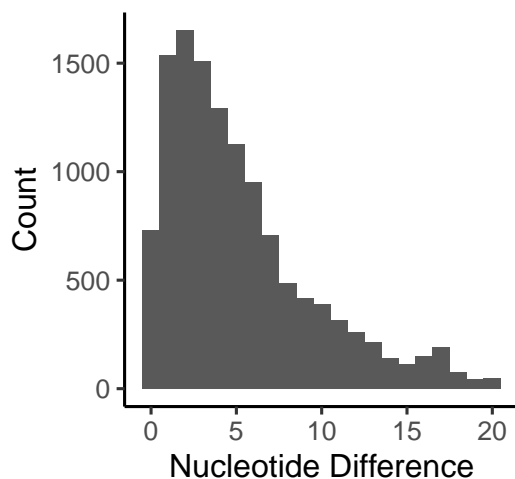


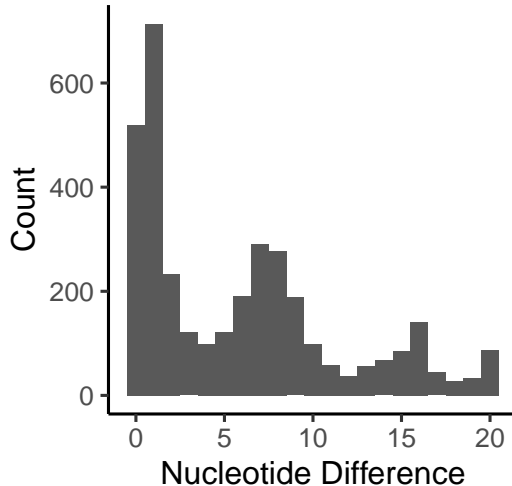
IGHV1-2*04

12560 sequences assigned
730 (5.8%) exact matches, in which:
598 unique CDR3
6 unique J



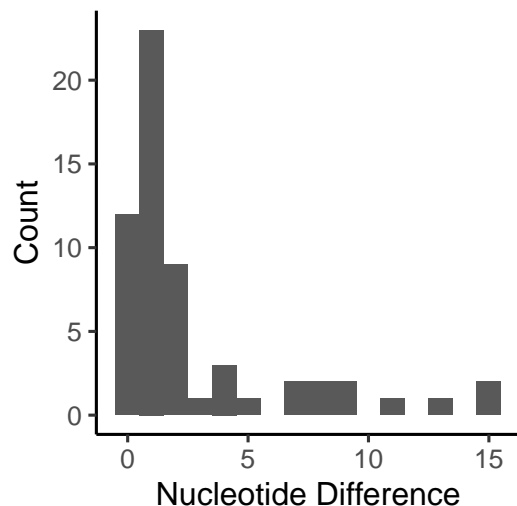
IGHV1-8*01

4010 sequences assigned
519 (12.9%) exact matches, in which:
418 unique CDR3
6 unique J



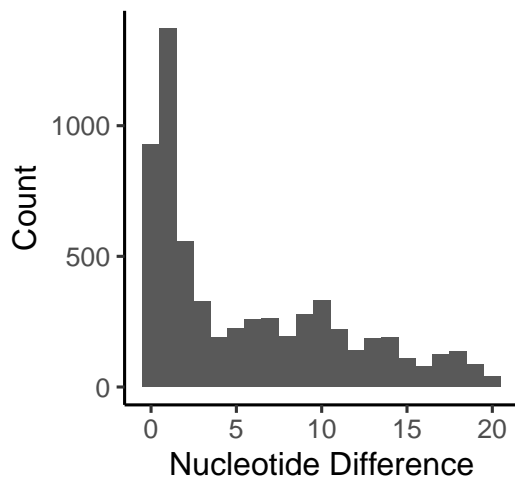
IGHV1-45*02

59 sequences assigned
12 (20.3%) exact matches, in which:
10 unique CDR3
3 unique J



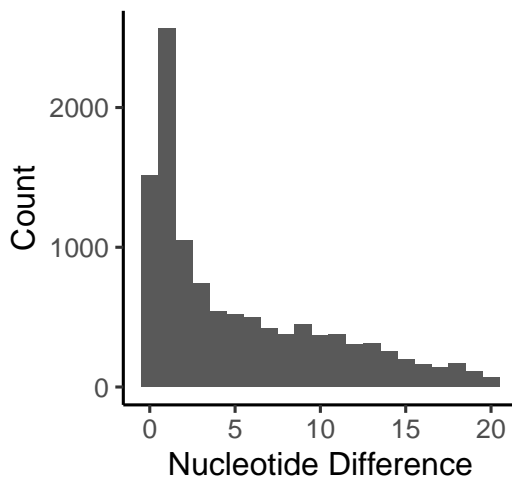
IGHV1-2*06

6535 sequences assigned
927 (14.2%) exact matches, in which:
692 unique CDR3
6 unique J



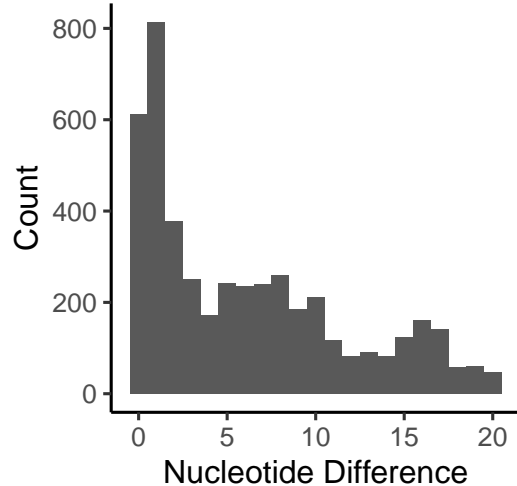
IGHV1-18*01

14346 sequences assigned
1516 (10.6%) exact matches, in which:
1141 unique CDR3
6 unique J



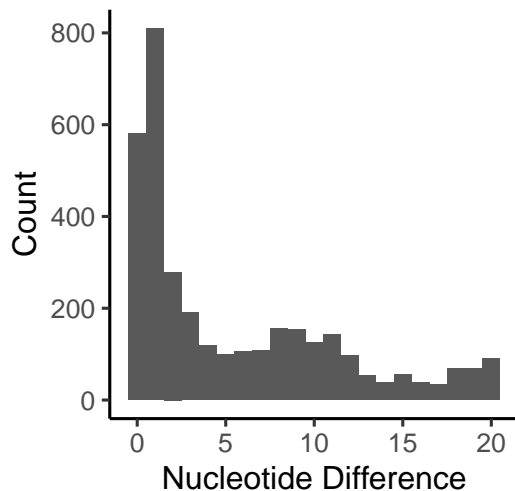
IGHV1-46*01

5076 sequences assigned
612 (12.1%) exact matches, in which:
502 unique CDR3
6 unique J



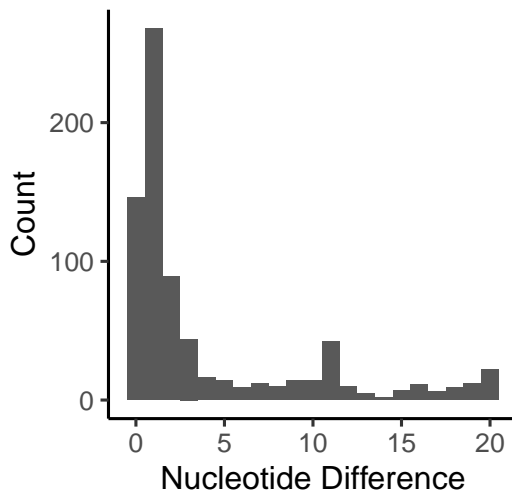
IGHV1-3*01_05

3618 sequences assigned
581 (16.1%) exact matches, in which:
425 unique CDR3
6 unique J



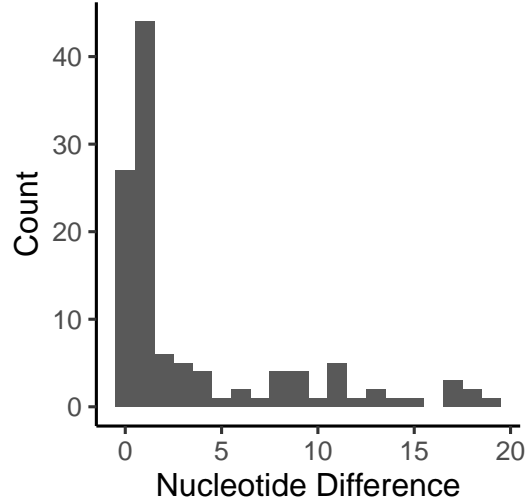
IGHV1-24*01

809 sequences assigned
146 (18%) exact matches, in which:
87 unique CDR3
5 unique J



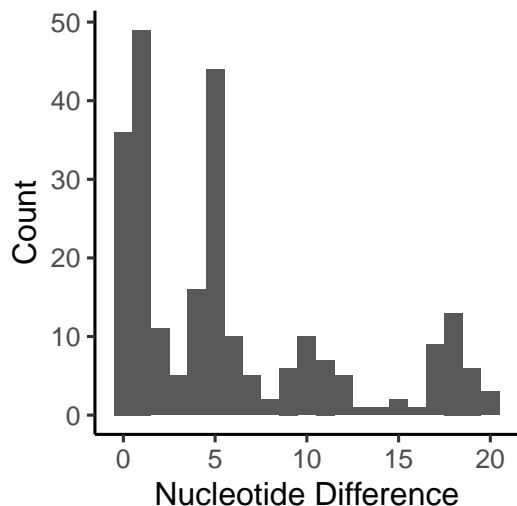
IGHV1-58*02

116 sequences assigned
27 (23.3%) exact matches, in which:
22 unique CDR3
3 unique J



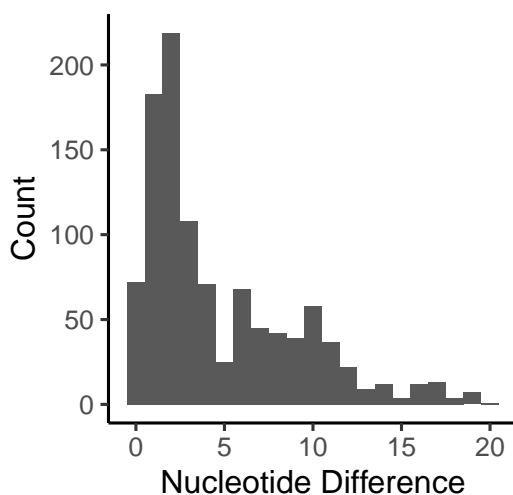
IGHV1-58*01_03

249 sequences assigned
36 (14.5%) exact matches, in which:
27 unique CDR3
5 unique J



