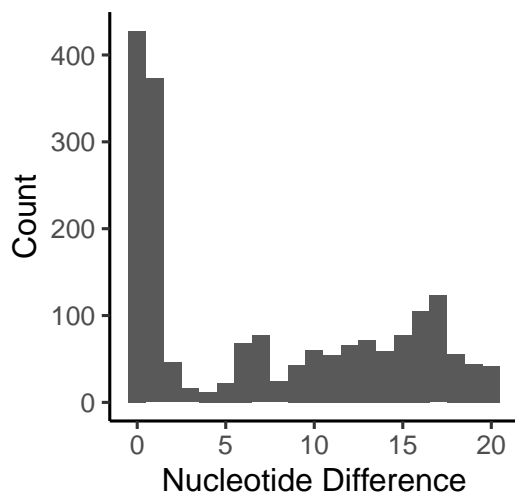


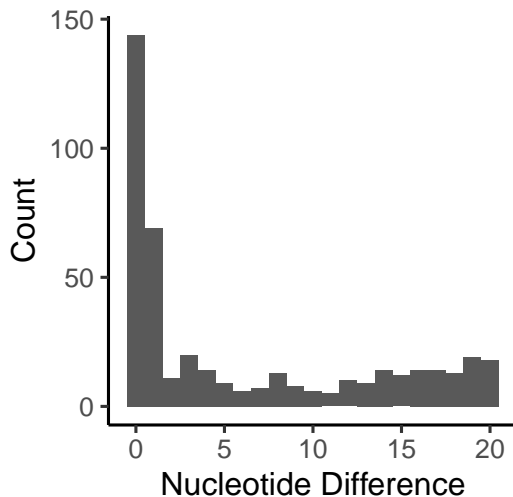
IGHV1-2*02

2323 sequences assigned
428 (18.4%) exact matches, in which:
335 unique CDR3
7 unique J



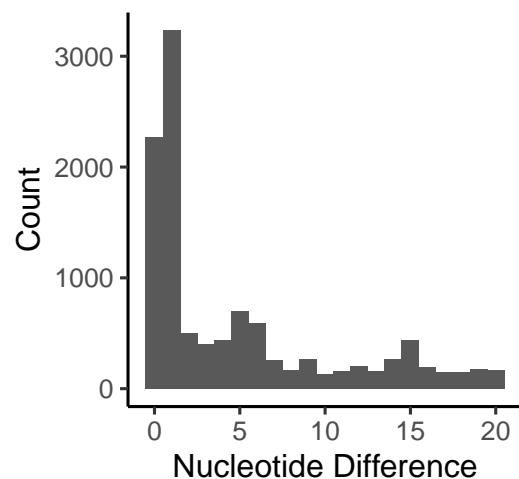
IGHV1-3*01_05

510 sequences assigned
144 (28.2%) exact matches, in which:
122 unique CDR3
6 unique J



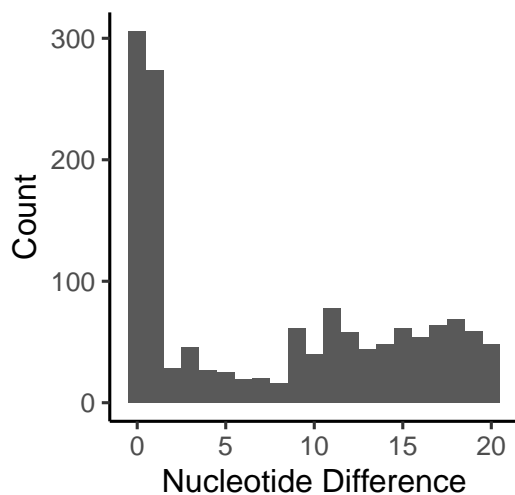
IGHV1-18*01

12029 sequences assigned
2273 (18.9%) exact matches, in which:
1466 unique CDR3
7 unique J



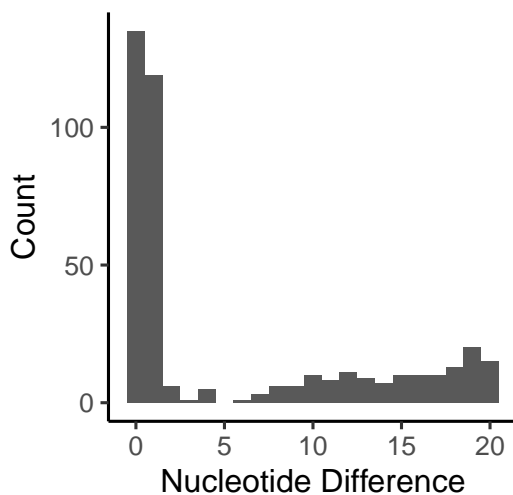
IGHV1-2*06

1742 sequences assigned
306 (17.6%) exact matches, in which:
242 unique CDR3
7 unique J



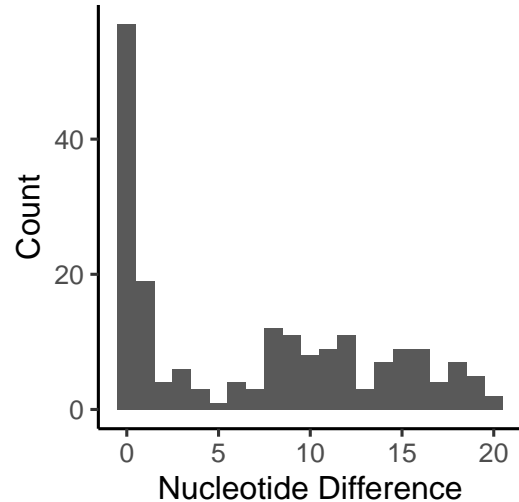
IGHV1-3*01_05_C134A

471 sequences assigned
135 (28.7%) exact matches, in which:
116 unique CDR3
7 unique J



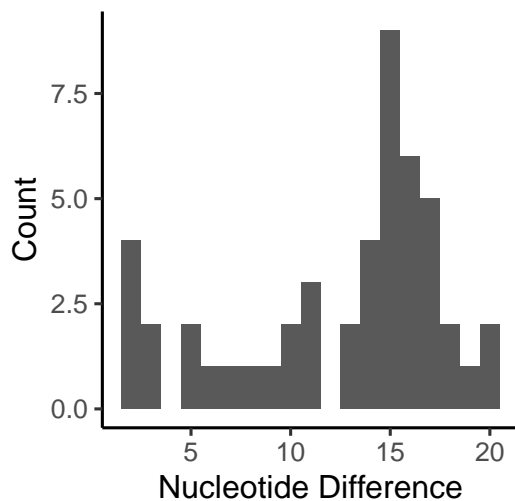
IGHV1-24*01

208 sequences assigned
57 (27.4%) exact matches, in which:
52 unique CDR3
7 unique J



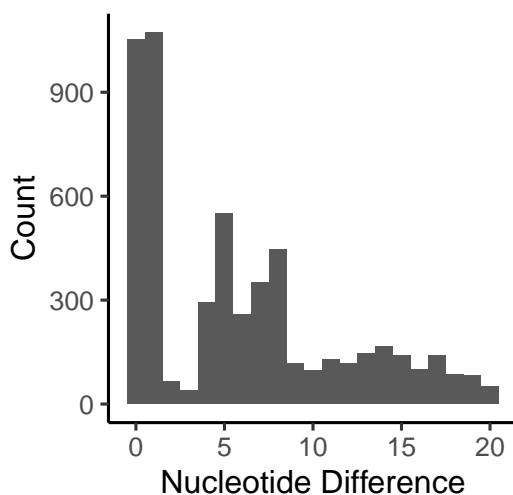
IGHV1-3*04

97 sequences assigned
No exact matches.



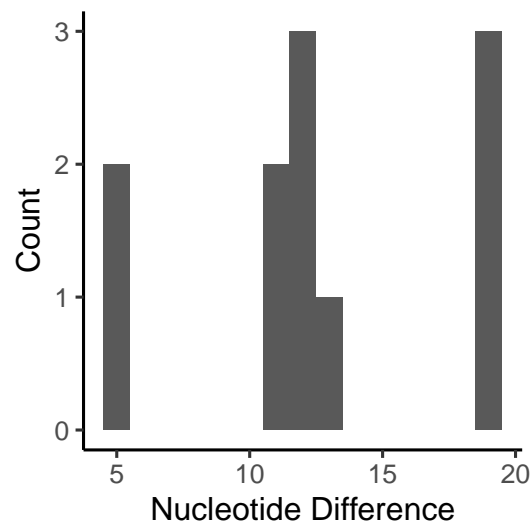
IGHV1-8*01

5840 sequences assigned
1052 (18%) exact matches, in which:
739 unique CDR3
7 unique J



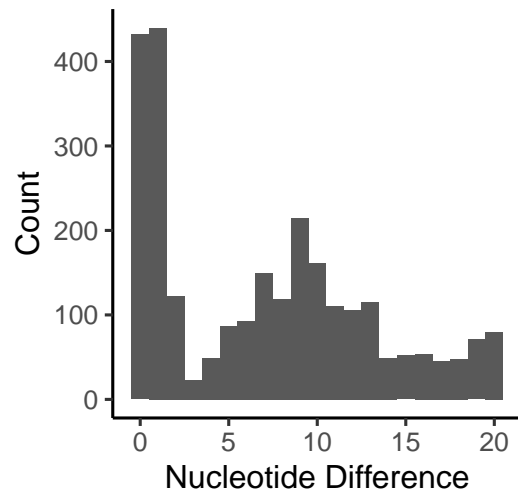
IGHV1-45*02

11 sequences assigned
No exact matches.



