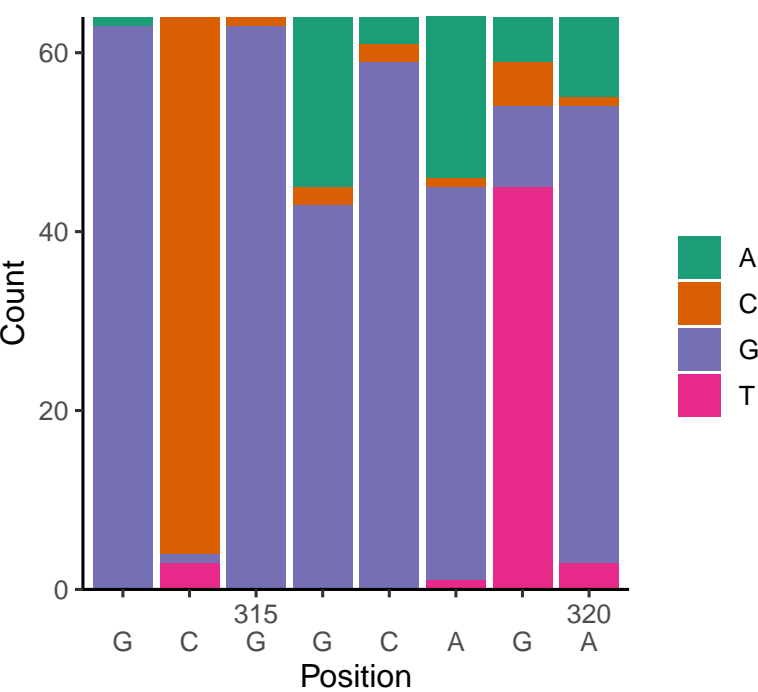
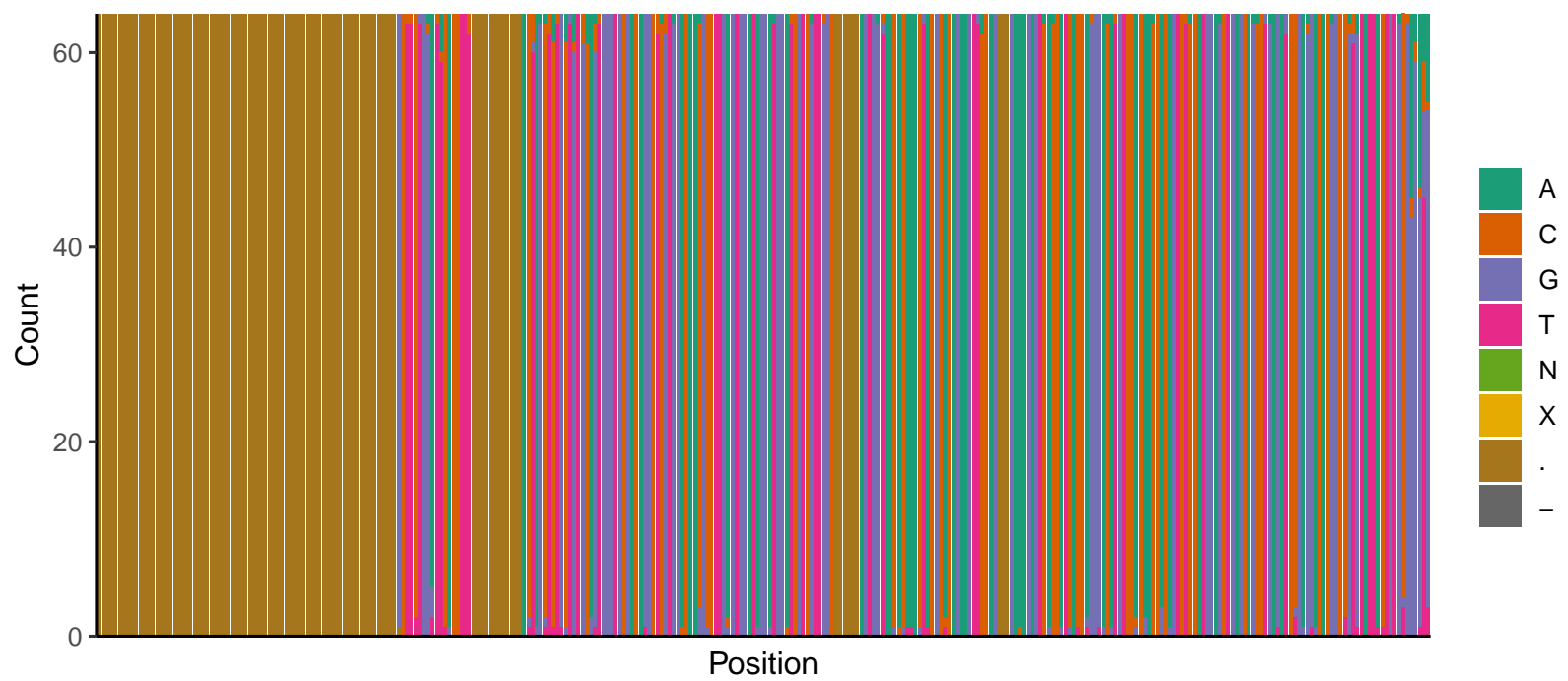


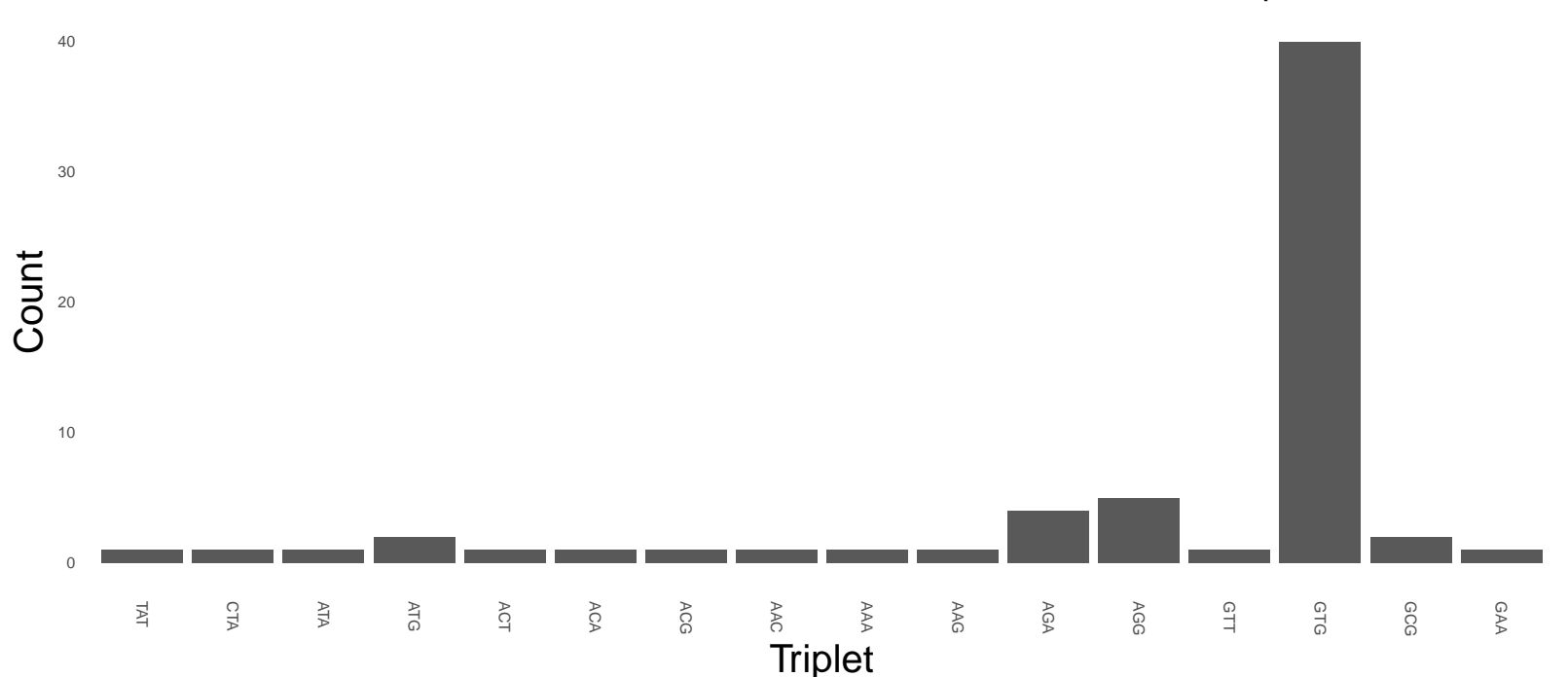
Gene IGHV1-58*01_03_T234C_G254C_C260T_A263C



Gene IGHV1-58*01_03_T234C_G254C_C260T_A263C

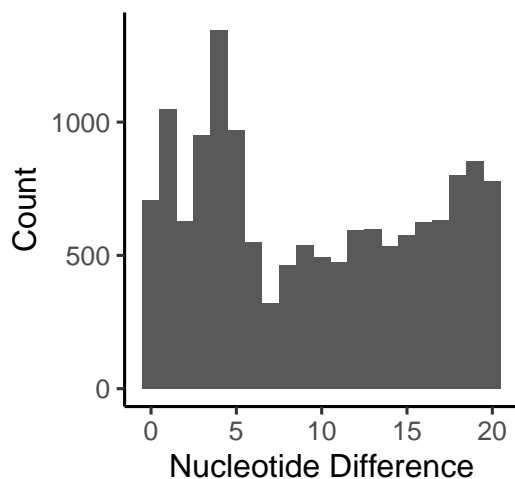


IGHV1-58*01_03_T234C_G254C_C260T_A263C- Final 3 nucleotides as a triplet



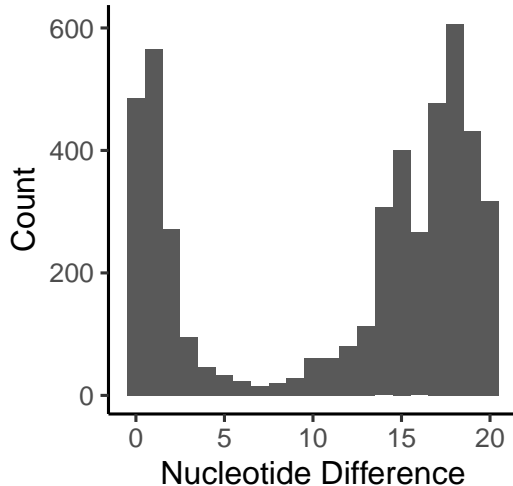
IGHV1-2*02

21367 sequences assigned
707 (3.3%) exact matches, in which:
521 unique CDR3
7 unique J



