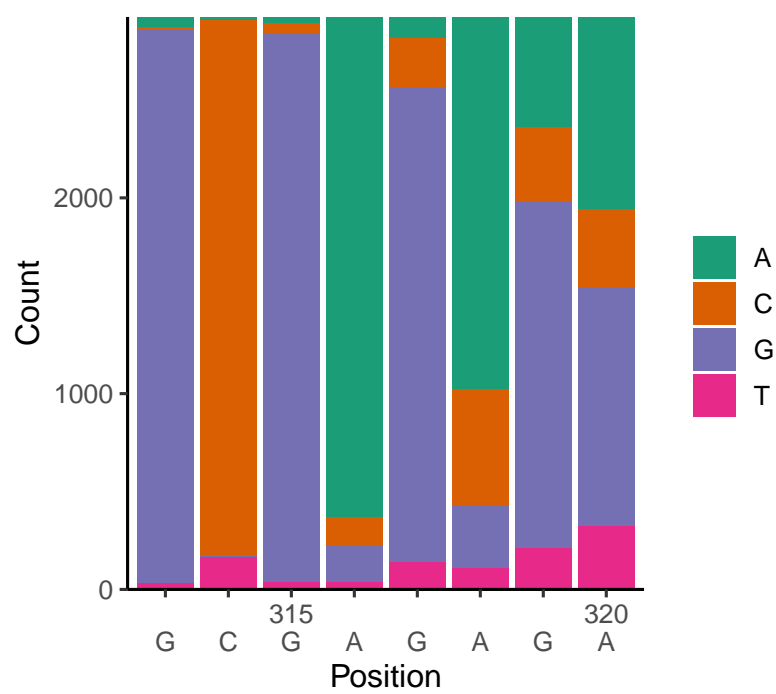
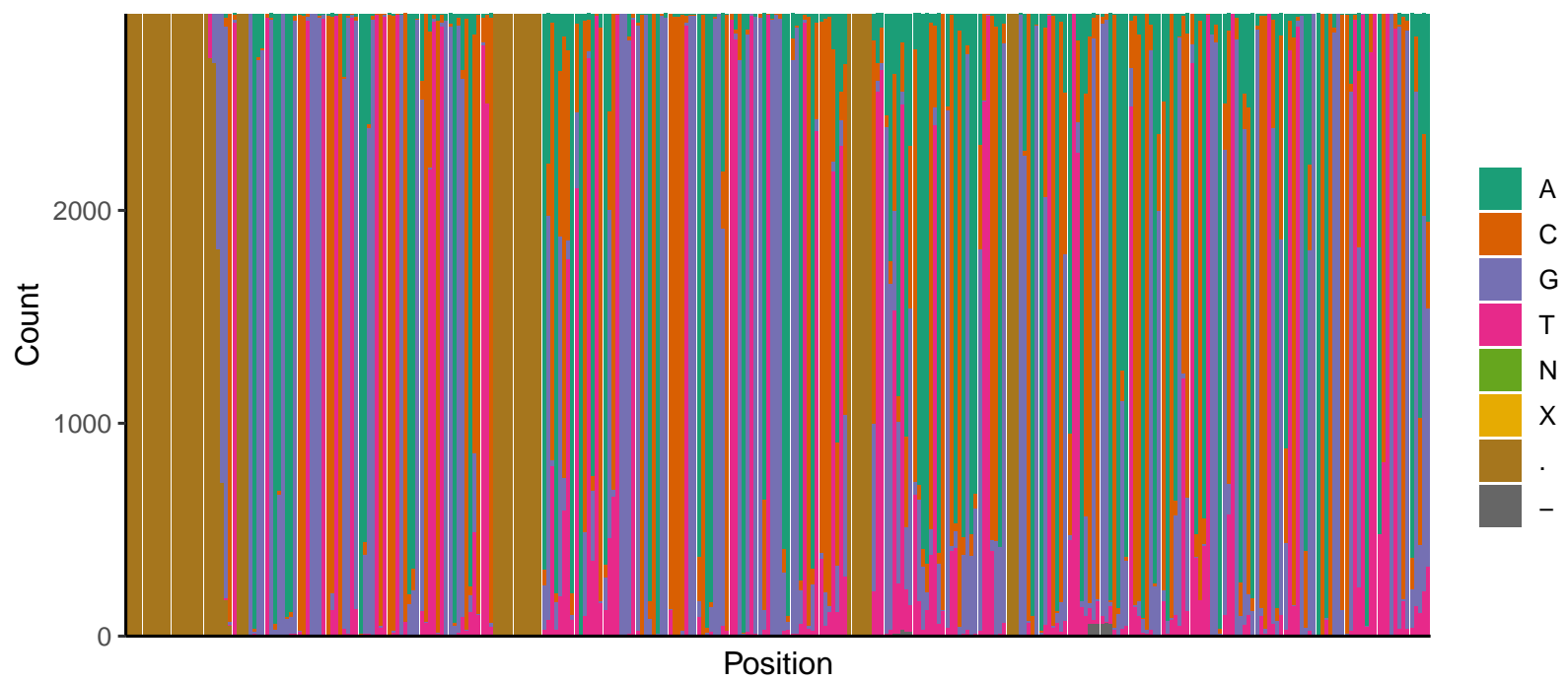