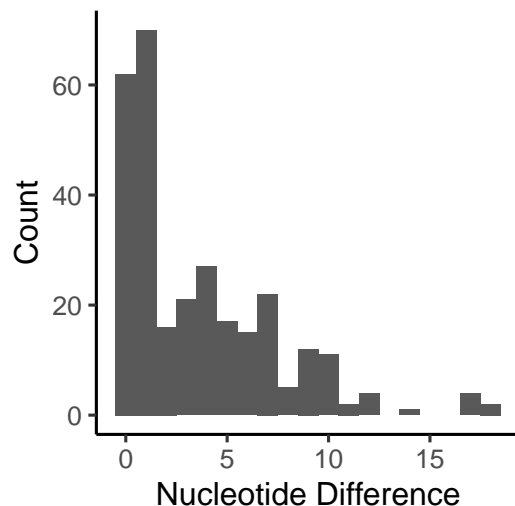
IGHV1-69*04_09

1176 sequences assigned
72 (6.1%) exact matches, in which:
68 unique CDR3
5 unique J



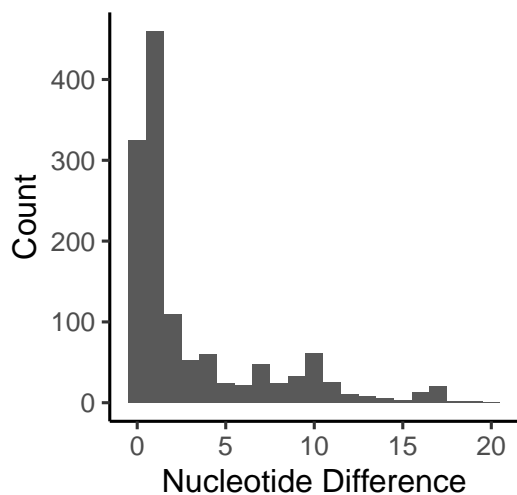
IGHV2-26*01

292 sequences assigned
62 (21.2%) exact matches, in which:
46 unique CDR3
4 unique J



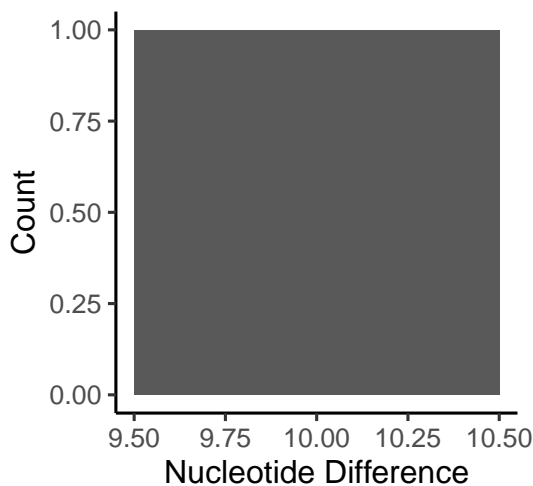
IGHV1-69*02

1409 sequences assigned
325 (23.1%) exact matches, in which:
258 unique CDR3
6 unique J



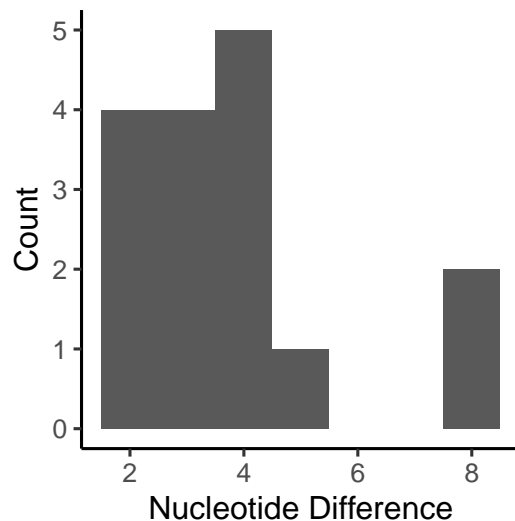
IGHV1-NL1*01

2 sequences assigned
No exact matches.



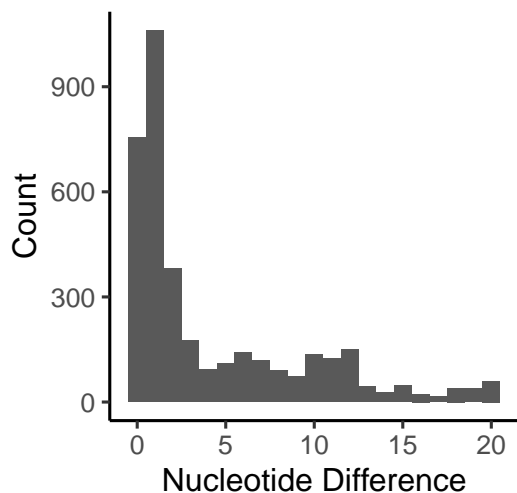
IGHV2-70*12

16 sequences assigned
No exact matches.



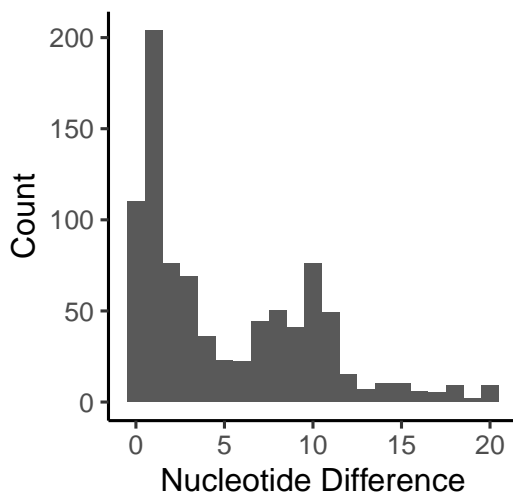
IGHV1-69*01_12_13

3861 sequences assigned
754 (19.5%) exact matches, in which:
614 unique CDR3
6 unique J



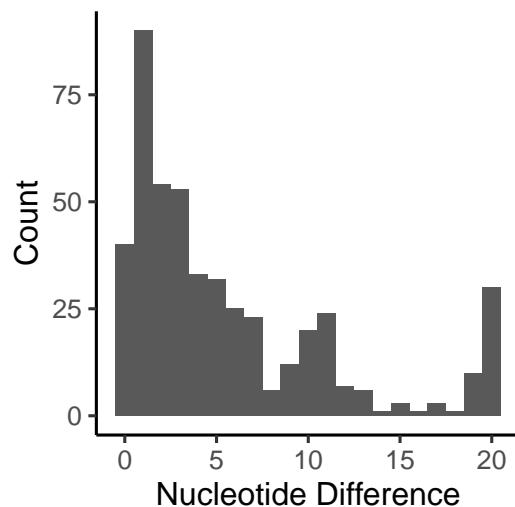
IGHV2-5*02

883 sequences assigned
110 (12.5%) exact matches, in which:
82 unique CDR3
5 unique J



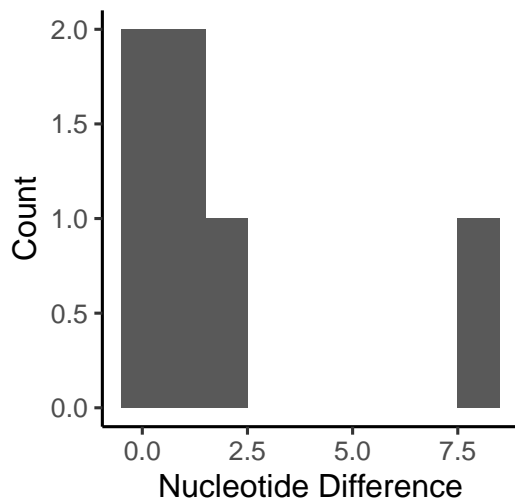
IGHV2-70*11_15

567 sequences assigned
40 (7.1%) exact matches, in which:
33 unique CDR3
4 unique J



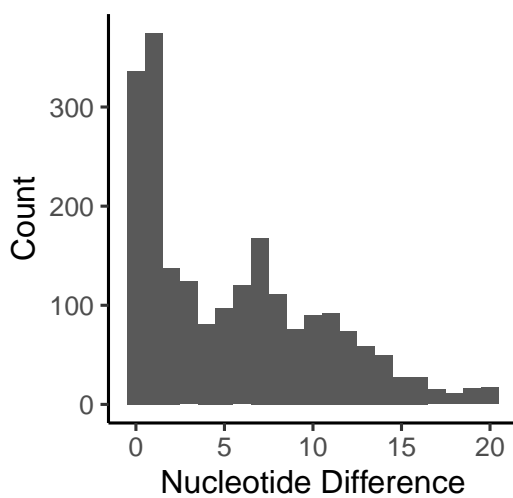
IGHV2-70D*14

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
2 unique J



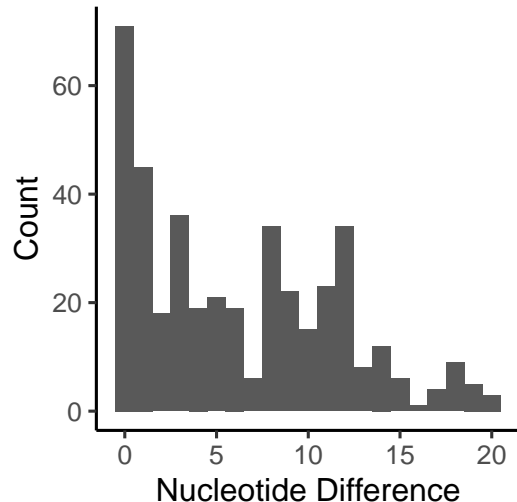
IGHV3-9*01

2677 sequences assigned
336 (12.6%) exact matches, in which:
198 unique CDR3
6 unique J



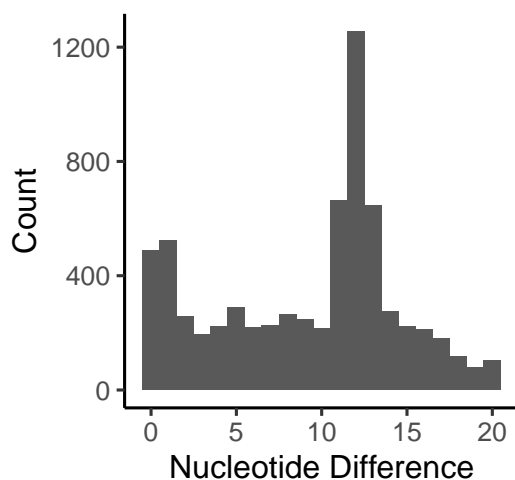
IGHV3-11*06

432 sequences assigned
71 (16.4%) exact matches, in which:
54 unique CDR3
4 unique J



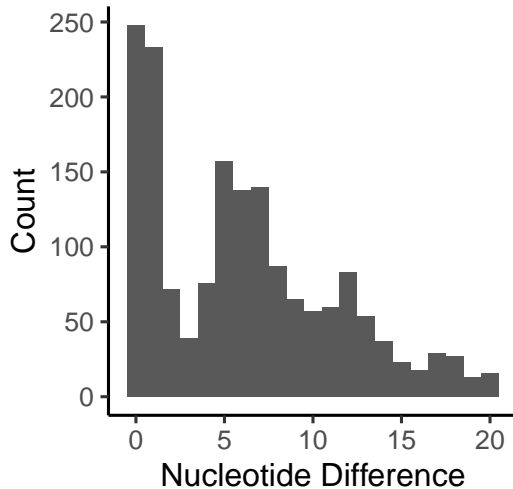
IGHV3-7*01

8996 sequences assigned
489 (5.4%) exact matches, in which:
357 unique CDR3
6 unique J



