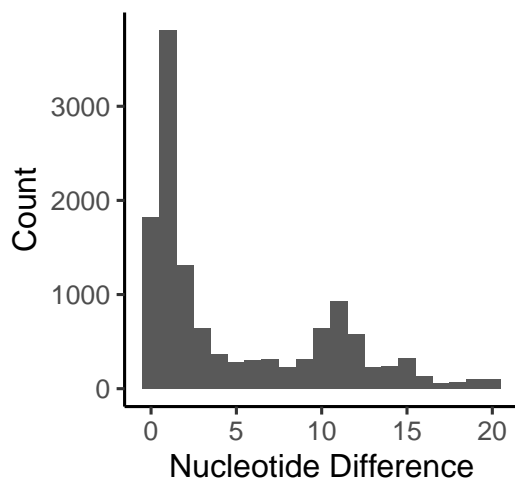


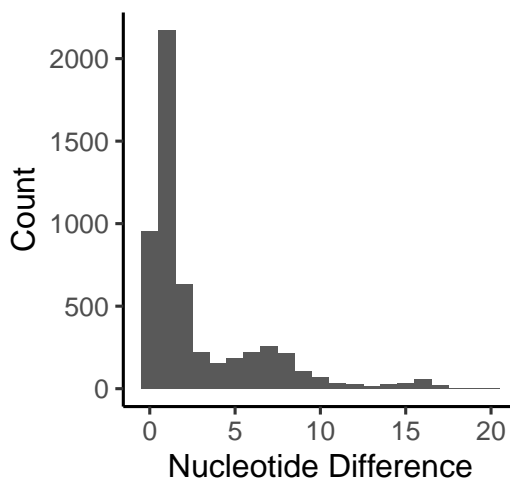
IGHV1-2*02

13120 sequences assigned
1826 (13.9%) exact matches, in which:
1255 unique CDR3
7 unique J



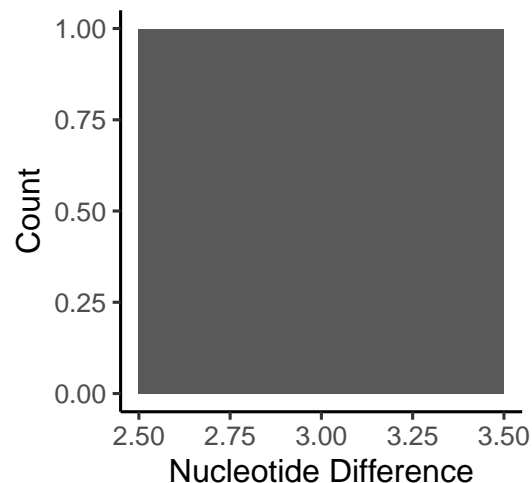
IGHV1-8*02

5438 sequences assigned
954 (17.5%) exact matches, in which:
658 unique CDR3
6 unique J



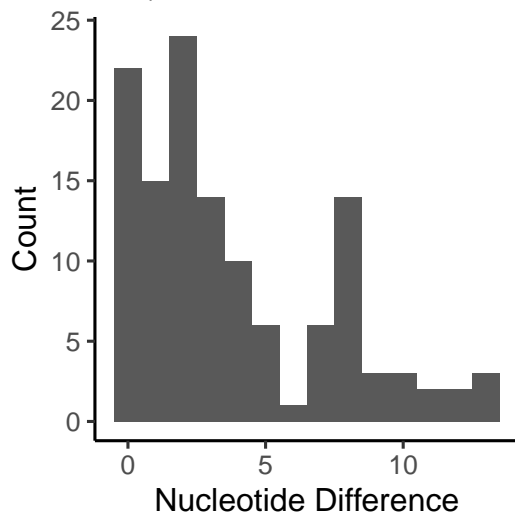
IGHV1-45*02

1 sequences assigned
No exact matches.



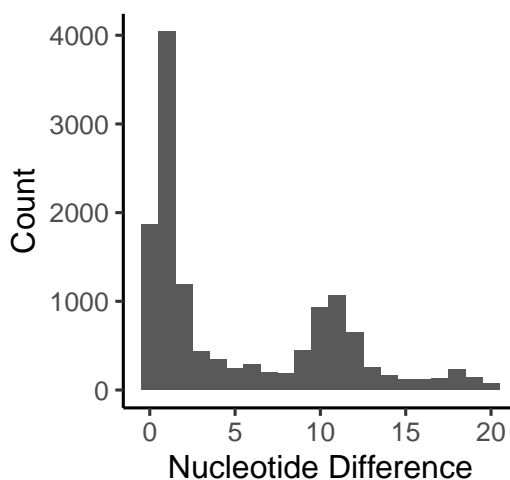
IGHV1-3*02

184 sequences assigned
22 (12%) exact matches, in which:
22 unique CDR3
4 unique J



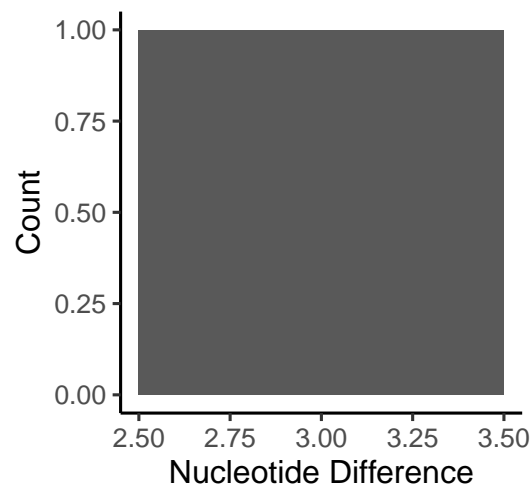
IGHV1-18*01

13817 sequences assigned
1871 (13.5%) exact matches, in which:
1291 unique CDR3
7 unique J



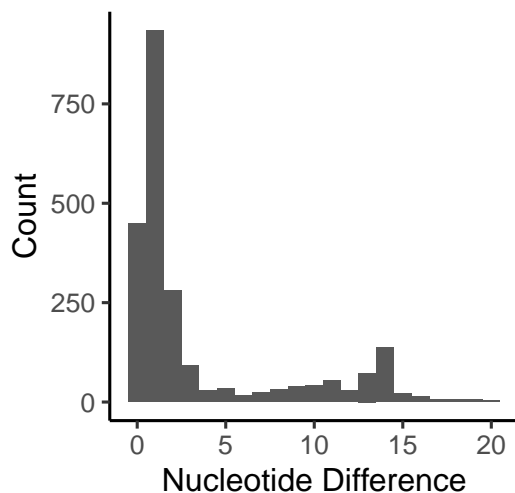
IGHV1-45*03

1 sequences assigned
No exact matches.



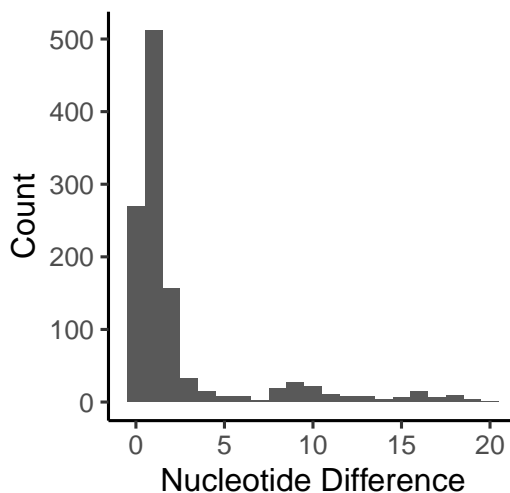
IGHV1-8*01

2513 sequences assigned
450 (17.9%) exact matches, in which:
338 unique CDR3
7 unique J



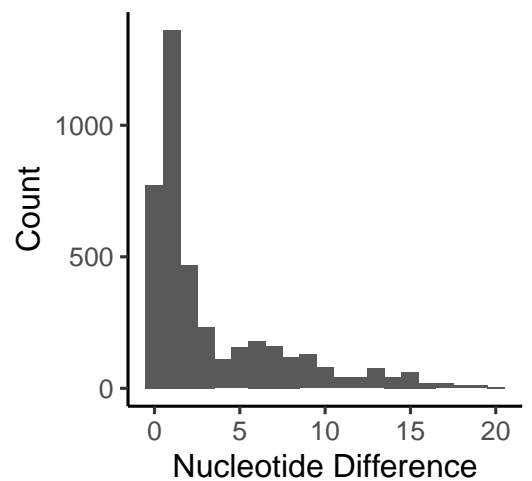
IGHV1-24*01

1139 sequences assigned
269 (23.6%) exact matches, in which:
193 unique CDR3
5 unique J



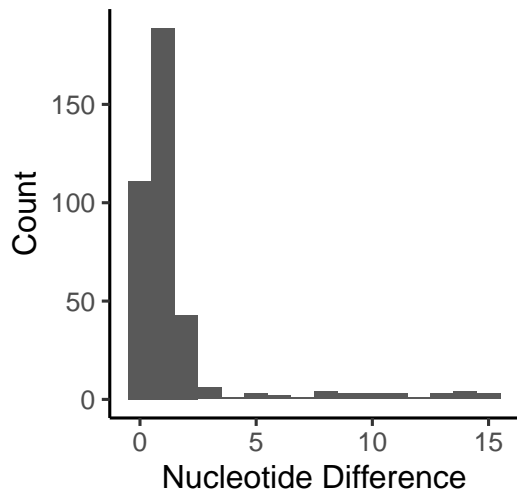
IGHV1-46*01

4128 sequences assigned
774 (18.8%) exact matches, in which:
568 unique CDR3
7 unique J



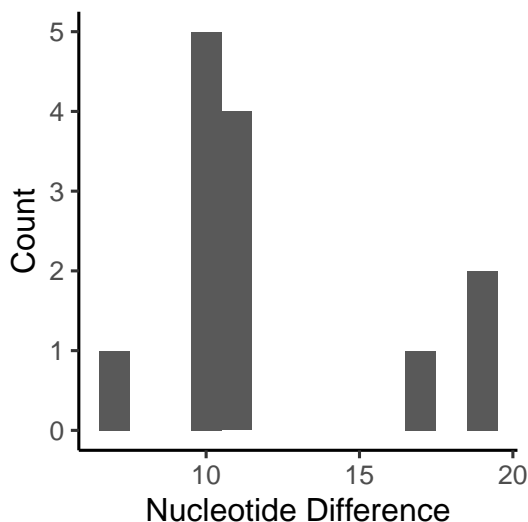
IGHV1–58*02

384 sequences assigned
111 (28.9%) exact matches, in which:
86 unique CDR3
5 unique J



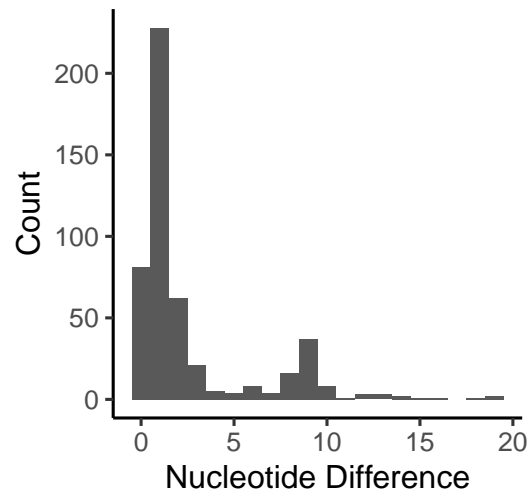
IGHV1–NL1*01

13 sequences assigned
No exact matches.