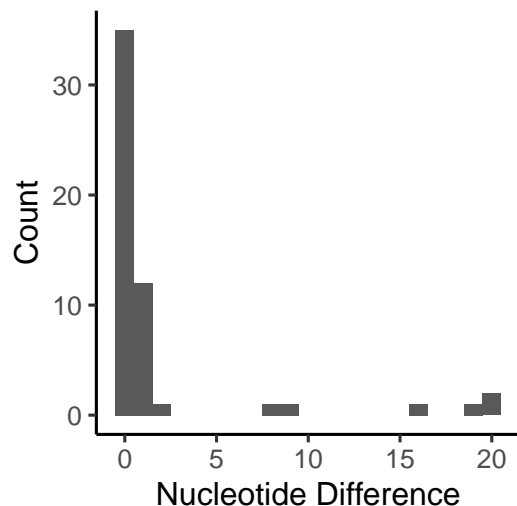
IGHV1-8*01

11600 sequences assigned
485 (4.2%) exact matches, in which:
373 unique CDR3
6 unique J



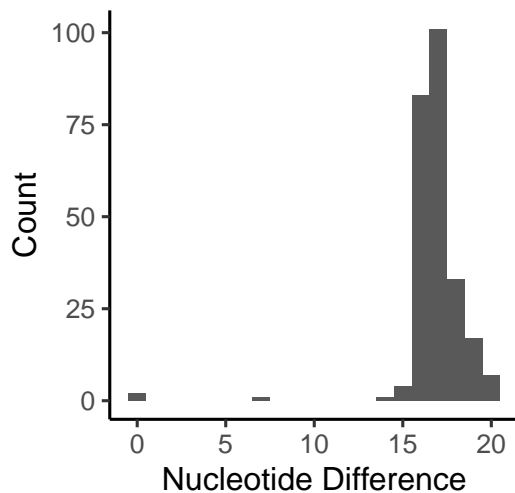
IGHV1-24*01

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



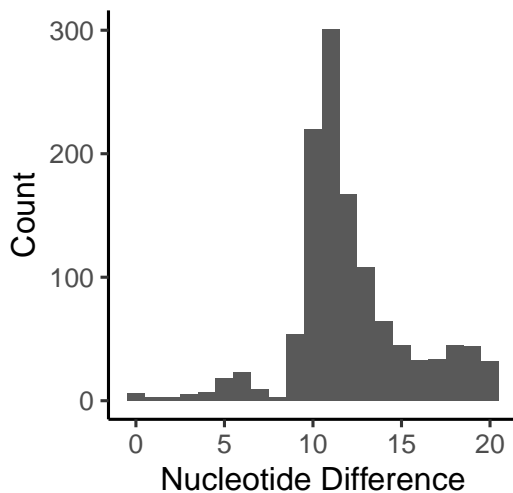
IGHV1-3*04

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



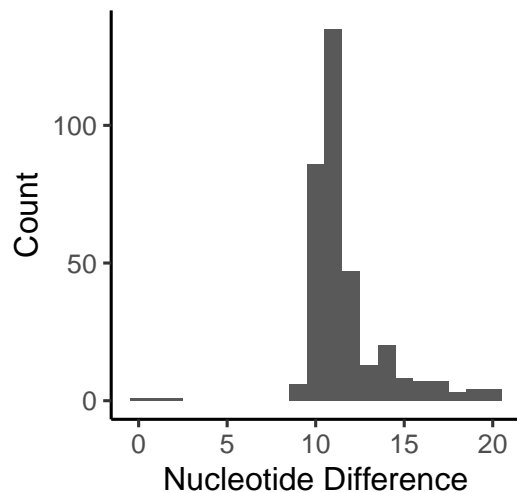
IGHV1-8*02

3259 sequences assigned
6 (0.2%) exact matches, in which:
6 unique CDR3
4 unique J



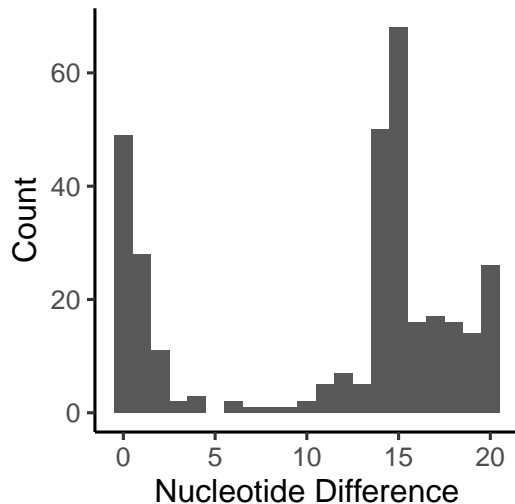
IGHV1-45*02

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



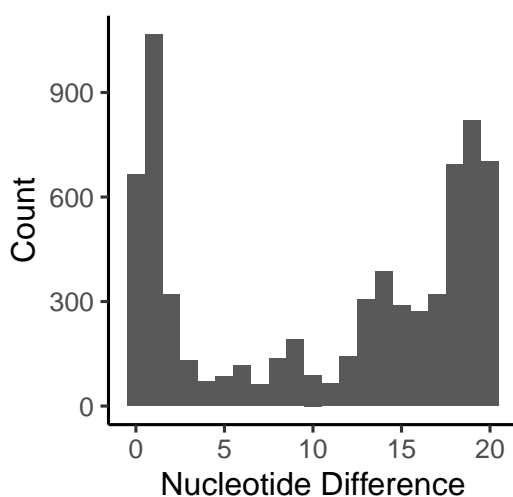
IGHV1-3*01_05

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



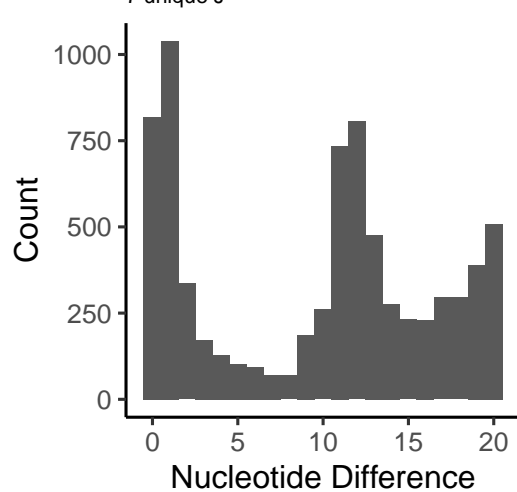
IGHV1-18*01

20095 sequences assigned
664 (3.3%) exact matches, in which:
483 unique CDR3
5 unique J



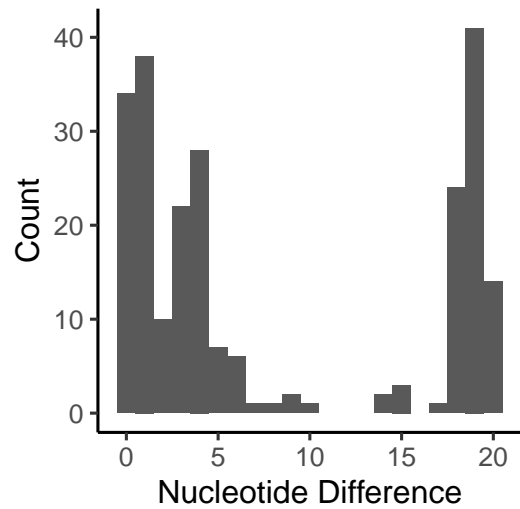
IGHV1-46*01

14824 sequences assigned
819 (5.5%) exact matches, in which:
604 unique CDR3
7 unique J



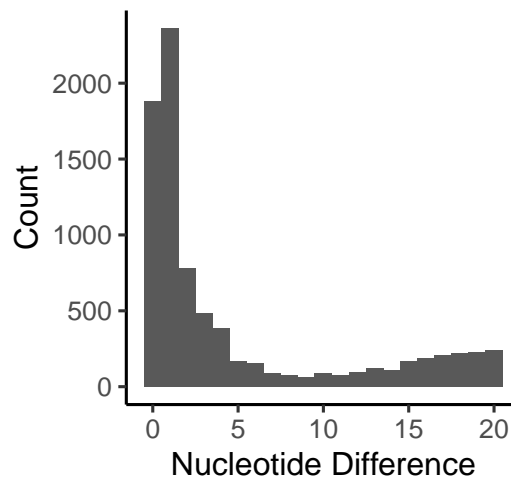
IGHV1-58*01_03

258 sequences assigned
34 (13.2%) exact matches, in which:
26 unique CDR3
3 unique J



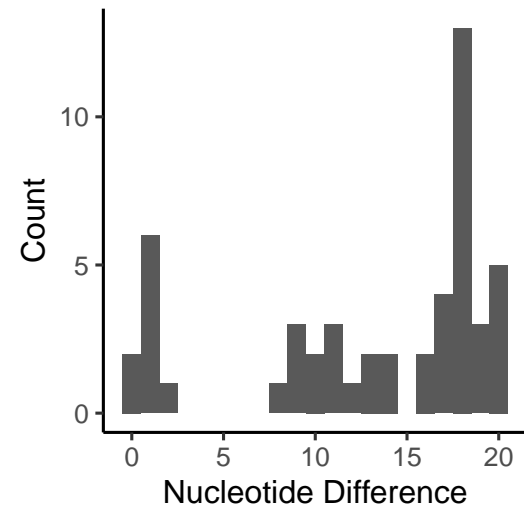
IGHV1-69*01_12_13

24411 sequences assigned
1879 (7.7%) exact matches, in which:
1422 unique CDR3
6 unique J



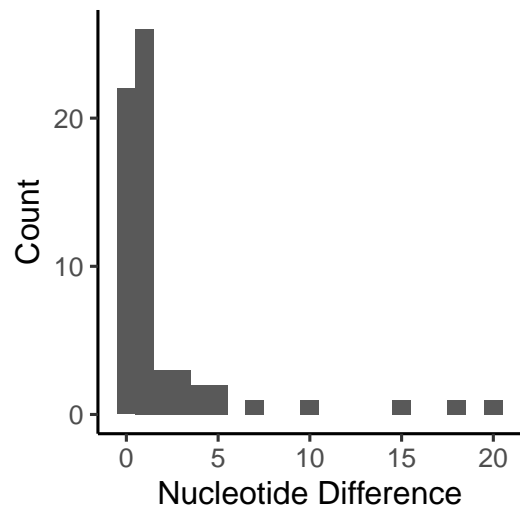
IGHV2-5*02

111 sequences assigned
2 (1.8%) exact matches, in which:
2 unique CDR3
2 unique J



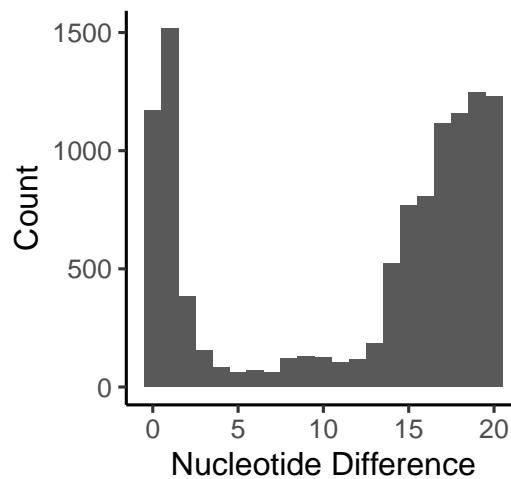
IGHV1-58*01_03_T234C_

64 sequences assigned
22 (34.4%) exact matches, in which:
18 unique CDR3
4 unique J



