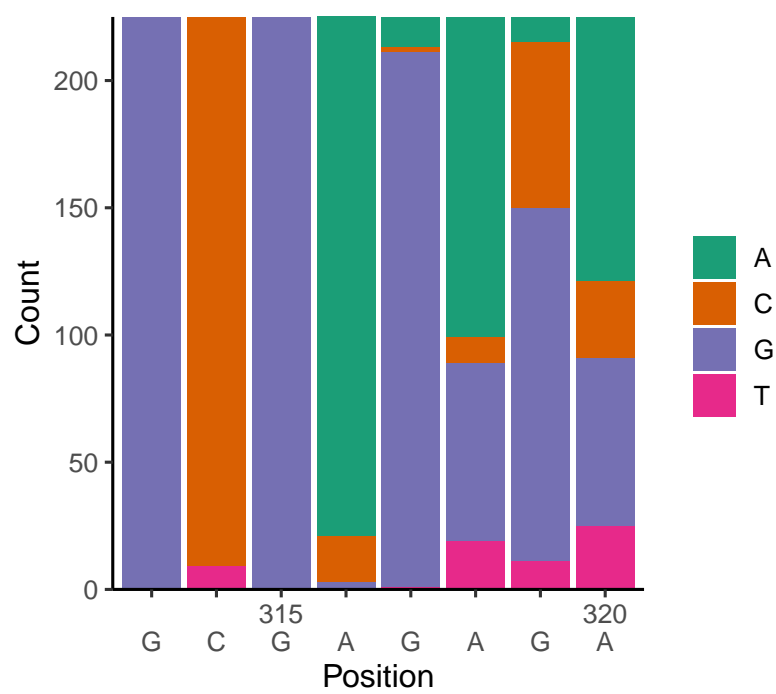


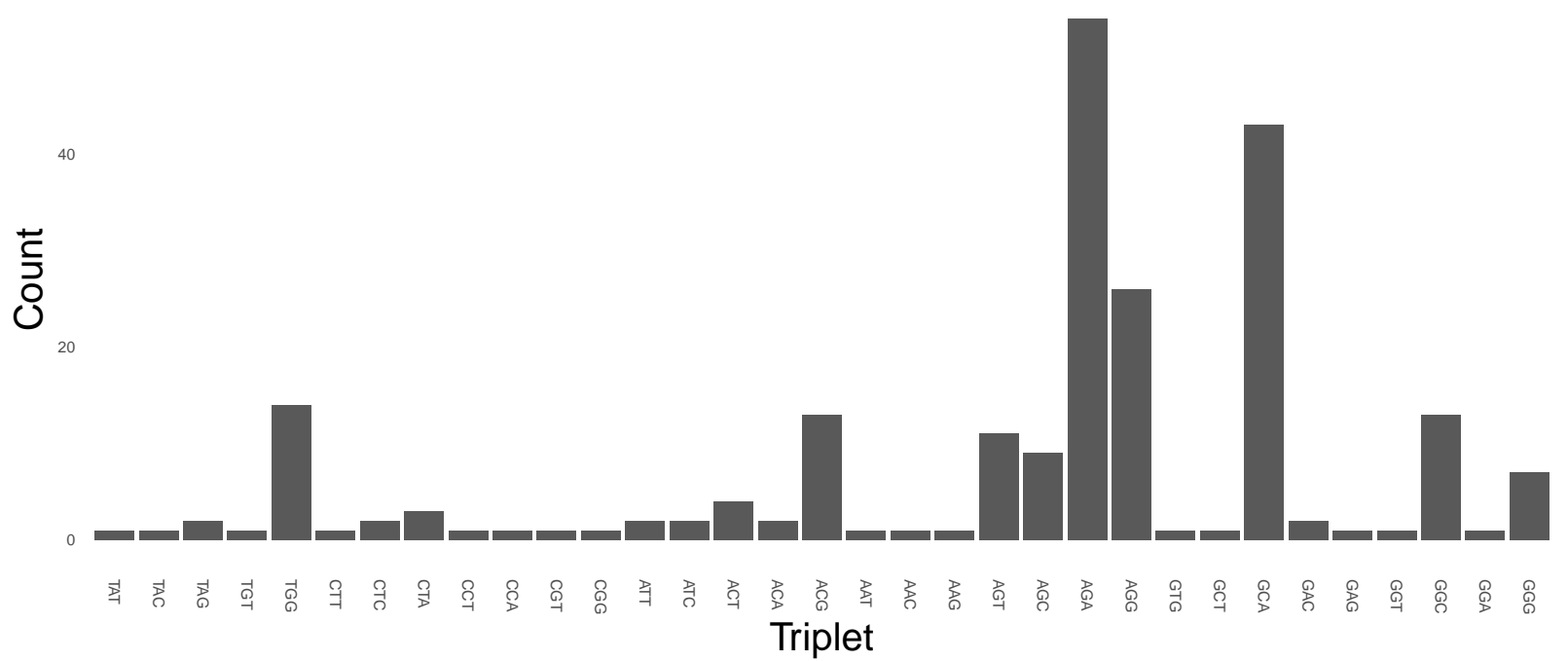
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

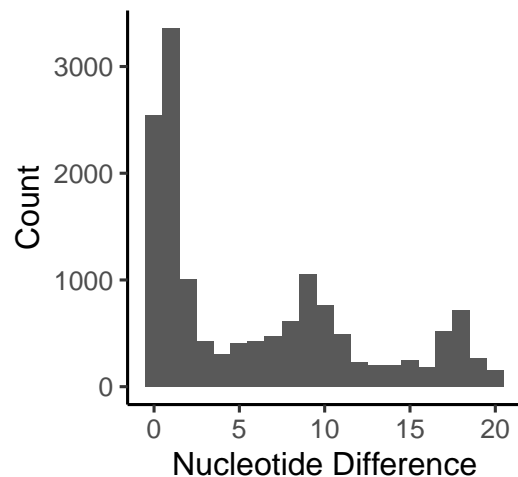


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



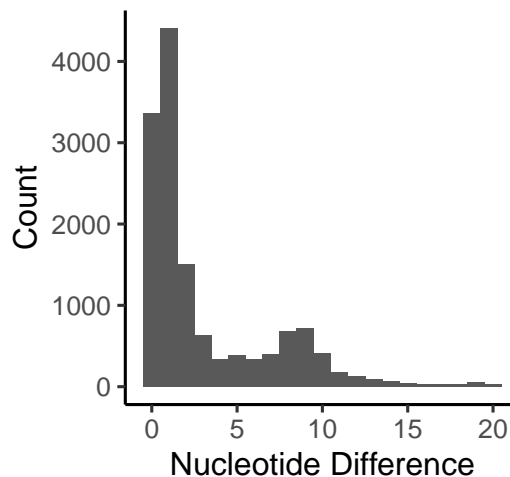
IGHV1-2*02

15166 sequences assigned
2547 (16.8%) exact matches, in which:
2006 unique CDR3
6 unique J



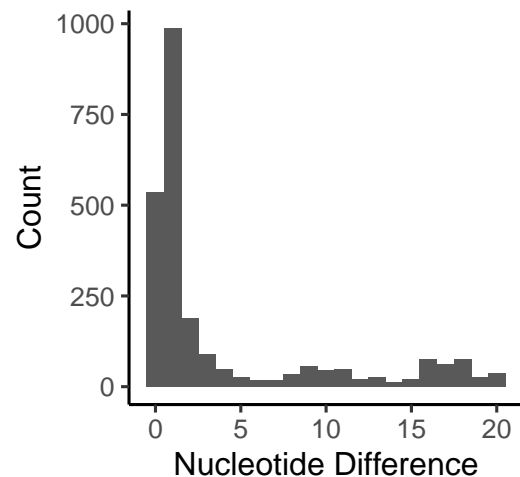
IGHV1-8*01

14696 sequences assigned
3358 (22.8%) exact matches, in which:
2676 unique CDR3
6 unique J



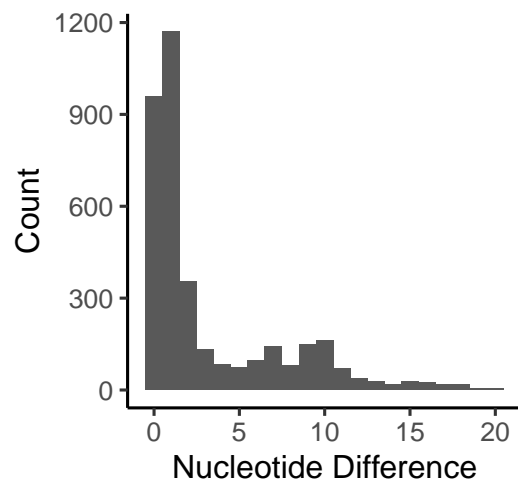
IGHV1-24*01

2912 sequences assigned
536 (18.4%) exact matches, in which:
366 unique CDR3
6 unique J



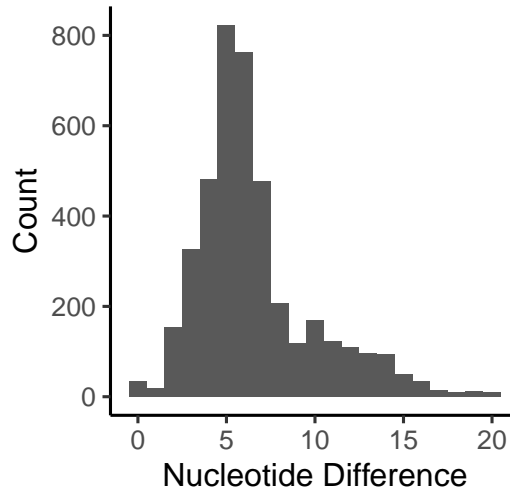
IGHV1-2*04

3670 sequences assigned
960 (26.2%) exact matches, in which:
806 unique CDR3
6 unique J



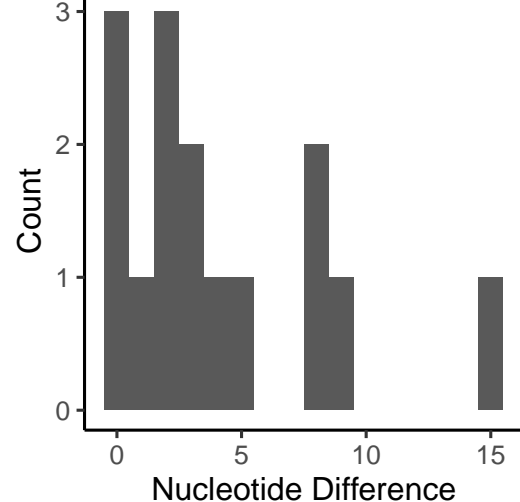
IGHV1-8*02

4245 sequences assigned
35 (0.8%) exact matches, in which:
35 unique CDR3
4 unique J