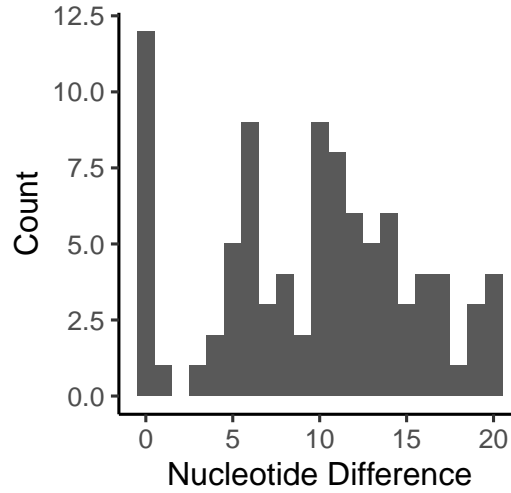
IGHV1-46*01

3116 sequences assigned
432 (13.9%) exact matches, in which:
316 unique CDR3
7 unique J



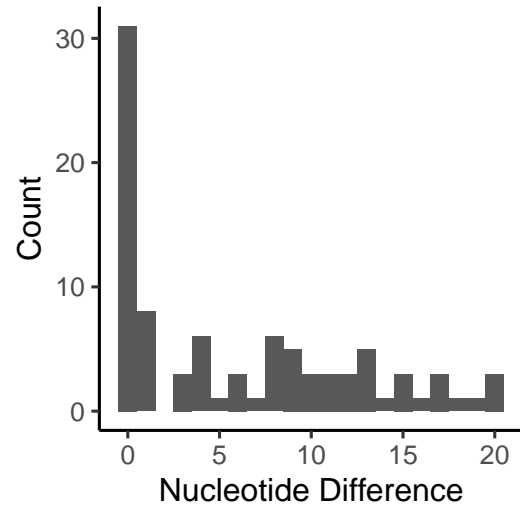
IGHV1-69-2*01

112 sequences assigned
12 (10.7%) exact matches, in which:
12 unique CDR3
4 unique J



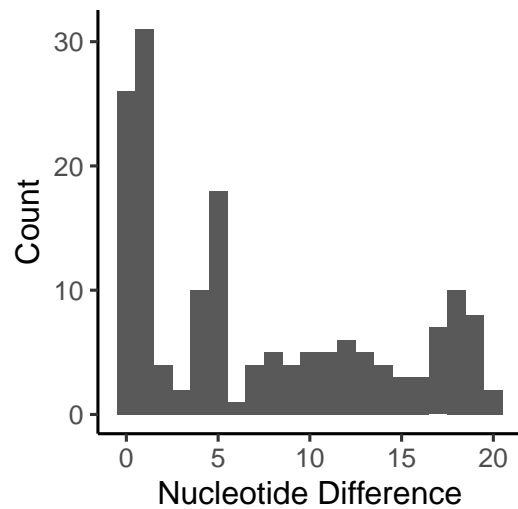
IGHV2-5*01

95 sequences assigned
31 (32.6%) exact matches, in which:
25 unique CDR3
5 unique J



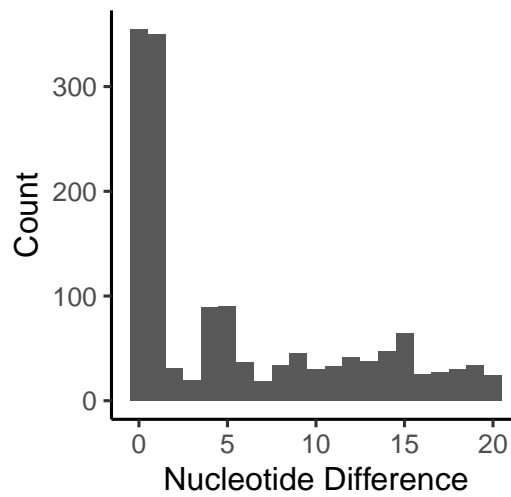
IGHV1-58*02

249 sequences assigned
26 (10.4%) exact matches, in which:
22 unique CDR3
6 unique J



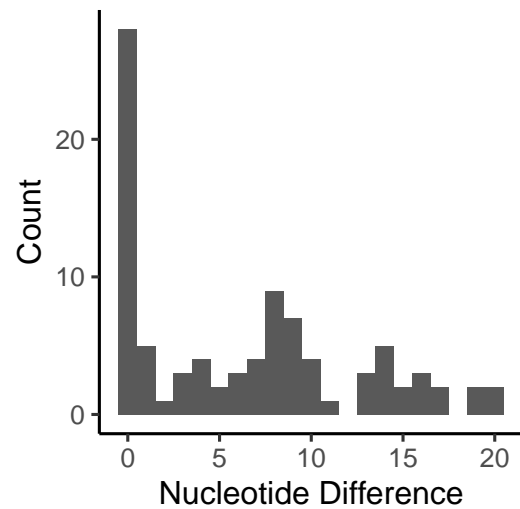
IGHV1-69*05

1730 sequences assigned
355 (20.5%) exact matches, in which:
261 unique CDR3
7 unique J



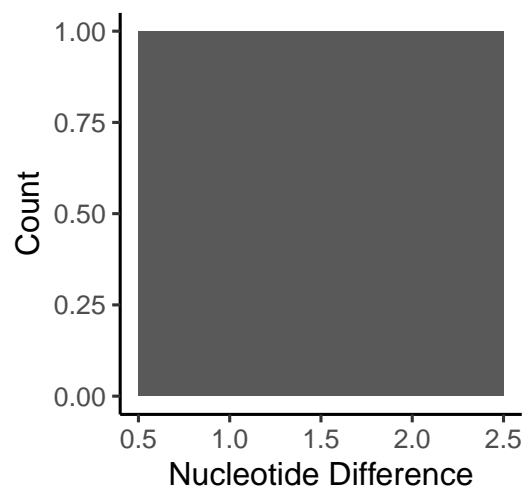
IGHV2-5*01_C49G

92 sequences assigned
28 (30.4%) exact matches, in which:
27 unique CDR3
7 unique J



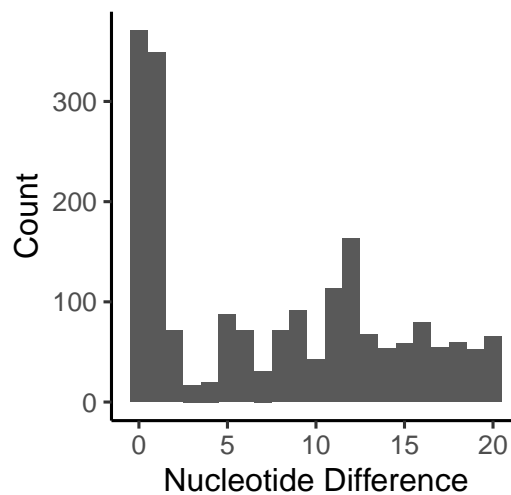
IGHV1-68*02_03

2 sequences assigned
No exact matches.



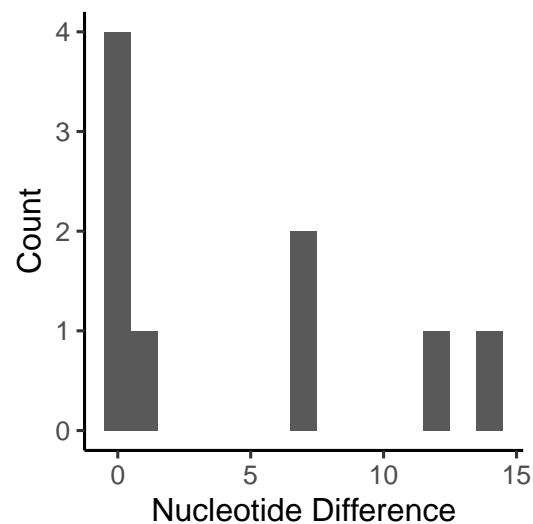
IGHV1-69*01_12_13

2546 sequences assigned
371 (14.6%) exact matches, in which:
279 unique CDR3
7 unique J



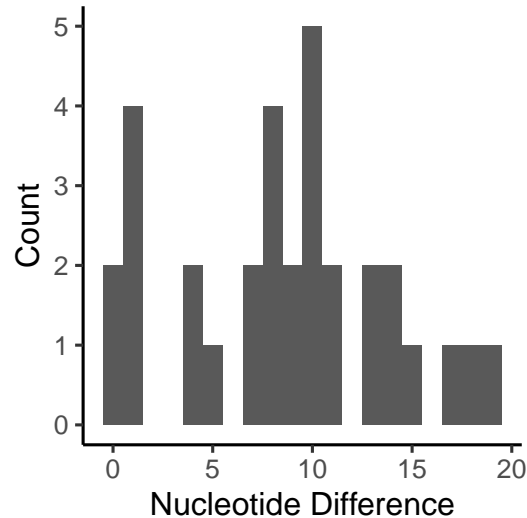
IGHV2-26*01

9 sequences assigned
4 (44.4%) exact matches, in which:
3 unique CDR3
3 unique J



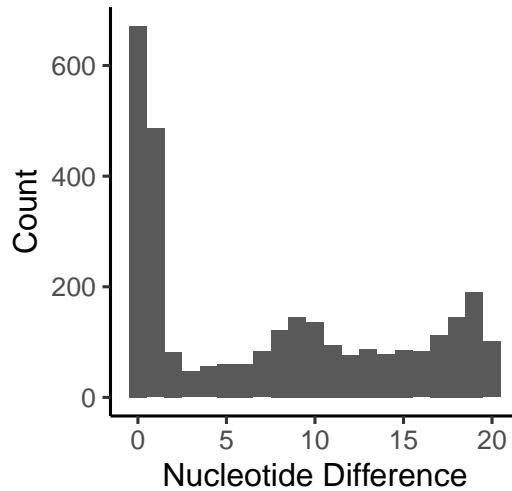
IGHV2-70*20

34 sequences assigned
2 (5.9%) exact matches, in which:
2 unique CDR3
1 unique J



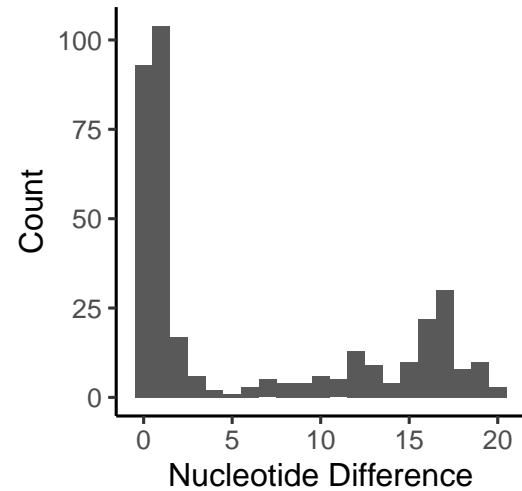
IGHV3-7*01

3432 sequences assigned
672 (19.6%) exact matches, in which:
533 unique CDR3
7 unique J



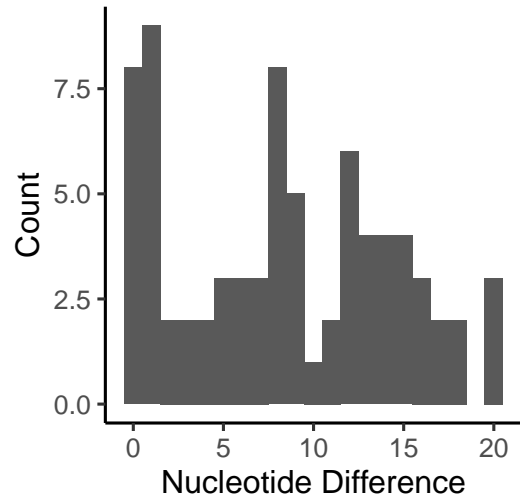
IGHV3-13*01

369 sequences assigned
93 (25.2%) exact matches, in which:
66 unique CDR3
6 unique J