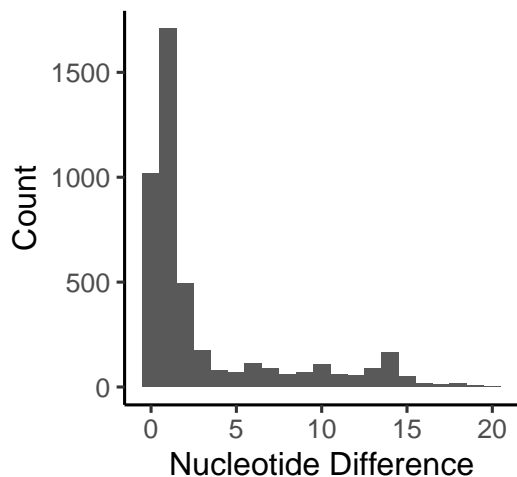
IGHV2–26*01

490 sequences assigned
81 (16.5%) exact matches, in which:
47 unique CDR3
4 unique J



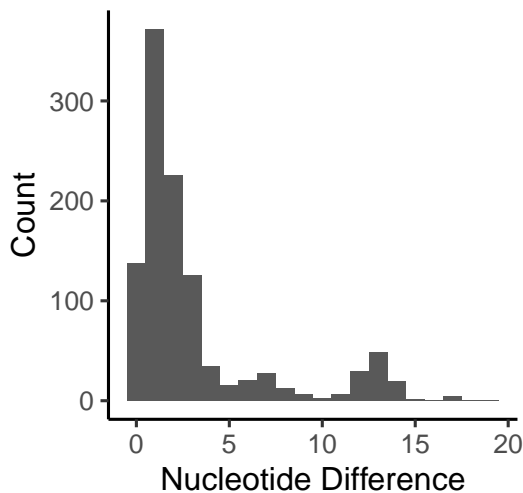
IGHV1–69*10

4460 sequences assigned
1020 (22.9%) exact matches, in which:
773 unique CDR3
7 unique J



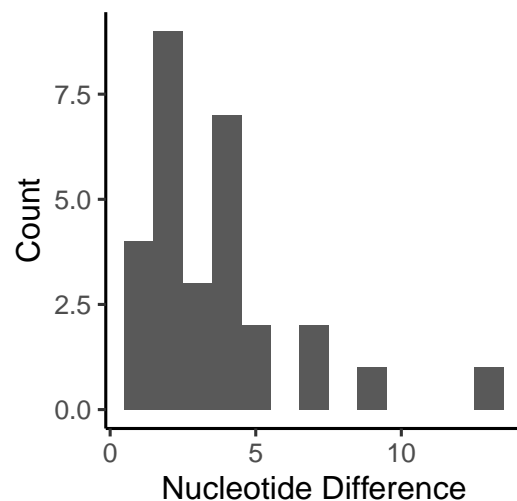
IGHV2–5*01

1107 sequences assigned
138 (12.5%) exact matches, in which:
97 unique CDR3
7 unique J



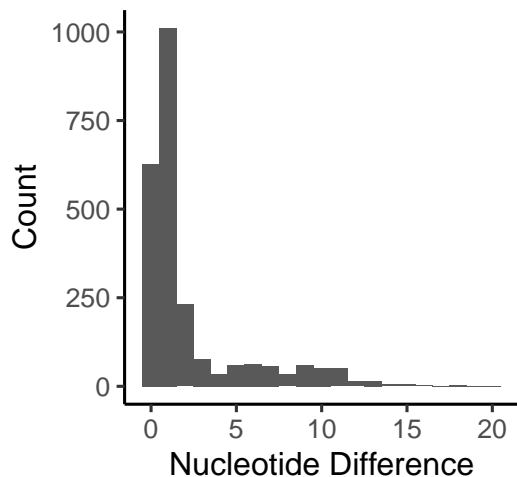
IGHV2–70*12

29 sequences assigned
No exact matches.



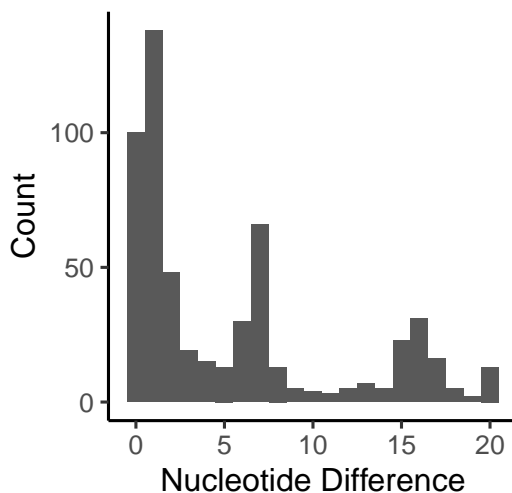
IGHV1–69*04_09

2518 sequences assigned
628 (24.9%) exact matches, in which:
490 unique CDR3
7 unique J



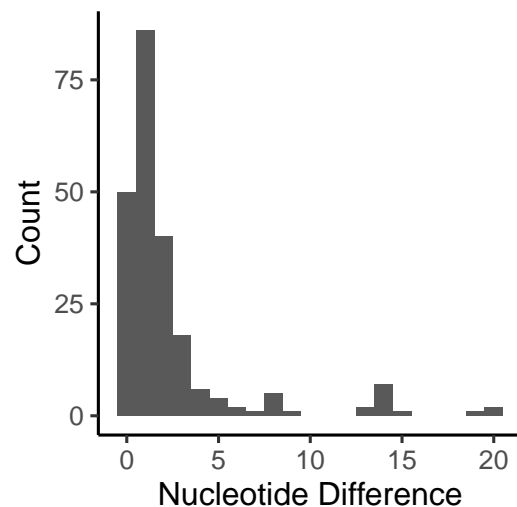
IGHV2–5*02

1128 sequences assigned
100 (8.9%) exact matches, in which:
84 unique CDR3
6 unique J



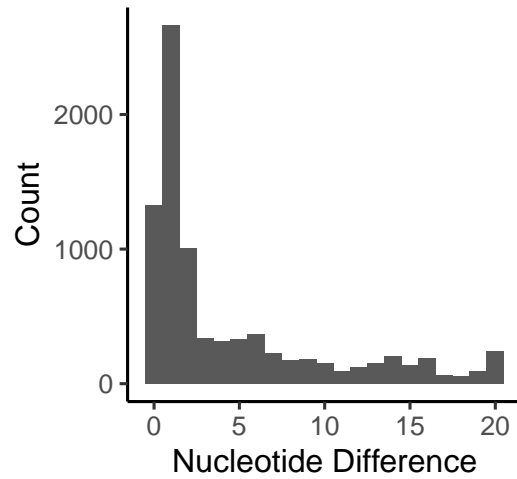
IGHV2–70*11_15

4062 sequences assigned
50 (1.2%) exact matches, in which:
39 unique CDR3
4 unique J



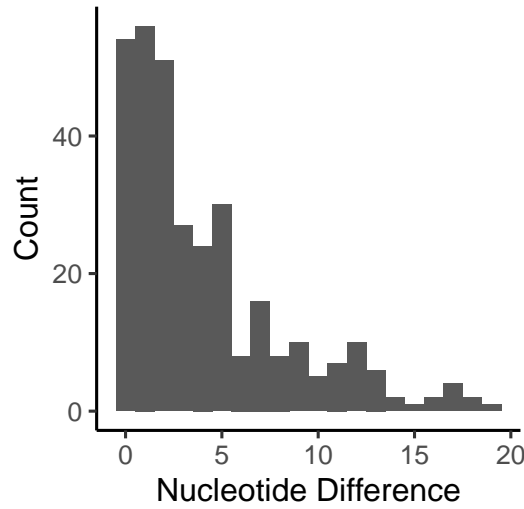
IGHV3-7*01

19062 sequences assigned
1328 (7%) exact matches, in which:
780 unique CDR3
7 unique J



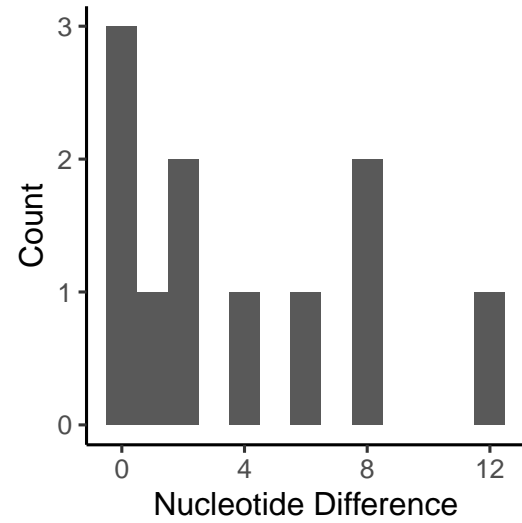
IGHV3-11*04

338 sequences assigned
54 (16%) exact matches, in which:
50 unique CDR3
6 unique J



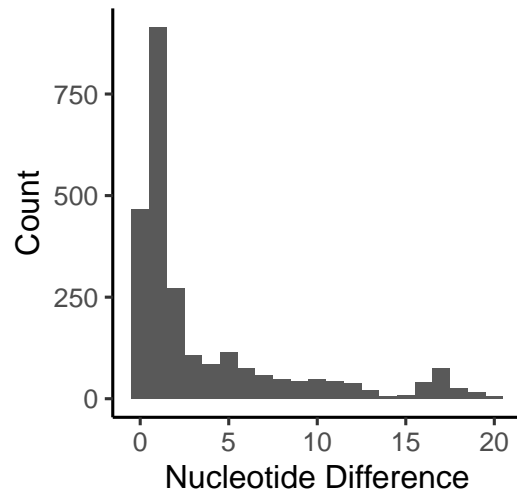
IGHV3-19*01

11 sequences assigned
3 (27.3%) exact matches, in which:
3 unique CDR3
1 unique J



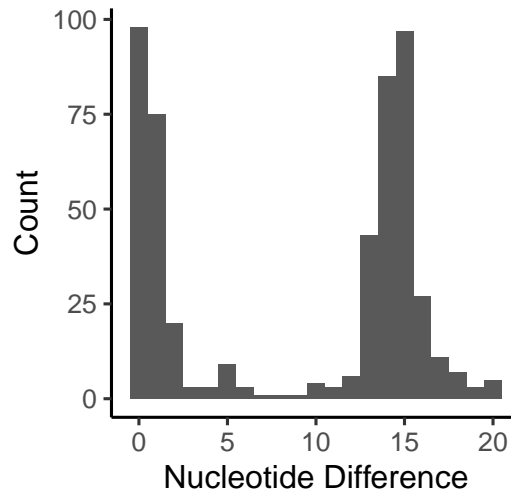
IGHV3-9*01

5015 sequences assigned
467 (9.3%) exact matches, in which:
286 unique CDR3
7 unique J