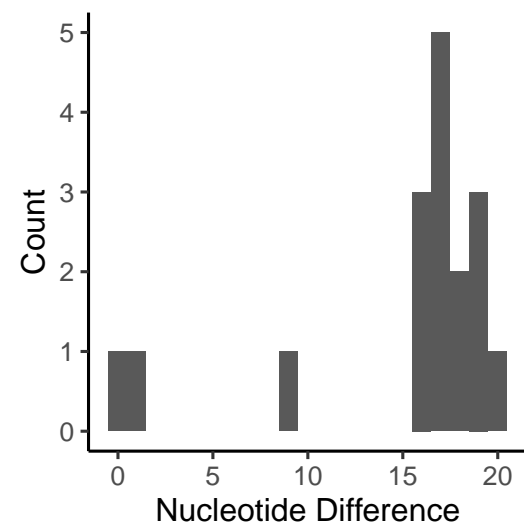
IGHV1-69*06_14

24381 sequences assigned
1170 (4.8%) exact matches, in which:
919 unique CDR3
7 unique J



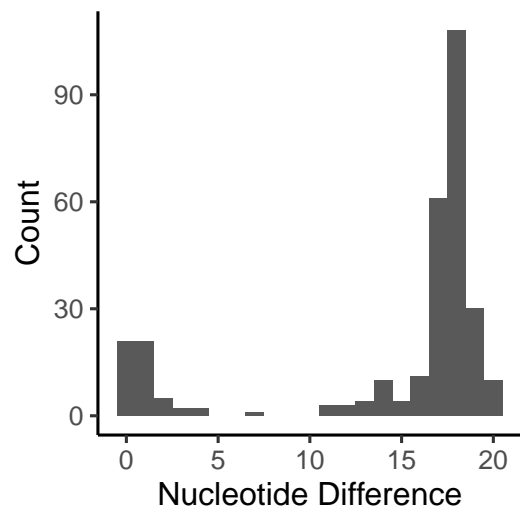
IGHV2-26*01

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



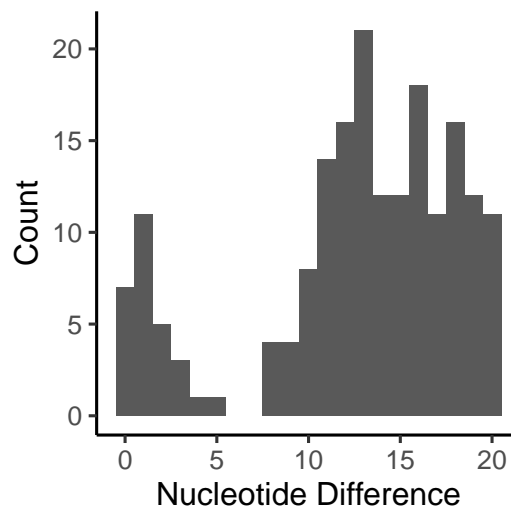
IGHV1-69-2*01

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



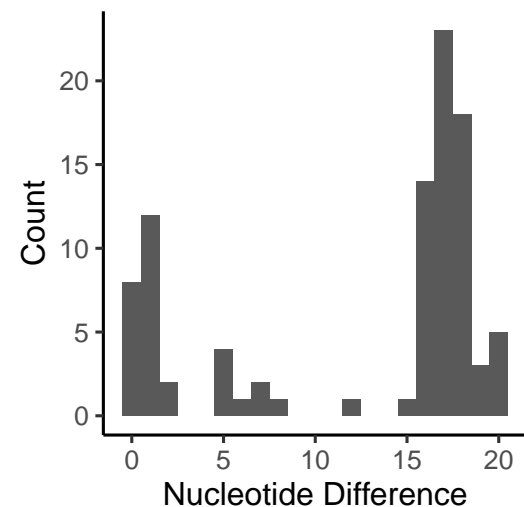
IGHV2-5*01

250 sequences assigned
7 (2.8%) exact matches, in which:
5 unique CDR3
2 unique J



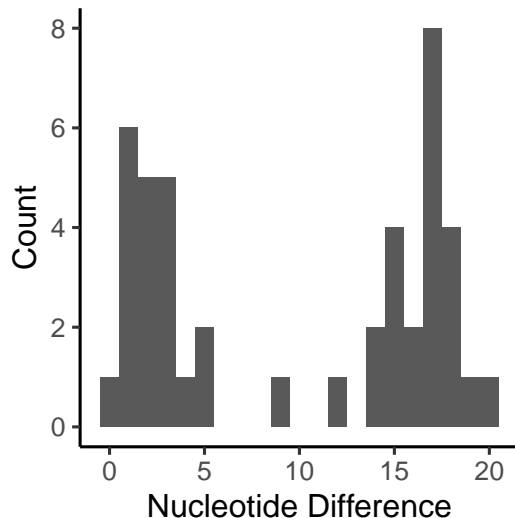
IGHV2-70*01

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



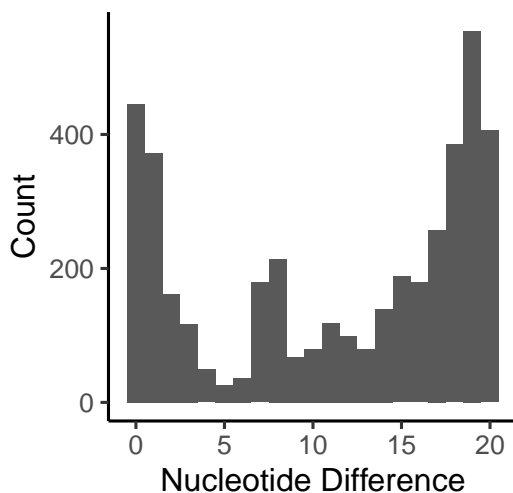
IGHV2-70*04

64 sequences assigned
1 (1.6%) exact matches, in which:
1 unique CDR3
1 unique J



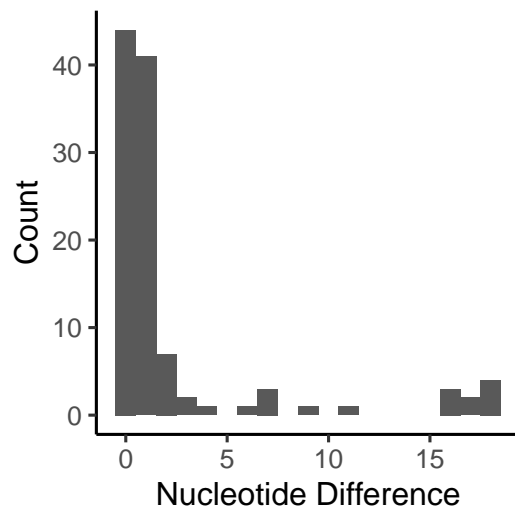
IGHV3-9*01

8937 sequences assigned
446 (5%) exact matches, in which:
330 unique CDR3
7 unique J



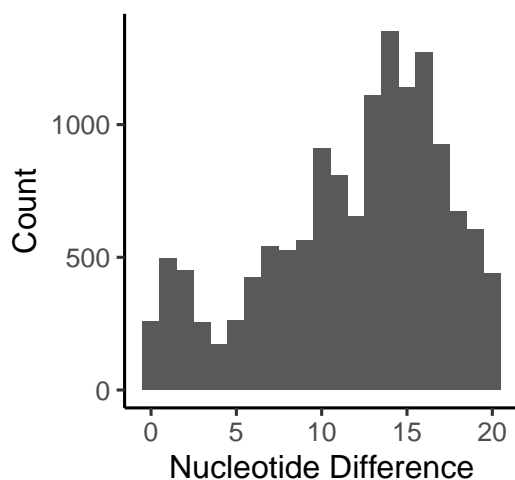
IGHV3-13*01

608 sequences assigned
44 (7.2%) exact matches, in which:
32 unique CDR3
3 unique J



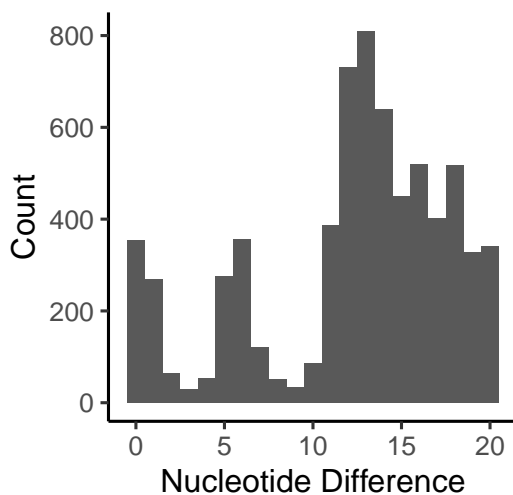
IGHV3-7*01

17064 sequences assigned
259 (1.5%) exact matches, in which:
210 unique CDR3
5 unique J



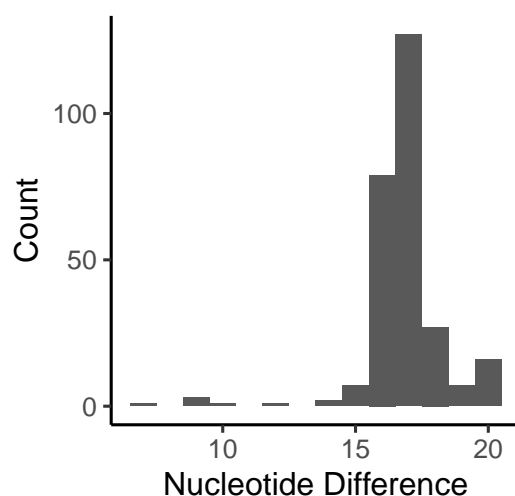
IGHV3-11*01

18346 sequences assigned
354 (1.9%) exact matches, in which:
275 unique CDR3
5 unique J



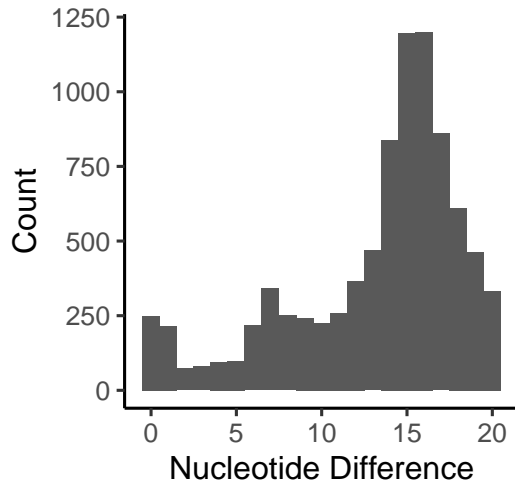
IGHV3-15*05

566 sequences assigned
No exact matches.