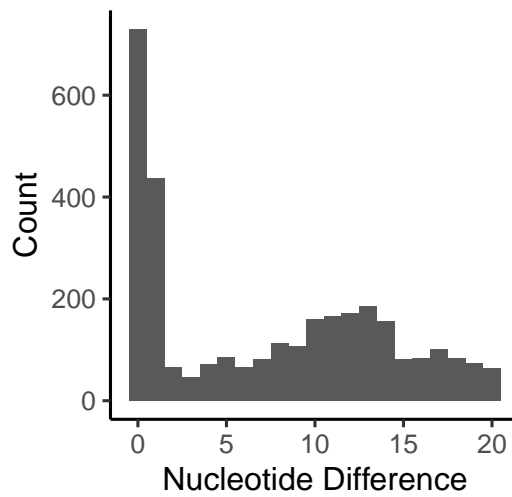
IGHV2-70*11_15

78 sequences assigned
8 (10.3%) exact matches, in which:
7 unique CDR3
3 unique J



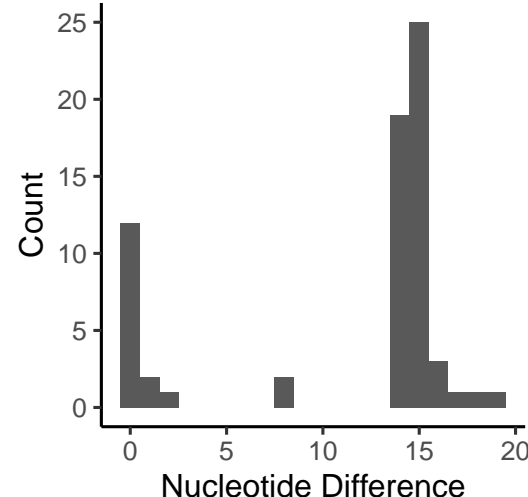
IGHV3-9*01

3516 sequences assigned
730 (20.8%) exact matches, in which:
572 unique CDR3
7 unique J



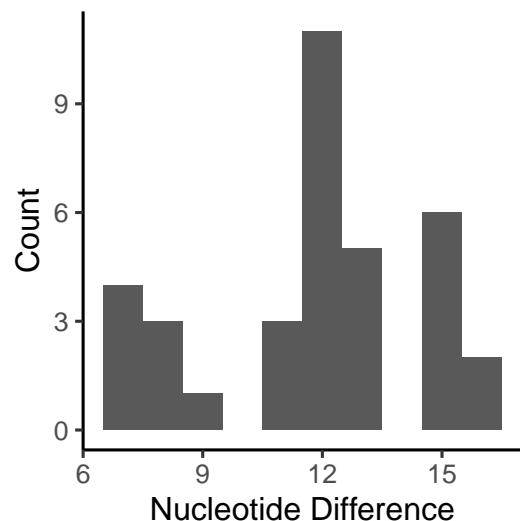
IGHV3-13*01_C210T

71 sequences assigned
12 (16.9%) exact matches, in which:
9 unique CDR3
4 unique J



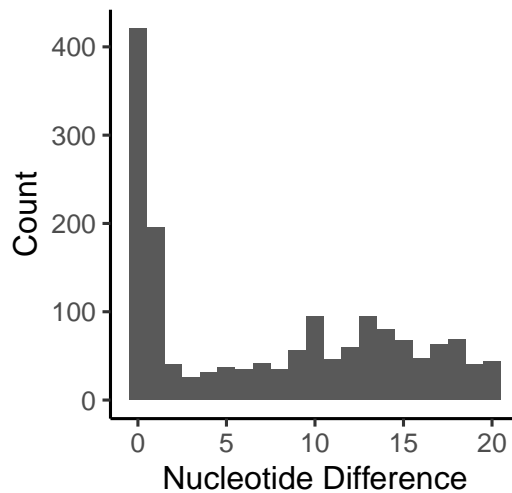
IGHV2-70*16_17

35 sequences assigned
No exact matches.



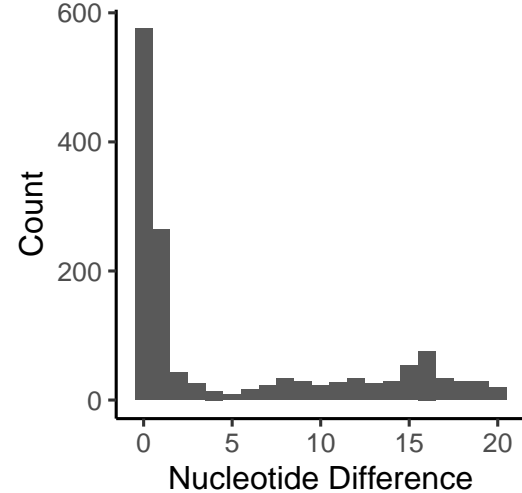
IGHV3-11*01

1878 sequences assigned
421 (22.4%) exact matches, in which:
358 unique CDR3
7 unique J



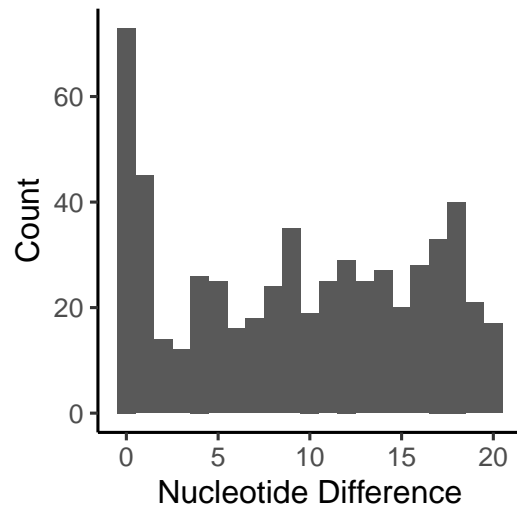
IGHV3-15*01_02

1559 sequences assigned
576 (36.9%) exact matches, in which:
505 unique CDR3
7 unique J



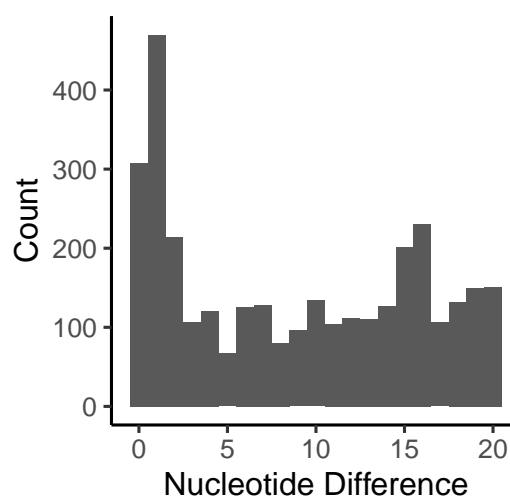
IGHV3-20*03_04

627 sequences assigned
73 (11.6%) exact matches, in which:
58 unique CDR3
6 unique J



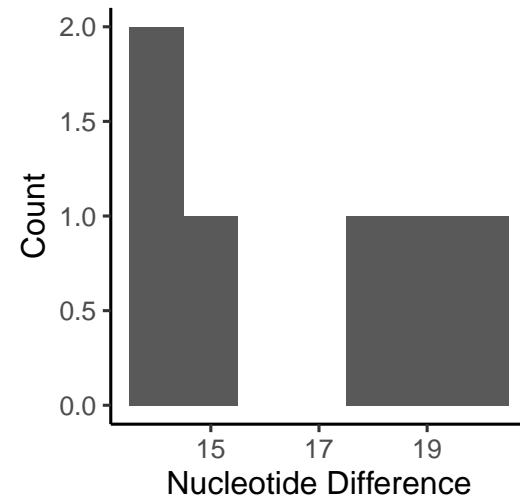
IGHV3-23*03

4103 sequences assigned
308 (7.5%) exact matches, in which:
270 unique CDR3
6 unique J



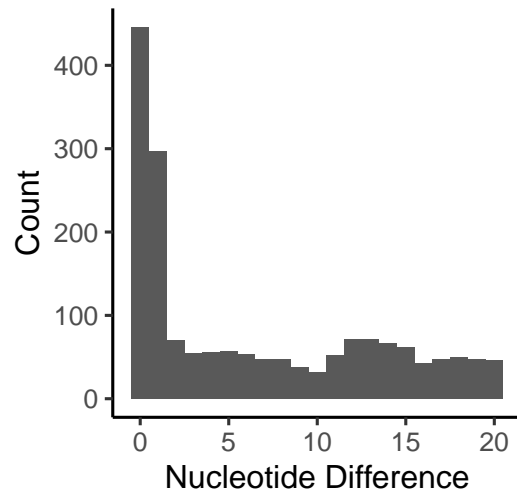
IGHV3-30-5*02

7 sequences assigned
No exact matches.



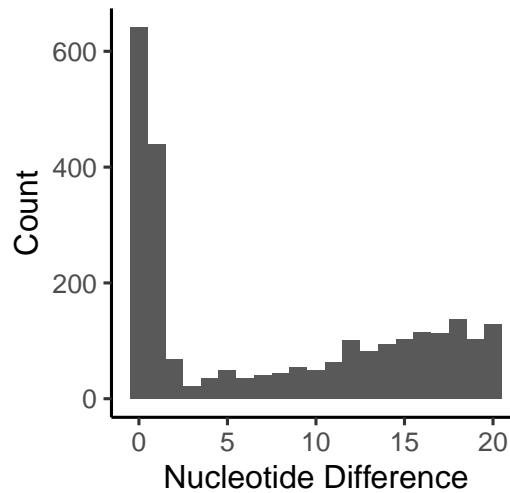
IGHV3-21*03

1933 sequences assigned
446 (23.1%) exact matches, in which:
342 unique CDR3
7 unique J



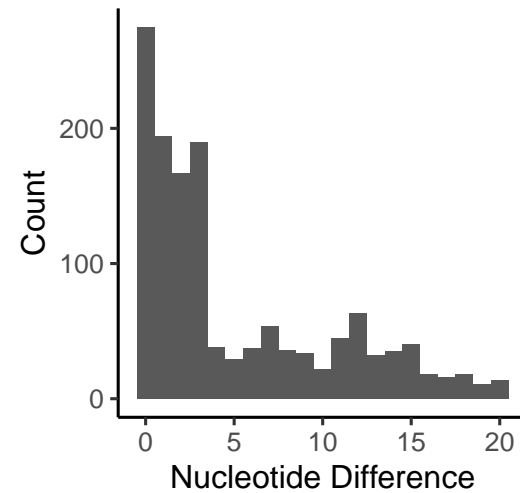
IGHV3-23*01_04

3034 sequences assigned
642 (21.2%) exact matches, in which:
488 unique CDR3
7 unique J



