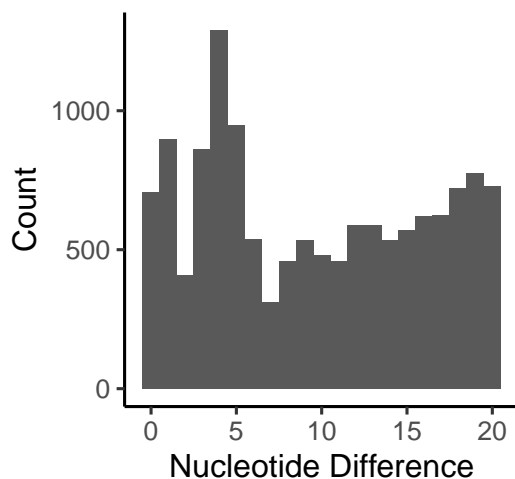


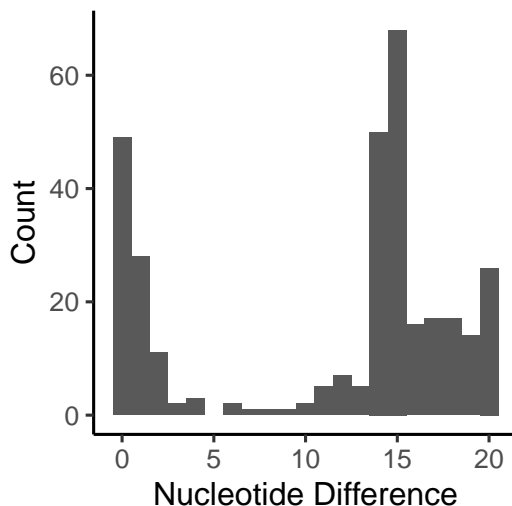
IGHV1-2*02

19462 sequences assigned
708 (3.6%) exact matches, in which:
521 unique CDR3
7 unique J



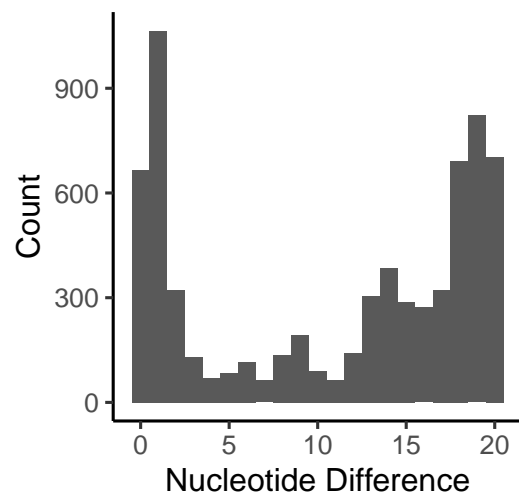
IGHV1-3*01_05

969 sequences assigned
49 (5.1%) exact matches, in which:
38 unique CDR3
5 unique J



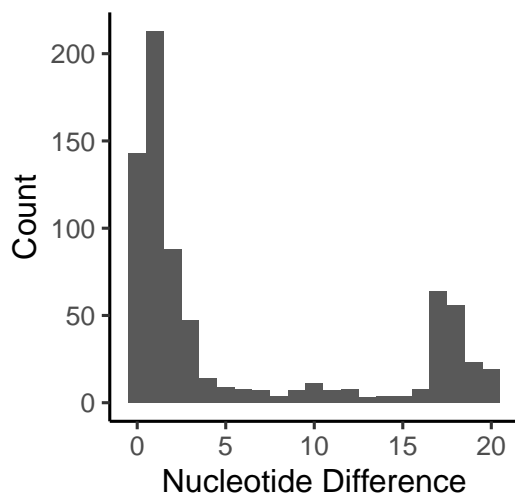
IGHV1-18*01

20131 sequences assigned
666 (3.3%) exact matches, in which:
483 unique CDR3
5 unique J



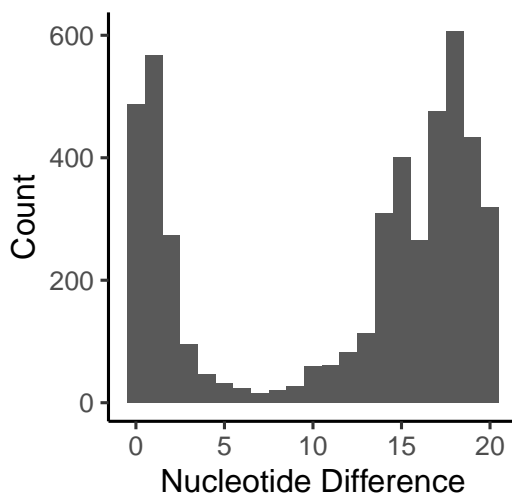
IGHV1-2*04

931 sequences assigned
143 (15.4%) exact matches, in which:
114 unique CDR3
5 unique J



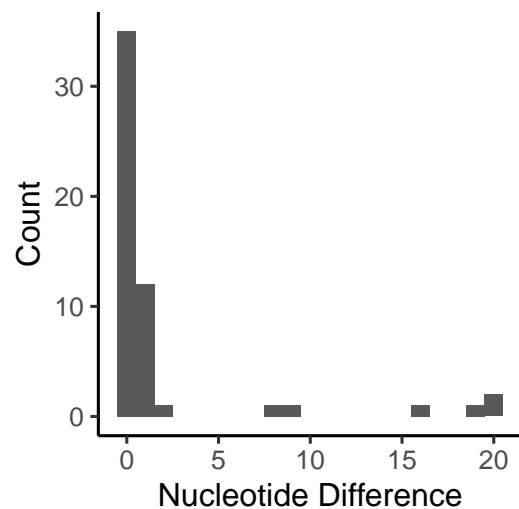
IGHV1-8*01

11626 sequences assigned
487 (4.2%) exact matches, in which:
374 unique CDR3
6 unique J



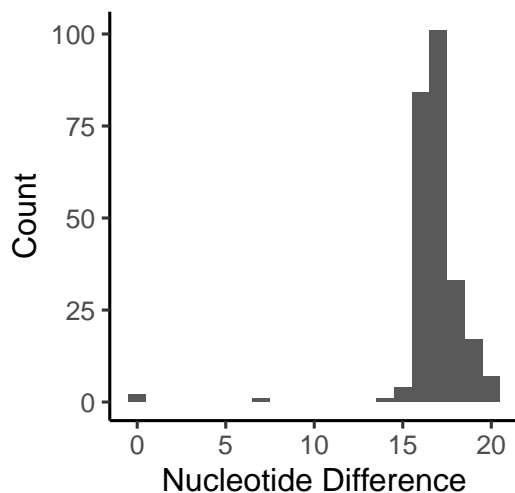
IGHV1-24*01

241 sequences assigned
35 (14.5%) exact matches, in which:
29 unique CDR3
4 unique J



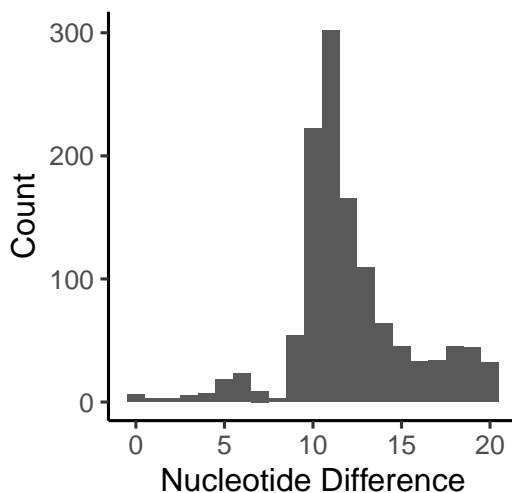
IGHV1-3*04

298 sequences assigned
2 (0.7%) exact matches, in which:
1 unique CDR3
1 unique J



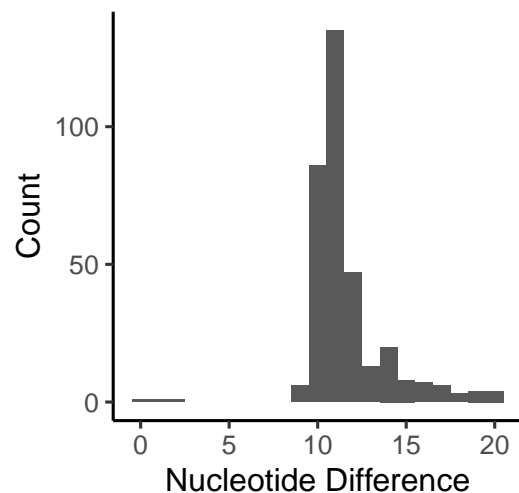
IGHV1-8*02

3264 sequences assigned
6 (0.2%) exact matches, in which:
6 unique CDR3
4 unique J



