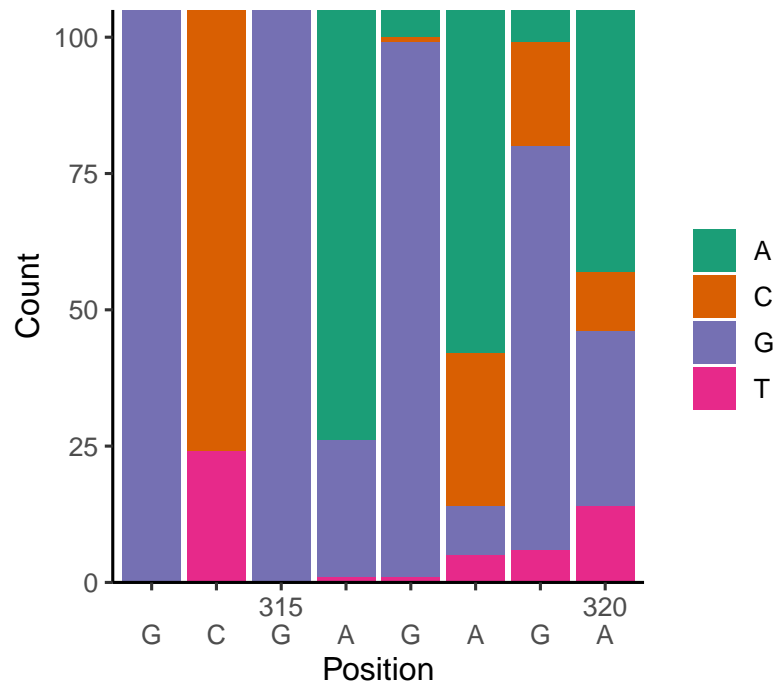


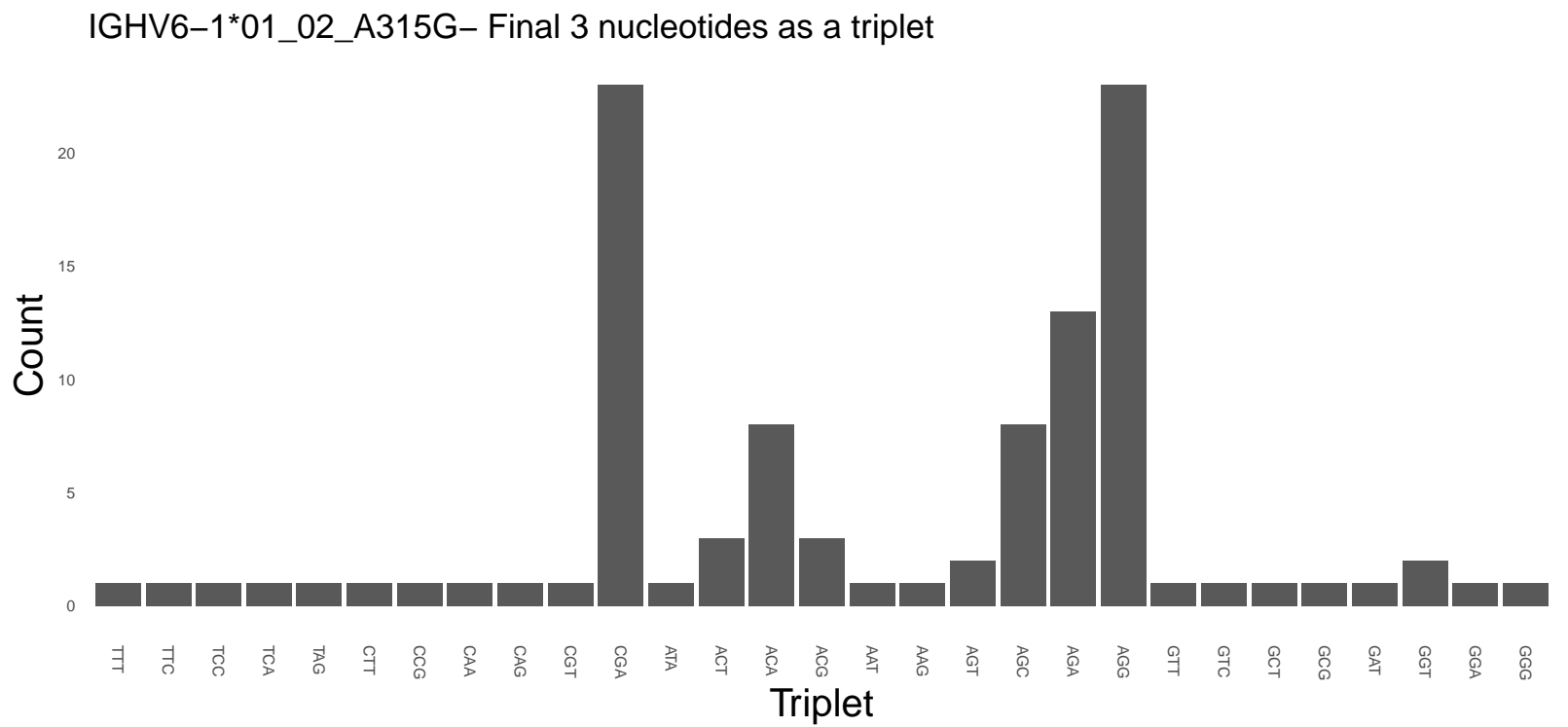
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

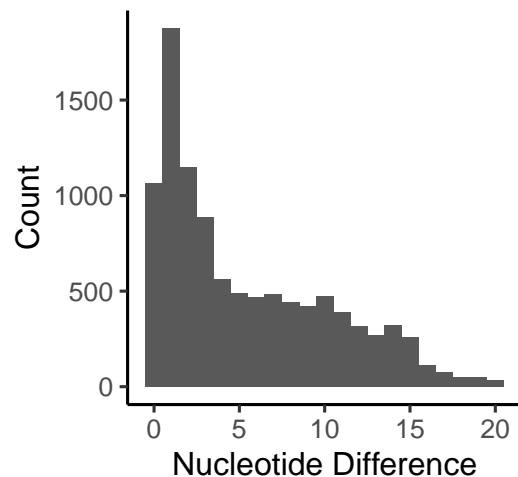


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



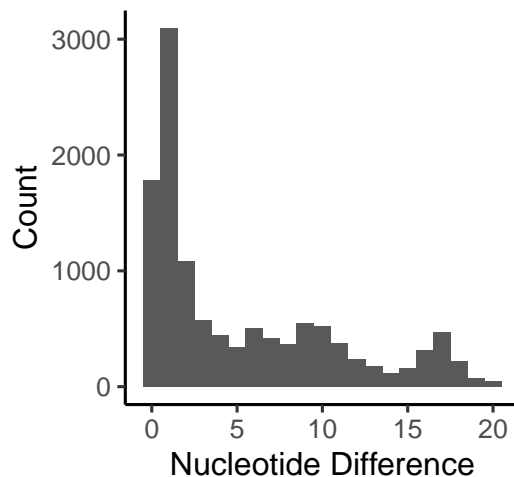
IGHV1-2*02

10459 sequences assigned
1063 (10.2%) exact matches, in which:
789 unique CDR3
7 unique J



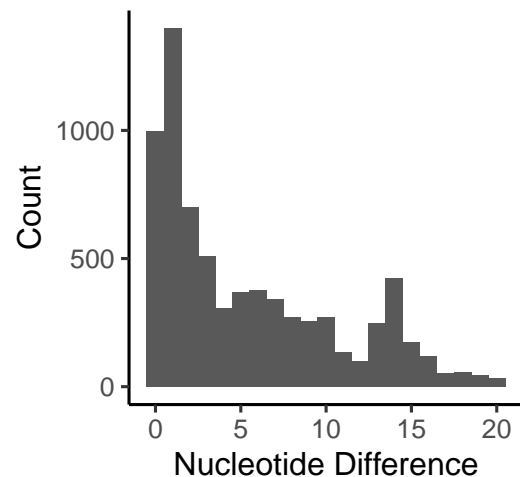
IGHV1-18*01

13495 sequences assigned
1786 (13.2%) exact matches, in which:
1314 unique CDR3
7 unique J



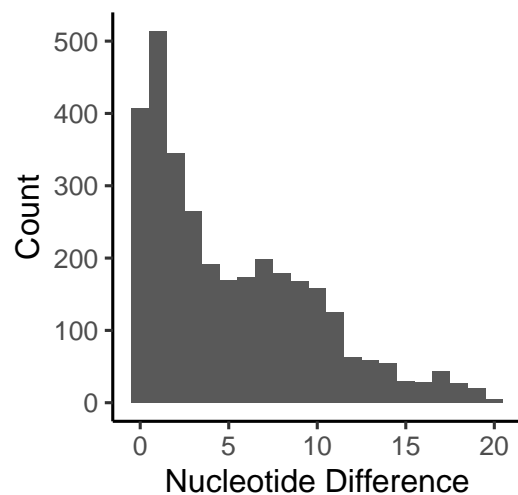
IGHV1-46*01

7399 sequences assigned
998 (13.5%) exact matches, in which:
767 unique CDR3
7 unique J



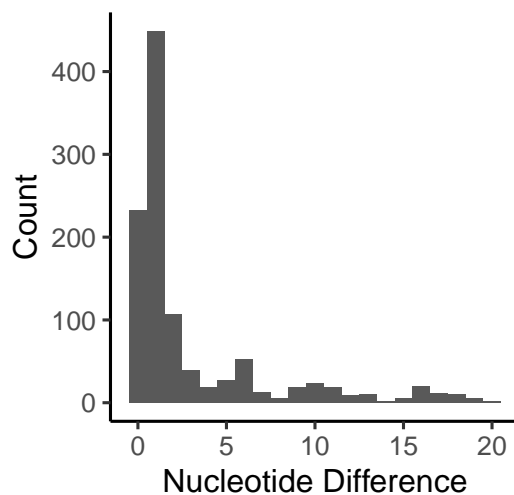
IGHV1-3*01_05

7922 sequences assigned
407 (5.1%) exact matches, in which:
321 unique CDR3
7 unique J



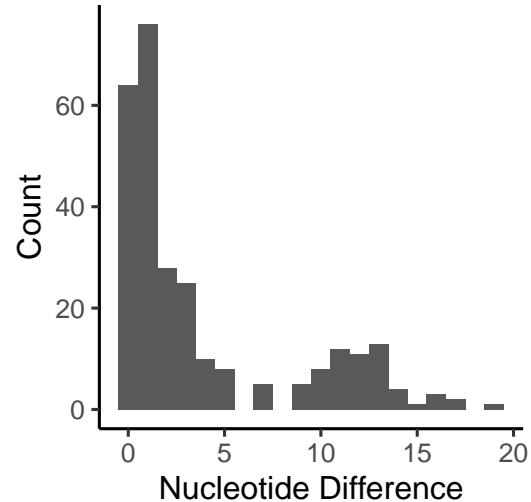
IGHV1-24*01

1097 sequences assigned
233 (21.2%) exact matches, in which:
151 unique CDR3
7 unique J



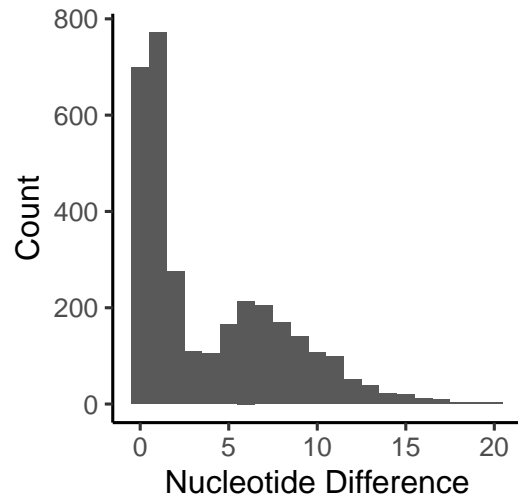
IGHV1-58*02

278 sequences assigned
64 (23%) exact matches, in which:
51 unique CDR3
5 unique J



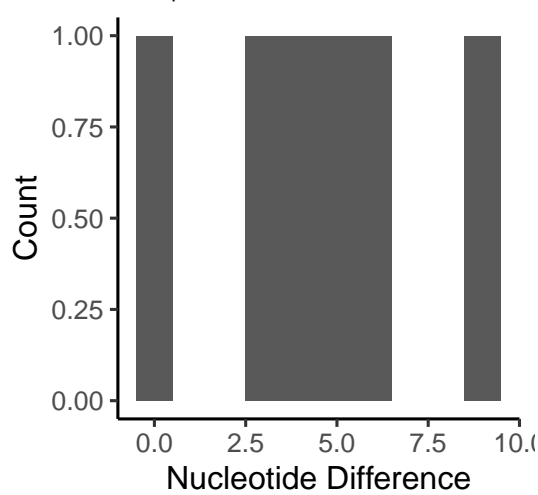
IGHV1-8*01

3223 sequences assigned
699 (21.7%) exact matches, in which:
585 unique CDR3
7 unique J