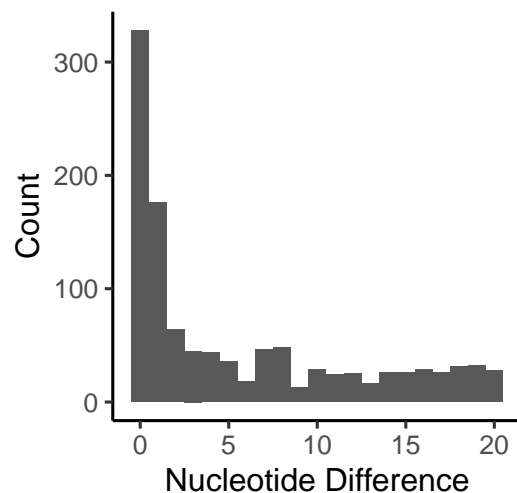
IGHV3-30*18_C170G_A

1461 sequences assigned
275 (18.8%) exact matches, in which:
237 unique CDR3
6 unique J



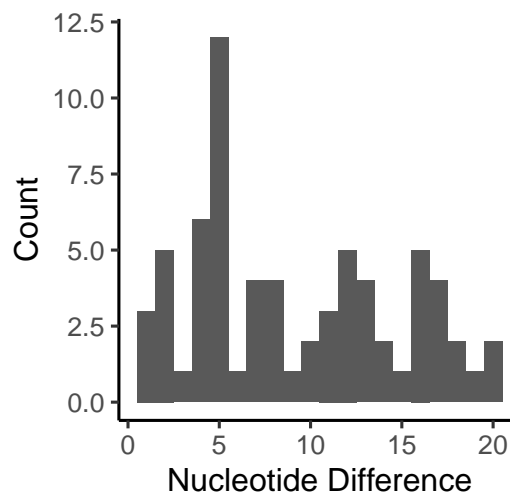
IGHV3-21*01_02

1279 sequences assigned
328 (25.6%) exact matches, in which:
275 unique CDR3
7 unique J



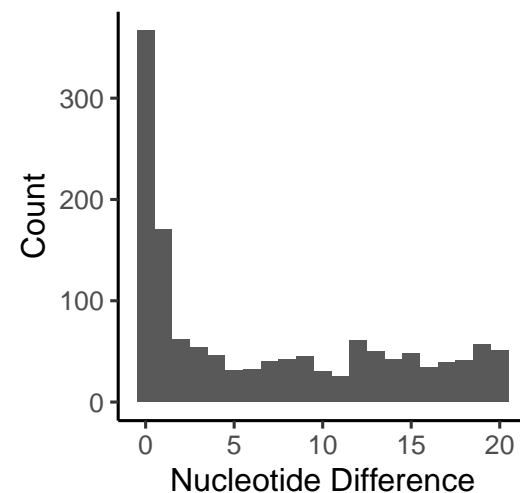
IGHV3-30-5*01

110 sequences assigned
No exact matches.



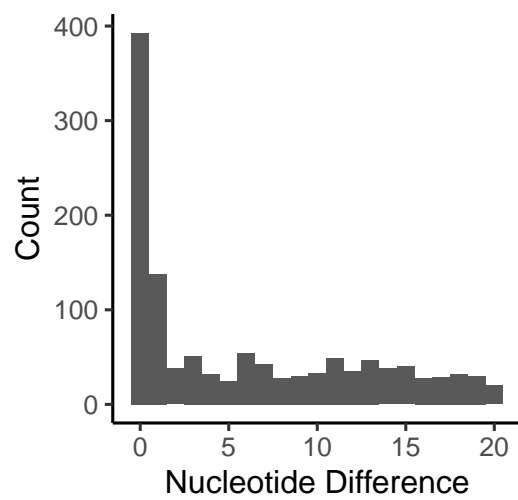
IGHV3-33*01

1490 sequences assigned
367 (24.6%) exact matches, in which:
243 unique CDR3
7 unique J



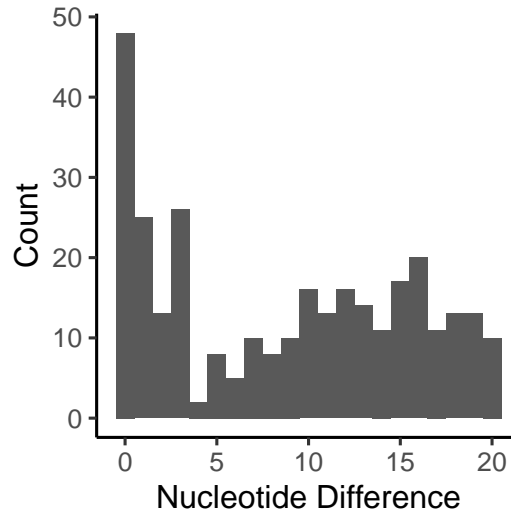
IGHV3–33*06

1297 sequences assigned
393 (30.3%) exact matches, in which:
250 unique CDR3
6 unique J



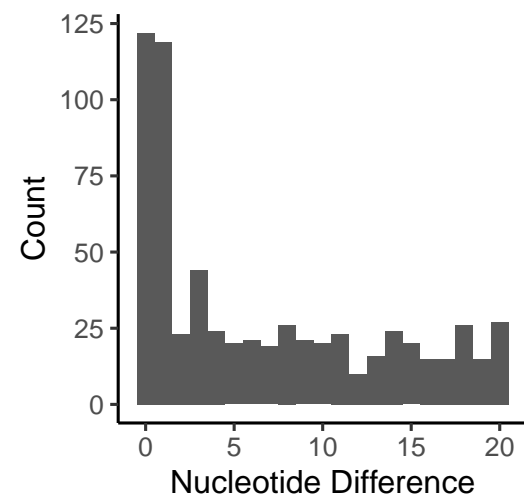
IGHV3–43*01

357 sequences assigned
48 (13.4%) exact matches, in which:
45 unique CDR3
5 unique J



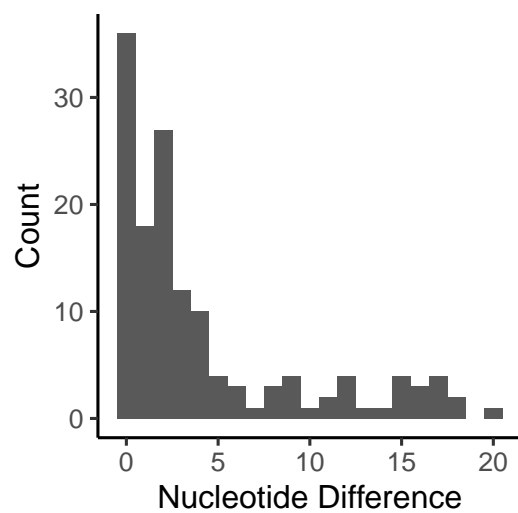
IGHV3–49*03_05

722 sequences assigned
122 (16.9%) exact matches, in which:
98 unique CDR3
6 unique J



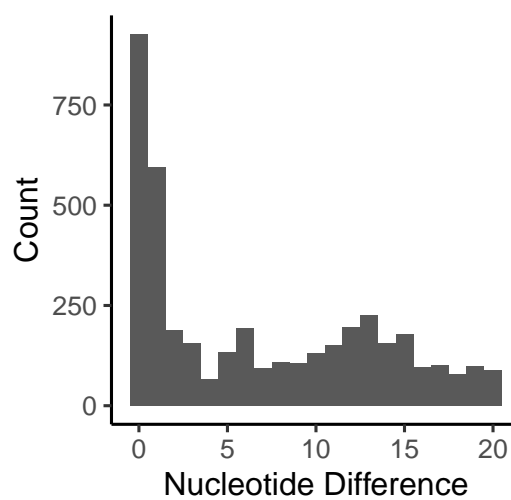
IGHV3–33*08

151 sequences assigned
36 (23.8%) exact matches, in which:
36 unique CDR3
6 unique J



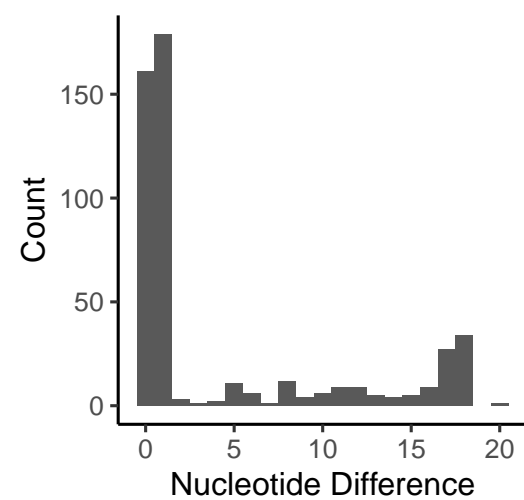
IGHV3–48*03

4493 sequences assigned
927 (20.6%) exact matches, in which:
728 unique CDR3
7 unique J



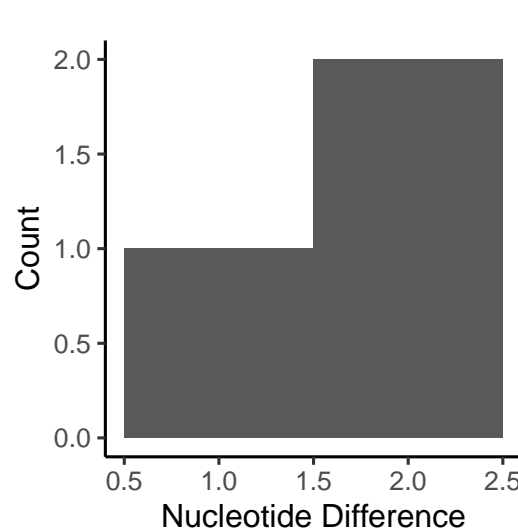
IGHV3–53*04

514 sequences assigned
161 (31.3%) exact matches, in which:
100 unique CDR3
6 unique J



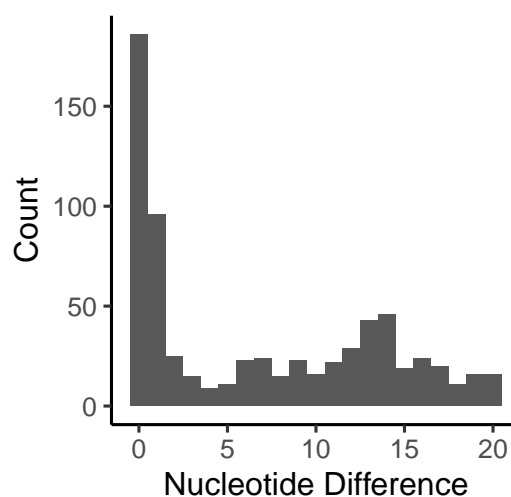
IGHV3–35*02

3 sequences assigned
No exact matches.