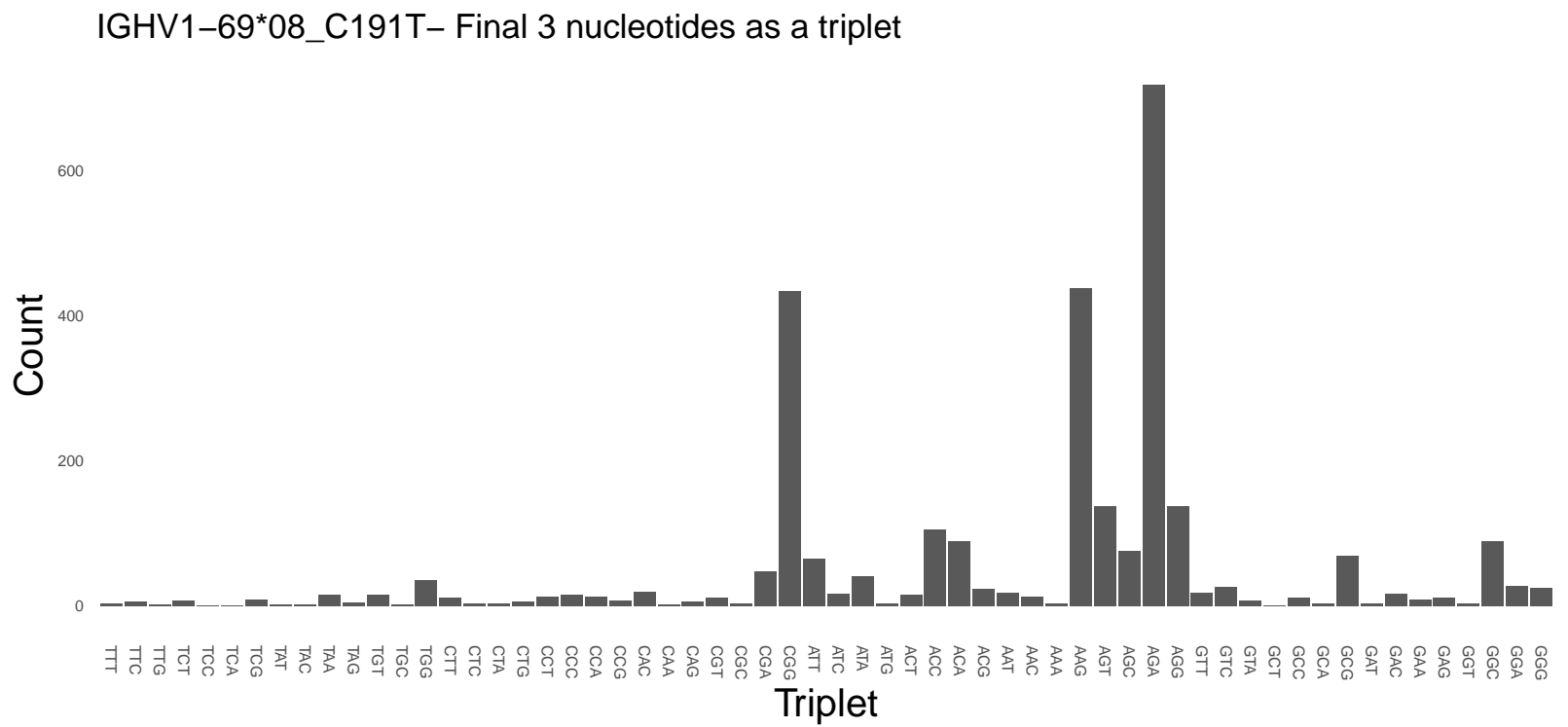
Gene IGHV1-69*08_C191T



Gene IGHV1-69*08_C191T

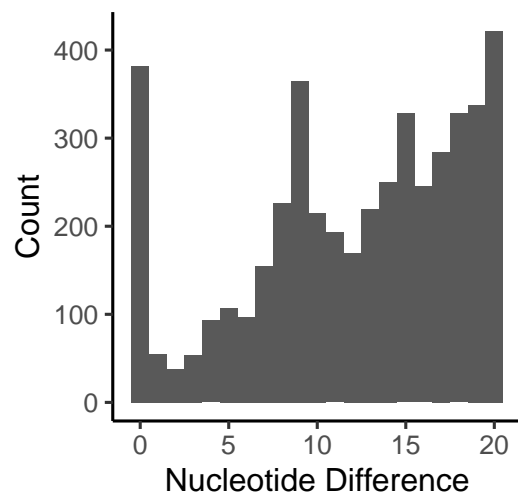


IGHV1-69*08_C191T- Final 3 nucleotides as a triplet



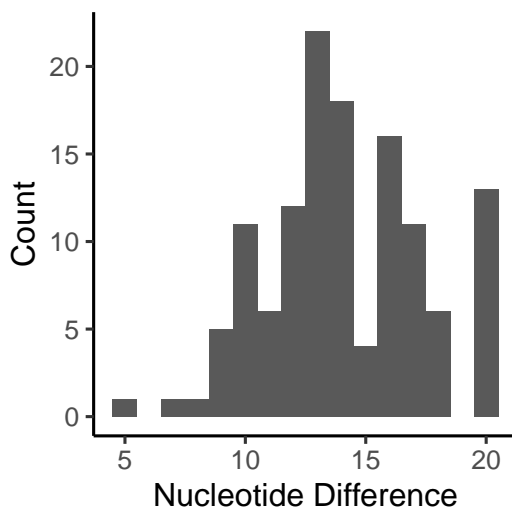
IGHV1-2*02

6876 sequences assigned
382 (5.6%) exact matches, in which:
353 unique CDR3
6 unique J



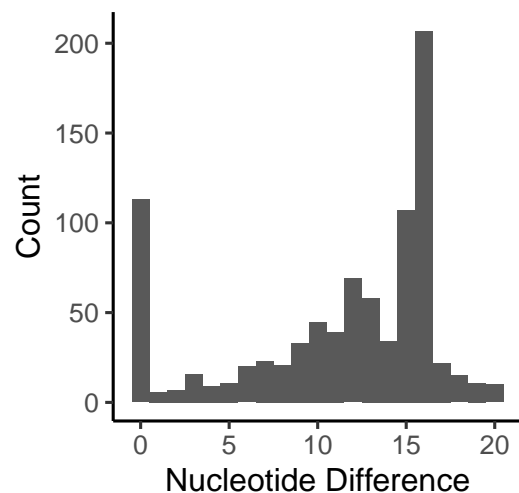
IGHV1-3*04

185 sequences assigned
No exact matches.



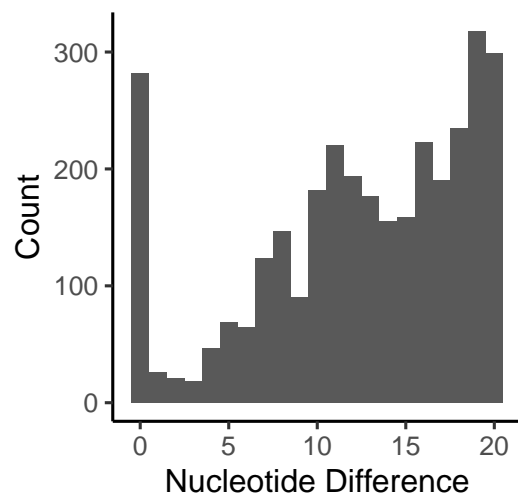
IGHV1-24*01

980 sequences assigned
113 (11.5%) exact matches, in which:
109 unique CDR3
6 unique J



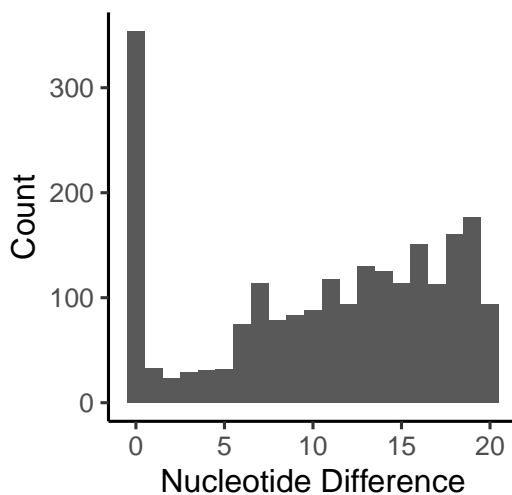
IGHV1-2*06

5367 sequences assigned
282 (5.3%) exact matches, in which:
267 unique CDR3
6 unique J



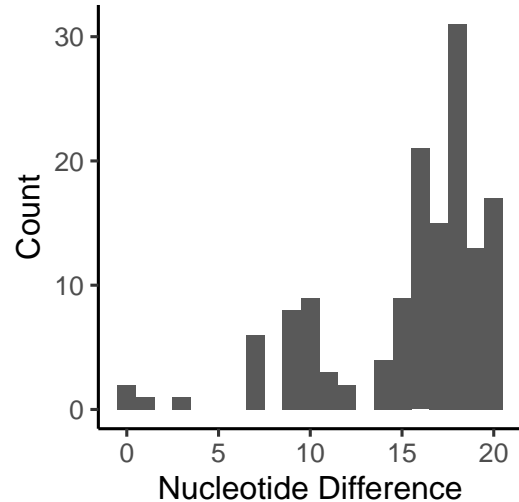
IGHV1-8*01

3324 sequences assigned
354 (10.6%) exact matches, in which:
332 unique CDR3
7 unique J