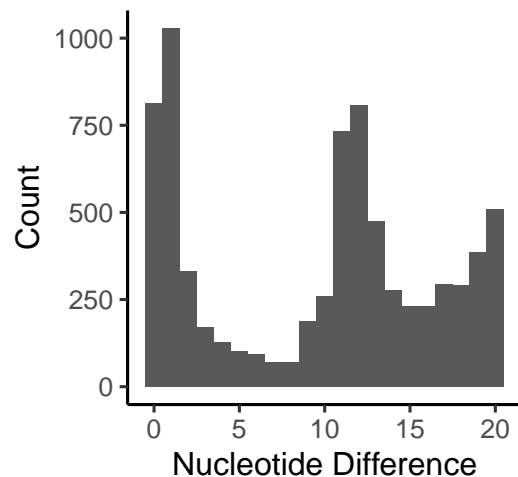
IGHV1-45*02

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



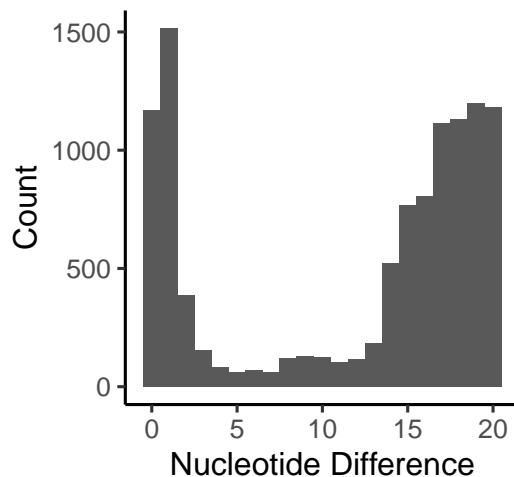
IGHV1-46*01

14736 sequences assigned
813 (5.5%) exact matches, in which:
598 unique CDR3
7 unique J



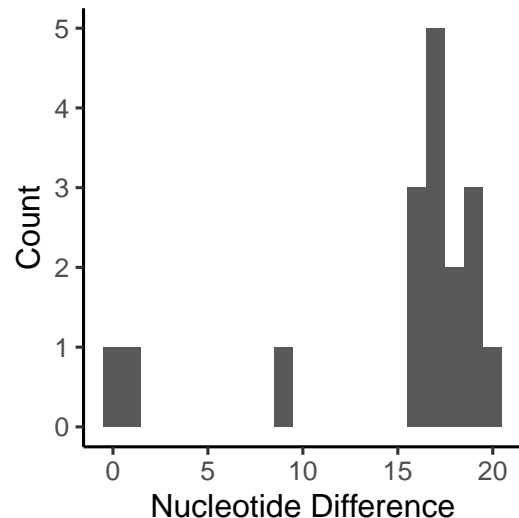
IGHV1-69*06_14

24050 sequences assigned
1170 (4.9%) exact matches, in which:
917 unique CDR3
7 unique J



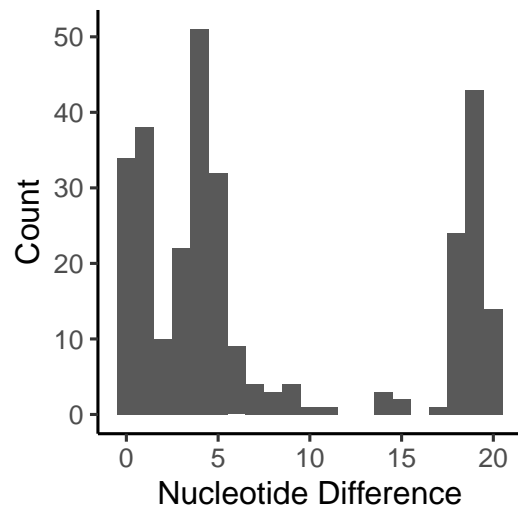
IGHV2-26*01

34 sequences assigned
1 (2.9%) exact matches, in which:
1 unique CDR3
1 unique J



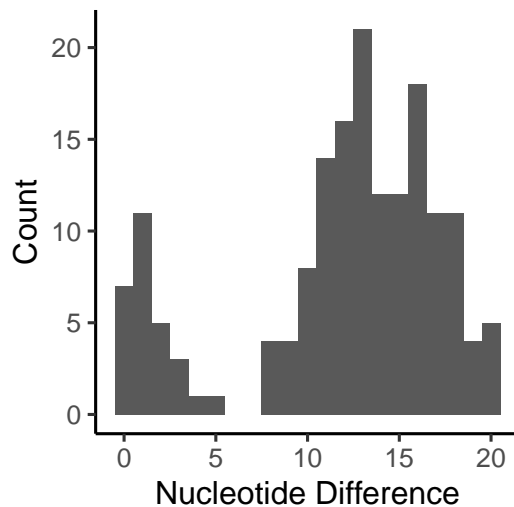
IGHV1-58*01_03

322 sequences assigned
34 (10.6%) exact matches, in which:
26 unique CDR3
3 unique J



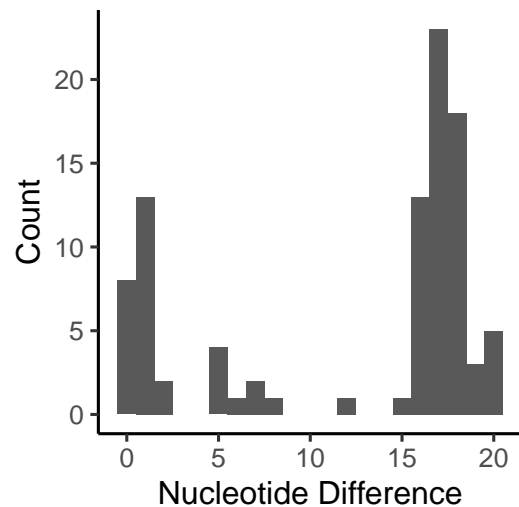
IGHV2-5*01

227 sequences assigned
7 (3.1%) exact matches, in which:
5 unique CDR3
2 unique J



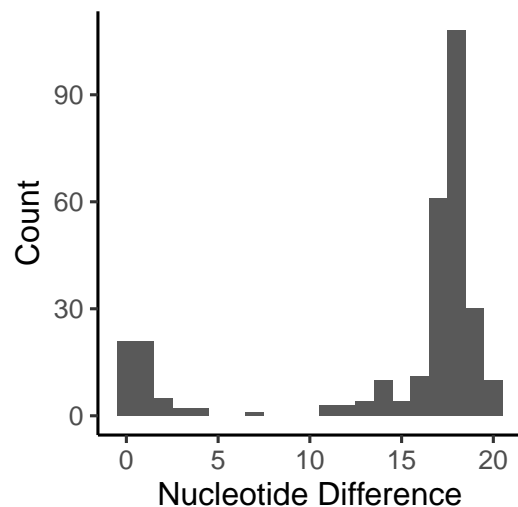
IGHV2-70*01

136 sequences assigned
8 (5.9%) exact matches, in which:
6 unique CDR3
3 unique J



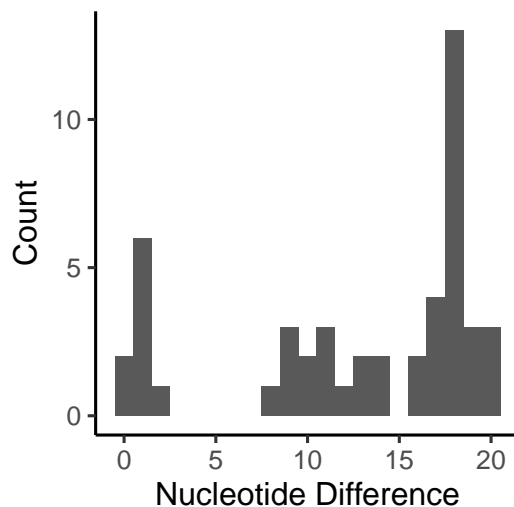
IGHV1-69-2*01

407 sequences assigned
21 (5.2%) exact matches, in which:
17 unique CDR3
3 unique J



