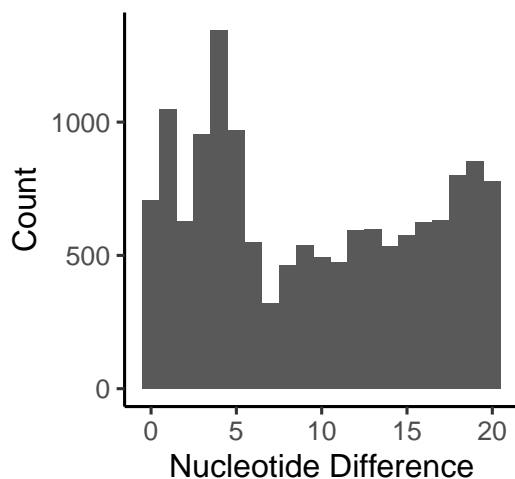


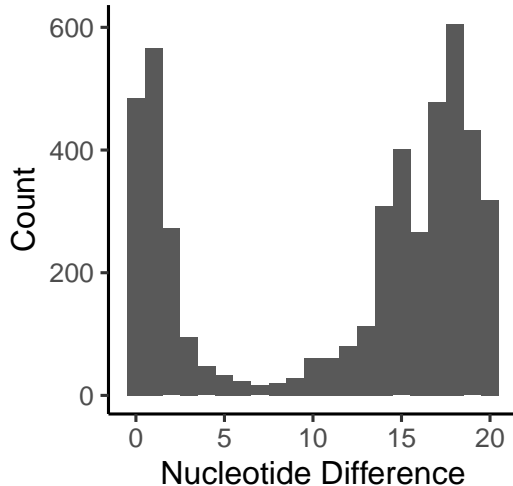
IGHV1-2*02

21369 sequences assigned
707 (3.3%) exact matches, in which:
521 unique CDR3
7 unique J



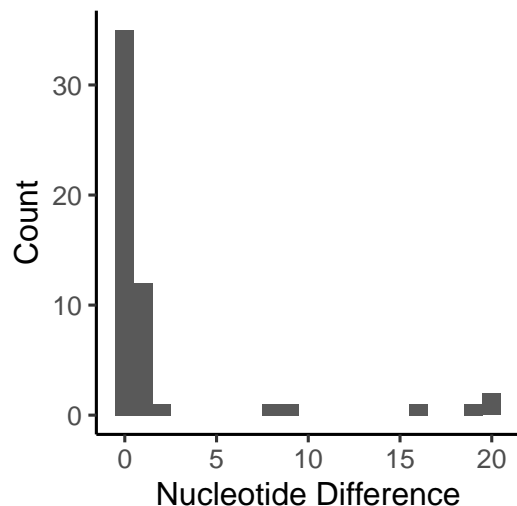
IGHV1-8*01

11607 sequences assigned
485 (4.2%) exact matches, in which:
373 unique CDR3
6 unique J



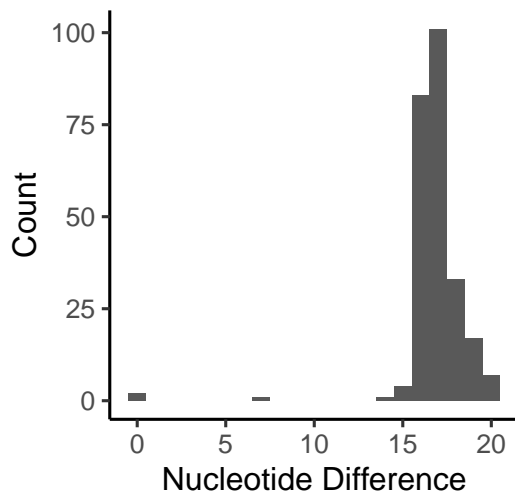
IGHV1-24*01

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



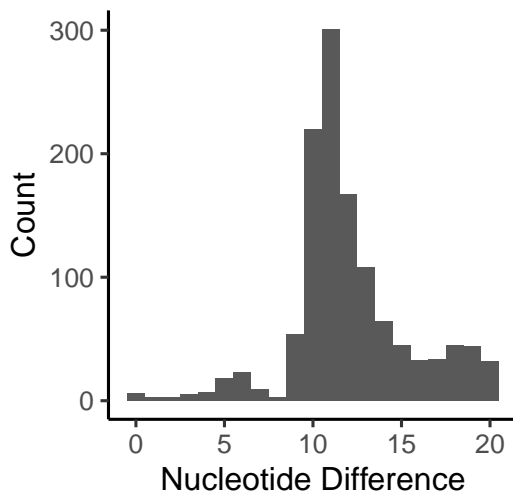
IGHV1-3*04

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



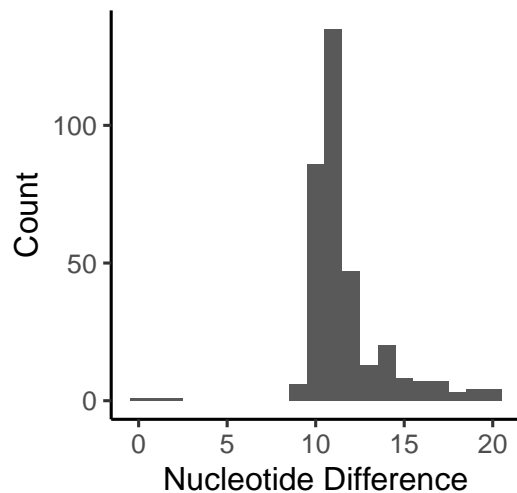
IGHV1-8*02

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



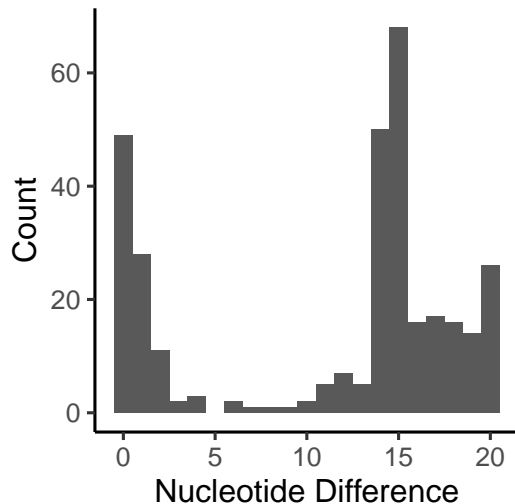
IGHV1-45*02

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



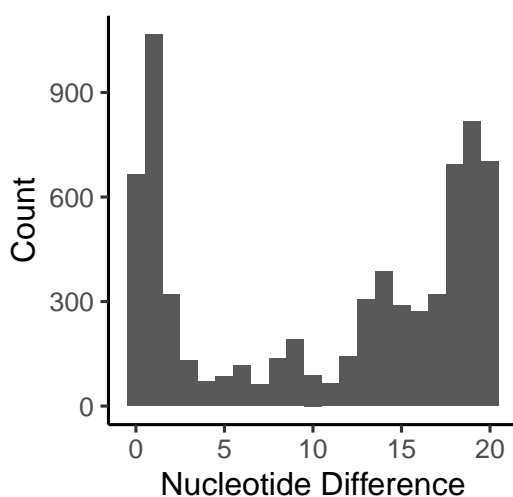
IGHV1-3*01_05

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



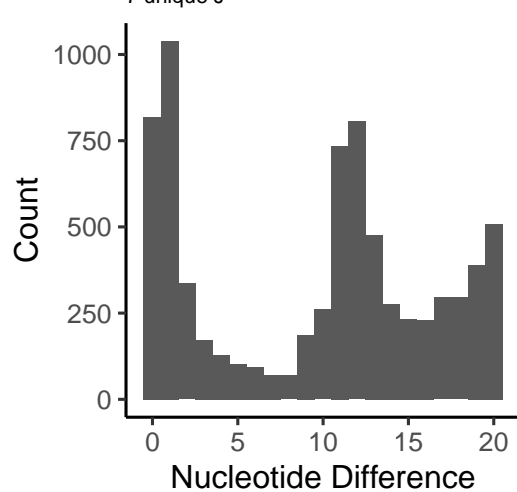
IGHV1-18*01

20097 sequences assigned
664 (3.3%) exact matches, in which:
483 unique CDR3
5 unique J



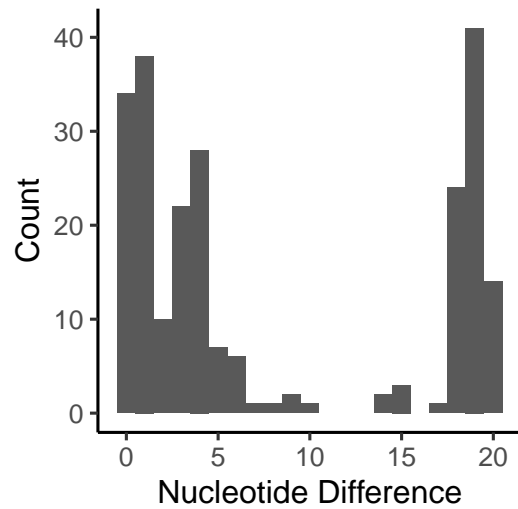
IGHV1-46*01

14828 sequences assigned
819 (5.5%) exact matches, in which:
604 unique CDR3
7 unique J