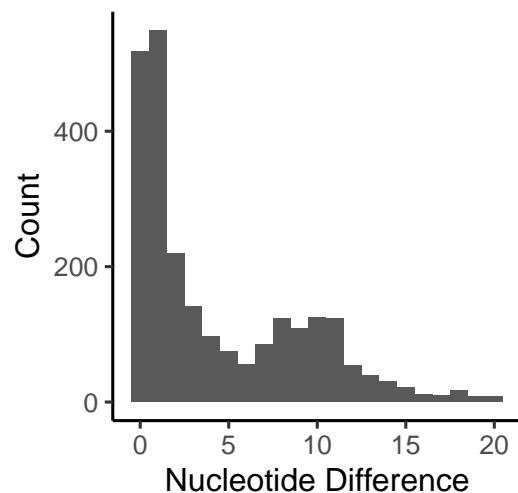
IGHV1-45*02

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



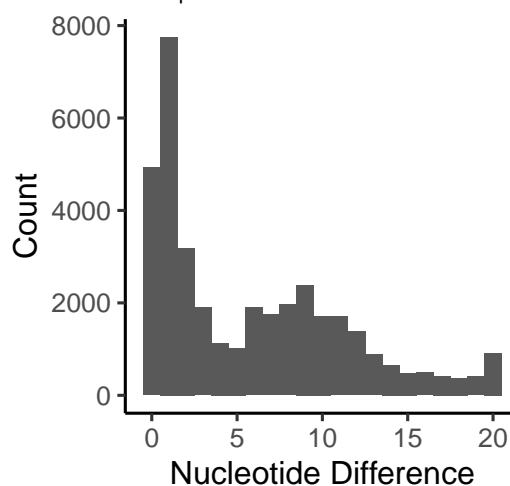
IGHV1-3*01_05

2809 sequences assigned
518 (18.4%) exact matches, in which:
406 unique CDR3
6 unique J



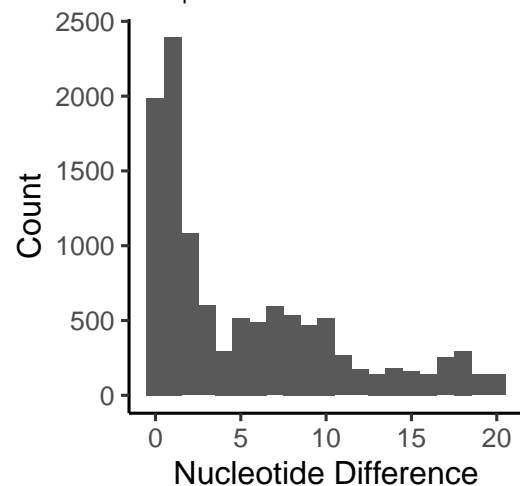
IGHV1-18*01

48090 sequences assigned
4927 (10.2%) exact matches, in which:
3694 unique CDR3
6 unique J



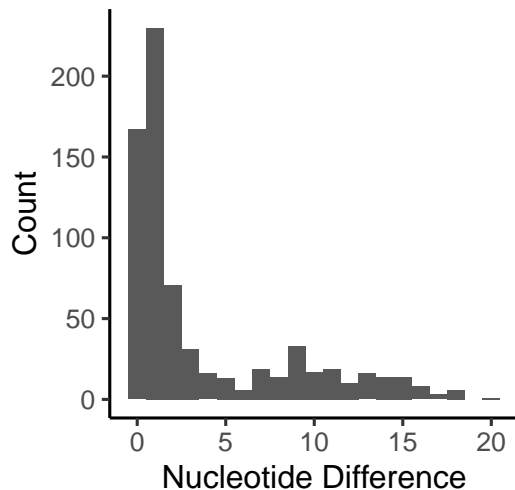
IGHV1-46*01

11984 sequences assigned
1987 (16.6%) exact matches, in which:
1599 unique CDR3
6 unique J



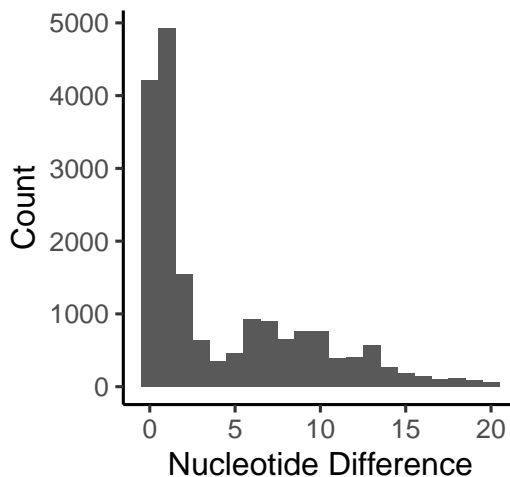
IGHV1-58*01_03

733 sequences assigned
167 (22.8%) exact matches, in which:
137 unique CDR3
6 unique J



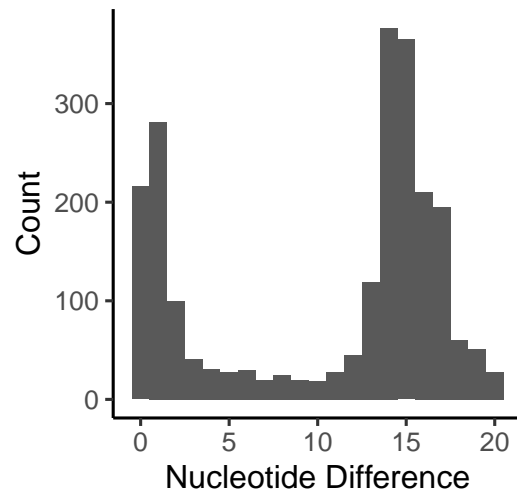
IGHV1-69*05

19140 sequences assigned
4209 (22%) exact matches, in which:
3429 unique CDR3
6 unique J



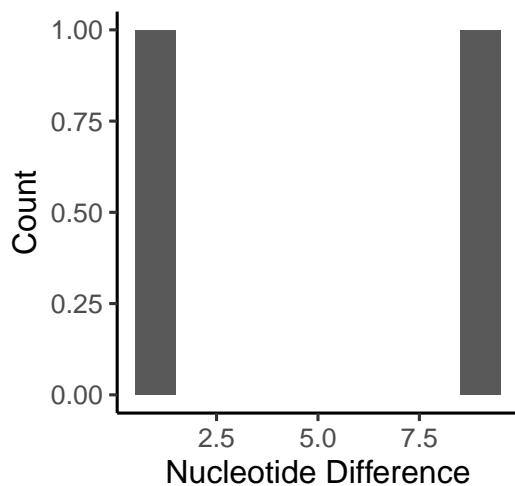
IGHV2-5*01

2361 sequences assigned
216 (9.1%) exact matches, in which:
179 unique CDR3
6 unique J



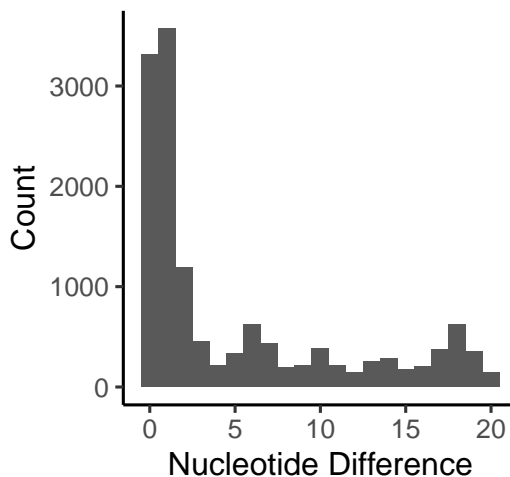
IGHV1-68*01

2 sequences assigned
No exact matches.



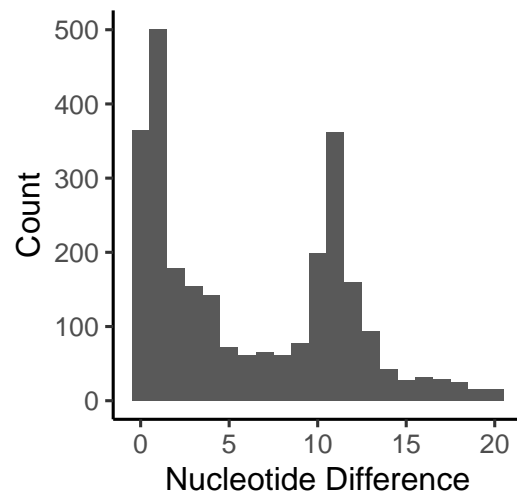
IGHV1-69*01_12_13

14585 sequences assigned
3314 (22.7%) exact matches, in which:
2721 unique CDR3
6 unique J



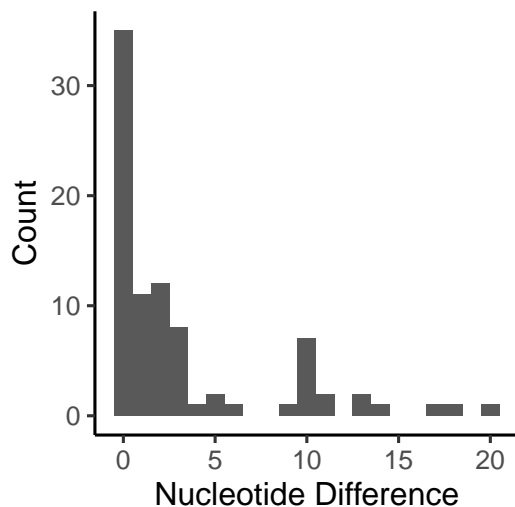
IGHV2-5*02

2790 sequences assigned
364 (13%) exact matches, in which:
256 unique CDR3
6 unique J



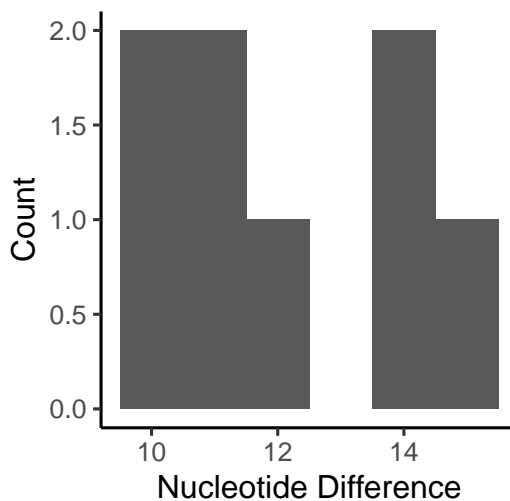
IGHV1-69-2*01

106 sequences assigned
35 (33%) exact matches, in which:
31 unique CDR3
4 unique J



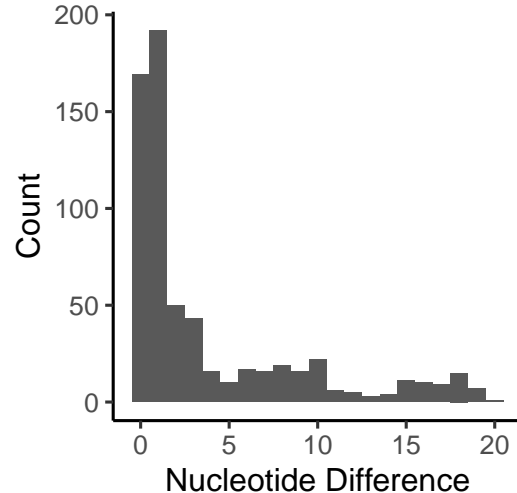
IGHV1-NL1*01

8 sequences assigned
No exact matches.