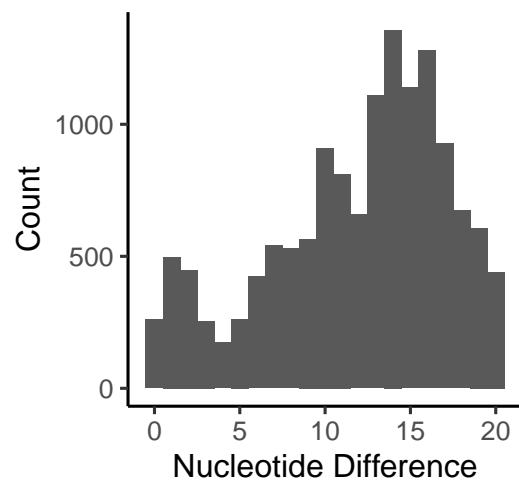
IGHV2-5*02

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



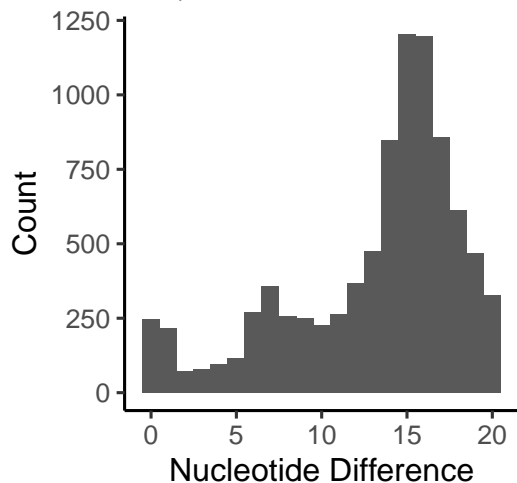
IGHV3-7*01

17096 sequences assigned
261 (1.5%) exact matches, in which:
211 unique CDR3
5 unique J



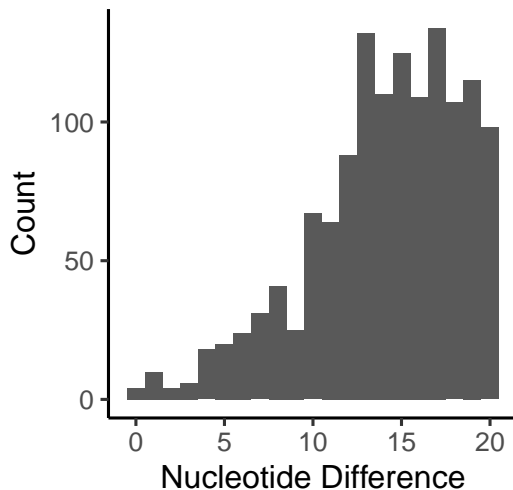
IGHV3-7*03

11304 sequences assigned
248 (2.2%) exact matches, in which:
202 unique CDR3
5 unique J



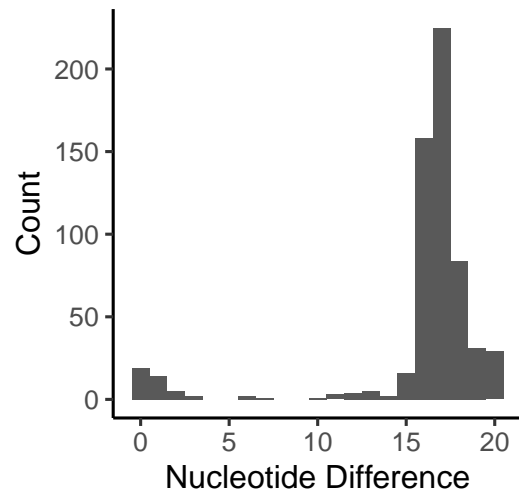
IGHV3-11*04

2787 sequences assigned
4 (0.1%) exact matches, in which:
4 unique CDR3
2 unique J



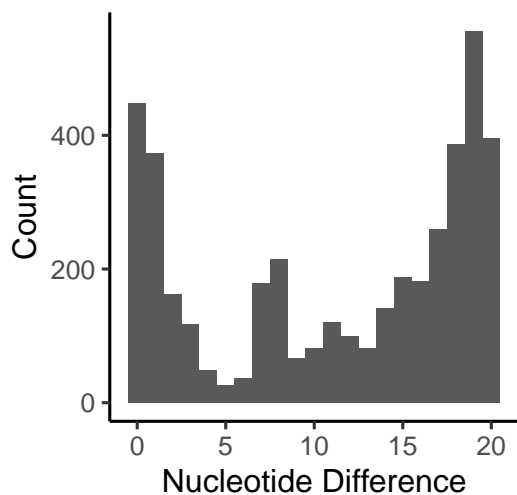
IGHV3-20*01_02

724 sequences assigned
19 (2.6%) exact matches, in which:
15 unique CDR3
4 unique J



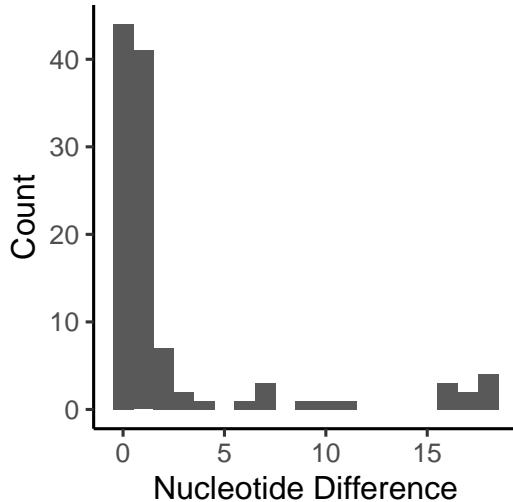
IGHV3-9*01

8945 sequences assigned
448 (5%) exact matches, in which:
330 unique CDR3
7 unique J



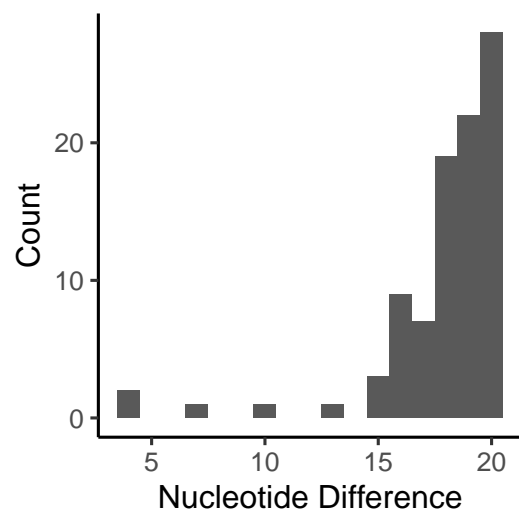
IGHV3-13*01

664 sequences assigned
44 (6.6%) exact matches, in which:
32 unique CDR3
3 unique J



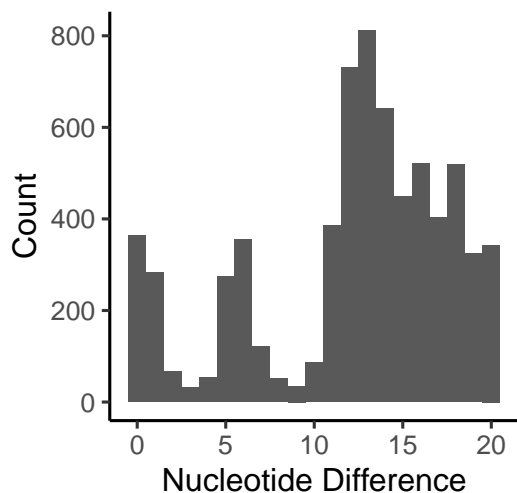
IGHV3-20*03_04

395 sequences assigned
No exact matches.



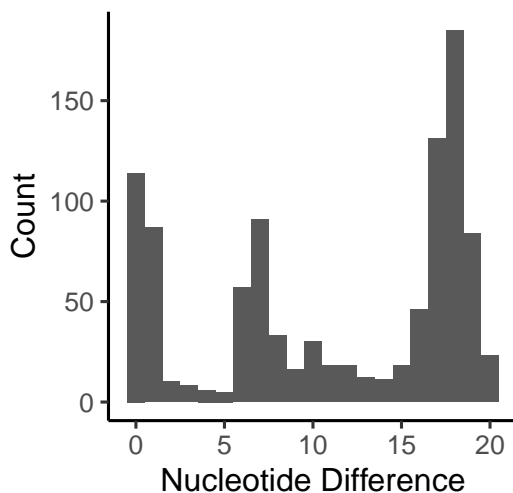
IGHV3-11*01

17925 sequences assigned
363 (2%) exact matches, in which:
278 unique CDR3
5 unique J



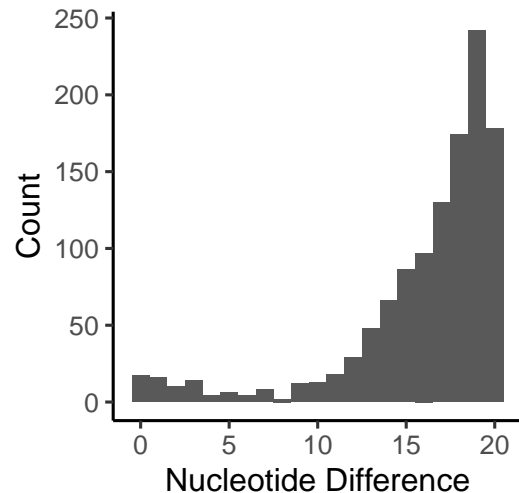
IGHV3-15*01_02

2023 sequences assigned
114 (5.6%) exact matches, in which:
97 unique CDR3
4 unique J