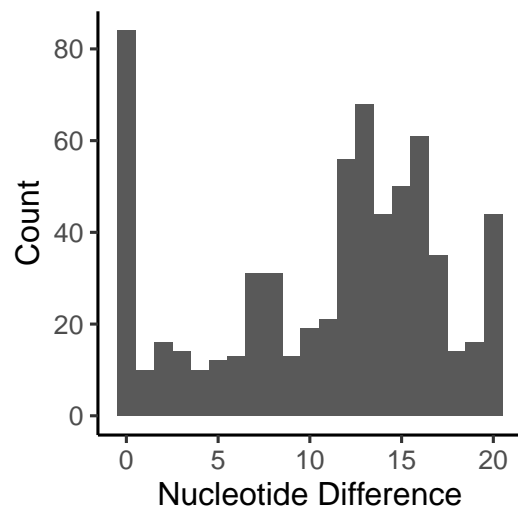
IGHV1-45*02

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



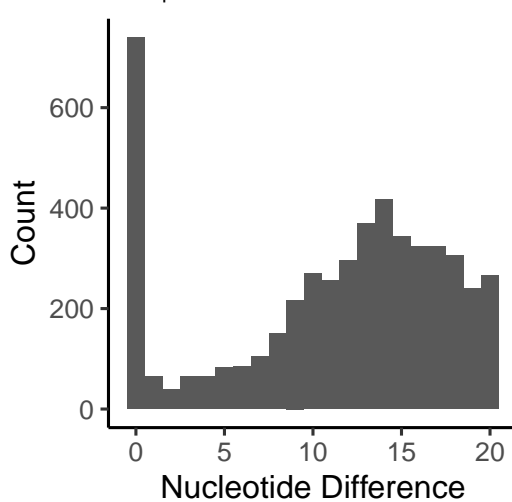
IGHV1-3*01

1013 sequences assigned
84 (8.3%) exact matches, in which:
81 unique CDR3
6 unique J



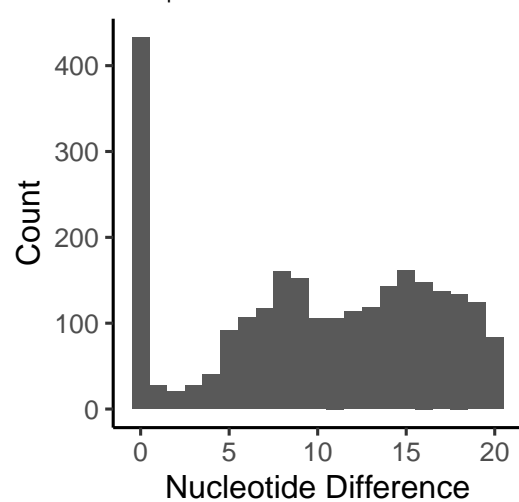
IGHV1-18*01

7563 sequences assigned
740 (9.8%) exact matches, in which:
690 unique CDR3
6 unique J



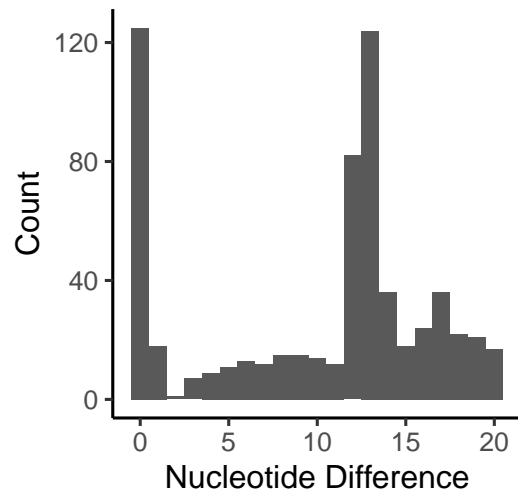
IGHV1-46*03

3882 sequences assigned
433 (11.2%) exact matches, in which:
396 unique CDR3
6 unique J



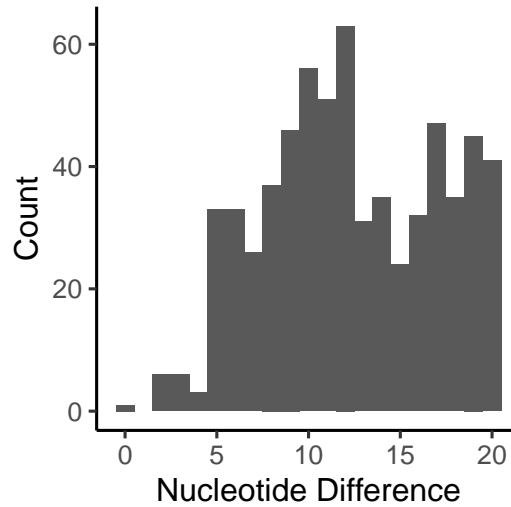
IGHV1-58*02

717 sequences assigned
125 (17.4%) exact matches, in which:
110 unique CDR3
5 unique J



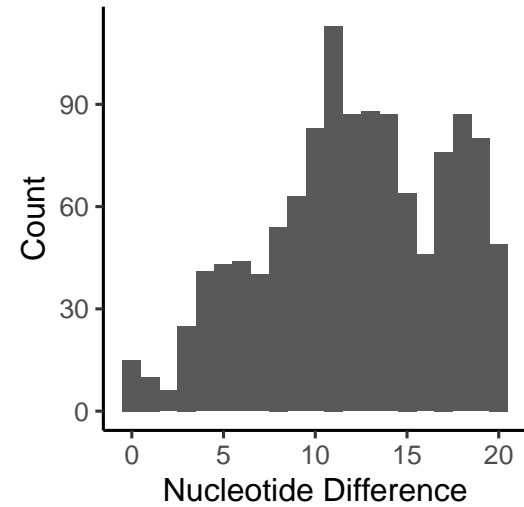
IGHV2-5*02

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



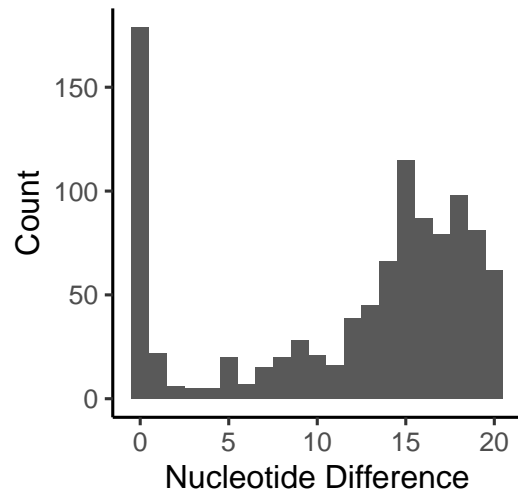
IGHV3-7*01

1523 sequences assigned
15 (1%) exact matches, in which:
12 unique CDR3
3 unique J



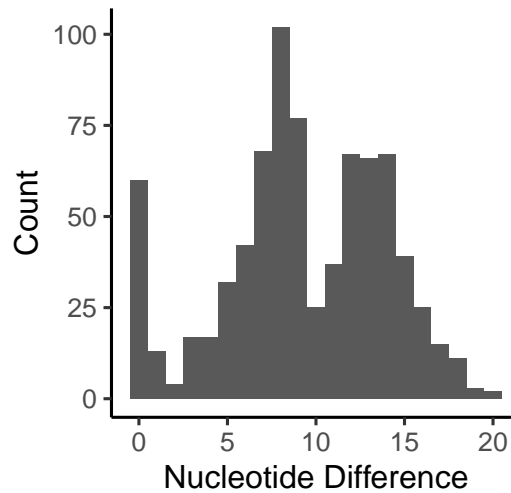
IGHV1-69*08_C191T

2924 sequences assigned
179 (6.1%) exact matches, in which:
174 unique CDR3
6 unique J