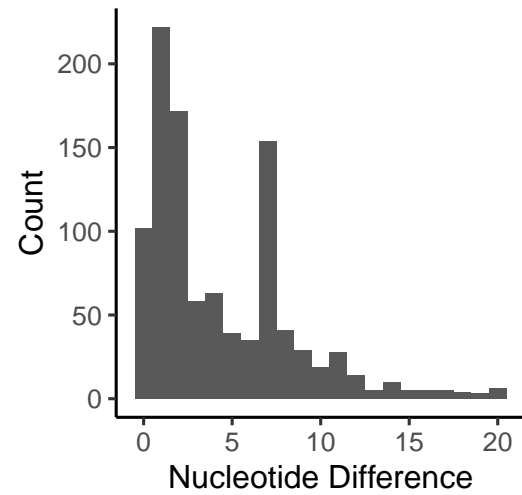
IGHV3-13*01

604 sequences assigned
98 (16.2%) exact matches, in which:
74 unique CDR3
7 unique J



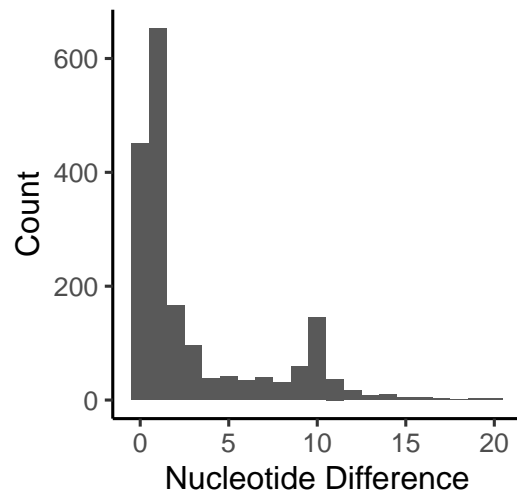
IGHV3-20*03_04

6438 sequences assigned
102 (1.6%) exact matches, in which:
64 unique CDR3
5 unique J



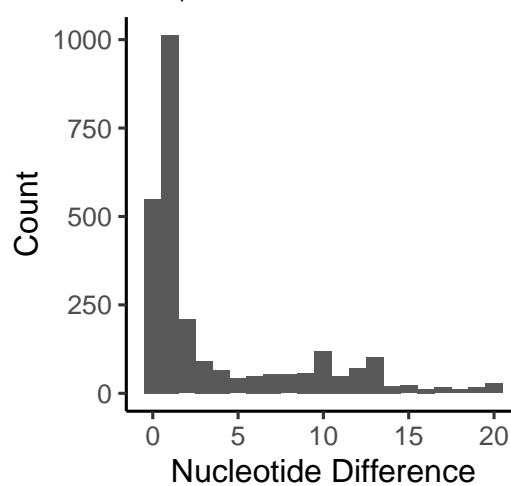
IGHV3-11*01

1868 sequences assigned
451 (24.1%) exact matches, in which:
300 unique CDR3
7 unique J



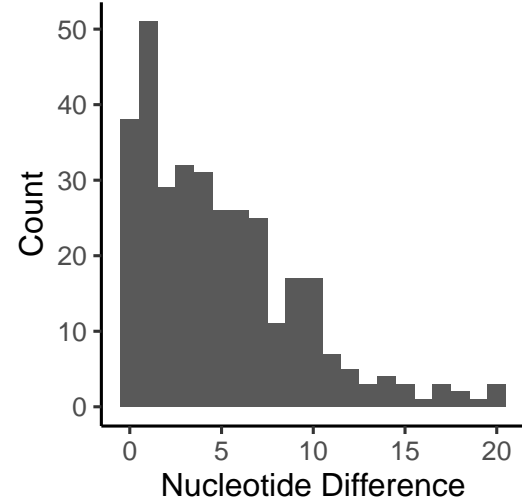
IGHV3-15*01_02

3144 sequences assigned
550 (17.5%) exact matches, in which:
311 unique CDR3
6 unique J



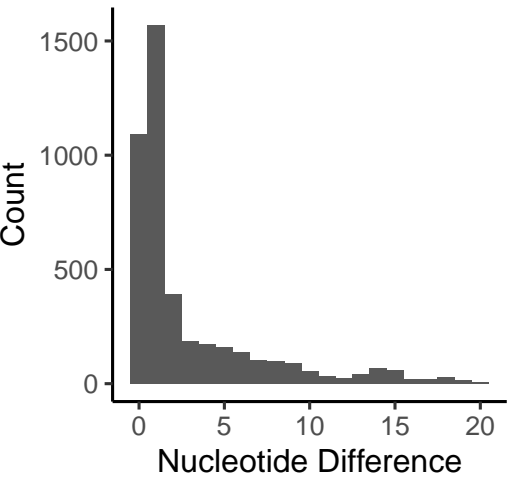
IGHV3-21*04

348 sequences assigned
38 (10.9%) exact matches, in which:
35 unique CDR3
7 unique J



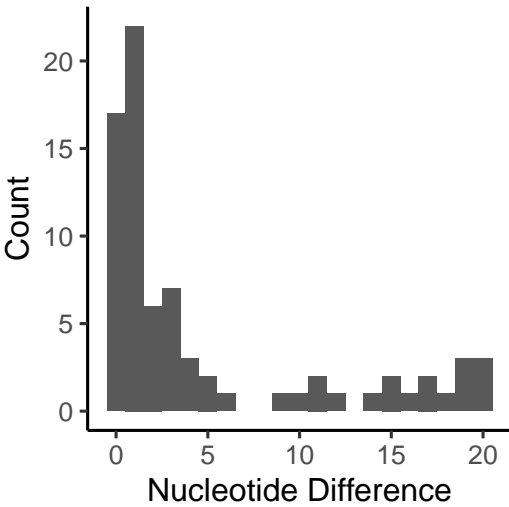
IGHV3-21*01_02

4519 sequences assigned
1093 (24.2%) exact matches, in which:
654 unique CDR3
7 unique J



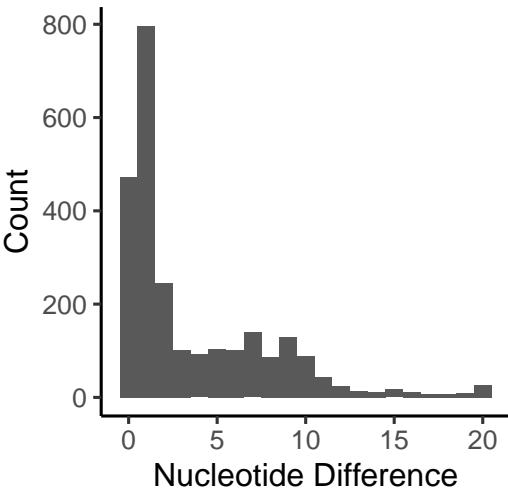
IGHV3-30-5*01

101 sequences assigned
17 (16.8%) exact matches, in which:
10 unique CDR3
2 unique J



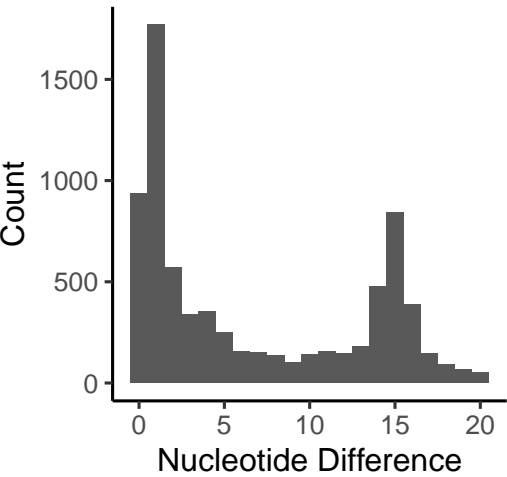
IGHV3-33*08

4409 sequences assigned
473 (10.7%) exact matches, in which:
307 unique CDR3
6 unique J



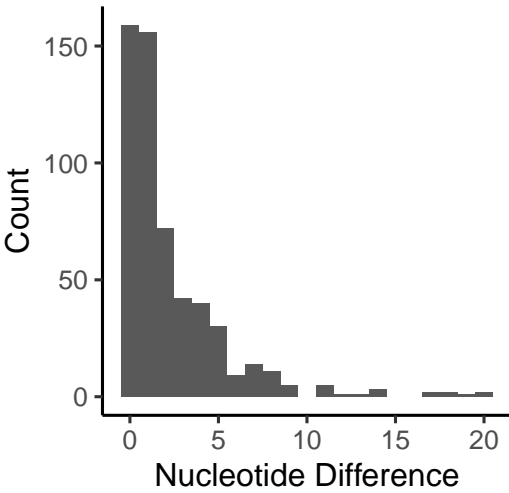
IGHV3-23*03

11457 sequences assigned
938 (8.2%) exact matches, in which:
544 unique CDR3
7 unique J



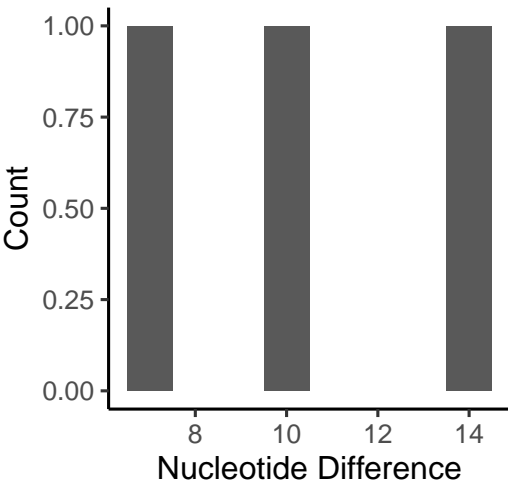
IGHV3-33*01

564 sequences assigned
159 (28.2%) exact matches, in which:
122 unique CDR3
7 unique J



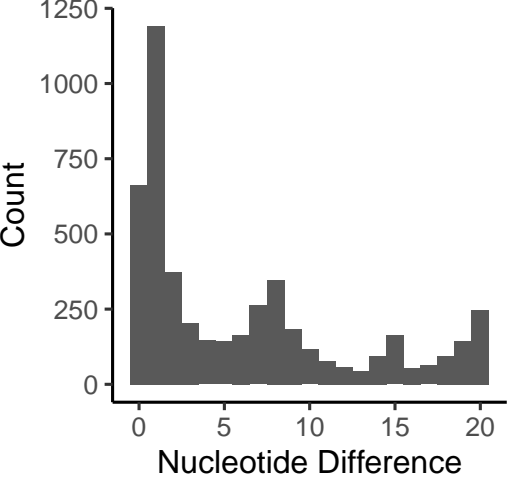
IGHV3-35*01

3 sequences assigned
No exact matches.