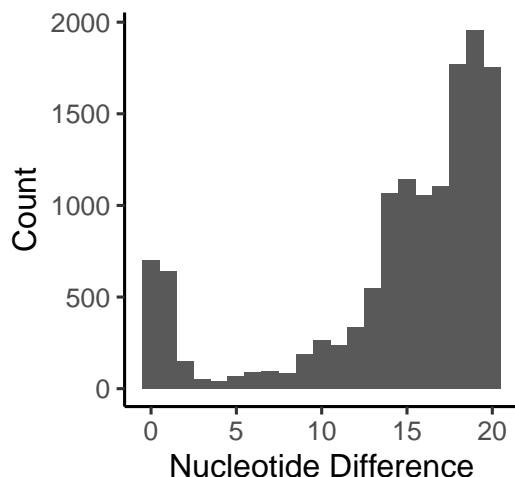
IGHV3-21*04

2919 sequences assigned
17 (0.6%) exact matches, in which:
17 unique CDR3
3 unique J



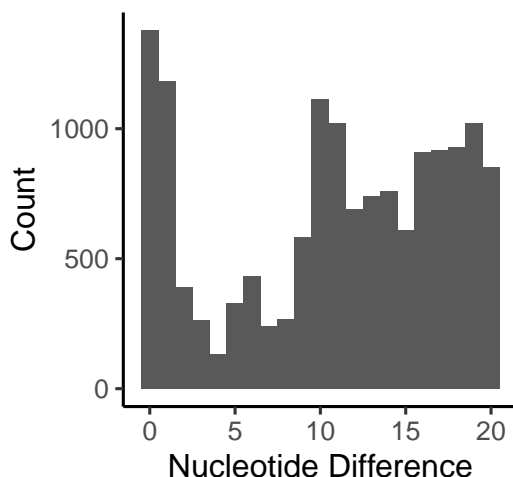
IGHV3-21*01_02

29718 sequences assigned
700 (2.4%) exact matches, in which:
523 unique CDR3
6 unique J



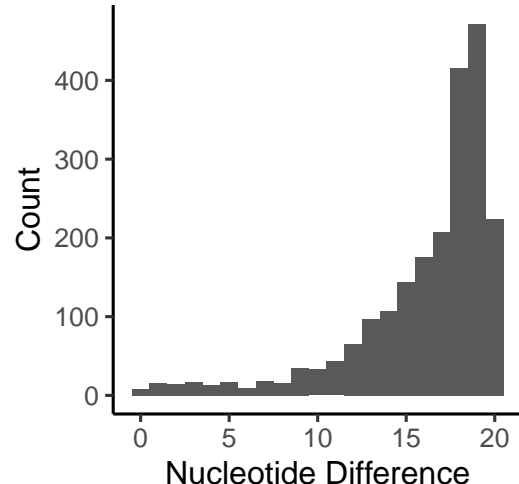
IGHV3-33*01

22867 sequences assigned
1378 (6%) exact matches, in which:
968 unique CDR3
7 unique J



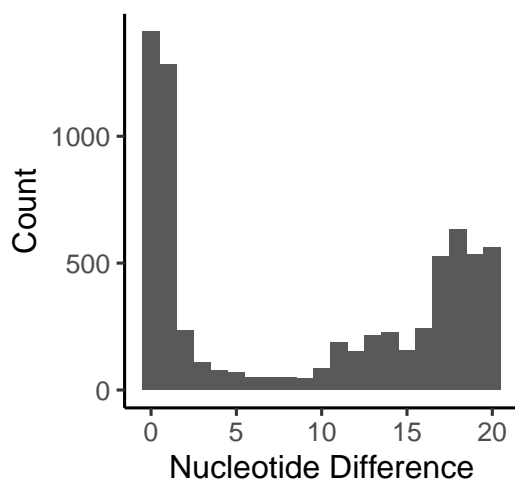
IGHV3-48*01

3934 sequences assigned
8 (0.2%) exact matches, in which:
8 unique CDR3
2 unique J



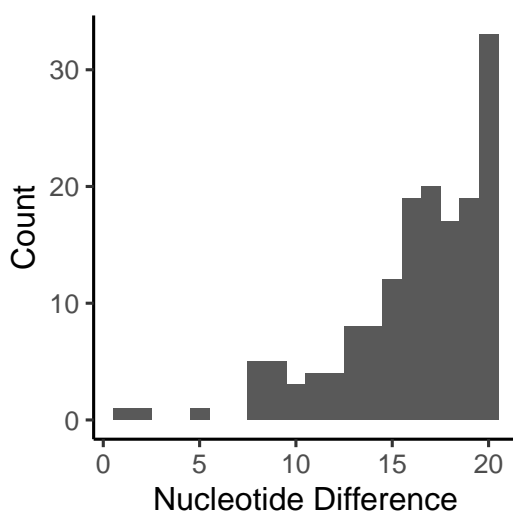
IGHV3-30-3*01

17396 sequences assigned
1412 (8.1%) exact matches, in which:
1133 unique CDR3
6 unique J



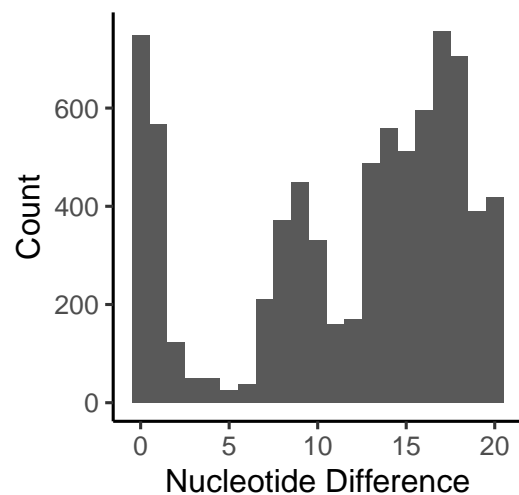
IGHV3-33*05

652 sequences assigned
No exact matches.



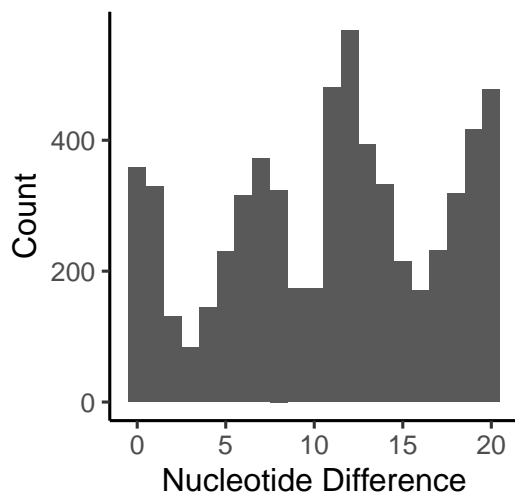
IGHV3-48*02

15257 sequences assigned
749 (4.9%) exact matches, in which:
538 unique CDR3
6 unique J



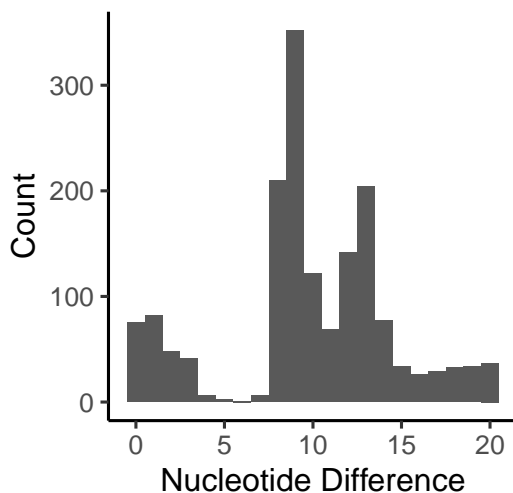
IGHV3-30*03

9545 sequences assigned
358 (3.8%) exact matches, in which:
299 unique CDR3
6 unique J



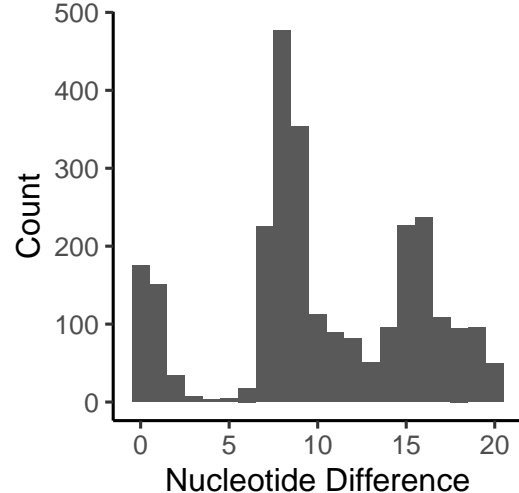
IGHV3-43*01

1940 sequences assigned
75 (3.9%) exact matches, in which:
60 unique CDR3
3 unique J



