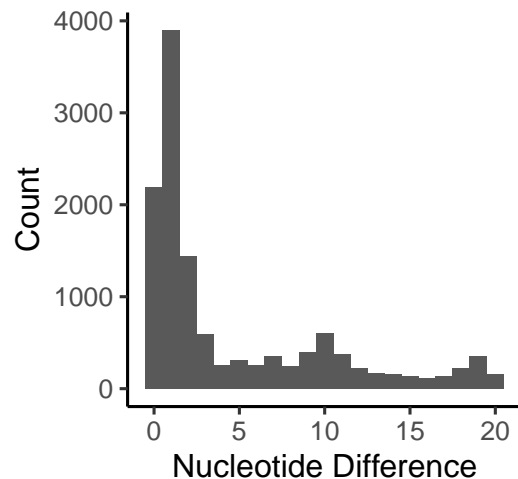


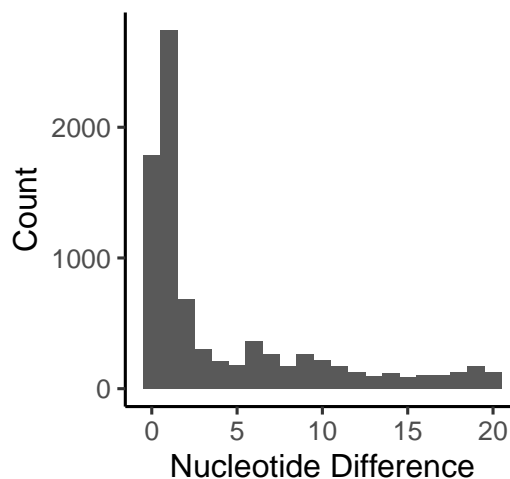
IGHV1-2*06

15300 sequences assigned
2194 (14.3%) exact matches, in which:
1513 unique CDR3
7 unique J



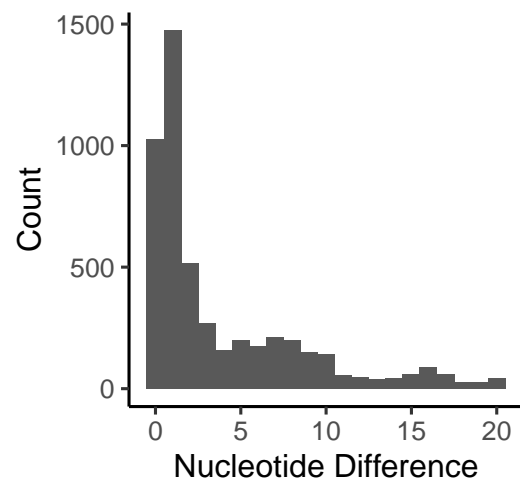
IGHV1-18*01

9442 sequences assigned
1783 (18.9%) exact matches, in which:
1327 unique CDR3
7 unique J



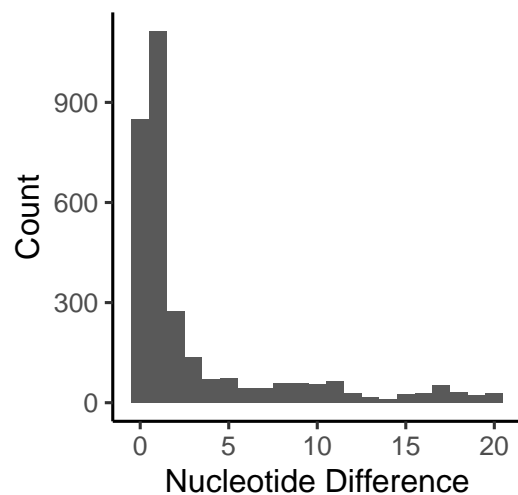
IGHV1-46*01

6196 sequences assigned
1026 (16.6%) exact matches, in which:
795 unique CDR3
7 unique J



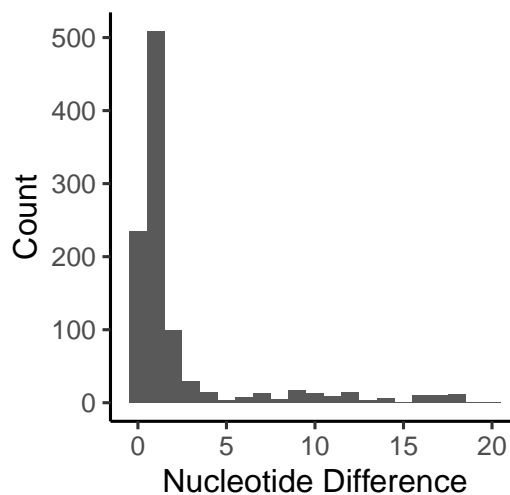
IGHV1-3*01_05

3323 sequences assigned
850 (25.6%) exact matches, in which:
632 unique CDR3
7 unique J



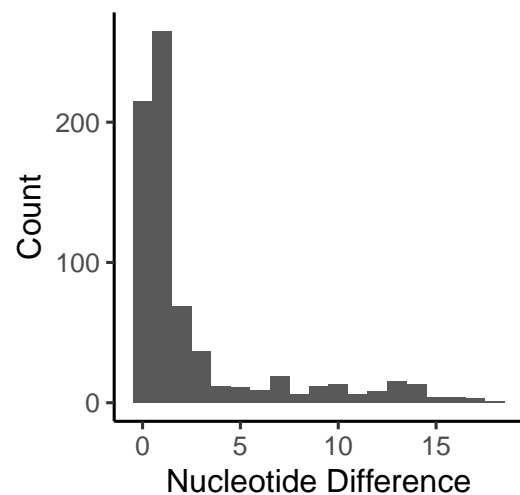
IGHV1-24*01

1049 sequences assigned
235 (22.4%) exact matches, in which:
134 unique CDR3
6 unique J



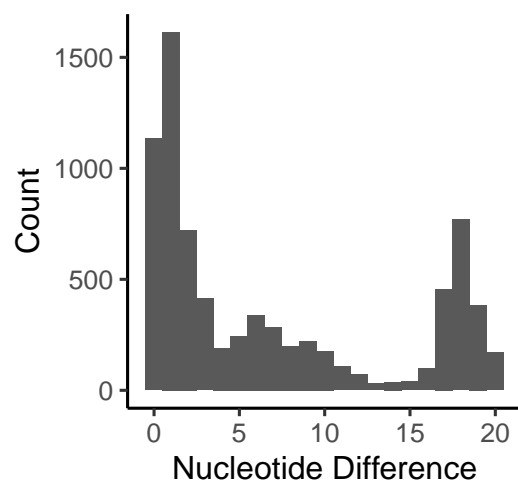
IGHV1-58*01_03

722 sequences assigned
215 (29.8%) exact matches, in which:
172 unique CDR3
6 unique J



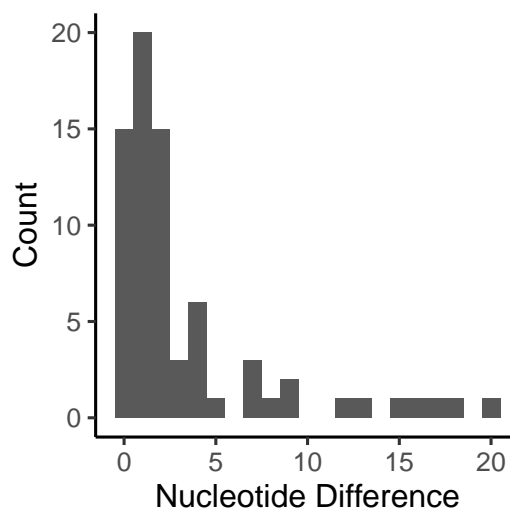
IGHV1-8*01

8102 sequences assigned
1135 (14%) exact matches, in which:
918 unique CDR3
7 unique J



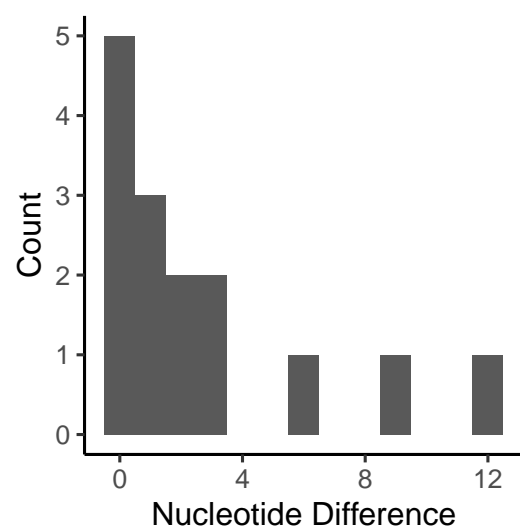
IGHV1-45*02

74 sequences assigned
15 (20.3%) exact matches, in which:
11 unique CDR3
4 unique J



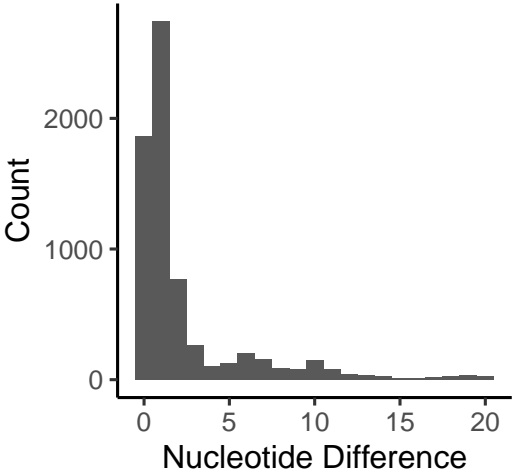
IGHV1-69-2*01

15 sequences assigned
5 (33.3%) exact matches, in which:
5 unique CDR3
2 unique J



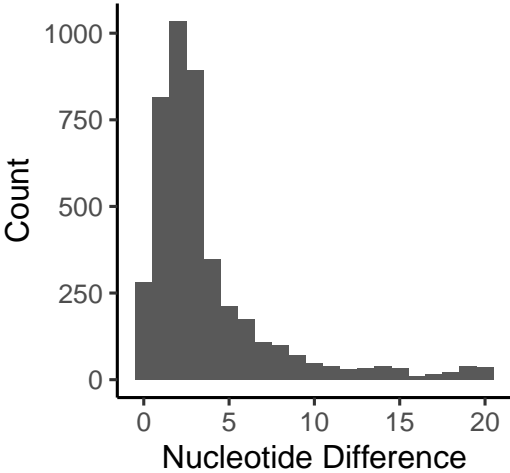
IGHV1-69*01_12_13

7145 sequences assigned
1867 (26.1%) exact matches, in which:
1388 unique CDR3
7 unique J



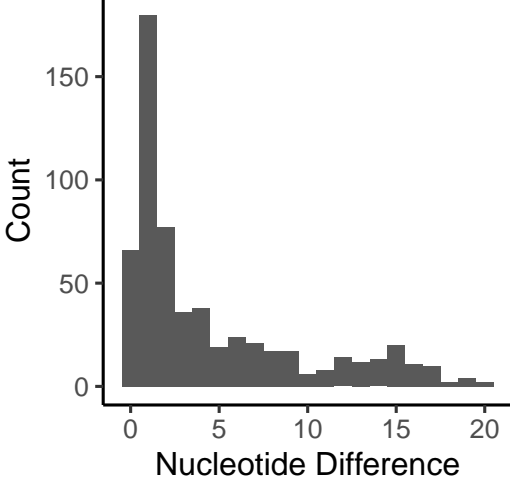
IGHV2-5*02

5210 sequences assigned
282 (5.4%) exact matches, in which:
179 unique CDR3
7 unique J