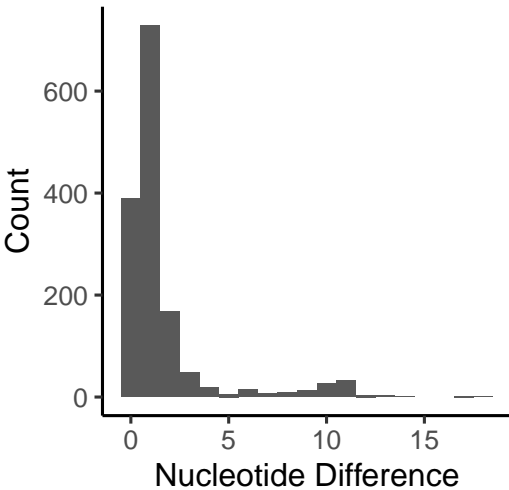
IGHV3-23*01_04

5850 sequences assigned
663 (11.3%) exact matches, in which:
395 unique CDR3
7 unique J



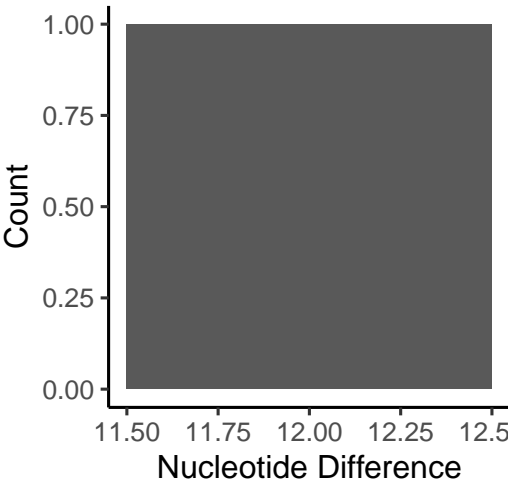
IGHV3-33*06

1481 sequences assigned
390 (26.3%) exact matches, in which:
207 unique CDR3
6 unique J



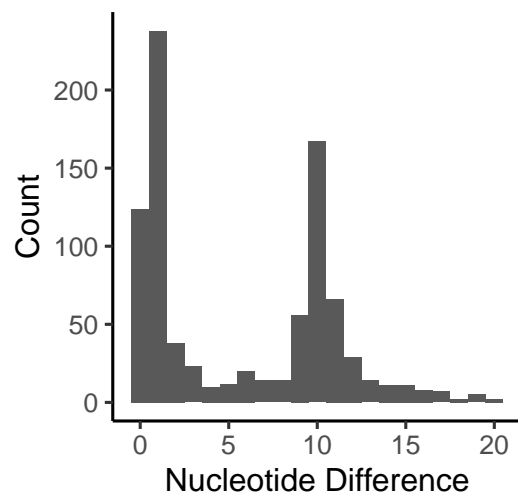
IGHV3-38-3*01

1 sequences assigned
No exact matches.



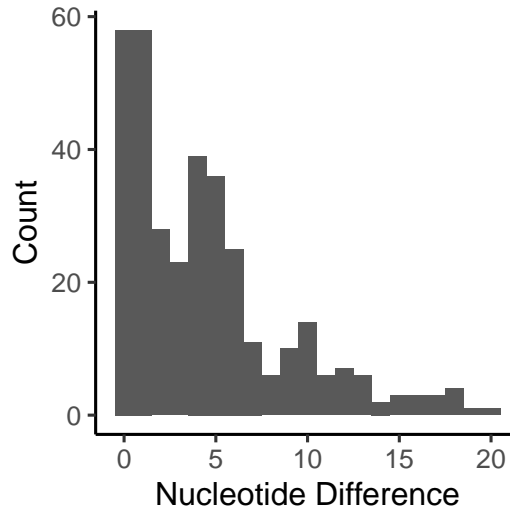
IGHV3-43*02

924 sequences assigned
124 (13.4%) exact matches, in which:
73 unique CDR3
5 unique J



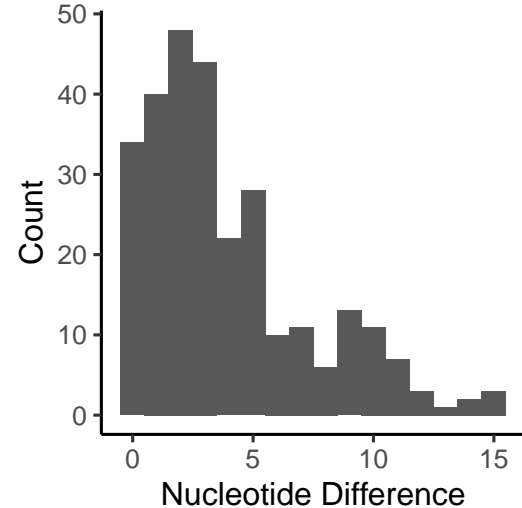
IGHV3-48*01

350 sequences assigned
58 (16.6%) exact matches, in which:
52 unique CDR3
7 unique J



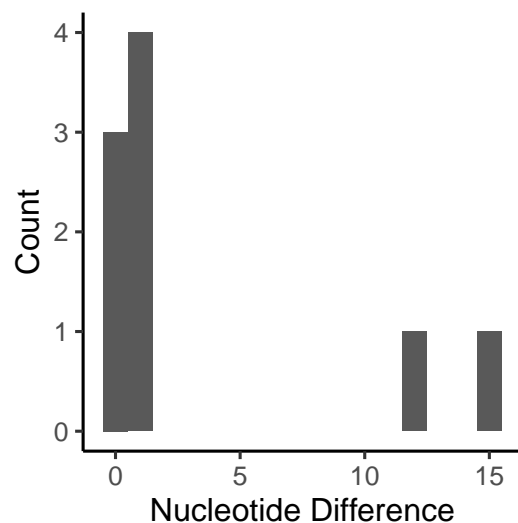
IGHV3-48*04

318 sequences assigned
34 (10.7%) exact matches, in which:
31 unique CDR3
5 unique J



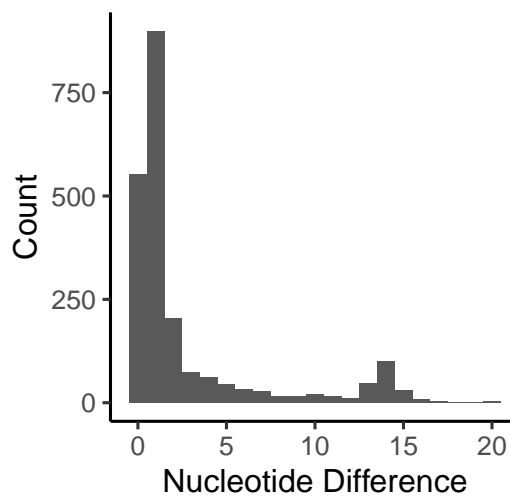
IGHV3-47*01

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



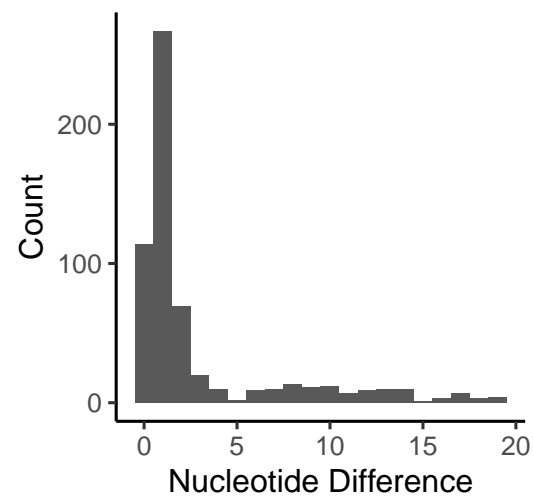
IGHV3-48*02

2229 sequences assigned
552 (24.8%) exact matches, in which:
311 unique CDR3
6 unique J



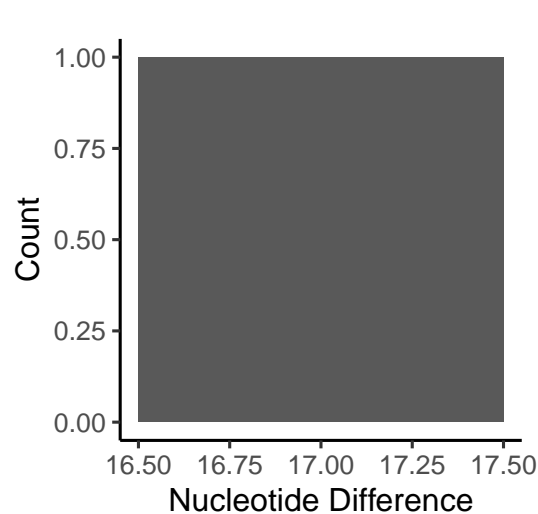
IGHV3-49*04

600 sequences assigned
114 (19%) exact matches, in which:
65 unique CDR3
6 unique J



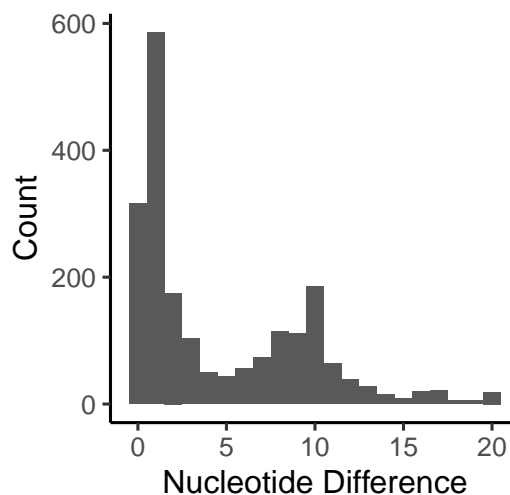
IGHV3-47*02

1 sequences assigned
No exact matches.



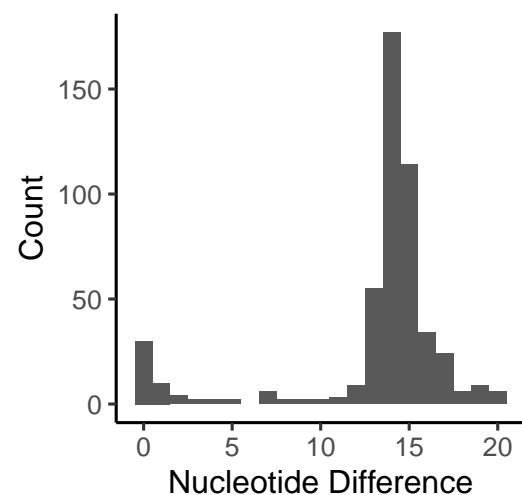
IGHV3-48*03

2999 sequences assigned
316 (10.5%) exact matches, in which:
191 unique CDR3
5 unique J



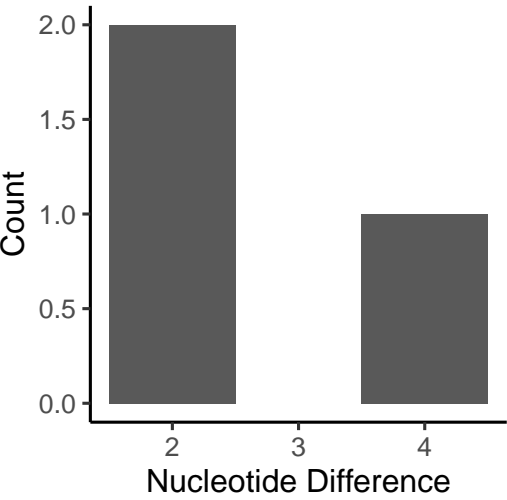
IGHV3-49*03_05

511 sequences assigned
30 (5.9%) exact matches, in which:
23 unique CDR3
5 unique J



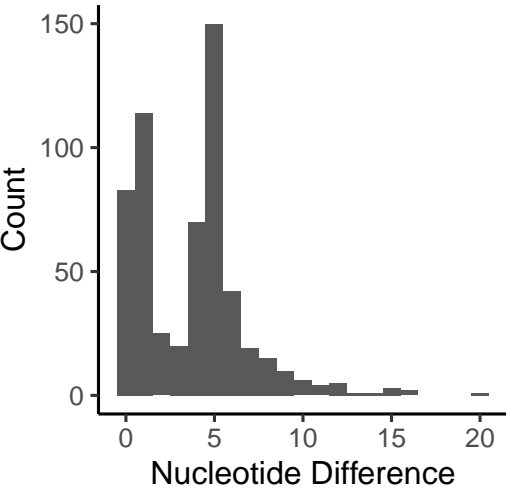
IGHV3-52*01_03

3 sequences assigned
No exact matches.