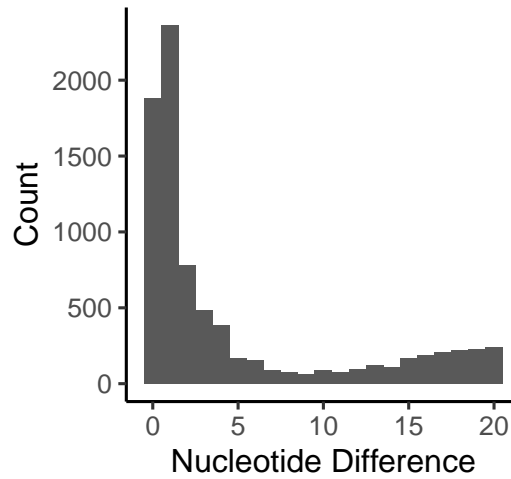
IGHV1-58*01_03

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



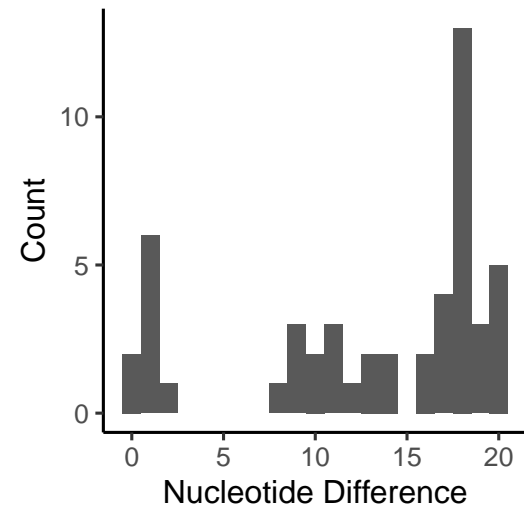
IGHV1-69*01_12_13

24423 sequences assigned
1880 (7.7%) exact matches, in which:
1422 unique CDR3
6 unique J



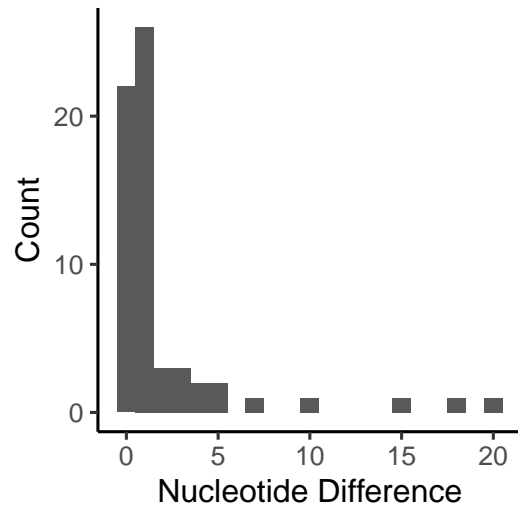
IGHV2-5*02

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



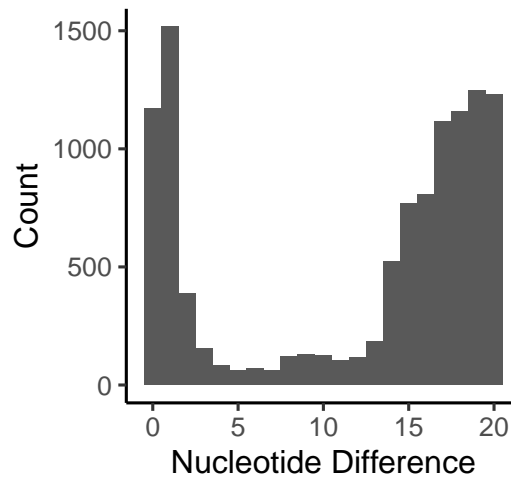
IGHV1-58*01_03_T234C_

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



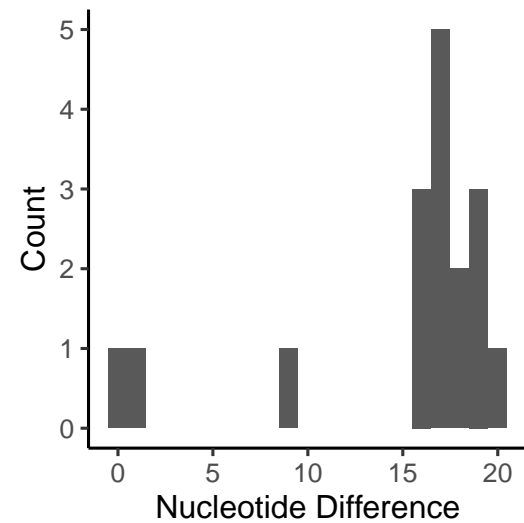
IGHV1-69*06_14

24399 sequences assigned
1171 (4.8%) exact matches, in which:
919 unique CDR3
7 unique J



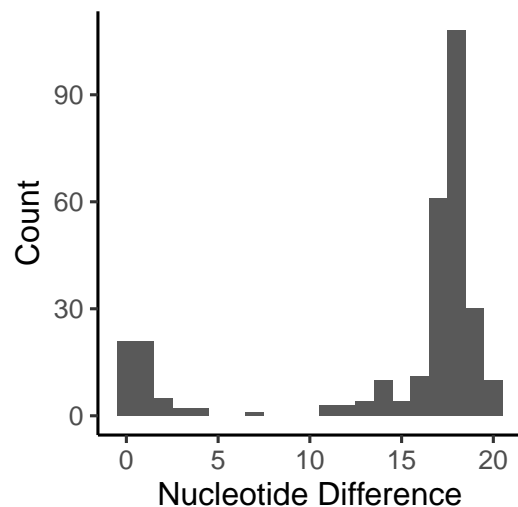
IGHV2-26*01

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



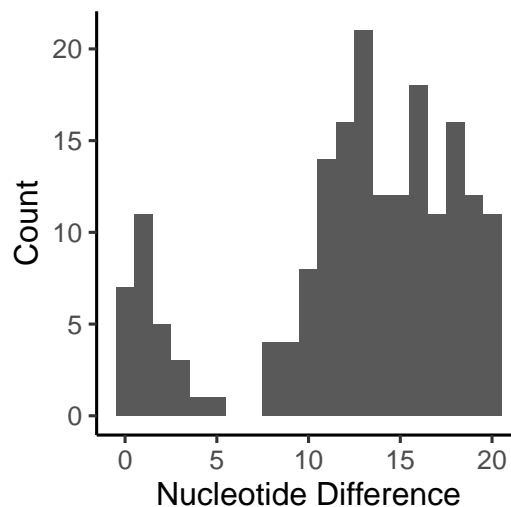
IGHV1-69-2*01

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



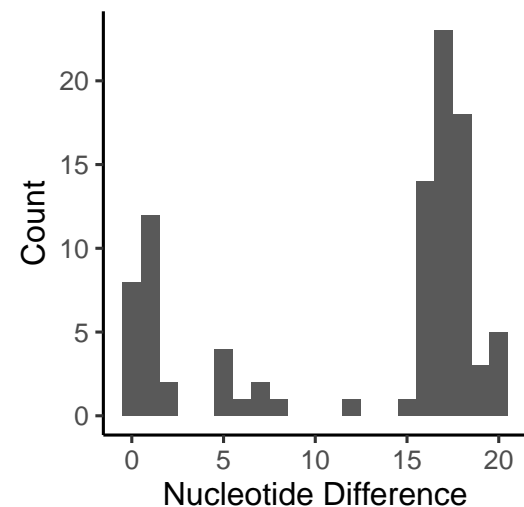
IGHV2-5*01

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



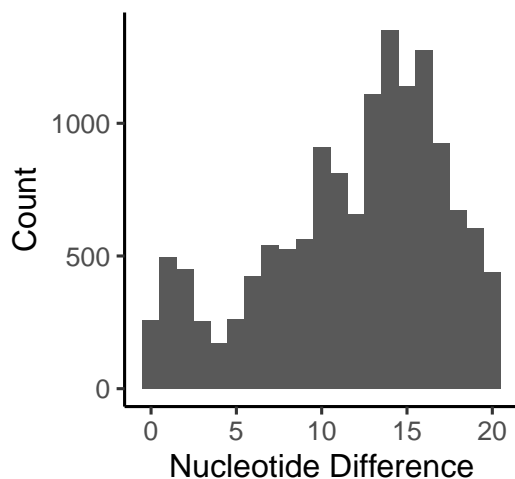
IGHV2-70*01

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



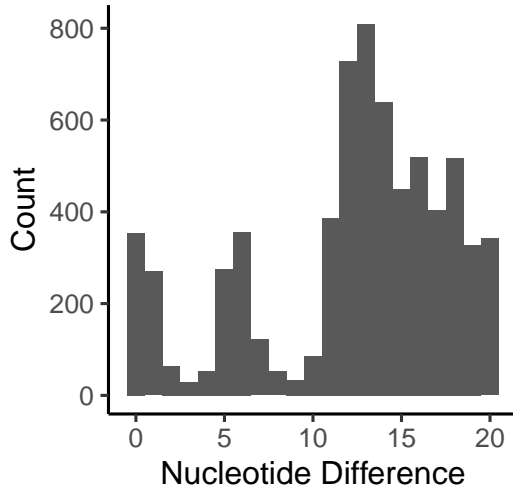
IGHV3-7*01

17071 sequences assigned
259 (1.5%) exact matches, in which:
210 unique CDR3
5 unique J



