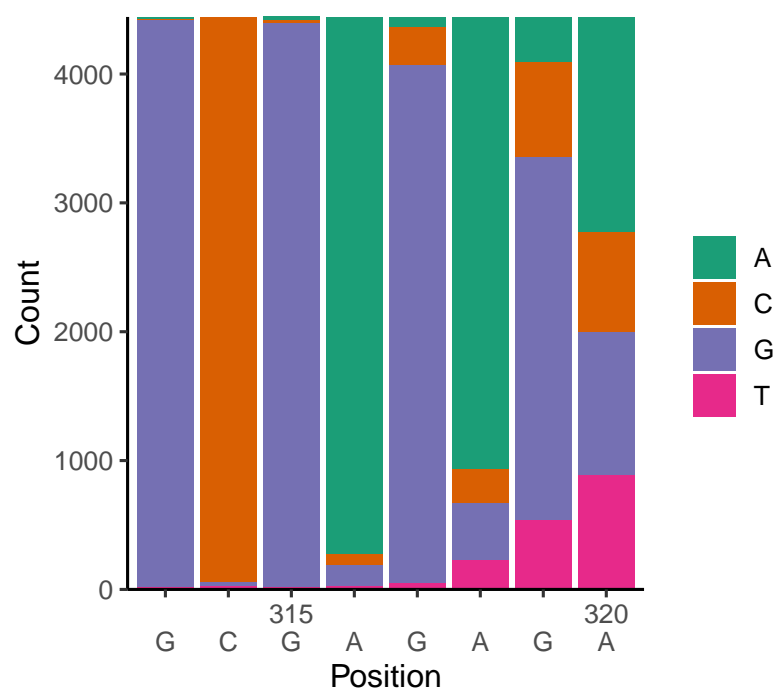
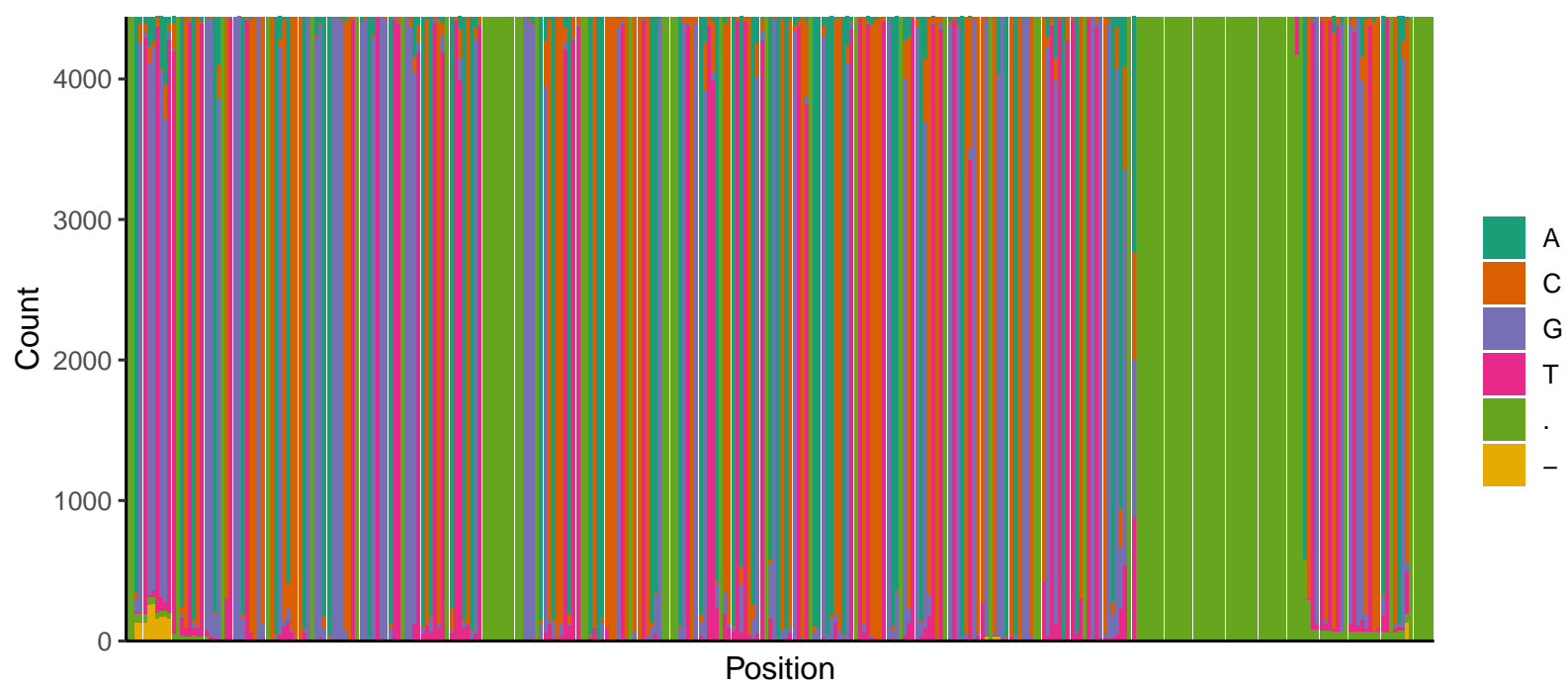


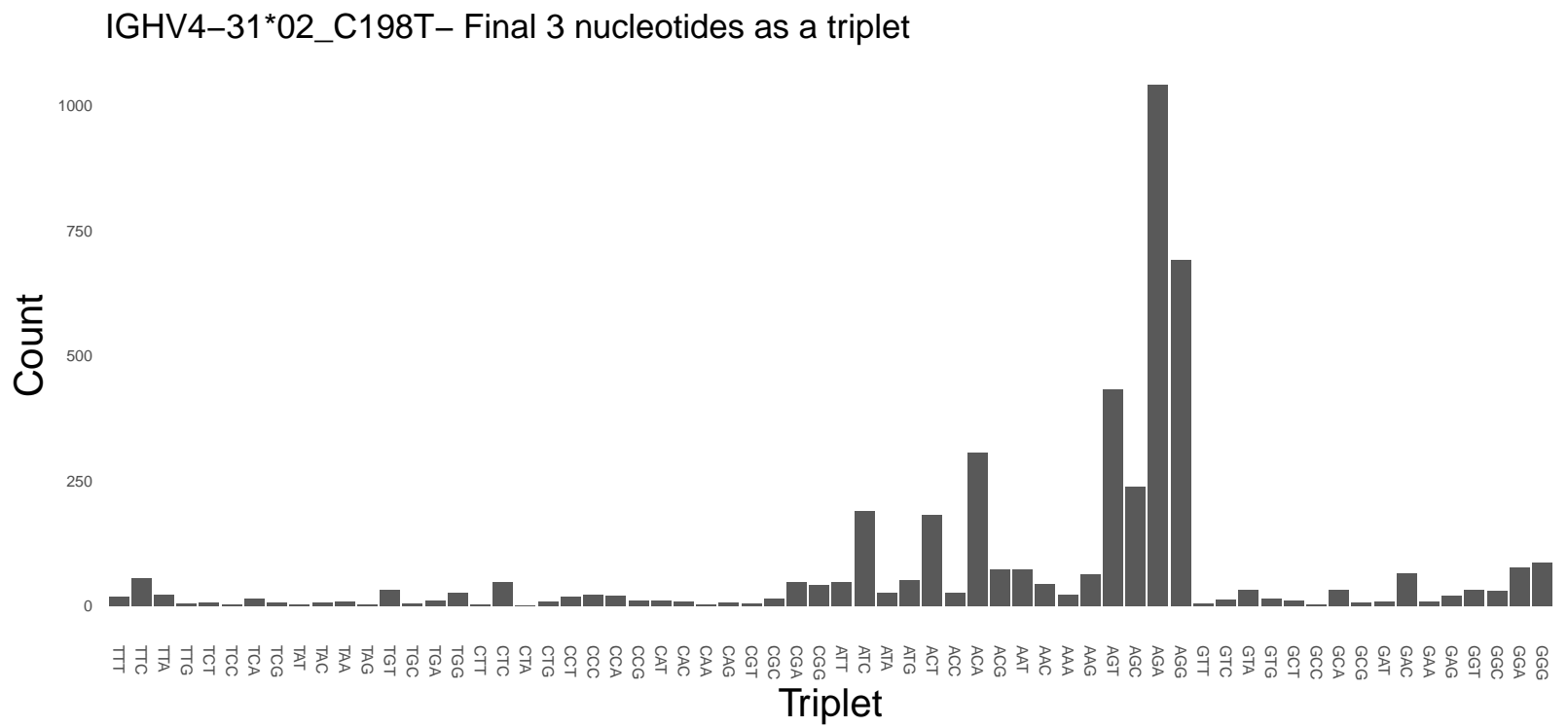
Gene IGHV4-31*02_C198T



Gene IGHV4-31*02_C198T

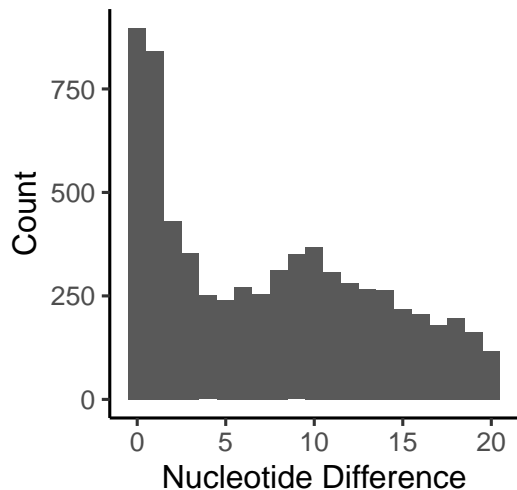


IGHV4-31*02_C198T- Final 3 nucleotides as a triplet



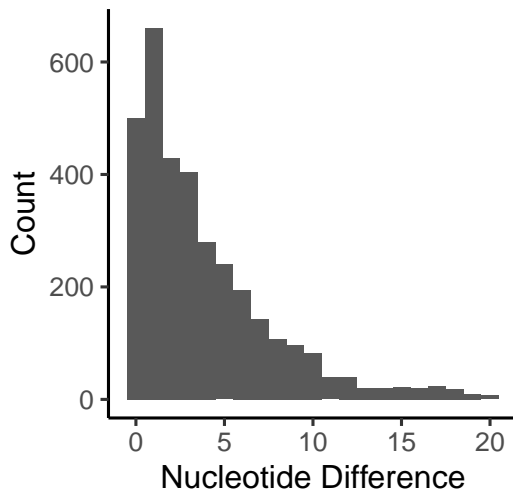
IGHV1-2*02

7345 sequences assigned
898 (12.2%) exact matches, in which:
742 unique CDR3
7 unique J