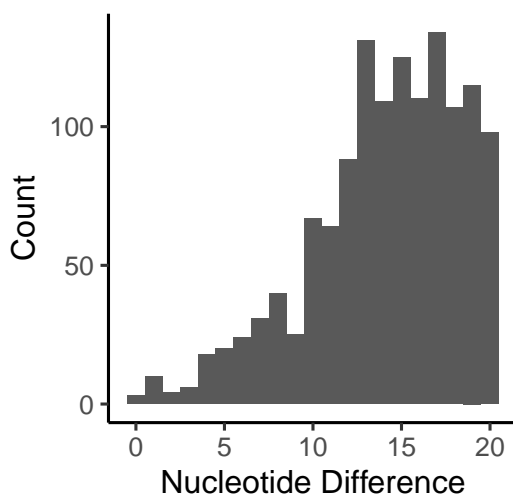
IGHV3-7*03

11024 sequences assigned
249 (2.3%) exact matches, in which:
203 unique CDR3
5 unique J



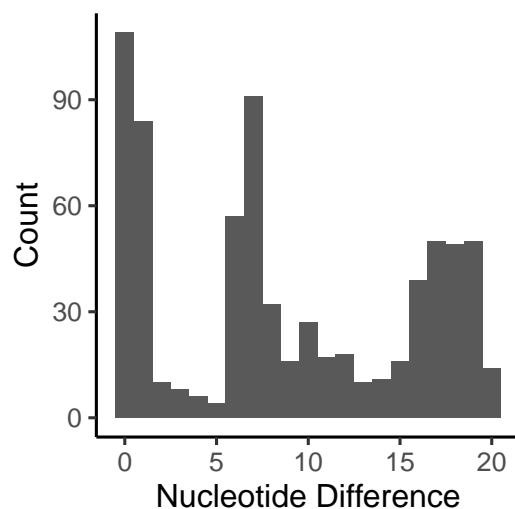
IGHV3-11*04

2792 sequences assigned
3 (0.1%) exact matches, in which:
3 unique CDR3
2 unique J



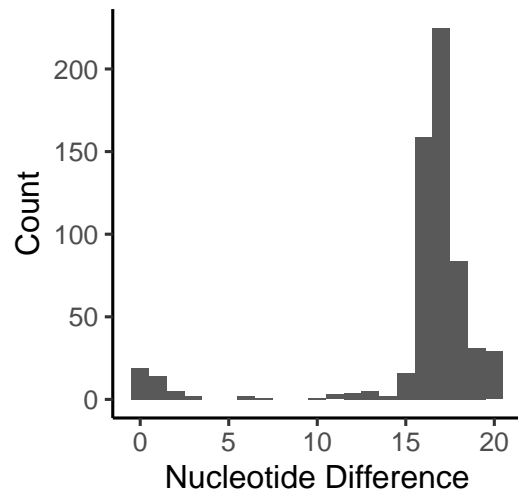
IGHV3-15*01_02

1403 sequences assigned
109 (7.8%) exact matches, in which:
93 unique CDR3
4 unique J



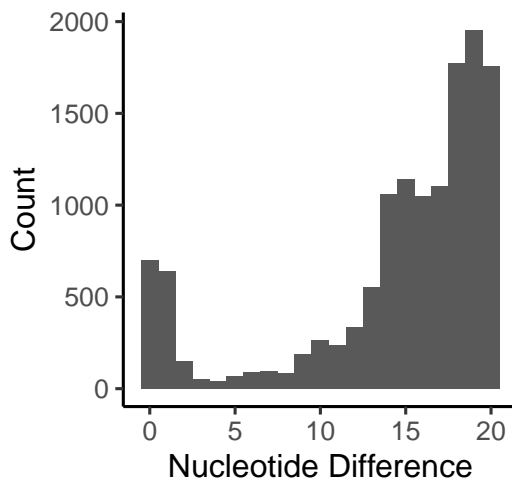
IGHV3-20*01_02

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



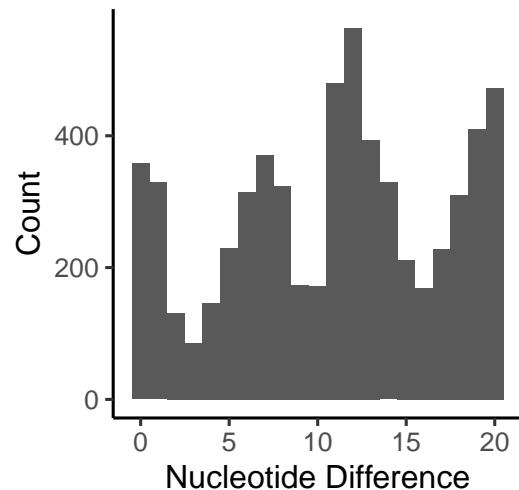
IGHV3-21*01_02

29763 sequences assigned
699 (2.3%) exact matches, in which:
521 unique CDR3
6 unique J



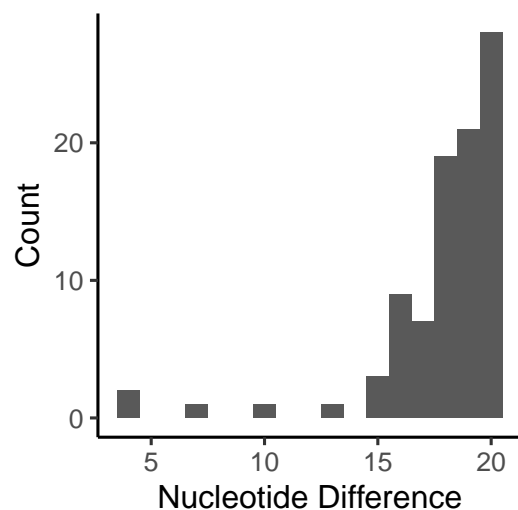
IGHV3-30*03

9276 sequences assigned
358 (3.9%) exact matches, in which:
299 unique CDR3
6 unique J



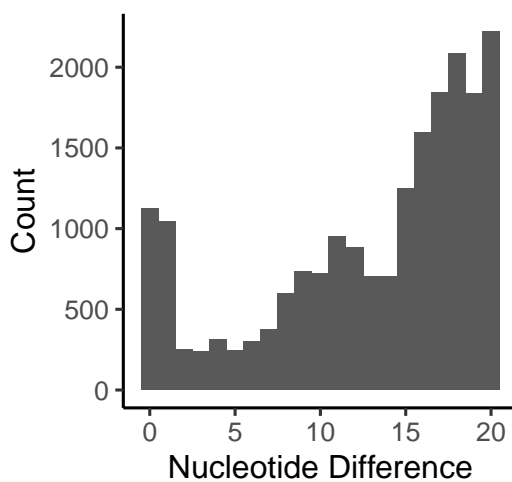
IGHV3-20*03_04

392 sequences assigned
No exact matches.



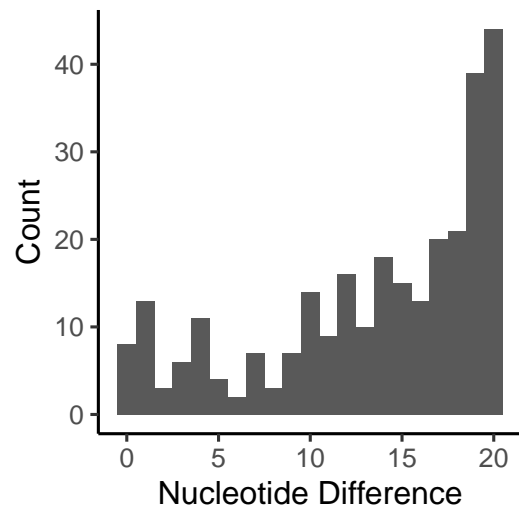
IGHV3-23*01_04

45006 sequences assigned
1125 (2.5%) exact matches, in which:
848 unique CDR3
7 unique J



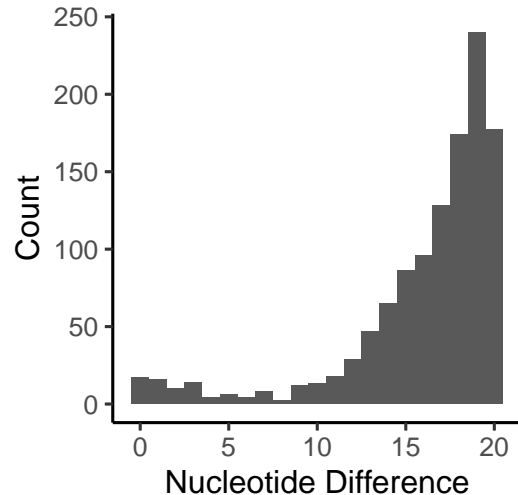
IGHV3-30*04

1737 sequences assigned
8 (0.5%) exact matches, in which:
8 unique CDR3
3 unique J



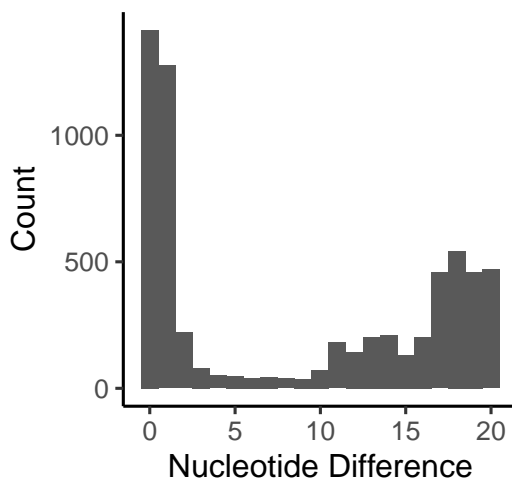
IGHV3-21*04

2916 sequences assigned
17 (0.6%) exact matches, in which:
17 unique CDR3
3 unique J



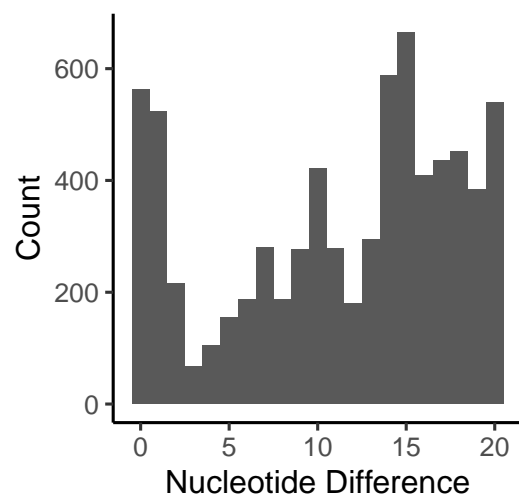
IGHV3-30-3*01

12472 sequences assigned
1416 (11.4%) exact matches, in which:
1137 unique CDR3
6 unique J