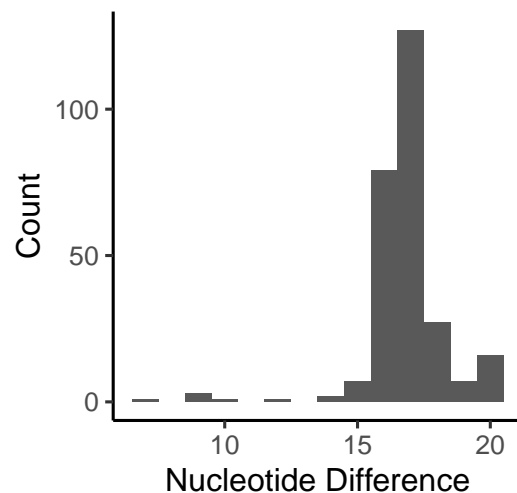
IGHV3-11*01

18353 sequences assigned
354 (1.9%) exact matches, in which:
275 unique CDR3
5 unique J



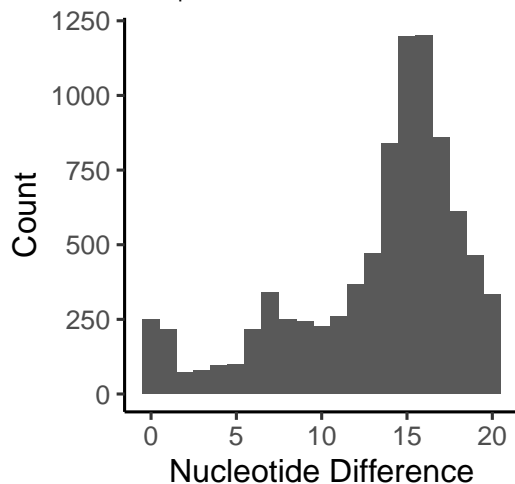
IGHV3-15*05

566 sequences assigned
No exact matches.



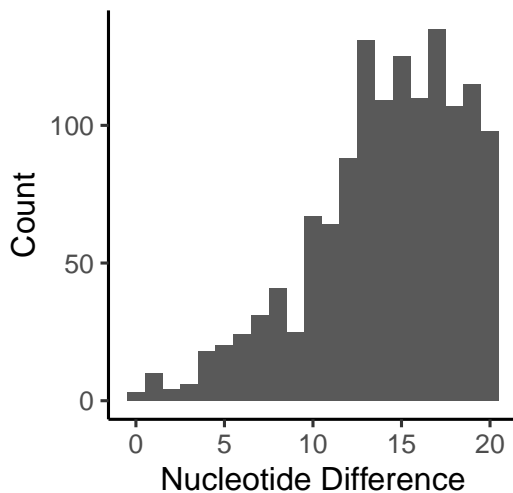
IGHV3-7*03

11032 sequences assigned
249 (2.3%) exact matches, in which:
203 unique CDR3
5 unique J



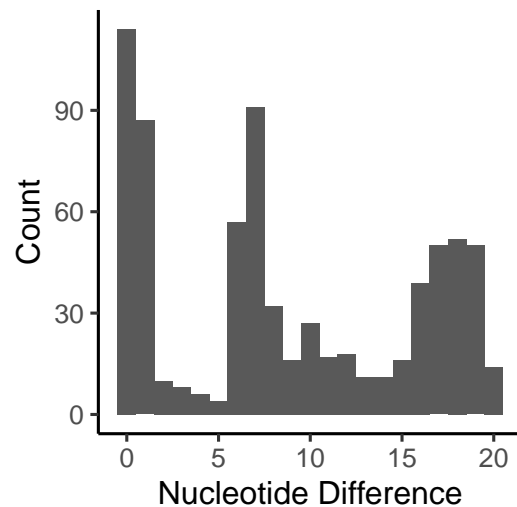
IGHV3-11*04

2794 sequences assigned
3 (0.1%) exact matches, in which:
3 unique CDR3
2 unique J



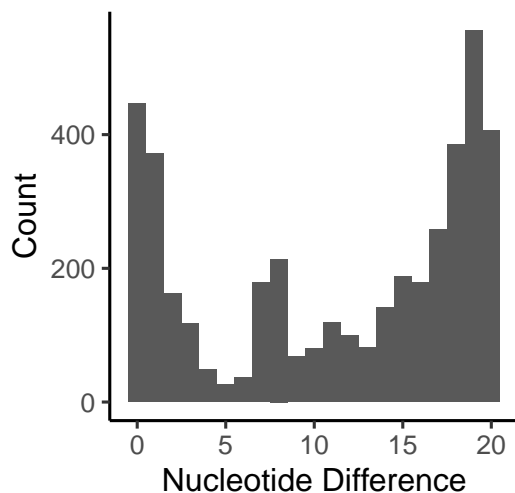
IGHV3-15*01_02

1417 sequences assigned
114 (8%) exact matches, in which:
97 unique CDR3
4 unique J



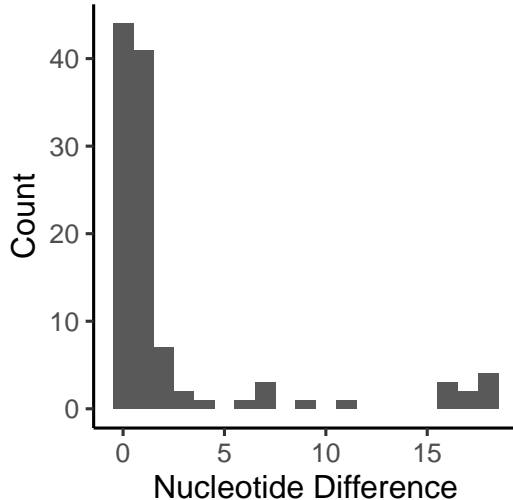
IGHV3-9*01

8945 sequences assigned
447 (5%) exact matches, in which:
330 unique CDR3
7 unique J



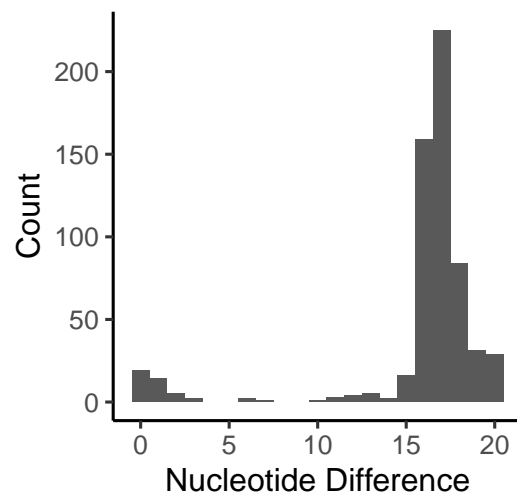
IGHV3-13*01

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



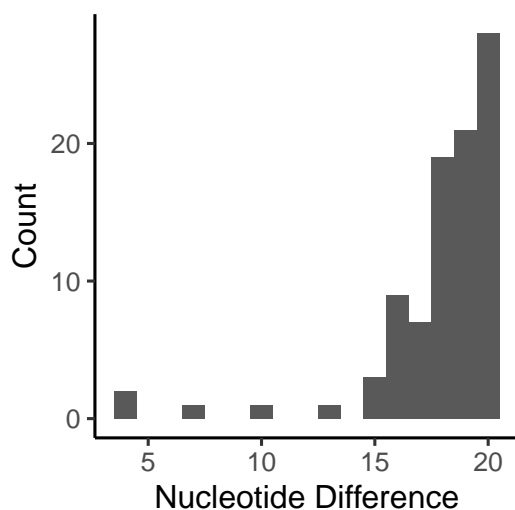
IGHV3-20*01_02

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



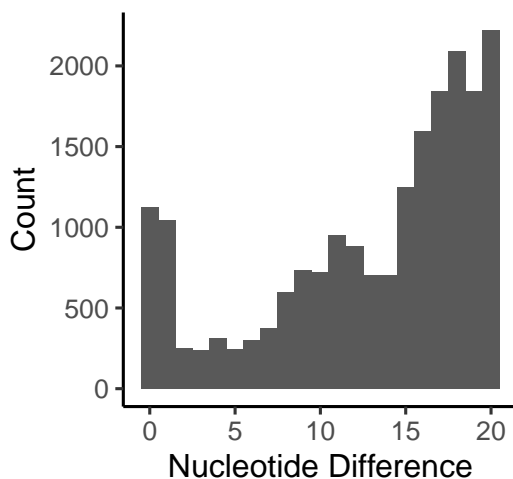
IGHV3-20*03_04

391 sequences assigned
No exact matches.