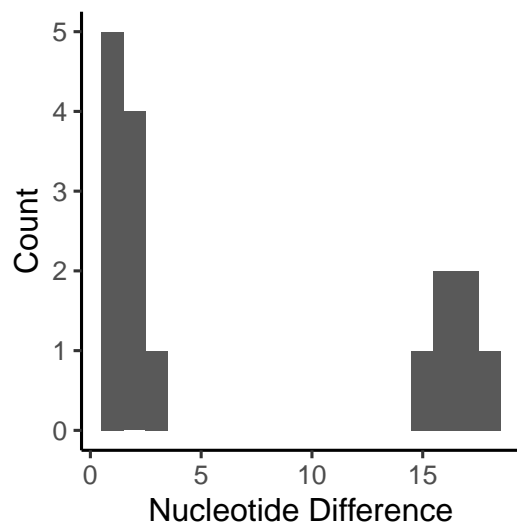
IGHV1-8*03

3398 sequences assigned
501 (14.7%) exact matches, in which:
382 unique CDR3
7 unique J



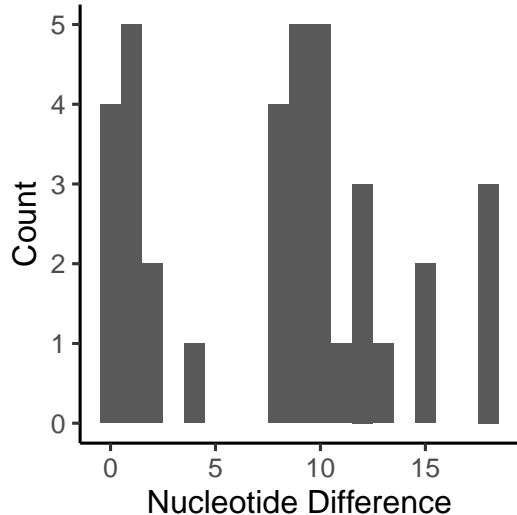
IGHV1-45*02

16 sequences assigned
No exact matches.



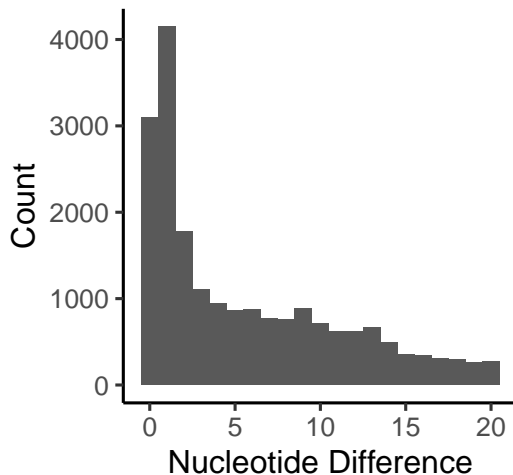
IGHV1-3*02

36 sequences assigned
4 (11.1%) exact matches, in which:
4 unique CDR3
2 unique J



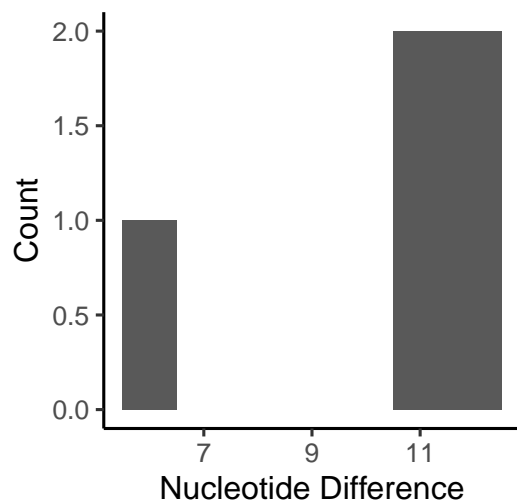
IGHV1-18*01

21324 sequences assigned
3097 (14.5%) exact matches, in which:
2374 unique CDR3
7 unique J



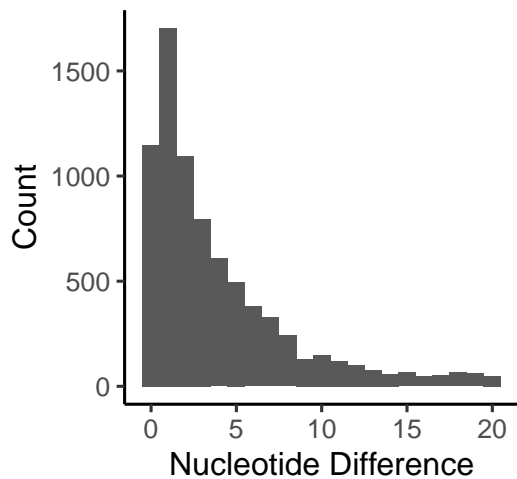
IGHV1-45*03

5 sequences assigned
No exact matches.



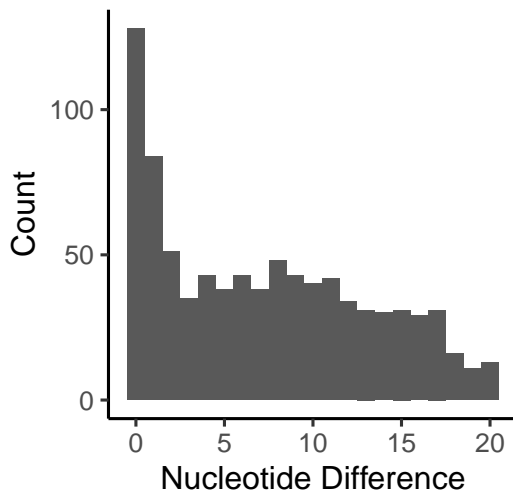
IGHV1-8*01

7889 sequences assigned
1148 (14.6%) exact matches, in which:
911 unique CDR3
7 unique J



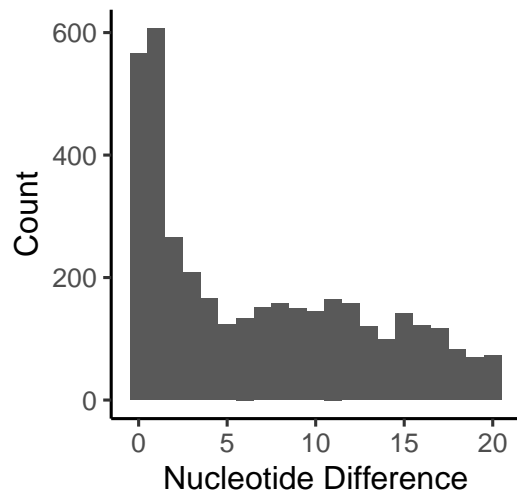
IGHV1-24*01

917 sequences assigned
128 (14%) exact matches, in which:
117 unique CDR3
7 unique J



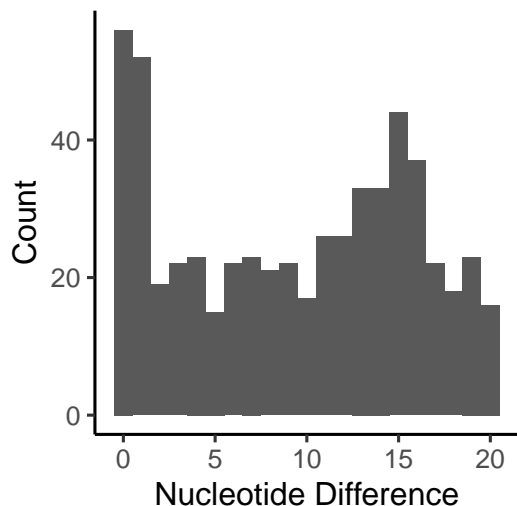
IGHV1-46*01

4108 sequences assigned
566 (13.8%) exact matches, in which:
435 unique CDR3
7 unique J



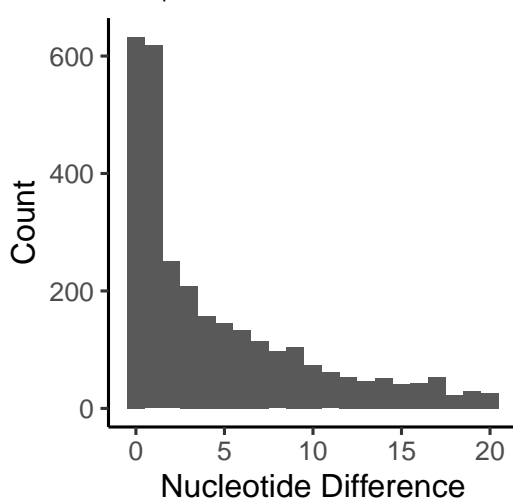
IGHV1-58*02

648 sequences assigned
56 (8.6%) exact matches, in which:
51 unique CDR3
7 unique J



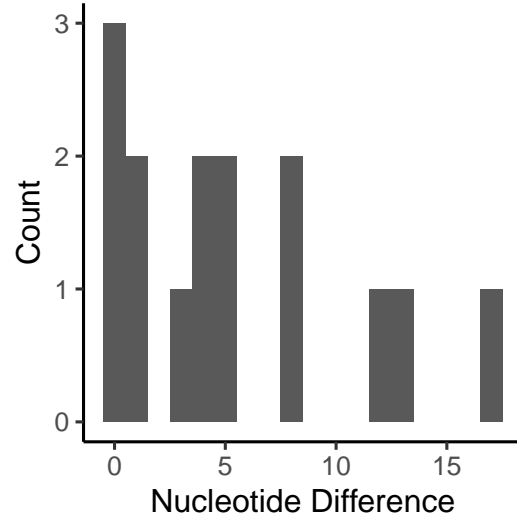
IGHV1-69*01_12_13

3117 sequences assigned
633 (20.3%) exact matches, in which:
539 unique CDR3
7 unique J