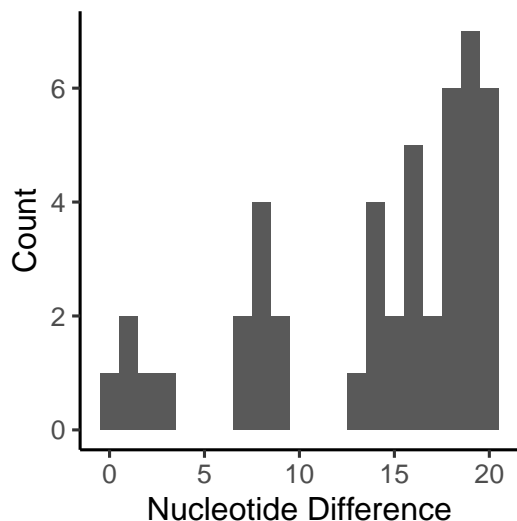
IGHV3-49*03_05

3001 sequences assigned
175 (5.8%) exact matches, in which:
135 unique CDR3
5 unique J



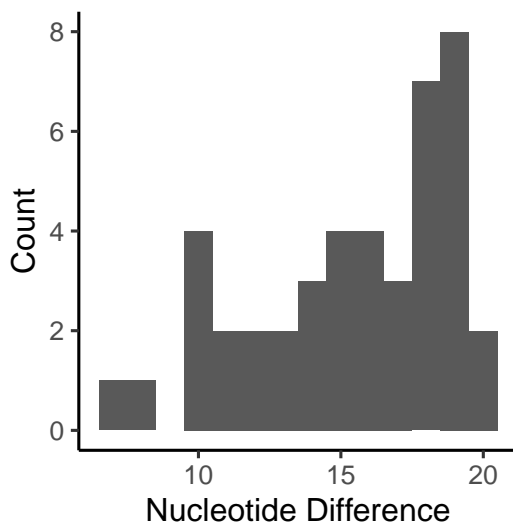
IGHV3-53*05

115 sequences assigned
1 (0.9%) exact matches, in which:
1 unique CDR3
1 unique J



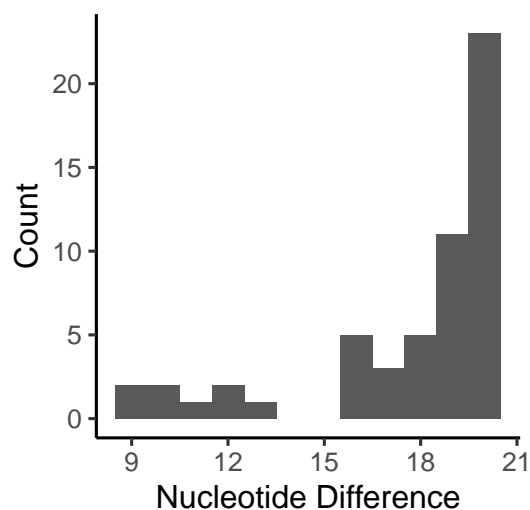
IGHV3-66*02

104 sequences assigned
No exact matches.



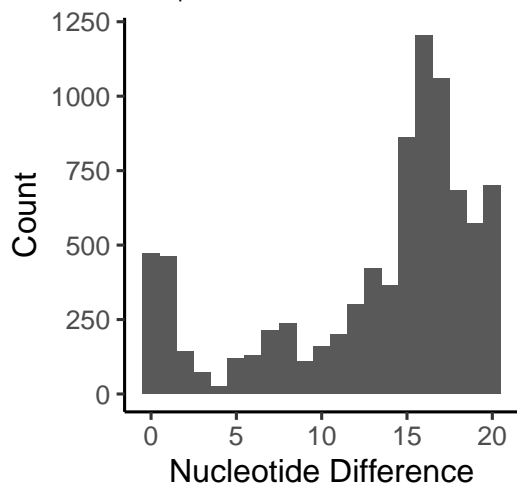
IGHV3-69-1*02

816 sequences assigned
No exact matches.



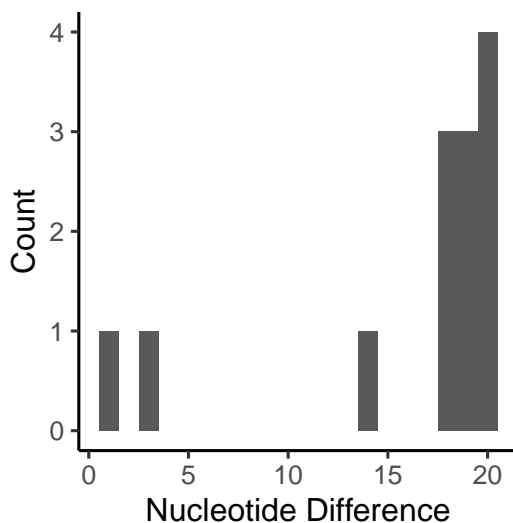
IGHV3-53*01_02

14633 sequences assigned
472 (3.2%) exact matches, in which:
373 unique CDR3
5 unique J



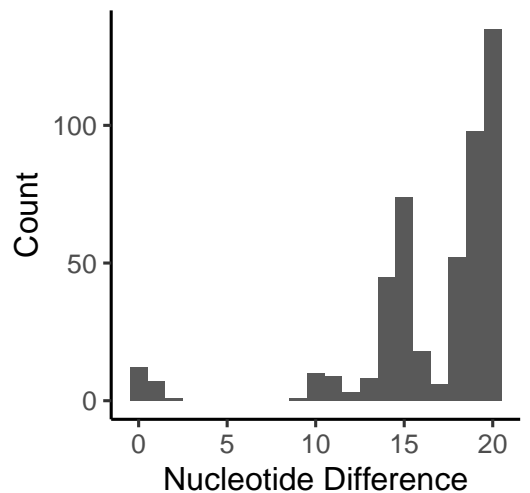
IGHV3-66*03

37 sequences assigned
No exact matches.



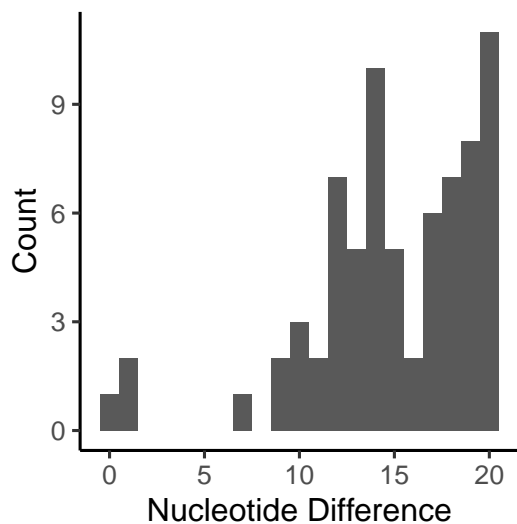
IGHV3-72*01

1201 sequences assigned
12 (1%) exact matches, in which:
12 unique CDR3
3 unique J



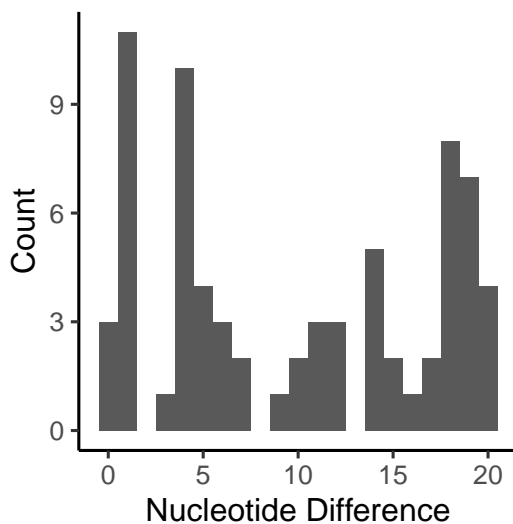
IGHV3-66*01

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



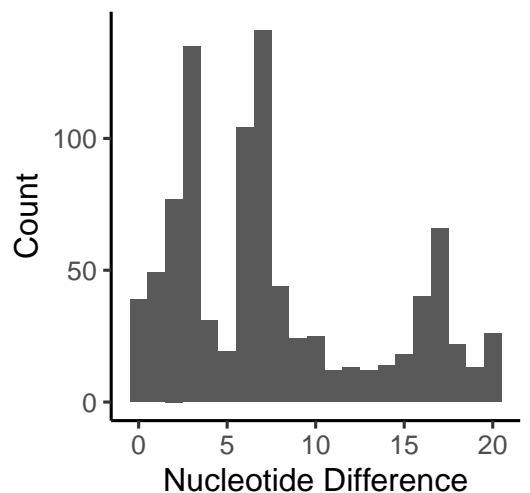
IGHV3-69-1*01

121 sequences assigned
3 (2.5%) exact matches, in which:
2 unique CDR3
1 unique J