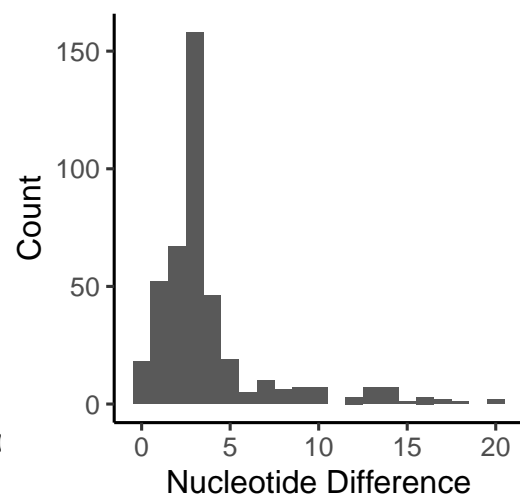
IGHV1-45*02

6 sequences assigned
1 (16.7%) exact matches, in which:
1 unique CDR3
1 unique J



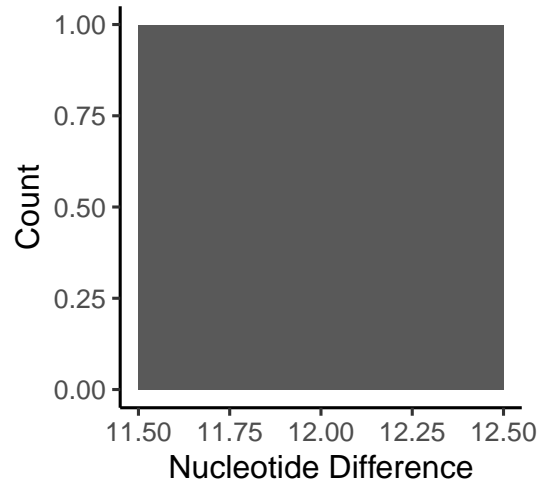
IGHV1-58*01_03

425 sequences assigned
18 (4.2%) exact matches, in which:
16 unique CDR3
5 unique J



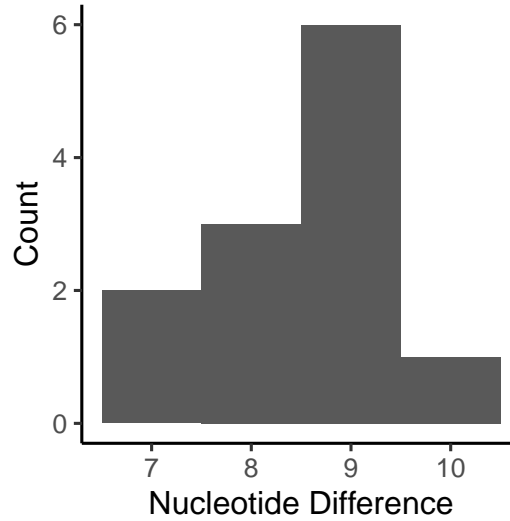
IGHV1-69-2*01

1 sequences assigned
No exact matches.



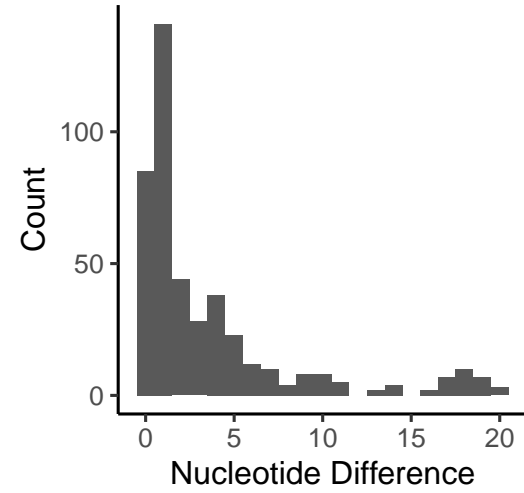
IGHV1-NL1*01

12 sequences assigned
No exact matches.



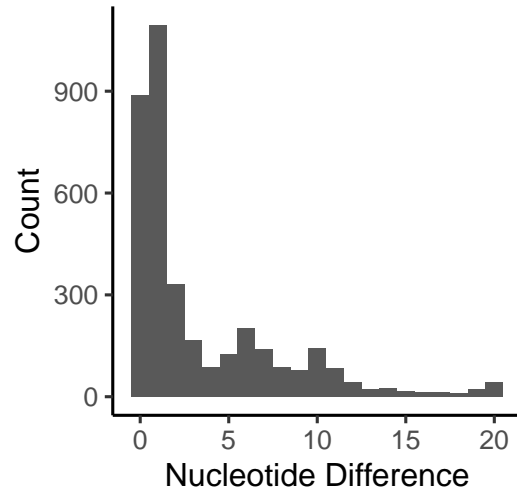
IGHV2-70*01

442 sequences assigned
85 (19.2%) exact matches, in which:
61 unique CDR3
6 unique J



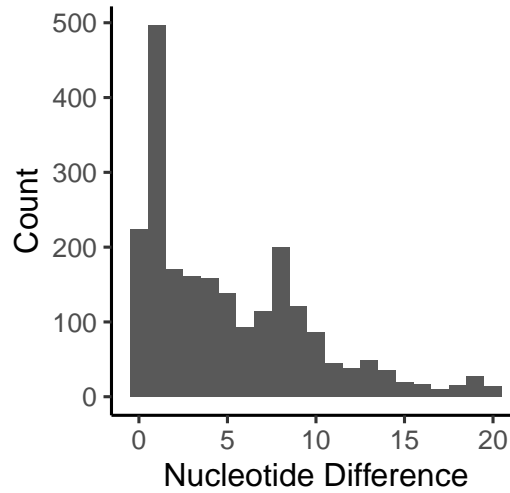
IGHV1-69*01_12_13

3819 sequences assigned
887 (23.2%) exact matches, in which:
744 unique CDR3
7 unique J



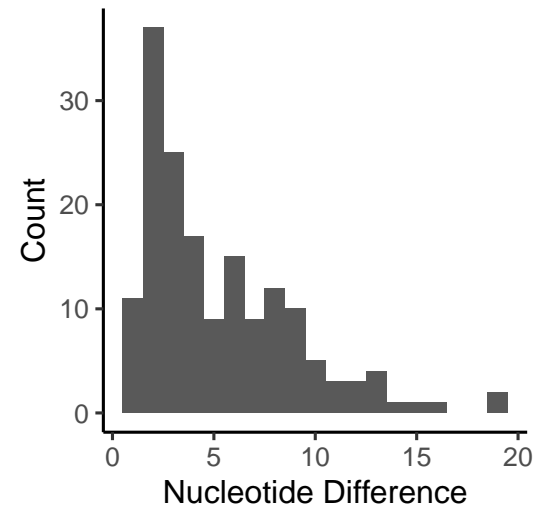
IGHV2-5*02

2287 sequences assigned
224 (9.8%) exact matches, in which:
156 unique CDR3
6 unique J



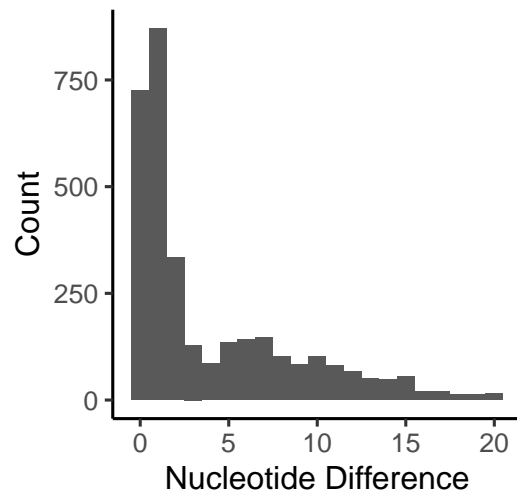
IGHV2-70*12

165 sequences assigned
No exact matches.



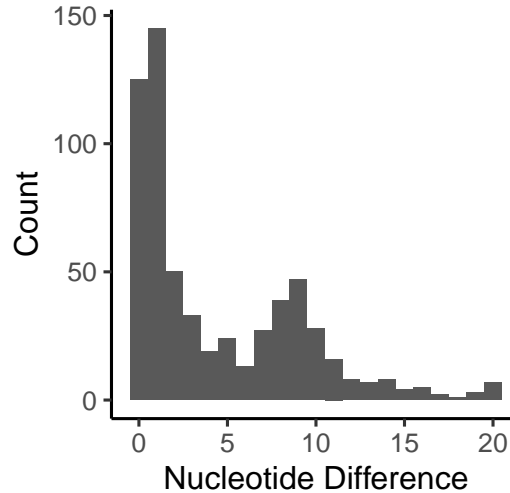
IGHV1-69*04_09

3420 sequences assigned
726 (21.2%) exact matches, in which:
605 unique CDR3
7 unique J



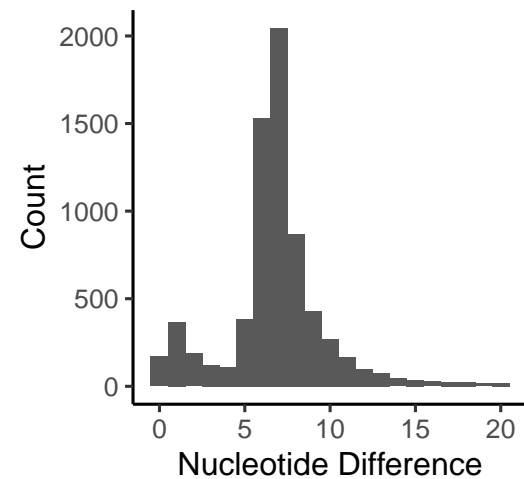
IGHV2-26*01

618 sequences assigned
125 (20.2%) exact matches, in which:
87 unique CDR3
6 unique J



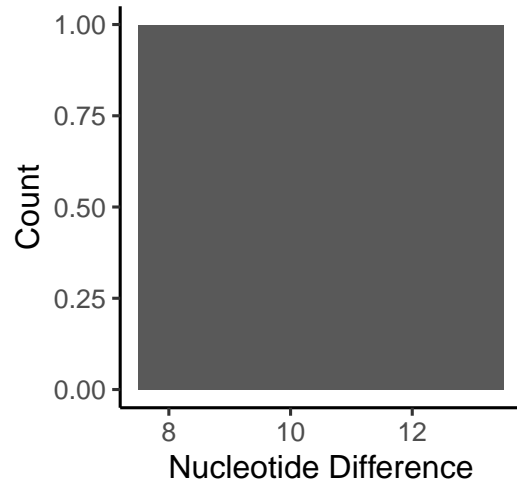
IGHV2-70*11_15

7093 sequences assigned
171 (2.4%) exact matches, in which:
121 unique CDR3
6 unique J



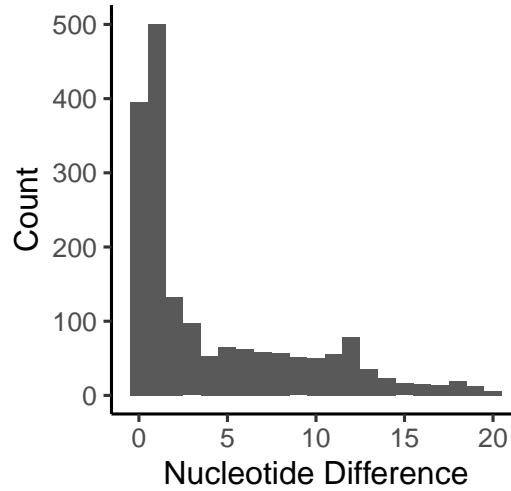
IGHV2-70D*14

6 sequences assigned
No exact matches.