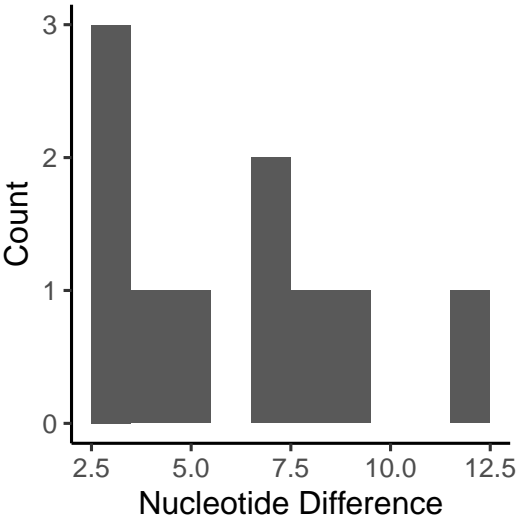
IGHV3-64*01

579 sequences assigned
83 (14.3%) exact matches, in which:
51 unique CDR3
5 unique J



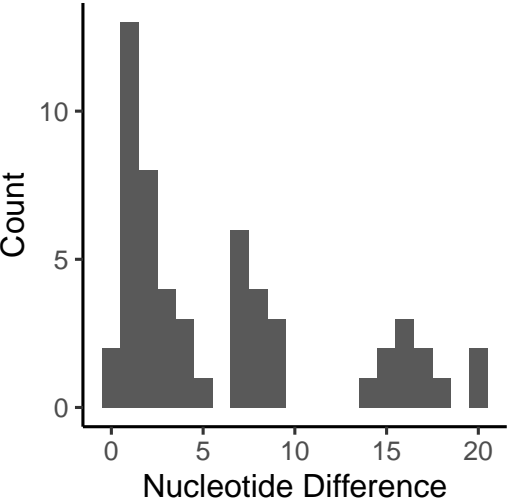
IGHV3-69-1*01

13 sequences assigned
No exact matches.



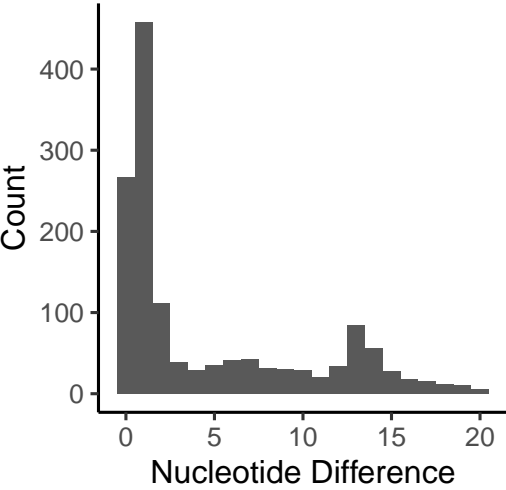
IGHV3-53*05

58 sequences assigned
2 (3.4%) exact matches, in which:
2 unique CDR3
1 unique J



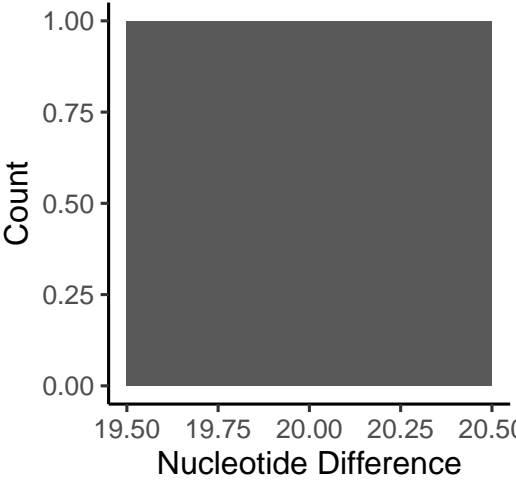
IGHV3-66*01

1628 sequences assigned
267 (16.4%) exact matches, in which:
171 unique CDR3
7 unique J



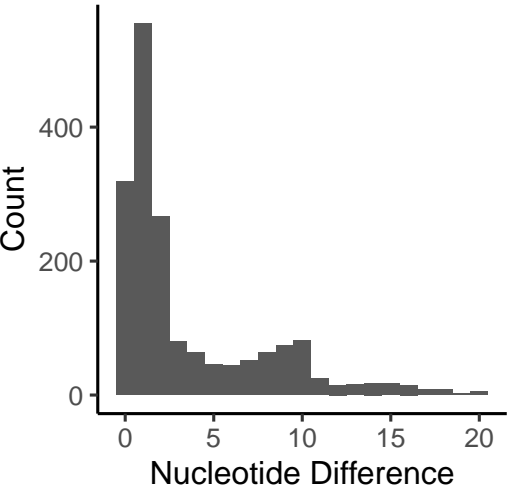
IGHV3-69-1*02

9 sequences assigned
No exact matches.



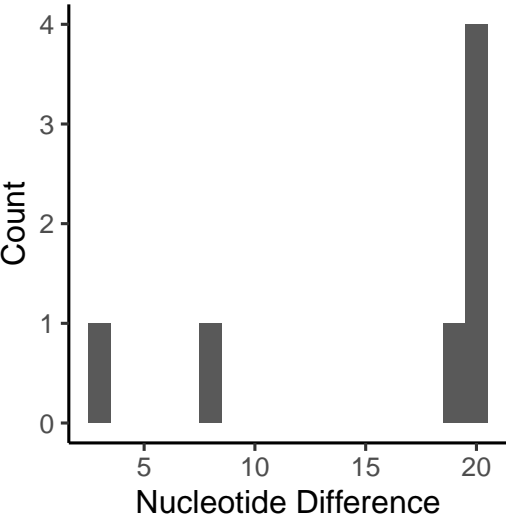
IGHV3-53*01_02

2095 sequences assigned
319 (15.2%) exact matches, in which:
207 unique CDR3
7 unique J



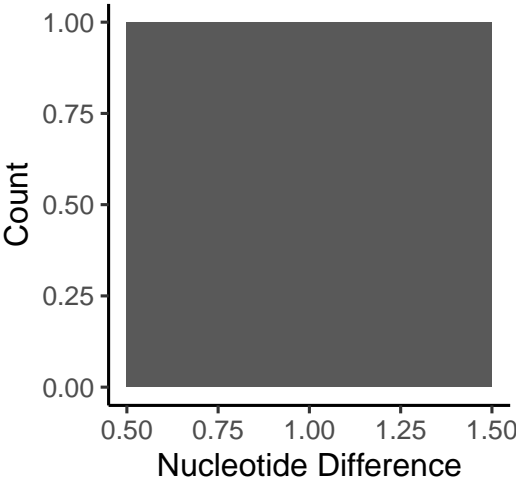
IGHV3-66*03

10 sequences assigned
No exact matches.



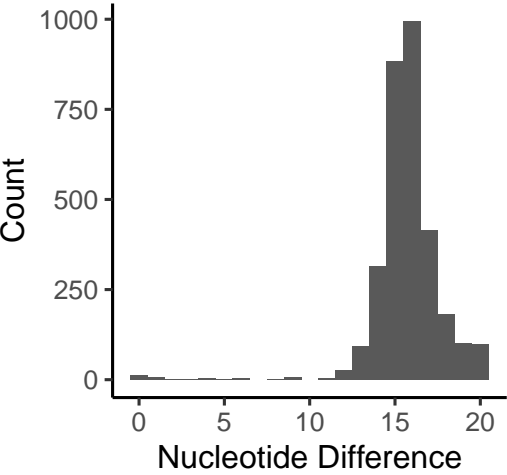
IGHV3-71*02

1 sequences assigned
No exact matches.



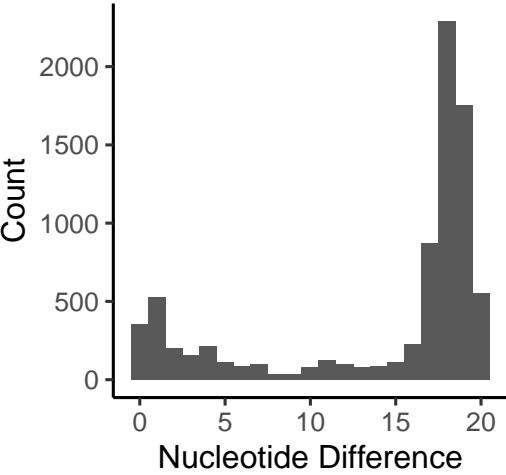
IGHV3-72*01

3695 sequences assigned
12 (0.3%) exact matches, in which:
9 unique CDR3
4 unique J



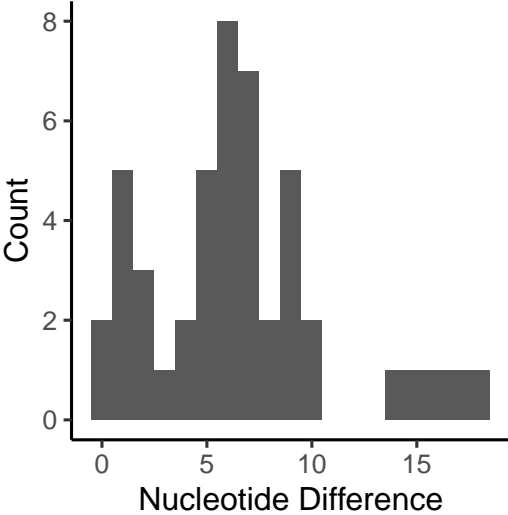
IGHV3-74*01_02

10347 sequences assigned
354 (3.4%) exact matches, in which:
228 unique CDR3
6 unique J