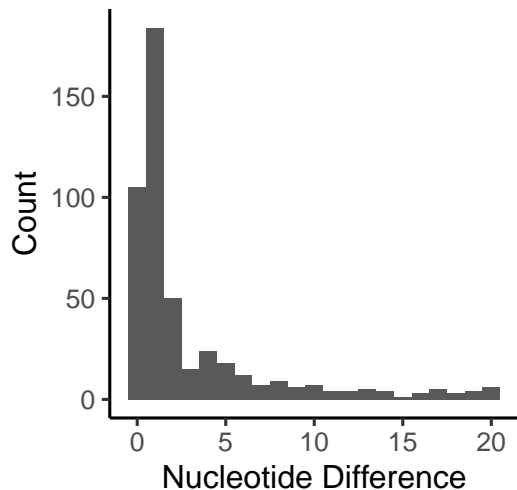
IGHV2-26*01

675 sequences assigned
169 (25%) exact matches, in which:
134 unique CDR3
5 unique J



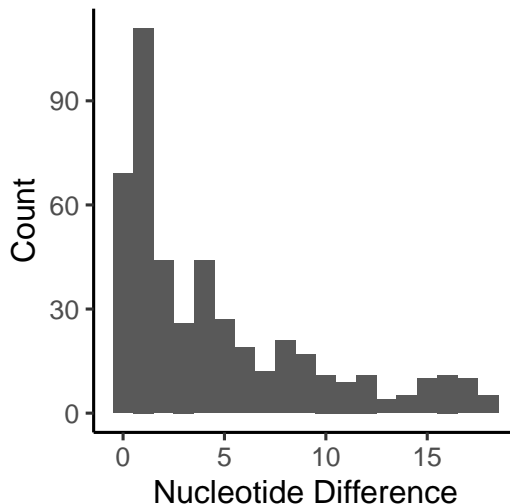
IGHV2-70*01

488 sequences assigned
105 (21.5%) exact matches, in which:
74 unique CDR3
5 unique J



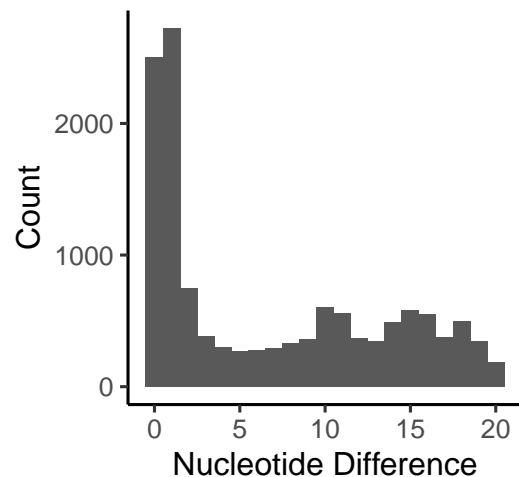
IGHV2-70D*14

468 sequences assigned
69 (14.7%) exact matches, in which:
49 unique CDR3
4 unique J



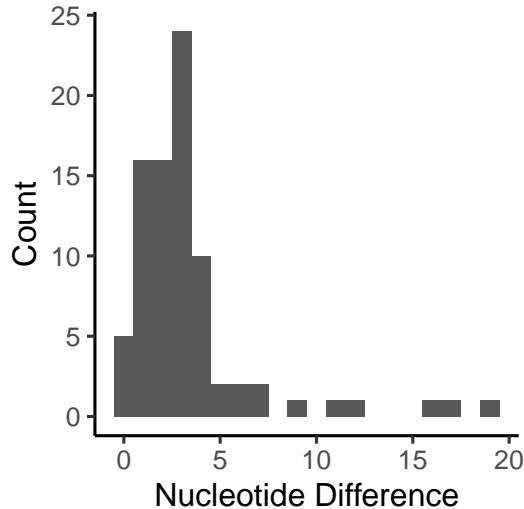
IGHV3-9*01

13906 sequences assigned
2501 (18%) exact matches, in which:
1415 unique CDR3
6 unique J



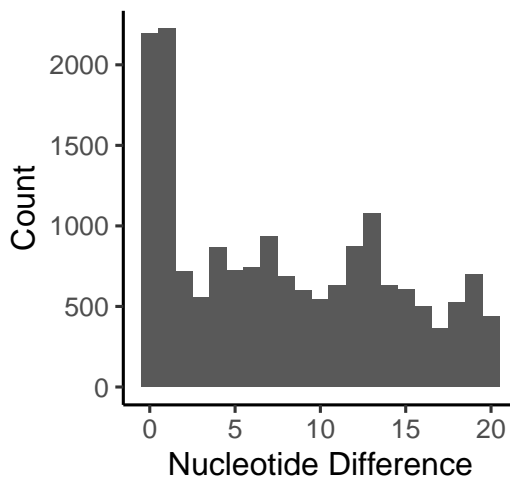
IGHV2-70*12

83 sequences assigned
5 (6%) exact matches, in which:
5 unique CDR3
4 unique J



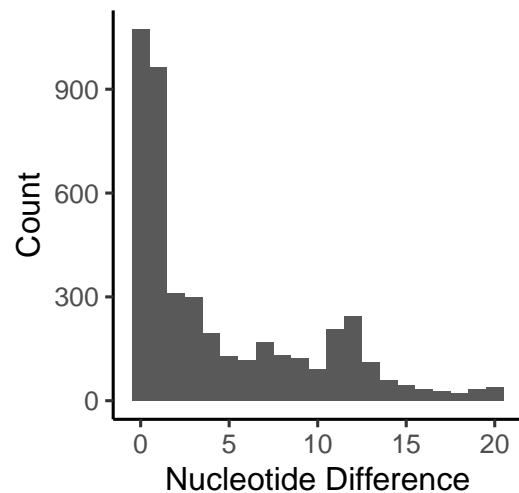
IGHV3-7*01

18011 sequences assigned
2193 (12.2%) exact matches, in which:
1492 unique CDR3
6 unique J



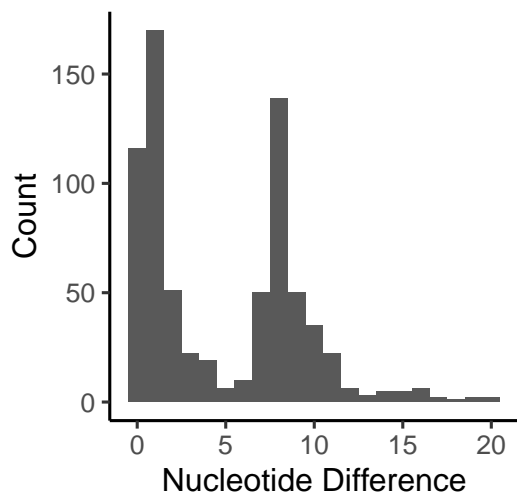
IGHV3-11*01

5499 sequences assigned
1074 (19.5%) exact matches, in which:
717 unique CDR3
6 unique J



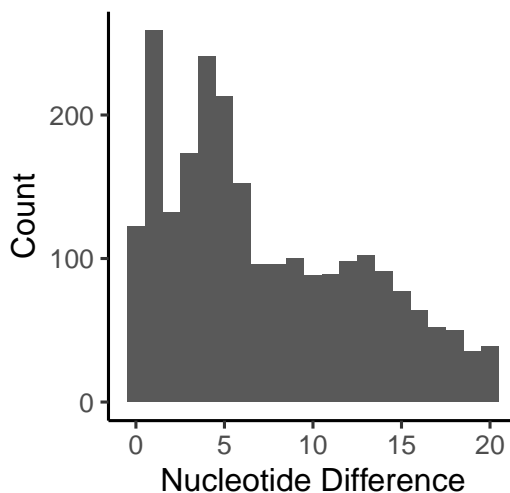
IGHV2-70*20

731 sequences assigned
116 (15.9%) exact matches, in which:
89 unique CDR3
5 unique J



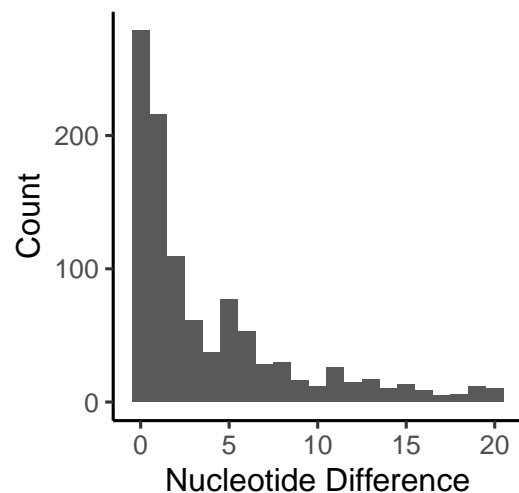
IGHV3-7*03

2642 sequences assigned
122 (4.6%) exact matches, in which:
112 unique CDR3
5 unique J



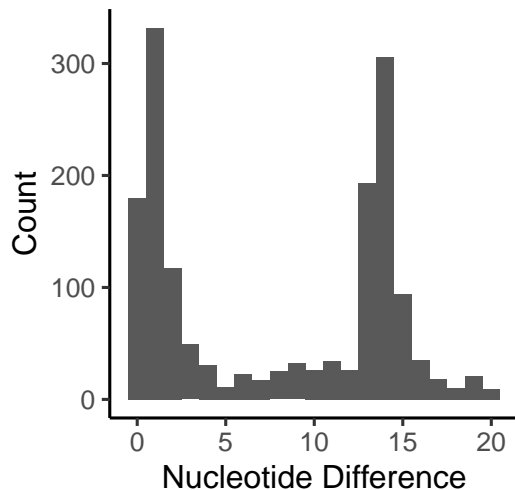
IGHV3-11*04

1107 sequences assigned
279 (25.2%) exact matches, in which:
264 unique CDR3
6 unique J