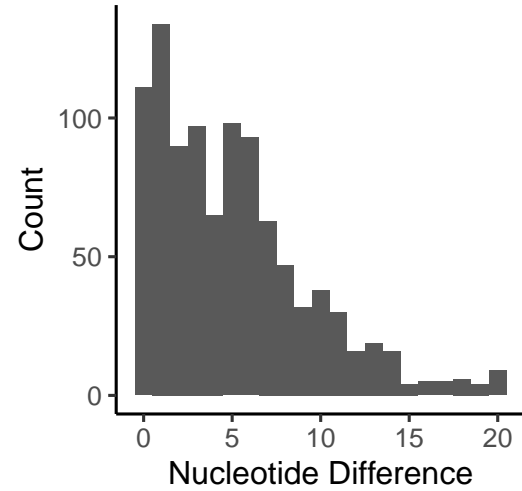
IGHV3-9*01

1879 sequences assigned
395 (21%) exact matches, in which:
202 unique CDR3
7 unique J



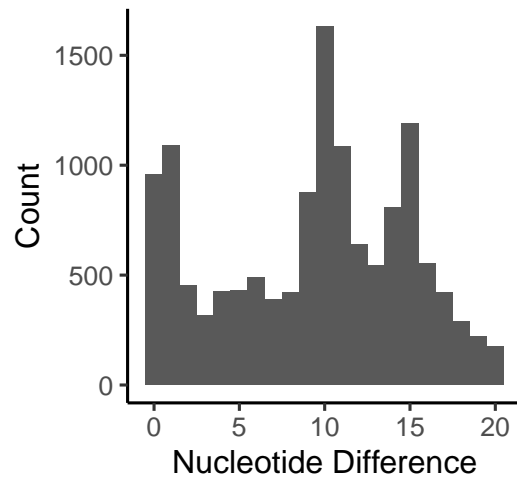
IGHV3-11*06

1033 sequences assigned
111 (10.7%) exact matches, in which:
106 unique CDR3
6 unique J



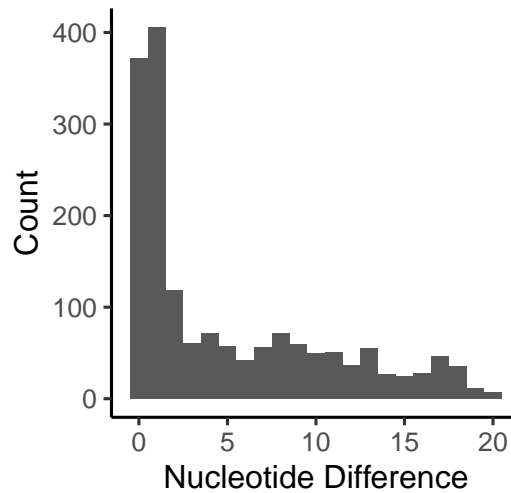
IGHV3-7*01

15167 sequences assigned
958 (6.3%) exact matches, in which:
651 unique CDR3
7 unique J



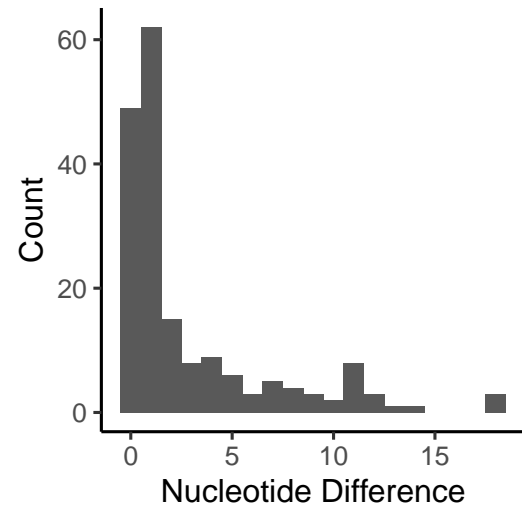
IGHV3-11*01

2575 sequences assigned
372 (14.4%) exact matches, in which:
242 unique CDR3
7 unique J



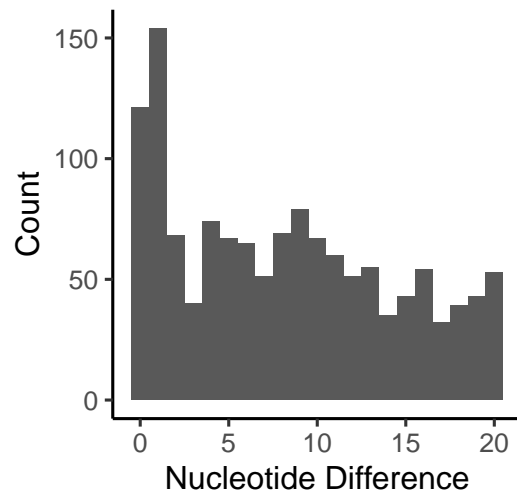
IGHV3-13*01

184 sequences assigned
49 (26.6%) exact matches, in which:
31 unique CDR3
5 unique J



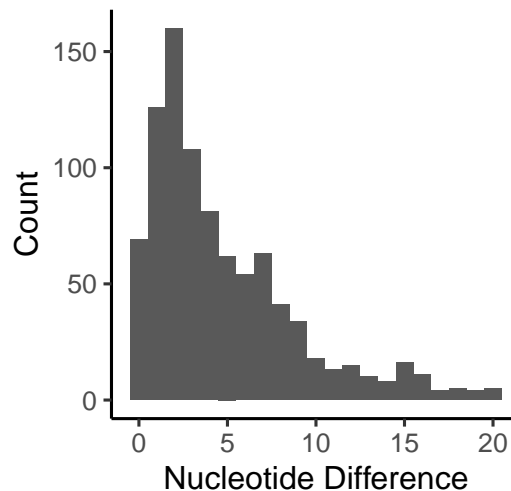
IGHV3-7*03

1855 sequences assigned
121 (6.5%) exact matches, in which:
93 unique CDR3
7 unique J



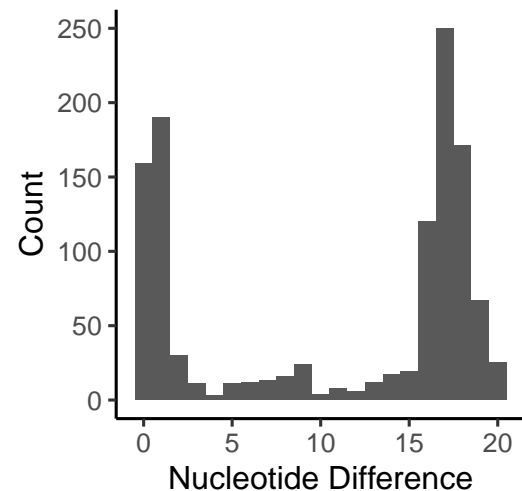
IGHV3-11*04

1008 sequences assigned
69 (6.8%) exact matches, in which:
63 unique CDR3
6 unique J



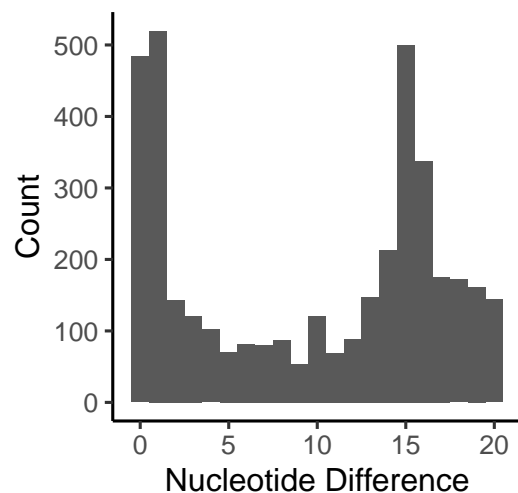
IGHV3-13*04

1385 sequences assigned
159 (11.5%) exact matches, in which:
81 unique CDR3
5 unique J



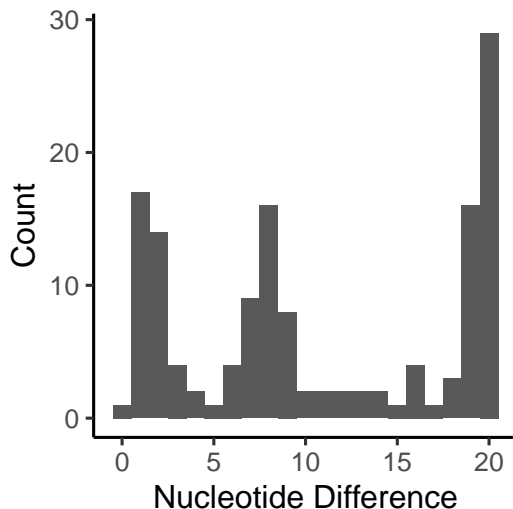
IGHV3-15*01_02

5725 sequences assigned
484 (8.5%) exact matches, in which:
282 unique CDR3
6 unique J



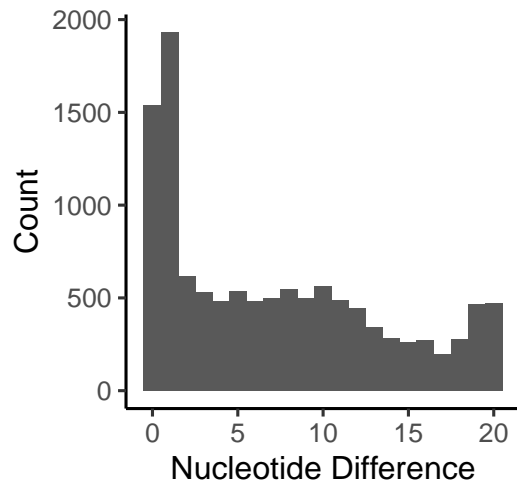
IGHV3-20*03_04

202 sequences assigned
1 (0.5%) exact matches, in which:
1 unique CDR3
1 unique J



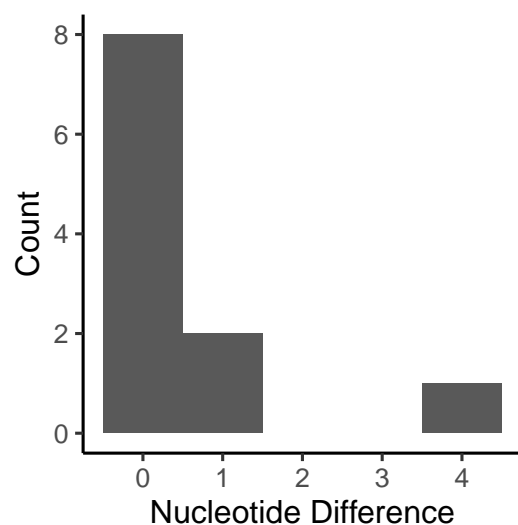
IGHV3-23*01_04

18566 sequences assigned
1537 (8.3%) exact matches, in which:
879 unique CDR3
7 unique J



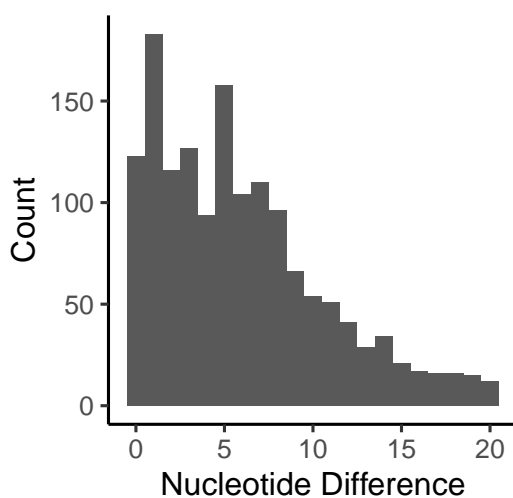
IGHV3-19*01

11 sequences assigned
8 (72.7%) exact matches, in which:
8 unique CDR3
4 unique J



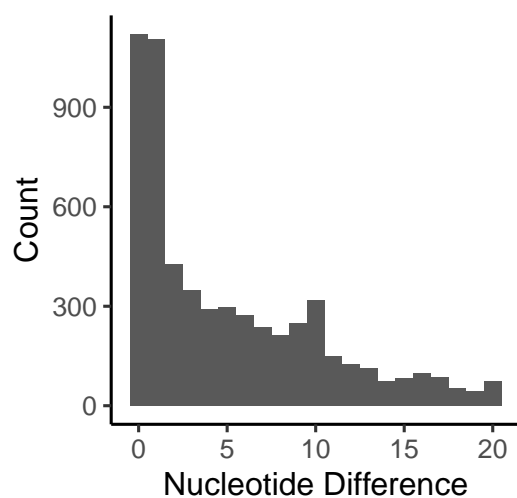
IGHV3-21*04

1668 sequences assigned
123 (7.4%) exact matches, in which:
103 unique CDR3
6 unique J



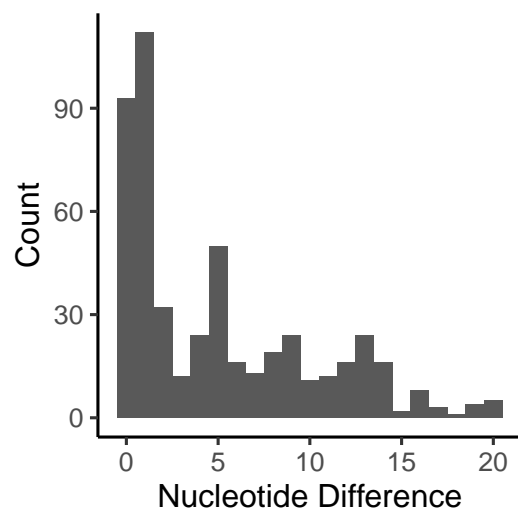
IGHV3-30-3*01

6036 sequences assigned
1121 (18.6%) exact matches, in which:
715 unique CDR3
7 unique J



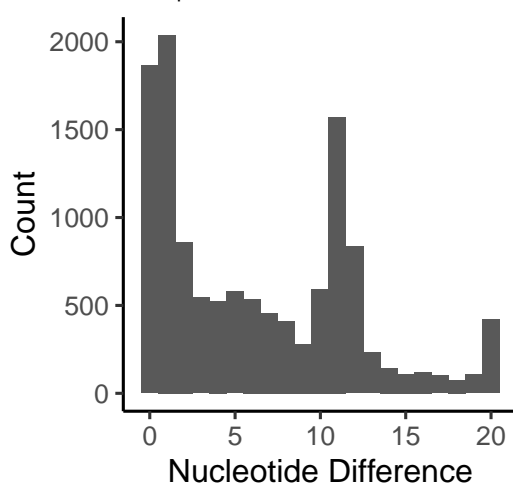
IGHV3-20*01_02

1701 sequences assigned
93 (5.5%) exact matches, in which:
56 unique CDR3
7 unique J