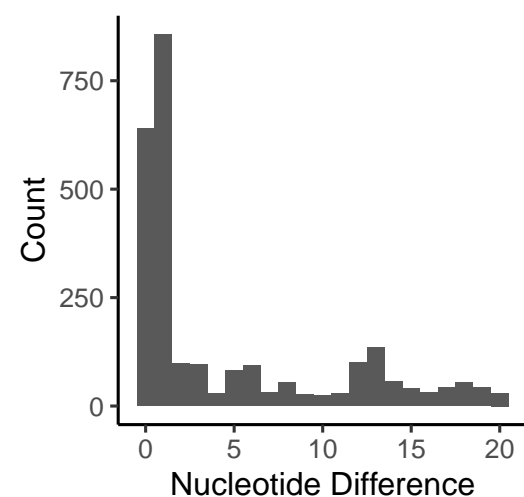
IGHV3–49*04

804 sequences assigned
186 (23.1%) exact matches, in which:
144 unique CDR3
6 unique J



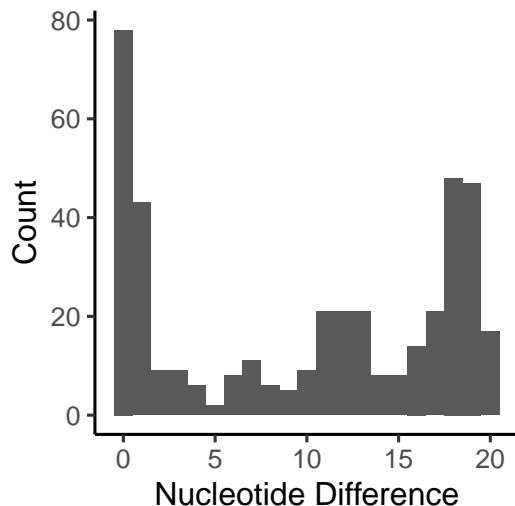
IGHV3–53*05

2869 sequences assigned
639 (22.3%) exact matches, in which:
410 unique CDR3
7 unique J



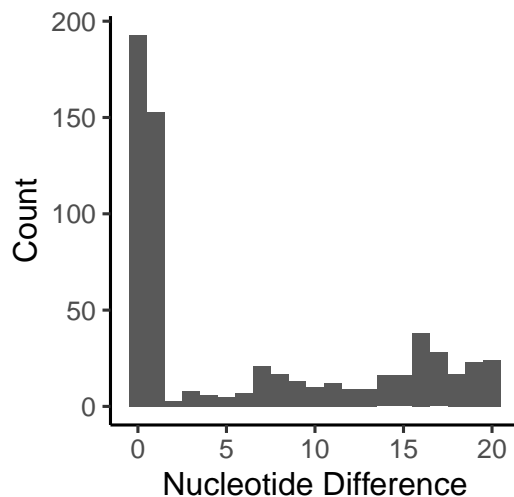
IGHV3-64*01

463 sequences assigned
78 (16.8%) exact matches, in which:
66 unique CDR3
7 unique J



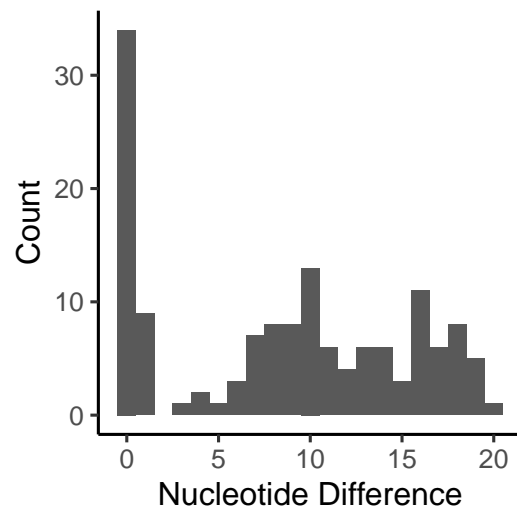
IGHV3-66*02

761 sequences assigned
193 (25.4%) exact matches, in which:
137 unique CDR3
7 unique J



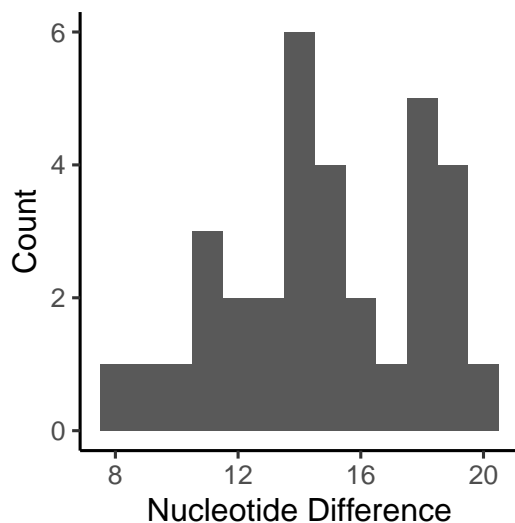
IGHV3-72*01

201 sequences assigned
34 (16.9%) exact matches, in which:
32 unique CDR3
3 unique J



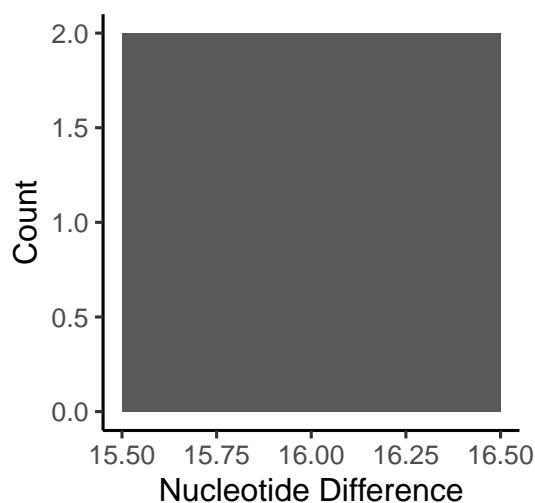
IGHV3-64*02_07

57 sequences assigned
No exact matches.



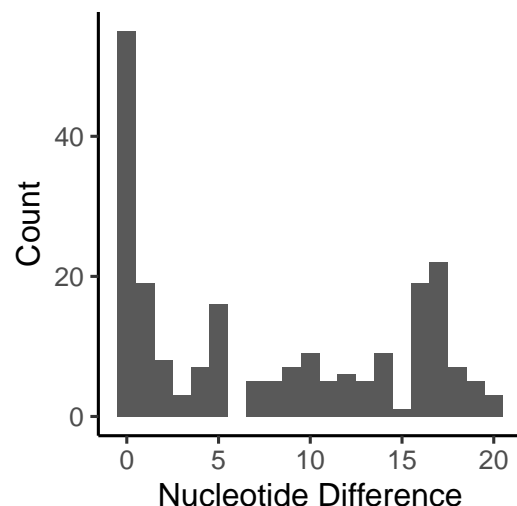
IGHV3-69-1*01

3 sequences assigned
No exact matches.



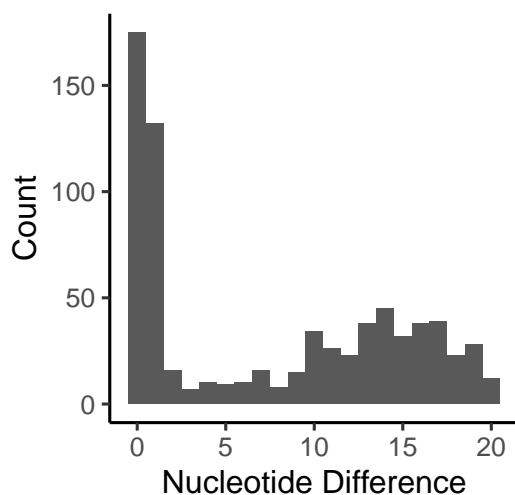
IGHV3-73*01_02

252 sequences assigned
55 (21.8%) exact matches, in which:
47 unique CDR3
6 unique J



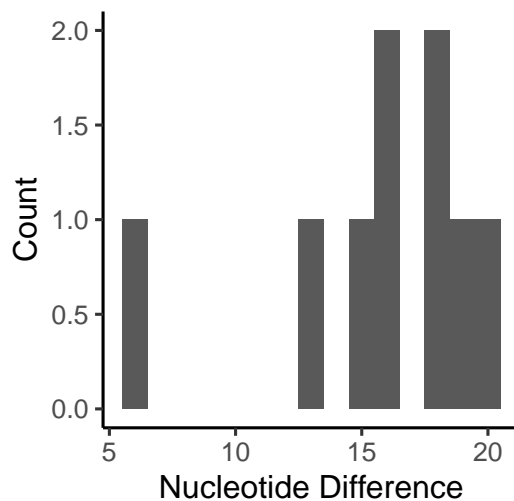
IGHV3-66*01

909 sequences assigned
175 (19.3%) exact matches, in which:
143 unique CDR3
6 unique J



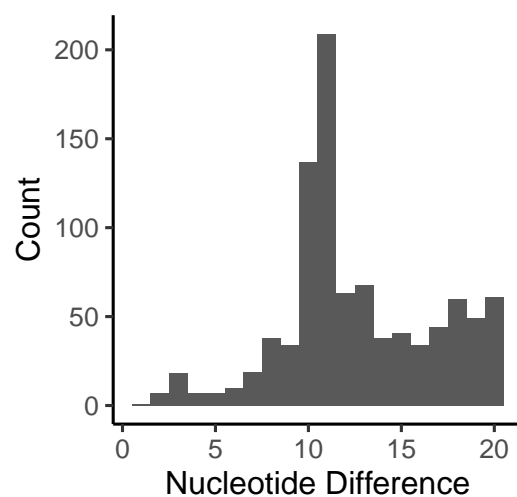
IGHV3-69-1*02

11 sequences assigned
No exact matches.



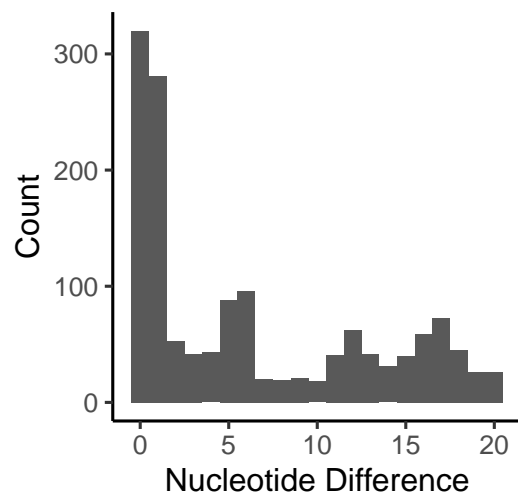
IGHV3-74*03

1237 sequences assigned
No exact matches.