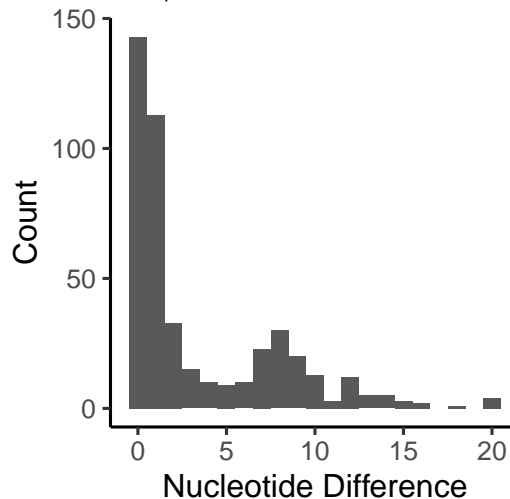
IGHV3-13*01

1657 sequences assigned
180 (10.9%) exact matches, in which:
93 unique CDR3
5 unique J



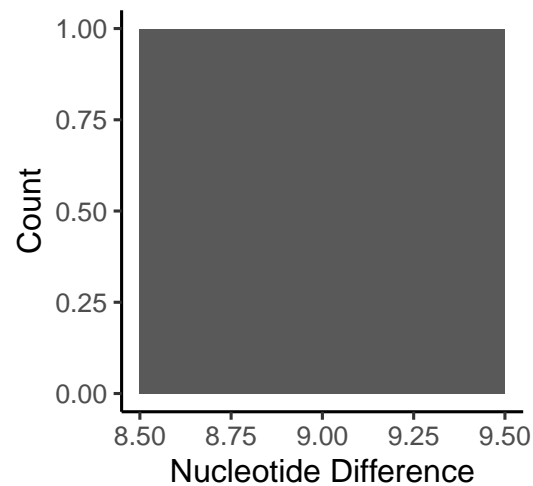
IGHV3-20*01_02

475 sequences assigned
143 (30.1%) exact matches, in which:
75 unique CDR3
6 unique J



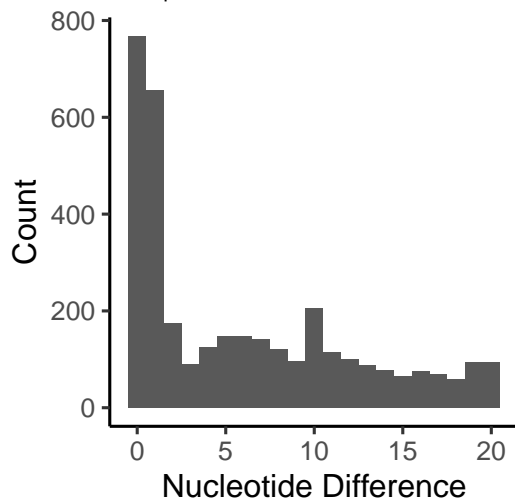
IGHV3-22*01_02

1 sequences assigned
No exact matches.



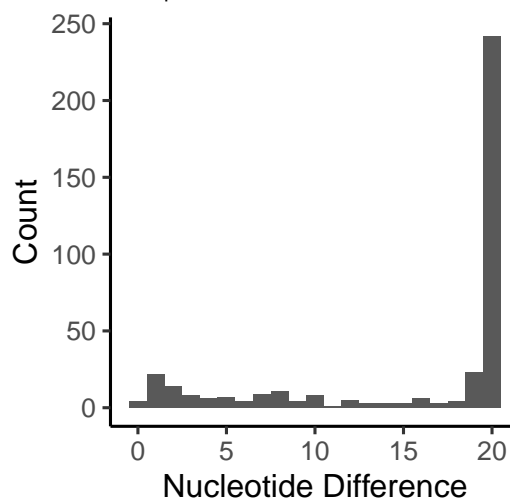
IGHV3-15*01_02

5192 sequences assigned
768 (14.8%) exact matches, in which:
458 unique CDR3
6 unique J



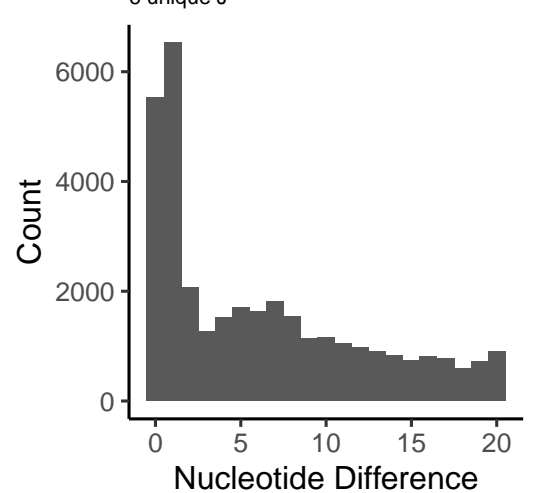
IGHV3-20*03_04

1339 sequences assigned
4 (0.3%) exact matches, in which:
4 unique CDR3
1 unique J



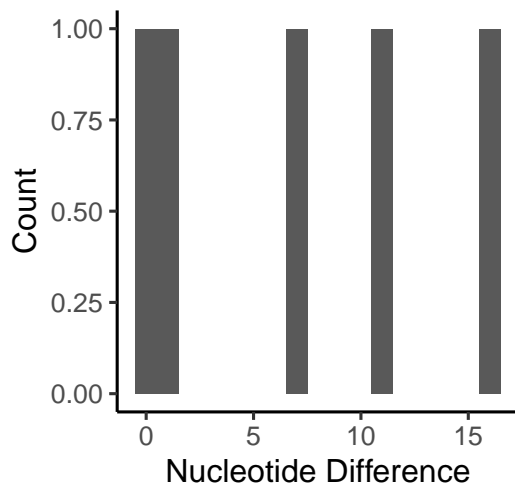
IGHV3-23*01_04

43825 sequences assigned
5528 (12.6%) exact matches, in which:
3130 unique CDR3
6 unique J



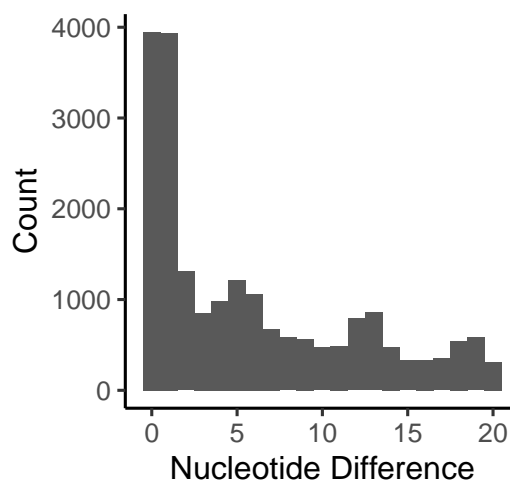
IGHV3-19*01

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



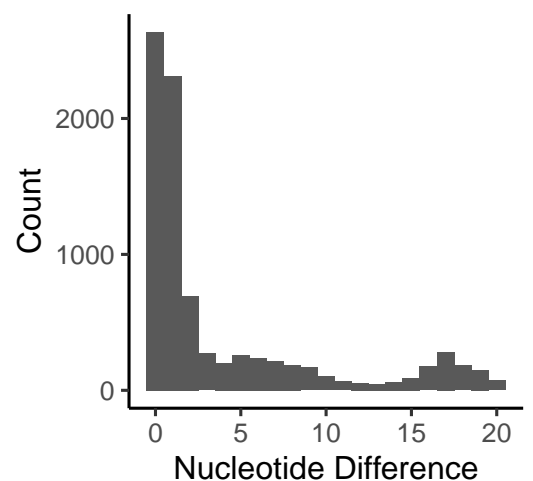
IGHV3-21*01_02

26255 sequences assigned
3947 (15%) exact matches, in which:
2417 unique CDR3
6 unique J



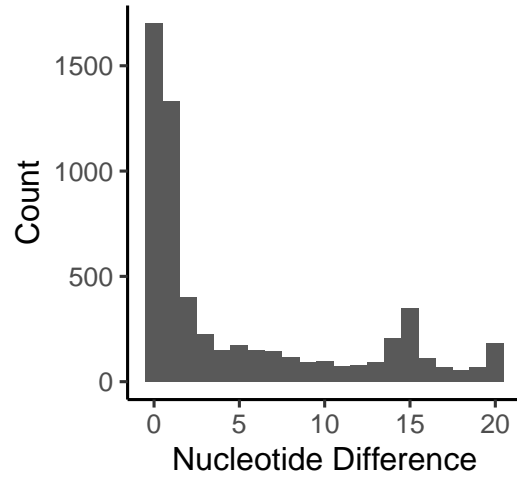
IGHV3-30-3*01

9136 sequences assigned
2636 (28.9%) exact matches, in which:
1734 unique CDR3
6 unique J



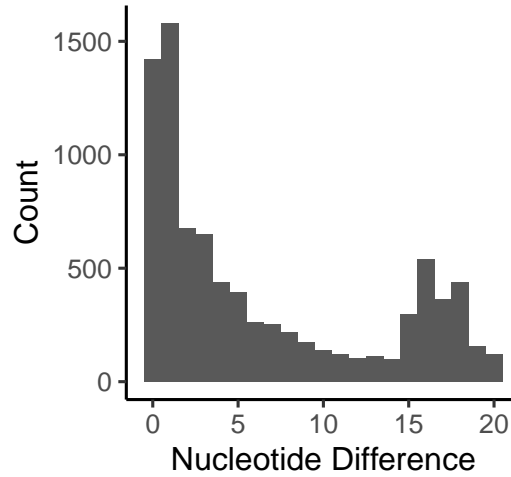
IGHV3-30*01

6726 sequences assigned
1701 (25.3%) exact matches, in which:
1161 unique CDR3
6 unique J



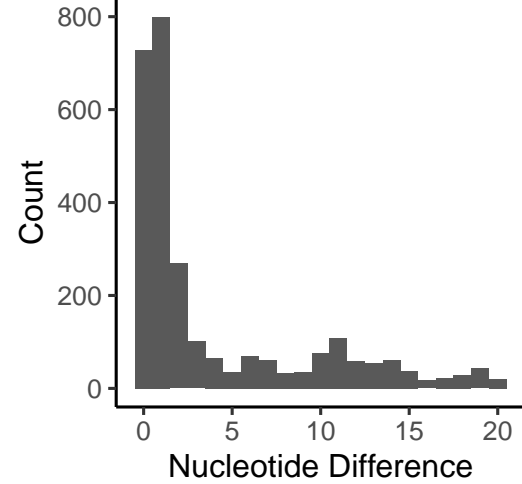
IGHV3-30*18

10155 sequences assigned
1421 (14%) exact matches, in which:
825 unique CDR3
6 unique J