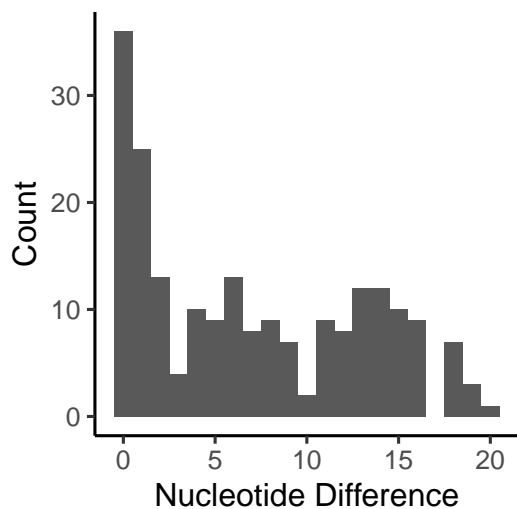
IGHV2-5*02

15 sequences assigned
3 (20%) exact matches, in which:
3 unique CDR3
2 unique J



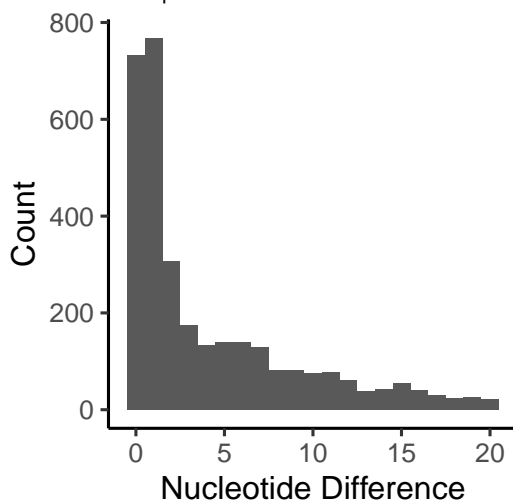
IGHV1-69-2*01

221 sequences assigned
36 (16.3%) exact matches, in which:
34 unique CDR3
6 unique J



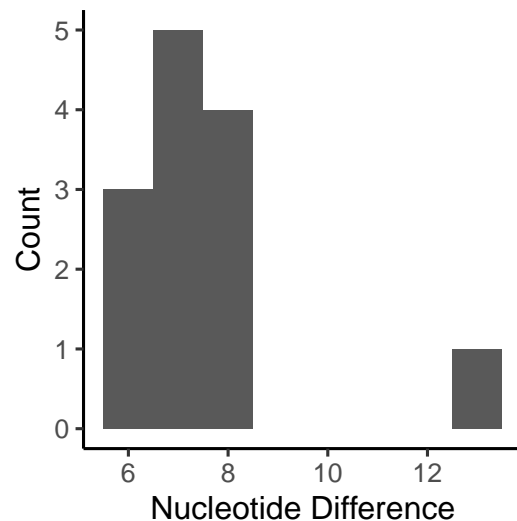
IGHV1-69*04_09

3299 sequences assigned
733 (22.2%) exact matches, in which:
623 unique CDR3
7 unique J



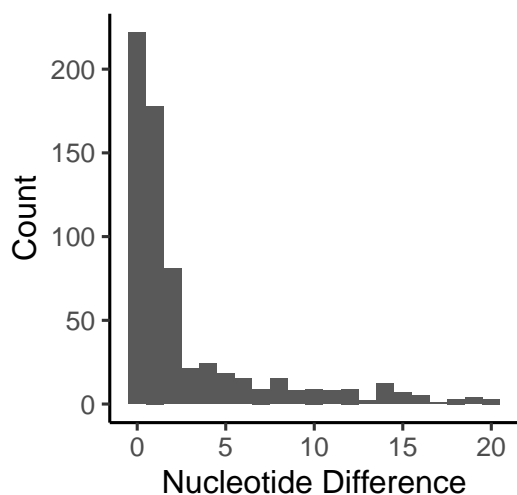
IGHV2-70*11_15

13 sequences assigned
No exact matches.



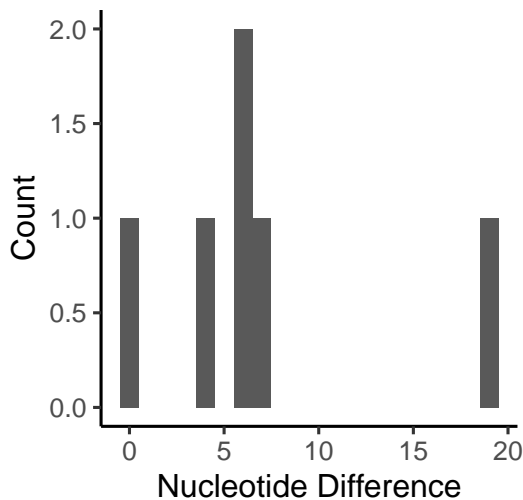
IGHV1-69*02

680 sequences assigned
222 (32.6%) exact matches, in which:
182 unique CDR3
7 unique J



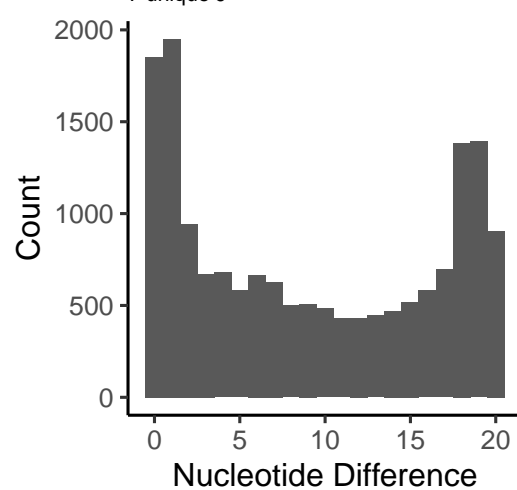
IGHV2-5*01

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



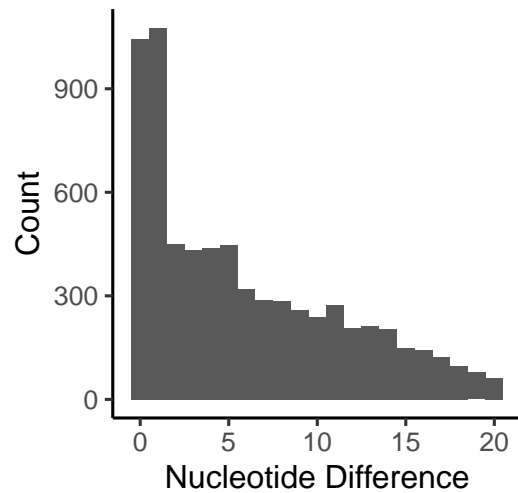
IGHV3-7*01

18874 sequences assigned
1851 (9.8%) exact matches, in which:
1471 unique CDR3
7 unique J



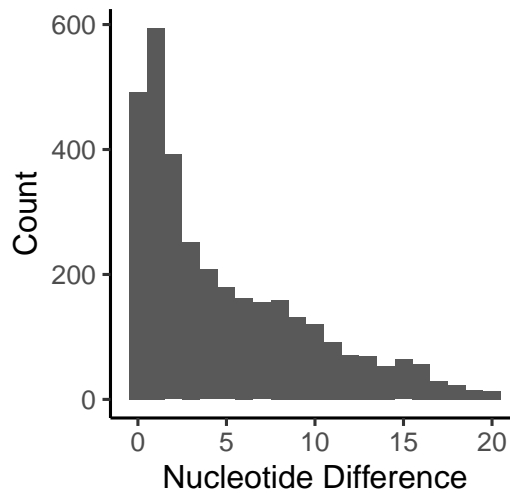
IGHV3-9*01

7063 sequences assigned
1044 (14.8%) exact matches, in which:
804 unique CDR3
7 unique J



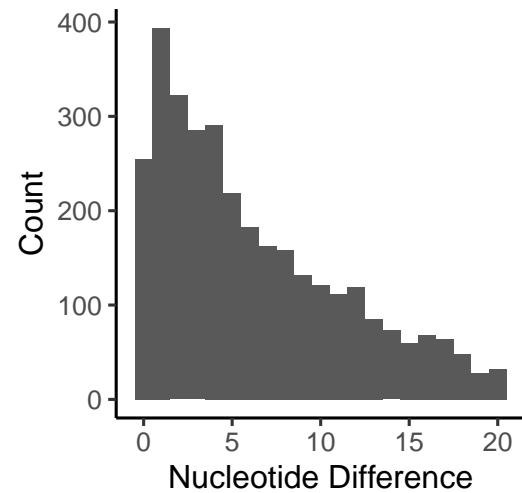
IGHV3-11*04

3381 sequences assigned
492 (14.6%) exact matches, in which:
399 unique CDR3
7 unique J



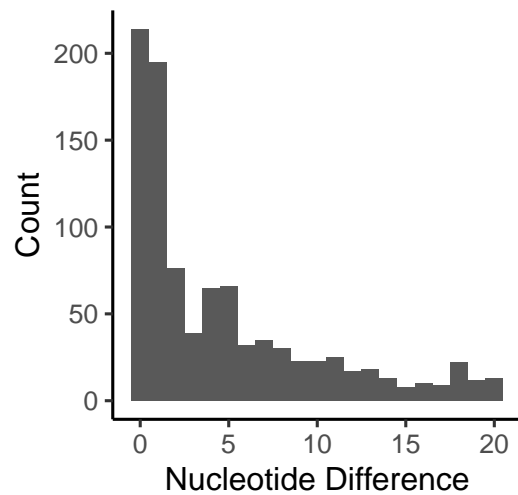
IGHV3-20*03_04

3312 sequences assigned
255 (7.7%) exact matches, in which:
203 unique CDR3
7 unique J



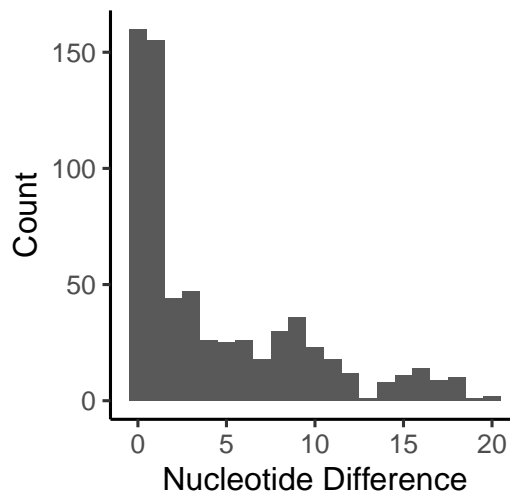
IGHV3-9*03

959 sequences assigned
214 (22.3%) exact matches, in which:
168 unique CDR3
7 unique J



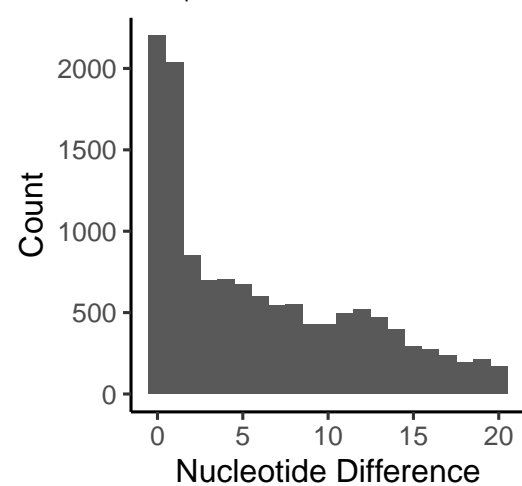
IGHV3-13*01

695 sequences assigned
160 (23%) exact matches, in which:
121 unique CDR3
6 unique J