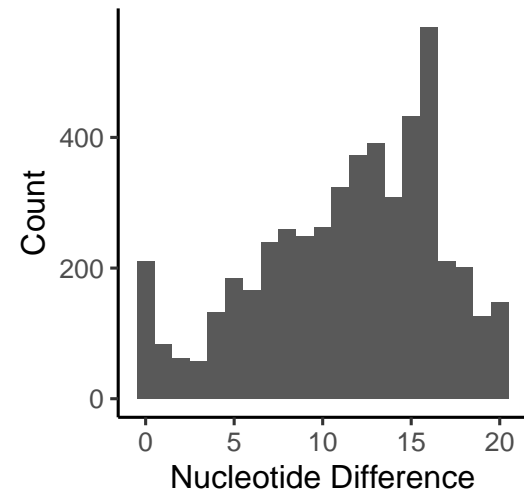
IGHV2-26*01

806 sequences assigned
60 (7.4%) exact matches, in which:
57 unique CDR3
5 unique J



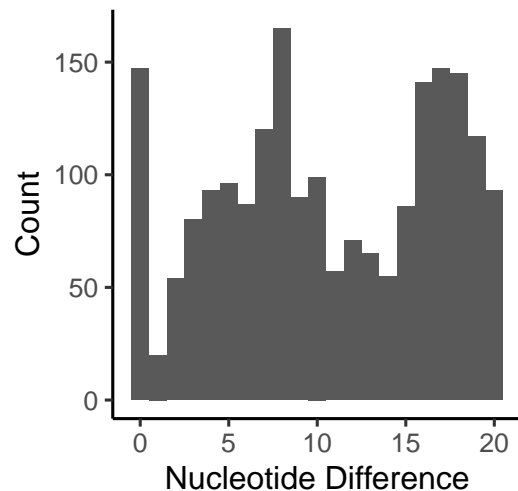
IGHV3-9*01

6118 sequences assigned
210 (3.4%) exact matches, in which:
181 unique CDR3
6 unique J



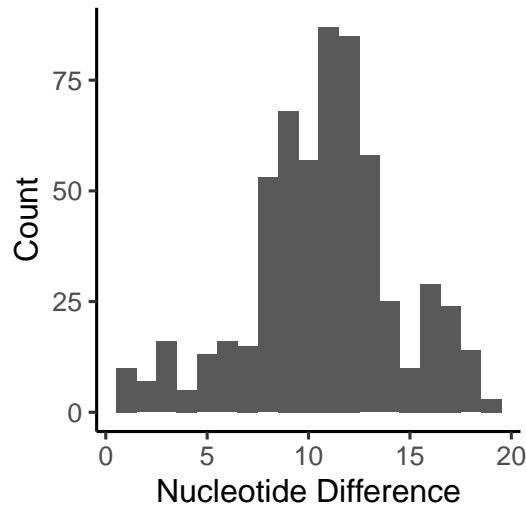
IGHV2-5*01

2327 sequences assigned
147 (6.3%) exact matches, in which:
127 unique CDR3
5 unique J



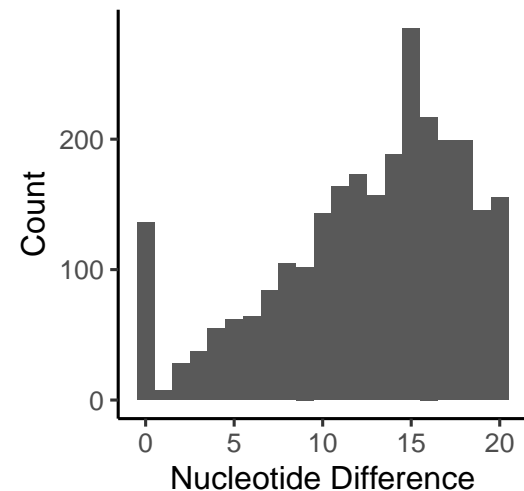
IGHV2-70*17

630 sequences assigned
No exact matches.



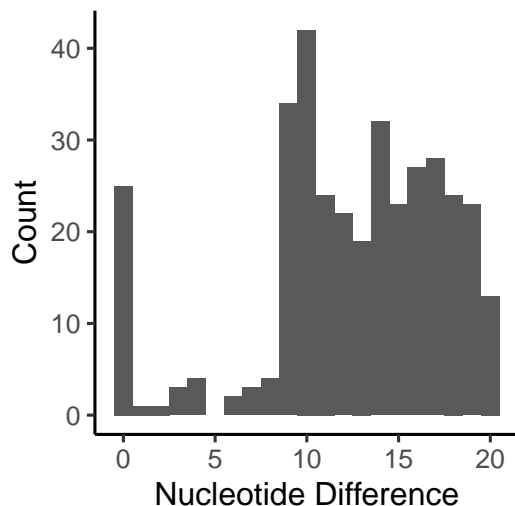
IGHV3-11*01

3793 sequences assigned
136 (3.6%) exact matches, in which:
123 unique CDR3
6 unique J



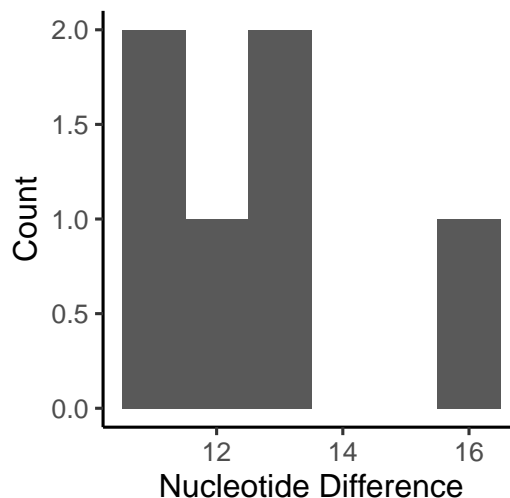
IGHV3-13*01

466 sequences assigned
25 (5.4%) exact matches, in which:
24 unique CDR3
5 unique J



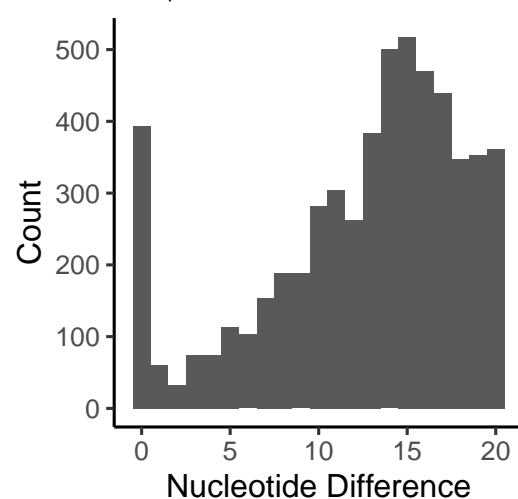
IGHV3-20*04

8 sequences assigned
No exact matches.