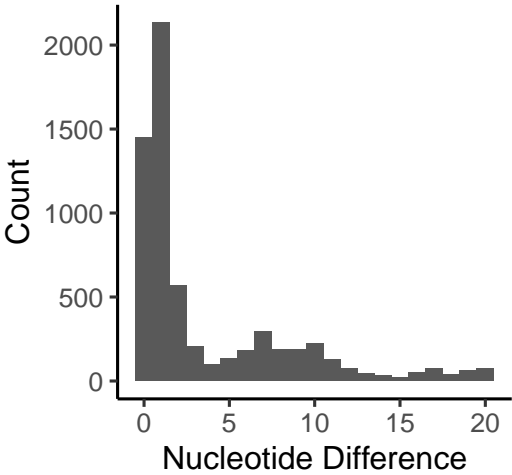
IGHV2-70*04

612 sequences assigned
66 (10.8%) exact matches, in which:
43 unique CDR3
6 unique J



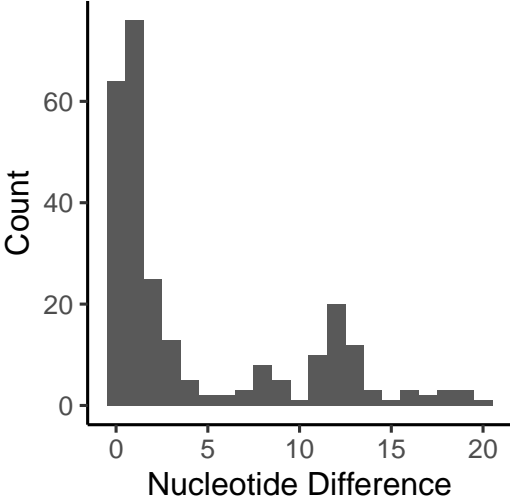
IGHV1-69*06_14

6589 sequences assigned
1449 (22%) exact matches, in which:
1107 unique CDR3
7 unique J



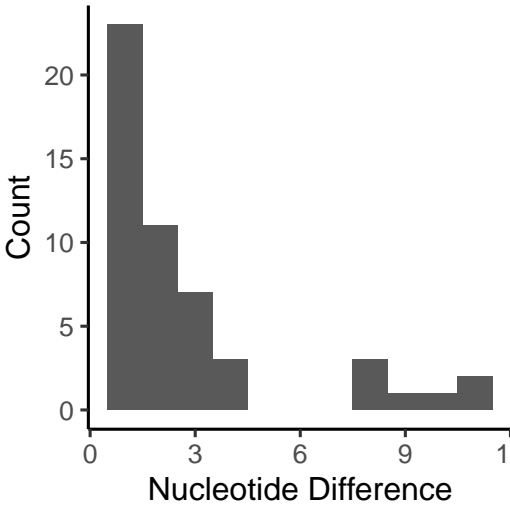
IGHV2-26*01

264 sequences assigned
64 (24.2%) exact matches, in which:
47 unique CDR3
6 unique J



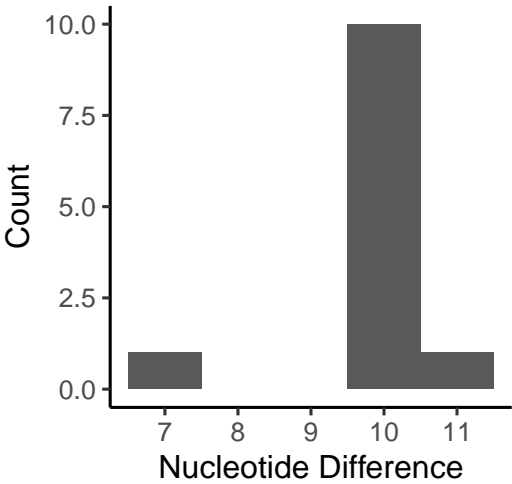
IGHV2-70*12

53 sequences assigned
No exact matches.



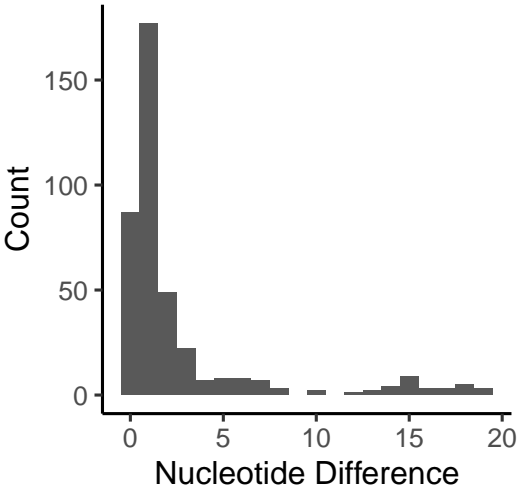
IGHV1-NL1*01

12 sequences assigned
No exact matches.



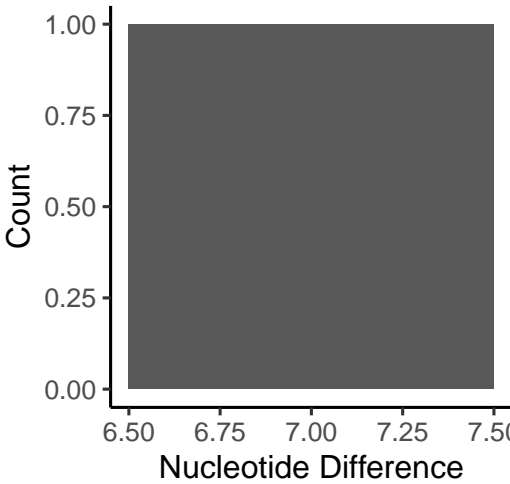
IGHV2-70*01

414 sequences assigned
87 (21%) exact matches, in which:
49 unique CDR3
5 unique J



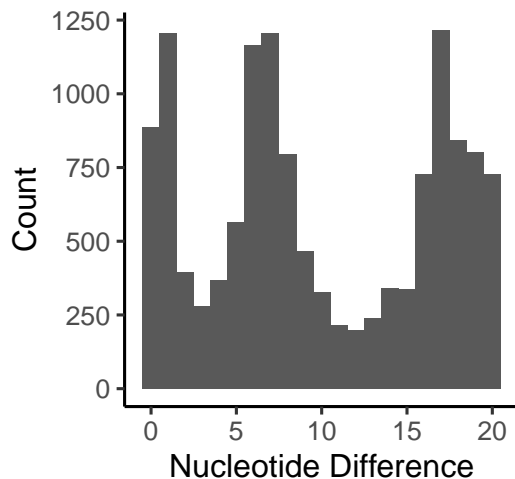
IGHV2-70D*14

1 sequences assigned
No exact matches.



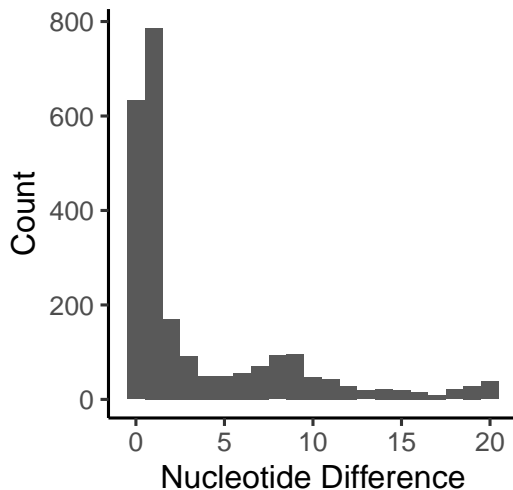
IGHV3-7*01

17193 sequences assigned
888 (5.2%) exact matches, in which:
580 unique CDR3
7 unique J



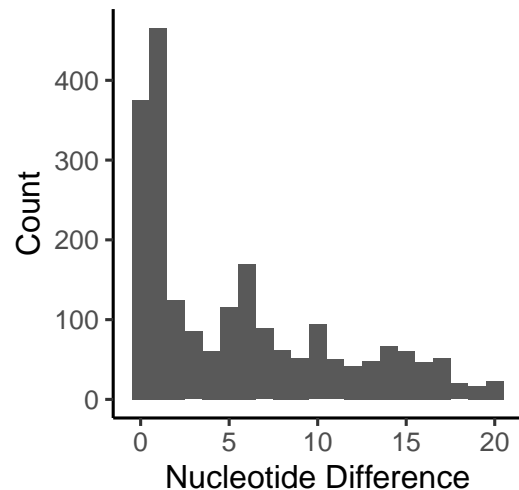
IGHV3-11*01

3623 sequences assigned
633 (17.5%) exact matches, in which:
411 unique CDR3
7 unique J



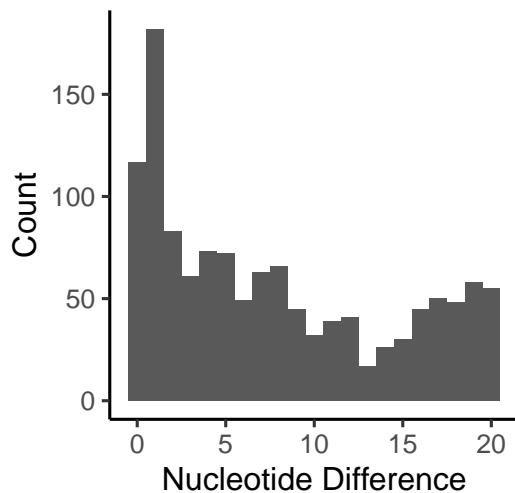
IGHV3-15*01_02

2598 sequences assigned
375 (14.4%) exact matches, in which:
203 unique CDR3
7 unique J



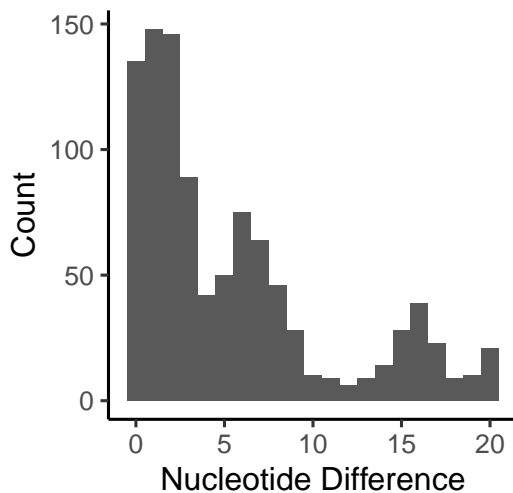
IGHV3-7*03

2391 sequences assigned
117 (4.9%) exact matches, in which:
86 unique CDR3
5 unique J



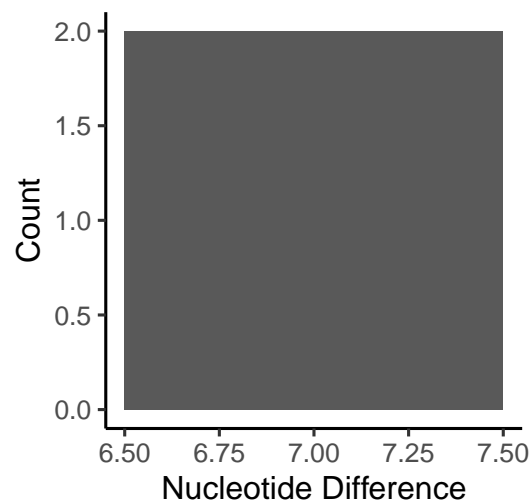
IGHV3-11*04

1105 sequences assigned
135 (12.2%) exact matches, in which:
108 unique CDR3
6 unique J



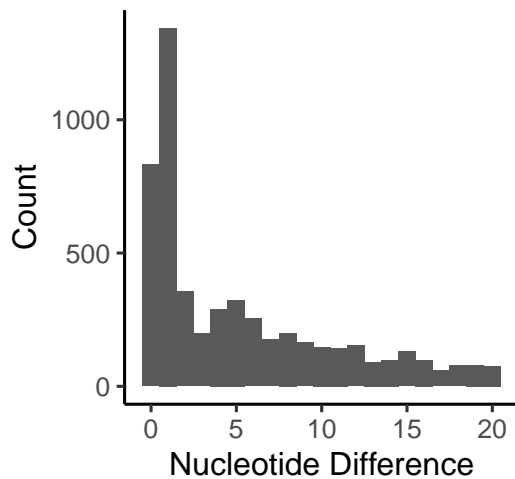
IGHV3-19*01

2 sequences assigned
No exact matches.