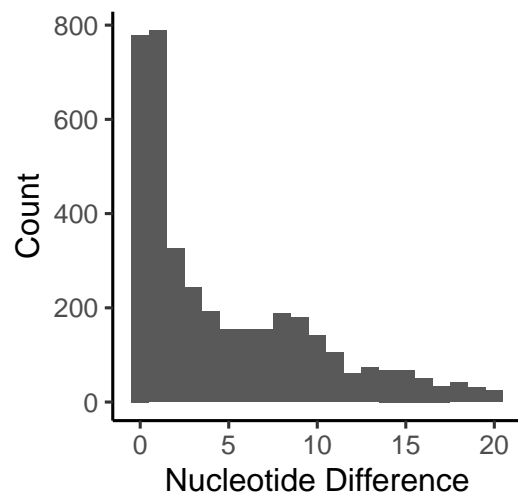
IGHV3-21*01_02

13538 sequences assigned
2201 (16.3%) exact matches, in which:
1695 unique CDR3
7 unique J



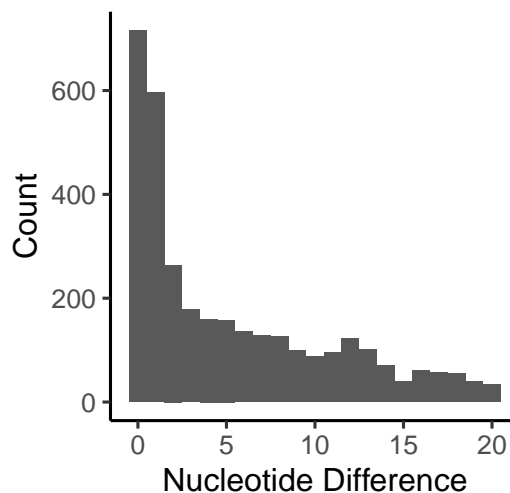
IGHV3-11*01

3951 sequences assigned
779 (19.7%) exact matches, in which:
625 unique CDR3
7 unique J



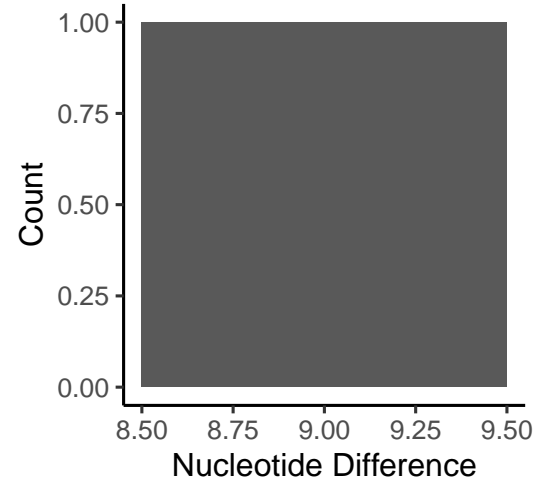
IGHV3-15*01_02

3457 sequences assigned
716 (20.7%) exact matches, in which:
626 unique CDR3
7 unique J



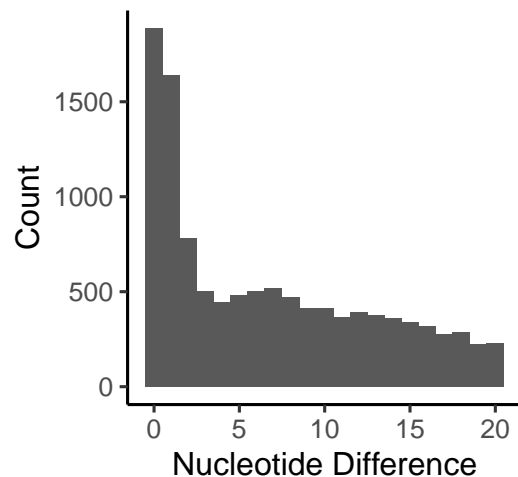
IGHV3-22*01_02

1 sequences assigned
No exact matches.



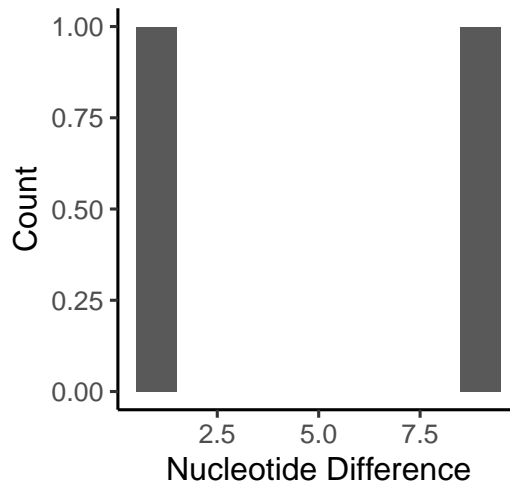
IGHV3-23*01_04

12387 sequences assigned
1886 (15.2%) exact matches, in which:
1544 unique CDR3
7 unique J



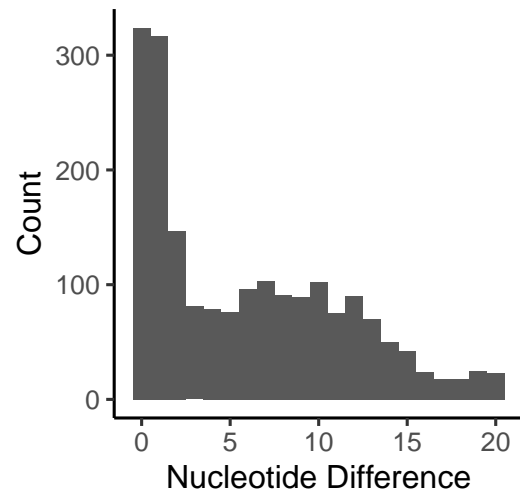
IGHV3-38-3*01

2 sequences assigned
No exact matches.



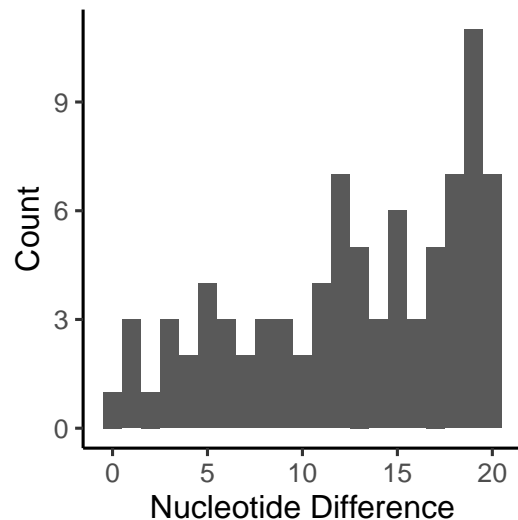
IGHV3-49*04

2039 sequences assigned
324 (15.9%) exact matches, in which:
257 unique CDR3
7 unique J



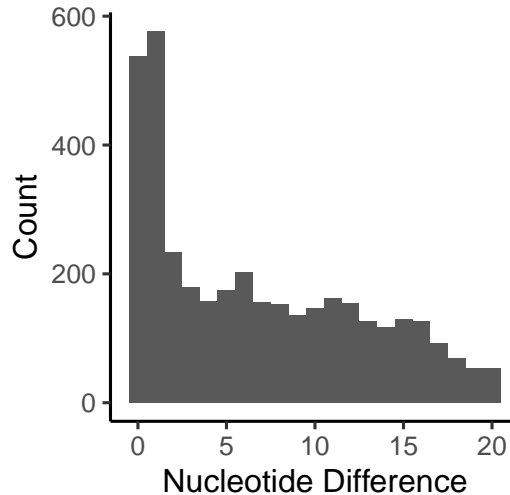
IGHV3-30-5*01

121 sequences assigned
1 (0.8%) exact matches, in which:
1 unique CDR3
1 unique J



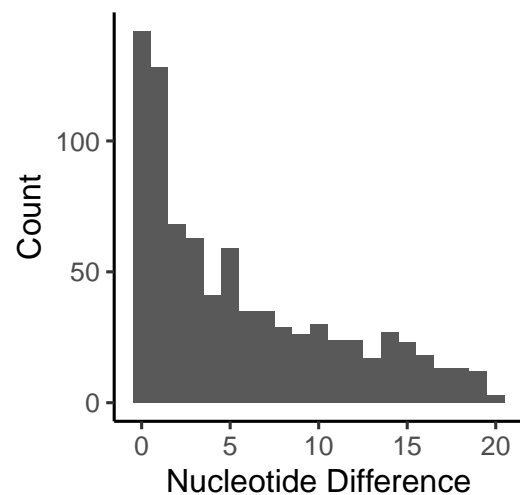
IGHV3-43*02

3930 sequences assigned
538 (13.7%) exact matches, in which:
421 unique CDR3
6 unique J



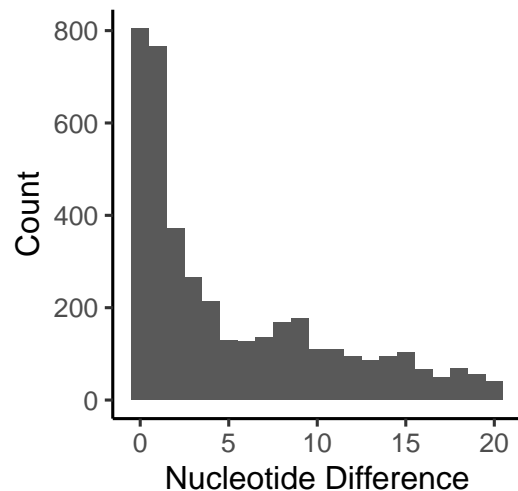
IGHV3-49*03_05

854 sequences assigned
142 (16.6%) exact matches, in which:
113 unique CDR3
7 unique J



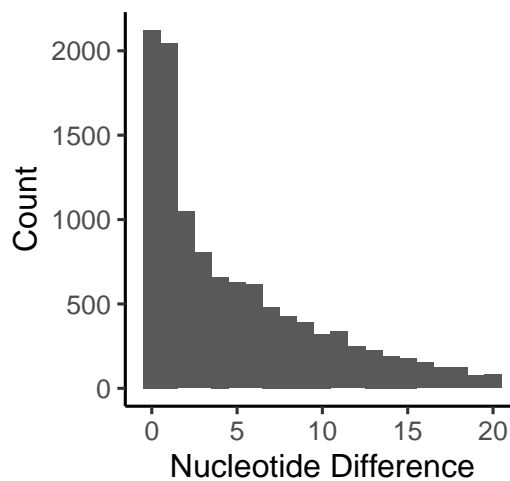
IGHV3-33*01

4135 sequences assigned
805 (19.5%) exact matches, in which:
557 unique CDR3
7 unique J