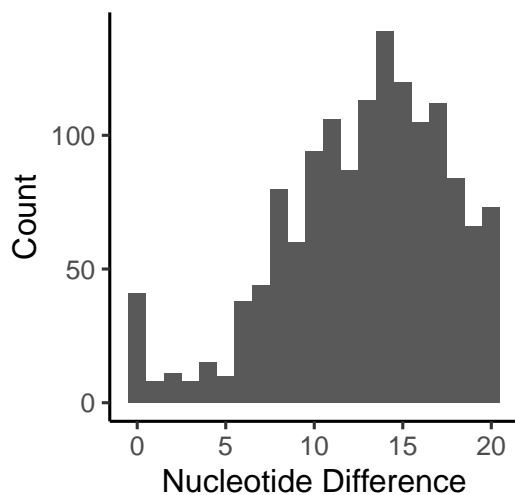
IGHV3-30*04

8046 sequences assigned
394 (4.9%) exact matches, in which:
377 unique CDR3
6 unique J



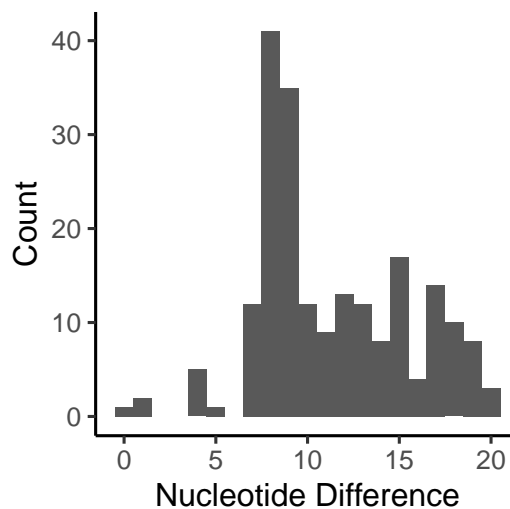
IGHV3-15*01

1915 sequences assigned
41 (2.1%) exact matches, in which:
36 unique CDR3
4 unique J



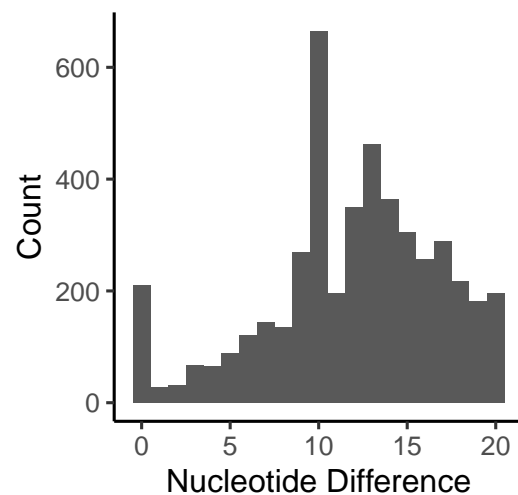
IGHV3-21*06

315 sequences assigned
1 (0.3%) exact matches, in which:
1 unique CDR3
1 unique J



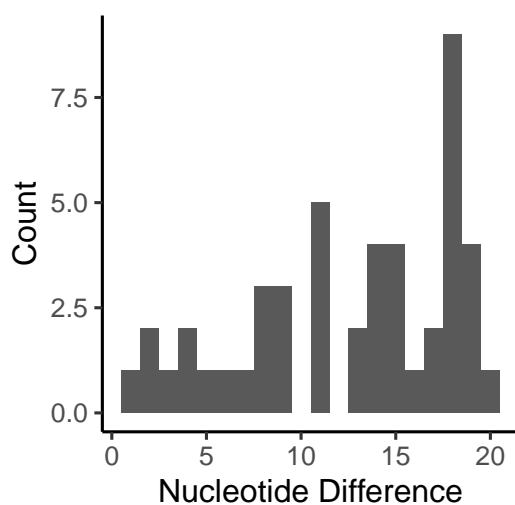
IGHV3-33*01

5858 sequences assigned
210 (3.6%) exact matches, in which:
190 unique CDR3
6 unique J



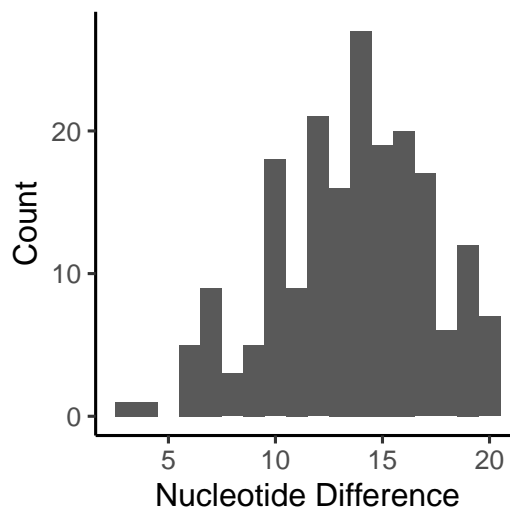
IGHV3-20*01

65 sequences assigned
No exact matches.



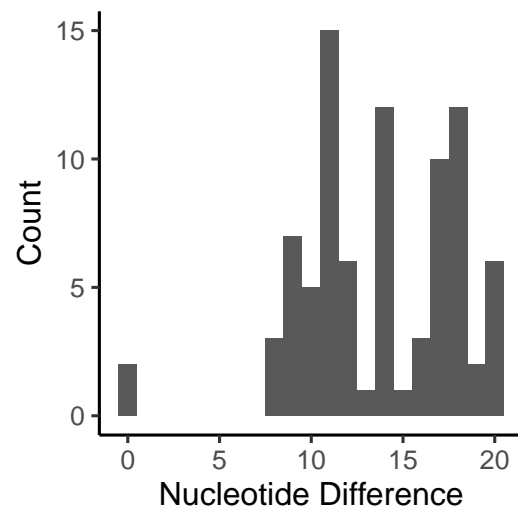
IGHV3-30-3*01

449 sequences assigned
No exact matches.



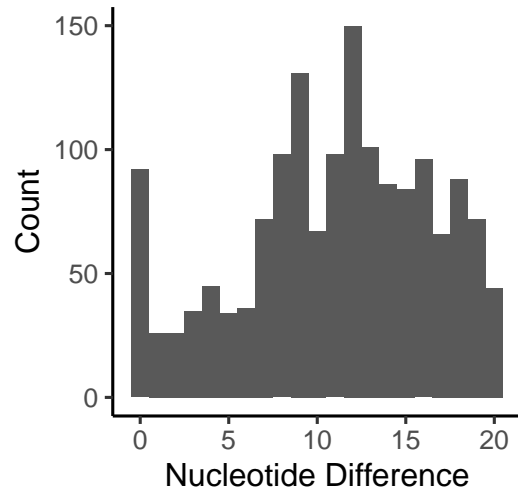
IGHV3-43*01

105 sequences assigned
2 (1.9%) exact matches, in which:
2 unique CDR3
1 unique J



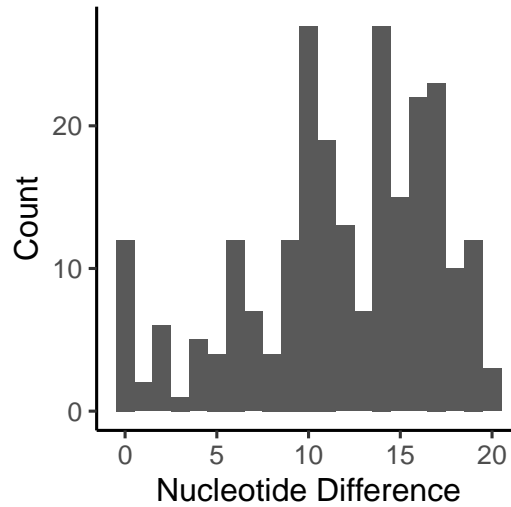
IGHV3-48*01

2020 sequences assigned
92 (4.6%) exact matches, in which:
72 unique CDR3
5 unique J