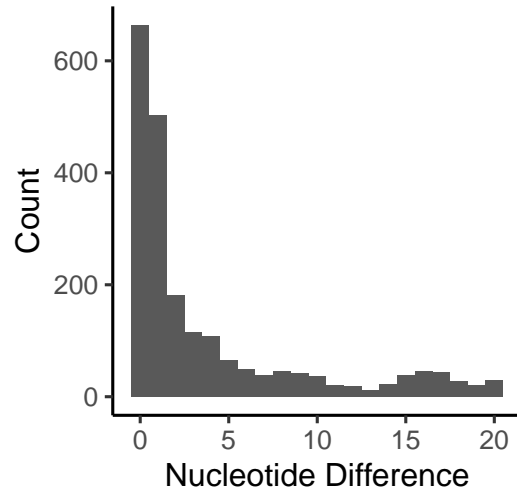
IGHV3-33*06

2869 sequences assigned
728 (25.4%) exact matches, in which:
491 unique CDR3
6 unique J



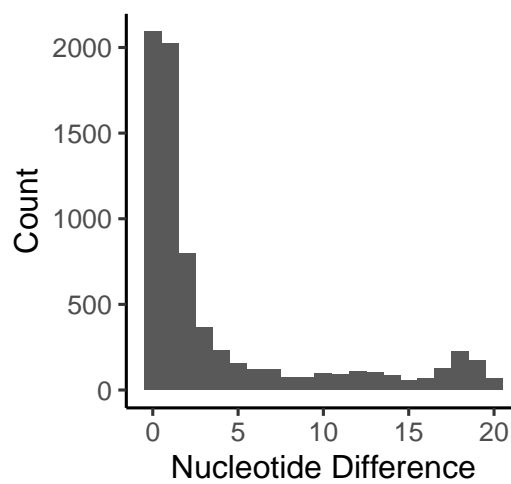
IGHV3-30*03

3819 sequences assigned
664 (17.4%) exact matches, in which:
574 unique CDR3
6 unique J



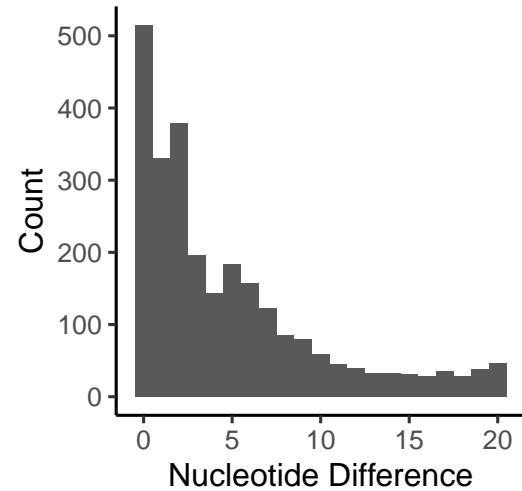
IGHV3-33*01

7639 sequences assigned
2092 (27.4%) exact matches, in which:
1394 unique CDR3
6 unique J



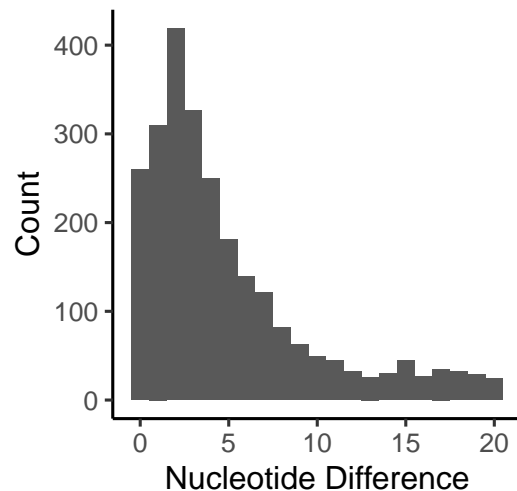
IGHV3-33*08

2871 sequences assigned
515 (17.9%) exact matches, in which:
376 unique CDR3
6 unique J



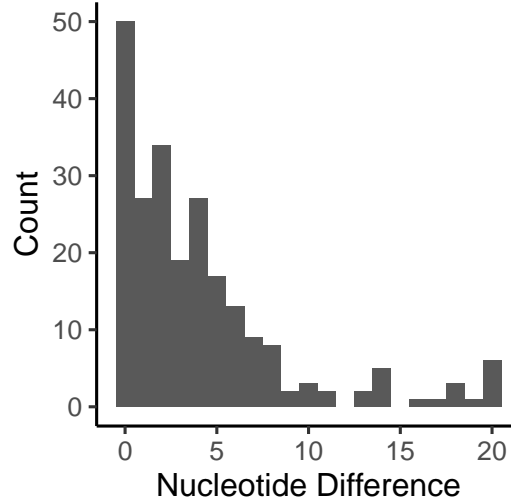
IGHV3-30*07

2759 sequences assigned
260 (9.4%) exact matches, in which:
237 unique CDR3
6 unique J



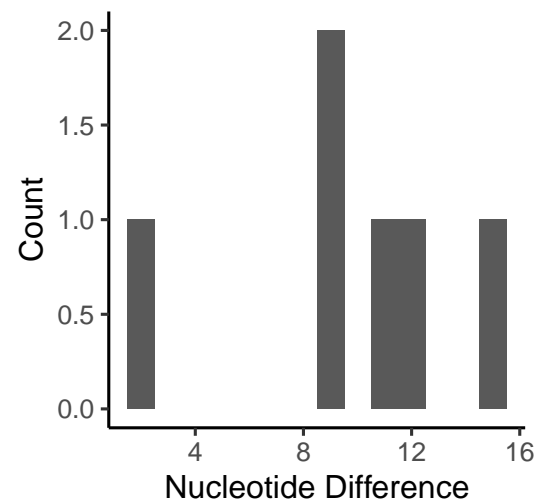
IGHV3-33*05

282 sequences assigned
50 (17.7%) exact matches, in which:
48 unique CDR3
5 unique J



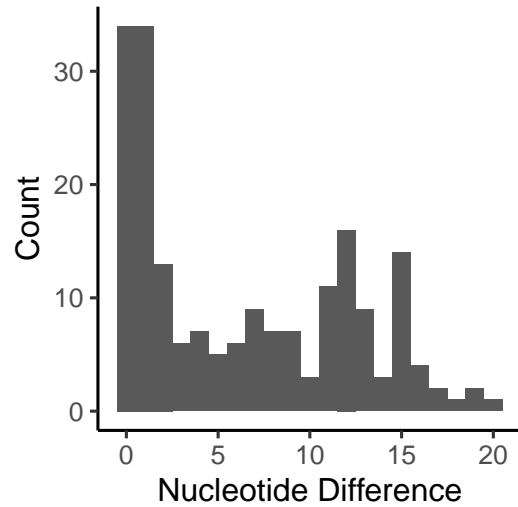
IGHV3-35*01

6 sequences assigned
No exact matches.



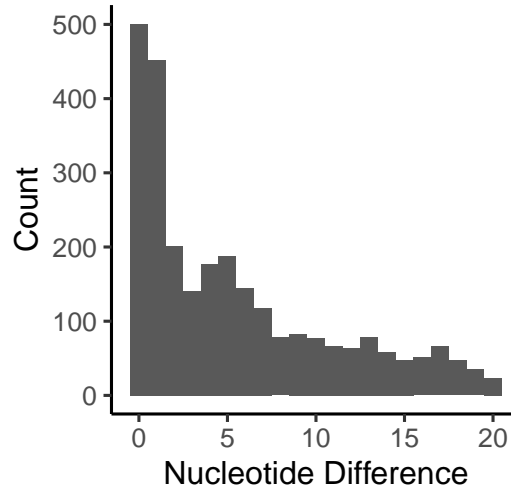
IGHV3-43*01

328 sequences assigned
34 (10.4%) exact matches, in which:
18 unique CDR3
4 unique J



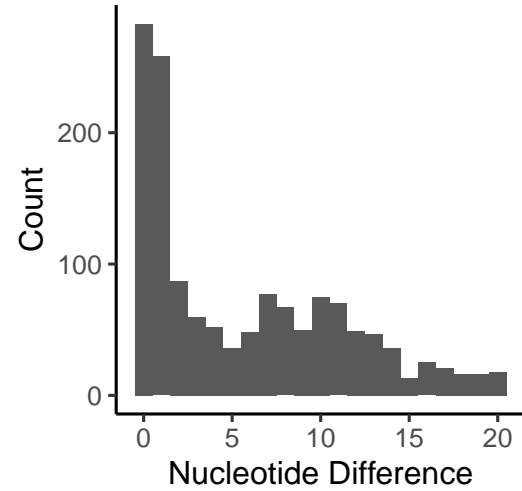
IGHV3-48*01

2952 sequences assigned
501 (17%) exact matches, in which:
350 unique CDR3
6 unique J



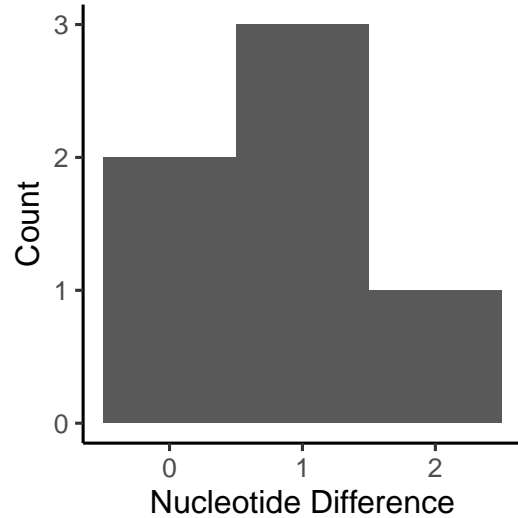
IGHV3-49*04

1587 sequences assigned
283 (17.8%) exact matches, in which:
167 unique CDR3
6 unique J