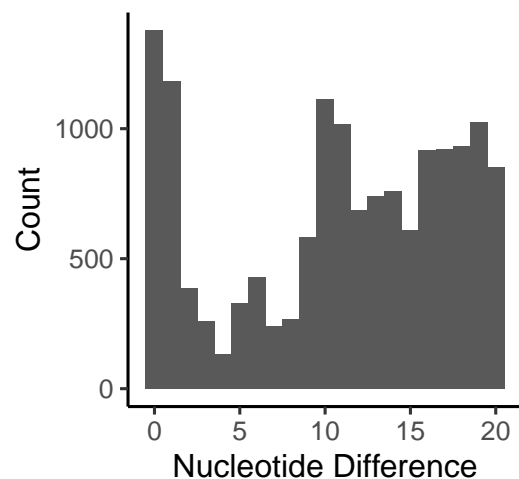
IGHV3-23*01_04

45023 sequences assigned
1125 (2.5%) exact matches, in which:
848 unique CDR3
7 unique J



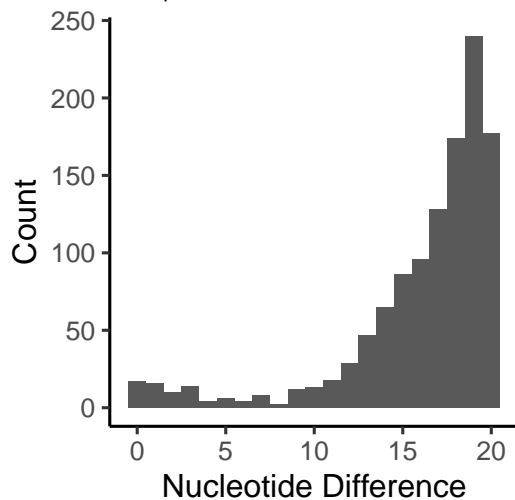
IGHV3-33*01

22849 sequences assigned
1378 (6%) exact matches, in which:
968 unique CDR3
7 unique J



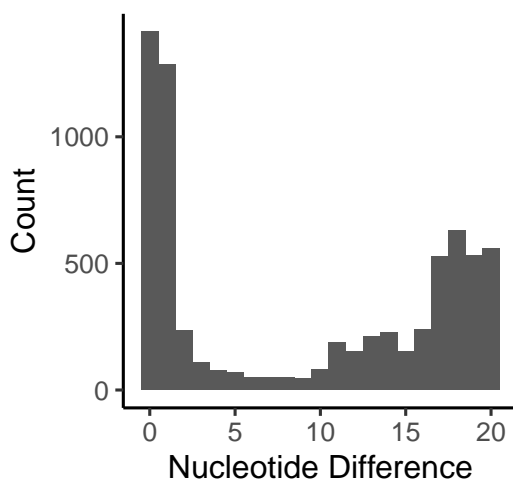
IGHV3-21*04

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



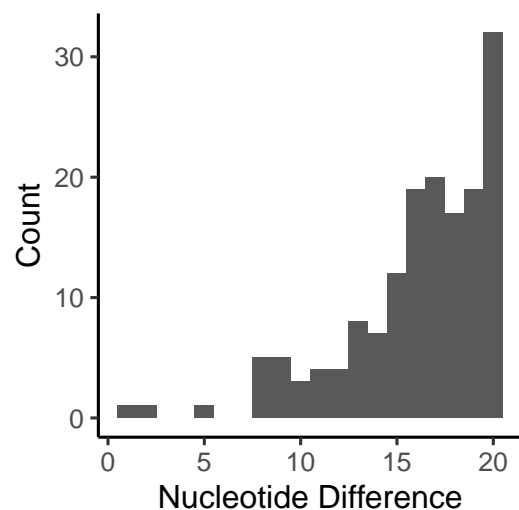
IGHV3-30-3*01

17385 sequences assigned
1415 (8.1%) exact matches, in which:
1135 unique CDR3
6 unique J



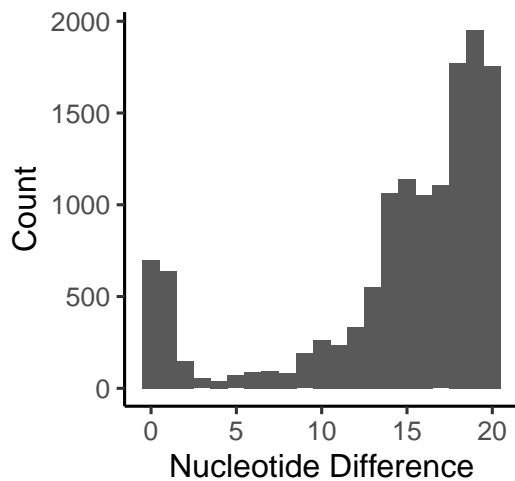
IGHV3-33*05

644 sequences assigned
No exact matches.



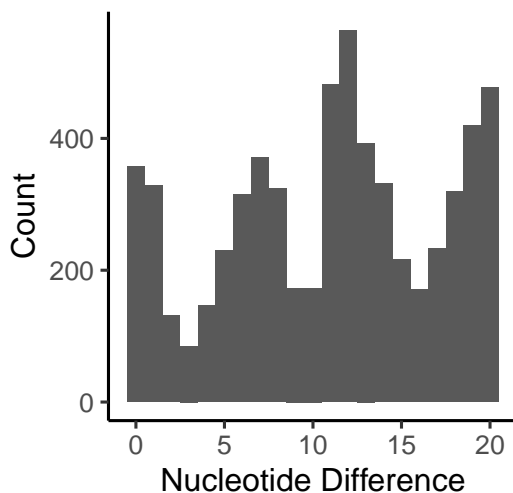
IGHV3-21*01_02

29784 sequences assigned
700 (2.4%) exact matches, in which:
522 unique CDR3
6 unique J



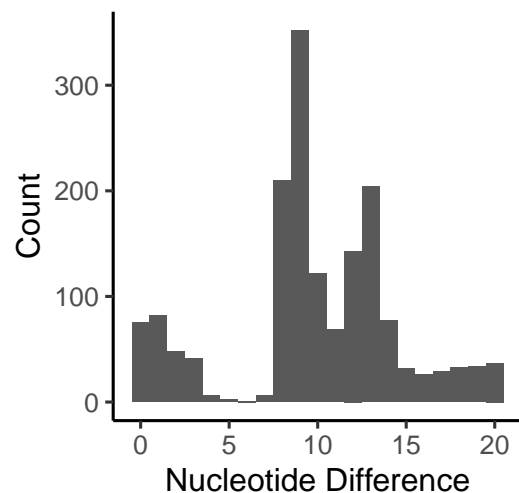
IGHV3-30*03

9540 sequences assigned
358 (3.8%) exact matches, in which:
299 unique CDR3
6 unique J



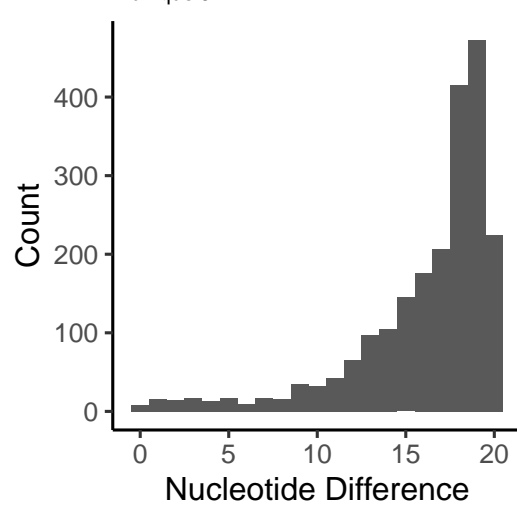
IGHV3-43*01

1947 sequences assigned
75 (3.9%) exact matches, in which:
60 unique CDR3
3 unique J



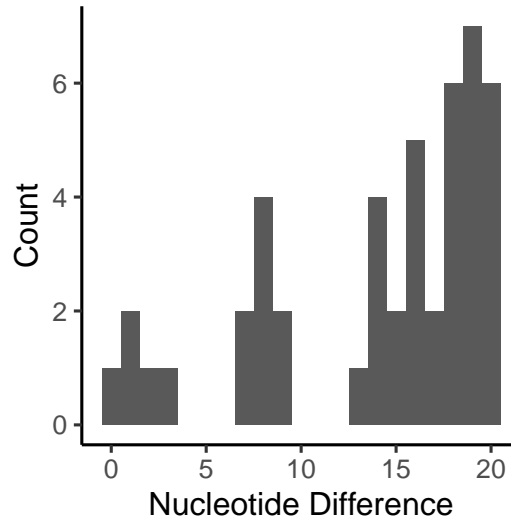
IGHV3-48*01

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



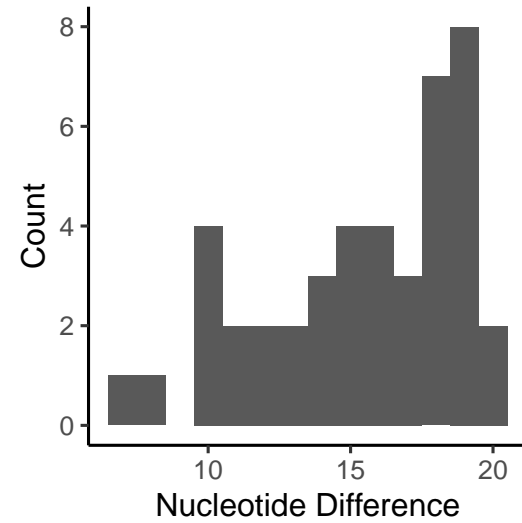
IGHV3-53*05

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



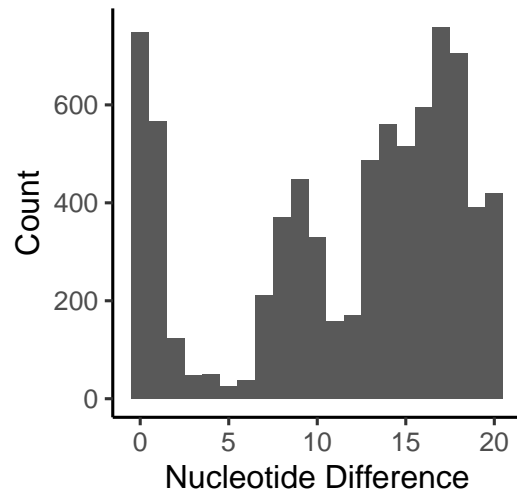
IGHV3-66*02

104 sequences assigned
No exact matches.