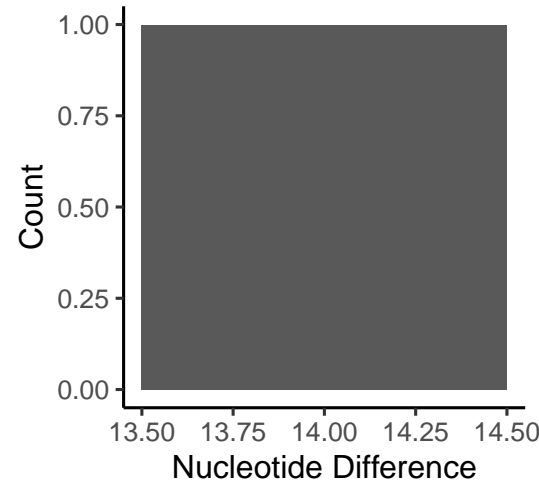
IGHV3-64*01

293 sequences assigned
12 (4.1%) exact matches, in which:
11 unique CDR3
4 unique J



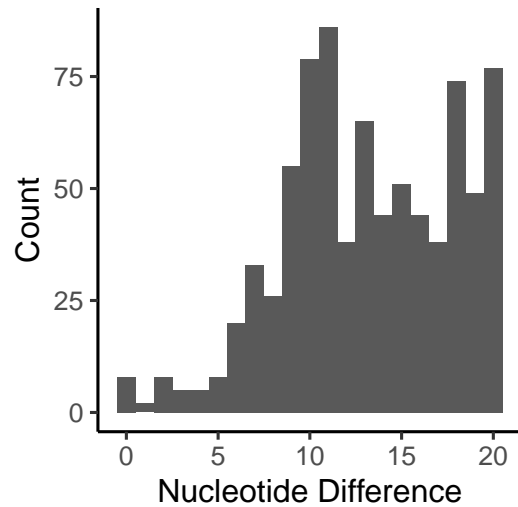
IGHV3-69-1*02

2 sequences assigned
No exact matches.



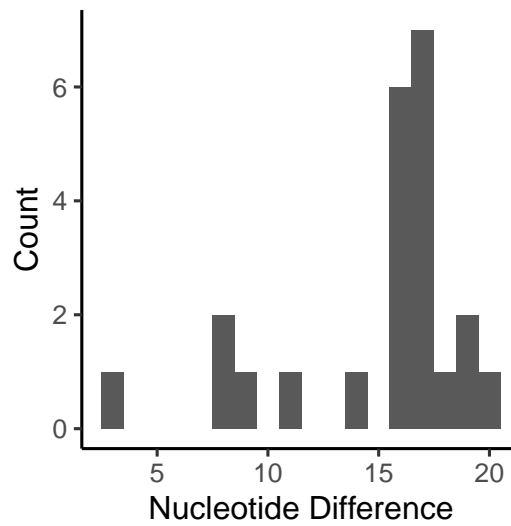
IGHV3-49*03

1411 sequences assigned
8 (0.6%) exact matches, in which:
7 unique CDR3
2 unique J



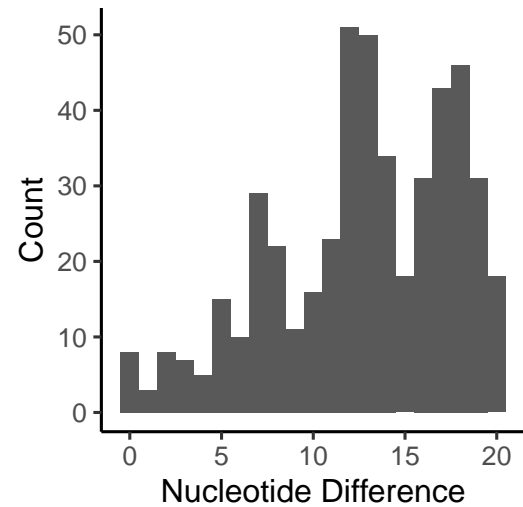
IGHV3-64*07

79 sequences assigned
No exact matches.



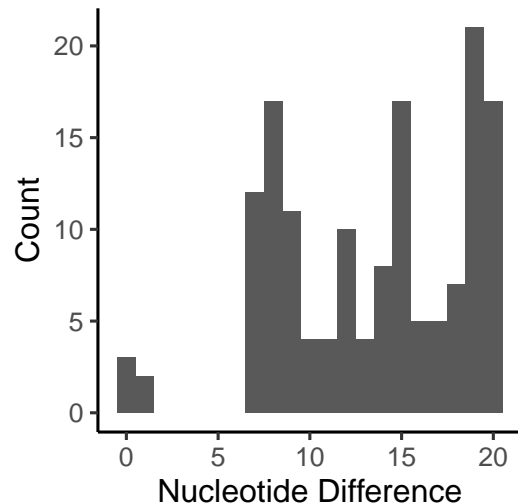
IGHV3-72*01

771 sequences assigned
8 (1%) exact matches, in which:
8 unique CDR3
2 unique J



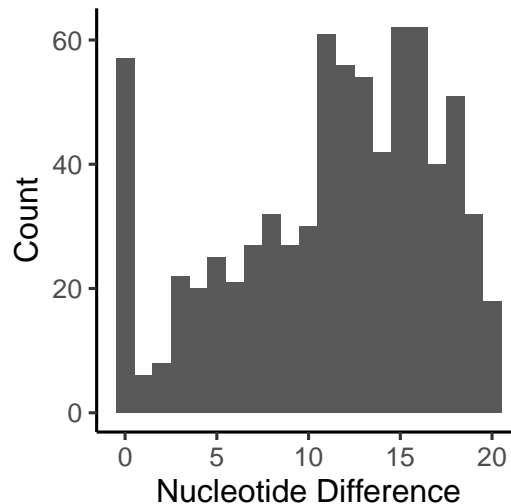
IGHV3-53*04

265 sequences assigned
3 (1.1%) exact matches, in which:
3 unique CDR3
1 unique J



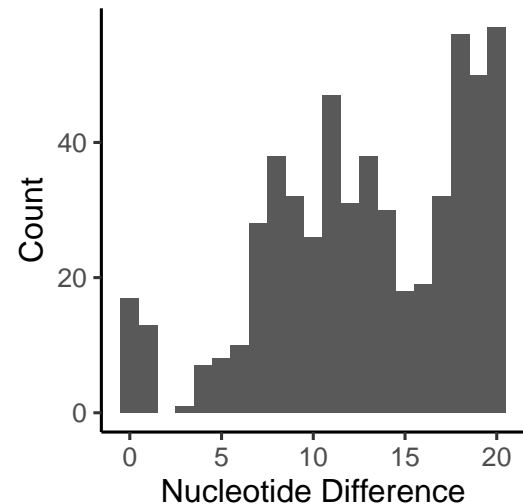
IGHV3-66*01

2114 sequences assigned
57 (2.7%) exact matches, in which:
52 unique CDR3
4 unique J



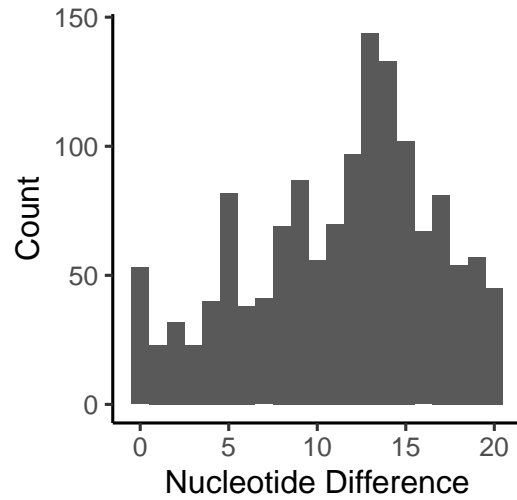
IGHV3-73*01

963 sequences assigned
17 (1.8%) exact matches, in which:
16 unique CDR3
4 unique J