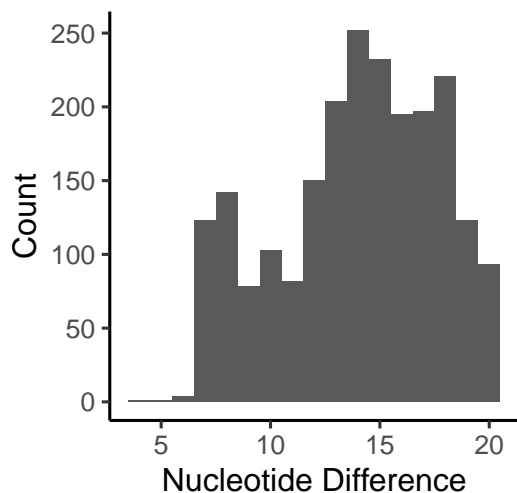
IGHV3-73*01_02

2218 sequences assigned
39 (1.8%) exact matches, in which:
30 unique CDR3
4 unique J



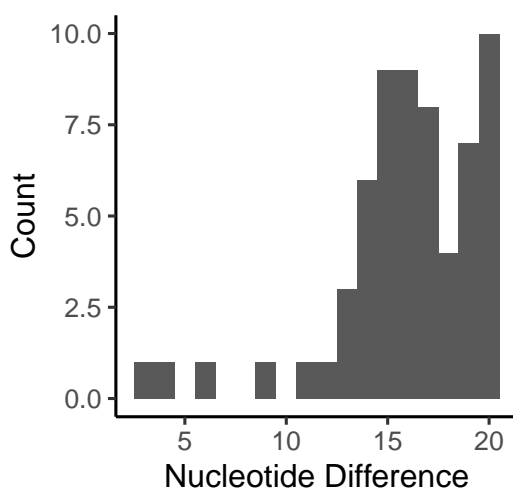
IGHV3-74*03

2687 sequences assigned
No exact matches.



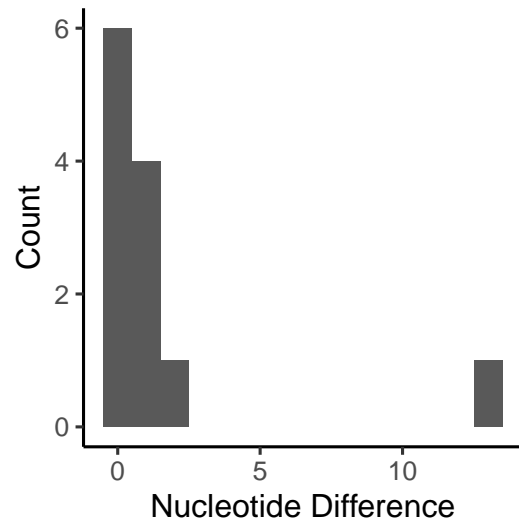
IGHV3-NL1*01

176 sequences assigned
No exact matches.



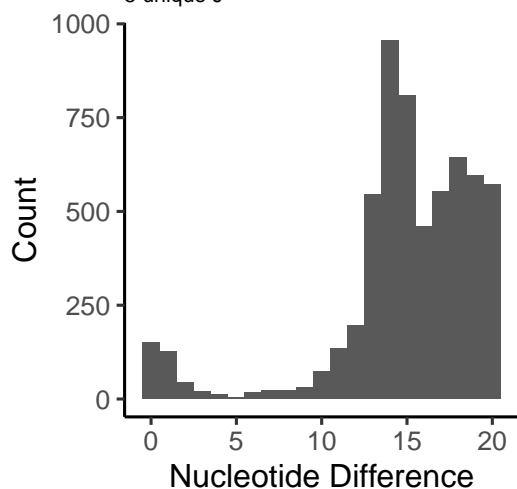
IGHV4-28*01_07

21 sequences assigned
6 (28.6%) exact matches, in which:
3 unique CDR3
1 unique J



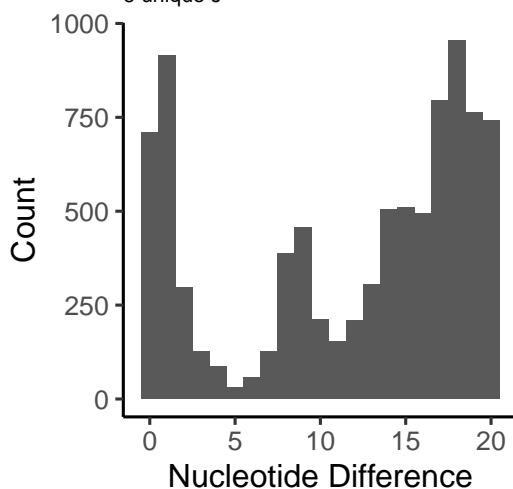
IGHV3-74*01_02

11087 sequences assigned
150 (1.4%) exact matches, in which:
107 unique CDR3
5 unique J



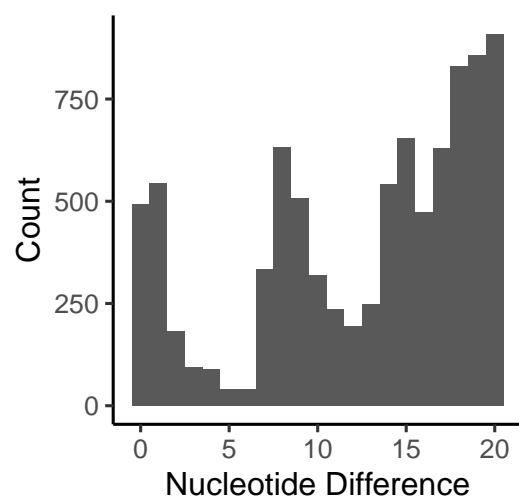
IGHV4-4*07

22927 sequences assigned
709 (3.1%) exact matches, in which:
491 unique CDR3
6 unique J



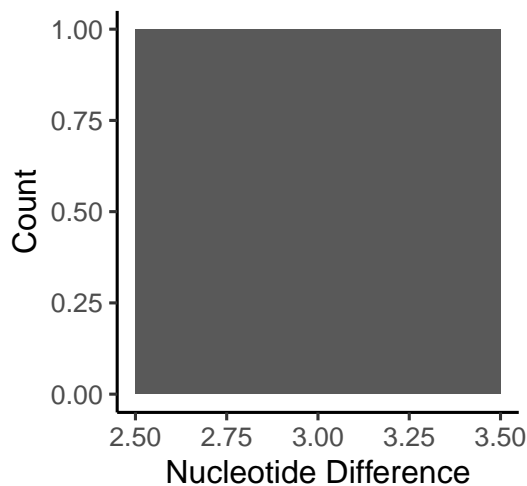
IGHV4-30-2*01

39756 sequences assigned
493 (1.2%) exact matches, in which:
332 unique CDR3
5 unique J



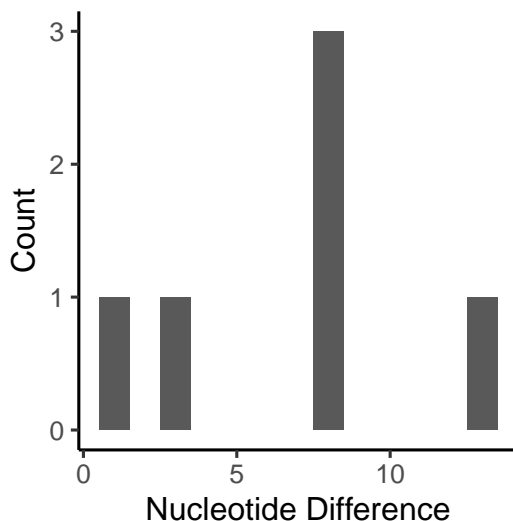
IGHV3-43D*04

21 sequences assigned
No exact matches.



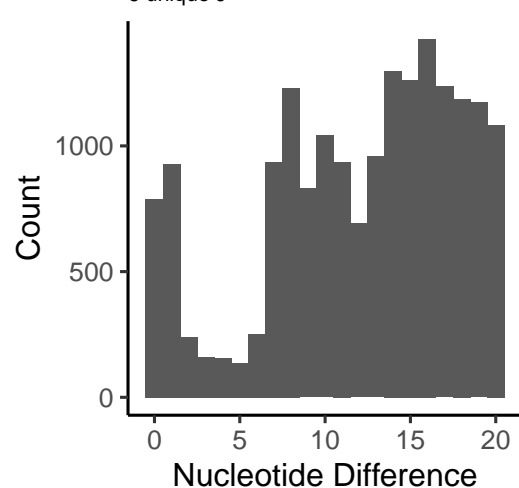
IGHV4-28*03

21 sequences assigned
No exact matches.