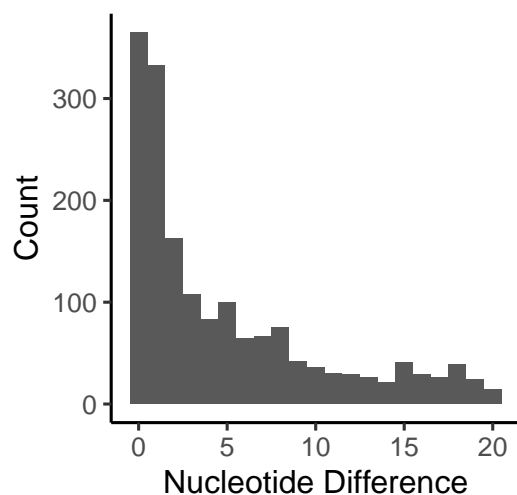
IGHV3-21*01_02

16298 sequences assigned
1865 (11.4%) exact matches, in which:
1152 unique CDR3
7 unique J



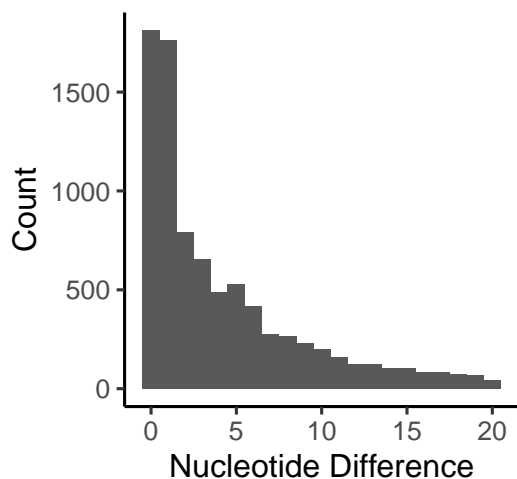
IGHV3-30*03

1788 sequences assigned
365 (20.4%) exact matches, in which:
318 unique CDR3
7 unique J



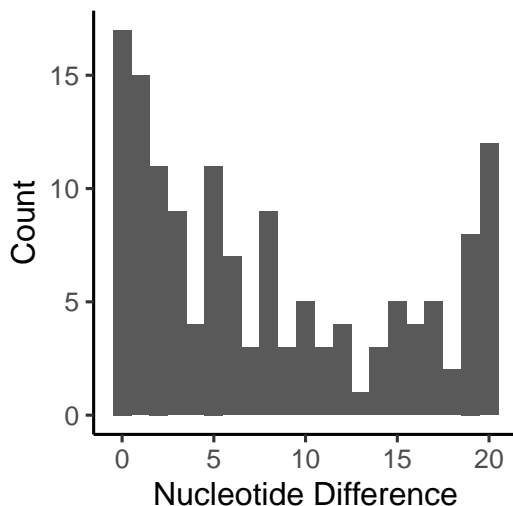
IGHV3-30*04

9334 sequences assigned
1812 (19.4%) exact matches, in which:
1207 unique CDR3
7 unique J



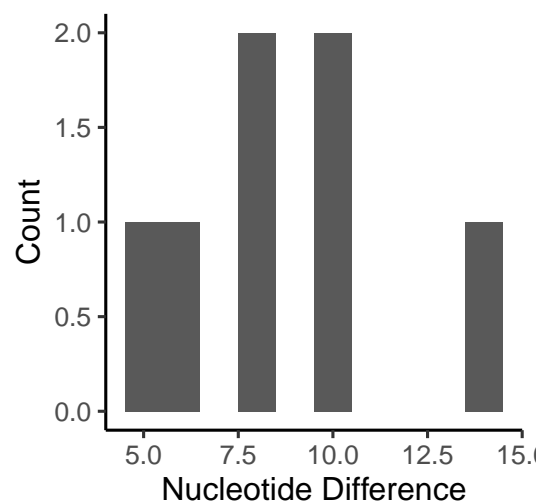
IGHV3-33*05

165 sequences assigned
17 (10.3%) exact matches, in which:
17 unique CDR3
5 unique J



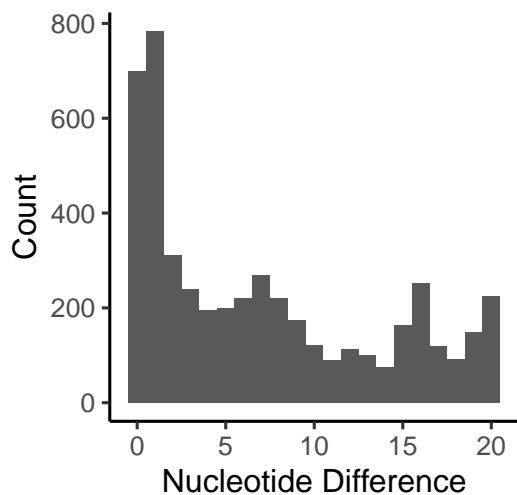
IGHV3-35*01

7 sequences assigned
No exact matches.



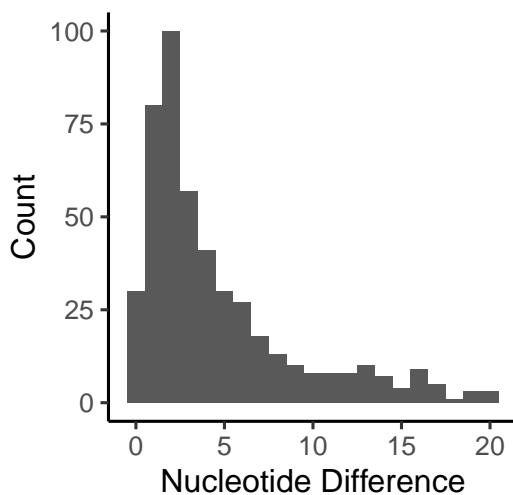
IGHV3-30*18

5095 sequences assigned
699 (13.7%) exact matches, in which:
386 unique CDR3
7 unique J



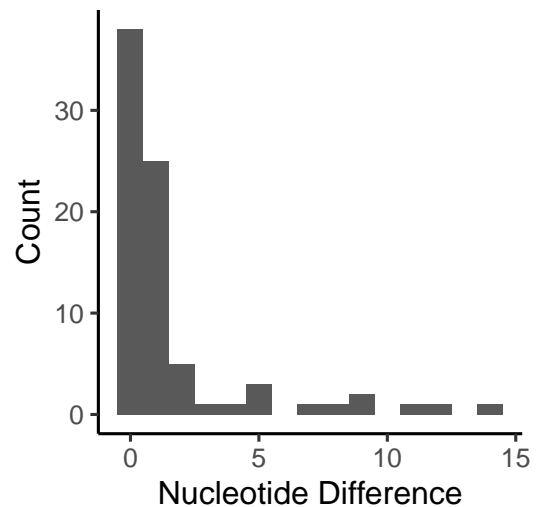
IGHV3-33*06

501 sequences assigned
30 (6%) exact matches, in which:
29 unique CDR3
4 unique J



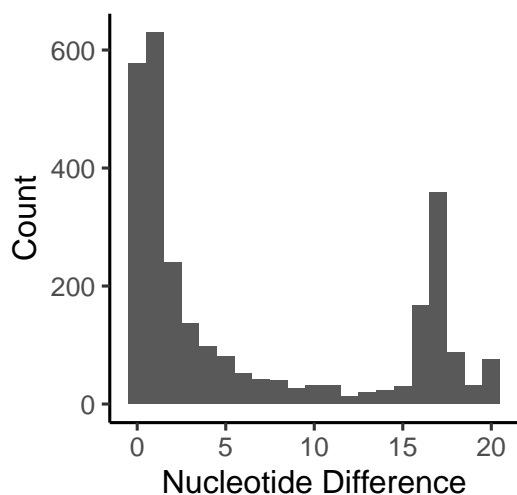
IGHV3-43*01

81 sequences assigned
38 (46.9%) exact matches, in which:
23 unique CDR3
6 unique J



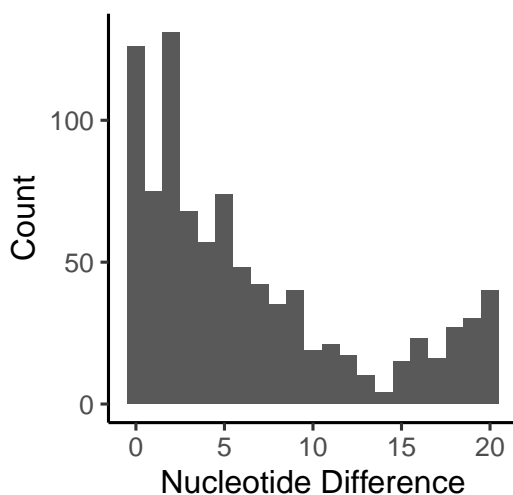
IGHV3-33*01

5042 sequences assigned
577 (11.4%) exact matches, in which:
394 unique CDR3
7 unique J



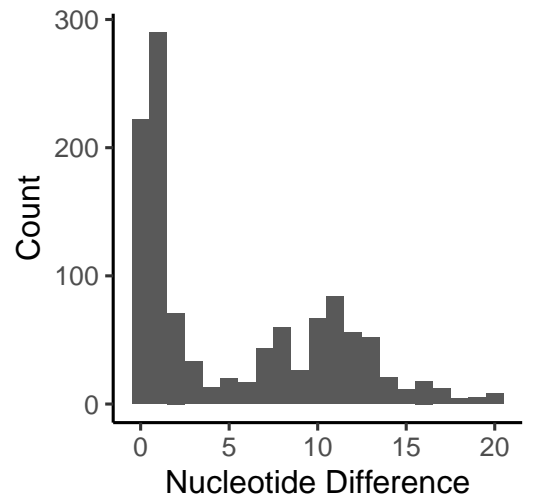
IGHV3-33*08

1109 sequences assigned
126 (11.4%) exact matches, in which:
85 unique CDR3
6 unique J



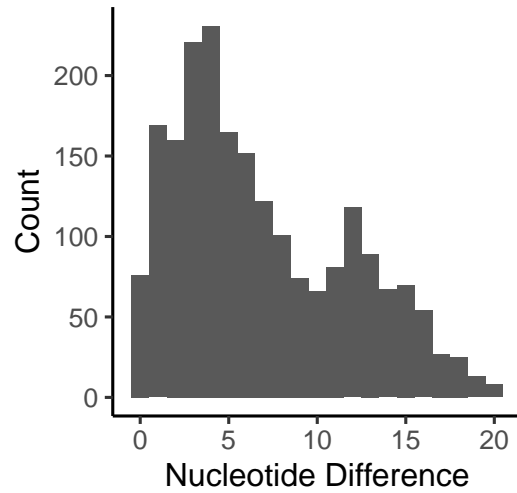
IGHV3-43*02

1147 sequences assigned
222 (19.4%) exact matches, in which:
132 unique CDR3
6 unique J



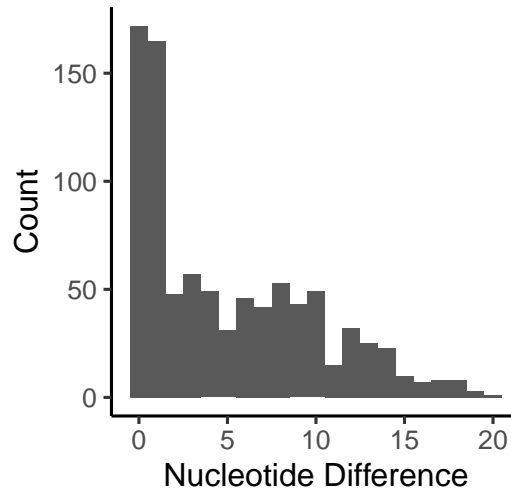
IGHV3-48*01

2149 sequences assigned
76 (3.5%) exact matches, in which:
70 unique CDR3
5 unique J



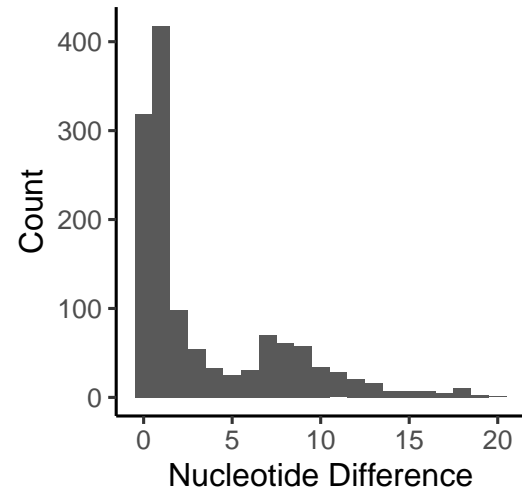
IGHV3-49*04

892 sequences assigned
172 (19.3%) exact matches, in which:
103 unique CDR3
7 unique J