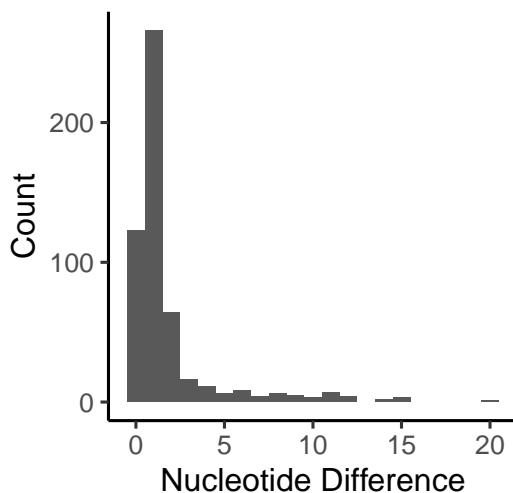
IGHV3-9*01

19420 sequences assigned
832 (4.3%) exact matches, in which:
454 unique CDR3
7 unique J



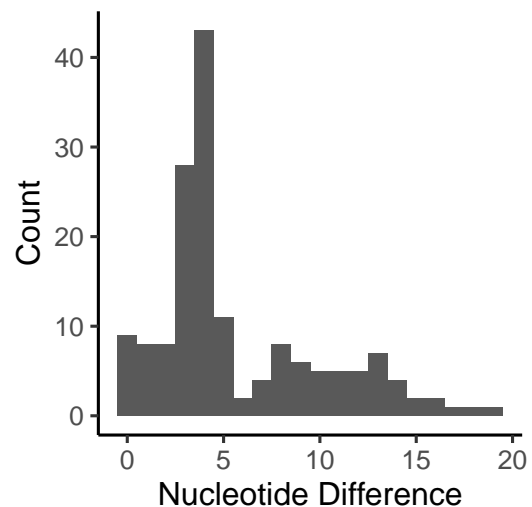
IGHV3-13*01

544 sequences assigned
123 (22.6%) exact matches, in which:
65 unique CDR3
7 unique J



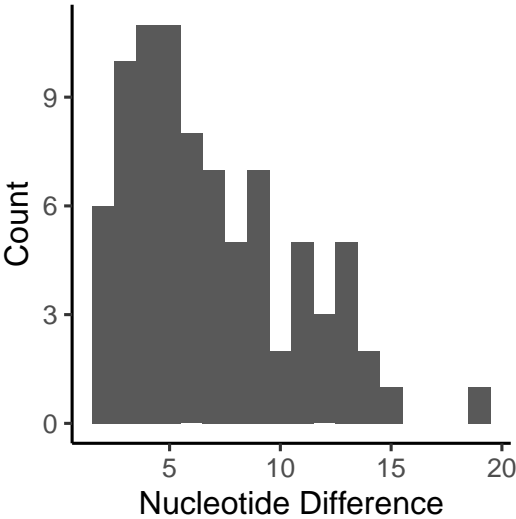
IGHV3-20*01_02

171 sequences assigned
9 (5.3%) exact matches, in which:
7 unique CDR3
2 unique J



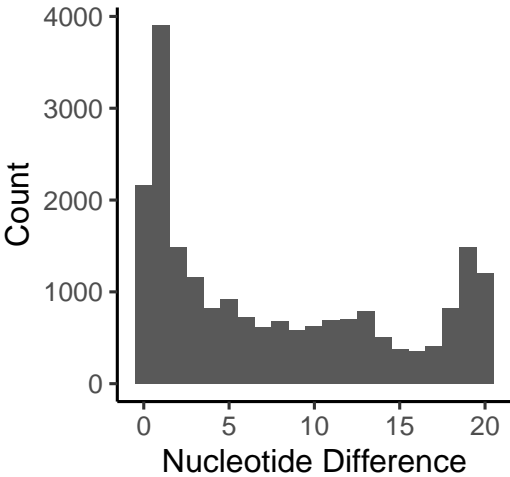
IGHV3-20*03_04

163 sequences assigned
No exact matches.



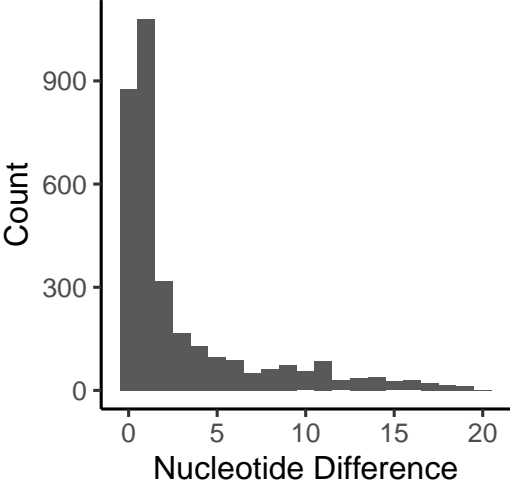
IGHV3-23*01_04

29567 sequences assigned
2158 (7.3%) exact matches, in which:
1199 unique CDR3
7 unique J



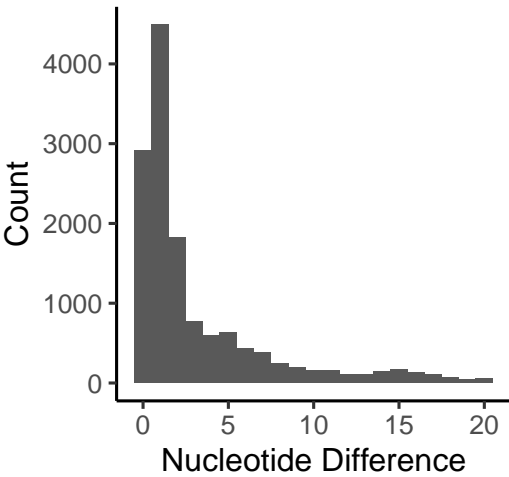
IGHV3-30*03

3477 sequences assigned
876 (25.2%) exact matches, in which:
561 unique CDR3
7 unique J



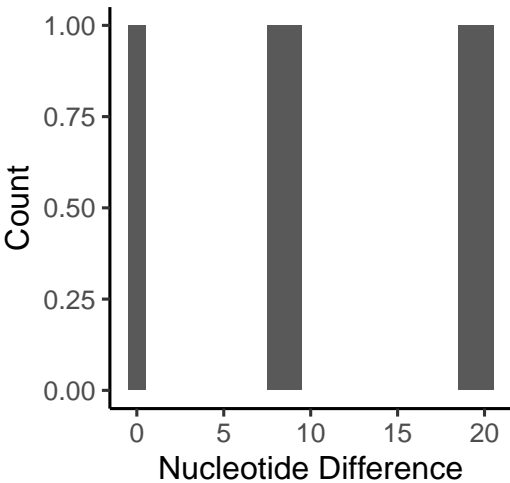
IGHV3-21*01_02

14532 sequences assigned
2911 (20%) exact matches, in which:
1607 unique CDR3
7 unique J



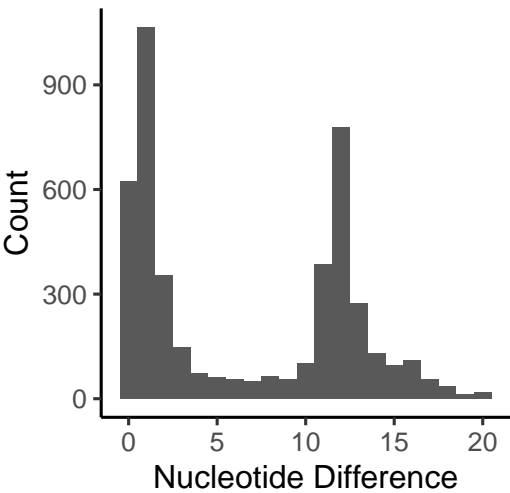
IGHV3-30-3*01

14 sequences assigned
1 (7.1%) exact matches, in which:
1 unique CDR3
0 unique J



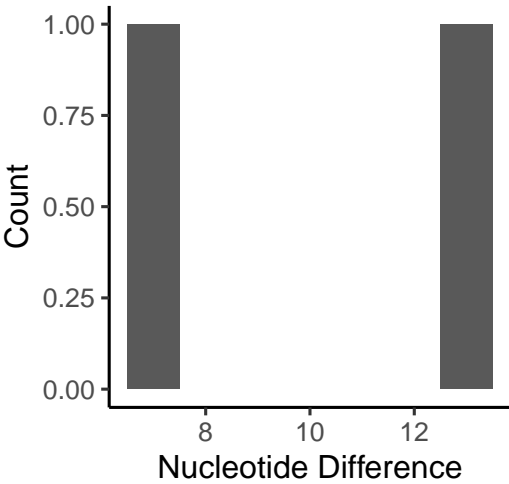
IGHV3-30*18

4869 sequences assigned
624 (12.8%) exact matches, in which:
354 unique CDR3
6 unique J



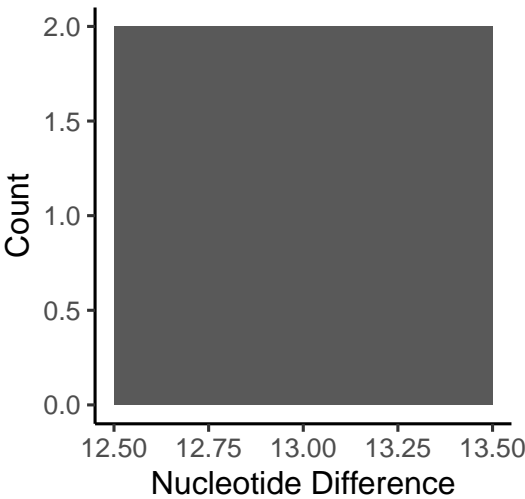
IGHV3-22*01_02

2 sequences assigned
No exact matches.



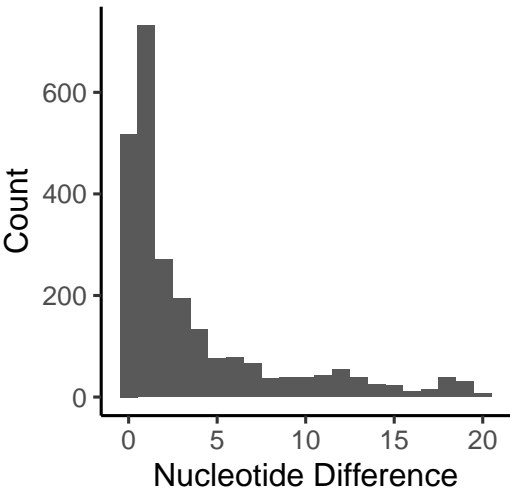
IGHV3-30-3*02

11 sequences assigned
No exact matches.