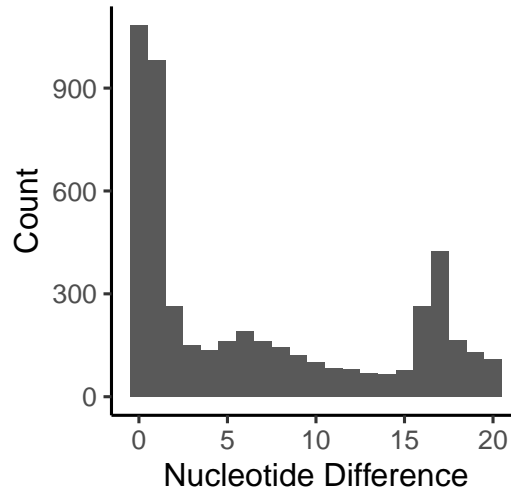
IGHV3-47*01

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



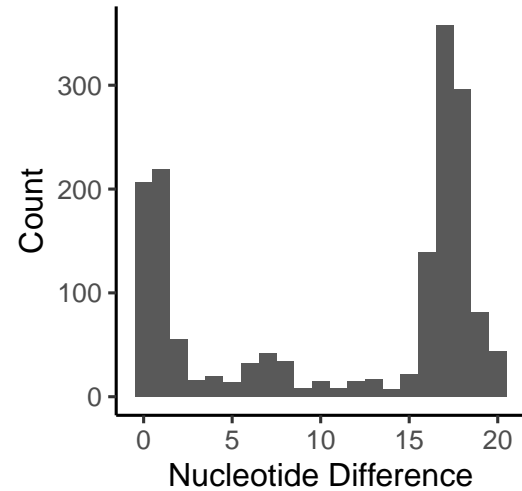
IGHV3-48*03

6650 sequences assigned
1084 (16.3%) exact matches, in which:
667 unique CDR3
6 unique J



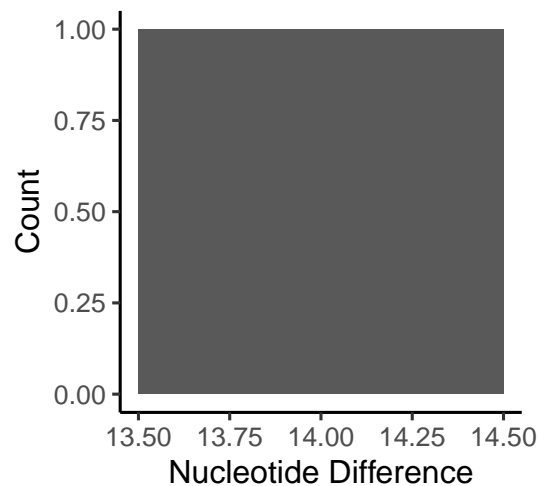
IGHV3-49*03_05

1799 sequences assigned
207 (11.5%) exact matches, in which:
124 unique CDR3
6 unique J



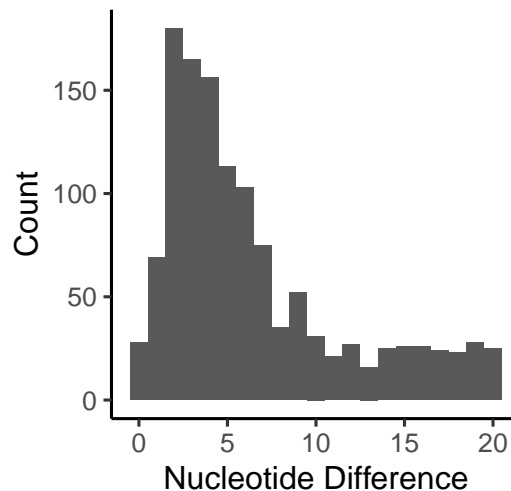
IGHV3-47*02

1 sequences assigned
No exact matches.



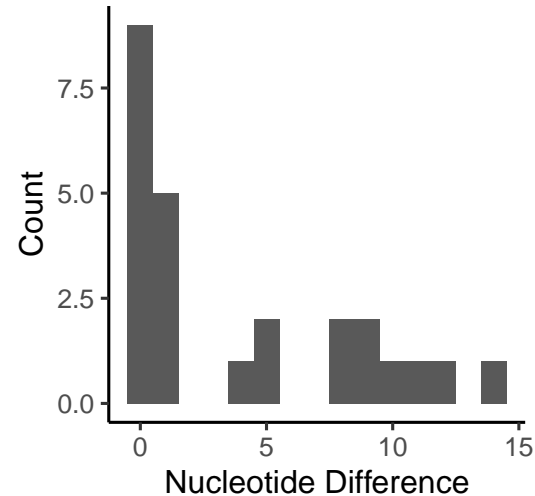
IGHV3-48*04

1420 sequences assigned
28 (2%) exact matches, in which:
28 unique CDR3
5 unique J



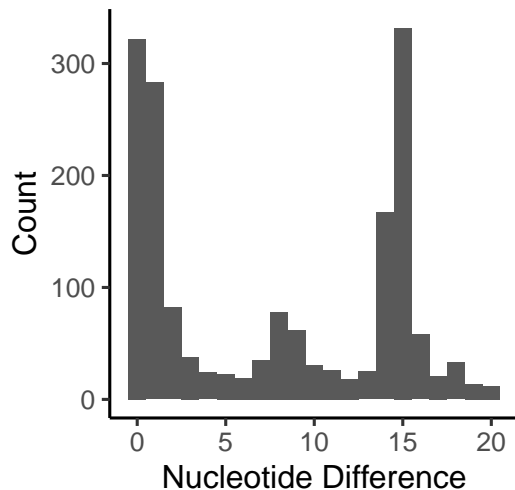
IGHV3-52*01_03

25 sequences assigned
9 (36%) exact matches, in which:
6 unique CDR3
3 unique J



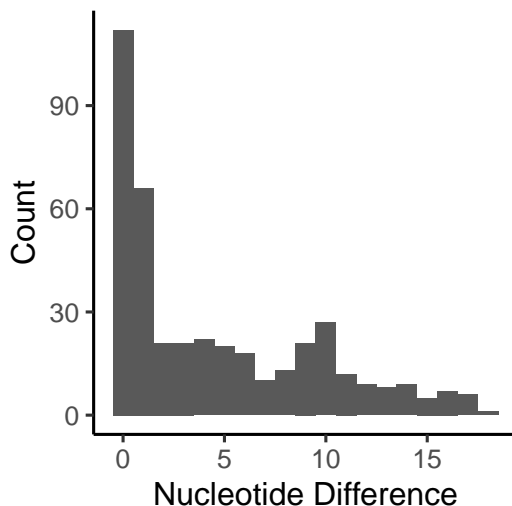
IGHV3-53*04

1748 sequences assigned
322 (18.4%) exact matches, in which:
225 unique CDR3
6 unique J



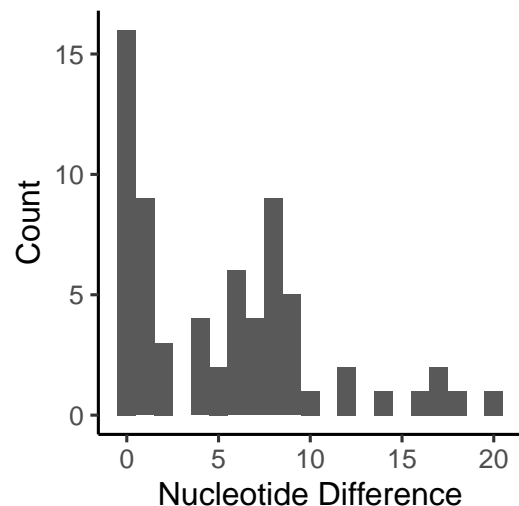
IGHV3-64*02_07

441 sequences assigned
112 (25.4%) exact matches, in which:
80 unique CDR3
6 unique J



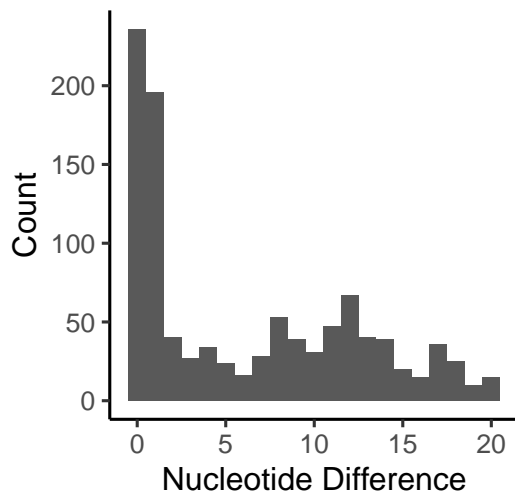
IGHV3-66*03

68 sequences assigned
16 (23.5%) exact matches, in which:
14 unique CDR3
4 unique J



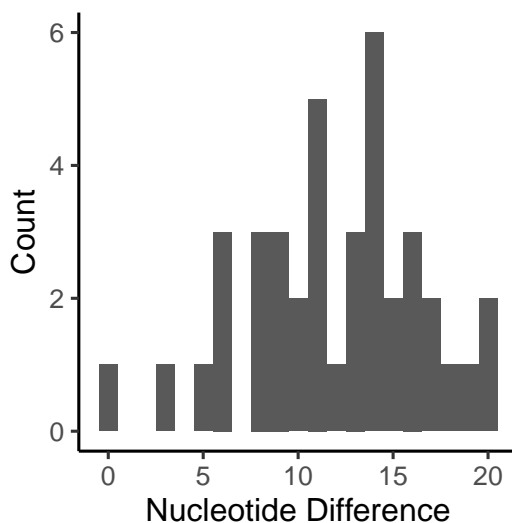
IGHV3-53*01_02

1115 sequences assigned
236 (21.2%) exact matches, in which:
154 unique CDR3
6 unique J



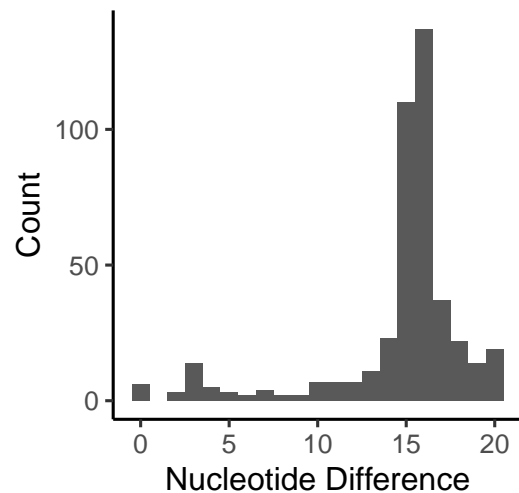
IGHV3-66*01

45 sequences assigned
1 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



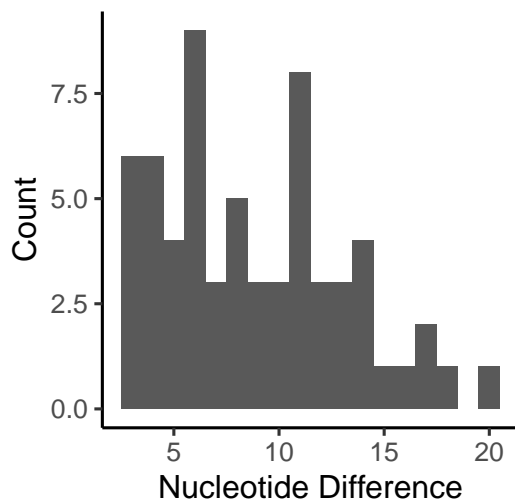
IGHV3-69-1*01

527 sequences assigned
6 (1.1%) exact matches, in which:
6 unique CDR3
3 unique J



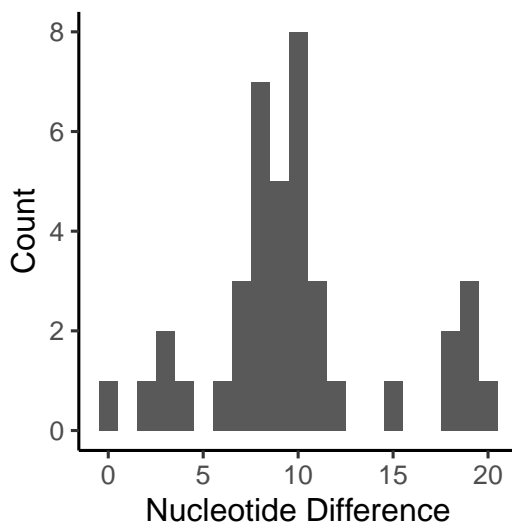
IGHV3-64*04

85 sequences assigned
No exact matches.