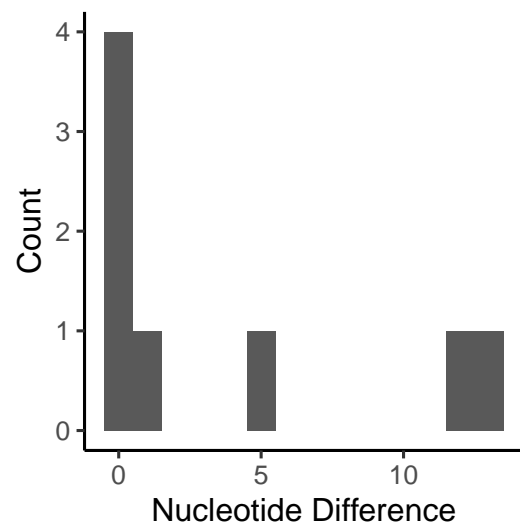
IGHV3-48*03

11560 sequences assigned
2123 (18.4%) exact matches, in which:
1728 unique CDR3
7 unique J



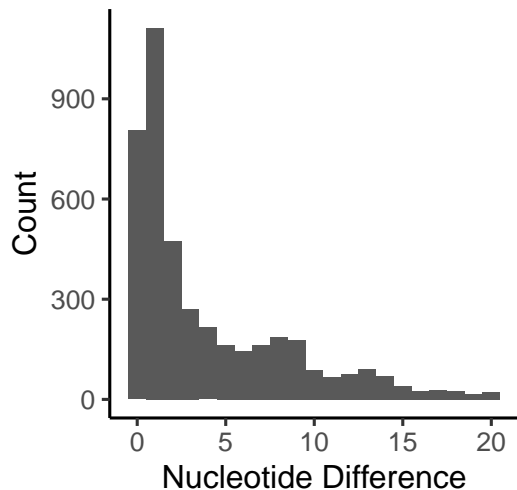
IGHV3-52*01_03

8 sequences assigned
4 (50%) exact matches, in which:
4 unique CDR3
3 unique J



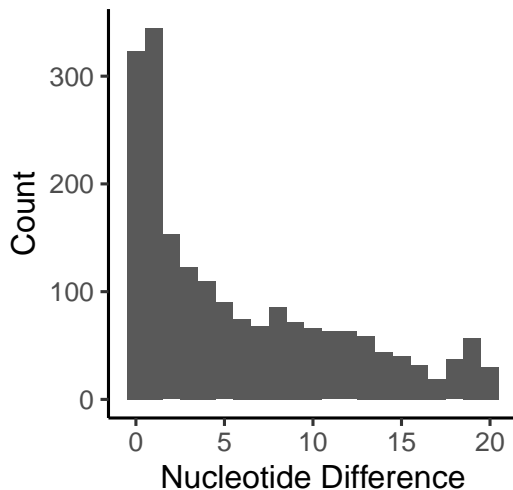
IGHV3-53*04

4382 sequences assigned
805 (18.4%) exact matches, in which:
575 unique CDR3
7 unique J



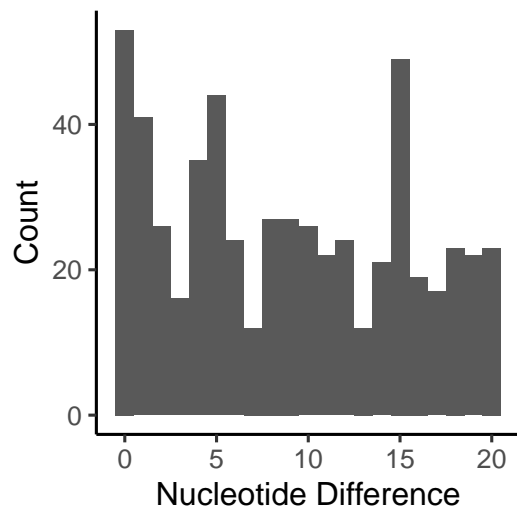
IGHV3-66*02

2063 sequences assigned
323 (15.7%) exact matches, in which:
251 unique CDR3
7 unique J



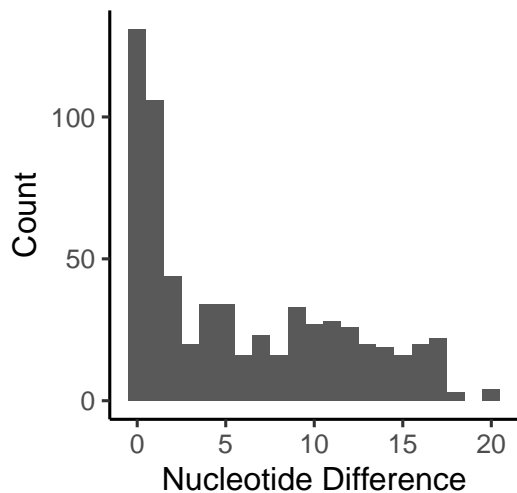
IGHV3-72*01

671 sequences assigned
53 (7.9%) exact matches, in which:
48 unique CDR3
5 unique J



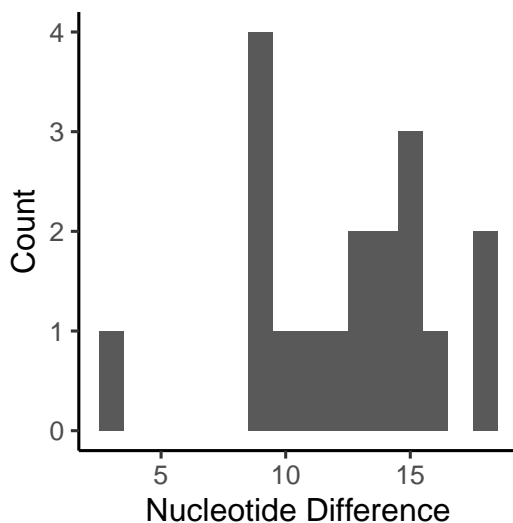
IGHV3-64*01

693 sequences assigned
131 (18.9%) exact matches, in which:
104 unique CDR3
7 unique J



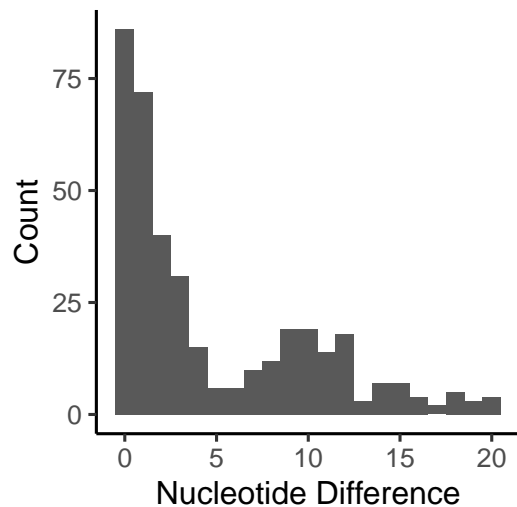
IGHV3-69-1*01

33 sequences assigned
No exact matches.



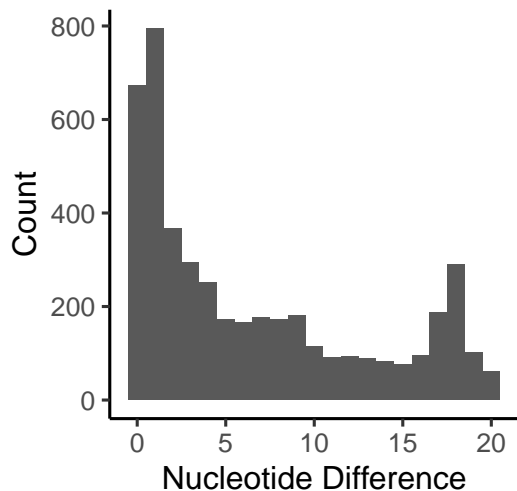
IGHV3-73*01_02

408 sequences assigned
86 (21.1%) exact matches, in which:
71 unique CDR3
7 unique J



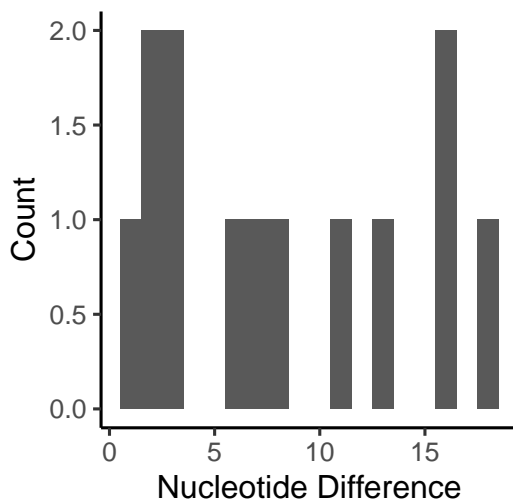
IGHV3-66*01

4754 sequences assigned
672 (14.1%) exact matches, in which:
517 unique CDR3
7 unique J



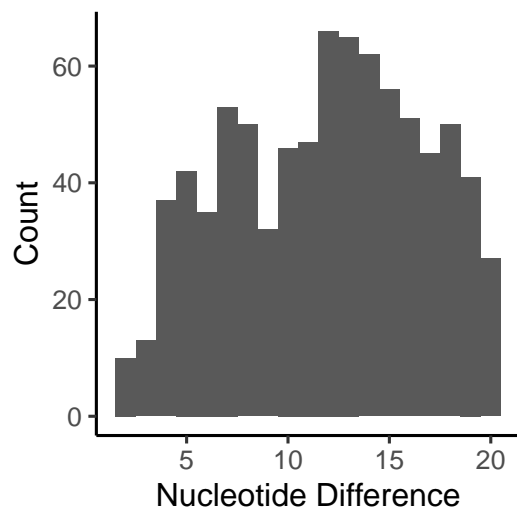
IGHV3-69-1*02

22 sequences assigned
No exact matches.