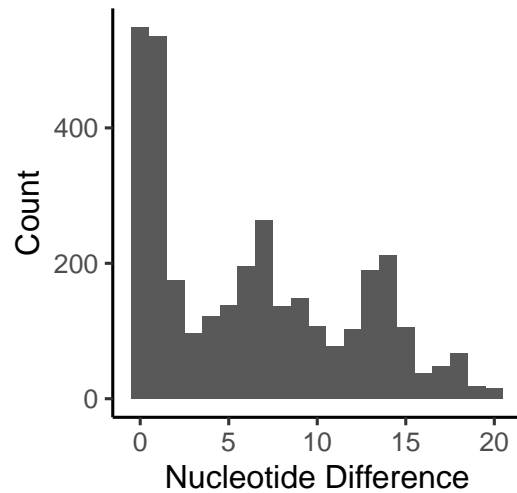
IGHV3-53*04

1318 sequences assigned
319 (24.2%) exact matches, in which:
197 unique CDR3
7 unique J



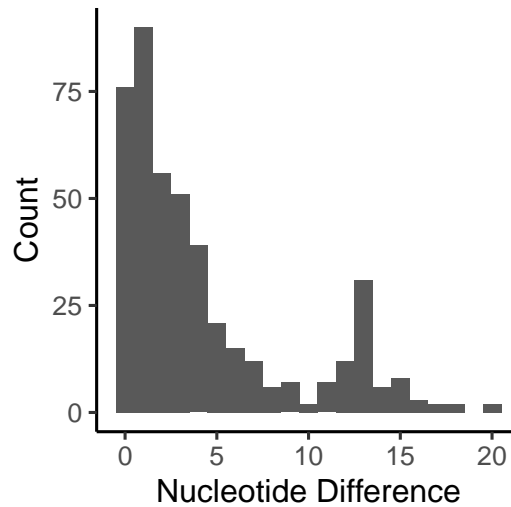
IGHV3-48*02

3388 sequences assigned
549 (16.2%) exact matches, in which:
361 unique CDR3
7 unique J



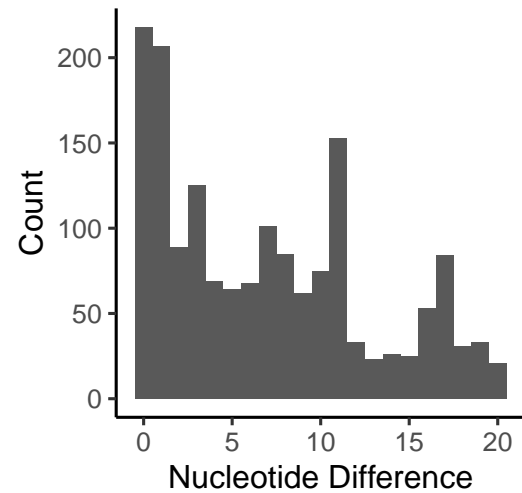
IGHV3-49*03_05

450 sequences assigned
76 (16.9%) exact matches, in which:
46 unique CDR3
5 unique J



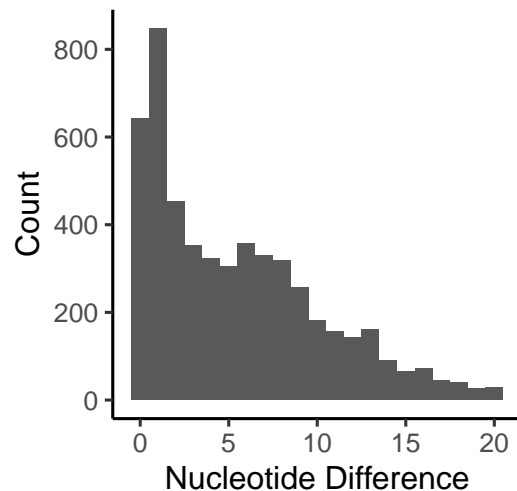
IGHV3-53*01_02

1844 sequences assigned
218 (11.8%) exact matches, in which:
154 unique CDR3
7 unique J



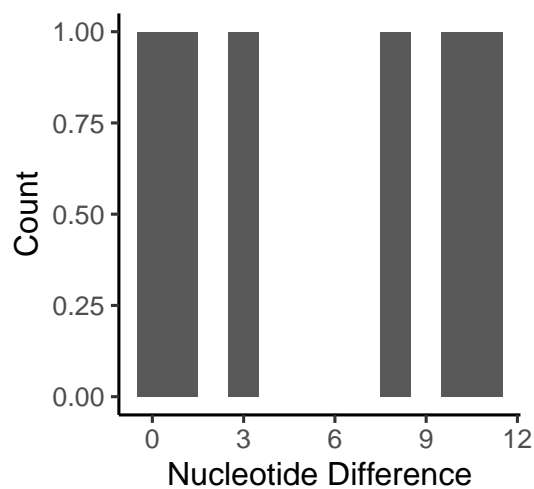
IGHV3-48*03

5384 sequences assigned
642 (11.9%) exact matches, in which:
389 unique CDR3
7 unique J



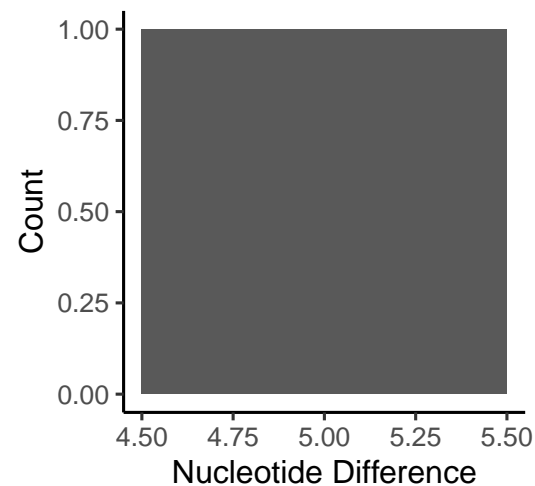
IGHV3-52*01_03

6 sequences assigned
1 (16.7%) exact matches, in which:
1 unique CDR3
1 unique J



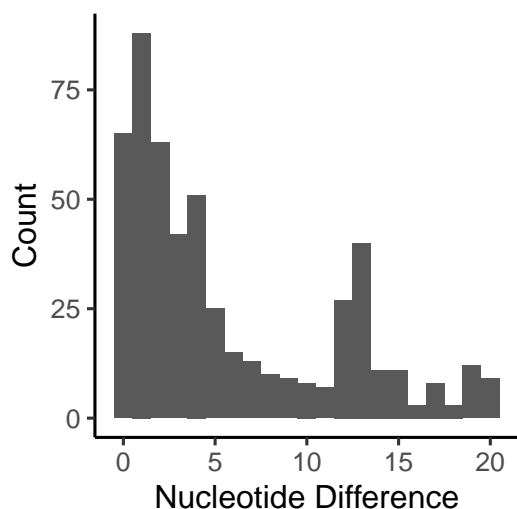
IGHV3-62*03

1 sequences assigned
No exact matches.



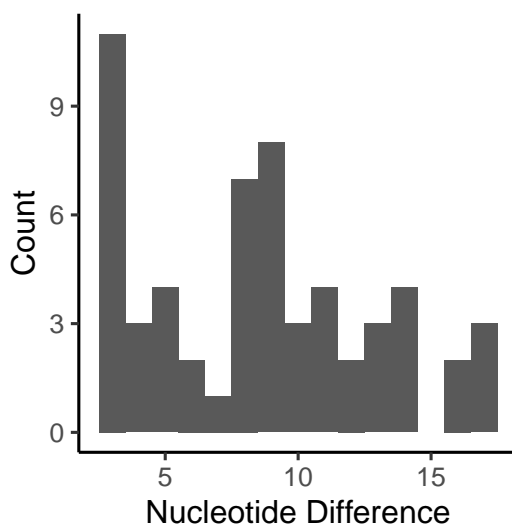
IGHV3-64*01

546 sequences assigned
65 (11.9%) exact matches, in which:
48 unique CDR3
5 unique J



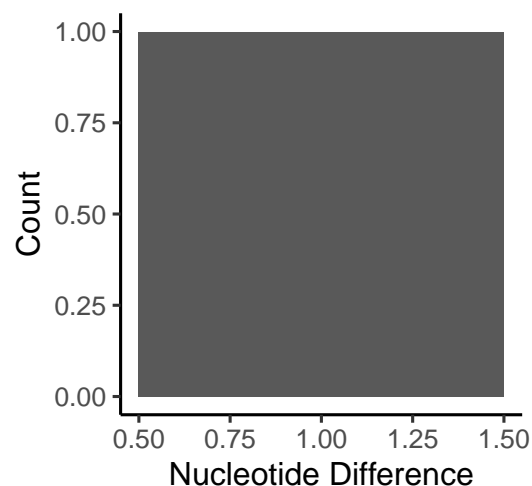
IGHV3-69-1*01

105 sequences assigned
No exact matches.



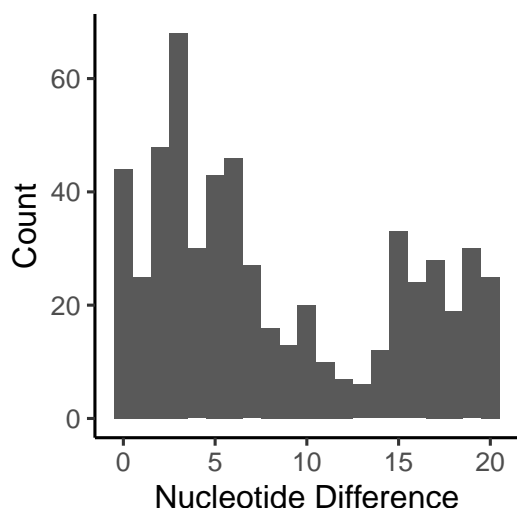
IGHV3-71*01_04

1 sequences assigned
No exact matches.



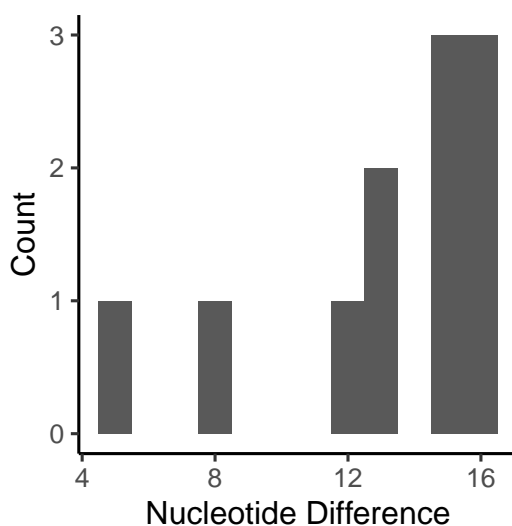
IGHV3-64*04

2997 sequences assigned
44 (1.5%) exact matches, in which:
43 unique CDR3
5 unique J



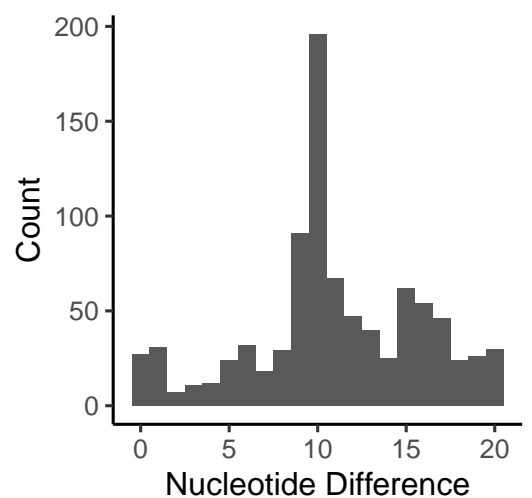
IGHV3-69-1*02

29 sequences assigned
No exact matches.



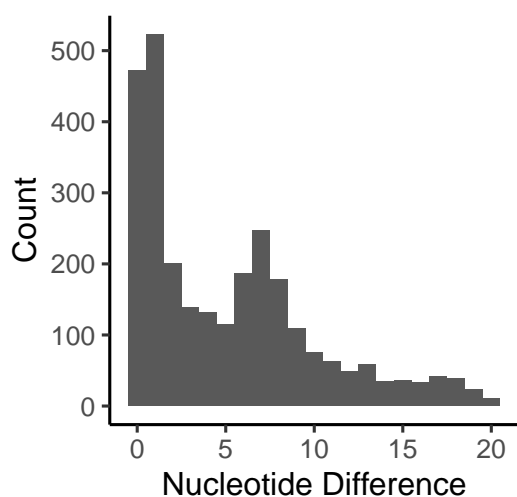
IGHV3-72*01

992 sequences assigned
27 (2.7%) exact matches, in which:
13 unique CDR3
4 unique J



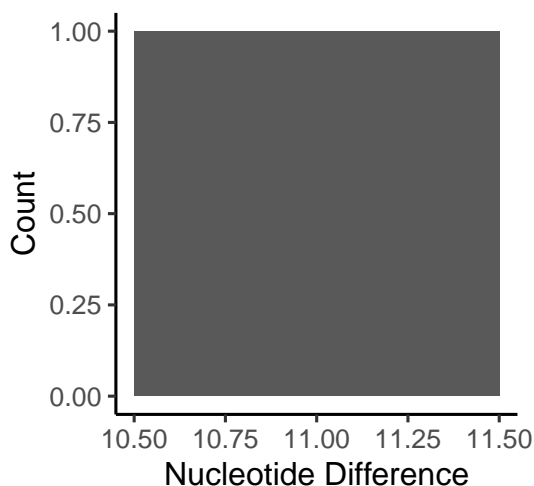
IGHV3-66*01

2835 sequences assigned
472 (16.6%) exact matches, in which:
333 unique CDR3
7 unique J



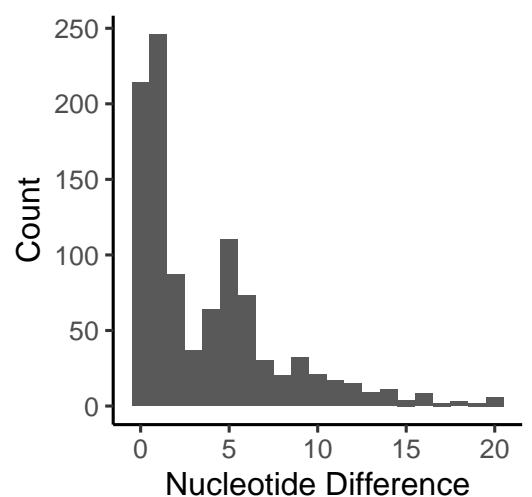
IGHV3-71*03

1 sequences assigned
No exact matches.