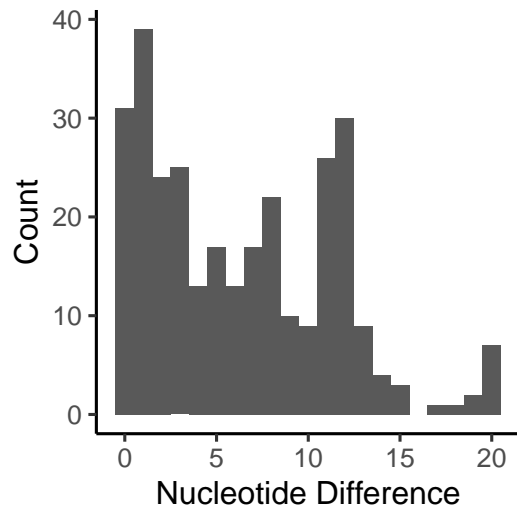
IGHV3-11*01

1848 sequences assigned
248 (13.4%) exact matches, in which:
168 unique CDR3
6 unique J



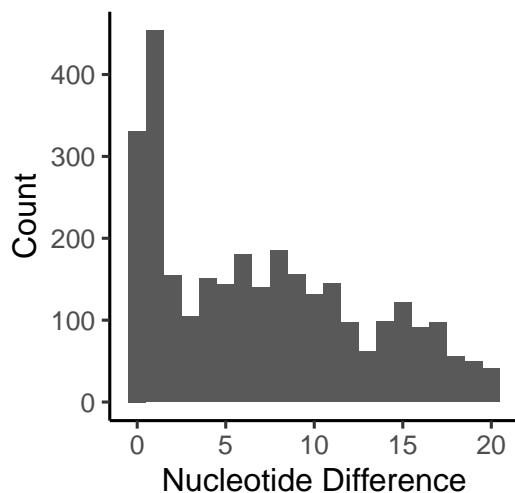
IGHV3-13*01

366 sequences assigned
31 (8.5%) exact matches, in which:
16 unique CDR3
4 unique J



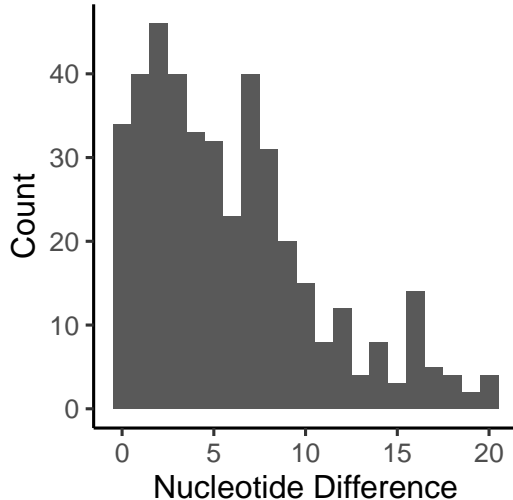
IGHV3-7*03

3437 sequences assigned
331 (9.6%) exact matches, in which:
218 unique CDR3
6 unique J



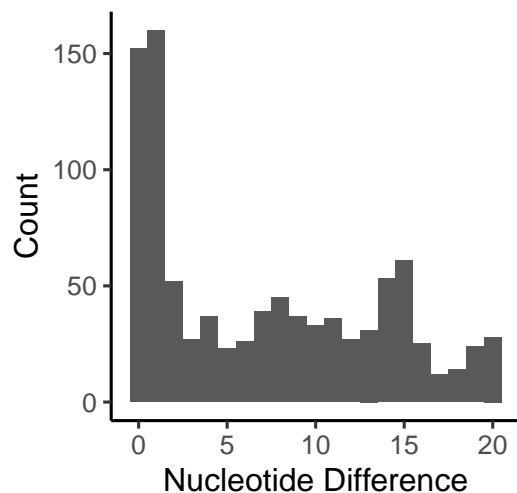
IGHV3-11*04

422 sequences assigned
34 (8.1%) exact matches, in which:
33 unique CDR3
5 unique J



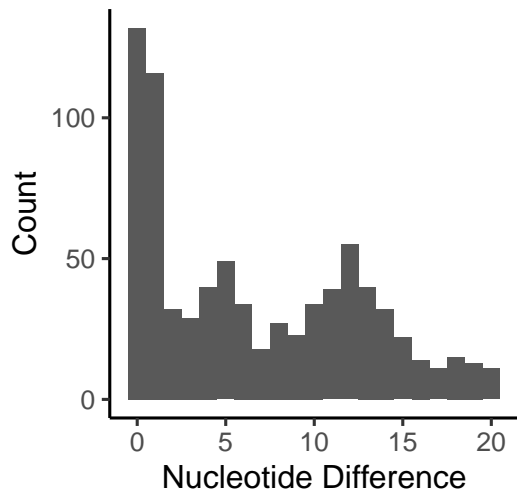
IGHV3-15*07

1089 sequences assigned
152 (14%) exact matches, in which:
91 unique CDR3
6 unique J



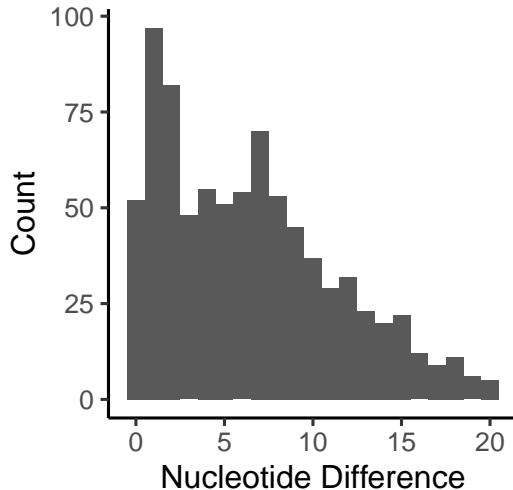
IGHV3-15*01_02

958 sequences assigned
132 (13.8%) exact matches, in which:
83 unique CDR3
5 unique J



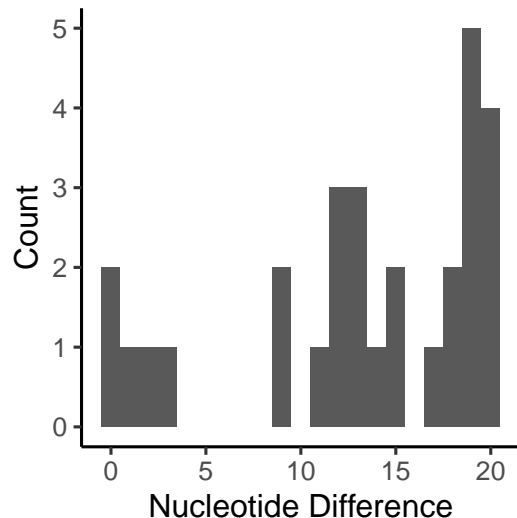
IGHV3-21*04

876 sequences assigned
52 (5.9%) exact matches, in which:
49 unique CDR3
5 unique J



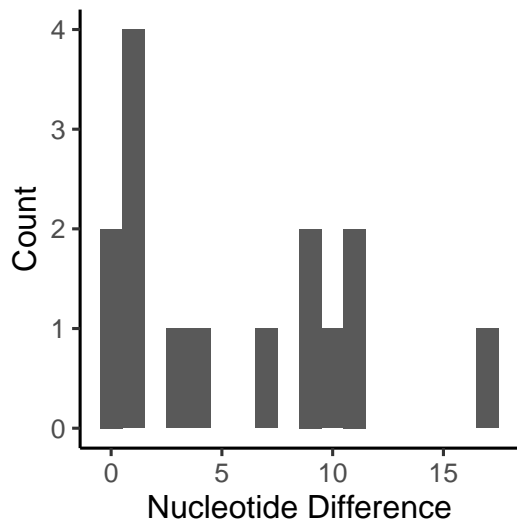
IGHV3-30-3*01

59 sequences assigned
2 (3.4%) exact matches, in which:
2 unique CDR3
2 unique J



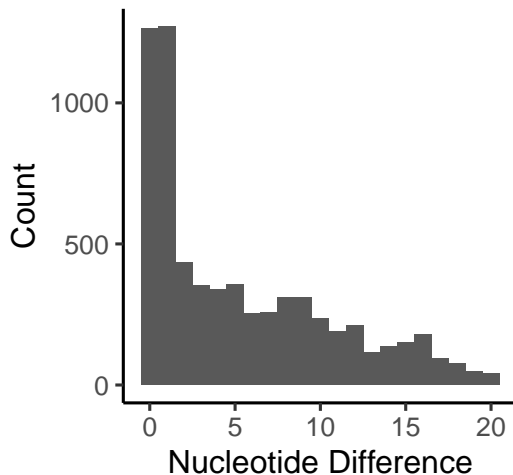
IGHV3-19*01

15 sequences assigned
2 (13.3%) exact matches, in which:
1 unique CDR3
1 unique J



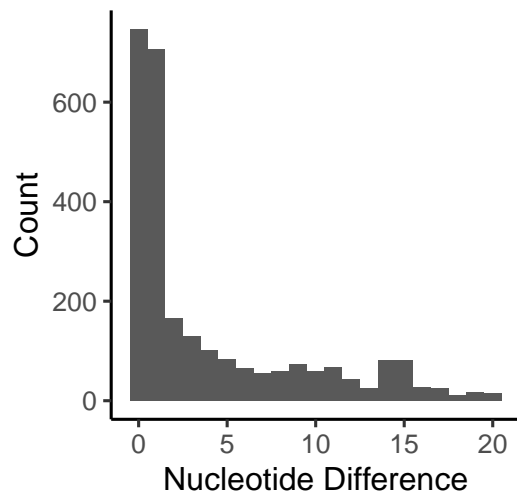
IGHV3-21*01_02

6891 sequences assigned
1264 (18.3%) exact matches, in which:
799 unique CDR3
6 unique J



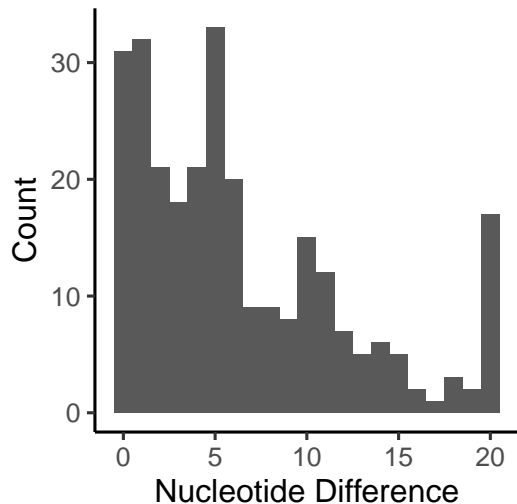
IGHV3-30*01

2701 sequences assigned
747 (27.7%) exact matches, in which:
491 unique CDR3
6 unique J