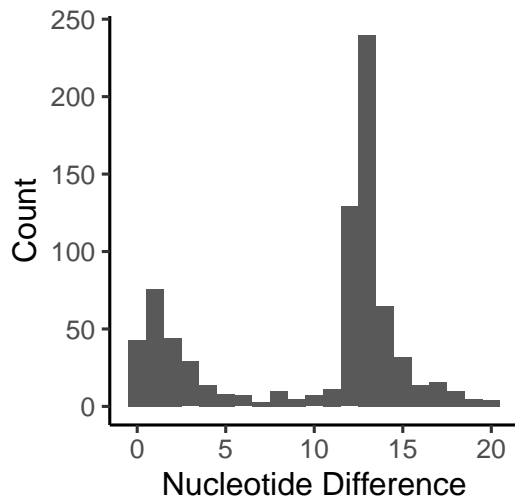
IGHV3-33*01

3310 sequences assigned
518 (15.6%) exact matches, in which:
329 unique CDR3
7 unique J



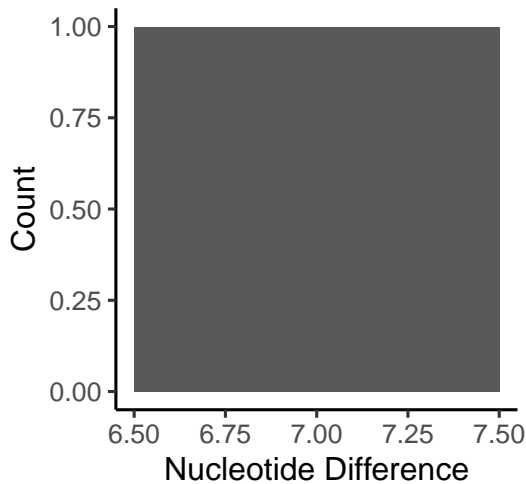
IGHV3–33*06

794 sequences assigned
43 (5.4%) exact matches, in which:
35 unique CDR3
7 unique J



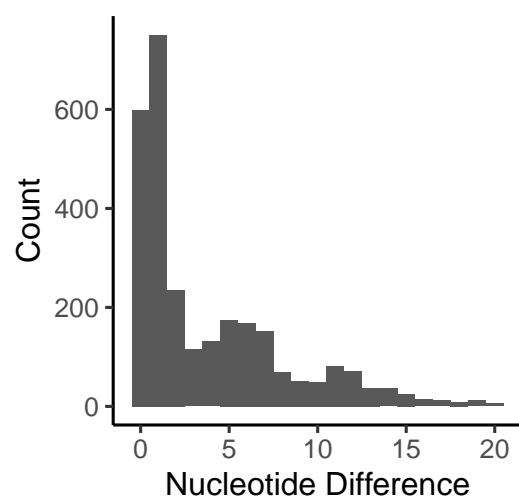
IGHV3–38*03

1 sequences assigned
No exact matches.



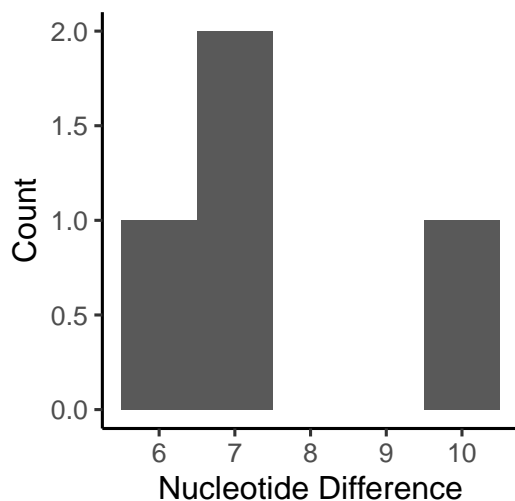
IGHV3–48*01

2907 sequences assigned
599 (20.6%) exact matches, in which:
352 unique CDR3
7 unique J



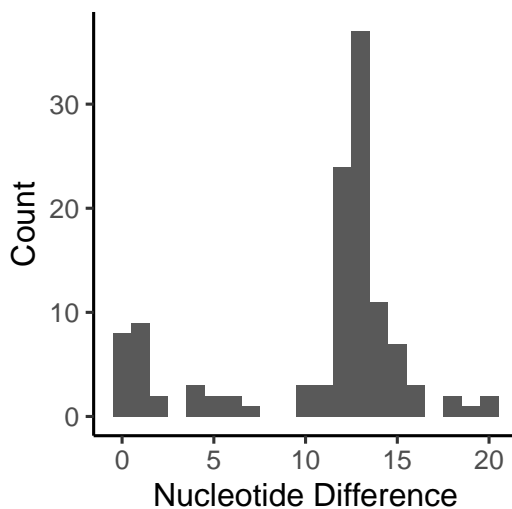
IGHV3–35*01

4 sequences assigned
No exact matches.



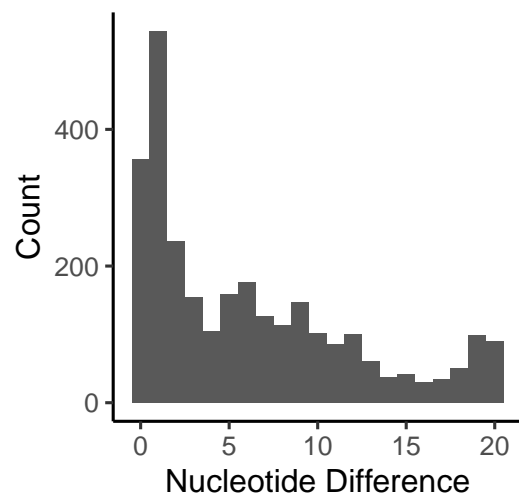
IGHV3–43*01

1606 sequences assigned
8 (0.5%) exact matches, in which:
5 unique CDR3
2 unique J



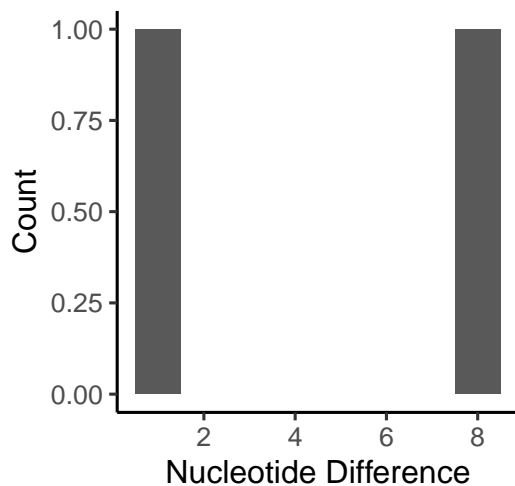
IGHV3–48*03

4193 sequences assigned
356 (8.5%) exact matches, in which:
198 unique CDR3
7 unique J



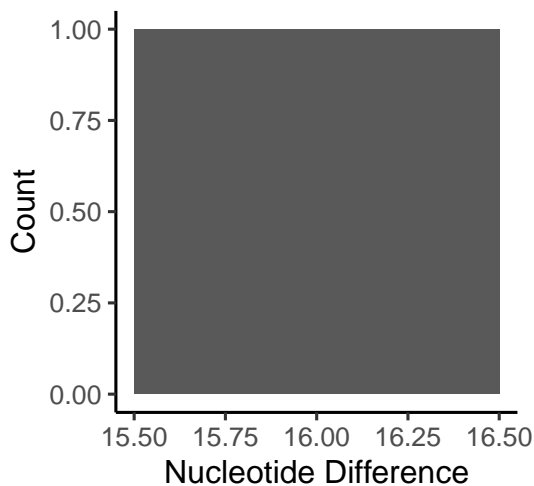
IGHV3–38–3*01

2 sequences assigned
No exact matches.



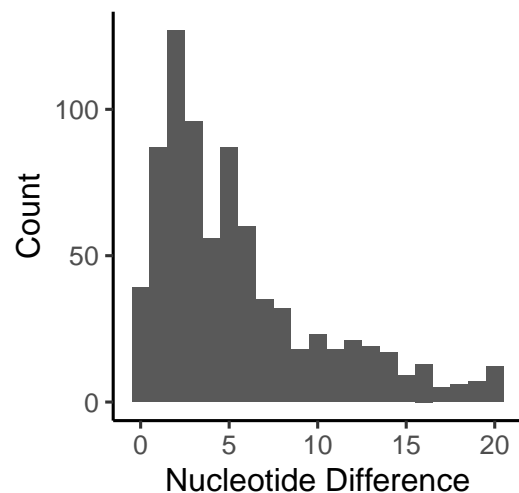
IGHV3–47*02

1 sequences assigned
No exact matches.



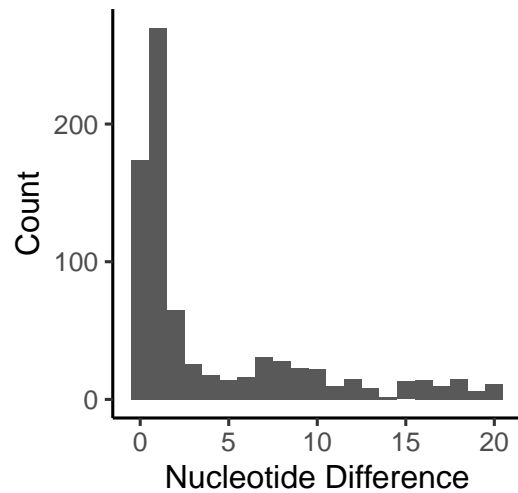
IGHV3–48*04

888 sequences assigned
39 (4.4%) exact matches, in which:
32 unique CDR3
6 unique J



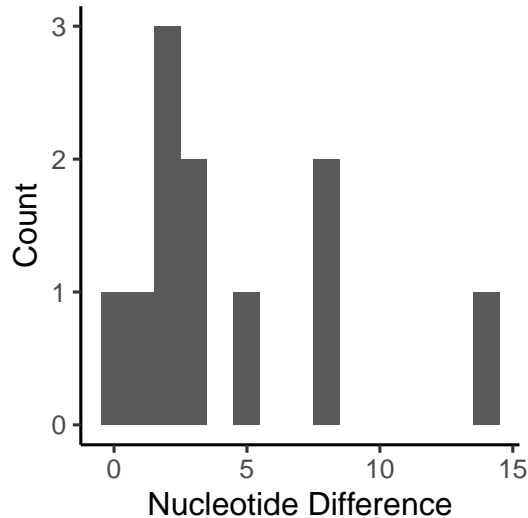
IGHV3-49*04

878 sequences assigned
174 (19.8%) exact matches, in which:
93 unique CDR3
6 unique J