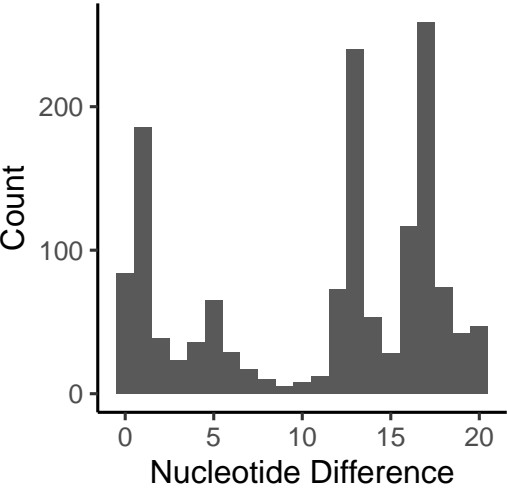
IGHV3-NL1*01

64 sequences assigned
2 (3.1%) exact matches, in which:
2 unique CDR3
1 unique J



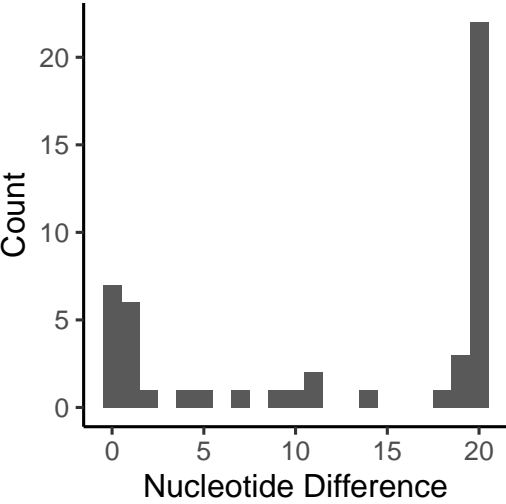
IGHV3-73*01_02

1959 sequences assigned
84 (4.3%) exact matches, in which:
45 unique CDR3
5 unique J



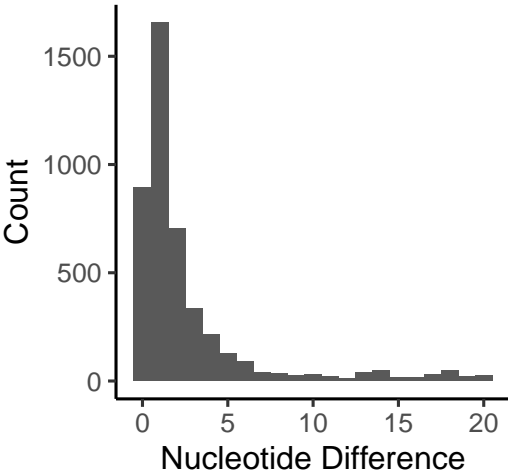
IGHV3-43D*03

463 sequences assigned
7 (1.5%) exact matches, in which:
5 unique CDR3
3 unique J



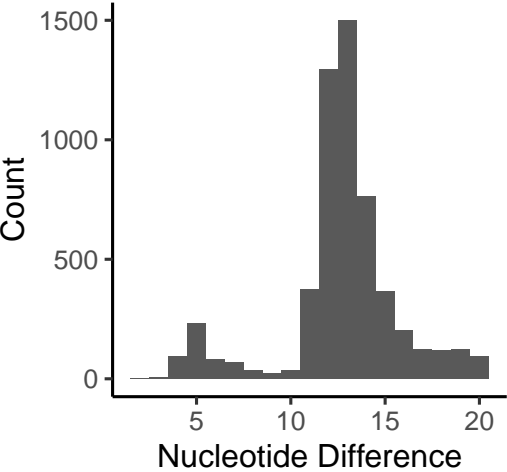
IGHV4-4*07

9794 sequences assigned
892 (9.1%) exact matches, in which:
631 unique CDR3
7 unique J



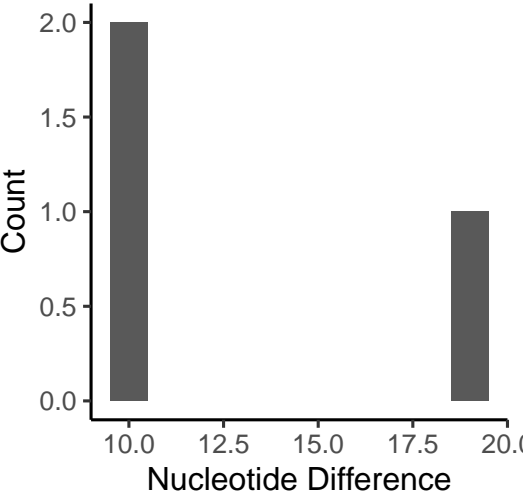
IGHV3-74*03

5905 sequences assigned
No exact matches.



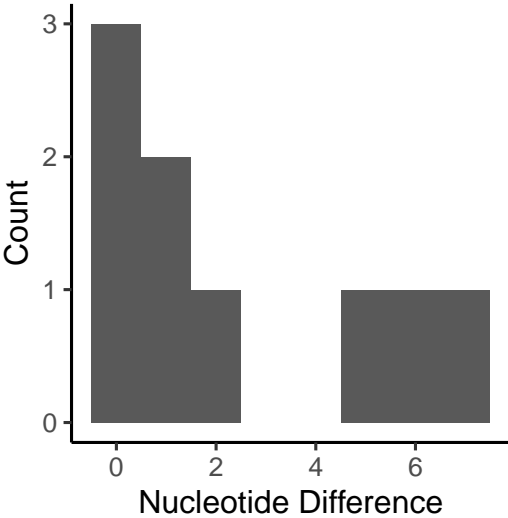
IGHV3-64D*06

15 sequences assigned
No exact matches.



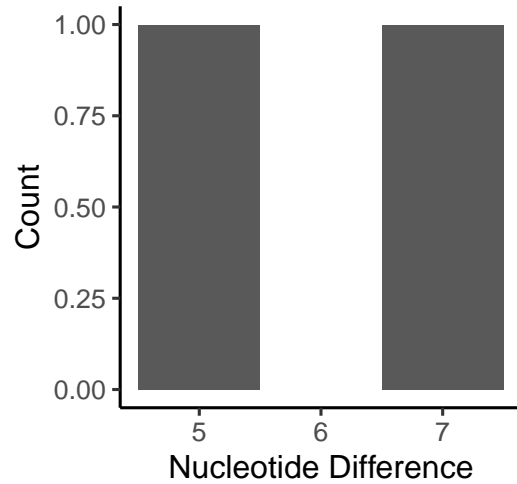
IGHV4-28*03

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



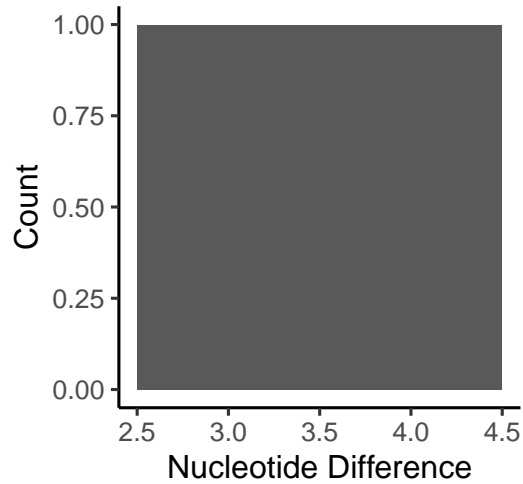
IGHV4-28*01_07

3 sequences assigned
No exact matches.



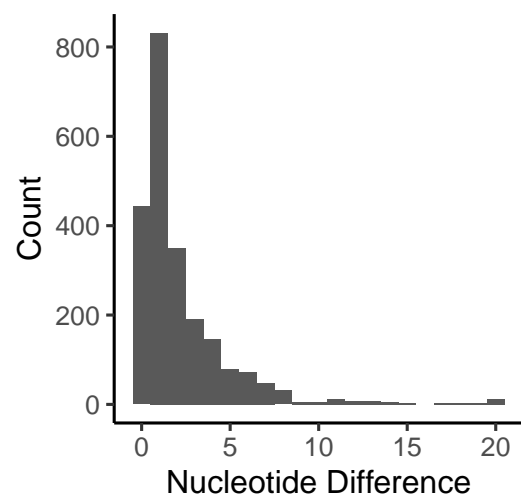
IGHV4-30-2*04

4 sequences assigned
No exact matches.



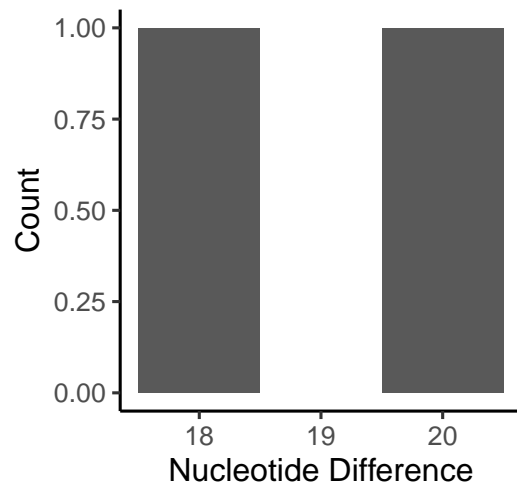
IGHV4-31*02

5387 sequences assigned
443 (8.2%) exact matches, in which:
310 unique CDR3
7 unique J



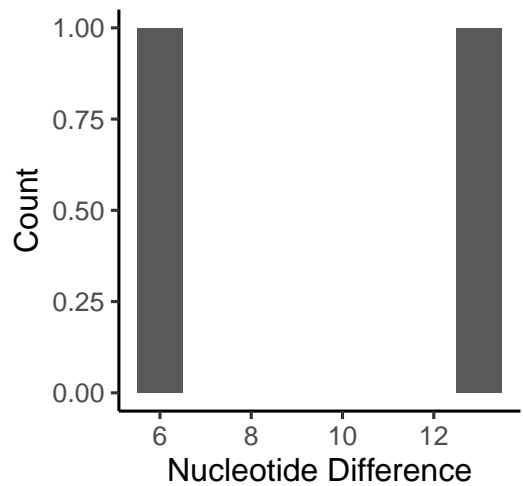
IGHV4-30-4*01

5 sequences assigned
No exact matches.



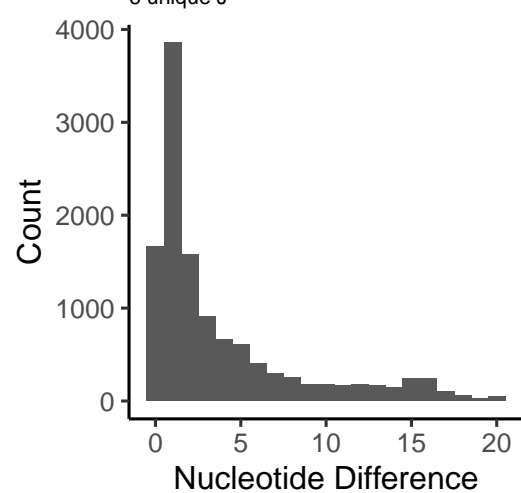
IGHV4-30-4*07

2 sequences assigned
No exact matches.