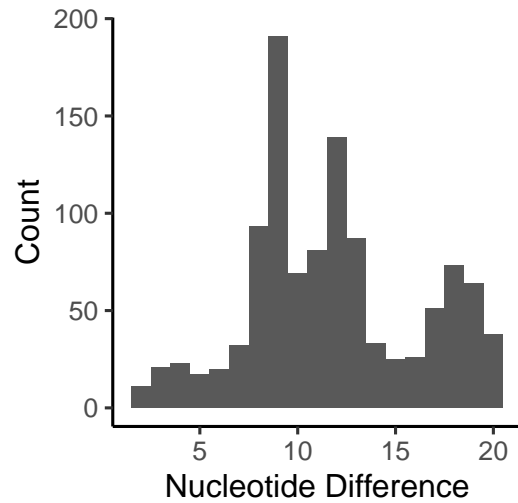
IGHV3-73*01_02

2574 sequences assigned
214 (8.3%) exact matches, in which:
127 unique CDR3
6 unique J



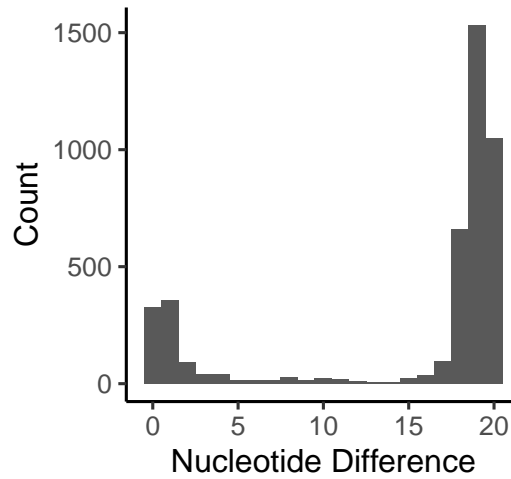
IGHV3-74*03

2121 sequences assigned
No exact matches.



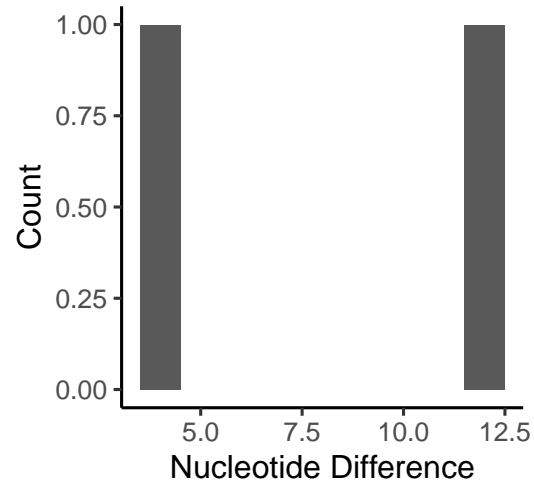
IGHV3-64D*09

5245 sequences assigned
328 (6.3%) exact matches, in which:
191 unique CDR3
7 unique J



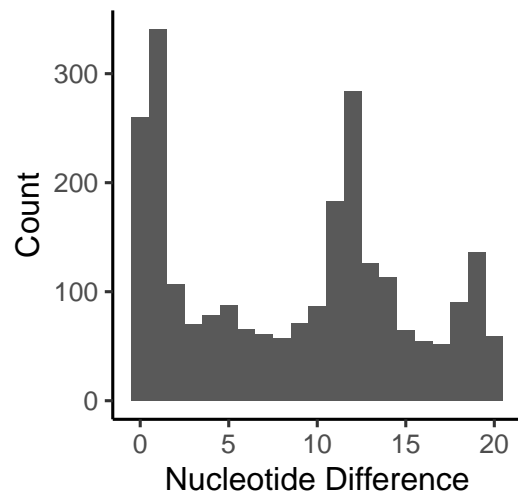
IGHV4-28*03

2 sequences assigned
No exact matches.



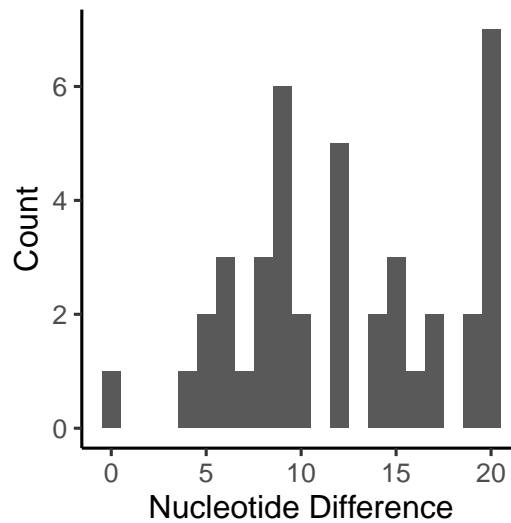
IGHV3-74*01_02

2600 sequences assigned
260 (10%) exact matches, in which:
159 unique CDR3
6 unique J



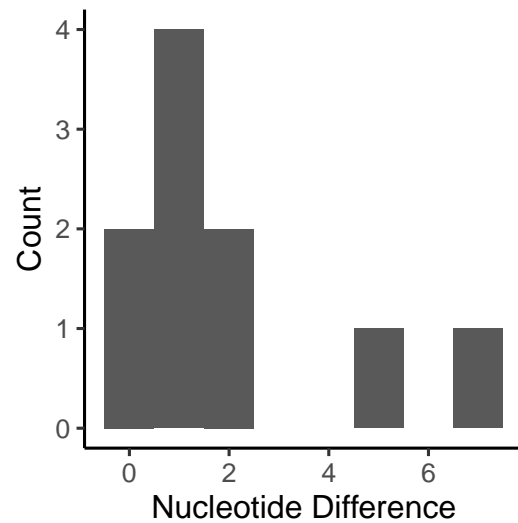
IGHV3-NL1*01

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



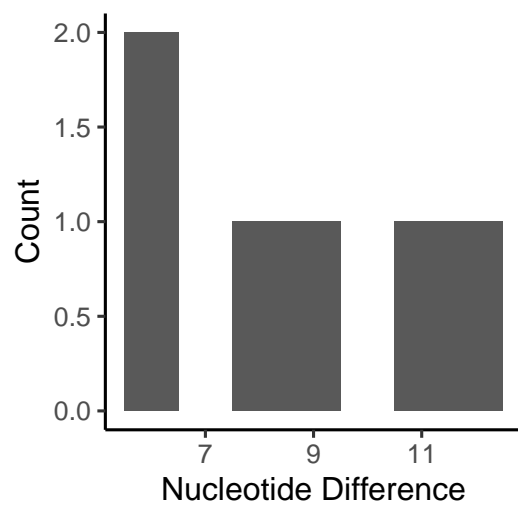
IGHV4-28*01_07

10 sequences assigned
2 (20%) exact matches, in which:
1 unique CDR3
1 unique J



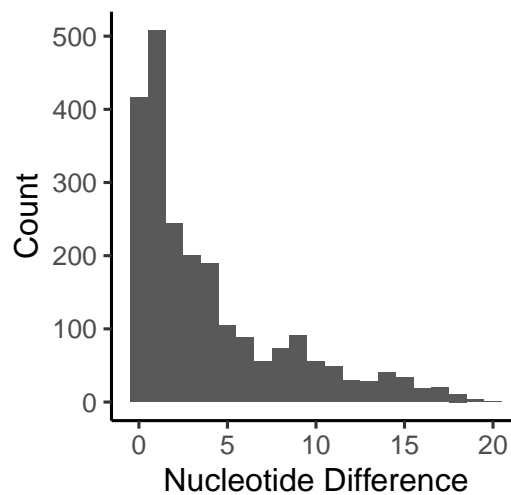
IGHV3-43D*04

6 sequences assigned
No exact matches.



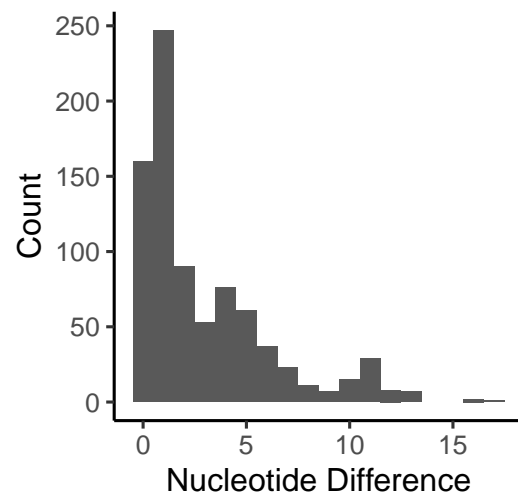
IGHV4-4*07

2313 sequences assigned
416 (18%) exact matches, in which:
338 unique CDR3
7 unique J



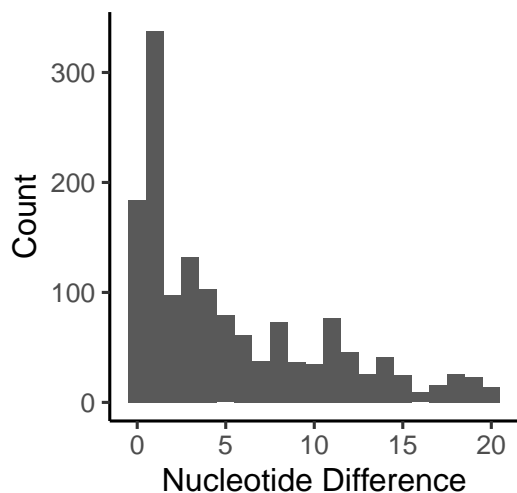
IGHV4-30-2*01

886 sequences assigned
160 (18.1%) exact matches, in which:
72 unique CDR3
7 unique J



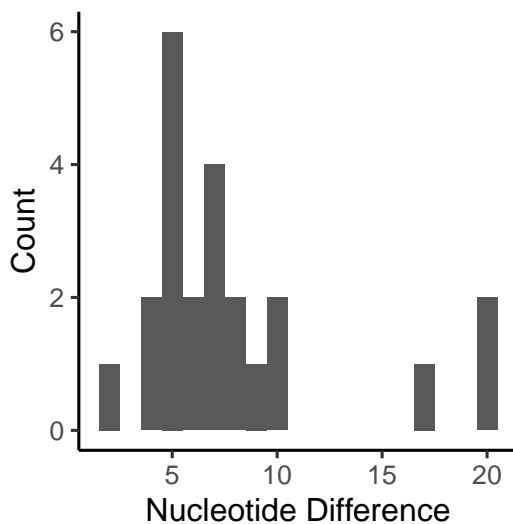
IGHV4-30-4*01

1577 sequences assigned
184 (11.7%) exact matches, in which:
126 unique CDR3
6 unique J



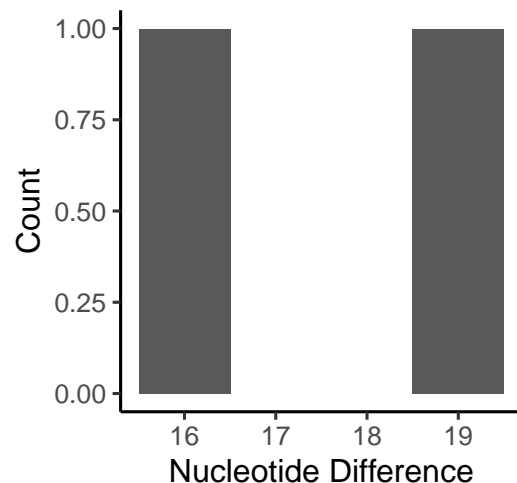
IGHV4-30-4*07

23 sequences assigned
No exact matches.



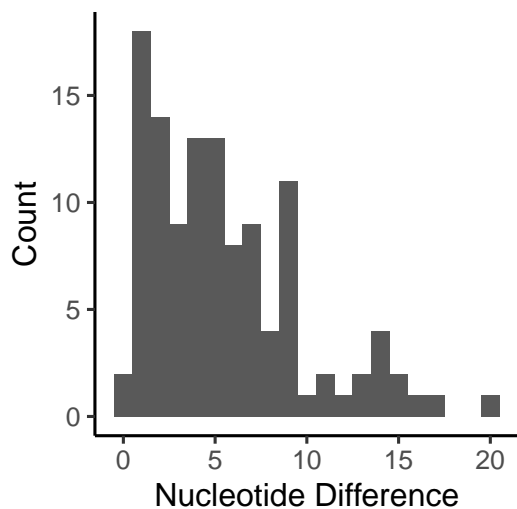
IGHV4-38-2*01

3 sequences assigned
No exact matches.