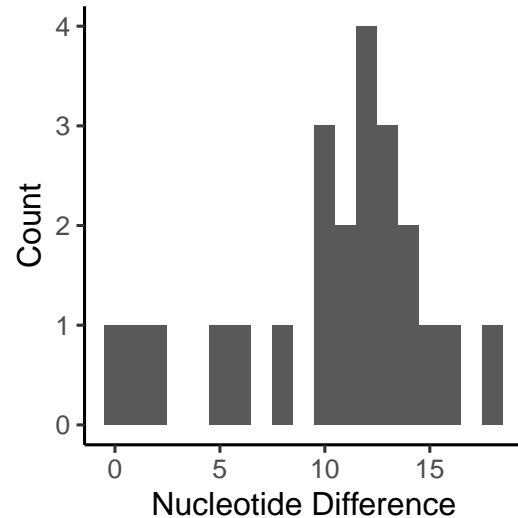
IGHV3-53*05

18 sequences assigned
1 (5.6%) exact matches, in which:
1 unique CDR3
1 unique J



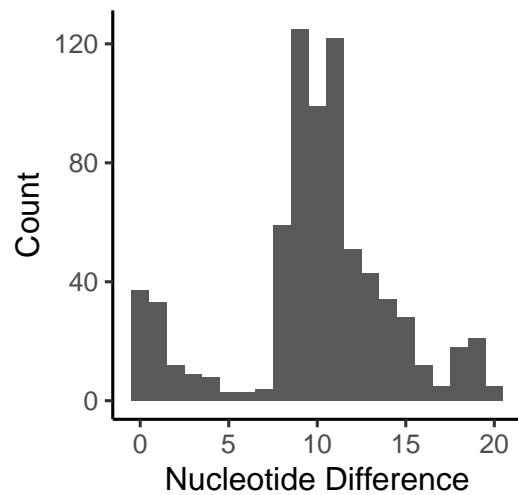
IGHV3-66*01

24 sequences assigned
1 (4.2%) exact matches, in which:
1 unique CDR3
0 unique J



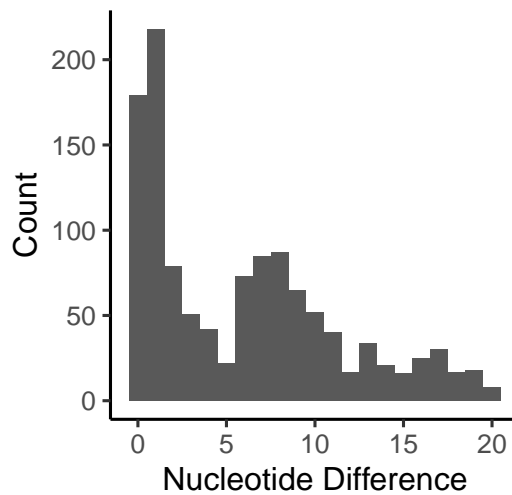
IGHV3-49*03_05

894 sequences assigned
37 (4.1%) exact matches, in which:
26 unique CDR3
6 unique J



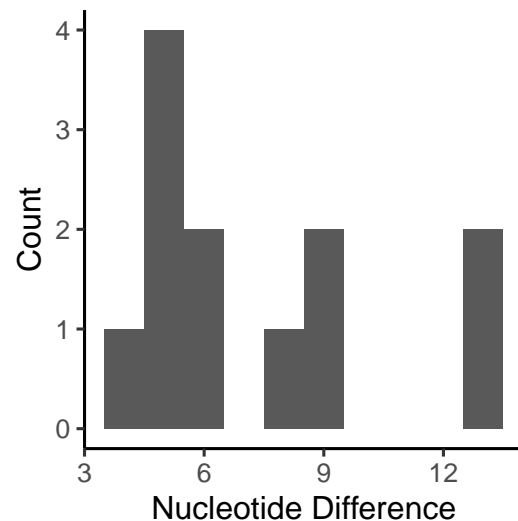
IGHV3-53*01_02

1492 sequences assigned
179 (12%) exact matches, in which:
124 unique CDR3
7 unique J



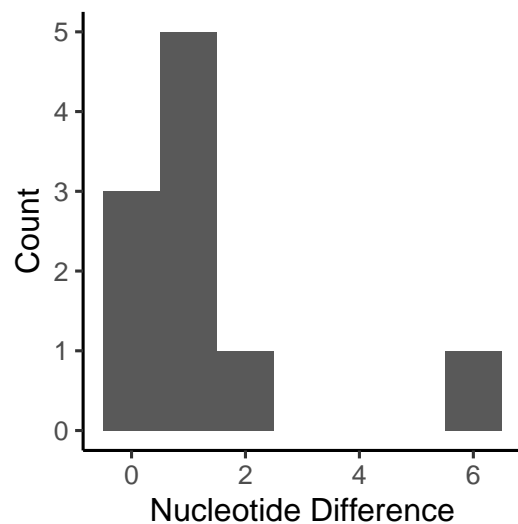
IGHV3-66*02

12 sequences assigned
No exact matches.



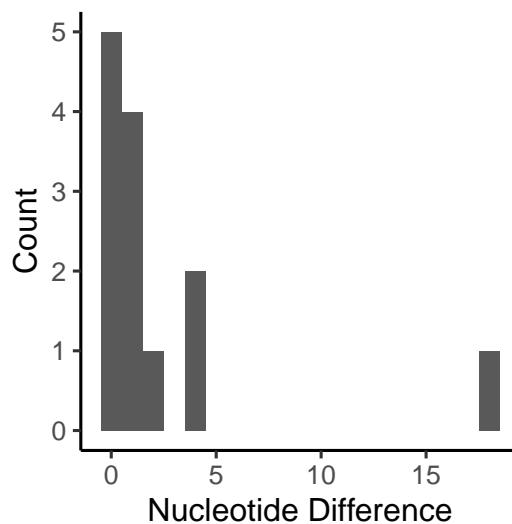
IGHV3-52*01_03

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



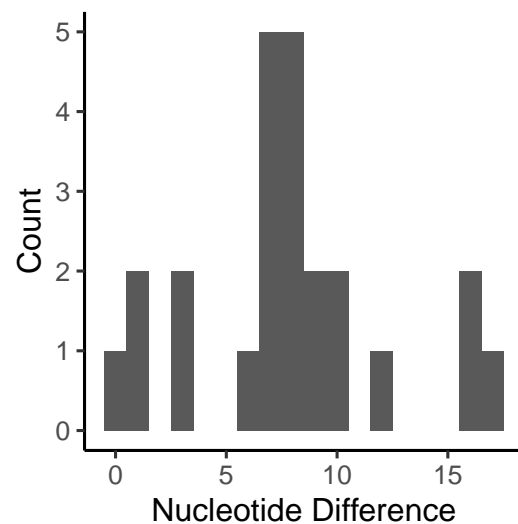
IGHV3-64*02_07

13 sequences assigned
5 (38.5%) exact matches, in which:
4 unique CDR3
1 unique J



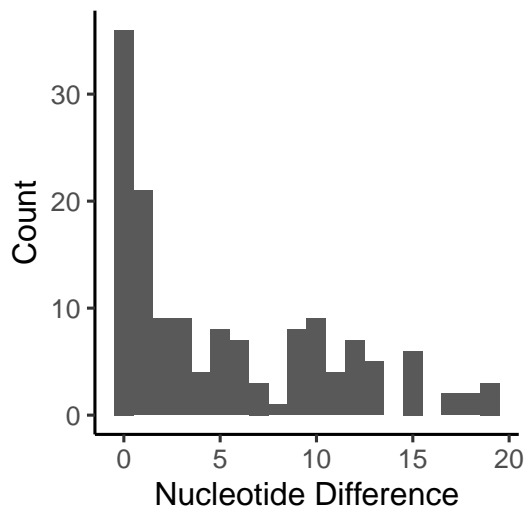
IGHV3-66*03

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



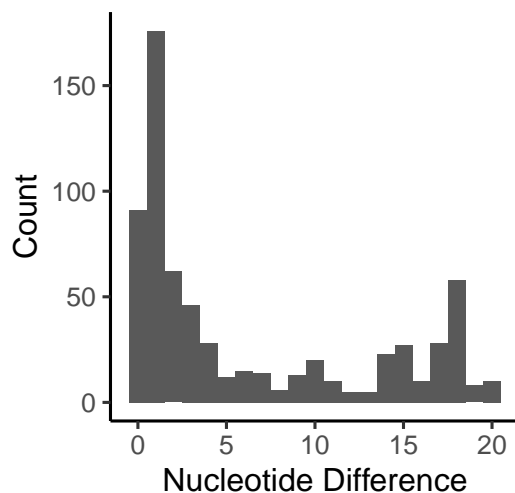
IGHV3-69-1*01

148 sequences assigned
36 (24.3%) exact matches, in which:
32 unique CDR3
6 unique J



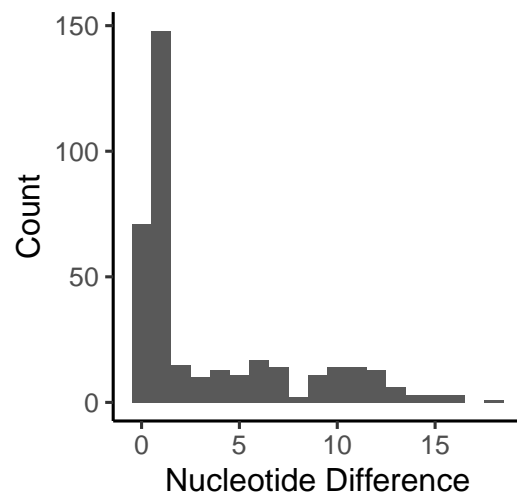
IGHV3-73*01_02

2292 sequences assigned
91 (4%) exact matches, in which:
47 unique CDR3
4 unique J



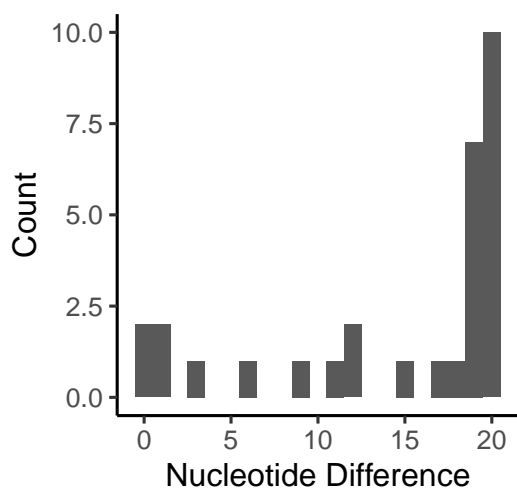
IGHV3-43D*03

379 sequences assigned
71 (18.7%) exact matches, in which:
47 unique CDR3
4 unique J



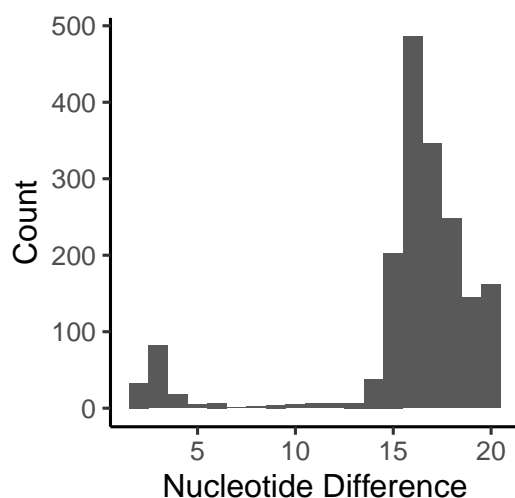
IGHV3-69-1*02

47 sequences assigned
2 (4.3%) exact matches, in which:
2 unique CDR3
2 unique J



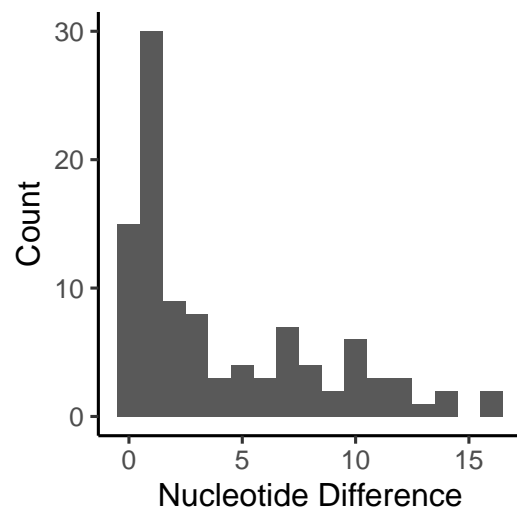
IGHV3-74*03

5142 sequences assigned
No exact matches.