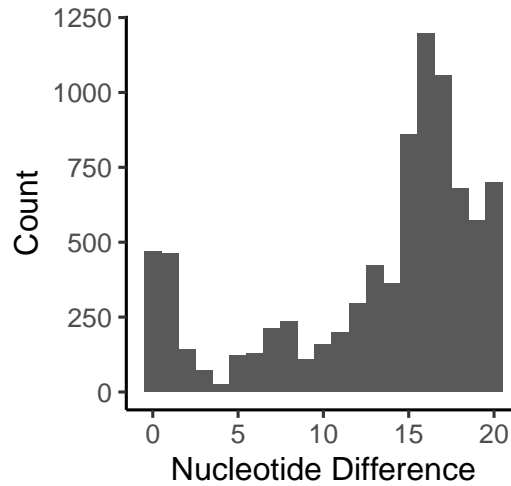
IGHV3-48*02

15254 sequences assigned
748 (4.9%) exact matches, in which:
538 unique CDR3
6 unique J



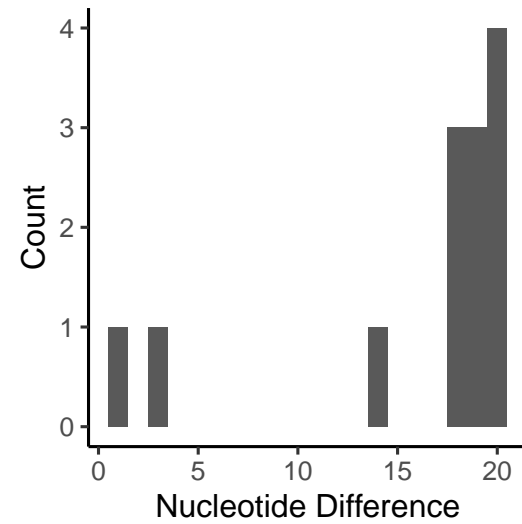
IGHV3-53*01_02

14587 sequences assigned
469 (3.2%) exact matches, in which:
371 unique CDR3
5 unique J



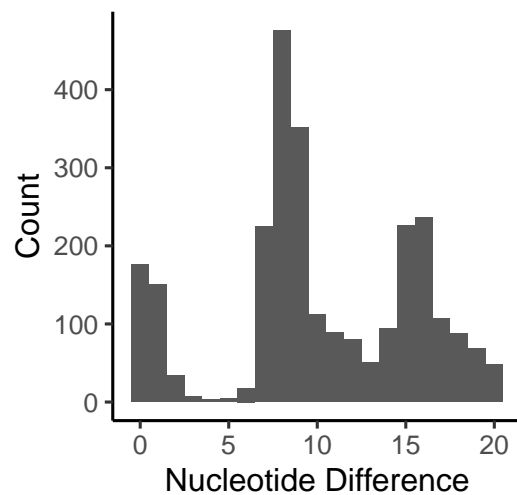
IGHV3-66*03

37 sequences assigned
No exact matches.



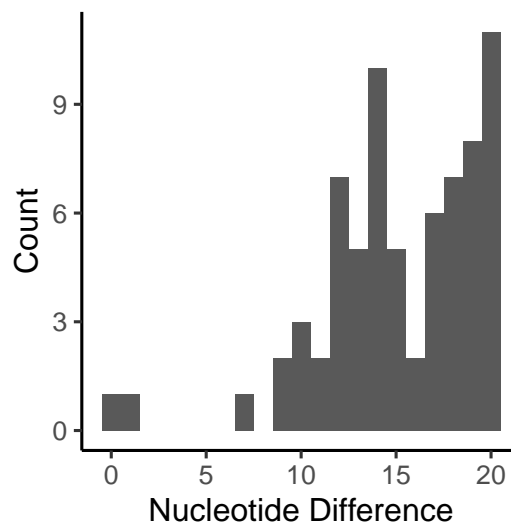
IGHV3-49*03_05

2955 sequences assigned
176 (6%) exact matches, in which:
136 unique CDR3
5 unique J



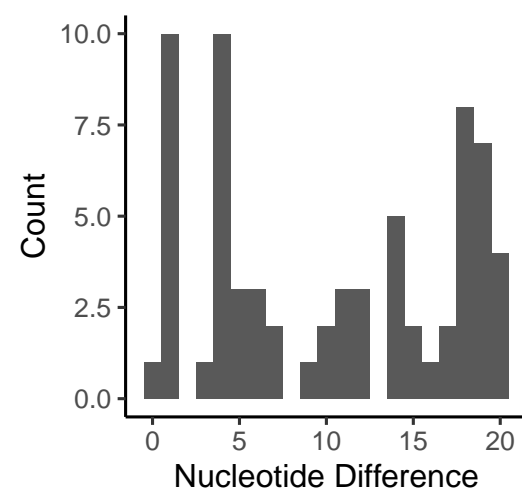
IGHV3-66*01

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



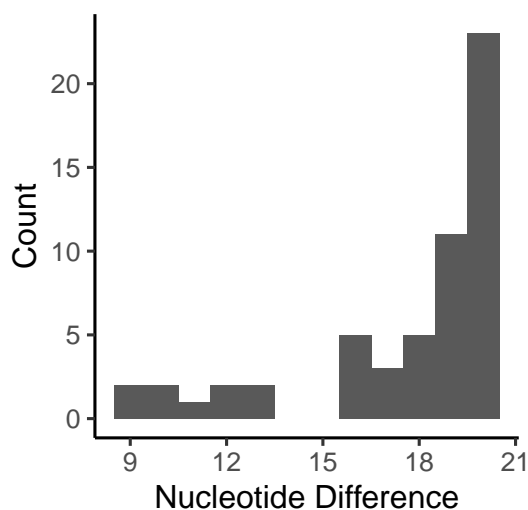
IGHV3-69-1*01

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



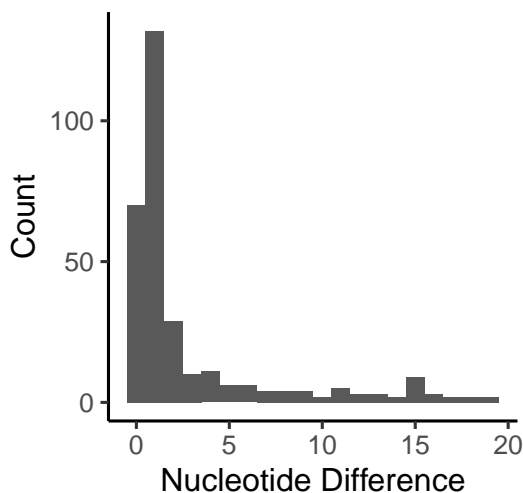
IGHV3-69-1*02

816 sequences assigned
No exact matches.



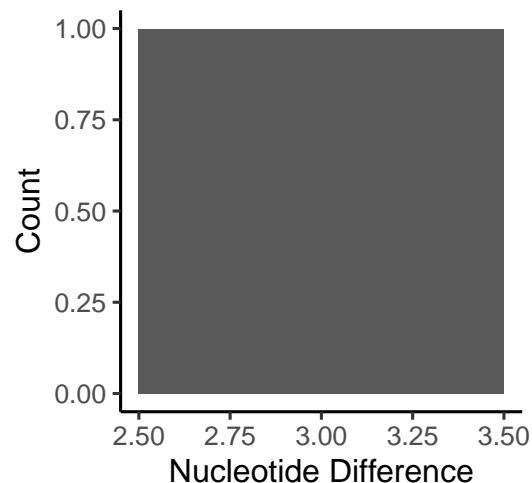
IGHV3-73*01_02_A182G

323 sequences assigned
70 (21.7%) exact matches, in which:
48 unique CDR3
4 unique J



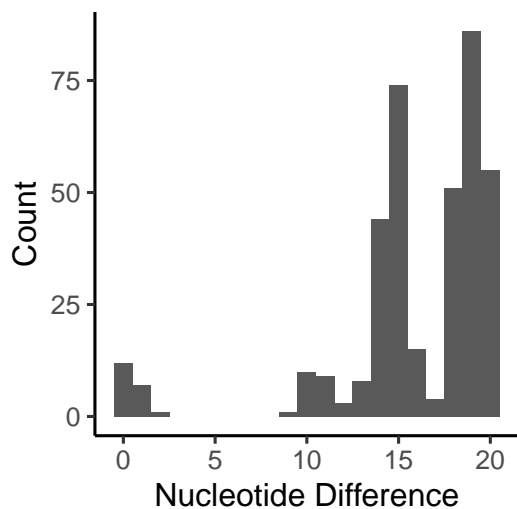
IGHV3-43D*04

21 sequences assigned
No exact matches.



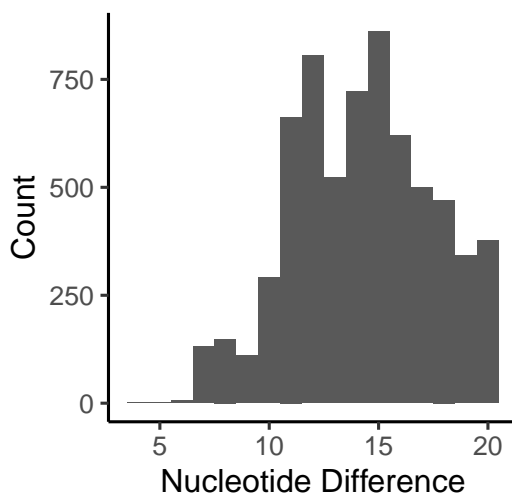
IGHV3-72*01

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



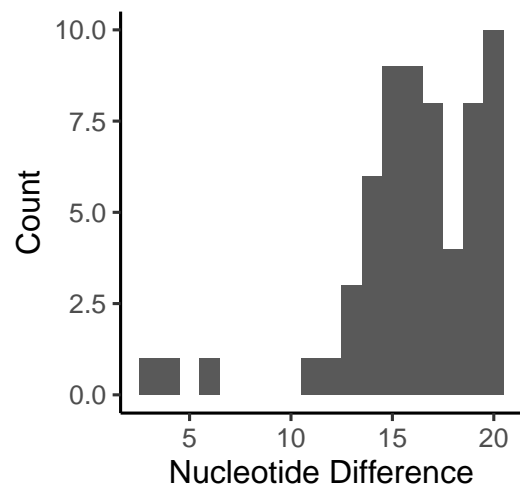
IGHV3-74*03

10812 sequences assigned
No exact matches.