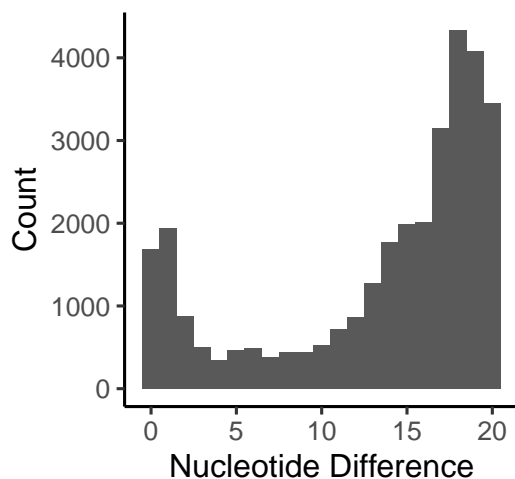
IGHV4-30-4*01

35251 sequences assigned
788 (2.2%) exact matches, in which:
527 unique CDR3
6 unique J



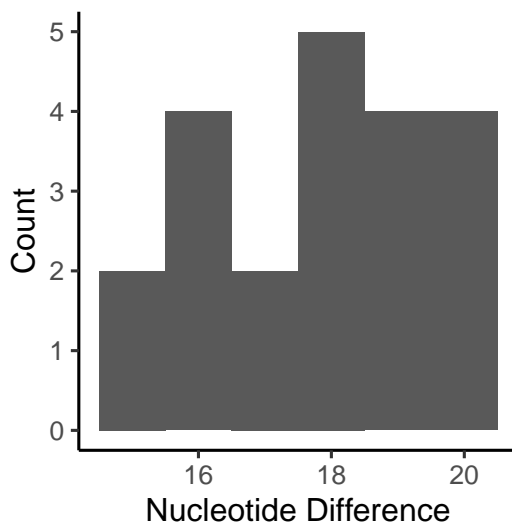
IGHV4-31*03_04

72231 sequences assigned
1688 (2.3%) exact matches, in which:
1144 unique CDR3
6 unique J



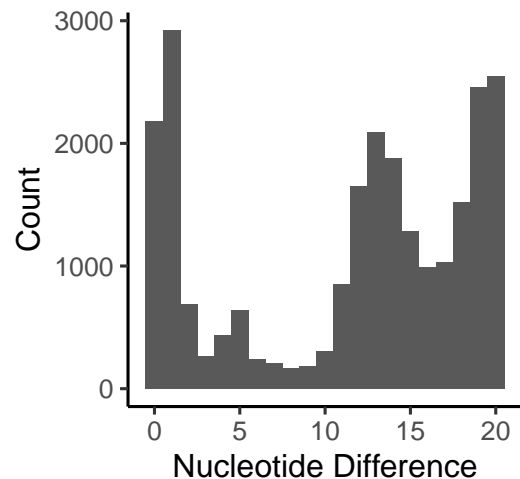
IGHV4-38-2*02

54 sequences assigned
No exact matches.



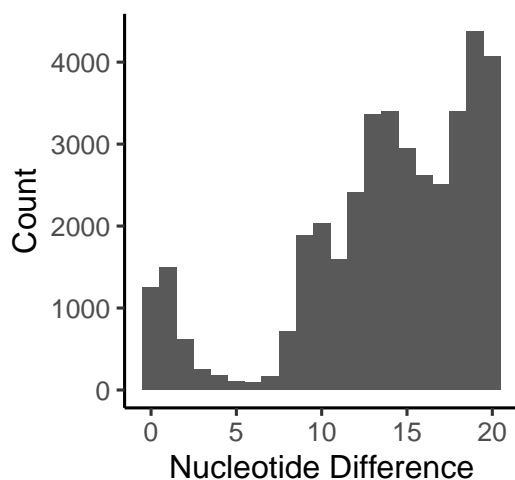
IGHV4-39*01_05

50235 sequences assigned
2178 (4.3%) exact matches, in which:
1405 unique CDR3
7 unique J



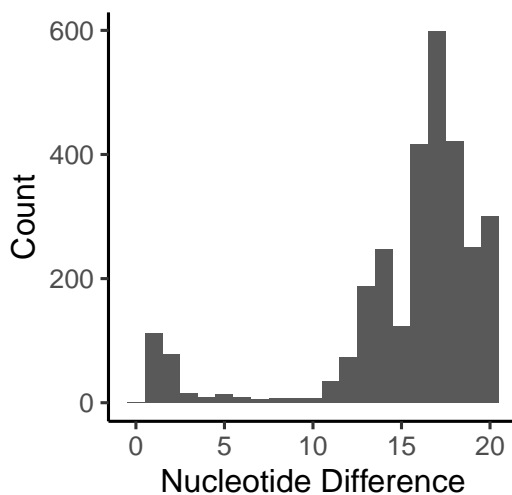
IGHV4-34*01_02

75007 sequences assigned
1249 (1.7%) exact matches, in which:
843 unique CDR3
7 unique J



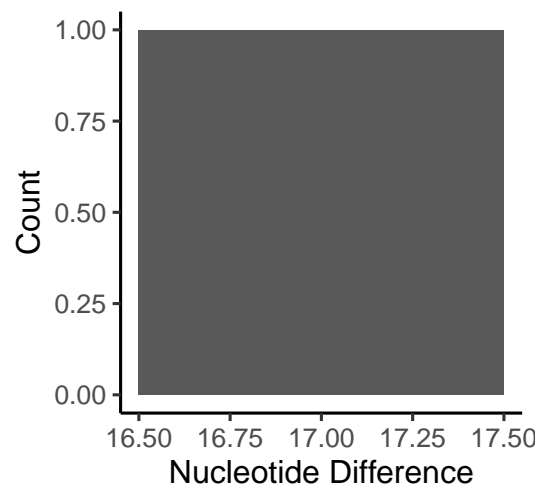
IGHV4-39*02

23238 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



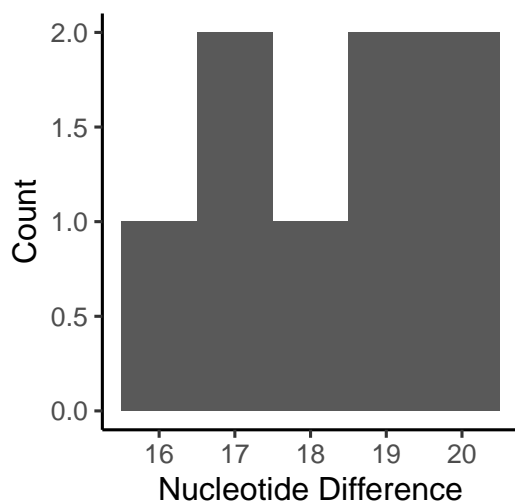
IGHV4-55*02_04_08

28 sequences assigned
No exact matches.



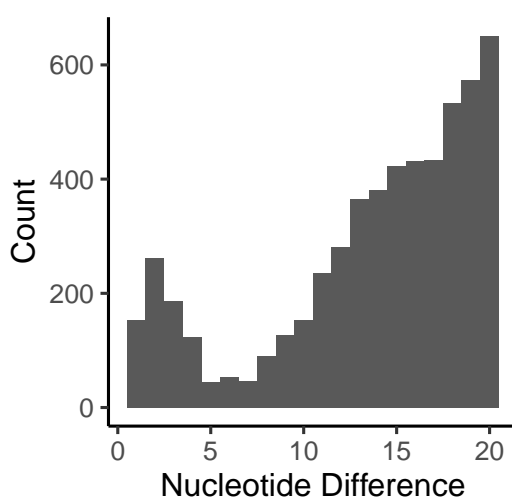
IGHV4-38-2*01

37 sequences assigned
No exact matches.



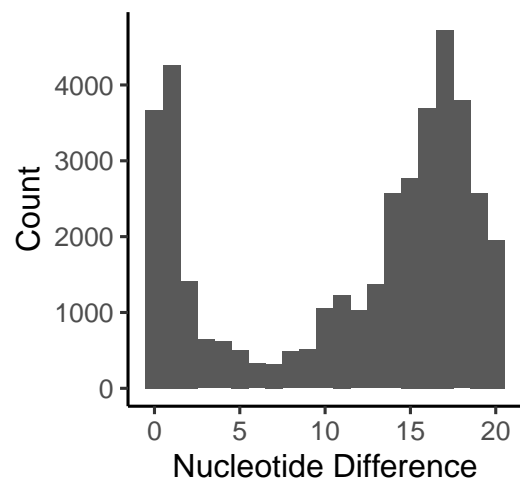
IGHV4-39*07

13948 sequences assigned
No exact matches.