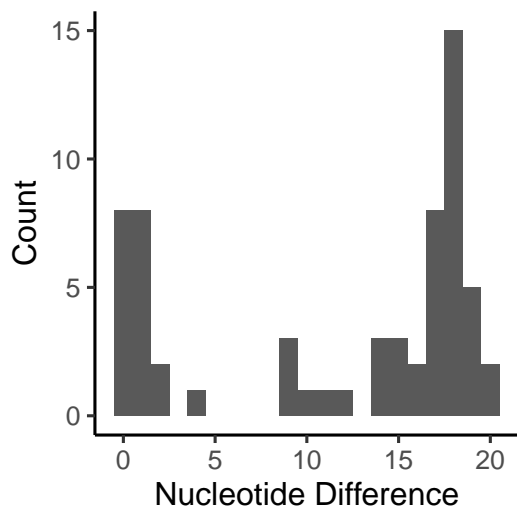
IGHV3-43D*04

105 sequences assigned
15 (14.3%) exact matches, in which:
10 unique CDR3
2 unique J



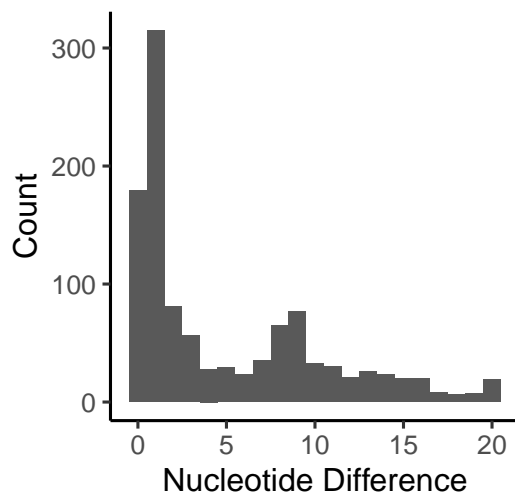
IGHV3-72*01

221 sequences assigned
8 (3.6%) exact matches, in which:
5 unique CDR3
4 unique J



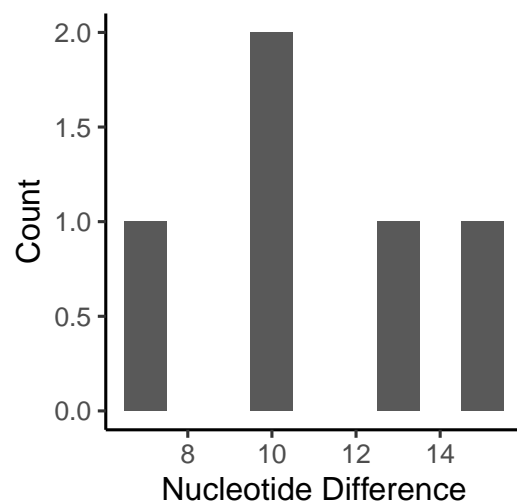
IGHV3-74*01_02

1307 sequences assigned
179 (13.7%) exact matches, in which:
101 unique CDR3
7 unique J



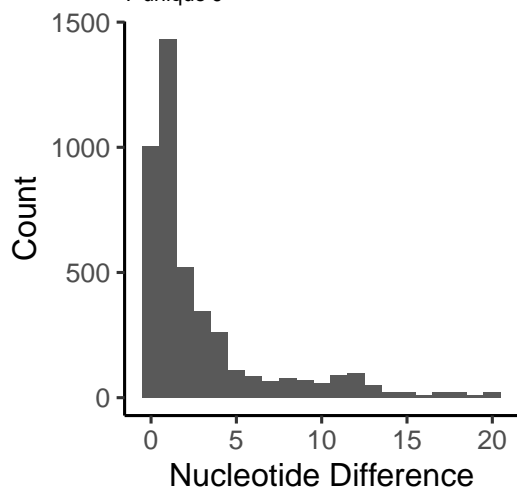
IGHV3-NL1*01

32 sequences assigned
No exact matches.



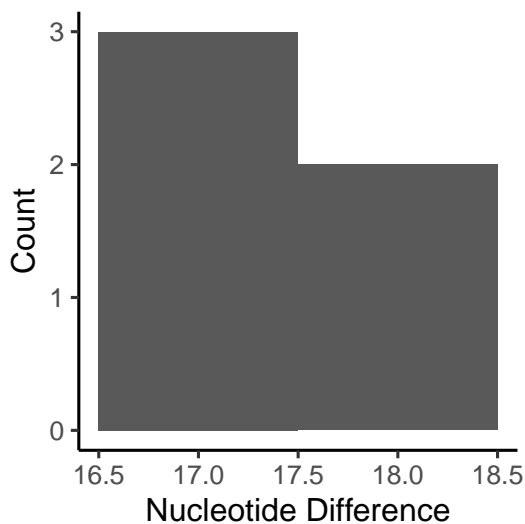
IGHV4-4*02_03

4687 sequences assigned
1006 (21.5%) exact matches, in which:
676 unique CDR3
7 unique J



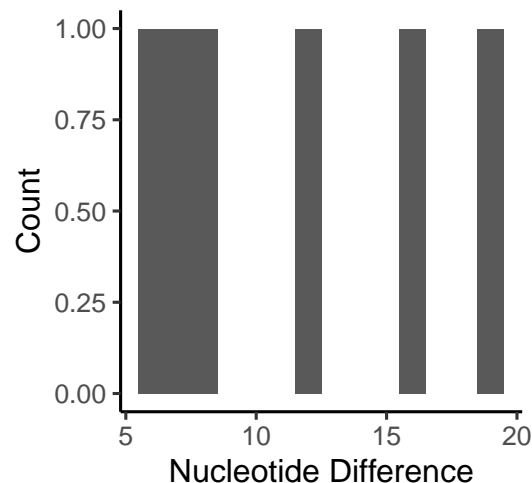
IGHV4-30-2*01

7 sequences assigned
No exact matches.



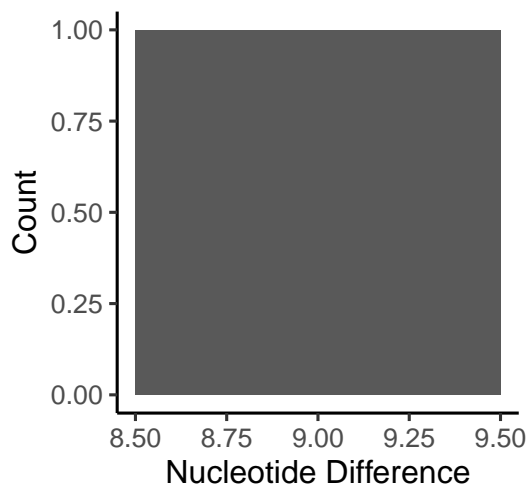
IGHV4-30-4*08

26 sequences assigned
No exact matches.



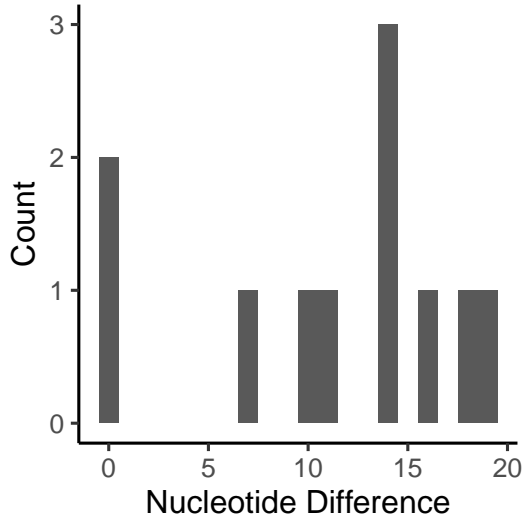
IGHV4-28*03

6 sequences assigned
No exact matches.



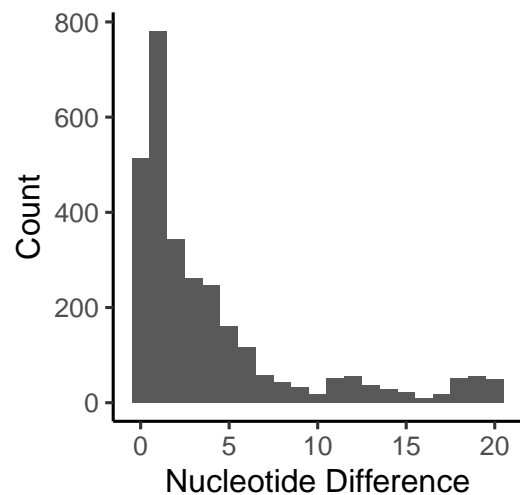
IGHV4-30-4*01

353 sequences assigned
2 (0.6%) exact matches, in which:
2 unique CDR3
1 unique J



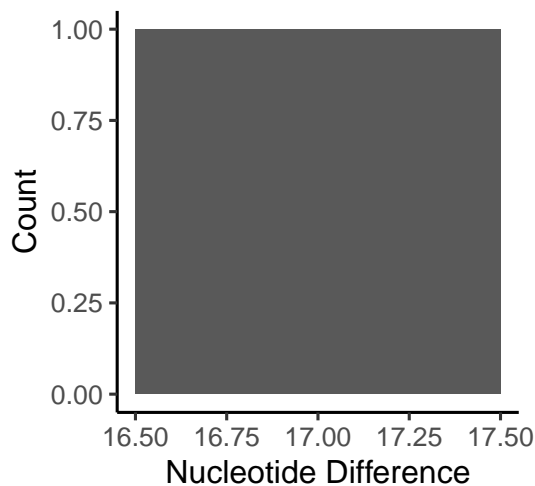
IGHV4-31*02

18657 sequences assigned
514 (2.8%) exact matches, in which:
383 unique CDR3
7 unique J



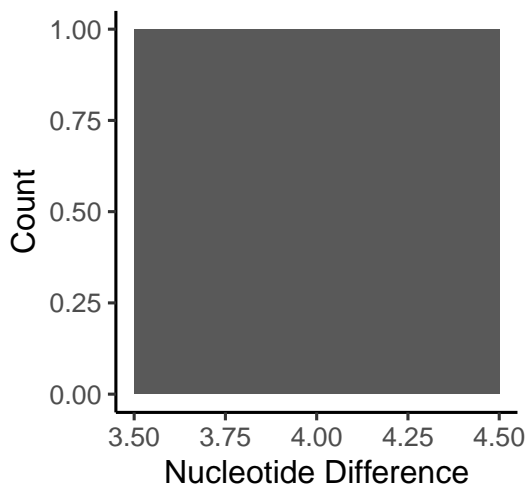
IGHV4-28*01_07

1 sequences assigned
No exact matches.



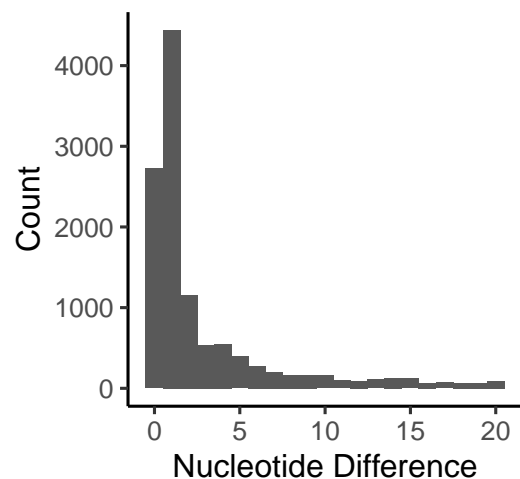
IGHV4-30-2*04

3 sequences assigned
No exact matches.