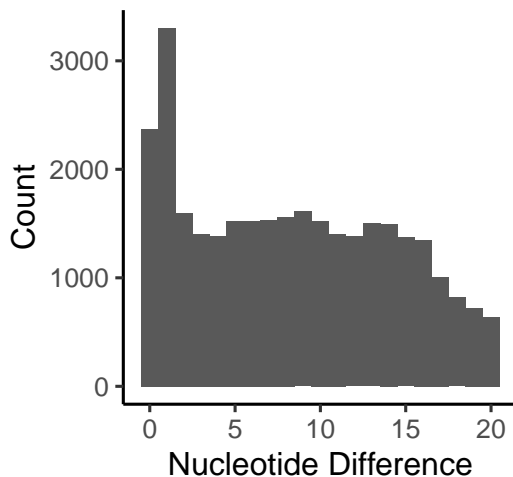
IGHV3-20*03_04

321 sequences assigned
31 (9.7%) exact matches, in which:
19 unique CDR3
3 unique J



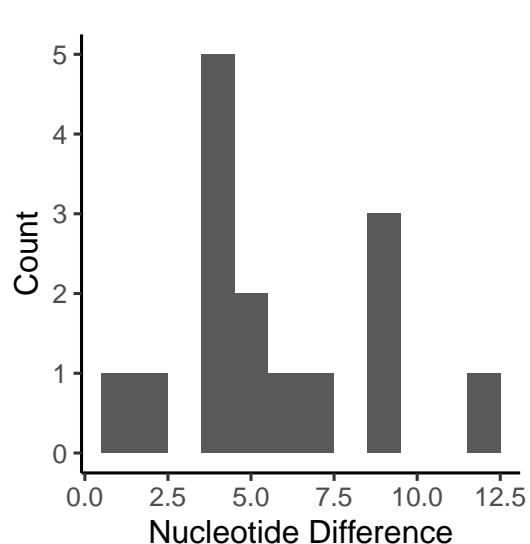
IGHV3-23*01_04

35391 sequences assigned
2373 (6.7%) exact matches, in which:
1385 unique CDR3
6 unique J



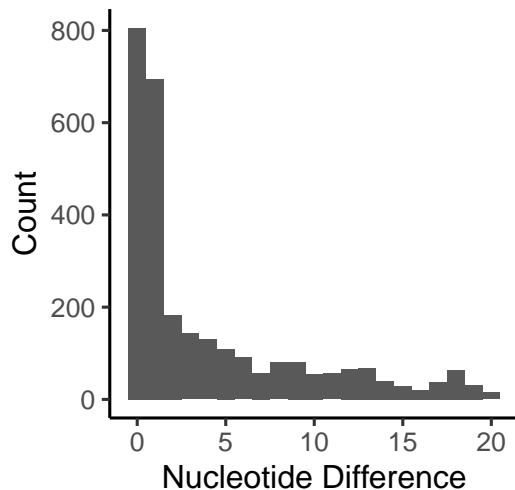
IGHV3-30-3*02

33 sequences assigned
No exact matches.



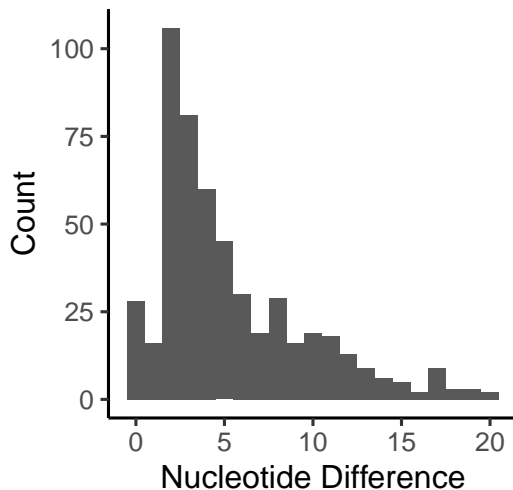
IGHV3–30*04

3066 sequences assigned
806 (26.3%) exact matches, in which:
536 unique CDR3
6 unique J



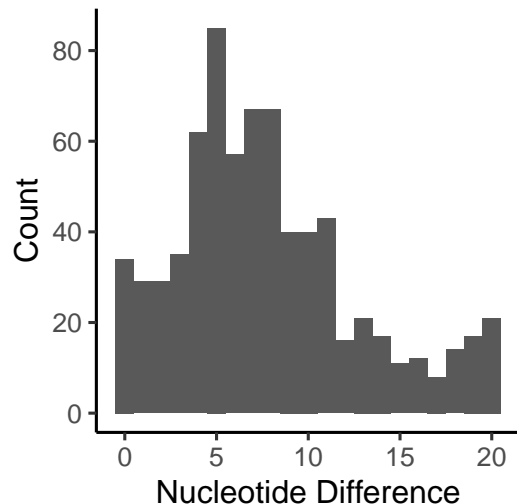
IGHV3–33*06

569 sequences assigned
28 (4.9%) exact matches, in which:
26 unique CDR3
4 unique J



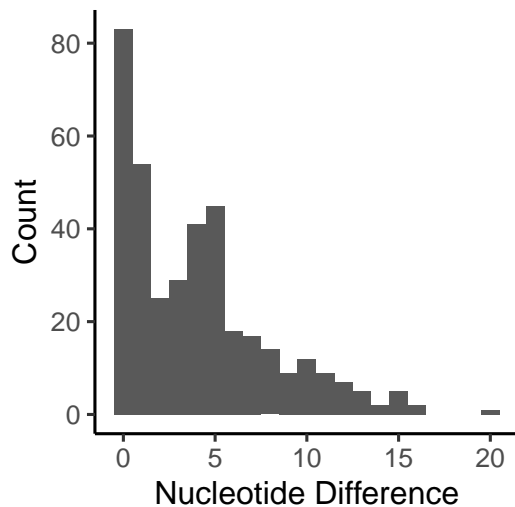
IGHV3–48*01

768 sequences assigned
34 (4.4%) exact matches, in which:
34 unique CDR3
5 unique J



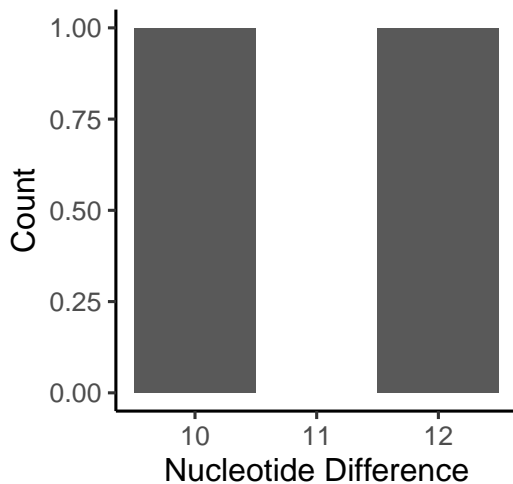
IGHV3–30*07

384 sequences assigned
83 (21.6%) exact matches, in which:
78 unique CDR3
5 unique J



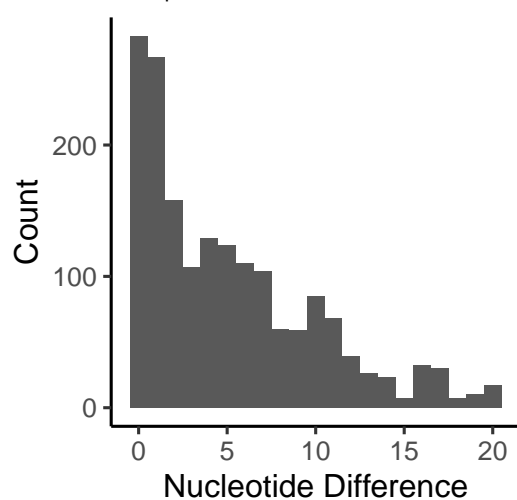
IGHV3–35*01

2 sequences assigned
No exact matches.



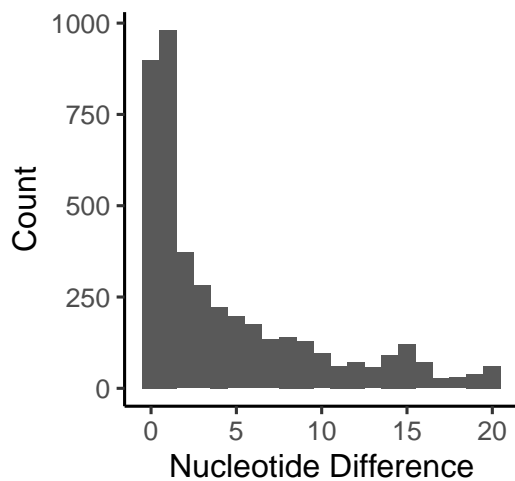
IGHV3–48*02

1886 sequences assigned
283 (15%) exact matches, in which:
175 unique CDR3
5 unique J



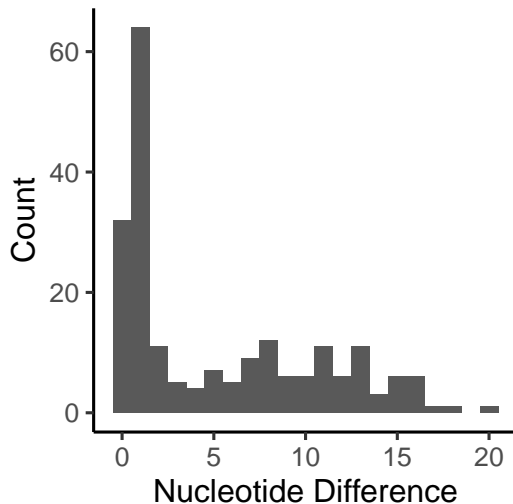
IGHV3–33*01

4497 sequences assigned
899 (20%) exact matches, in which:
571 unique CDR3
6 unique J



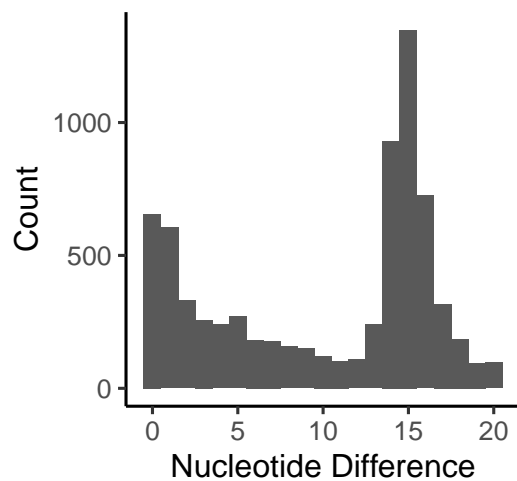
IGHV3–43*01

219 sequences assigned
32 (14.6%) exact matches, in which:
20 unique CDR3
3 unique J