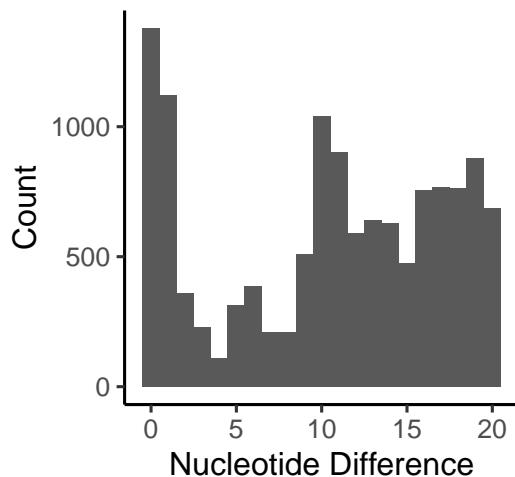
IGHV3-30*18

11136 sequences assigned
562 (5%) exact matches, in which:
429 unique CDR3
6 unique J



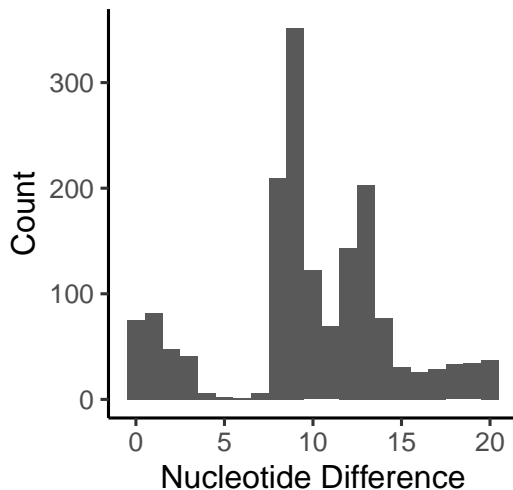
IGHV3-33*01

18884 sequences assigned
1378 (7.3%) exact matches, in which:
968 unique CDR3
7 unique J



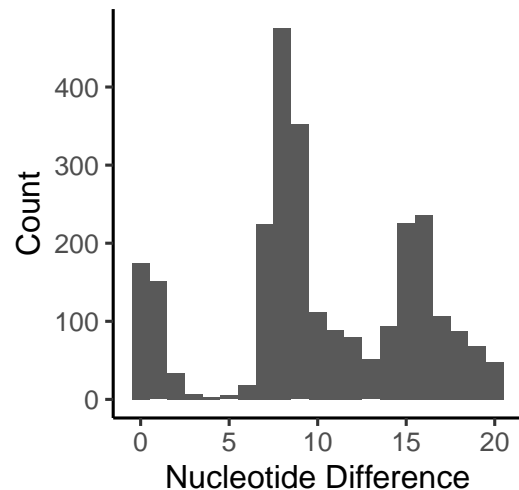
IGHV3-43*01

1945 sequences assigned
75 (3.9%) exact matches, in which:
60 unique CDR3
3 unique J



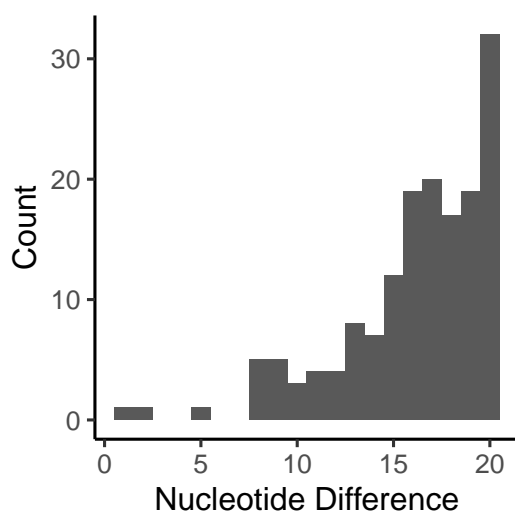
IGHV3-49*03_05

2954 sequences assigned
175 (5.9%) exact matches, in which:
136 unique CDR3
5 unique J



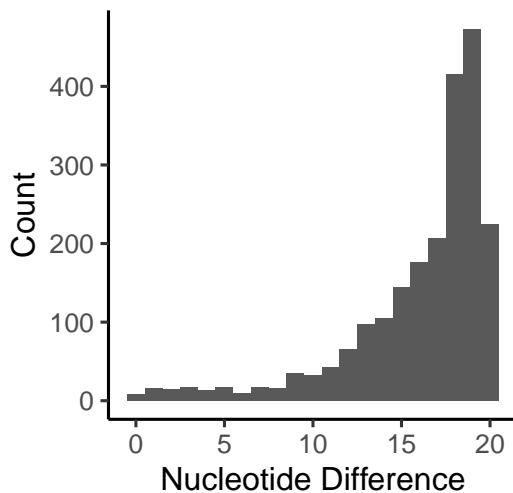
IGHV3-33*05

630 sequences assigned
No exact matches.



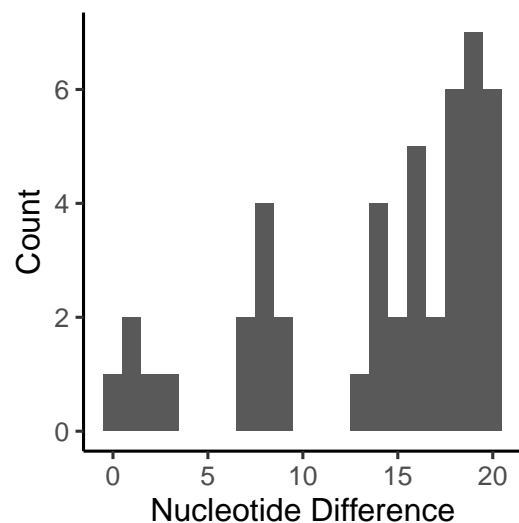
IGHV3-48*01

3962 sequences assigned
8 (0.2%) exact matches, in which:
8 unique CDR3
2 unique J



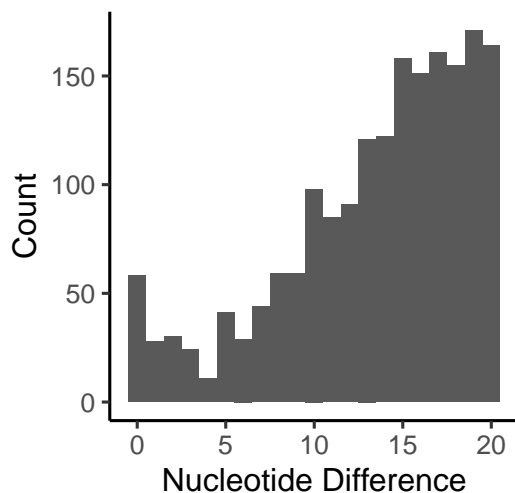
IGHV3-53*05

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



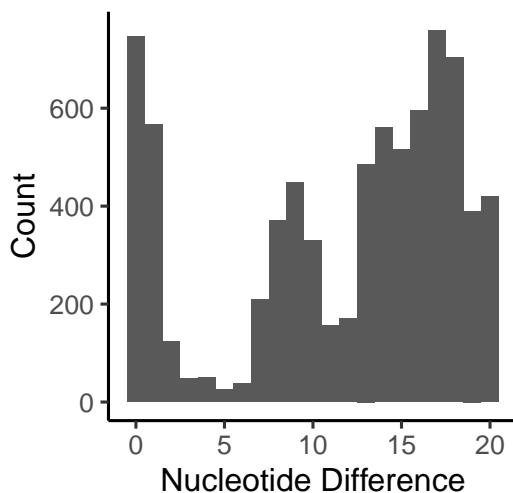
IGHV3-33*08

3766 sequences assigned
58 (1.5%) exact matches, in which:
58 unique CDR3
5 unique J



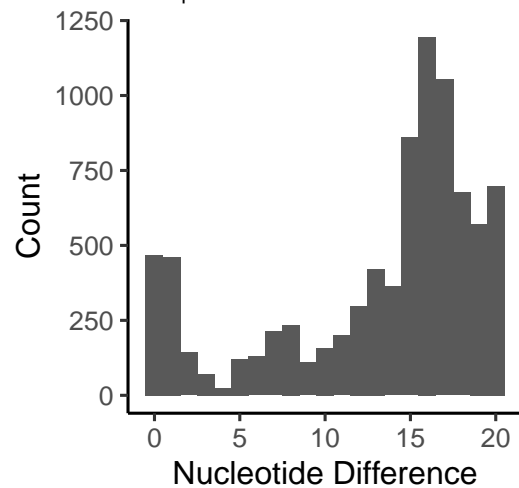
IGHV3-48*02

15250 sequences assigned
747 (4.9%) exact matches, in which:
538 unique CDR3
6 unique J



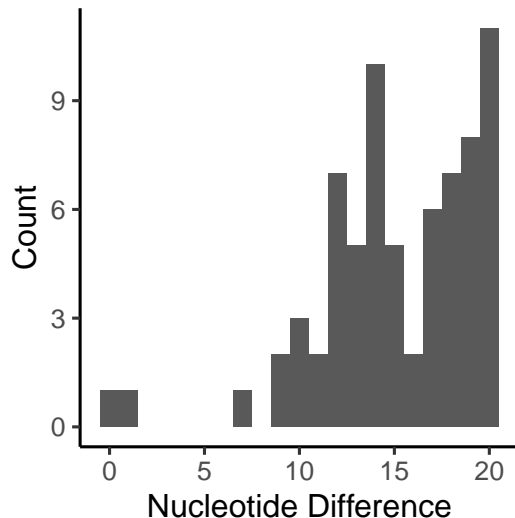
IGHV3-53*01_02

14567 sequences assigned
469 (3.2%) exact matches, in which:
371 unique CDR3
5 unique J