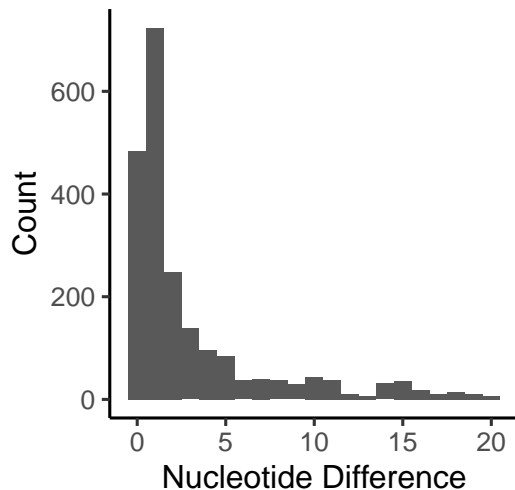
IGHV4-34*01_02

14939 sequences assigned
2726 (18.2%) exact matches, in which:
1696 unique CDR3
7 unique J



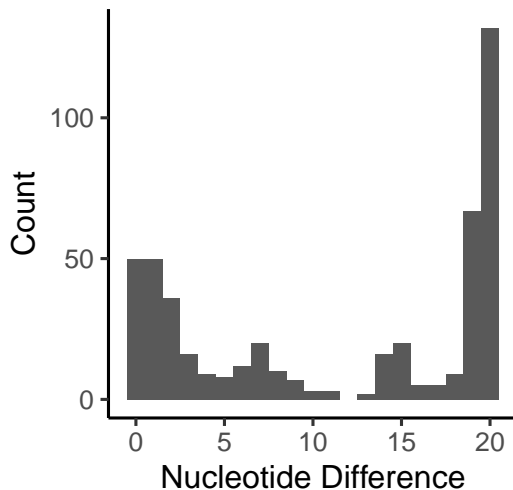
IGHV4-38-2*02

2968 sequences assigned
484 (16.3%) exact matches, in which:
369 unique CDR3
7 unique J



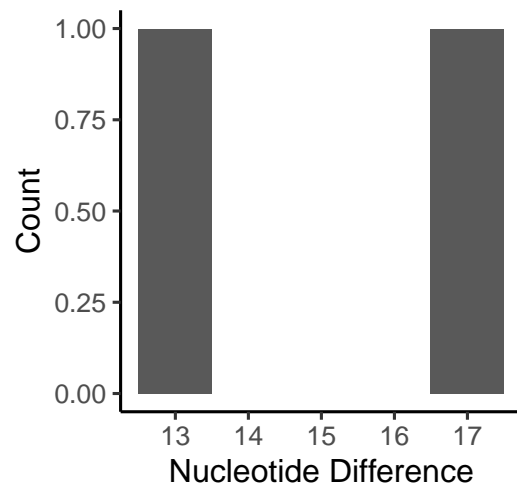
IGHV4-59*08

643 sequences assigned
50 (7.8%) exact matches, in which:
44 unique CDR3
7 unique J



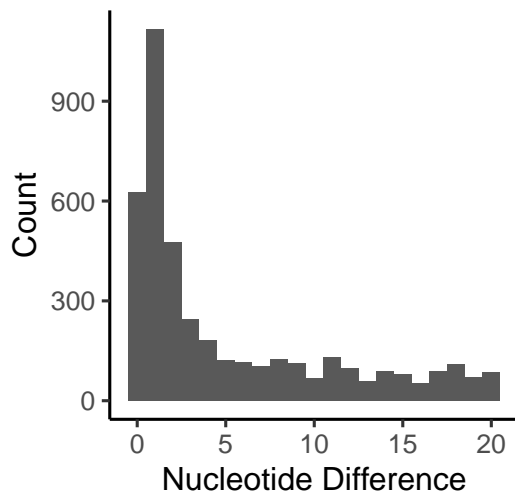
IGHV1/OR15-2*02_03

5 sequences assigned
No exact matches.



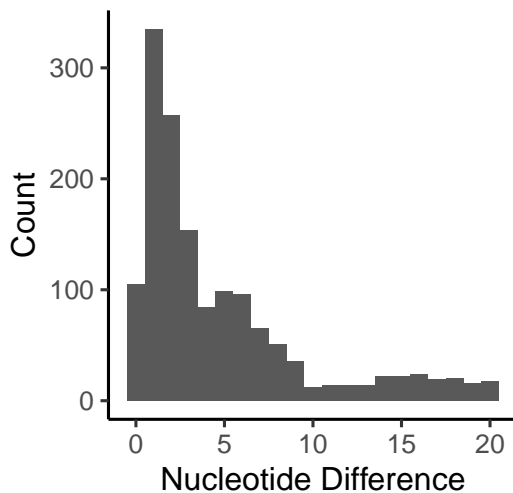
IGHV4-39*07

4814 sequences assigned
627 (13%) exact matches, in which:
461 unique CDR3
7 unique J



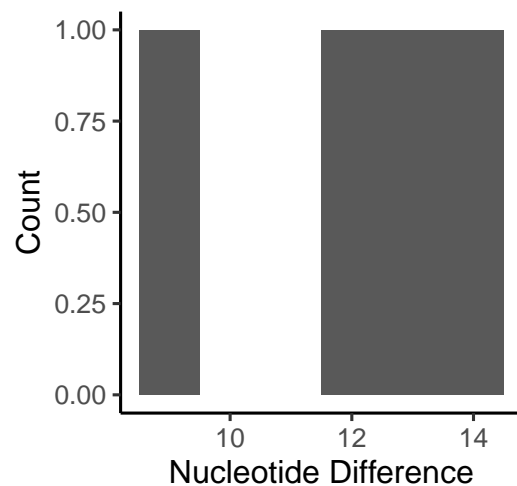
IGHV4-59*12

4653 sequences assigned
105 (2.3%) exact matches, in which:
102 unique CDR3
7 unique J



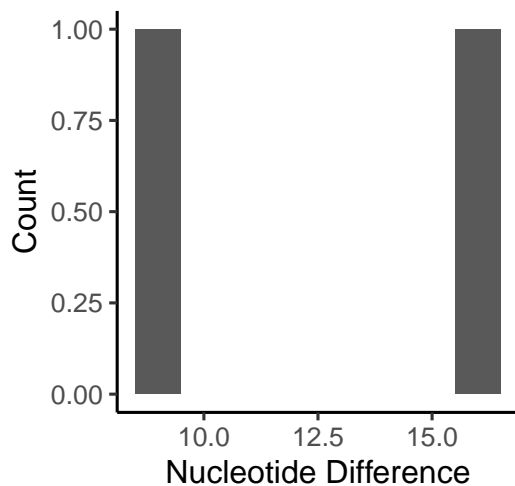
IGHV1/OR15-3*02

4 sequences assigned
No exact matches.



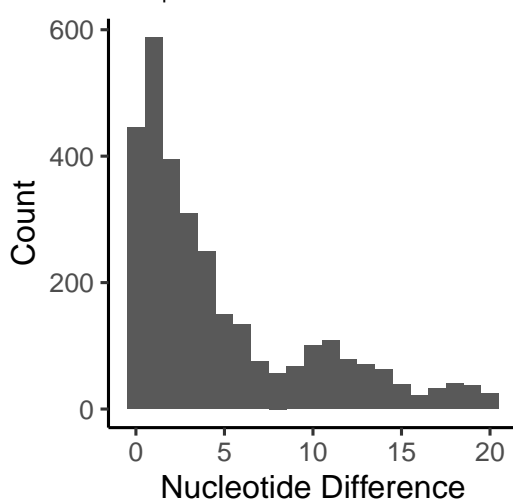
IGHV4-55*09

2 sequences assigned
No exact matches.



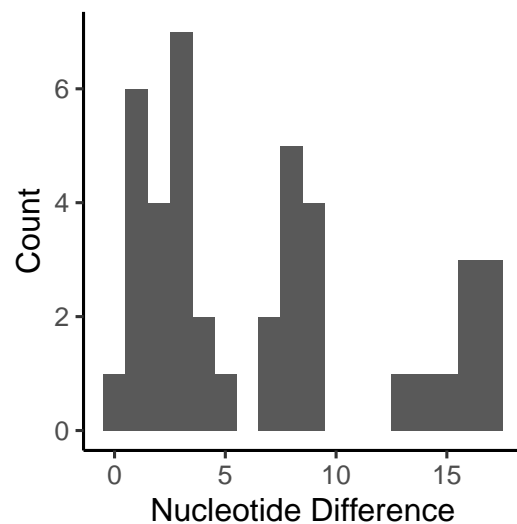
IGHV4-61*01

3298 sequences assigned
446 (13.5%) exact matches, in which:
349 unique CDR3
6 unique J



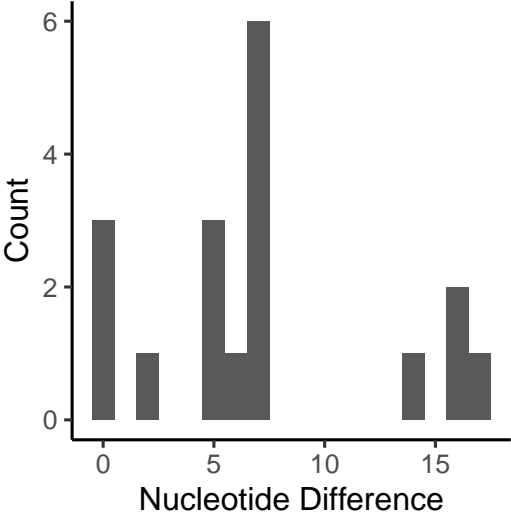
IGHV4/OR15-8*01

81 sequences assigned
1 (1.2%) exact matches, in which:
1 unique CDR3
1 unique J



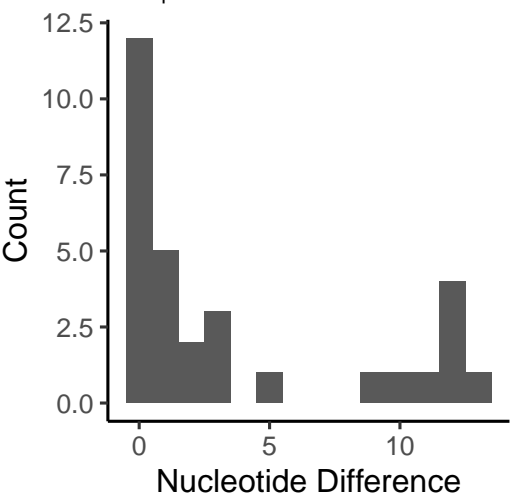
IGHV5-10-1*01_03

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



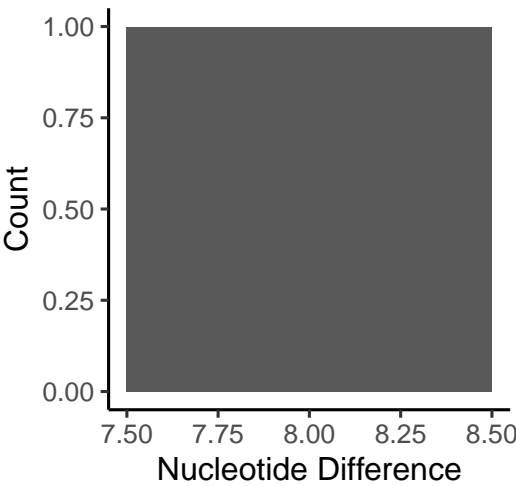
IGHV5-51*07

31 sequences assigned
12 (38.7%) exact matches, in which:
11 unique CDR3
5 unique J



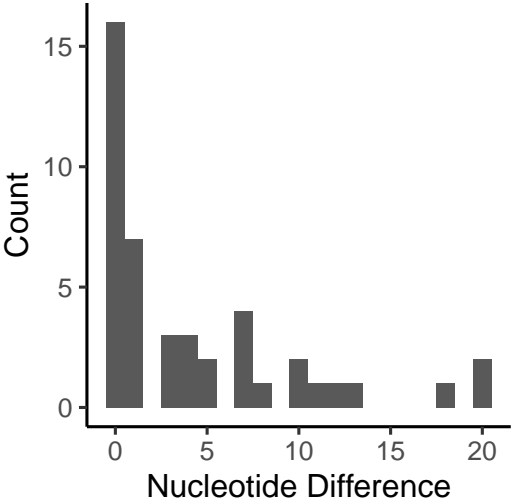
IGHV7-40*03

1 sequences assigned
No exact matches.