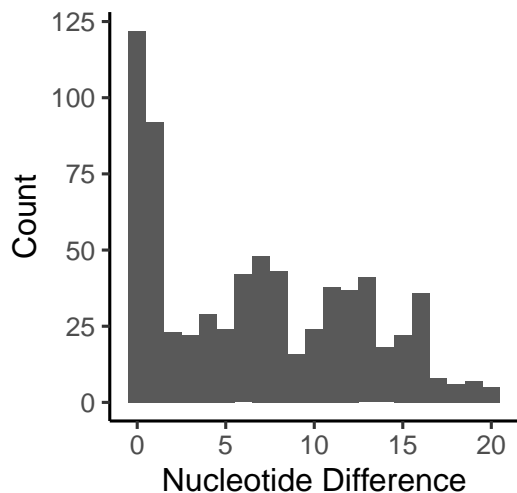
IGHV3–48*04

7643 sequences assigned
655 (8.6%) exact matches, in which:
434 unique CDR3
5 unique J



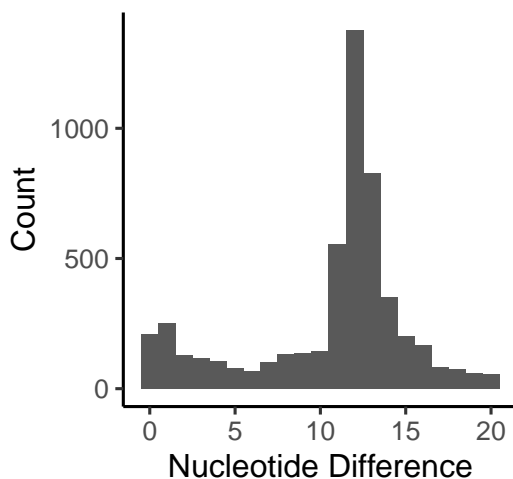
IGHV3-49*03_05

727 sequences assigned
122 (16.8%) exact matches, in which:
68 unique CDR3
4 unique J



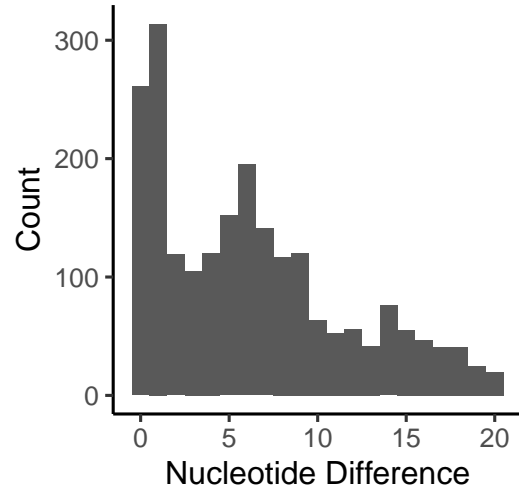
IGHV3-53*01_02

5608 sequences assigned
210 (3.7%) exact matches, in which:
137 unique CDR3
4 unique J



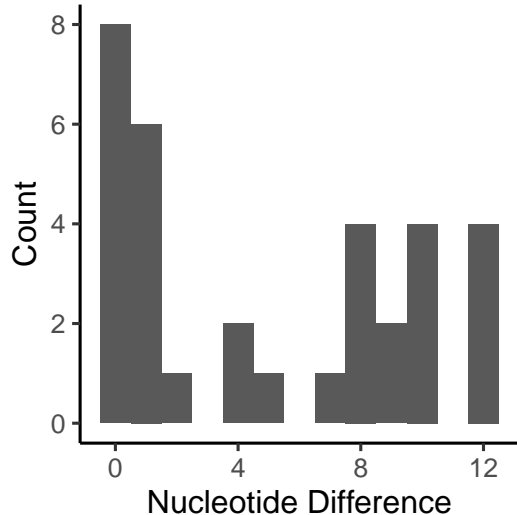
IGHV3-66*01

2290 sequences assigned
261 (11.4%) exact matches, in which:
162 unique CDR3
6 unique J



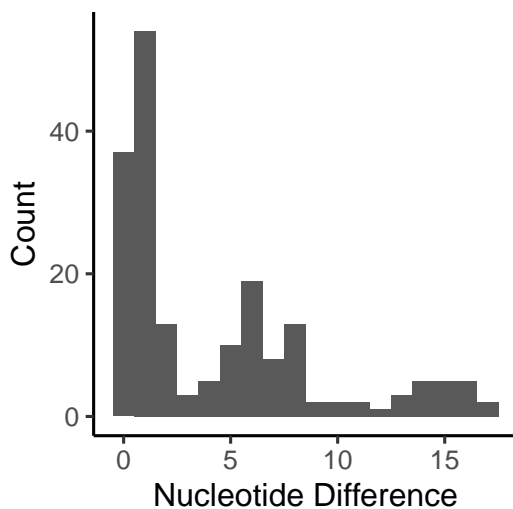
IGHV3-52*01_03

33 sequences assigned
8 (24.2%) exact matches, in which:
6 unique CDR3
3 unique J



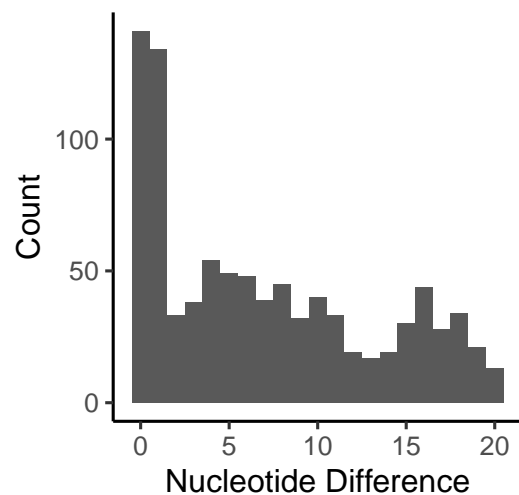
IGHV3-64*01

201 sequences assigned
37 (18.4%) exact matches, in which:
24 unique CDR3
4 unique J



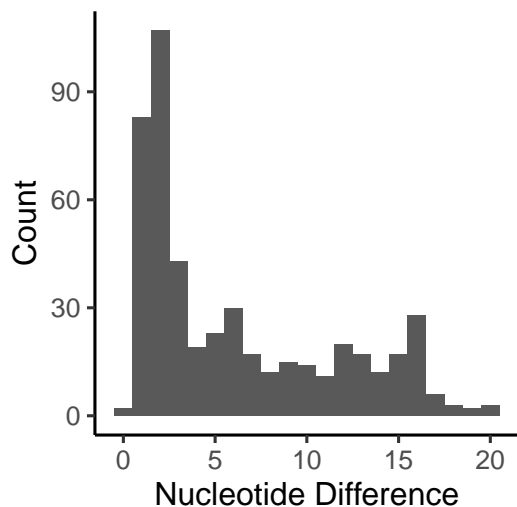
IGHV3-66*02

1074 sequences assigned
141 (13.1%) exact matches, in which:
100 unique CDR3
6 unique J



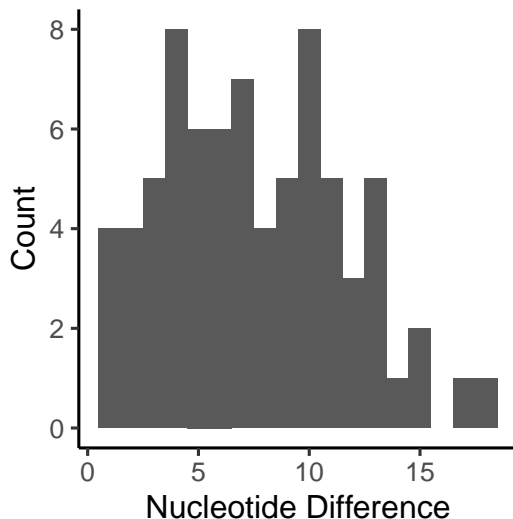
IGHV3-53*05

507 sequences assigned
2 (0.4%) exact matches, in which:
2 unique CDR3
2 unique J



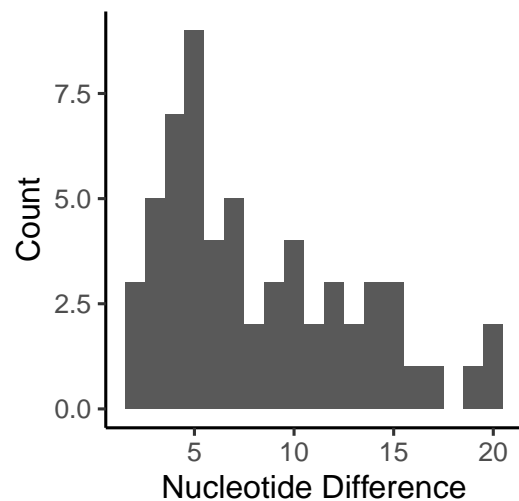
IGHV3-64*04

80 sequences assigned
No exact matches.



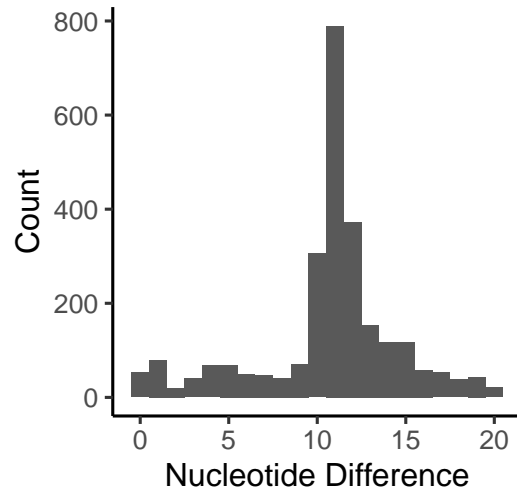
IGHV3-69-1*01

75 sequences assigned
No exact matches.