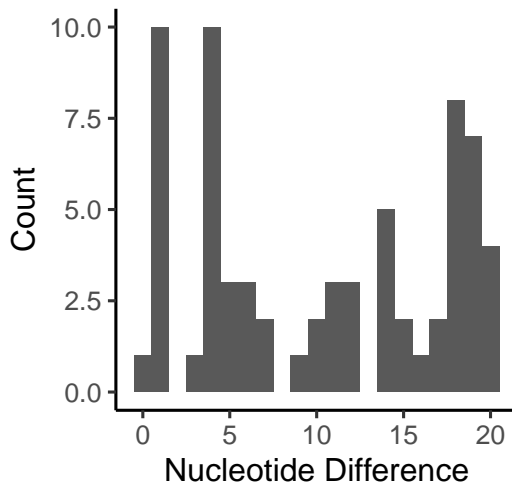
IGHV3-66*01

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



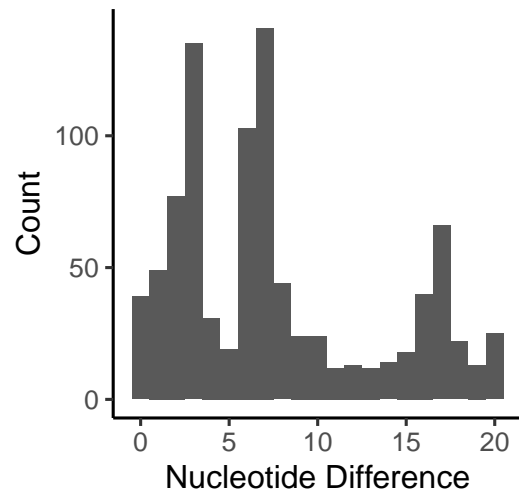
IGHV3-69-1*01

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



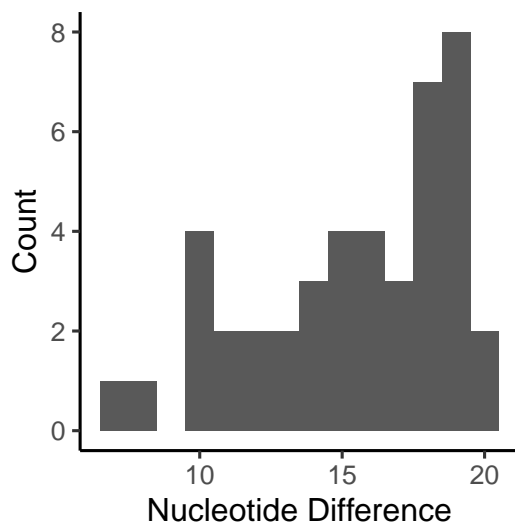
IGHV3-73*01_02

2210 sequences assigned
39 (1.8%) exact matches, in which:
30 unique CDR3
4 unique J



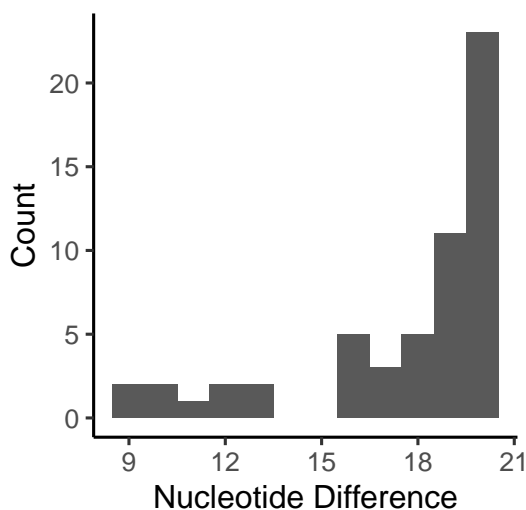
IGHV3-66*02

104 sequences assigned
No exact matches.



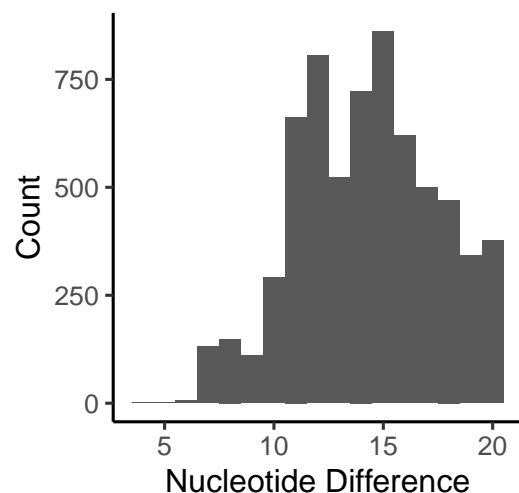
IGHV3-69-1*02

815 sequences assigned
No exact matches.



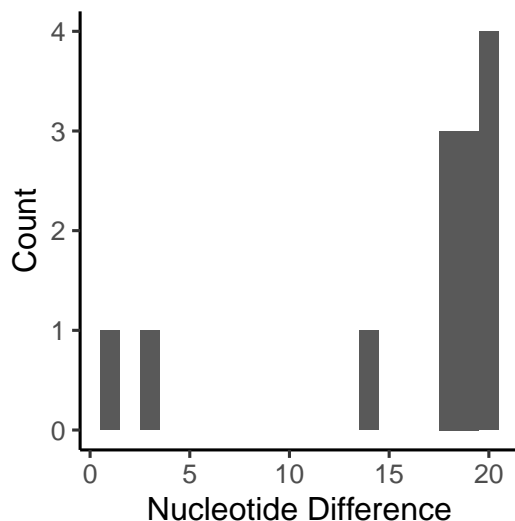
IGHV3-74*03

10809 sequences assigned
No exact matches.



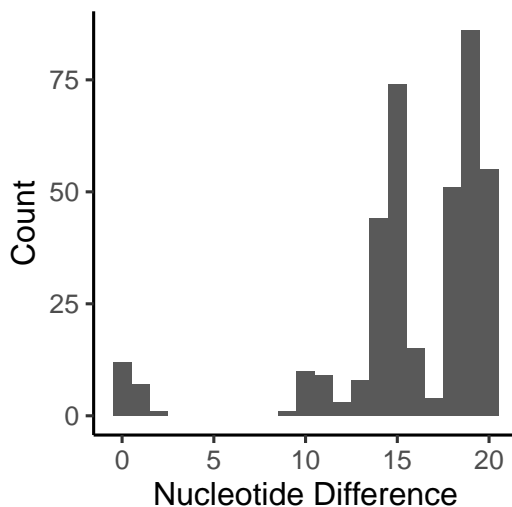
IGHV3-66*03

37 sequences assigned
No exact matches.



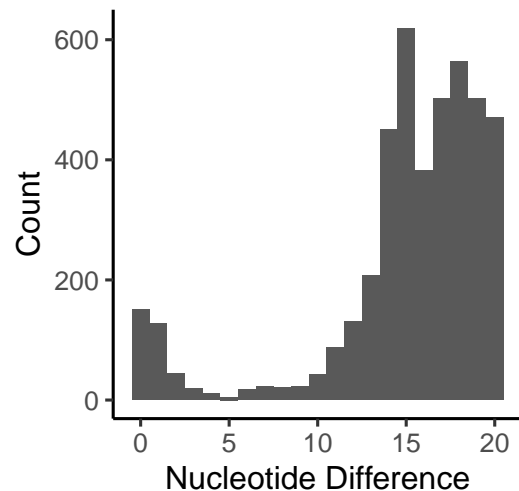
IGHV3-72*01

602 sequences assigned
12 (2%) exact matches, in which:
12 unique CDR3
3 unique J



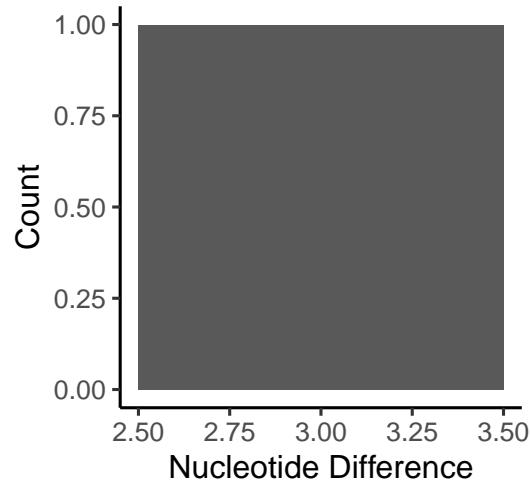
IGHV3-74*01_02

8270 sequences assigned
151 (1.8%) exact matches, in which:
108 unique CDR3
5 unique J



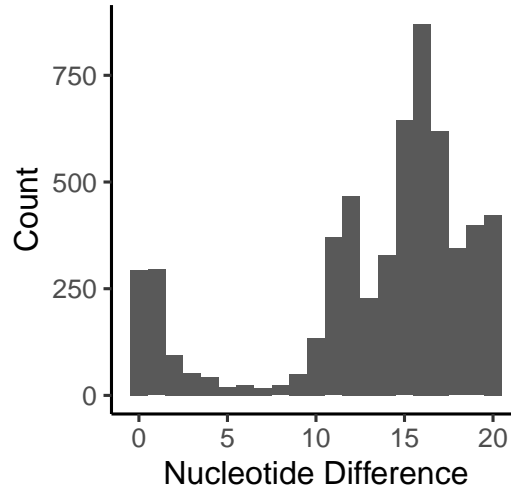
IGHV3-43D*04

21 sequences assigned
No exact matches.



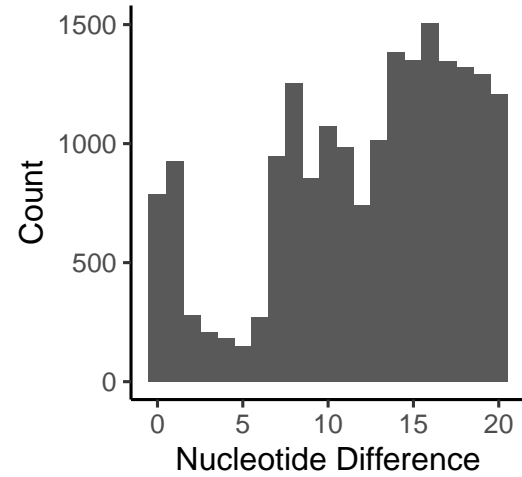
IGHV4-4*02_03

10410 sequences assigned
293 (2.8%) exact matches, in which:
207 unique CDR3
7 unique J



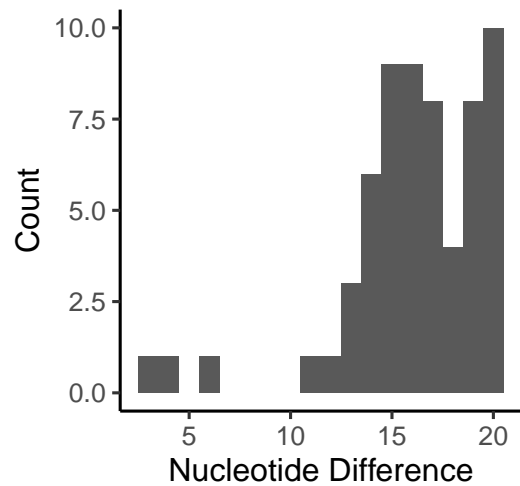
IGHV4-30-4*01

37591 sequences assigned
787 (2.1%) exact matches, in which:
526 unique CDR3
6 unique J



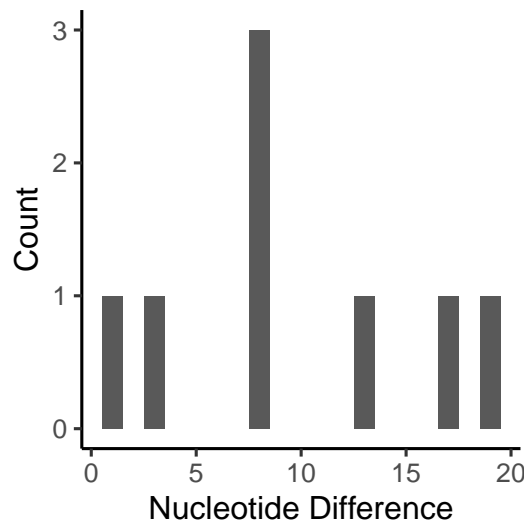
IGHV3-NL1*01

176 sequences assigned
No exact matches.