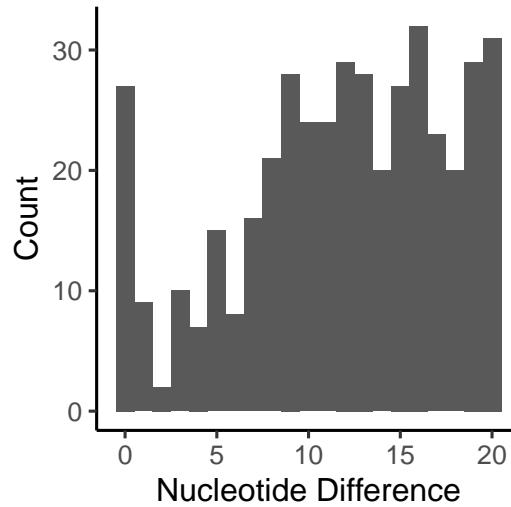
IGHV3-74*01

1656 sequences assigned
53 (3.2%) exact matches, in which:
36 unique CDR3
5 unique J



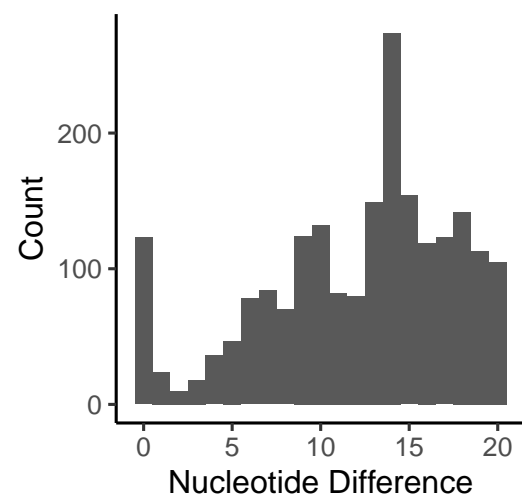
IGHV4-4*07

635 sequences assigned
27 (4.3%) exact matches, in which:
27 unique CDR3
6 unique J



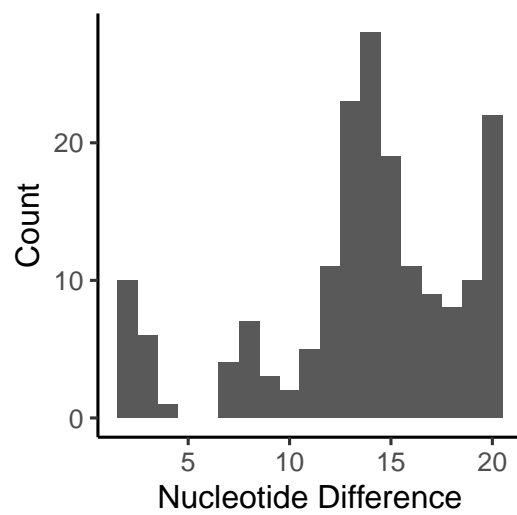
IGHV4-31*03

2773 sequences assigned
123 (4.4%) exact matches, in which:
107 unique CDR3
5 unique J



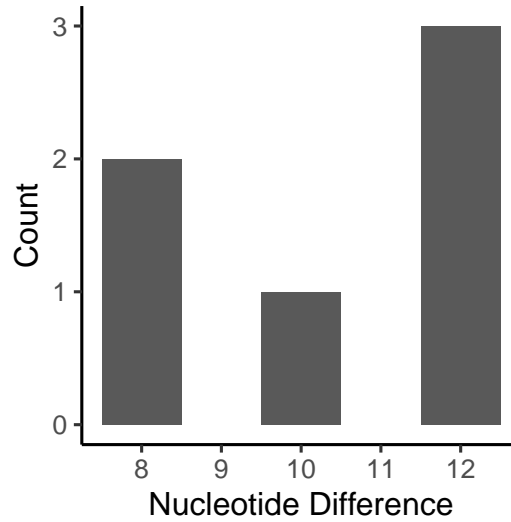
IGHV3-74*03

270 sequences assigned
No exact matches.



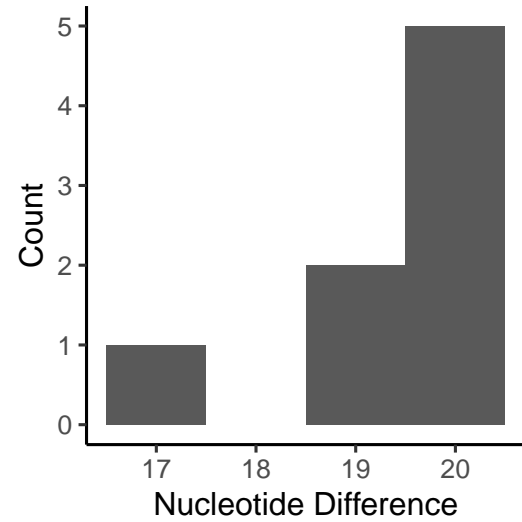
IGHV4-28*05

6 sequences assigned
No exact matches.



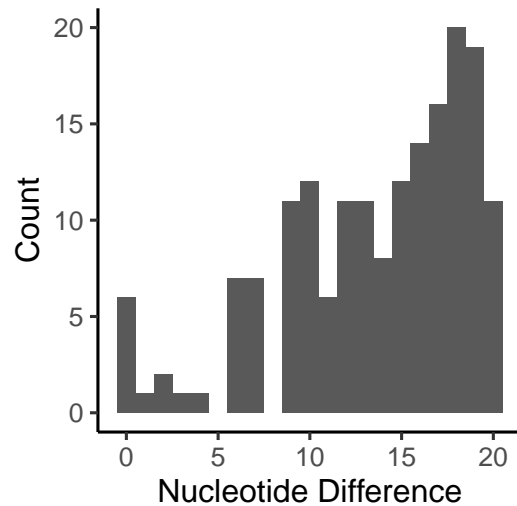
IGHV4-38-2*02

9 sequences assigned
No exact matches.



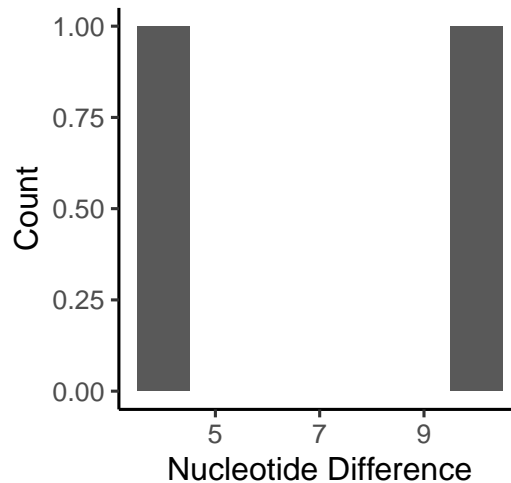
IGHV4-4*02

325 sequences assigned
6 (1.8%) exact matches, in which:
4 unique CDR3
3 unique J



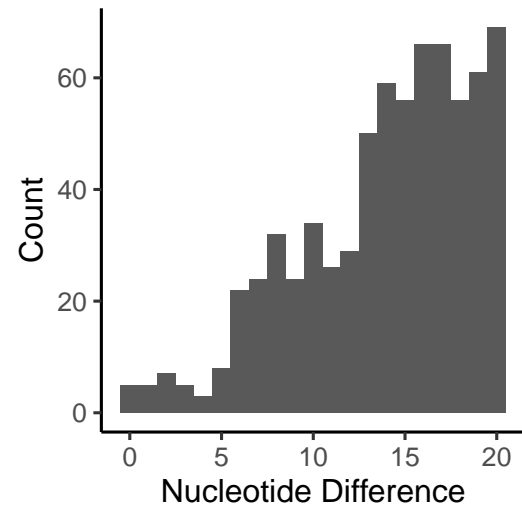
IGHV4-30-4*01

2 sequences assigned
No exact matches.