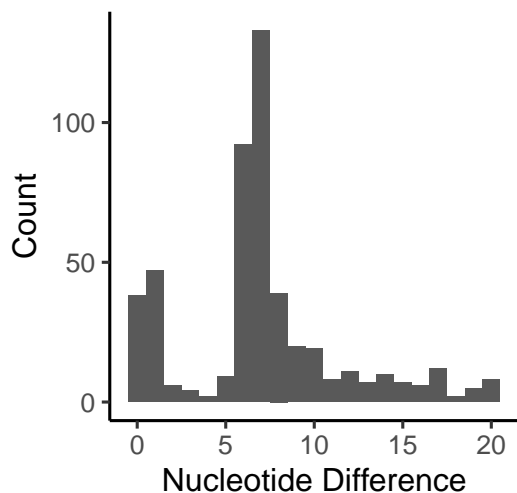
IGHV3-NL1*01

176 sequences assigned
No exact matches.



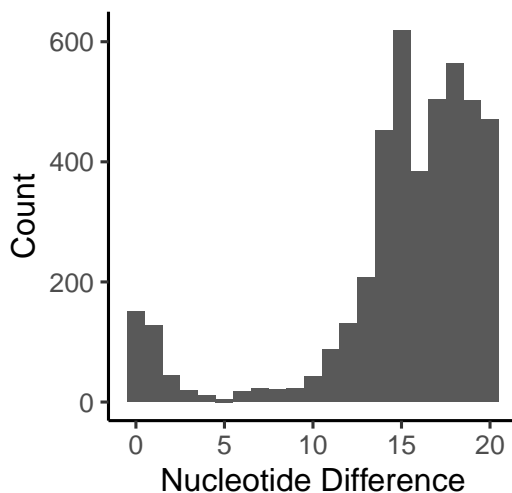
IGHV3-73*01_02

506 sequences assigned
38 (7.5%) exact matches, in which:
29 unique CDR3
4 unique J



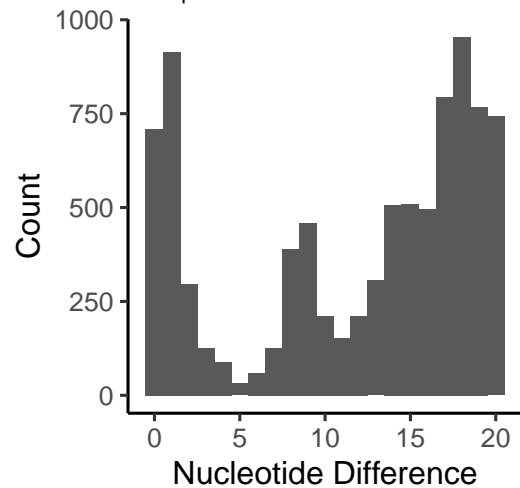
IGHV3-74*01_02

8277 sequences assigned
151 (1.8%) exact matches, in which:
108 unique CDR3
5 unique J



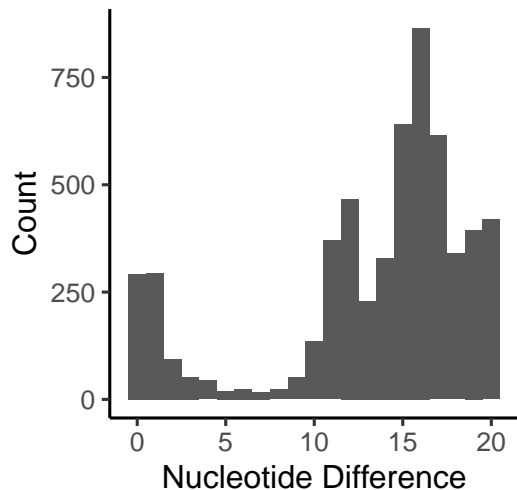
IGHV4-4*07

22980 sequences assigned
710 (3.1%) exact matches, in which:
492 unique CDR3
6 unique J



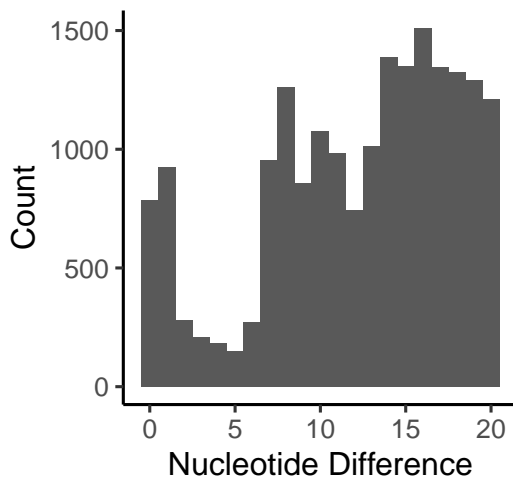
IGHV4-4*02_03

10339 sequences assigned
293 (2.8%) exact matches, in which:
207 unique CDR3
7 unique J



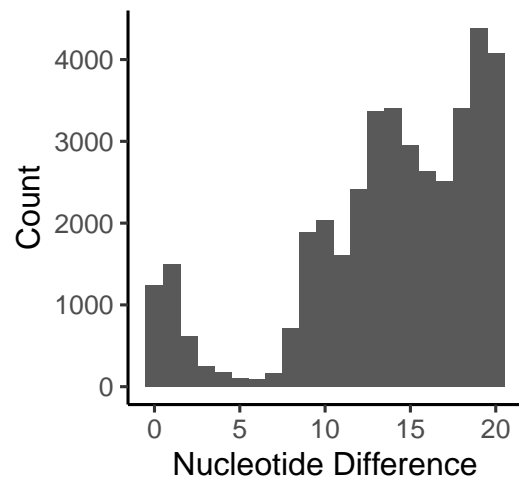
IGHV4-30-4*01

37646 sequences assigned
787 (2.1%) exact matches, in which:
526 unique CDR3
6 unique J



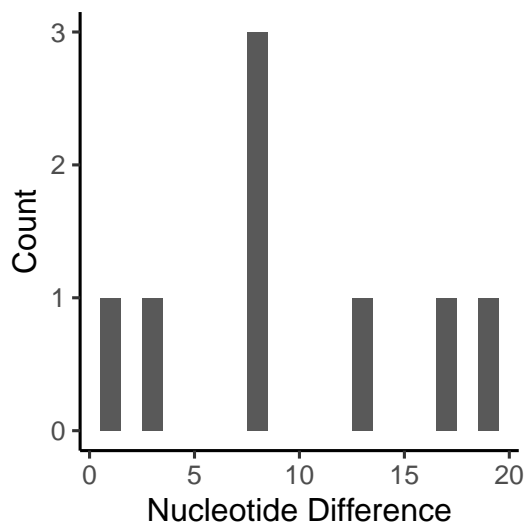
IGHV4-34*01_02

75273 sequences assigned
1247 (1.7%) exact matches, in which:
843 unique CDR3
7 unique J



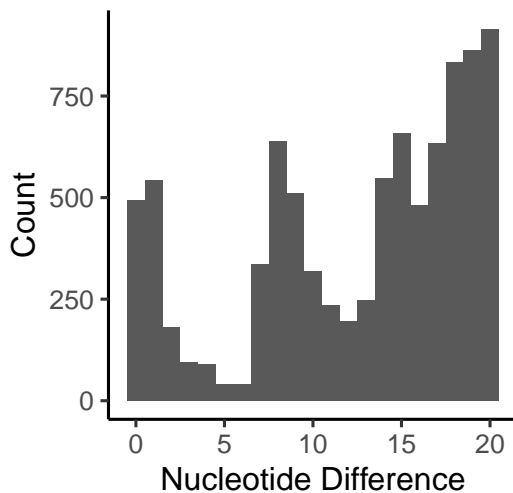
IGHV4-28*03

24 sequences assigned
No exact matches.