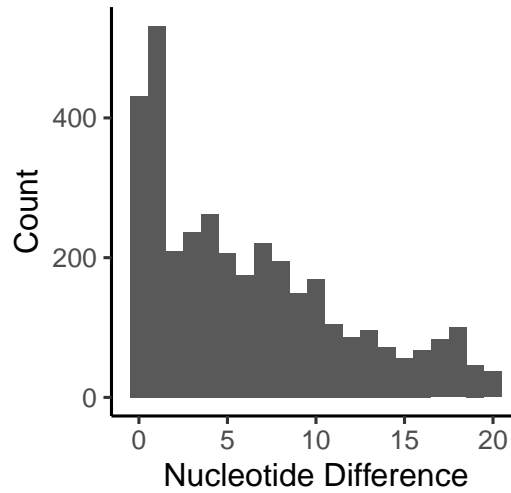
IGHV3-72*01

2725 sequences assigned
53 (1.9%) exact matches, in which:
32 unique CDR3
5 unique J



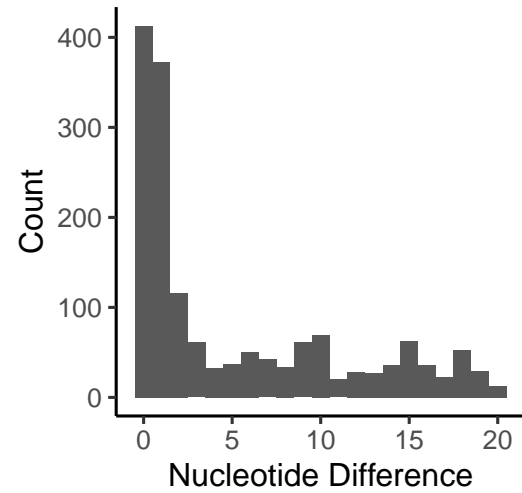
IGHV3-74*01_02

4017 sequences assigned
431 (10.7%) exact matches, in which:
290 unique CDR3
5 unique J



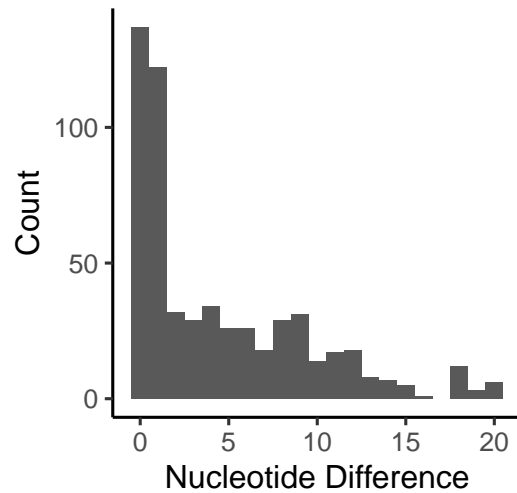
IGHV4-4*02_03

1739 sequences assigned
413 (23.7%) exact matches, in which:
311 unique CDR3
6 unique J



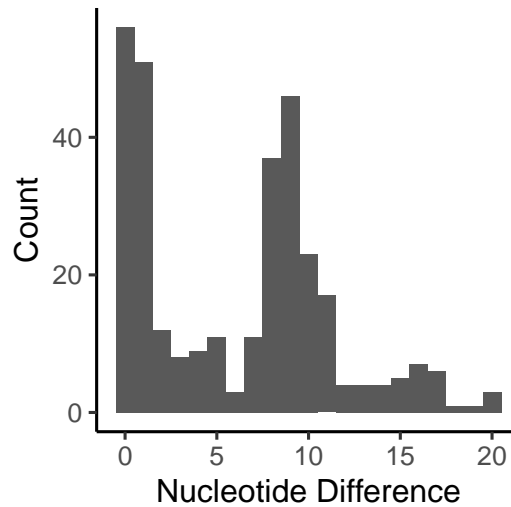
IGHV3-73*01_02

648 sequences assigned
137 (21.1%) exact matches, in which:
78 unique CDR3
6 unique J



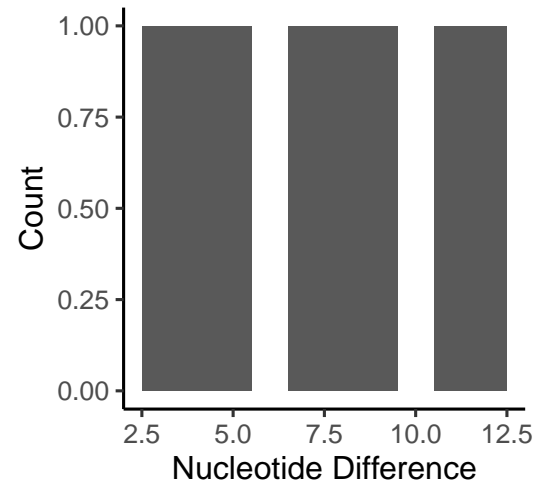
IGHV3-64D*06

347 sequences assigned
56 (16.1%) exact matches, in which:
35 unique CDR3
4 unique J



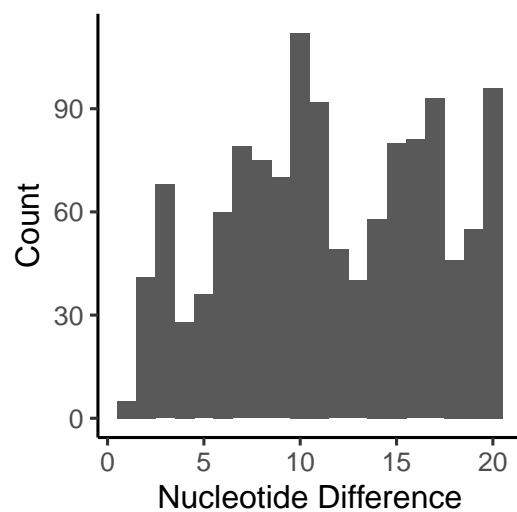
IGHV4-28*03

8 sequences assigned
No exact matches.



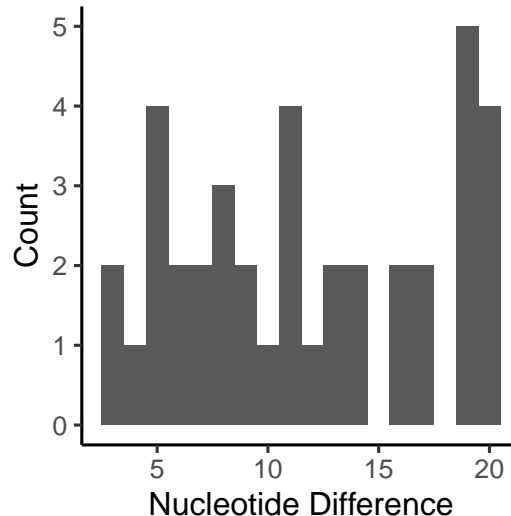
IGHV3-74*03

1651 sequences assigned
No exact matches.



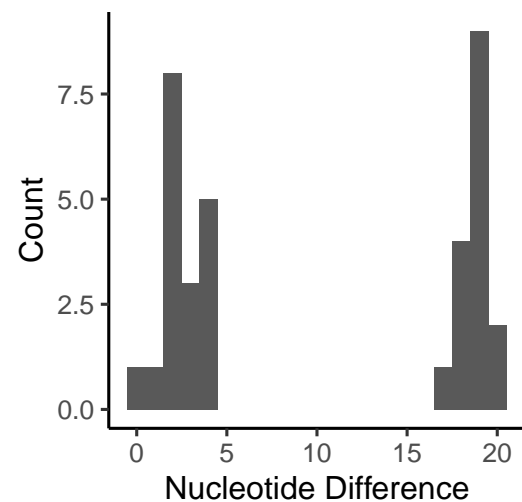
IGHV3-NL1*01

51 sequences assigned
No exact matches.



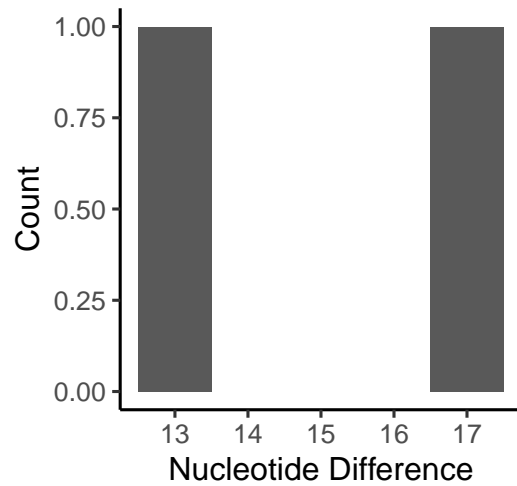
IGHV4-28*02_05

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



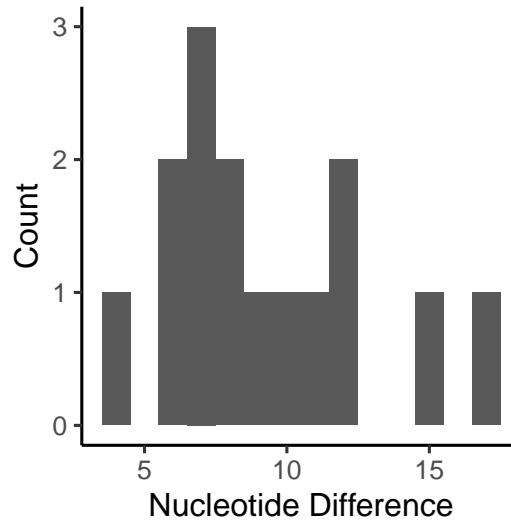
IGHV4-30-4*01

4 sequences assigned
No exact matches.



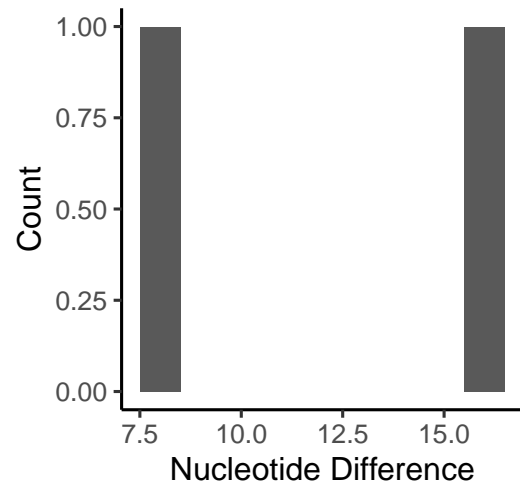
IGHV4-30-4*08

72 sequences assigned
No exact matches.



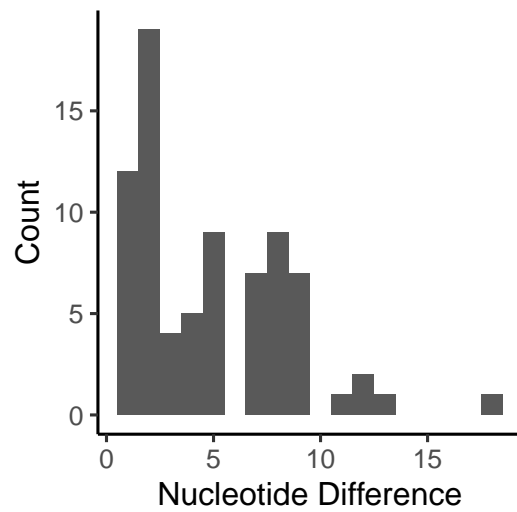
IGHV4-38-2*01

3 sequences assigned
No exact matches.