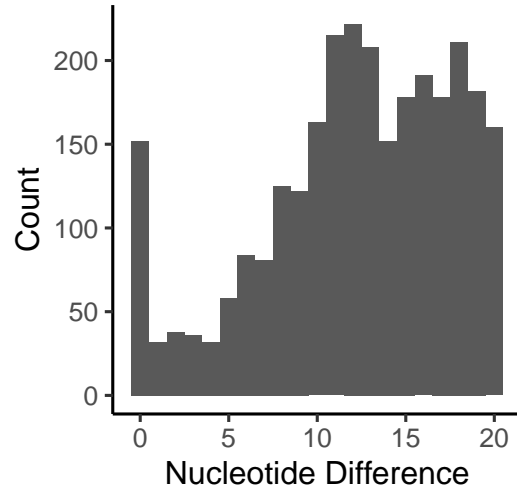
IGHV4-39*01

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



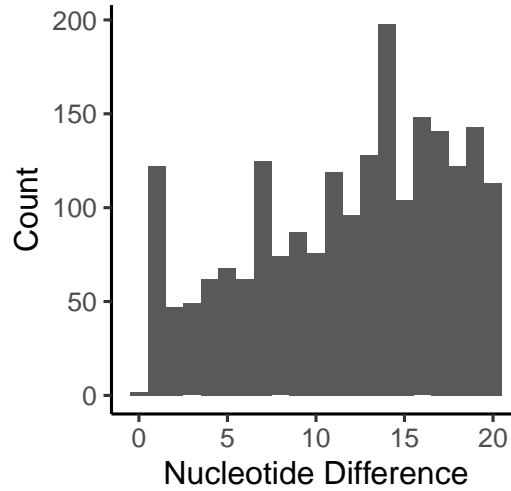
IGHV4-59*01

4037 sequences assigned
152 (3.8%) exact matches, in which:
131 unique CDR3
5 unique J



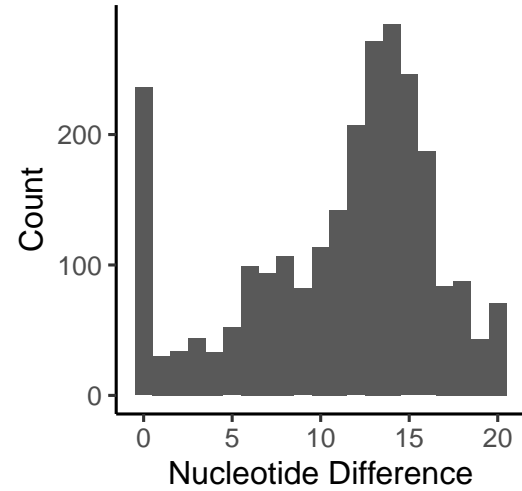
IGHV5-51*01

2729 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
2 unique J



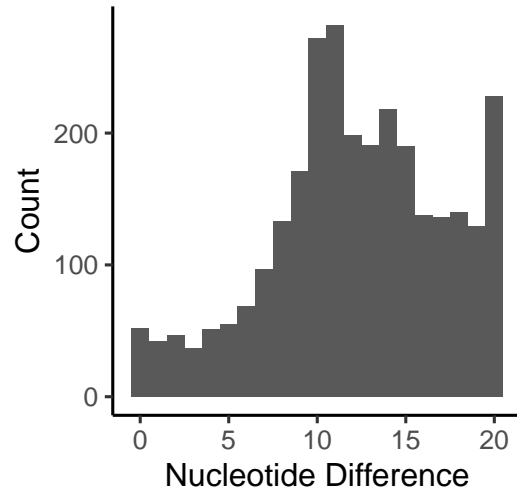
IGHV7-4-1*02

3228 sequences assigned
236 (7.3%) exact matches, in which:
211 unique CDR3
5 unique J



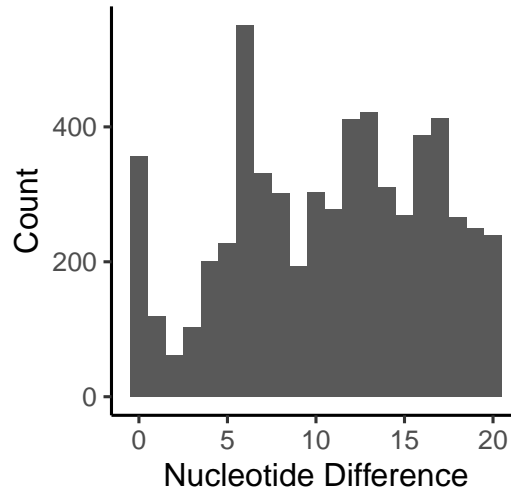
IGHV4-59*08

4092 sequences assigned
52 (1.3%) exact matches, in which:
39 unique CDR3
5 unique J



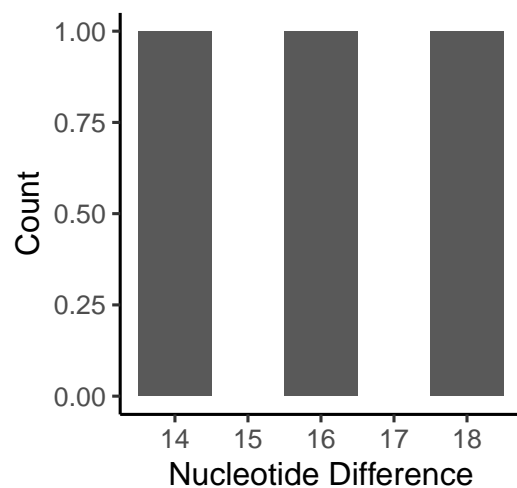
IGHV5-51*03

7316 sequences assigned
356 (4.9%) exact matches, in which:
296 unique CDR3
6 unique J



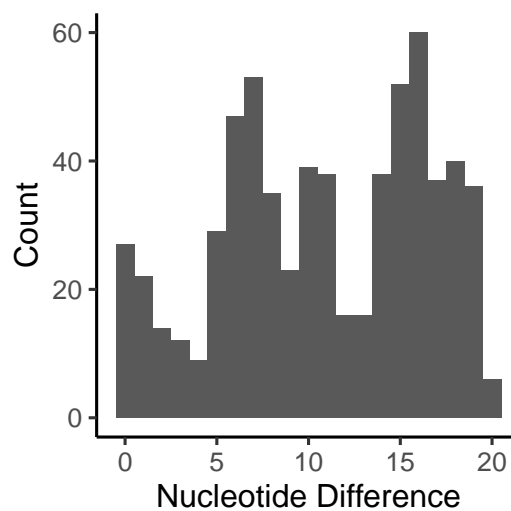
IGHV4-61*02

3 sequences assigned
No exact matches.



IGHV6-1*01

708 sequences assigned
27 (3.8%) exact matches, in which:
15 unique CDR3
4 unique J



IGHV1-69*08_C191T