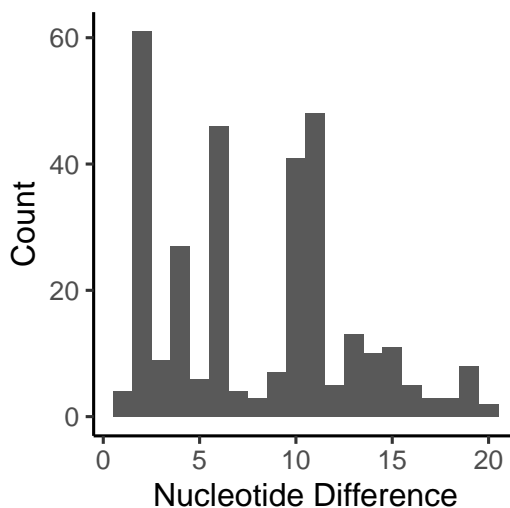
IGHV3-74*01_02

1633 sequences assigned
320 (19.6%) exact matches, in which:
233 unique CDR3
7 unique J



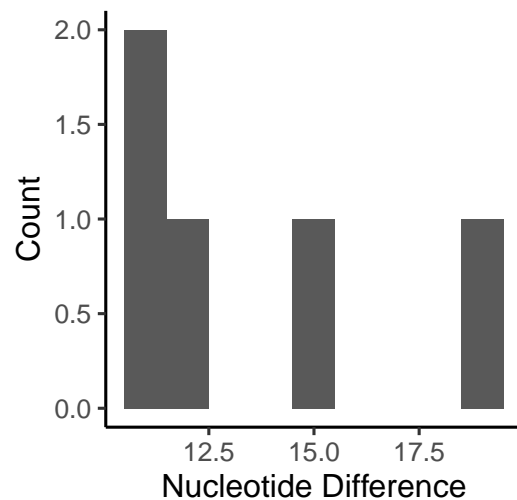
IGHV4-4*07

327 sequences assigned
No exact matches.



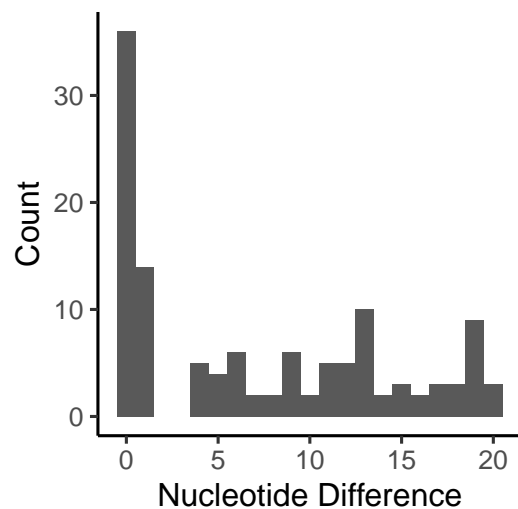
IGHV4-28*02_05

8 sequences assigned
No exact matches.



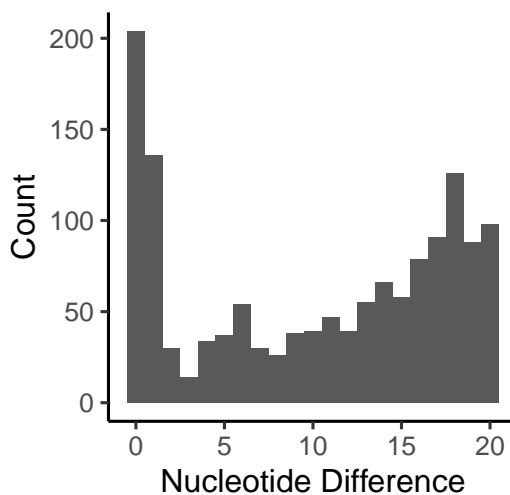
IGHV3-43D*03

128 sequences assigned
36 (28.1%) exact matches, in which:
30 unique CDR3
5 unique J



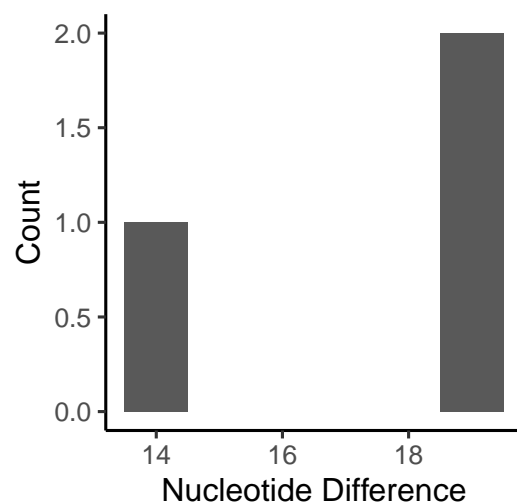
IGHV4-4*02_03

1696 sequences assigned
204 (12%) exact matches, in which:
119 unique CDR3
7 unique J



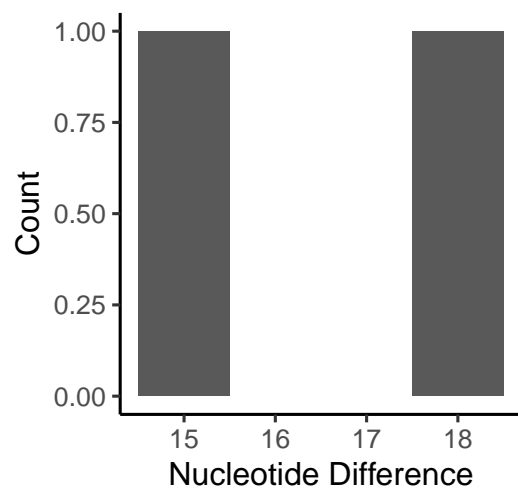
IGHV4-30-4*01

9 sequences assigned
No exact matches.



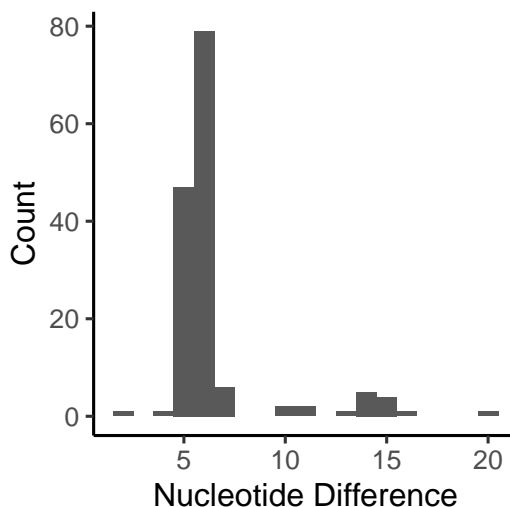
IGHV3-NL1*01

3 sequences assigned
No exact matches.



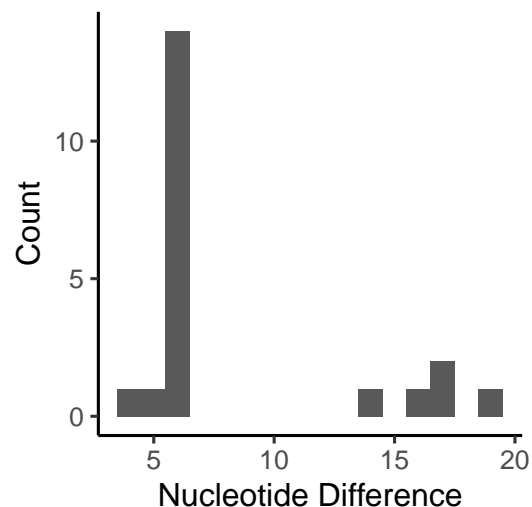
IGHV4-28*01_07

157 sequences assigned
No exact matches.



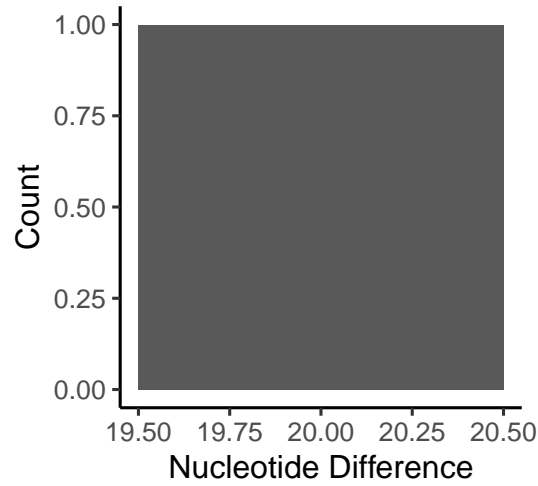
IGHV4-30-4*07

22 sequences assigned
No exact matches.



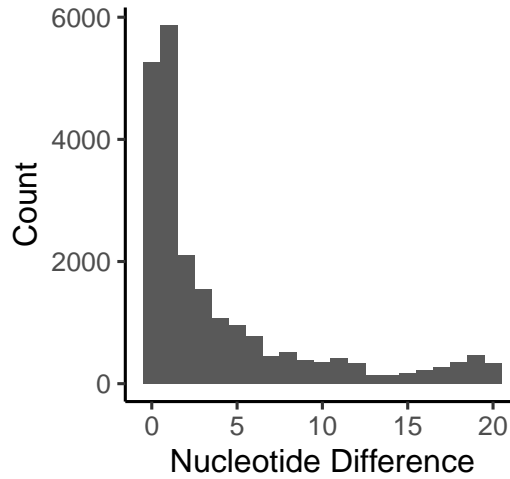
IGHV4-30-4*08

5 sequences assigned
No exact matches.