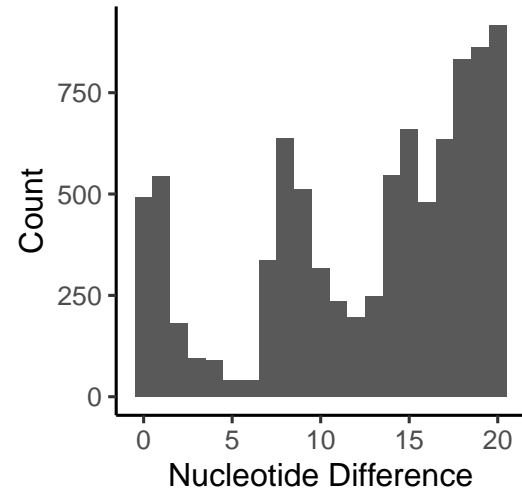
IGHV4-28*03

24 sequences assigned
No exact matches.



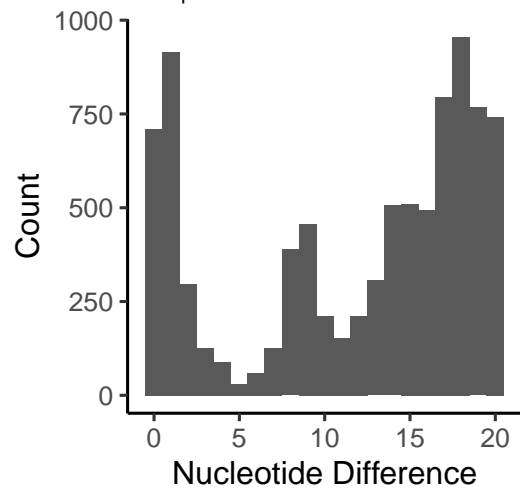
IGHV4-30-2*01

39989 sequences assigned
493 (1.2%) exact matches, in which:
332 unique CDR3
5 unique J



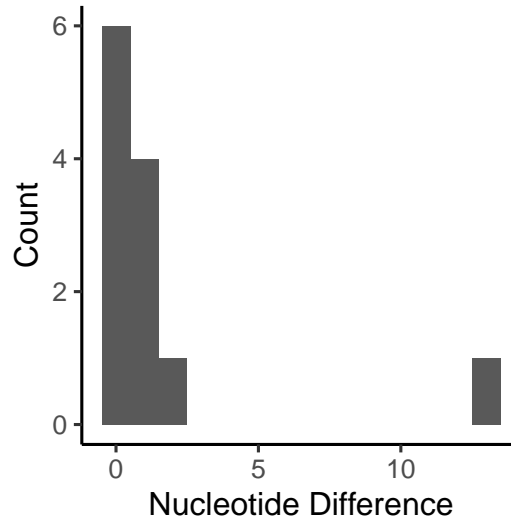
IGHV4-4*07

22970 sequences assigned
710 (3.1%) exact matches, in which:
492 unique CDR3
6 unique J



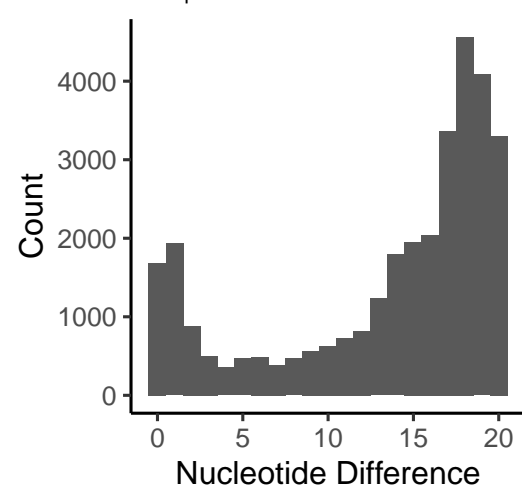
IGHV4-28*01_07

19 sequences assigned
6 (31.6%) exact matches, in which:
3 unique CDR3
1 unique J



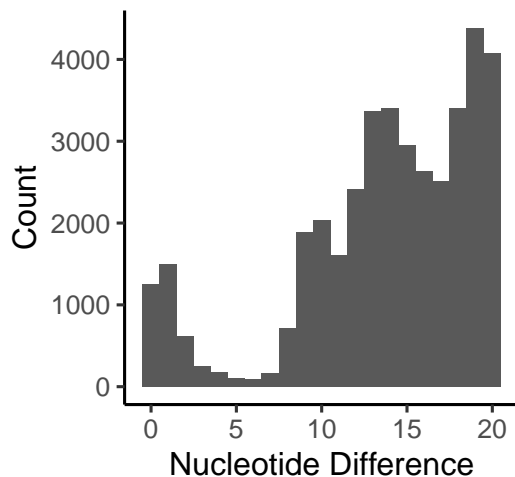
IGHV4-31*02

75043 sequences assigned
1683 (2.2%) exact matches, in which:
1142 unique CDR3
6 unique J



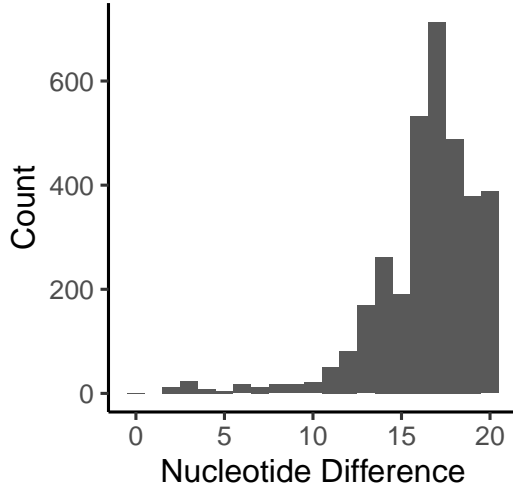
IGHV4-34*01_02

75132 sequences assigned
1248 (1.7%) exact matches, in which:
843 unique CDR3
7 unique J



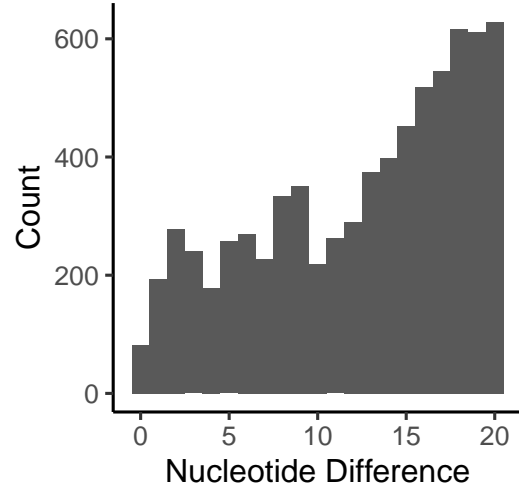
IGHV4-39*02

26793 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



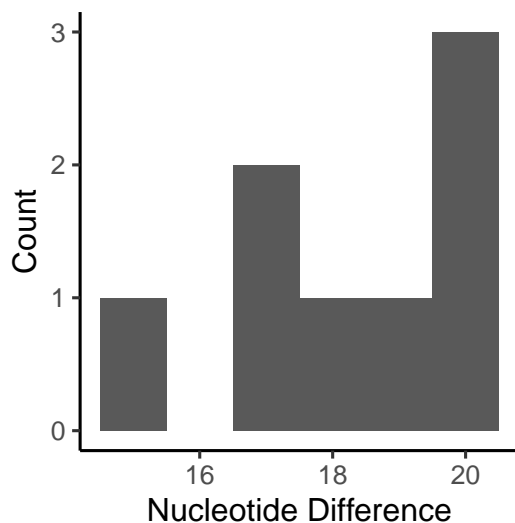
IGHV4-59*12

13595 sequences assigned
82 (0.6%) exact matches, in which:
75 unique CDR3
6 unique J



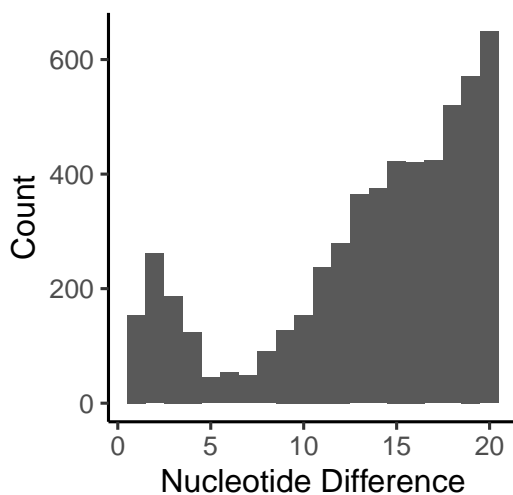
IGHV4-38-2*01

46 sequences assigned
No exact matches.



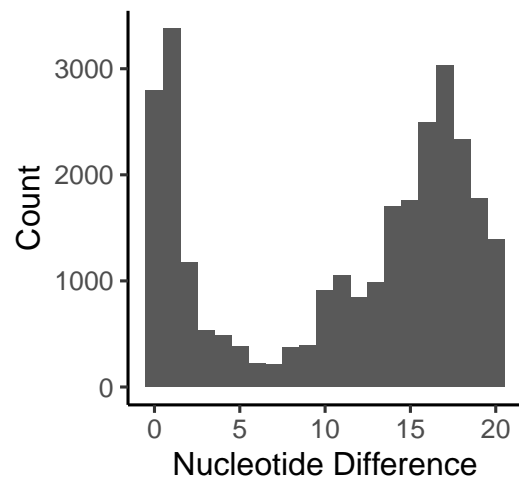
IGHV4-39*07

13906 sequences assigned
No exact matches.