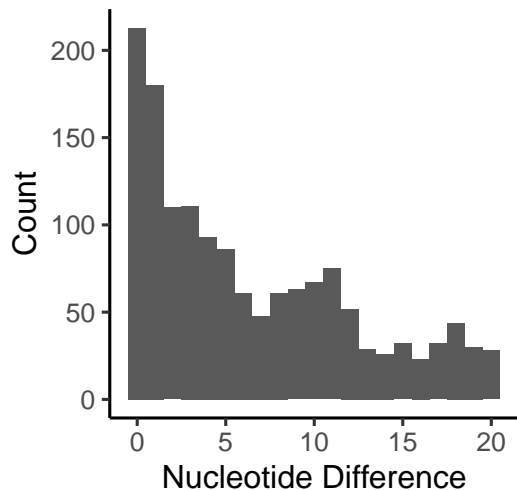
IGHV3-74*03

928 sequences assigned
No exact matches.



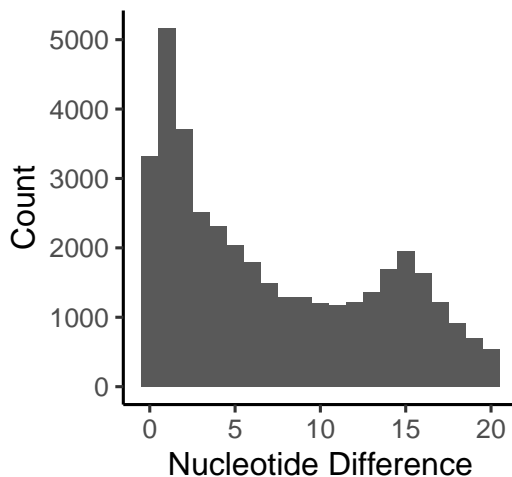
IGHV3-74*01_02

1551 sequences assigned
213 (13.7%) exact matches, in which:
170 unique CDR3
7 unique J



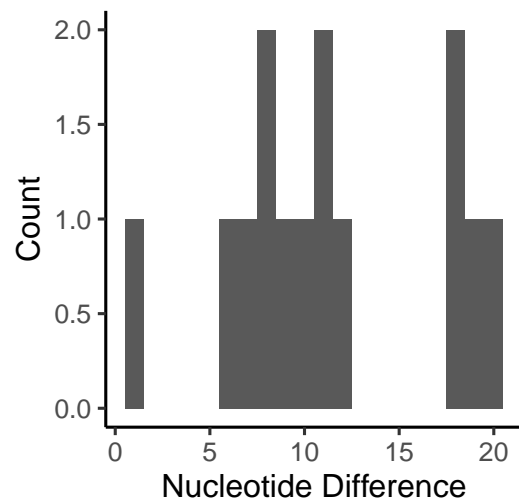
IGHV4-4*07

39836 sequences assigned
3315 (8.3%) exact matches, in which:
2233 unique CDR3
7 unique J



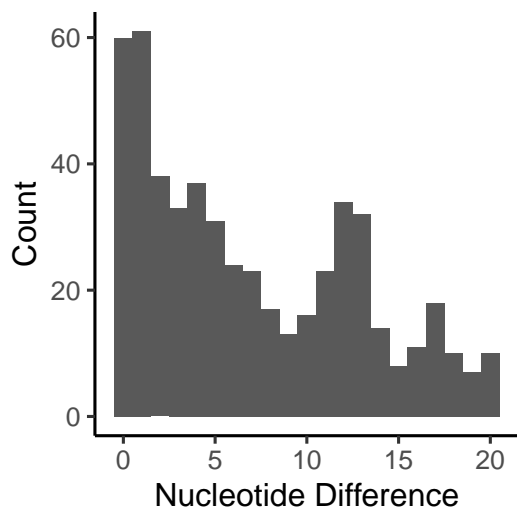
IGHV4-30-4*01

16 sequences assigned
No exact matches.



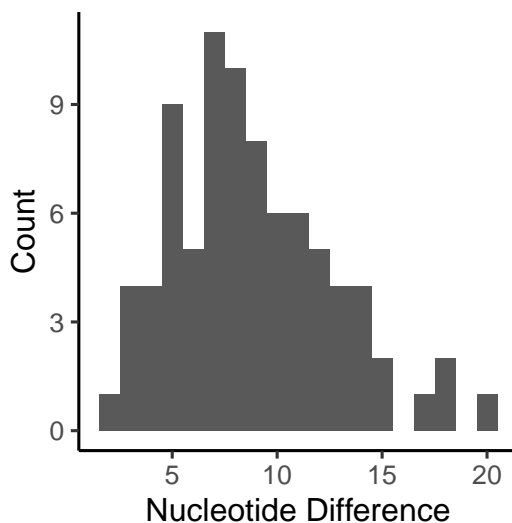
IGHV3-43D*04

533 sequences assigned
60 (11.3%) exact matches, in which:
47 unique CDR3
6 unique J



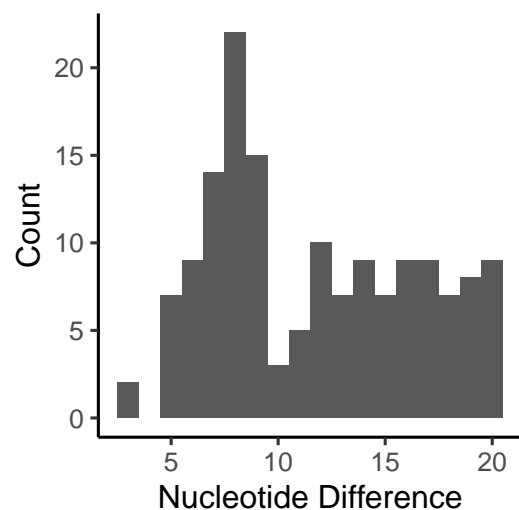
IGHV4-28*03

90 sequences assigned
No exact matches.



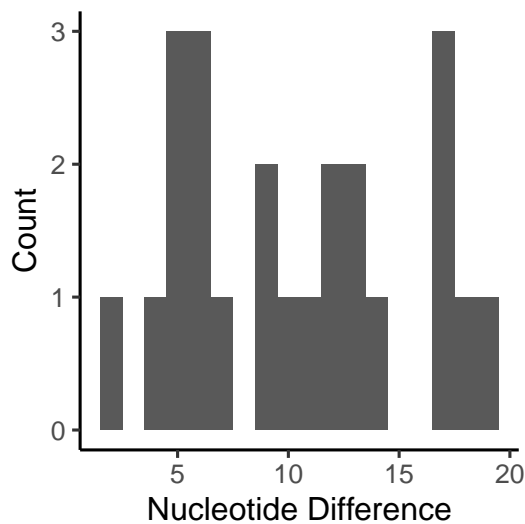
IGHV4-30-2*03

198 sequences assigned
No exact matches.



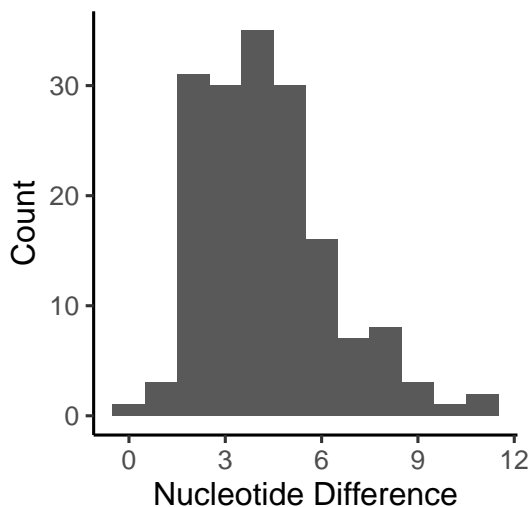
IGHV3-NL1*01

27 sequences assigned
No exact matches.



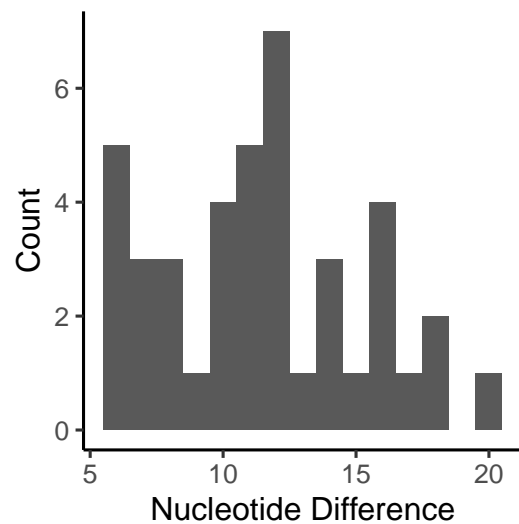
IGHV4-28*02_05

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



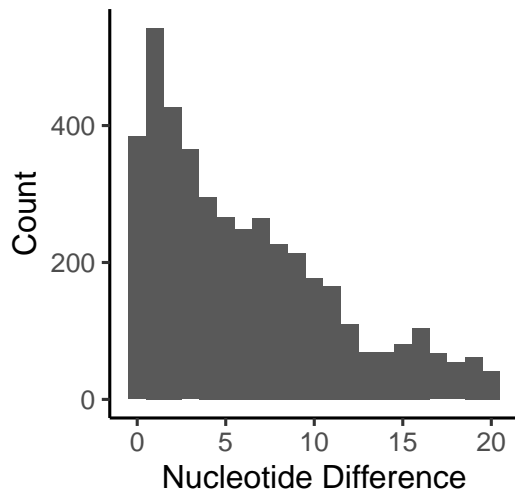
IGHV4-30-4*08

42 sequences assigned
No exact matches.