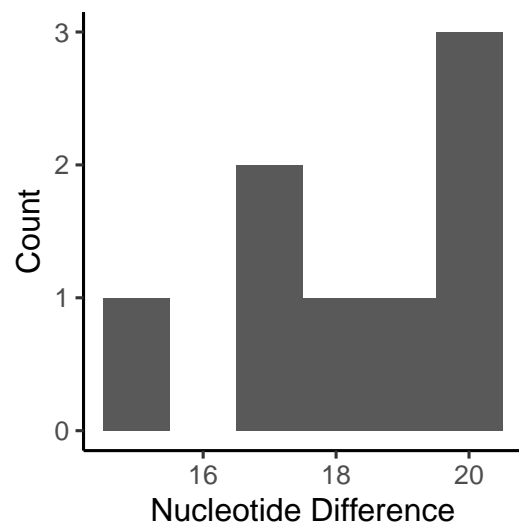
IGHV4-30-2*01

40007 sequences assigned
493 (1.2%) exact matches, in which:
332 unique CDR3
5 unique J



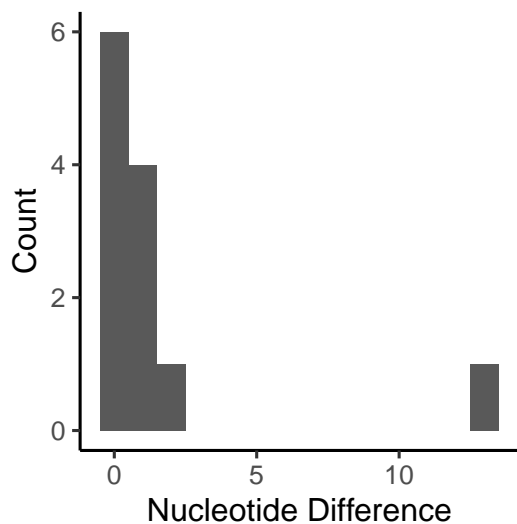
IGHV4-38-2*01

45 sequences assigned
No exact matches.



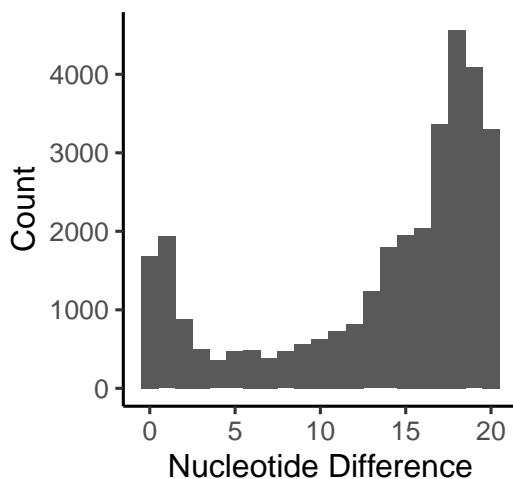
IGHV4-28*01_07

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



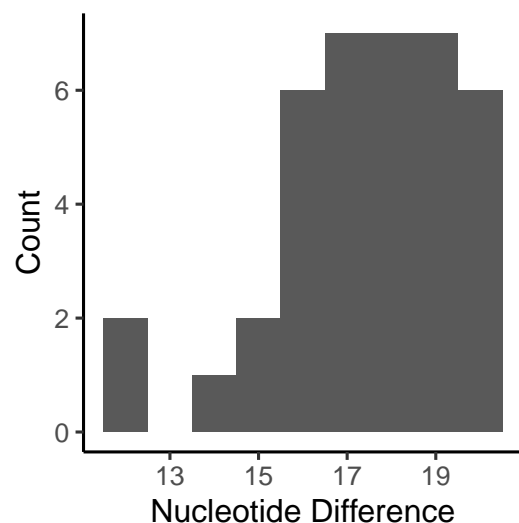
IGHV4-31*02

75079 sequences assigned
1684 (2.2%) exact matches, in which:
1142 unique CDR3
6 unique J



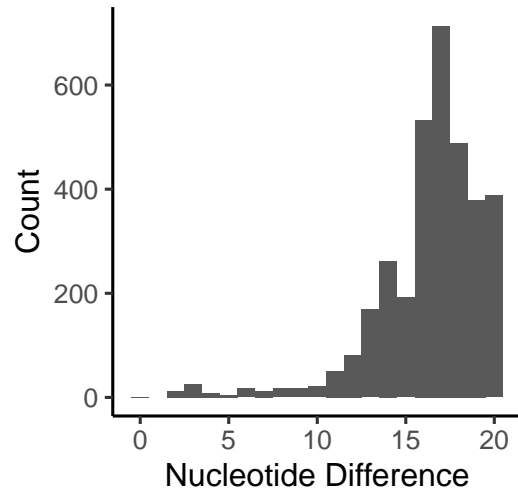
IGHV4-38-2*02

114 sequences assigned
No exact matches.



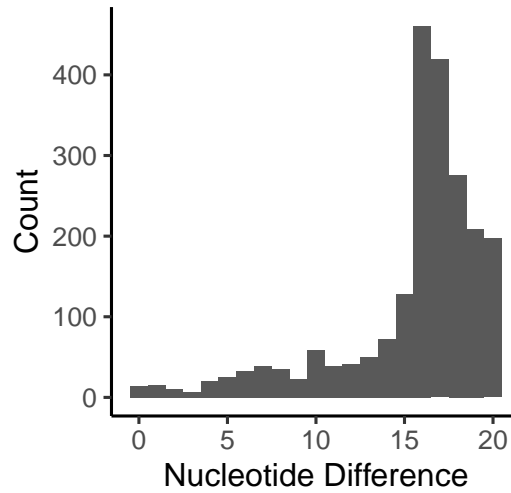
IGHV4–39*02

26806 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



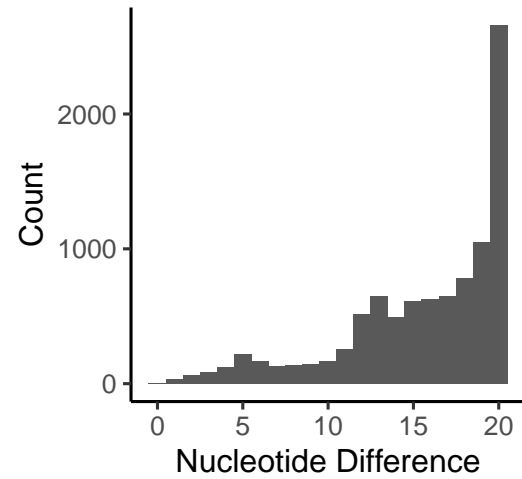
IGHV4–59*11

7091 sequences assigned
14 (0.2%) exact matches, in which:
12 unique CDR3
5 unique J



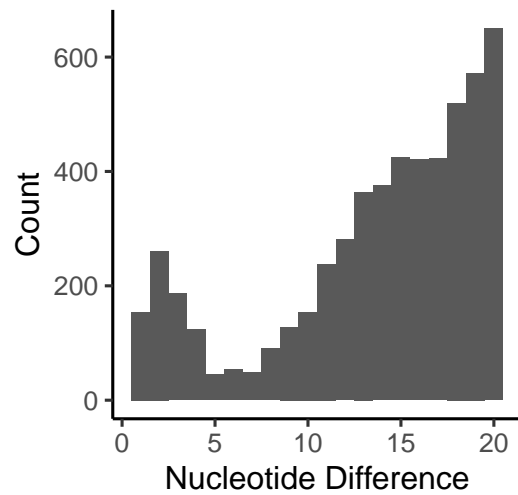
IGHV4–61*08

75263 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



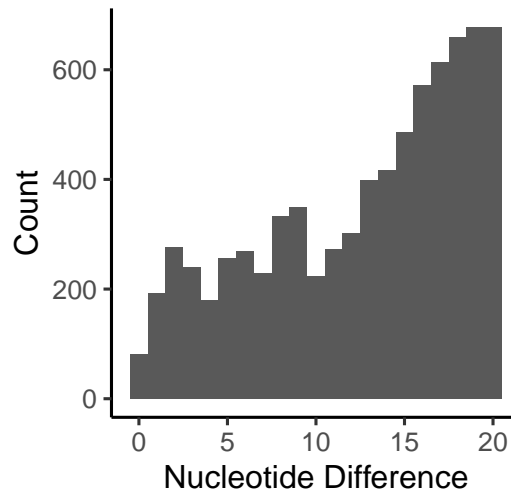
IGHV4–39*07

13912 sequences assigned
No exact matches.



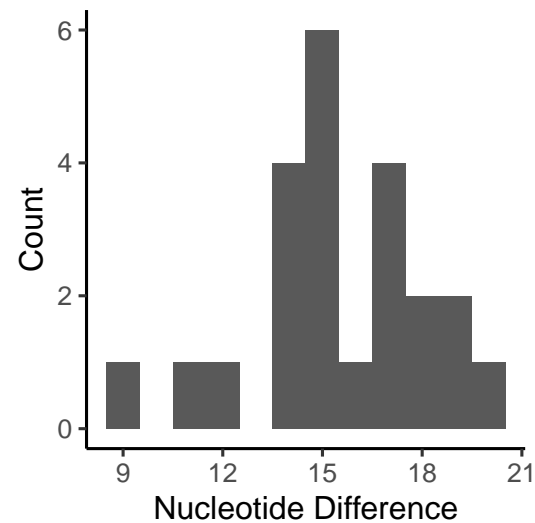
IGHV4–59*12

15042 sequences assigned
82 (0.5%) exact matches, in which:
75 unique CDR3
6 unique J



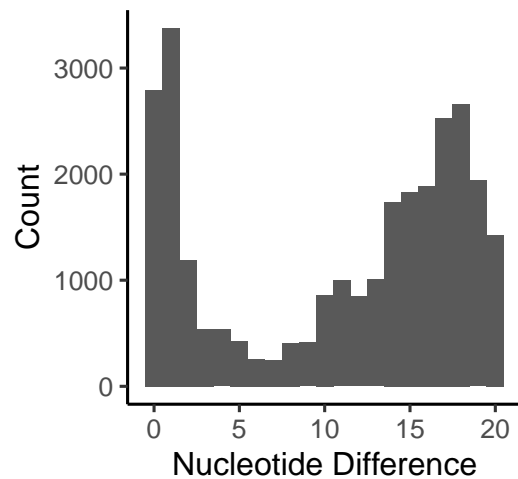
IGHV4/OR15–8*01

100 sequences assigned
No exact matches.