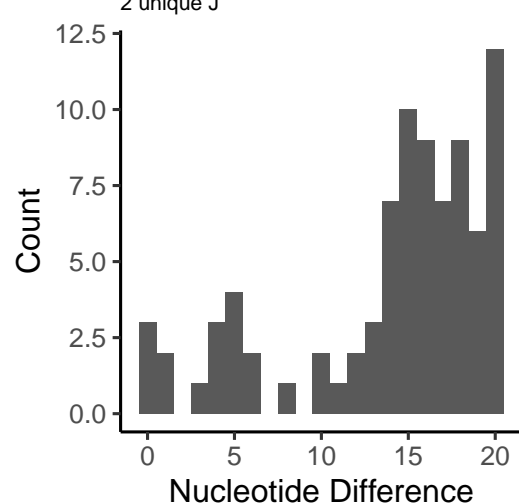
IGHV3-66*02

44 sequences assigned
1 (2.3%) exact matches, in which:
1 unique CDR3
1 unique J



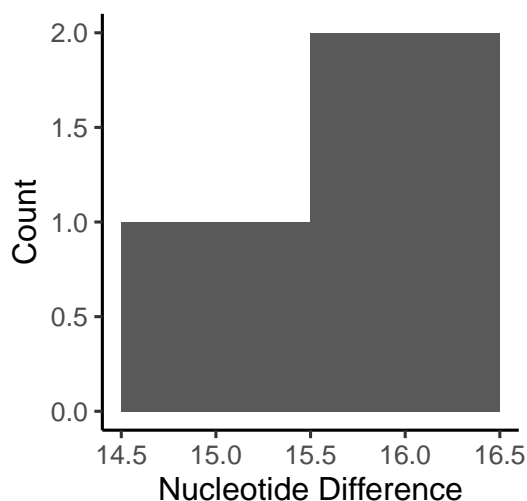
IGHV3-69-1*02

441 sequences assigned
3 (0.7%) exact matches, in which:
3 unique CDR3
2 unique J



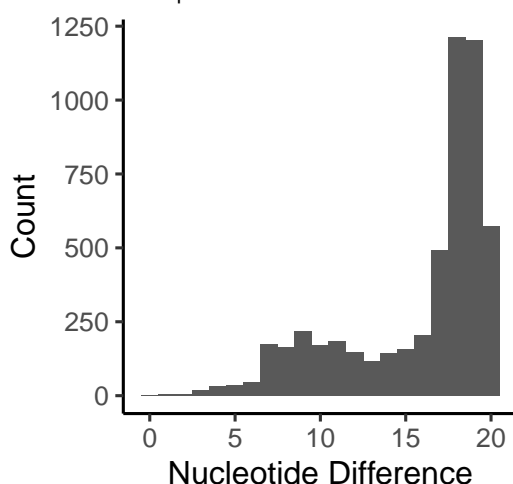
IGHV3-71*01_04

5 sequences assigned
No exact matches.



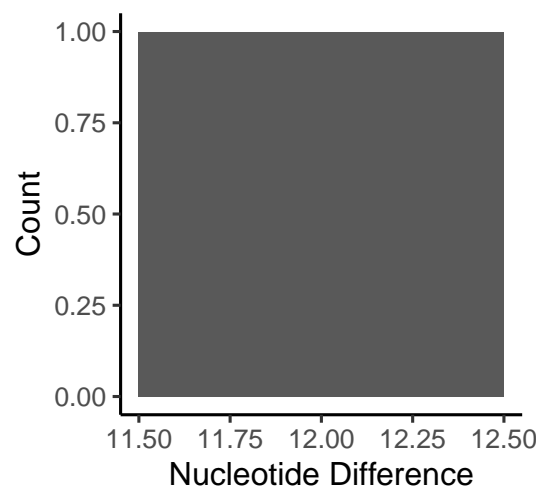
IGHV3-74*03

6512 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



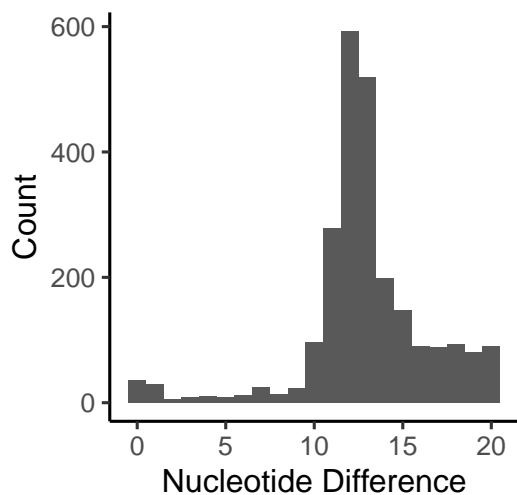
IGHV3-64D*08

1 sequences assigned
No exact matches.



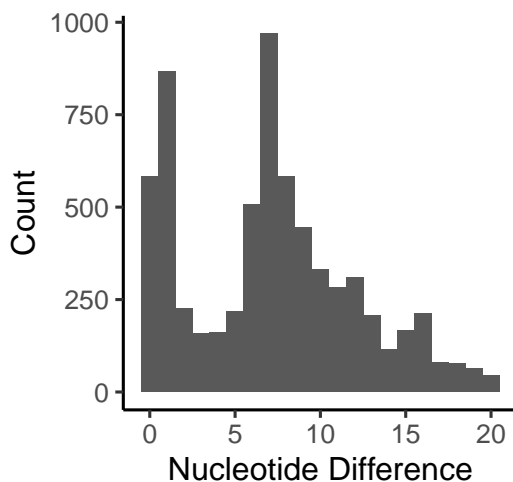
IGHV3-72*01

2704 sequences assigned
36 (1.3%) exact matches, in which:
25 unique CDR3
4 unique J



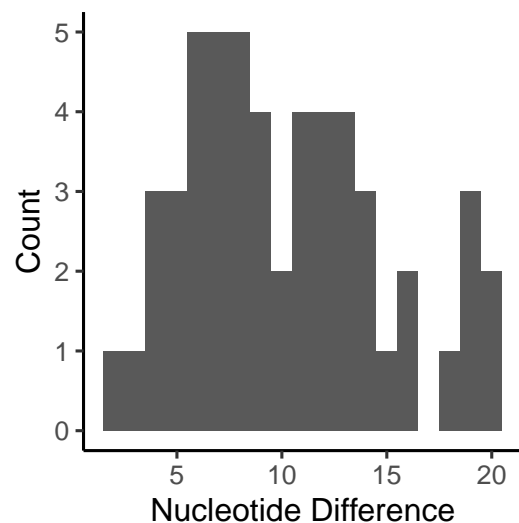
IGHV3-74*01_02

6701 sequences assigned
582 (8.7%) exact matches, in which:
312 unique CDR3
6 unique J



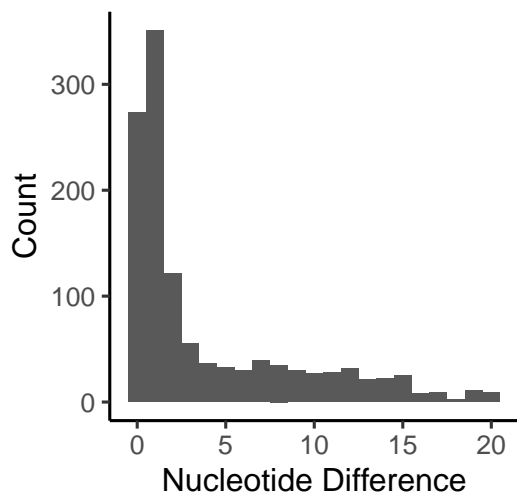
IGHV3-NL1*01

75 sequences assigned
No exact matches.



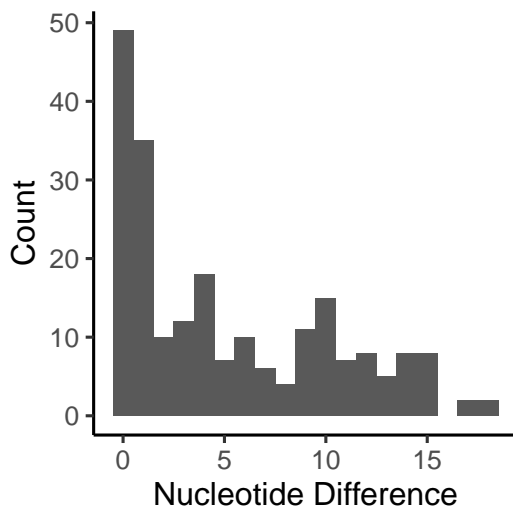
IGHV3-73*01_02

1431 sequences assigned
273 (19.1%) exact matches, in which:
154 unique CDR3
6 unique J



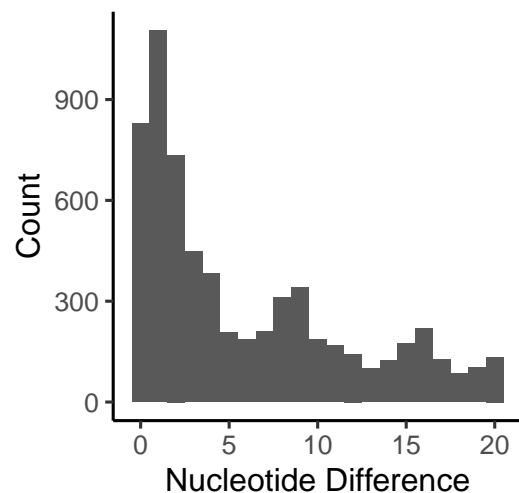
IGHV3-43D*04

221 sequences assigned
49 (22.2%) exact matches, in which:
39 unique CDR3
3 unique J