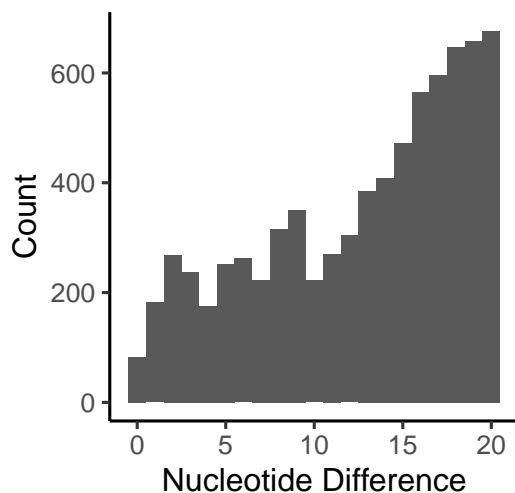
IGHV4-59*01_07

71970 sequences assigned
3673 (5.1%) exact matches, in which:
2304 unique CDR3
7 unique J



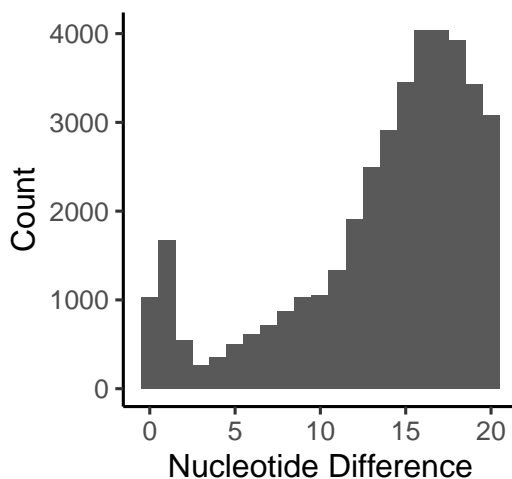
IGHV4–59*12

14034 sequences assigned
82 (0.6%) exact matches, in which:
75 unique CDR3
6 unique J



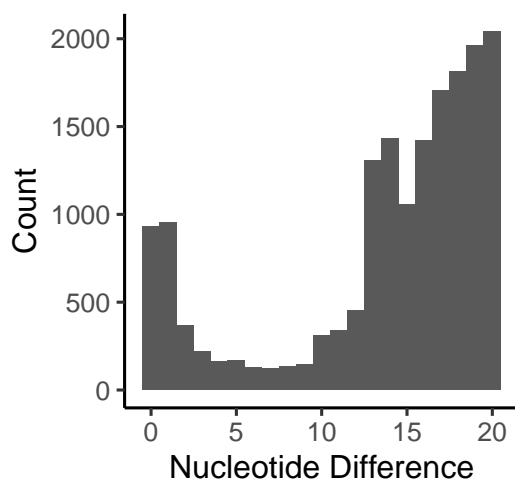
IGHV5–51*01_03

64520 sequences assigned
1030 (1.6%) exact matches, in which:
723 unique CDR3
6 unique J



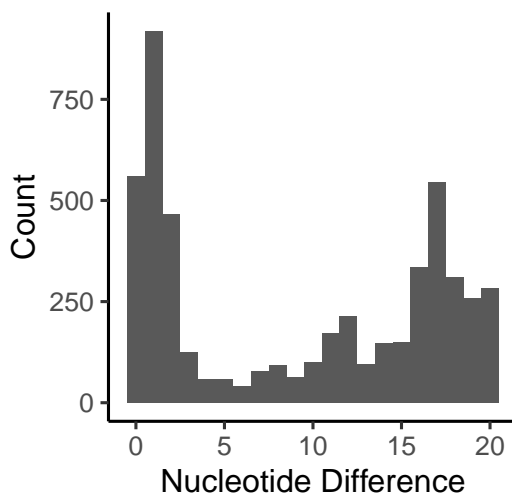
IGHV4–61*01

43143 sequences assigned
932 (2.2%) exact matches, in which:
646 unique CDR3
7 unique J



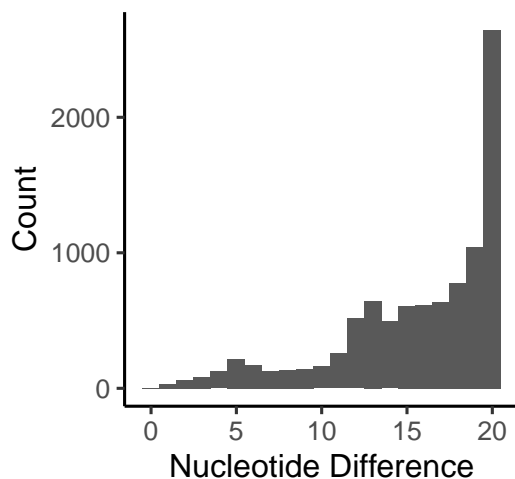
IGHV6–1*01_02

5461 sequences assigned
559 (10.2%) exact matches, in which:
379 unique CDR3
5 unique J



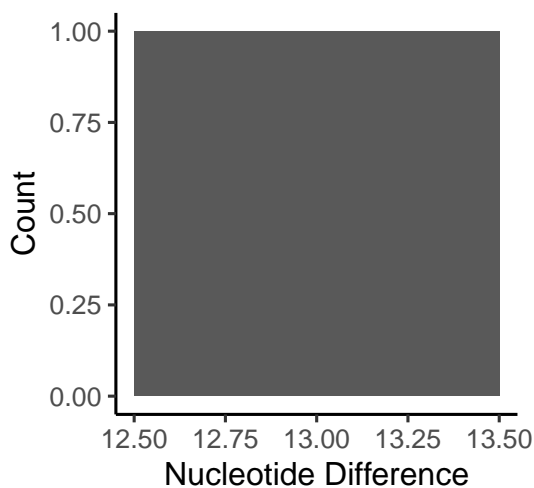
IGHV4–61*08

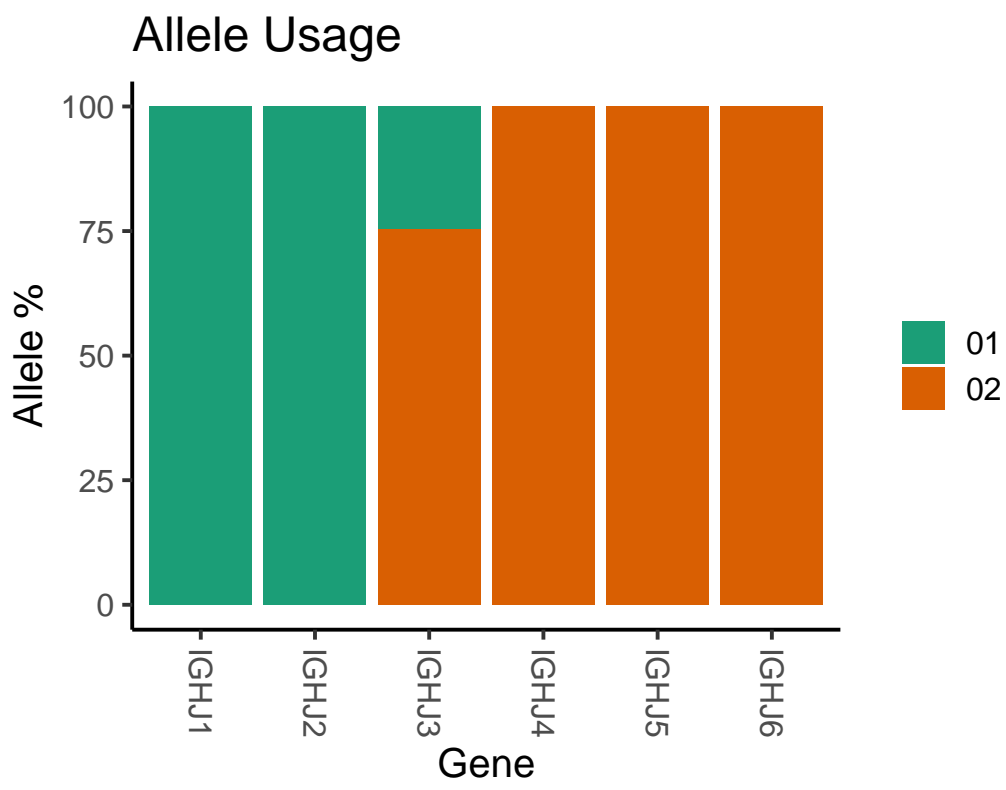
74937 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



IGHV7–4–1*02

219 sequences assigned
No exact matches.





Warning – no inferred sequences found.

Novel sequence(s) IGHV4-59*02_G88A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning – no inferred sequences found.