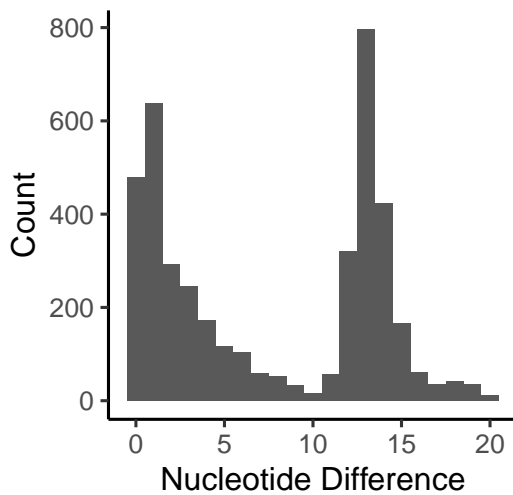
IGHV4-30-2*03

121 sequences assigned
2 (1.7%) exact matches, in which:
2 unique CDR3
2 unique J



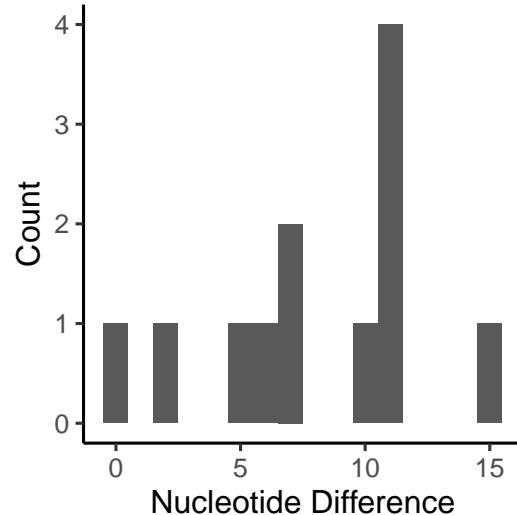
IGHV4-31*02

4307 sequences assigned
480 (11.1%) exact matches, in which:
367 unique CDR3
7 unique J



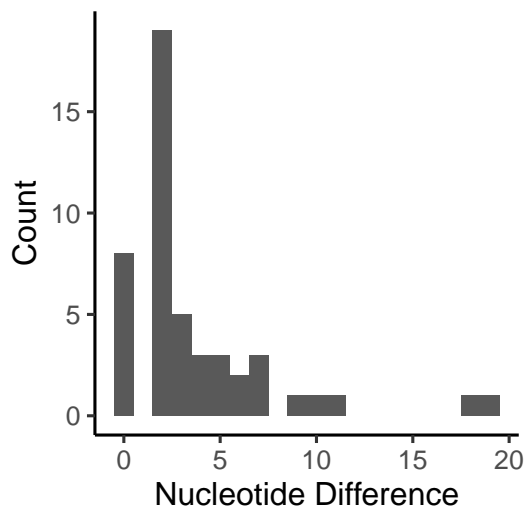
IGHV4-38-2*02

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



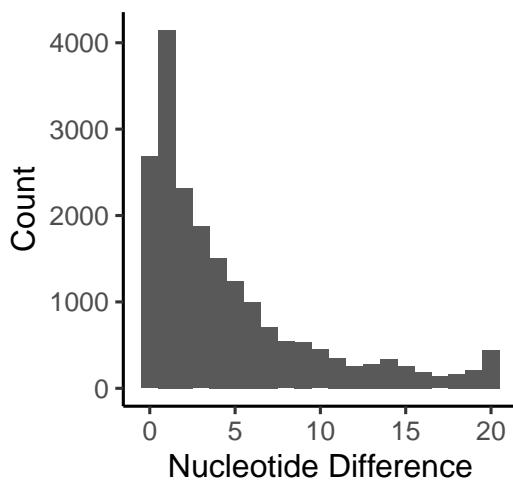
IGHV4-30-2*05

48 sequences assigned
8 (16.7%) exact matches, in which:
8 unique CDR3
3 unique J



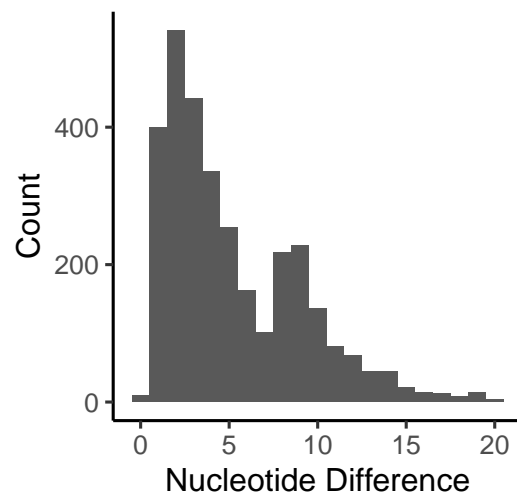
IGHV4-34*01_02

22532 sequences assigned
2684 (11.9%) exact matches, in which:
1735 unique CDR3
7 unique J



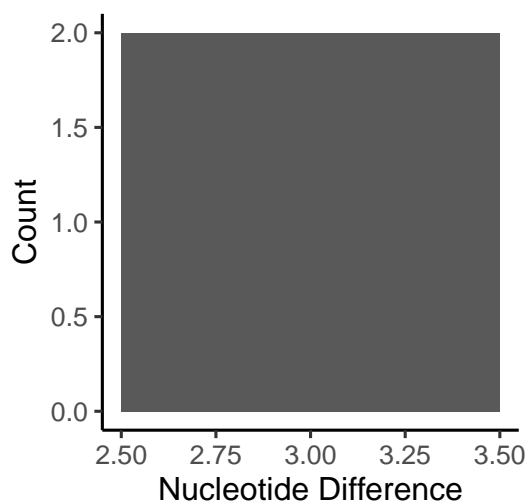
IGHV4-39*07

3335 sequences assigned
10 (0.3%) exact matches, in which:
10 unique CDR3
4 unique J



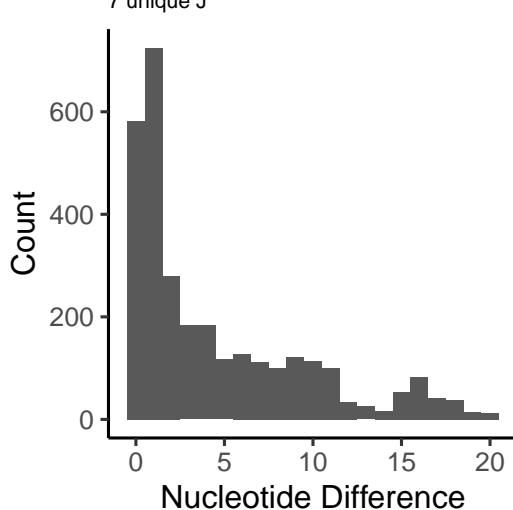
IGHV4-55*09

2 sequences assigned
No exact matches.



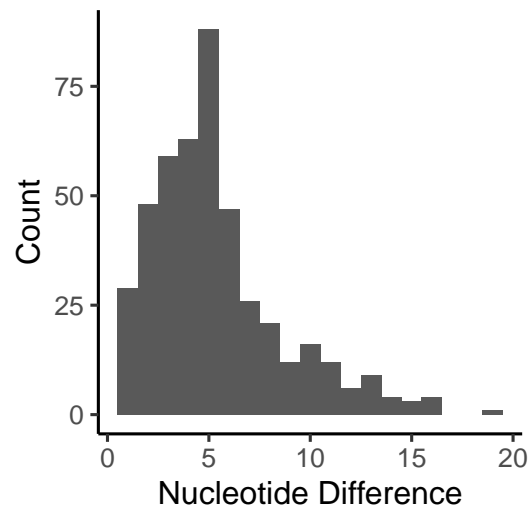
IGHV4-59*13

3360 sequences assigned
582 (17.3%) exact matches, in which:
454 unique CDR3
7 unique J



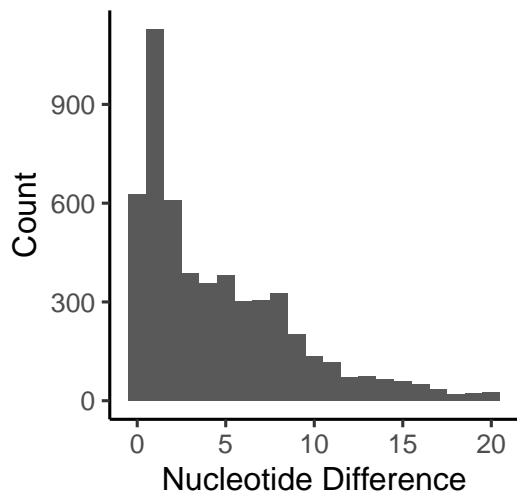
IGHV4-61*08

461 sequences assigned
No exact matches.



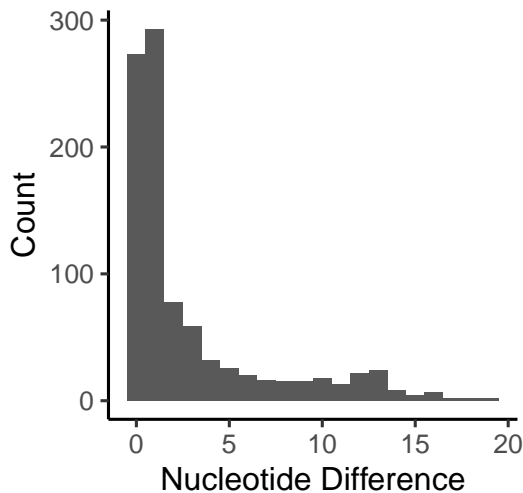
IGHV4-59*08

5504 sequences assigned
627 (11.4%) exact matches, in which:
459 unique CDR3
7 unique J



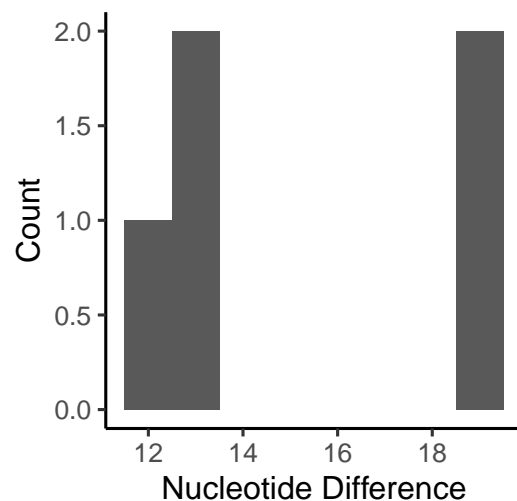
IGHV4-61*01

948 sequences assigned
273 (28.8%) exact matches, in which:
224 unique CDR3
7 unique J



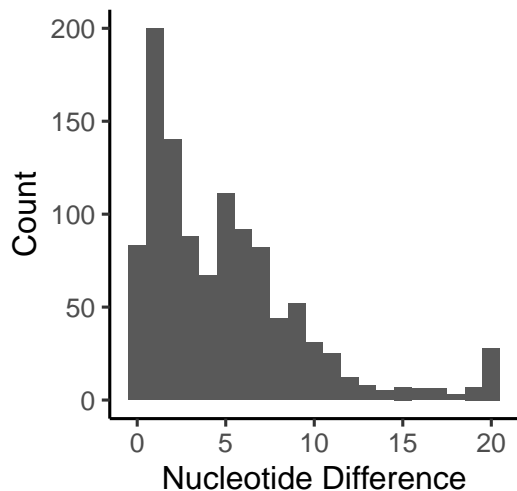
IGHV1/OR15-2*02_03

8 sequences assigned
No exact matches.