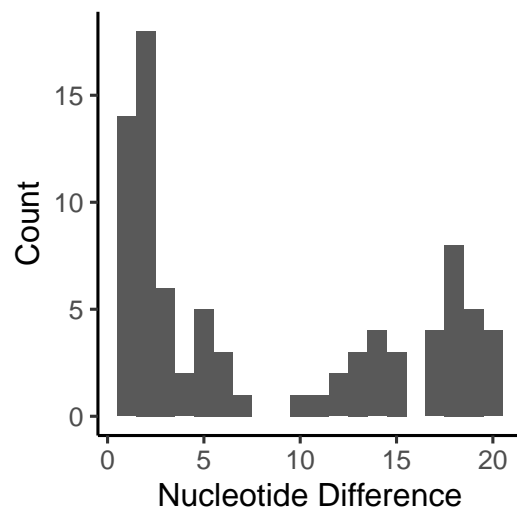
IGHV4-34*01_02

14571 sequences assigned
1665 (11.4%) exact matches, in which:
981 unique CDR3
6 unique J



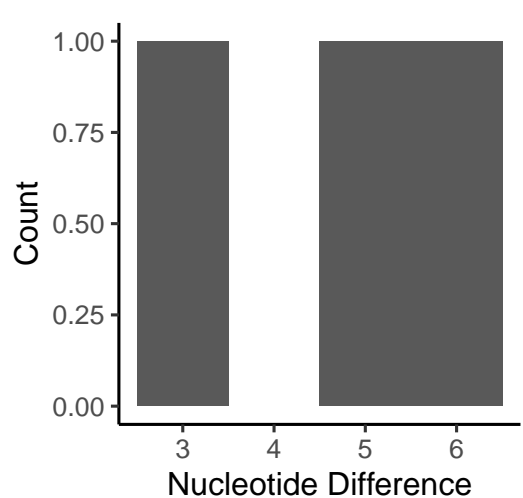
IGHV4-30-2*03

131 sequences assigned
No exact matches.



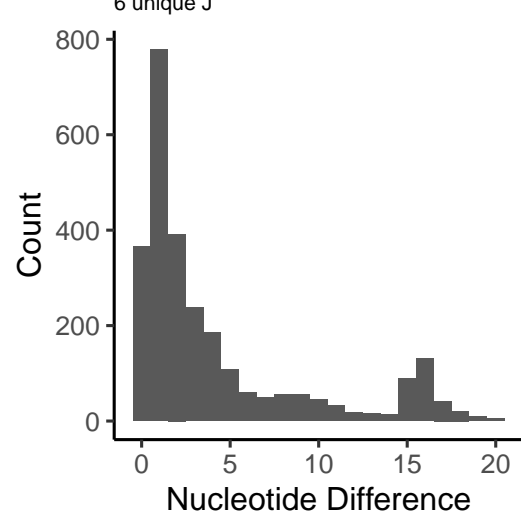
IGHV4-30-4*08

17 sequences assigned
No exact matches.



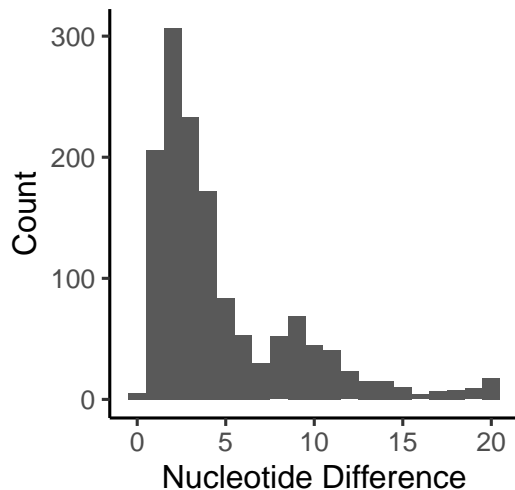
IGHV4-38-2*02

2779 sequences assigned
365 (13.1%) exact matches, in which:
257 unique CDR3
6 unique J



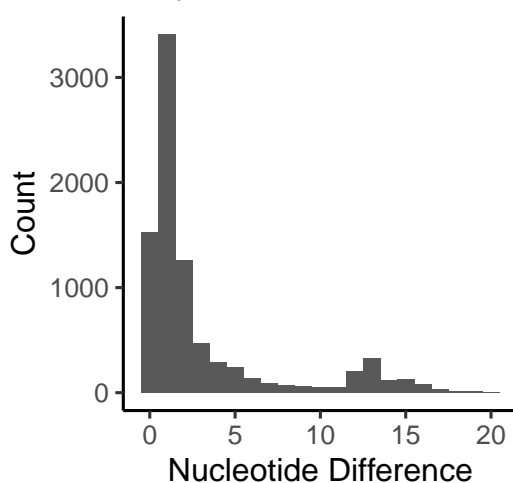
IGHV4-39*07

1591 sequences assigned
5 (0.3%) exact matches, in which:
5 unique CDR3
3 unique J



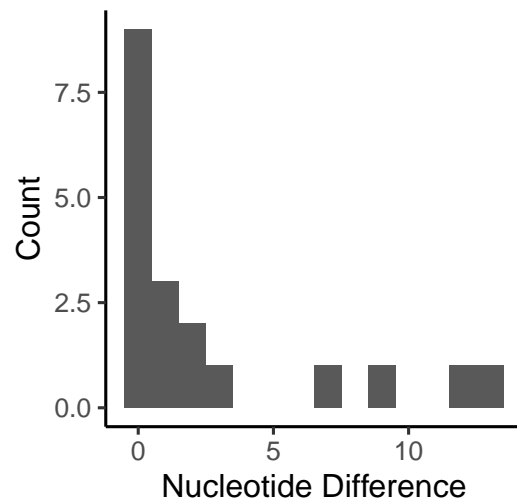
IGHV4-59*01_07

9029 sequences assigned
1531 (17%) exact matches, in which:
994 unique CDR3
7 unique J



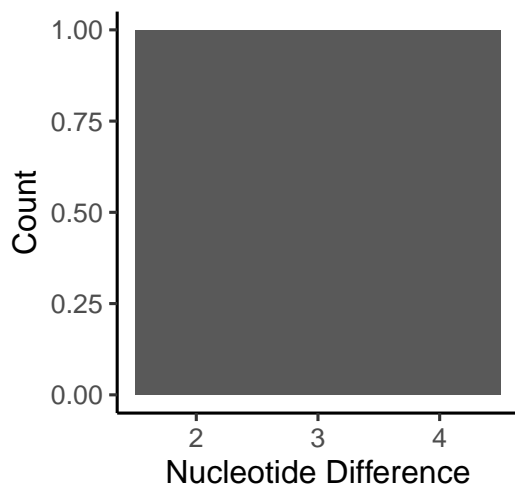
IGHV4-61*07

19 sequences assigned
9 (47.4%) exact matches, in which:
9 unique CDR3
4 unique J



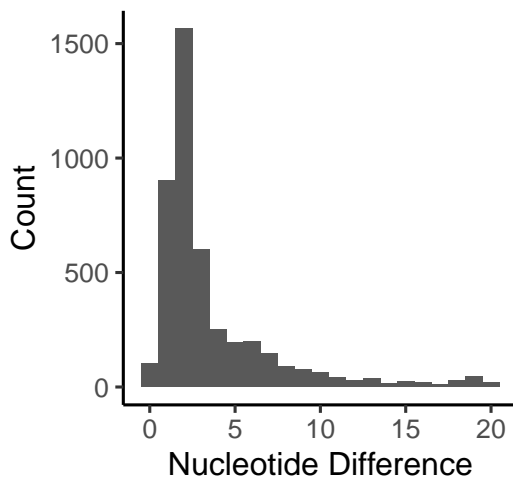
IGHV4-55*09

3 sequences assigned
No exact matches.



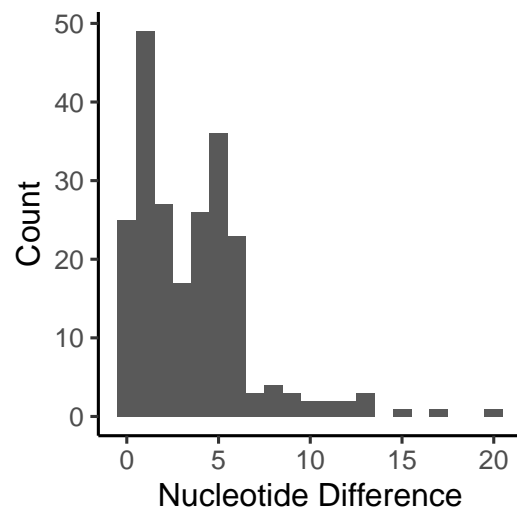
IGHV4-59*12

4542 sequences assigned
103 (2.3%) exact matches, in which:
98 unique CDR3
6 unique J



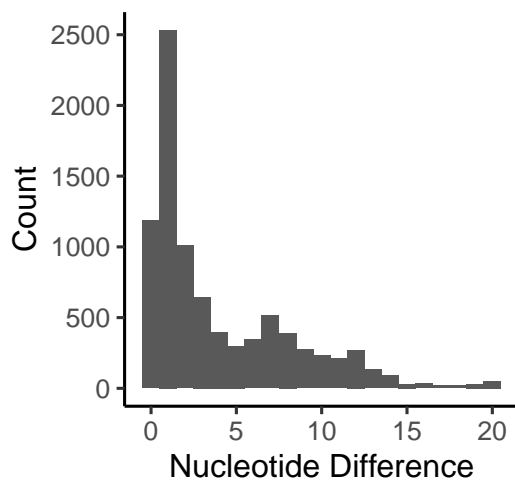
IGHV4-61*08

238 sequences assigned
25 (10.5%) exact matches, in which:
20 unique CDR3
5 unique J



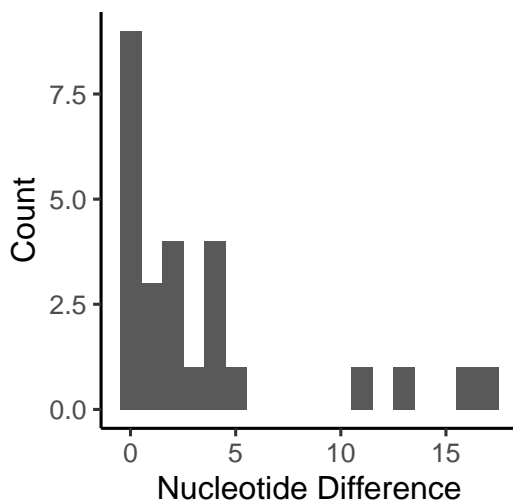
IGHV4-59*08

9539 sequences assigned
1187 (12.4%) exact matches, in which:
789 unique CDR3
7 unique J



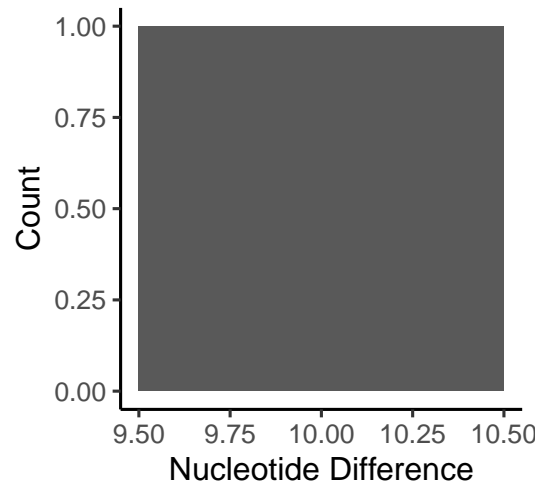
IGHV4-61*02

34 sequences assigned
9 (26.5%) exact matches, in which:
8 unique CDR3
3 unique J



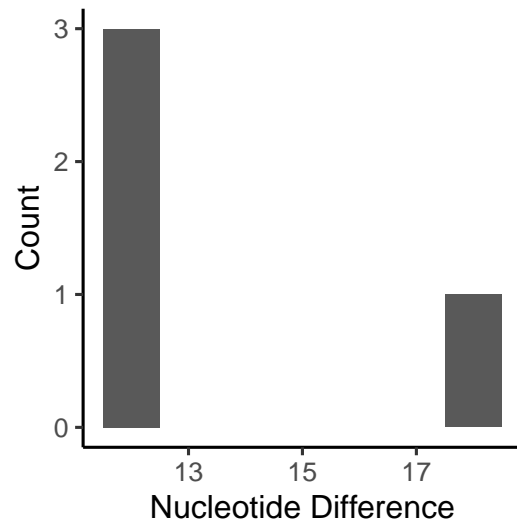
IGHV1/OR15-2*01

1 sequences assigned
No exact matches.