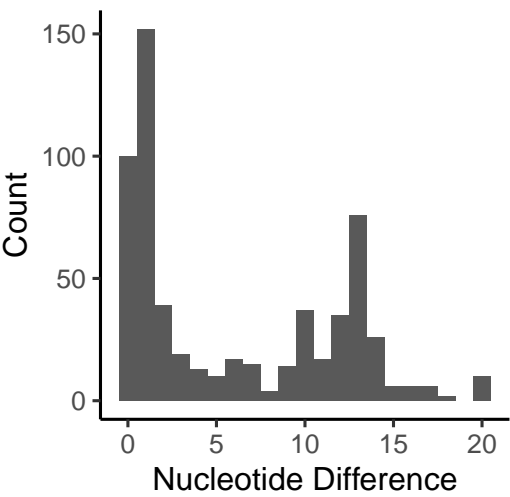
IGHV5-51*04

46 sequences assigned
16 (34.8%) exact matches, in which:
16 unique CDR3
5 unique J



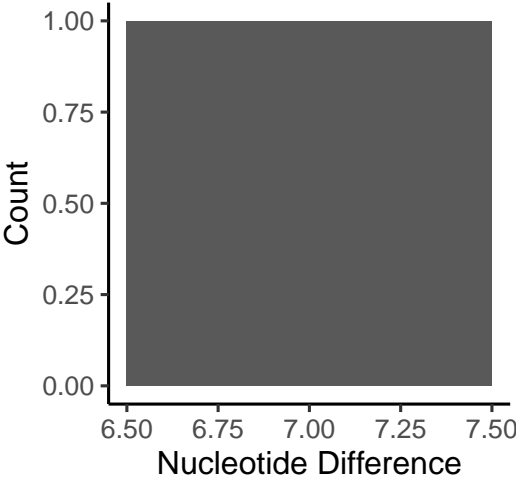
IGHV6-1*01_02

689 sequences assigned
100 (14.5%) exact matches, in which:
77 unique CDR3
5 unique J



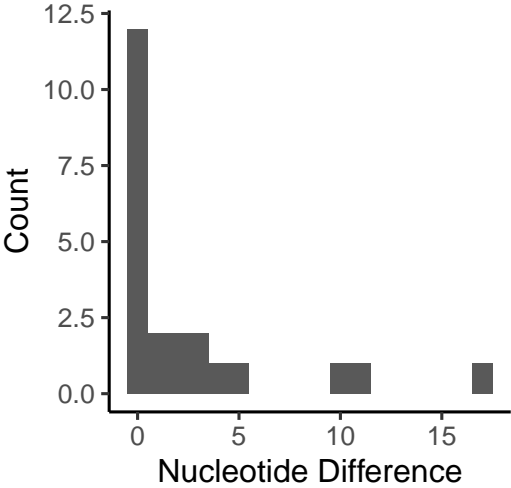
IGHV7-81*01

1 sequences assigned
No exact matches.



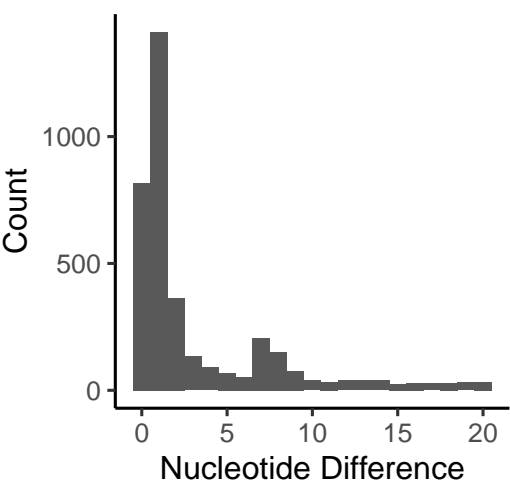
IGHV5-51*06

23 sequences assigned
12 (52.2%) exact matches, in which:
12 unique CDR3
4 unique J

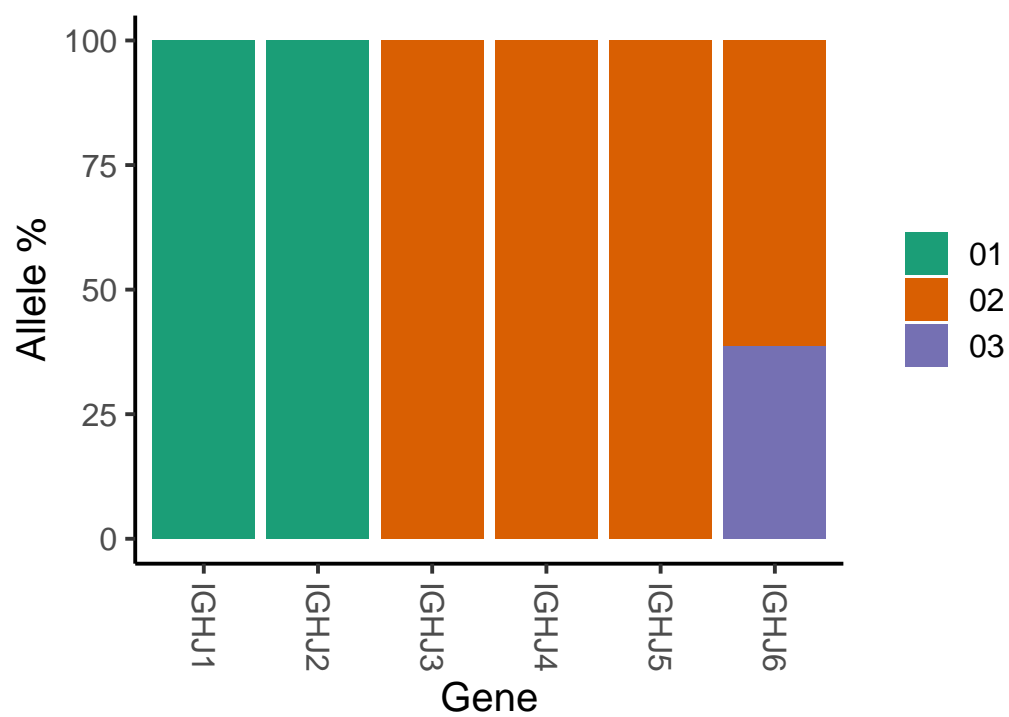


IGHV7-4-1*02

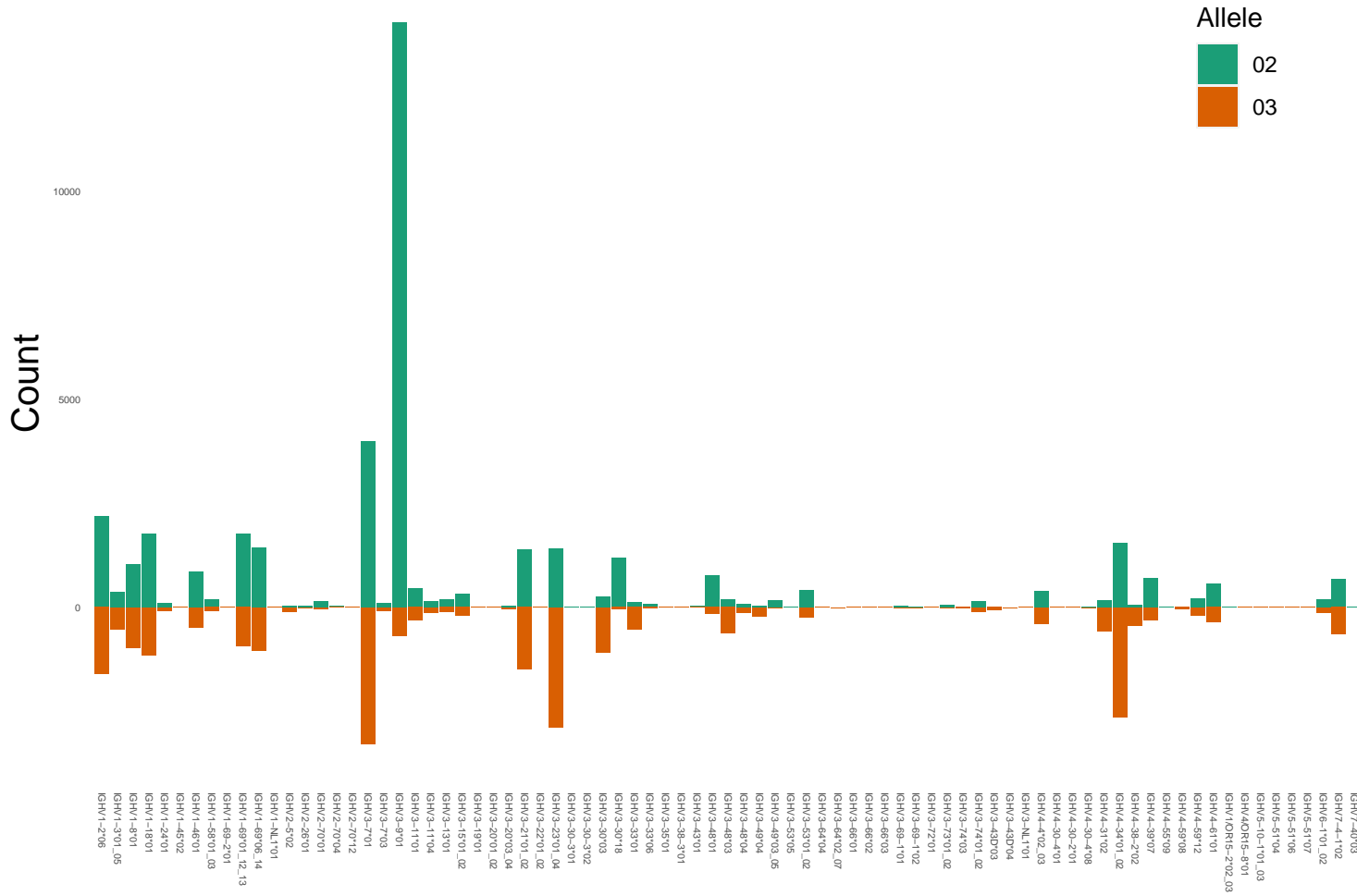
4713 sequences assigned
816 (17.3%) exact matches, in which:
579 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.