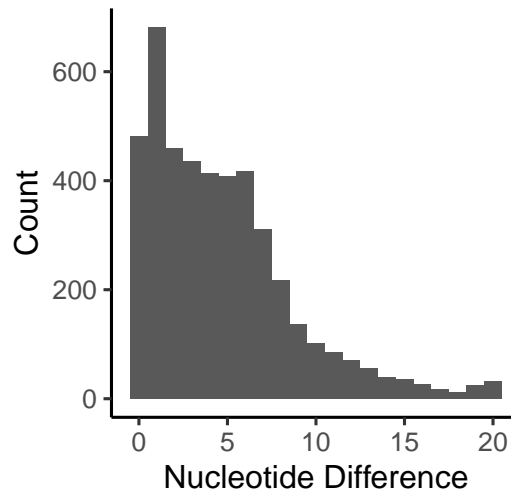
IGHV4-30-2*03

79 sequences assigned
No exact matches.



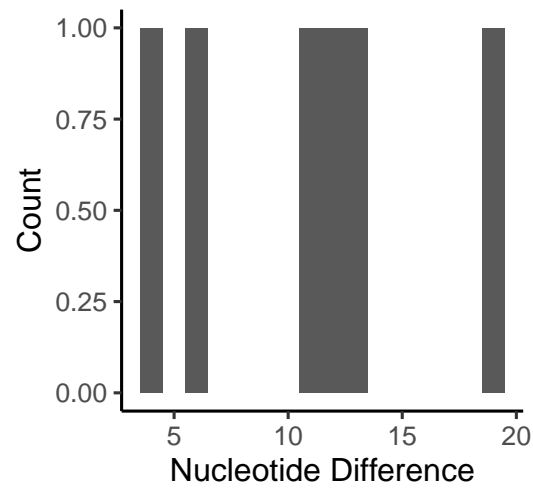
IGHV4-31*02

4870 sequences assigned
482 (9.9%) exact matches, in which:
389 unique CDR3
5 unique J



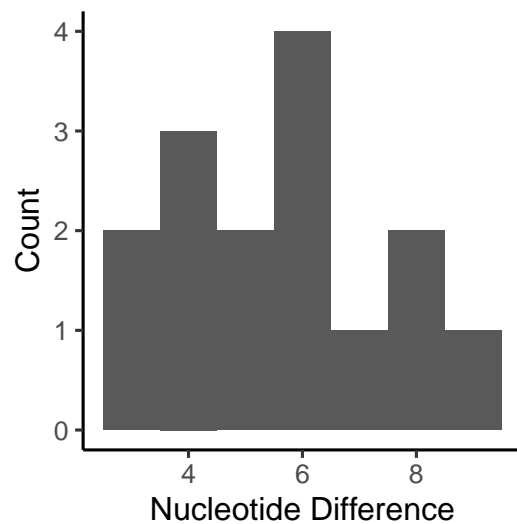
IGHV4-38-2*02

6 sequences assigned
No exact matches.



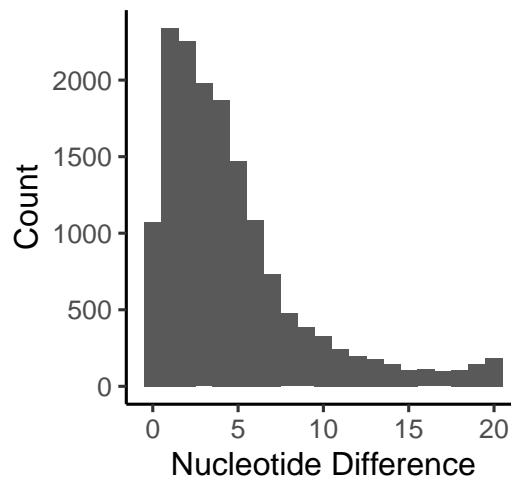
IGHV4-30-2*04

15 sequences assigned
No exact matches.



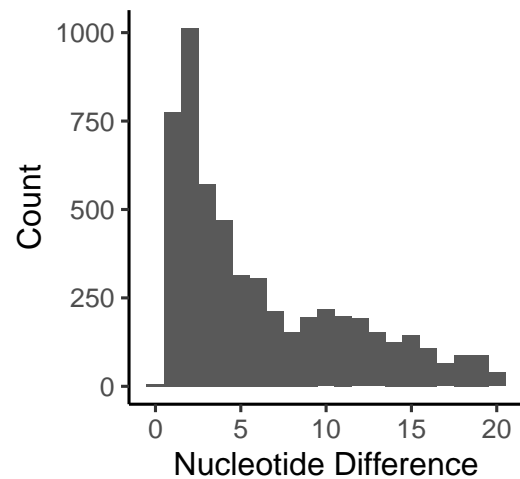
IGHV4-34*01_02

16152 sequences assigned
1075 (6.7%) exact matches, in which:
787 unique CDR3
6 unique J



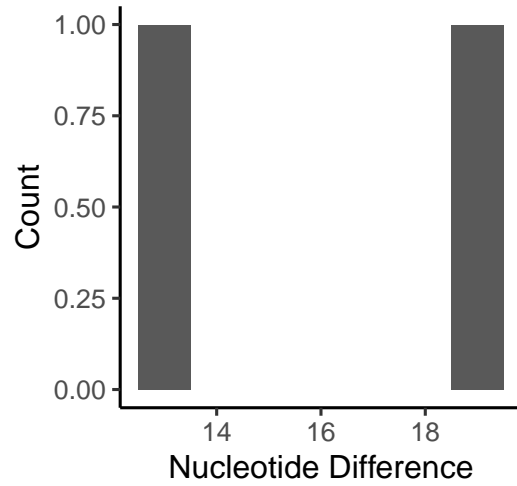
IGHV4-39*07

5928 sequences assigned
6 (0.1%) exact matches, in which:
6 unique CDR3
4 unique J



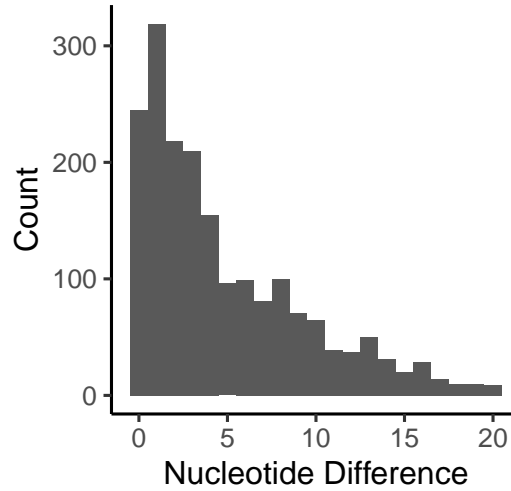
IGHV4-55*09

2 sequences assigned
No exact matches.



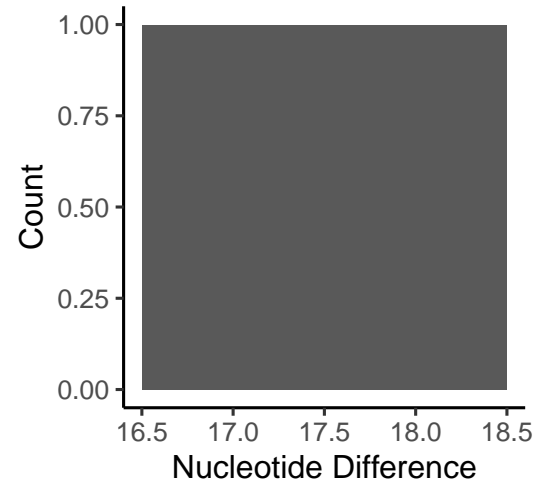
IGHV4-61*01

1957 sequences assigned
245 (12.5%) exact matches, in which:
193 unique CDR3
6 unique J



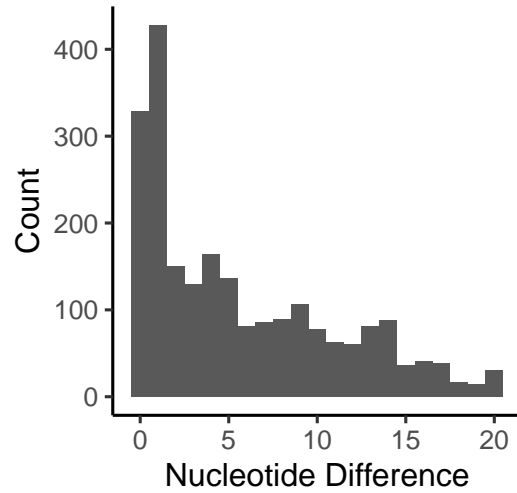
IGHV1/OR15-1*04

2 sequences assigned
No exact matches.



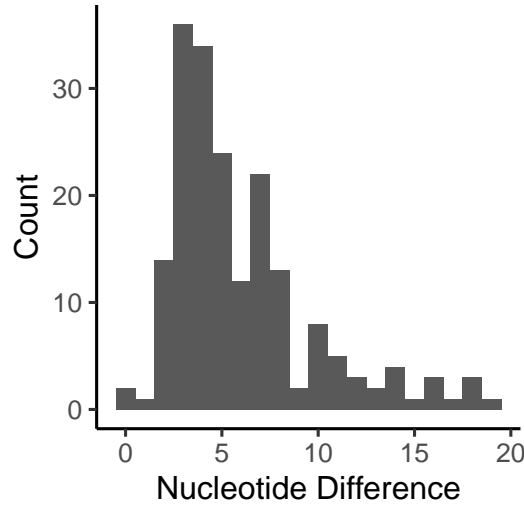
IGHV4-59*08

2390 sequences assigned
329 (13.8%) exact matches, in which:
247 unique CDR3
5 unique J



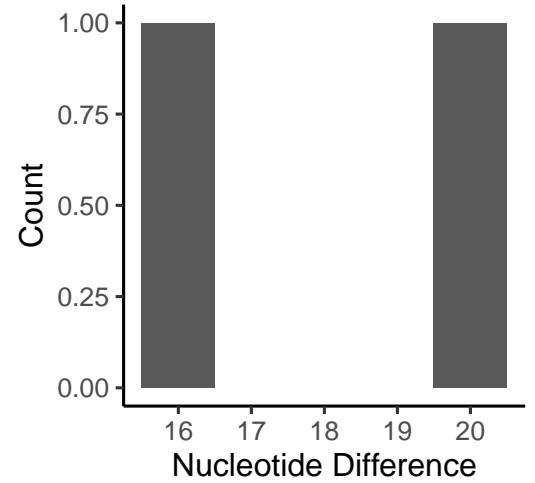
IGHV4-61*05

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



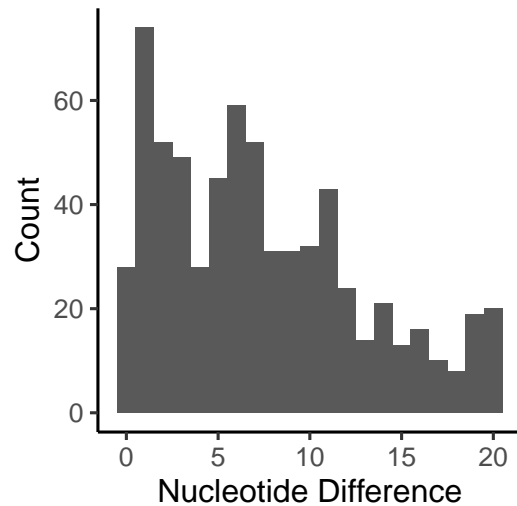
IGHV1/OR15-2*02_03

3 sequences assigned
No exact matches.



