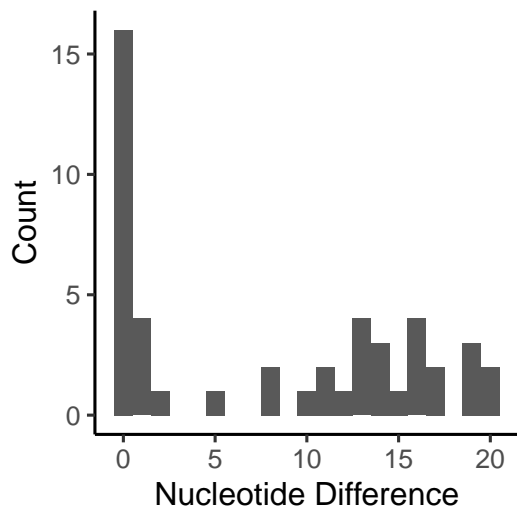
IGHV5-51*06

250 sequences assigned
4 (1.6%) exact matches, in which:
4 unique CDR3
2 unique J



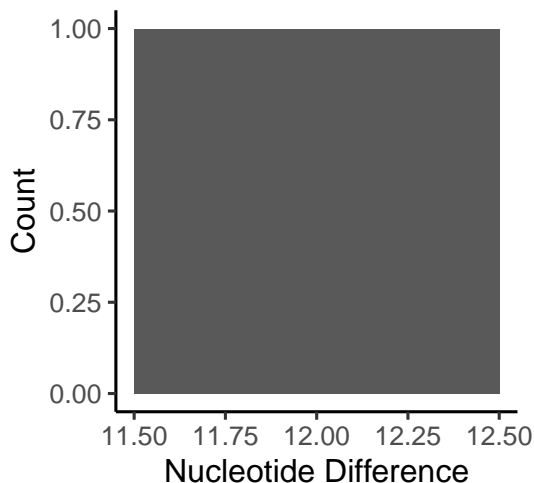
IGHV5-51*07

54 sequences assigned
16 (29.6%) exact matches, in which:
16 unique CDR3
3 unique J



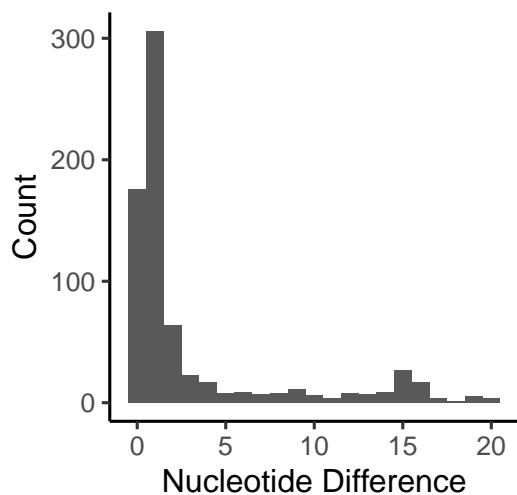
IGHV3/OR16-10*01_03

2 sequences assigned
No exact matches.



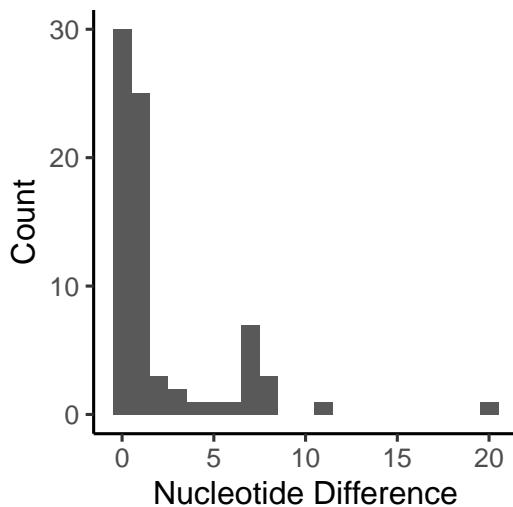
IGHV6-1*01_02

745 sequences assigned
176 (23.6%) exact matches, in which:
129 unique CDR3
5 unique J



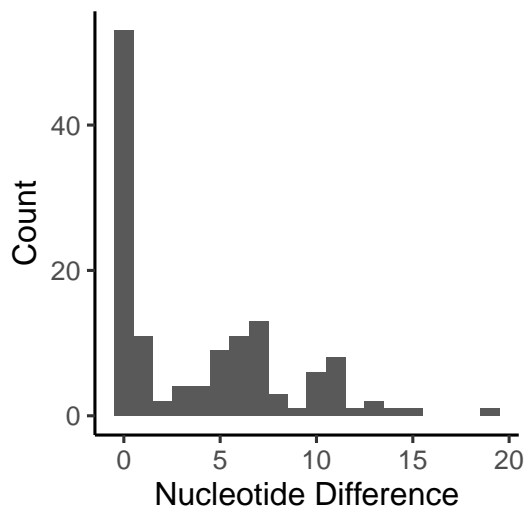
IGHV7-4-1*01

75 sequences assigned
30 (40%) exact matches, in which:
22 unique CDR3
5 unique J



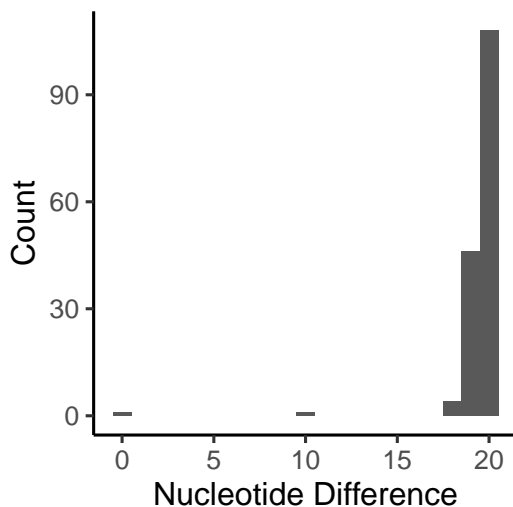
IGHV6-1*01_02_A315G

132 sequences assigned
53 (40.2%) exact matches, in which:
53 unique CDR3
5 unique J



IGHV7-4-1*02

223 sequences assigned
1 (0.4%) exact matches, in which:
1 unique CDR3
1 unique J



IGHV6-1*01_02_A315G