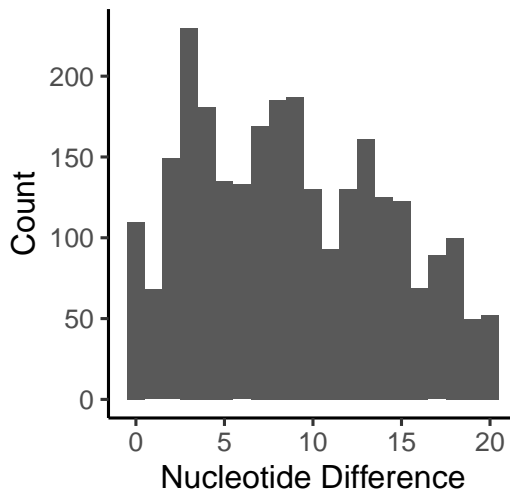
IGHV4-31*02_C198T

4443 sequences assigned
384 (8.6%) exact matches, in which:
275 unique CDR3
7 unique J



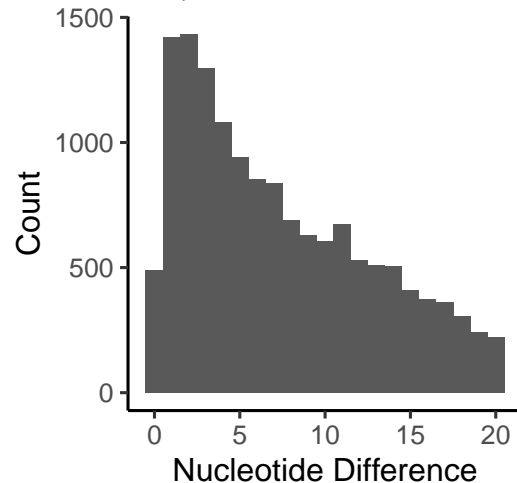
IGHV4-38-2*02

2976 sequences assigned
110 (3.7%) exact matches, in which:
103 unique CDR3
7 unique J



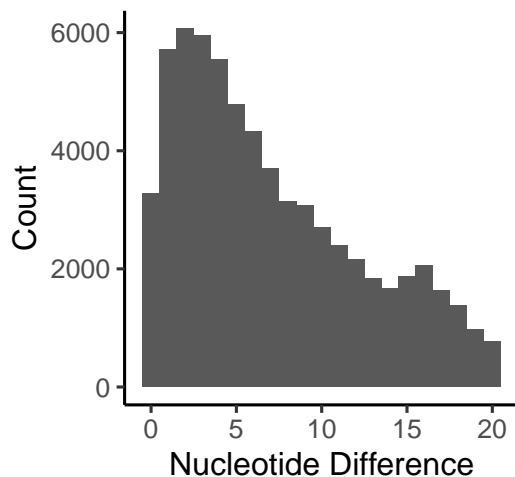
IGHV4-59*12

15358 sequences assigned
490 (3.2%) exact matches, in which:
446 unique CDR3
7 unique J



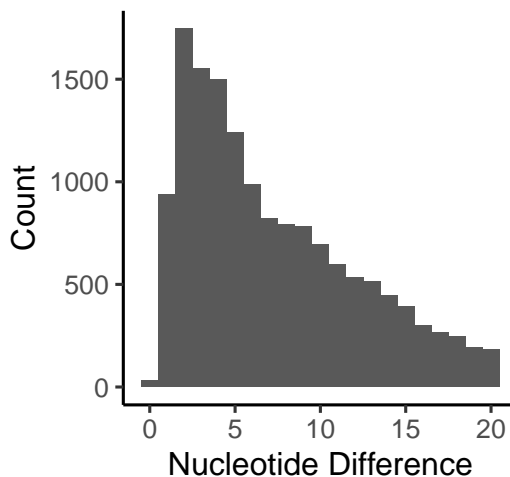
IGHV4-34*01_02

66829 sequences assigned
3273 (4.9%) exact matches, in which:
2201 unique CDR3
7 unique J



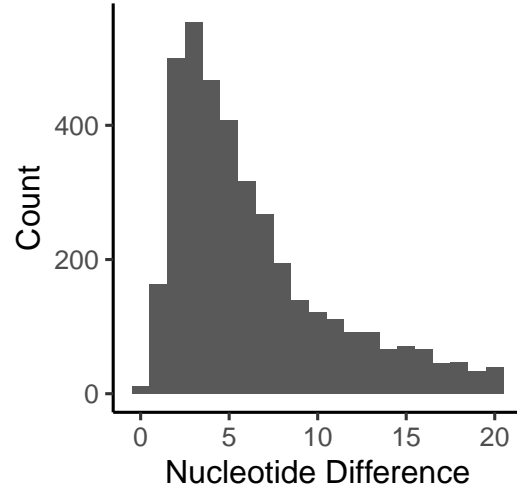
IGHV4-39*07

15593 sequences assigned
32 (0.2%) exact matches, in which:
30 unique CDR3
6 unique J



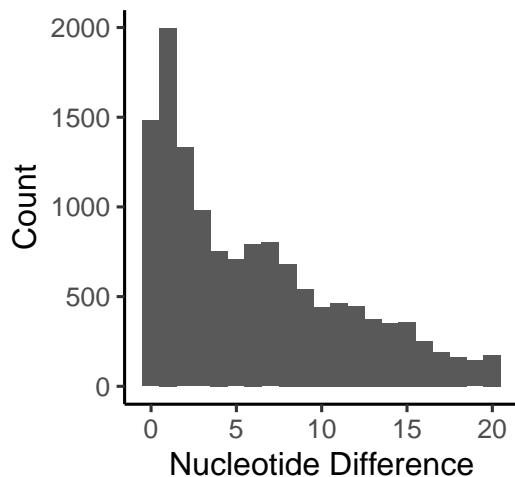
IGHV4-61*01

3893 sequences assigned
11 (0.3%) exact matches, in which:
11 unique CDR3
4 unique J



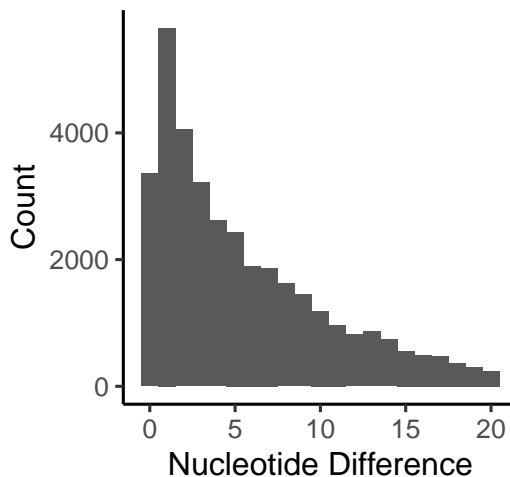
IGHV4-38-2*01

14091 sequences assigned
1481 (10.5%) exact matches, in which:
1073 unique CDR3
7 unique J



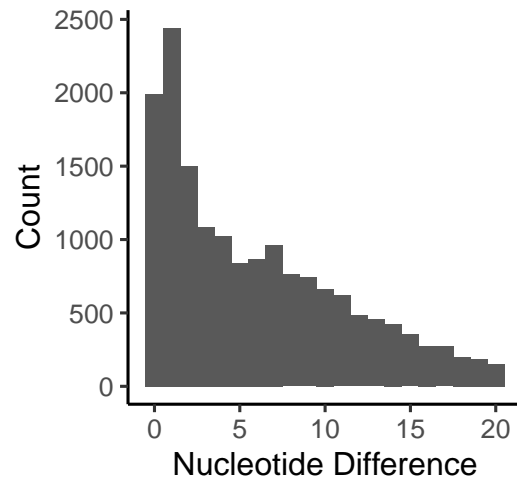
IGHV4-59*08

36199 sequences assigned
3361 (9.3%) exact matches, in which:
2303 unique CDR3
7 unique J



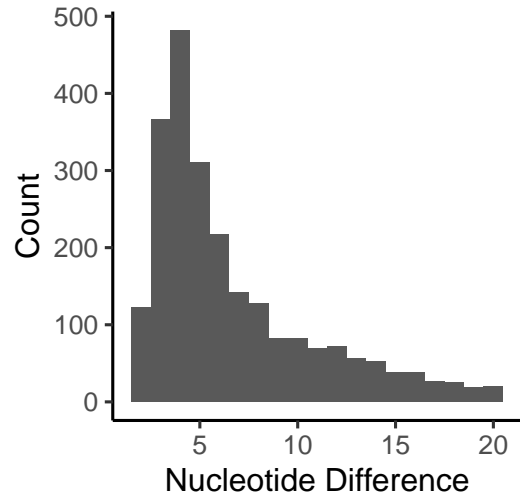
IGHV4-61*02

16908 sequences assigned
1991 (11.8%) exact matches, in which:
1466 unique CDR3
7 unique J



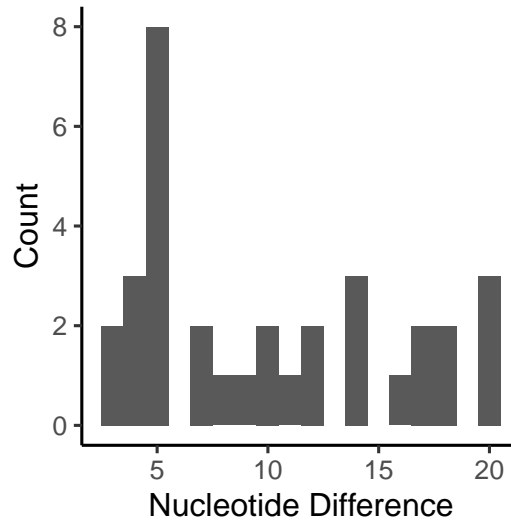
IGHV4–61*05

2407 sequences assigned
No exact matches.



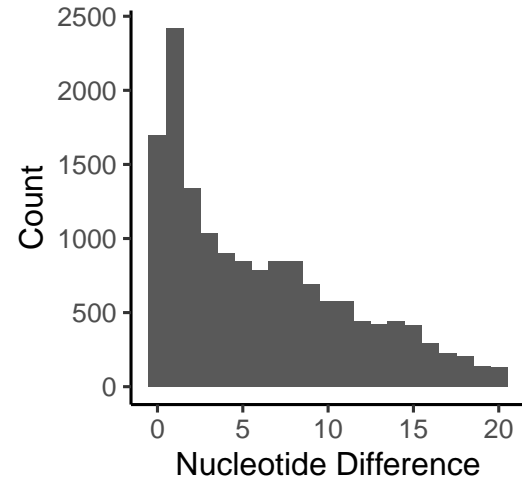
IGHV4/OR15–8*01

50 sequences assigned
No exact matches.



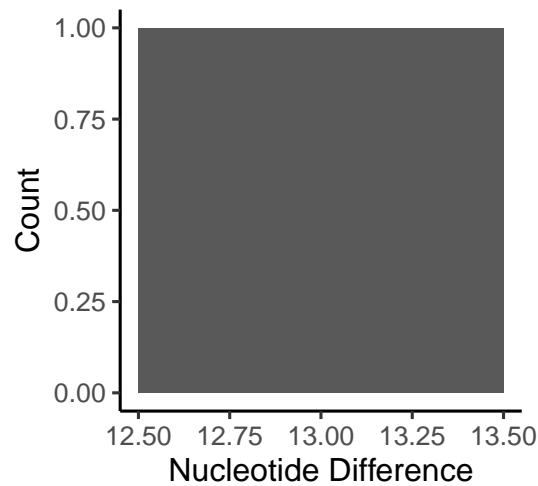
IGHV5–51*01_03

16040 sequences assigned
1700 (10.6%) exact matches, in which:
1235 unique CDR3
7 unique J



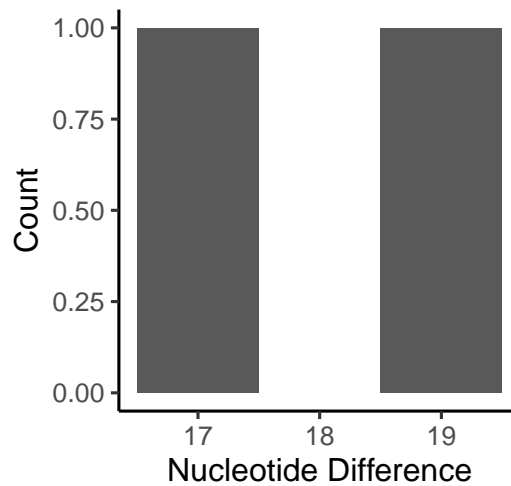
IGHV1/OR15–2*01

1 sequences assigned
No exact matches.