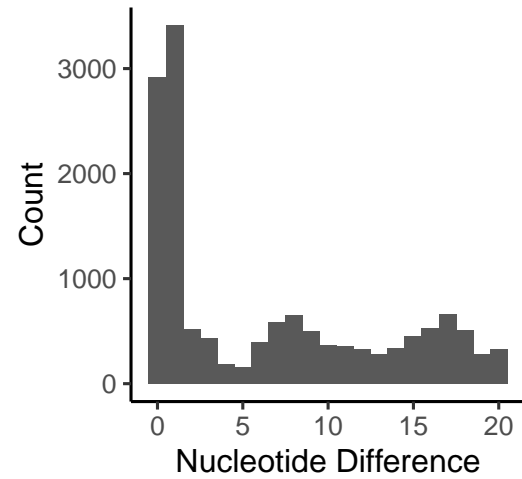
IGHV4-34*01_02

23175 sequences assigned
5264 (22.7%) exact matches, in which:
2992 unique CDR3
7 unique J



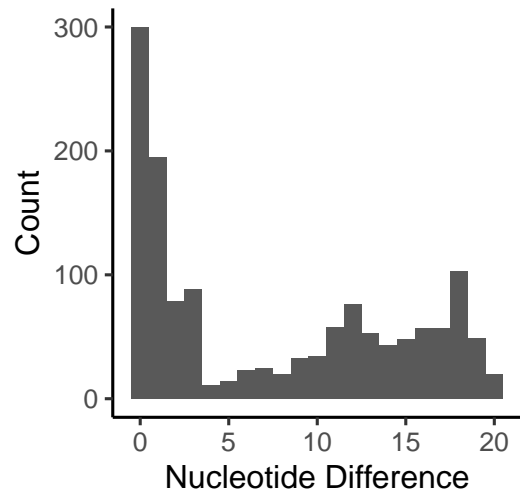
IGHV4-39*07

16974 sequences assigned
2922 (17.2%) exact matches, in which:
1720 unique CDR3
7 unique J



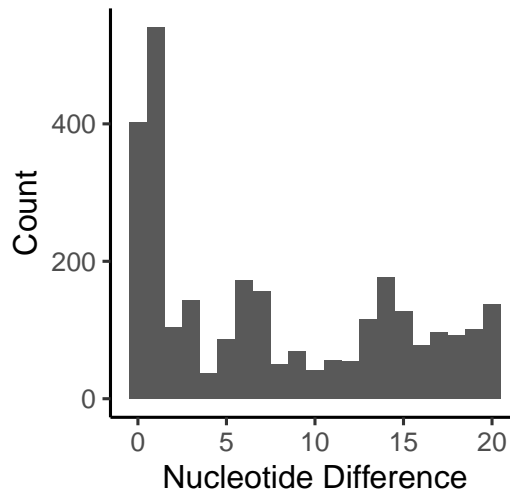
IGHV4-30-2*01_C285T_

1550 sequences assigned
300 (19.4%) exact matches, in which:
161 unique CDR3
7 unique J



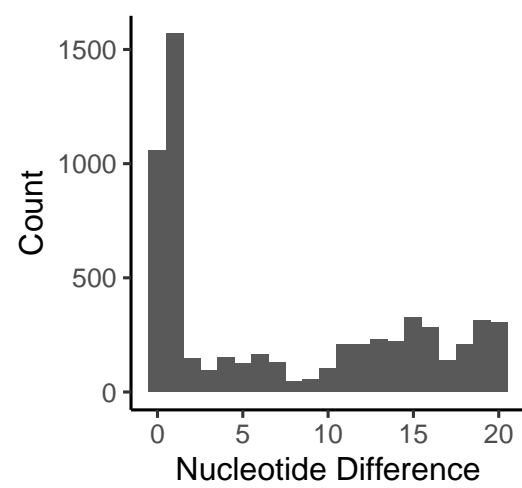
IGHV4-38-2*02

3192 sequences assigned
403 (12.6%) exact matches, in which:
223 unique CDR3
7 unique J



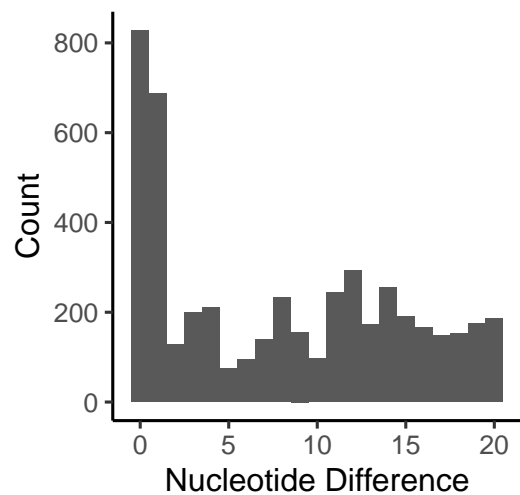
IGHV4-59*08

8820 sequences assigned
1057 (12%) exact matches, in which:
609 unique CDR3
7 unique J



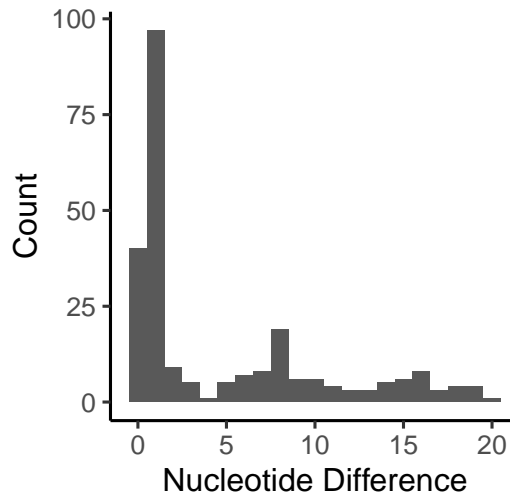
IGHV4-31*02

5895 sequences assigned
828 (14%) exact matches, in which:
483 unique CDR3
7 unique J



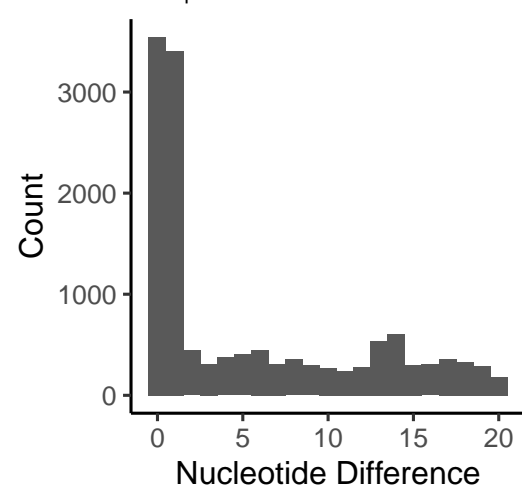
IGHV4-38-2*02_A291G

285 sequences assigned
40 (14%) exact matches, in which:
40 unique CDR3
6 unique J



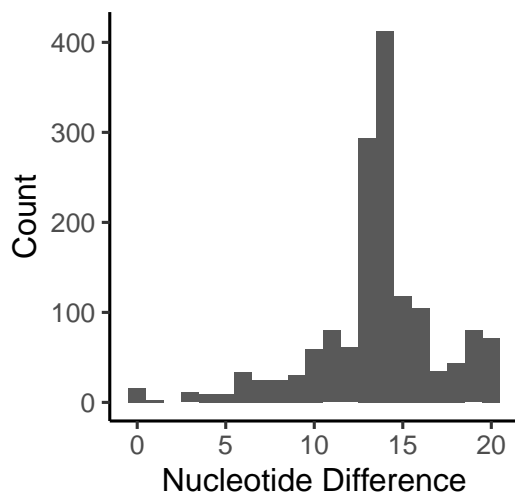
IGHV4-59*01_07

15216 sequences assigned
3544 (23.3%) exact matches, in which:
2062 unique CDR3
7 unique J



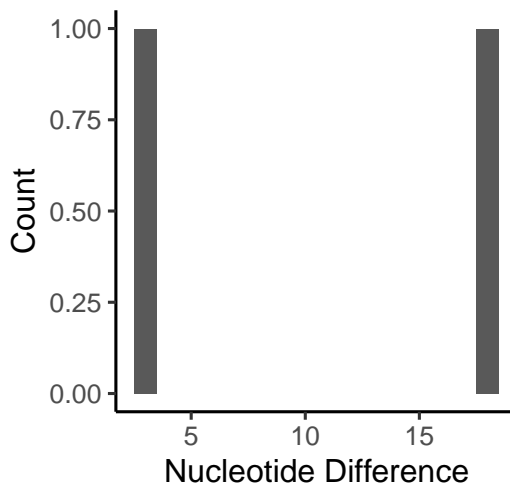
IGHV4–59*11

2287 sequences assigned
16 (0.7%) exact matches, in which:
13 unique CDR3
6 unique J



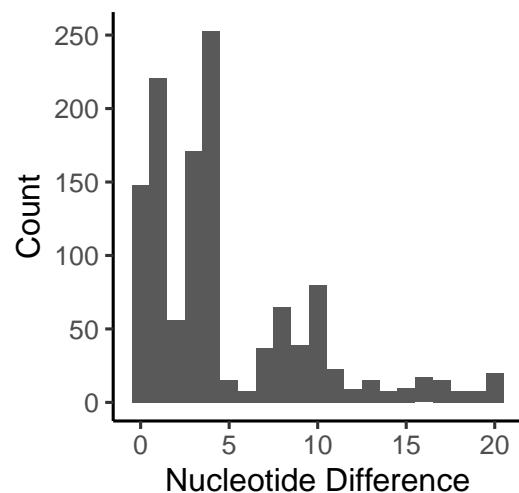
IGHV4/OR15–8*01

6 sequences assigned
No exact matches.



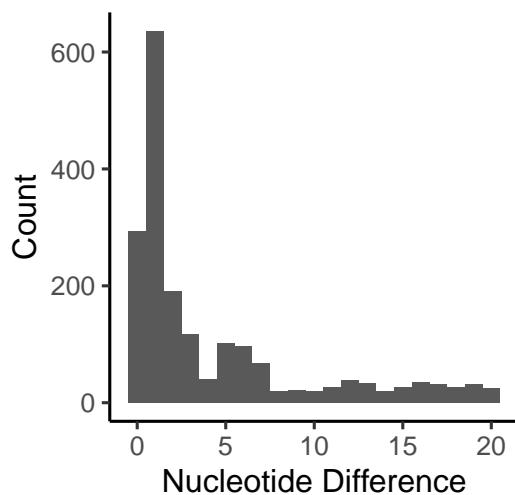
IGHV6–1*01_02

1279 sequences assigned
148 (11.6%) exact matches, in which:
81 unique CDR3
5 unique J



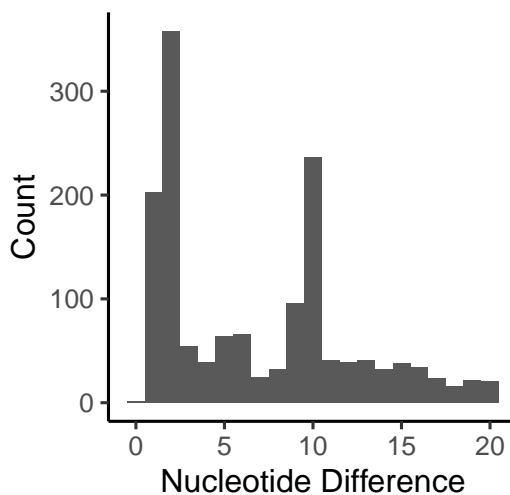
IGHV4–59*12

2192 sequences assigned
294 (13.4%) exact matches, in which:
283 unique CDR3
7 unique J