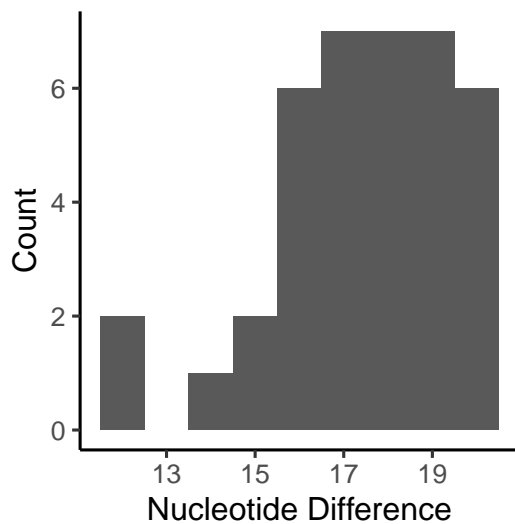
IGHV4-59*01_07

45034 sequences assigned
2793 (6.2%) exact matches, in which:
1699 unique CDR3
7 unique J



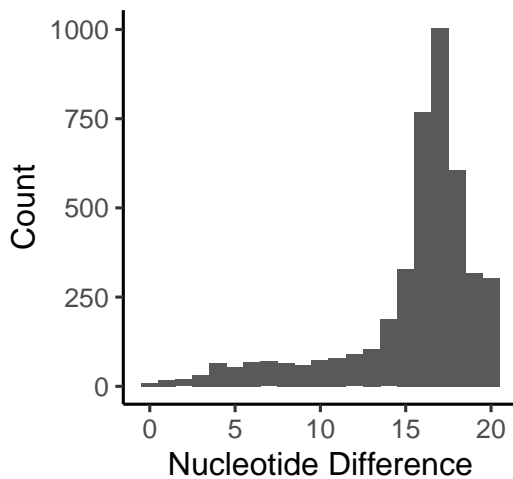
IGHV4-38-2*02

114 sequences assigned
No exact matches.



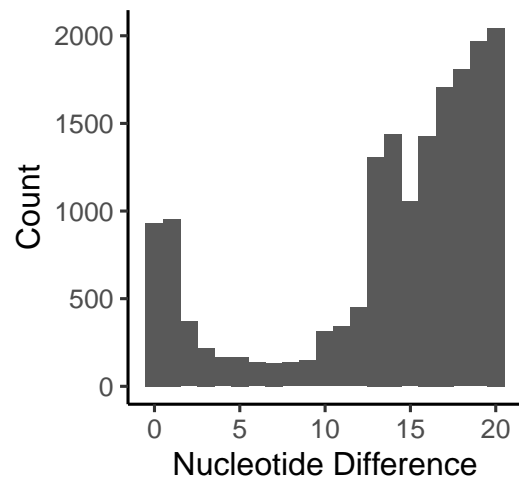
IGHV4-59*02

16147 sequences assigned
9 (0.1%) exact matches, in which:
8 unique CDR3
3 unique J



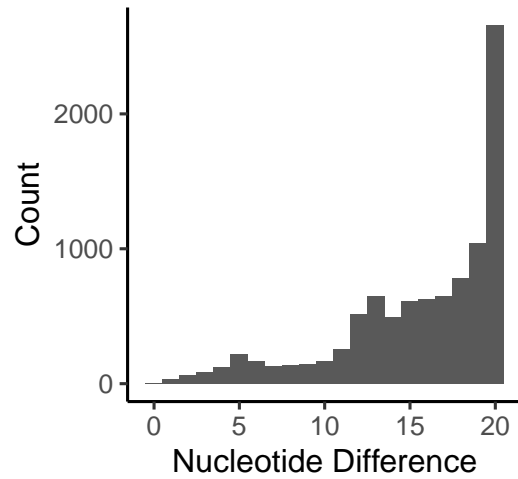
IGHV4-61*01

43272 sequences assigned
930 (2.1%) exact matches, in which:
645 unique CDR3
7 unique J



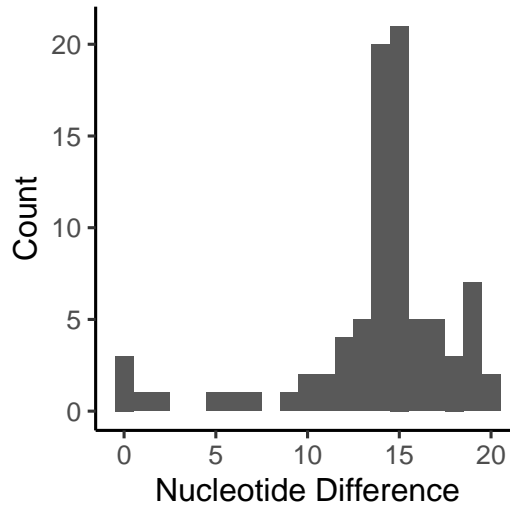
IGHV4–61*08

75225 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



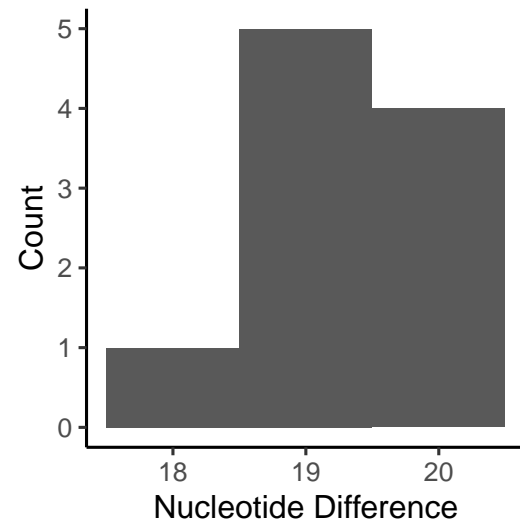
IGHV5–51*06

130 sequences assigned
3 (2.3%) exact matches, in which:
3 unique CDR3
3 unique J



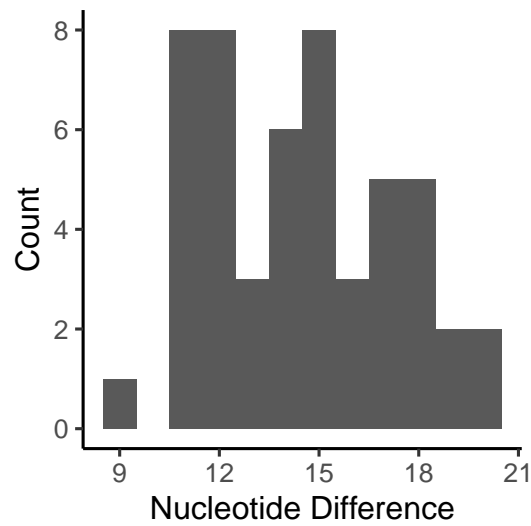
IGHV3/OR16–10*01_03

57 sequences assigned
No exact matches.



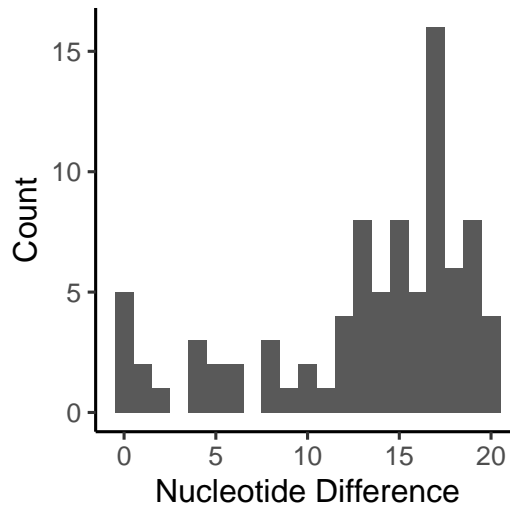
IGHV4/OR15–8*01

200 sequences assigned
No exact matches.



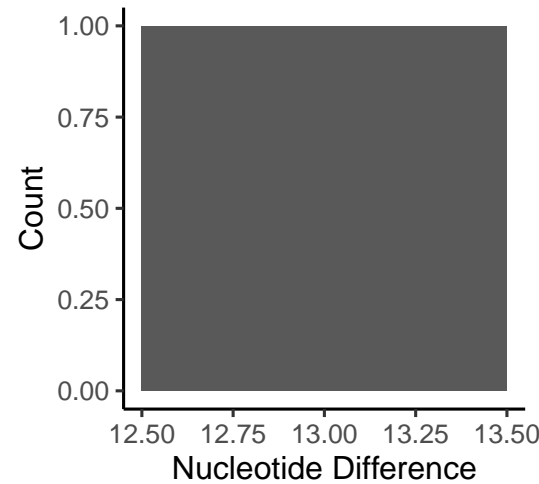
IGHV5–51*07

147 sequences assigned
5 (3.4%) exact matches, in which:
5 unique CDR3
4 unique J



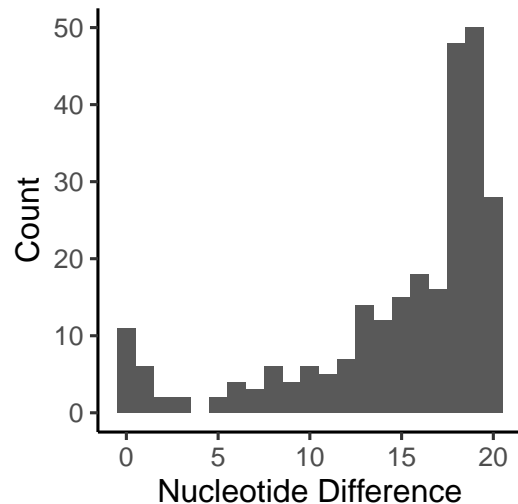
IGHV7–4–1*02

119 sequences assigned
No exact matches.



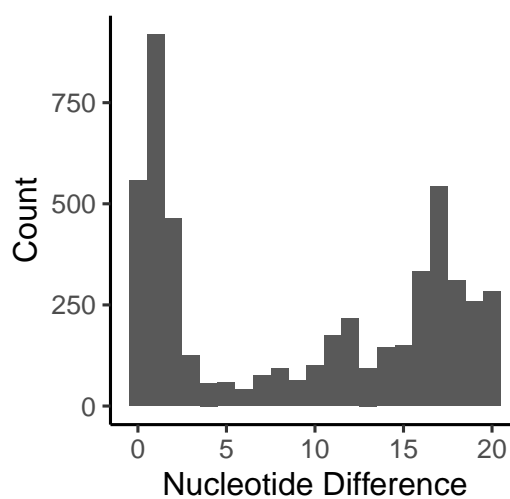
IGHV5–51*04

402 sequences assigned
11 (2.7%) exact matches, in which:
11 unique CDR3
5 unique J

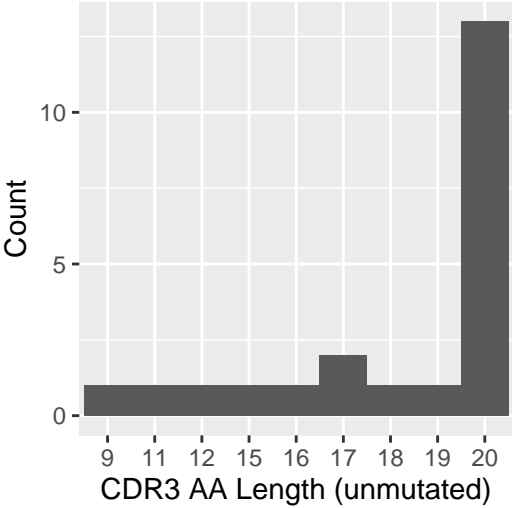


IGHV6–1*01_02

5458 sequences assigned
557 (10.2%) exact matches, in which:
379 unique CDR3
5 unique J



IGHV1-58*01_03_T234C_G254C_C260T_A263C



Allele Usage