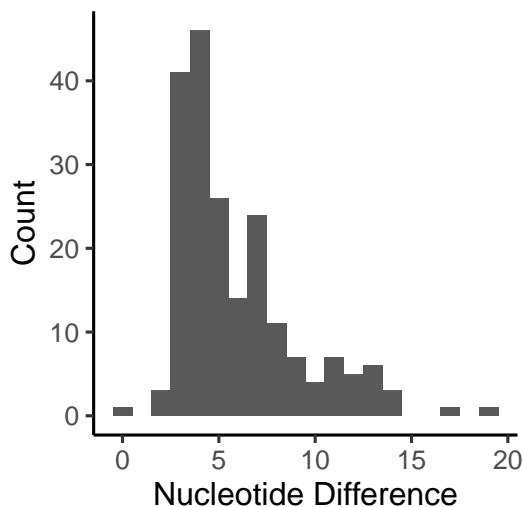
IGHV4-59*12

1227 sequences assigned
83 (6.8%) exact matches, in which:
75 unique CDR3
6 unique J



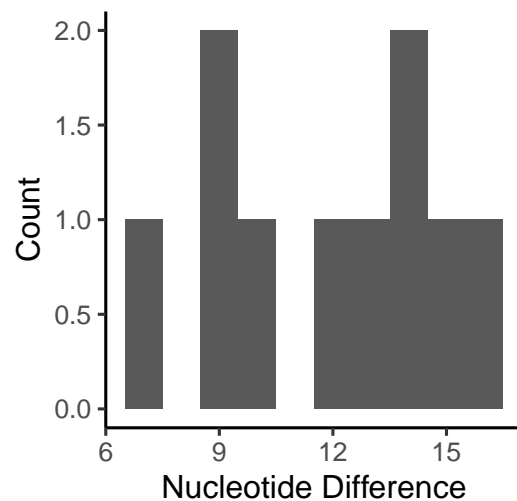
IGHV4-61*02

202 sequences assigned
1 (0.5%) exact matches, in which:
1 unique CDR3
1 unique J



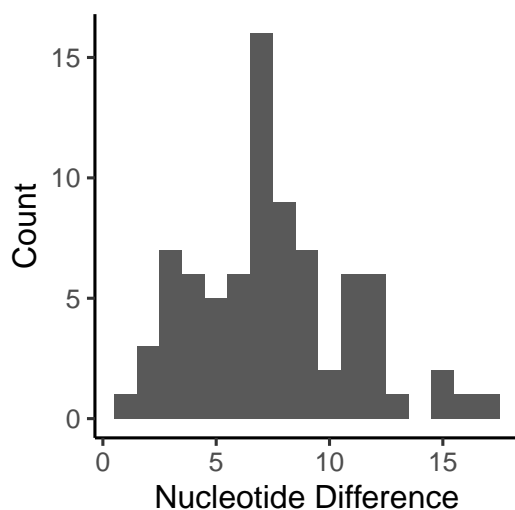
IGHV1/OR15-3*02

10 sequences assigned
No exact matches.



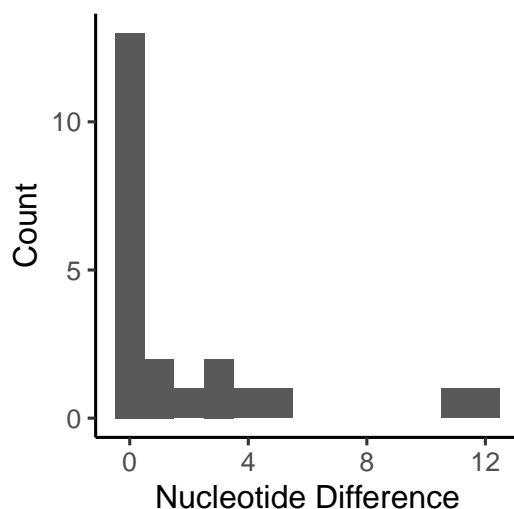
IGHV4/OR15-8*01

87 sequences assigned
No exact matches.



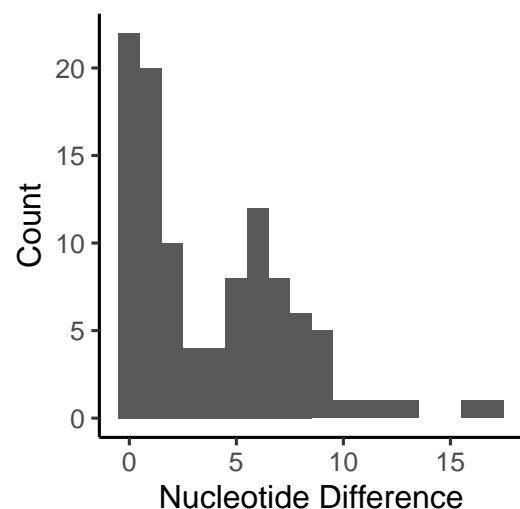
IGHV5-51*06

27 sequences assigned
13 (48.1%) exact matches, in which:
13 unique CDR3
4 unique J



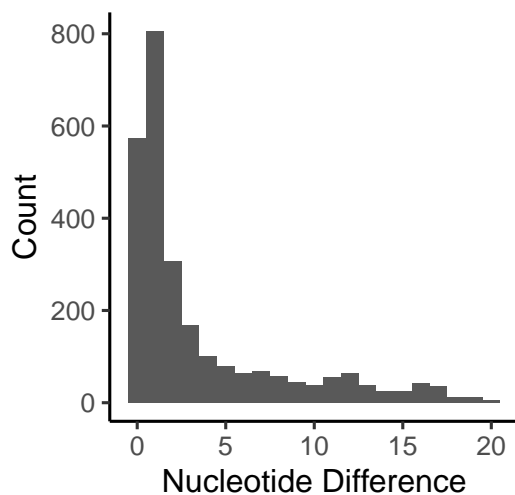
IGHV6-1*01_02_A315G

105 sequences assigned
22 (21%) exact matches, in which:
21 unique CDR3
5 unique J



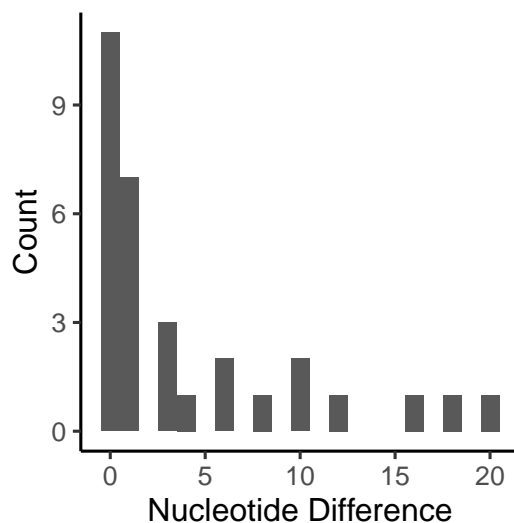
IGHV5-10-1*01_03

2637 sequences assigned
573 (21.7%) exact matches, in which:
366 unique CDR3
7 unique J



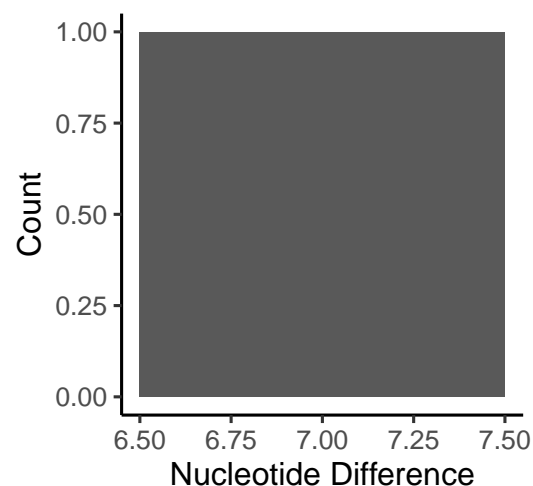
IGHV5-51*07

35 sequences assigned
11 (31.4%) exact matches, in which:
10 unique CDR3
4 unique J



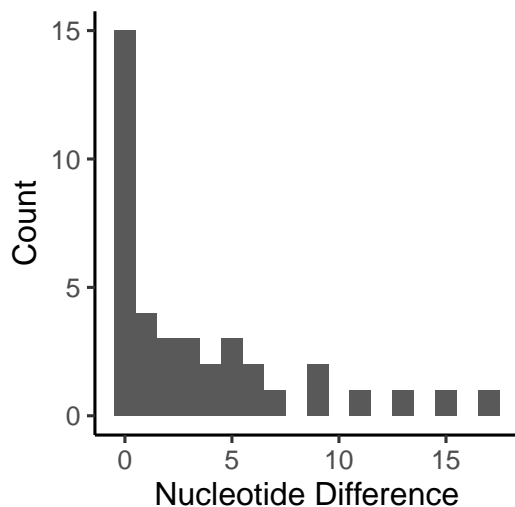
IGHV3/OR16-10*01_03

1 sequences assigned
No exact matches.



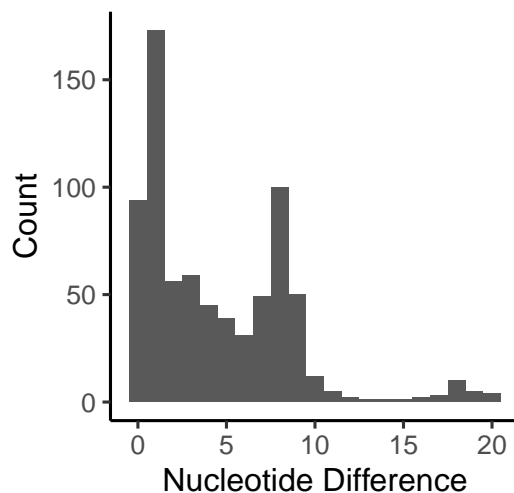
IGHV5-51*04

44 sequences assigned
15 (34.1%) exact matches, in which:
14 unique CDR3
4 unique J



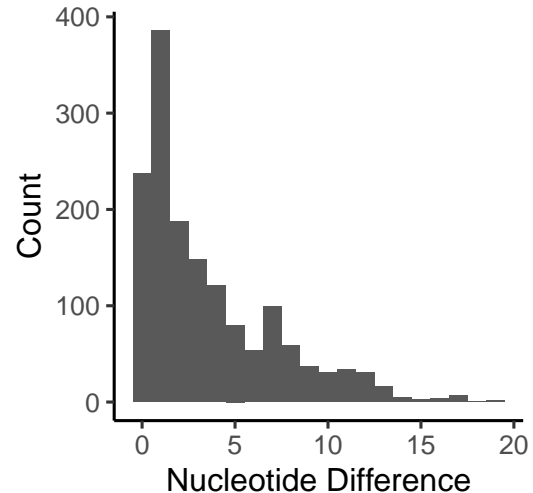
IGHV6-1*01_02

782 sequences assigned
94 (12%) exact matches, in which:
62 unique CDR3
5 unique J

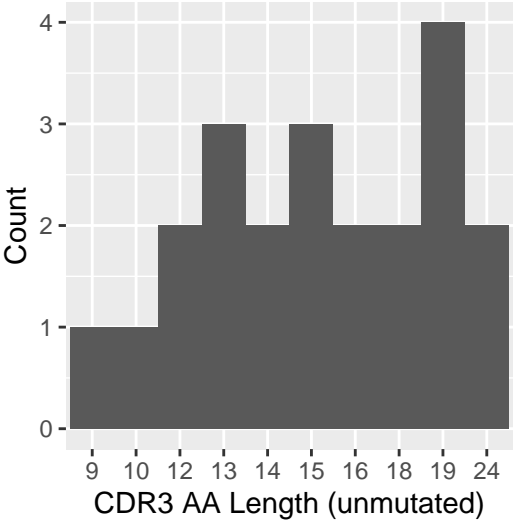


IGHV7-4-1*02

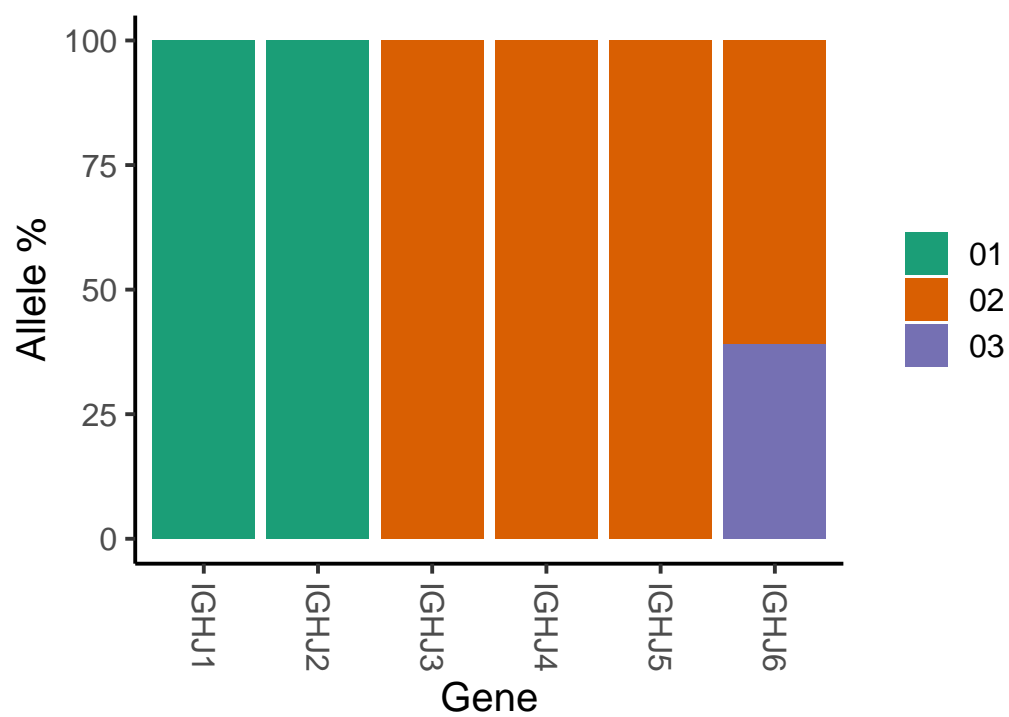
1714 sequences assigned
237 (13.8%) exact matches, in which:
181 unique CDR3
6 unique J



IGHV6-1*01_02_A315G



Allele Usage



Sequence Count by IGHJ6 allele usage