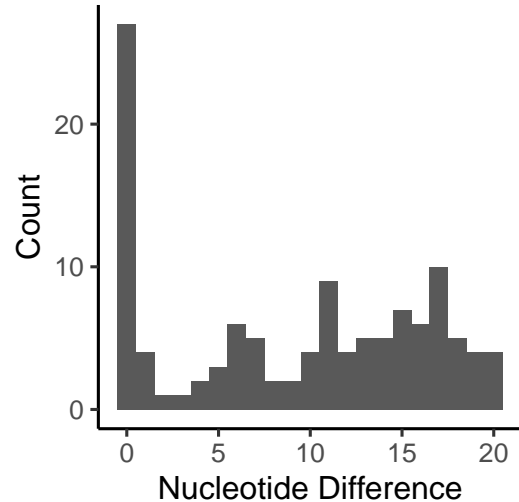
IGHV5–51*07

1591 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



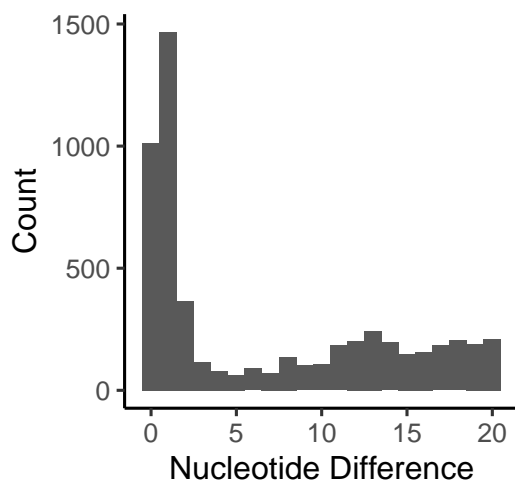
IGHV7–4–1*02

139 sequences assigned
27 (19.4%) exact matches, in which:
27 unique CDR3
5 unique J



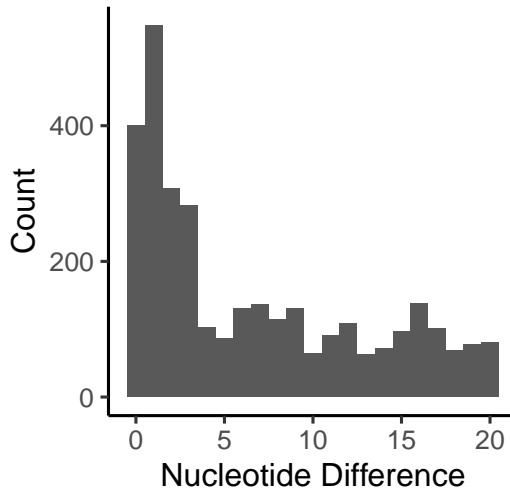
IGHV4–61*02

6266 sequences assigned
1014 (16.2%) exact matches, in which:
578 unique CDR3
7 unique J



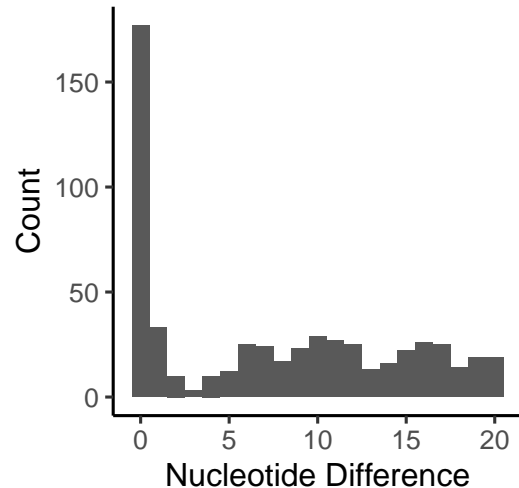
IGHV5–51*01_03

3928 sequences assigned
400 (10.2%) exact matches, in which:
304 unique CDR3
7 unique J



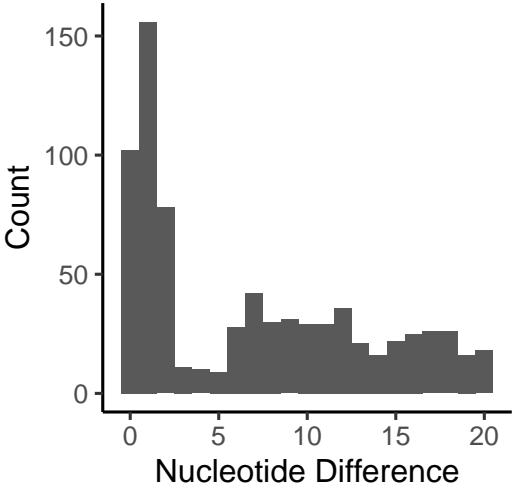
IGHV7–4–1*02_A18G

688 sequences assigned
177 (25.7%) exact matches, in which:
92 unique CDR3
6 unique J

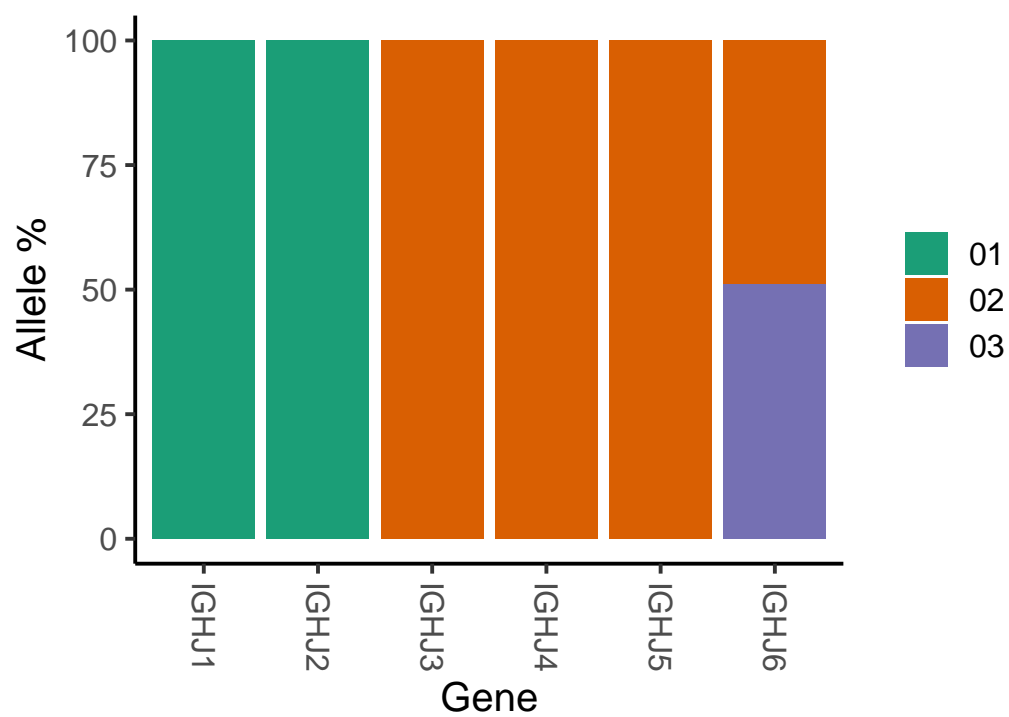


IGHV7-4-1*02_A18G_T25G_T34G

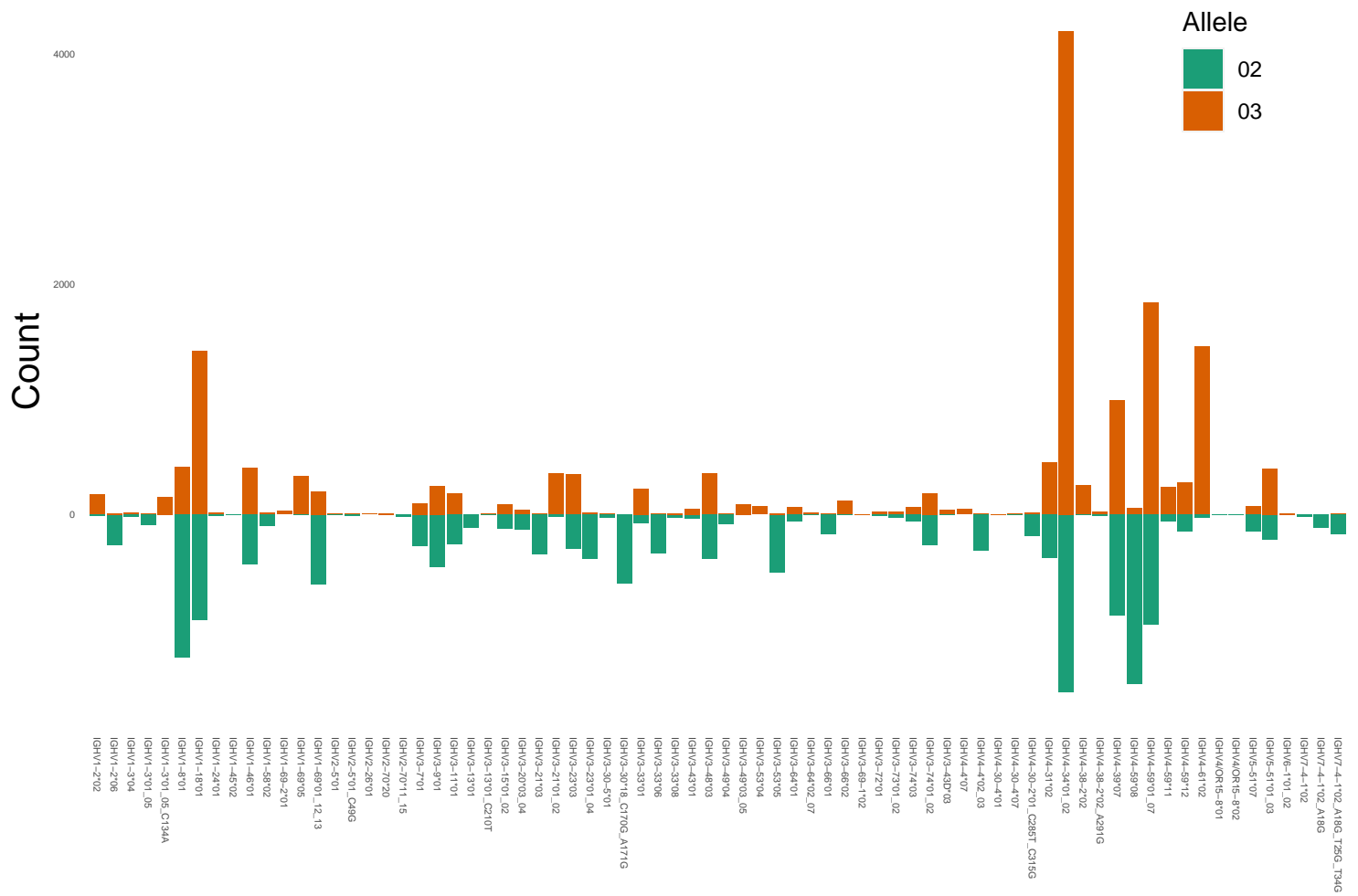
919 sequences assigned
102 (11.1%) exact matches, in which:
66 unique CDR3
6 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.