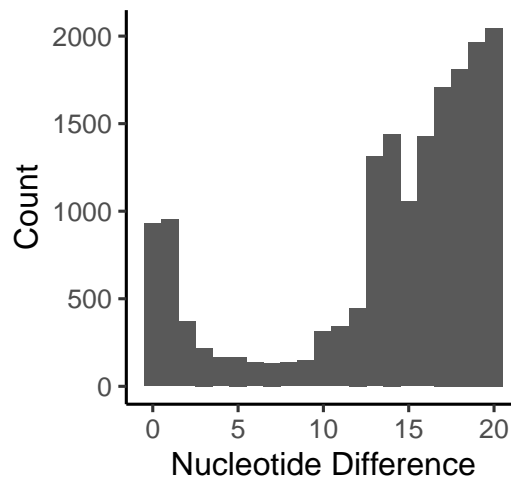
IGHV4–59*01_07

49287 sequences assigned
2794 (5.7%) exact matches, in which:
1699 unique CDR3
7 unique J



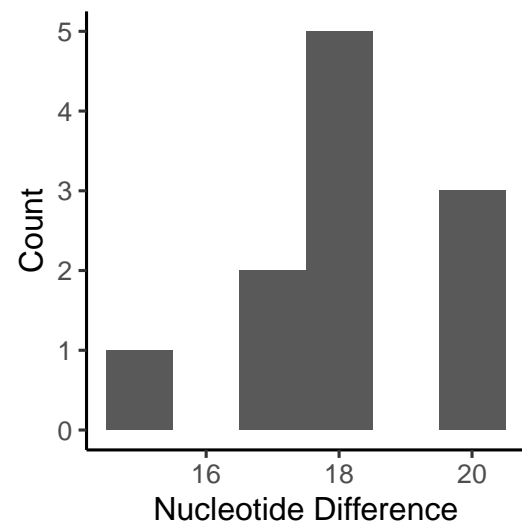
IGHV4–61*01

43327 sequences assigned
930 (2.1%) exact matches, in which:
645 unique CDR3
7 unique J



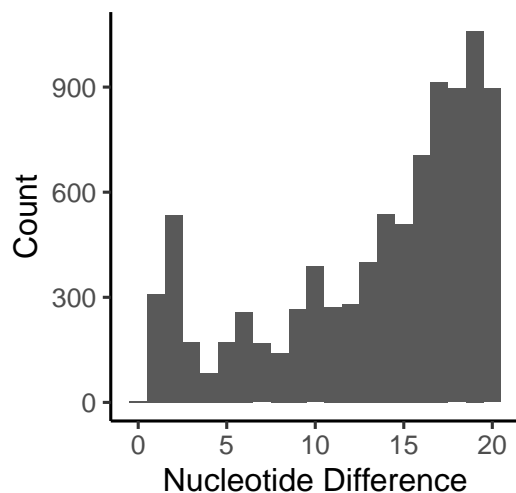
IGHV4/OR15–8*02

58 sequences assigned
No exact matches.



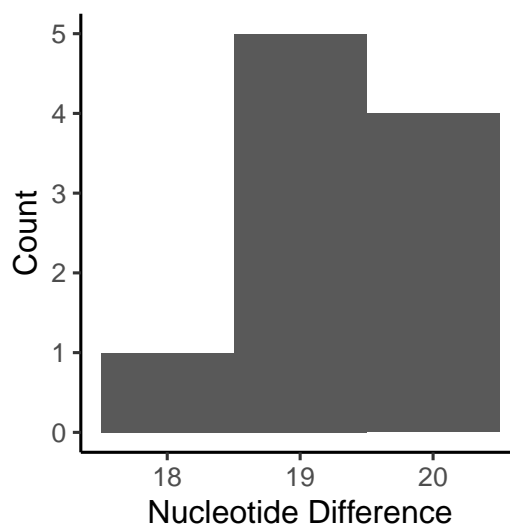
IGHV5–51*07

18515 sequences assigned
5 (0%) exact matches, in which:
5 unique CDR3
4 unique J



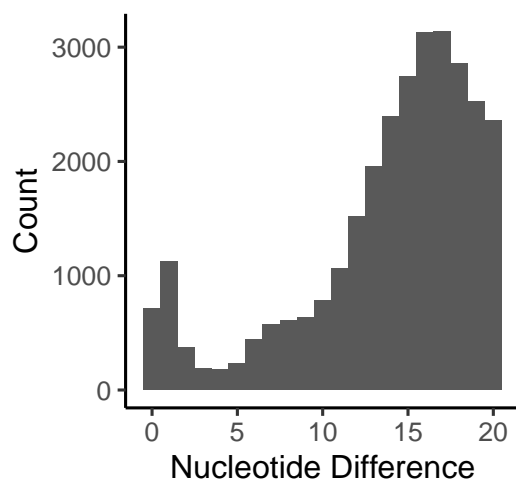
IGHV3/OR16–10*01_03

57 sequences assigned
No exact matches.



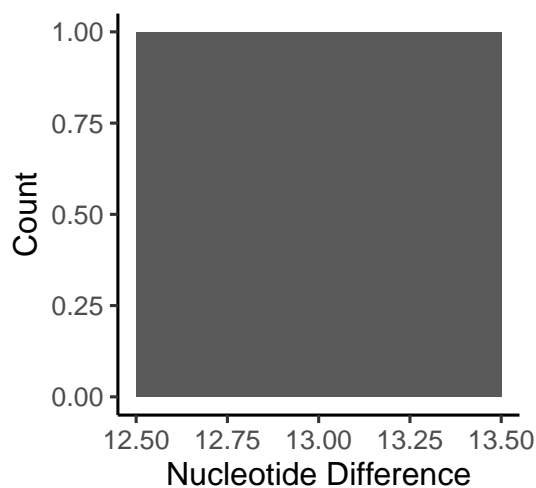
IGHV5–51*01_03

45911 sequences assigned
714 (1.6%) exact matches, in which:
507 unique CDR3
6 unique J



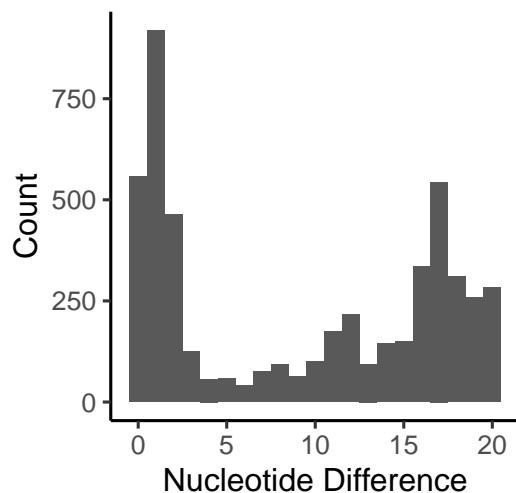
IGHV7–4–1*02

119 sequences assigned
No exact matches.

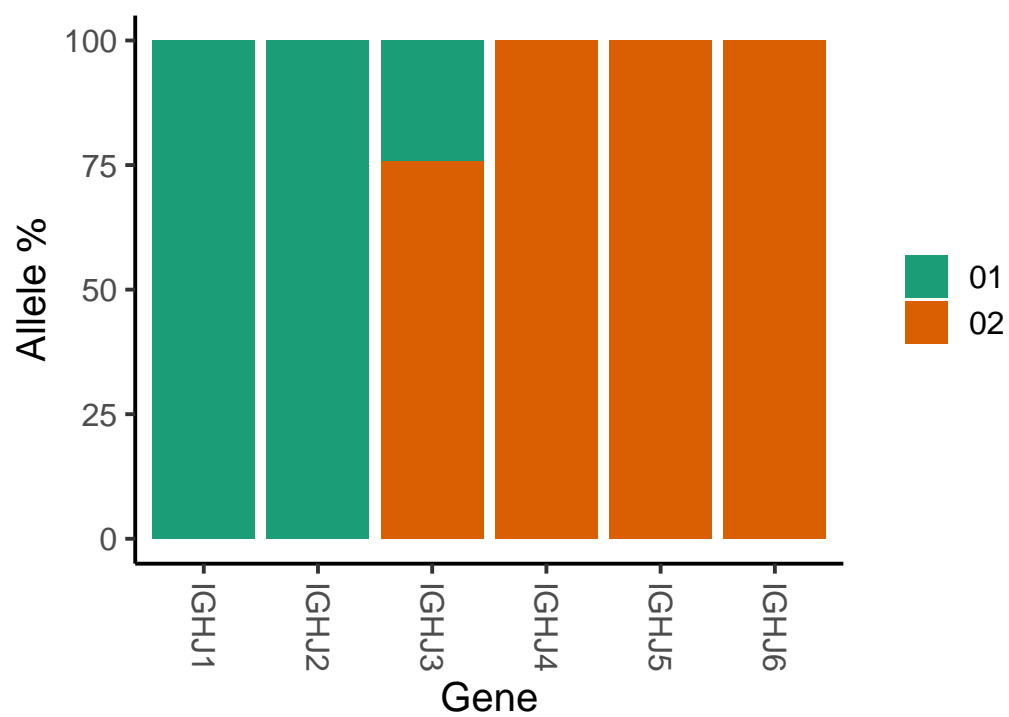


IGHV6–1*01_02

5463 sequences assigned
558 (10.2%) exact matches, in which:
379 unique CDR3
5 unique J



Allele Usage



Warning – no inferred sequences found.