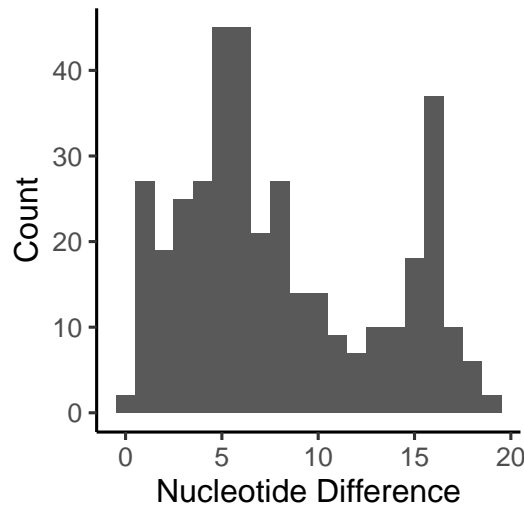
IGHV4-59*12

784 sequences assigned
28 (3.6%) exact matches, in which:
28 unique CDR3
3 unique J



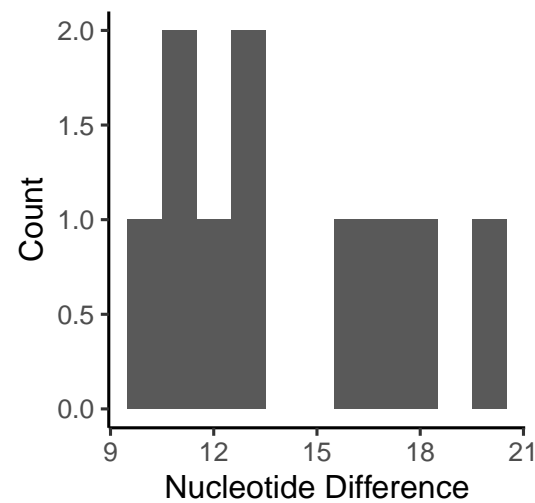
IGHV4-61*08

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



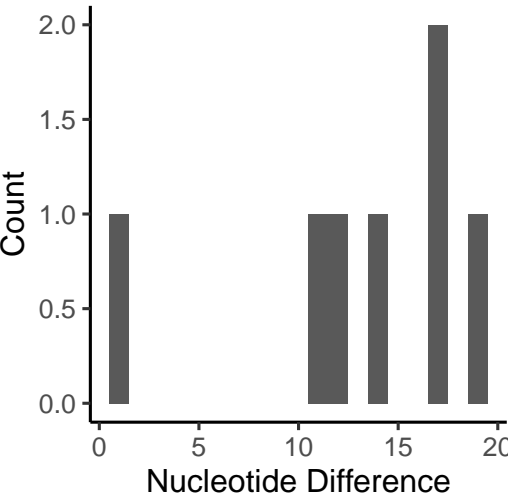
IGHV1/OR15-3*02

10 sequences assigned
No exact matches.



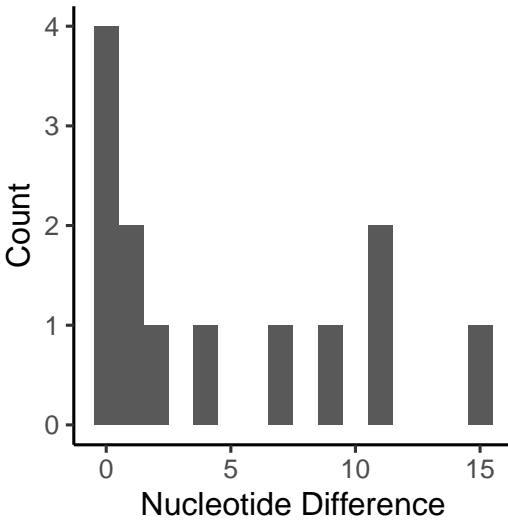
IGHV4/OR15-8*01

9 sequences assigned
No exact matches.



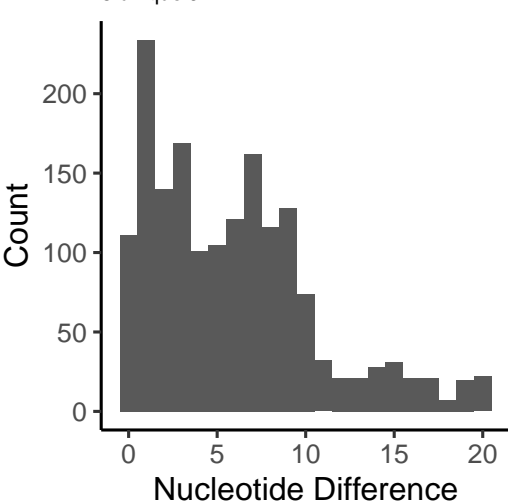
IGHV5-51*04

15 sequences assigned
4 (26.7%) exact matches, in which:
4 unique CDR3
2 unique J



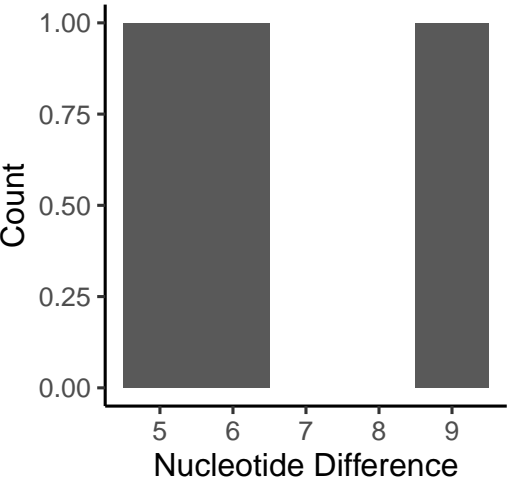
IGHV6-1*01_02

1927 sequences assigned
111 (5.8%) exact matches, in which:
88 unique CDR3
5 unique J



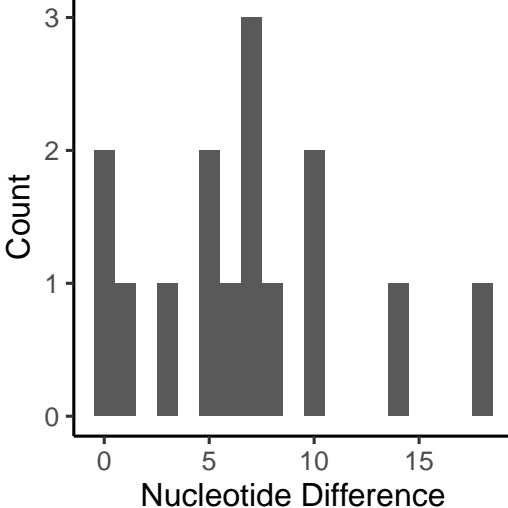
IGHV4/OR15-8*02

3 sequences assigned
No exact matches.



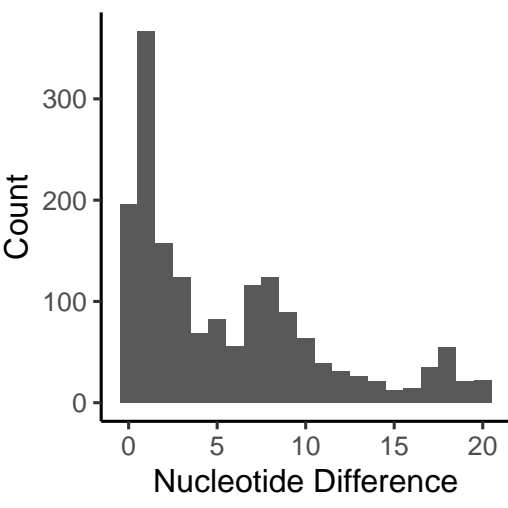
IGHV5-51*06

16 sequences assigned
2 (12.5%) exact matches, in which:
2 unique CDR3
1 unique J



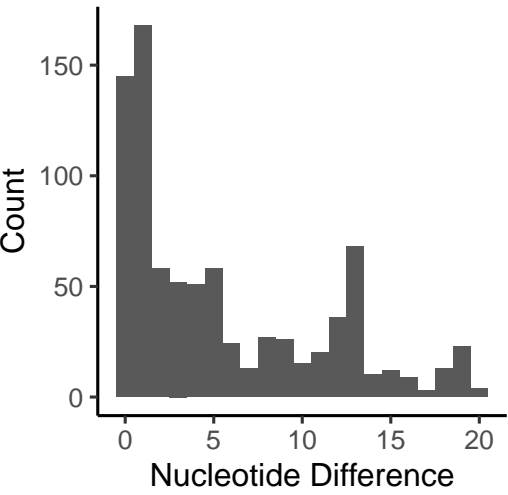
IGHV7-4-1*02

1796 sequences assigned
196 (10.9%) exact matches, in which:
151 unique CDR3
6 unique J



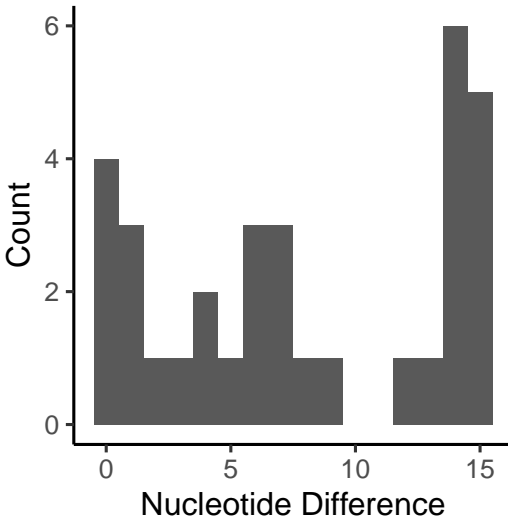
IGHV5-10-1*01_03

862 sequences assigned
145 (16.8%) exact matches, in which:
89 unique CDR3
5 unique J



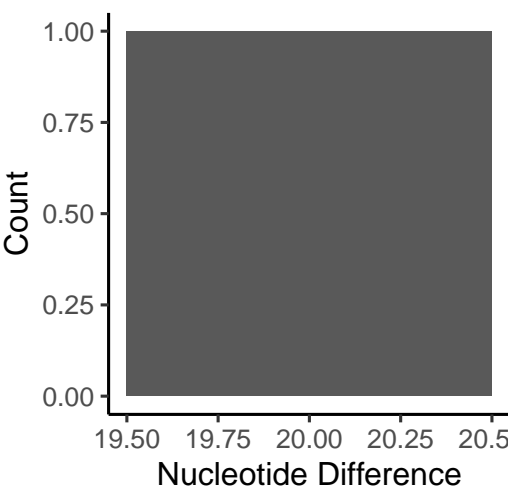
IGHV5-51*07

35 sequences assigned
4 (11.4%) exact matches, in which:
4 unique CDR3
2 unique J



IGHV7-81*01

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.