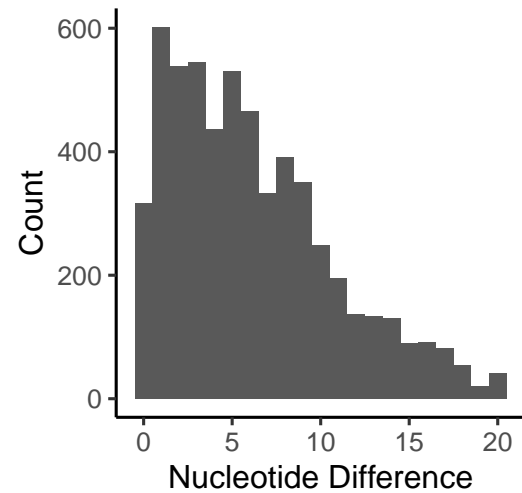
IGHV4/OR15–8*02

3 sequences assigned
No exact matches.



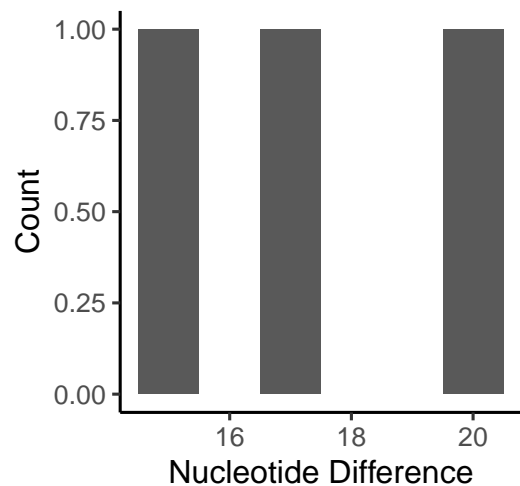
IGHV6–1*01_02

5950 sequences assigned
316 (5.3%) exact matches, in which:
234 unique CDR3
7 unique J



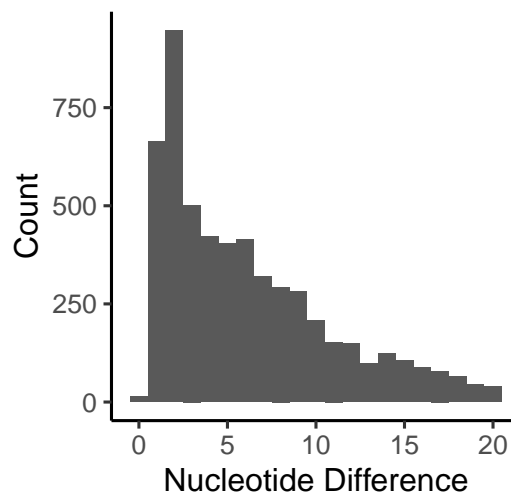
IGHV1/OR15–2*02_03

4 sequences assigned
No exact matches.

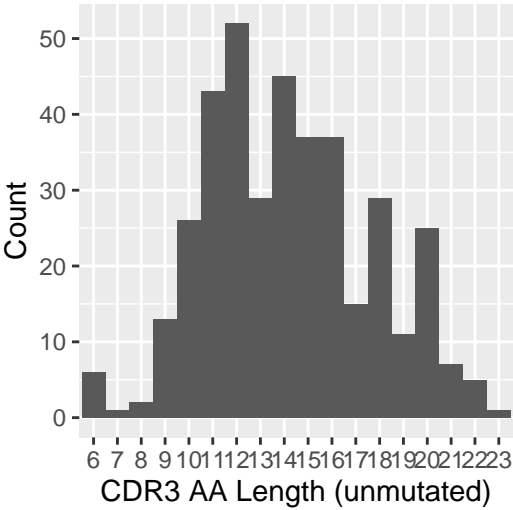


IGHV5–51*07

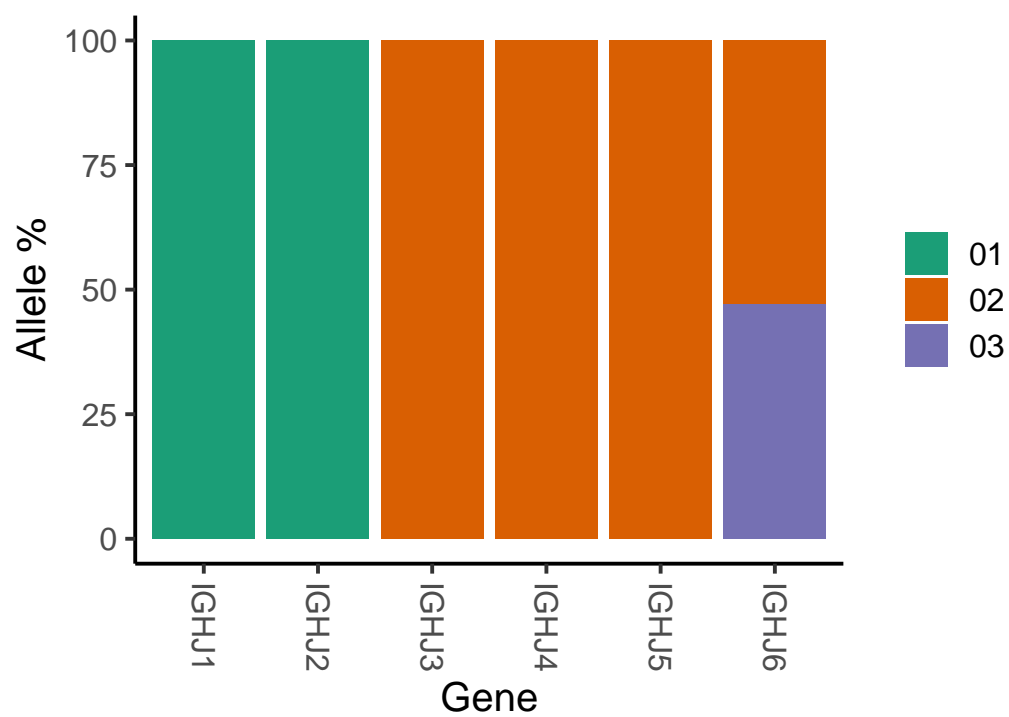
5578 sequences assigned
14 (0.3%) exact matches, in which:
14 unique CDR3
4 unique J



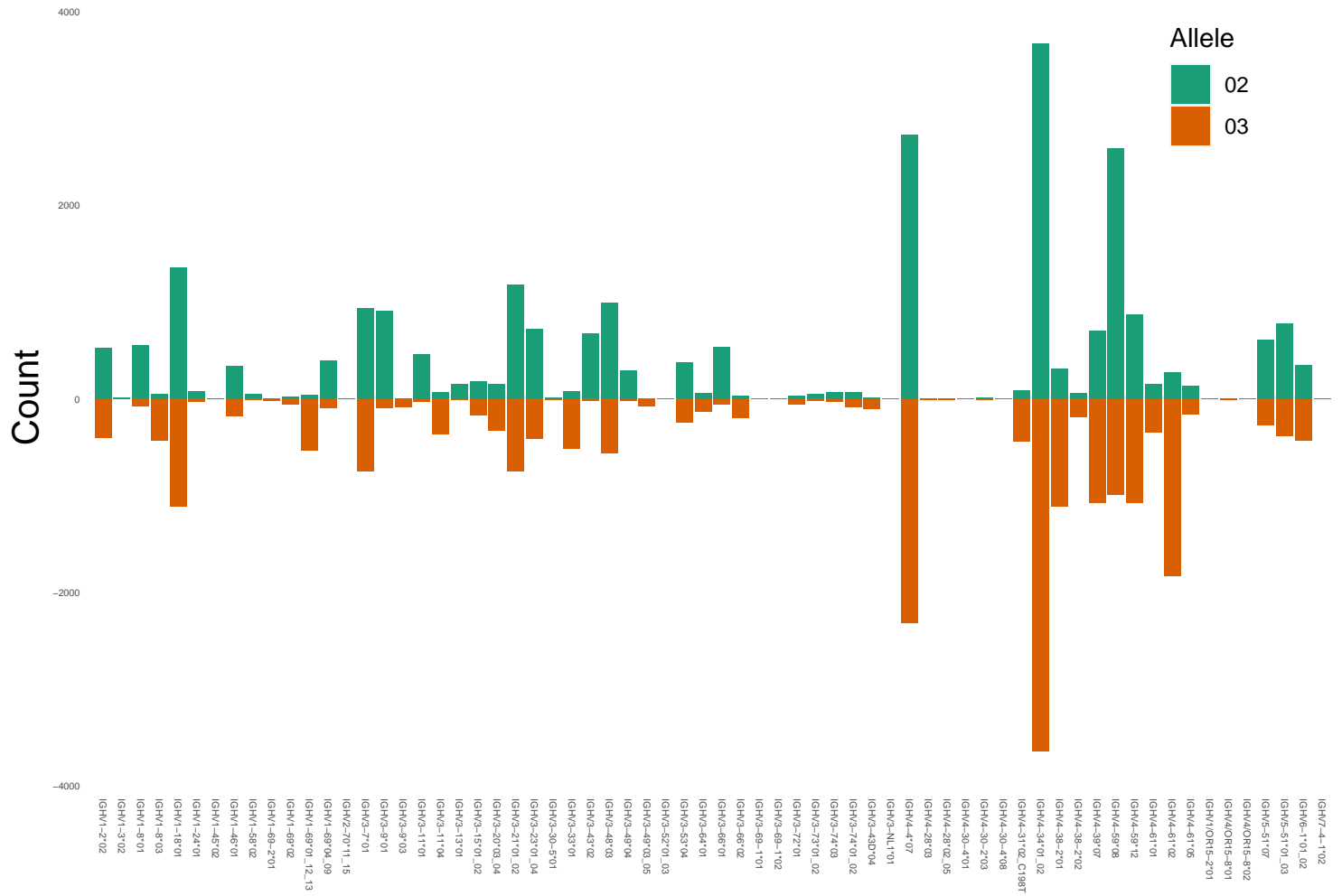
IGHV4-31*02_C198T



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.