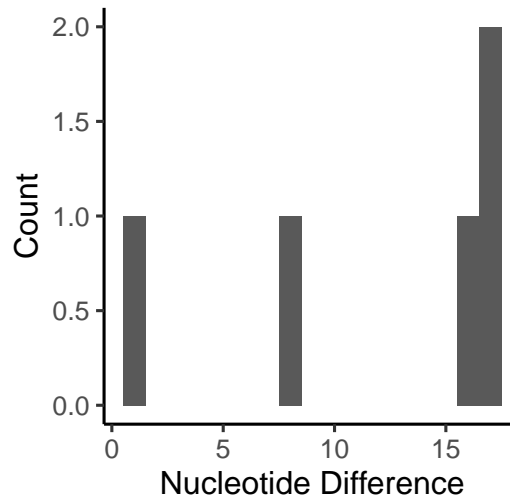
IGHV1/OR15-2*02_03

14 sequences assigned
No exact matches.



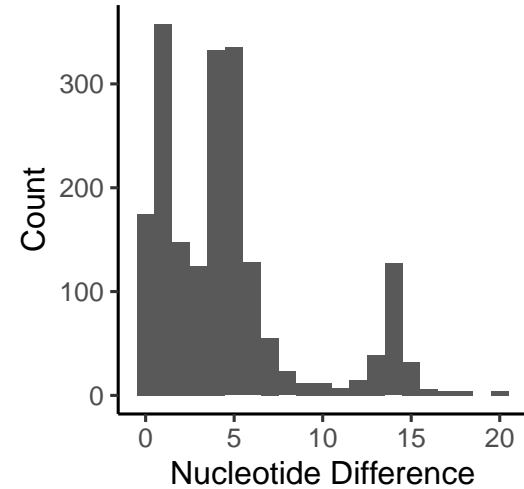
IGHV5-10-1*01_03

5 sequences assigned
No exact matches.



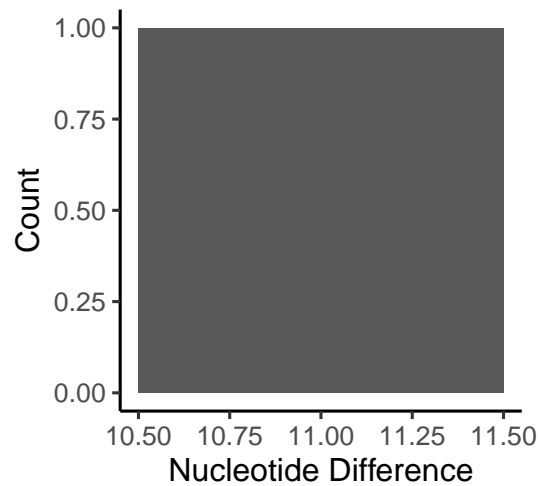
IGHV6-1*01_02

1955 sequences assigned
175 (9%) exact matches, in which:
130 unique CDR3
6 unique J



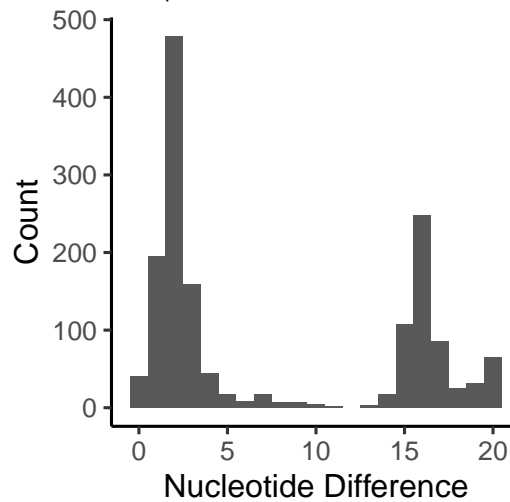
IGHV1/OR15-3*02

1 sequences assigned
No exact matches.



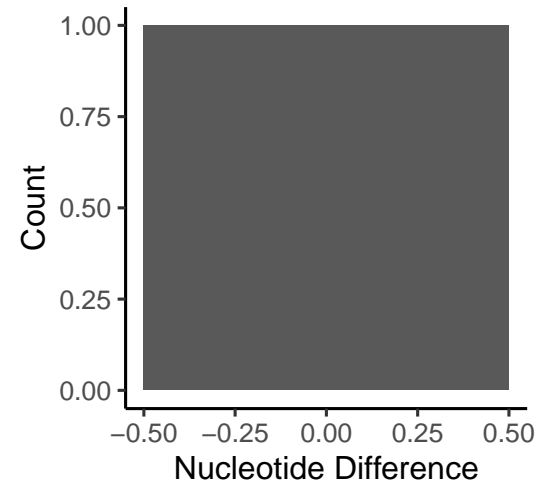
IGHV5-51*07

1660 sequences assigned
41 (2.5%) exact matches, in which:
28 unique CDR3
6 unique J



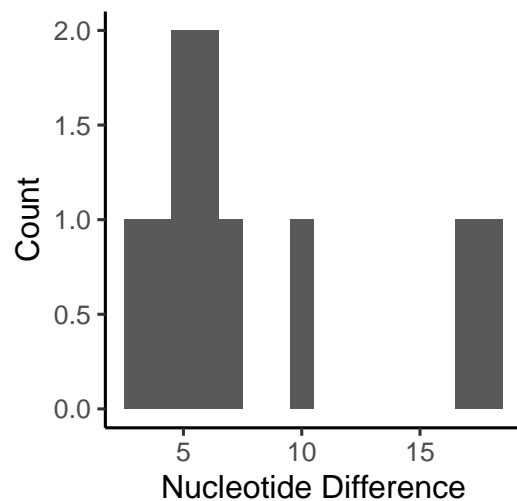
IGHV7-4-1*01

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



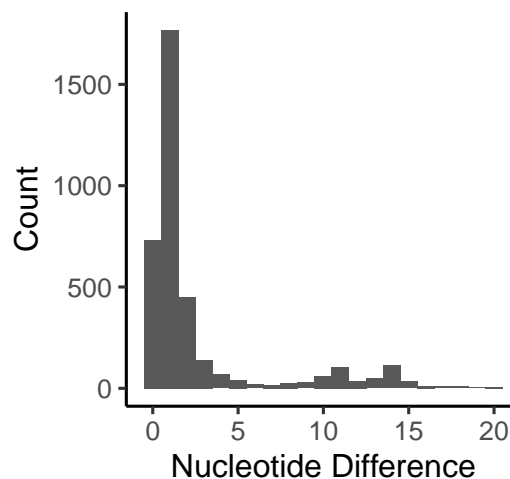
IGHV4/OR15-8*01

15 sequences assigned
No exact matches.



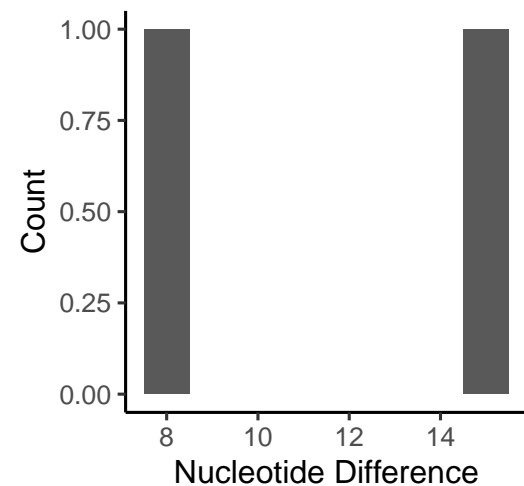
IGHV5-51*01_03

3818 sequences assigned
733 (19.2%) exact matches, in which:
379 unique CDR3
6 unique J

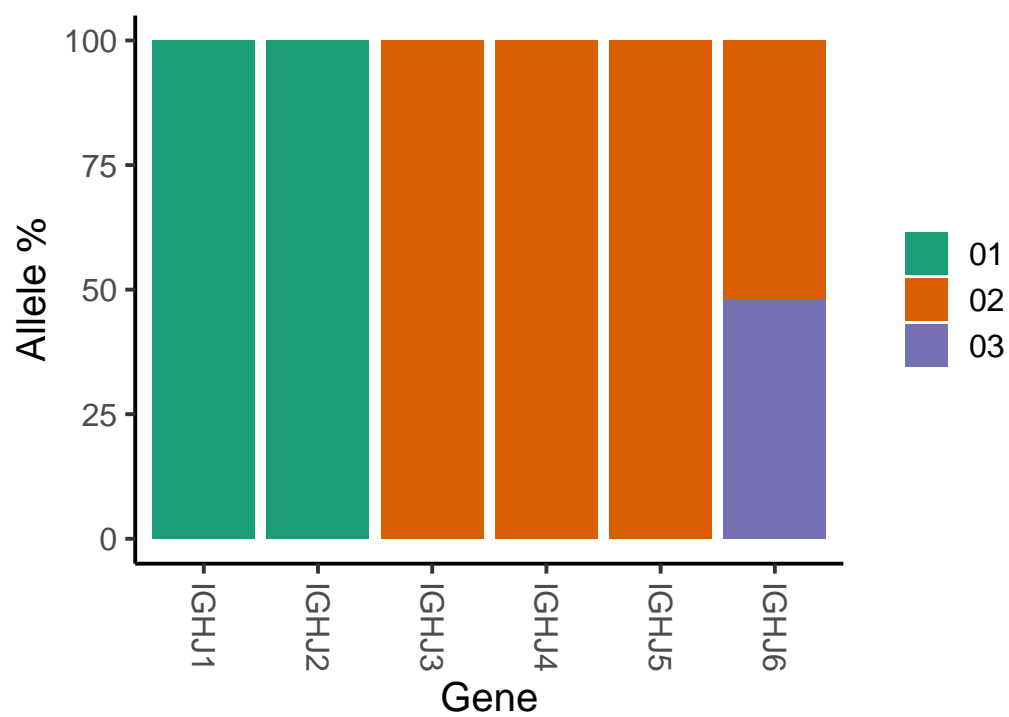


IGHV7-4-1*02

2 sequences assigned
No exact matches.



Allele Usage



Sequence Count by IGHJ6 allele usage