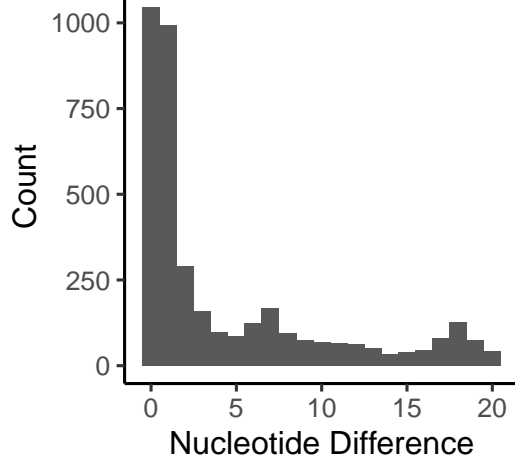
IGHV4-4*07

7620 sequences assigned
828 (10.9%) exact matches, in which:
641 unique CDR3
6 unique J



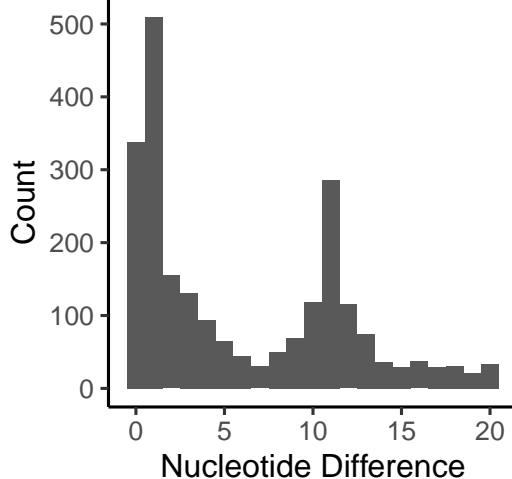
IGHV4-4*02_03

4293 sequences assigned
1045 (24.3%) exact matches, in which:
757 unique CDR3
6 unique J



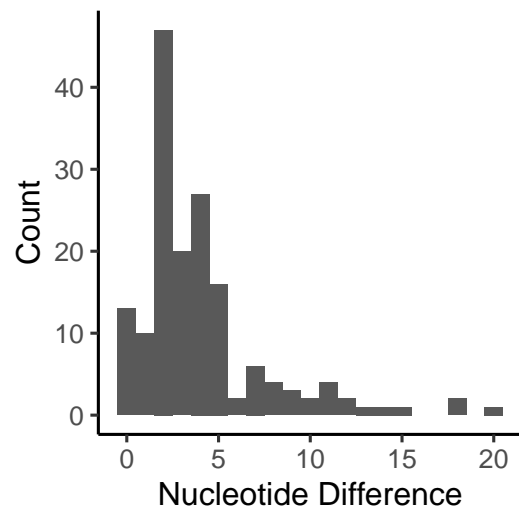
IGHV4-30-4*01

3362 sequences assigned
338 (10.1%) exact matches, in which:
230 unique CDR3
6 unique J



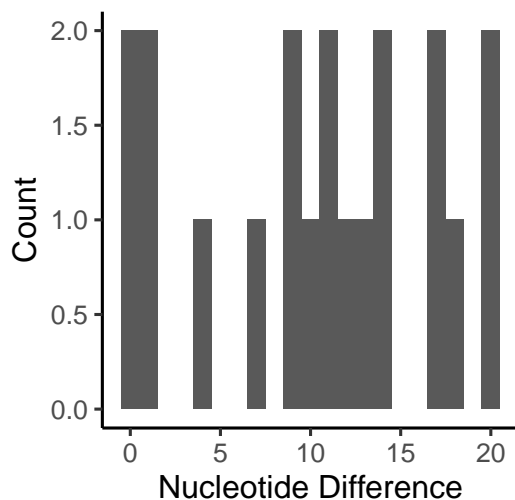
IGHV4-30-2*05

165 sequences assigned
13 (7.9%) exact matches, in which:
13 unique CDR3
2 unique J



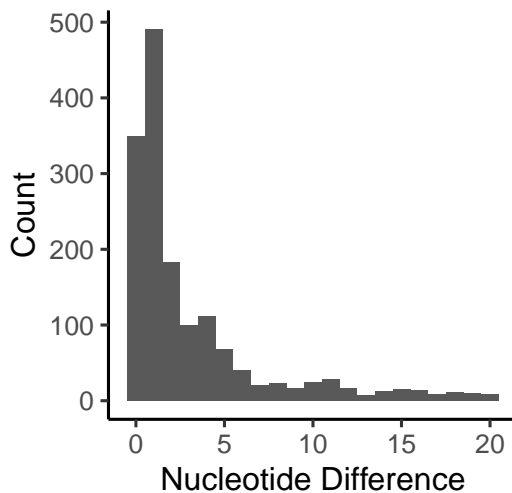
IGHV4-28*03

22 sequences assigned
2 (9.1%) exact matches, in which:
2 unique CDR3
2 unique J



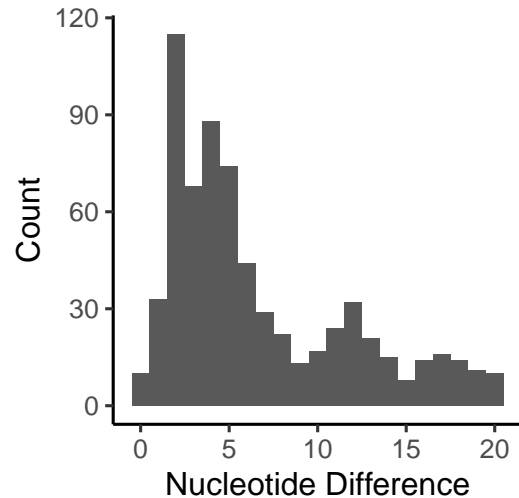
IGHV4-30-2*01

1621 sequences assigned
350 (21.6%) exact matches, in which:
181 unique CDR3
6 unique J



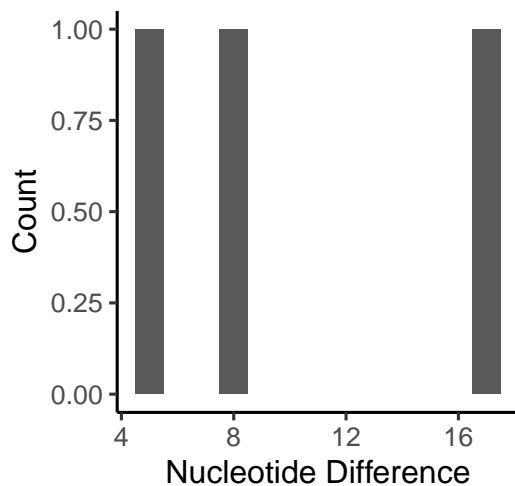
IGHV4-30-4*08

1106 sequences assigned
10 (0.9%) exact matches, in which:
9 unique CDR3
3 unique J



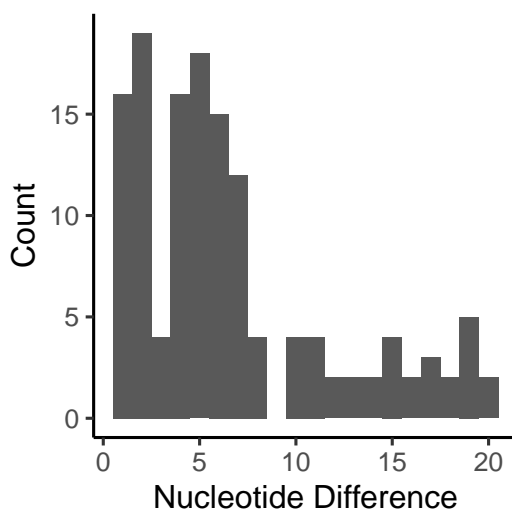
IGHV4-28*01_07

4 sequences assigned
No exact matches.



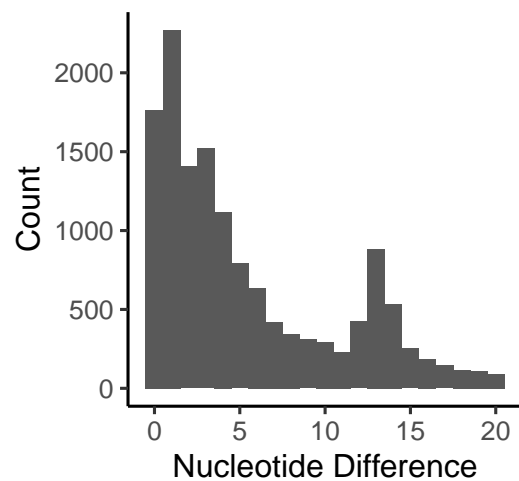
IGHV4-30-2*03

141 sequences assigned
No exact matches.



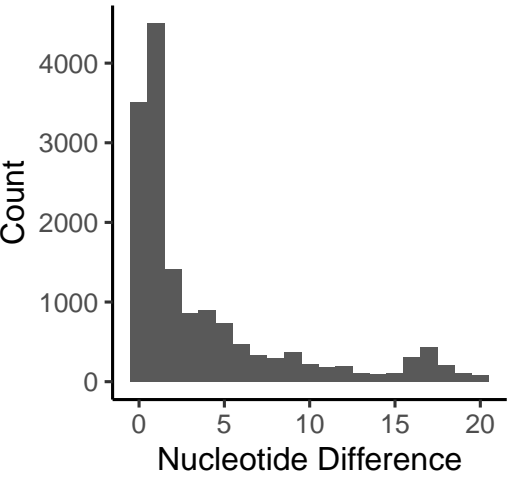
IGHV4-31*02

15272 sequences assigned
1764 (11.6%) exact matches, in which:
1369 unique CDR3
6 unique J



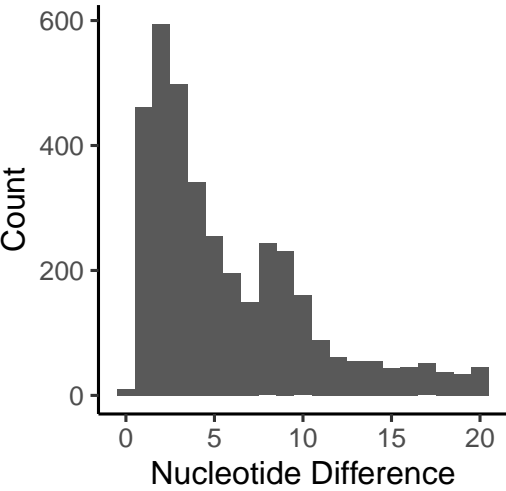
IGHV4-34*01_02

16148 sequences assigned
3506 (21.7%) exact matches, in which:
2422 unique CDR3
6 unique J



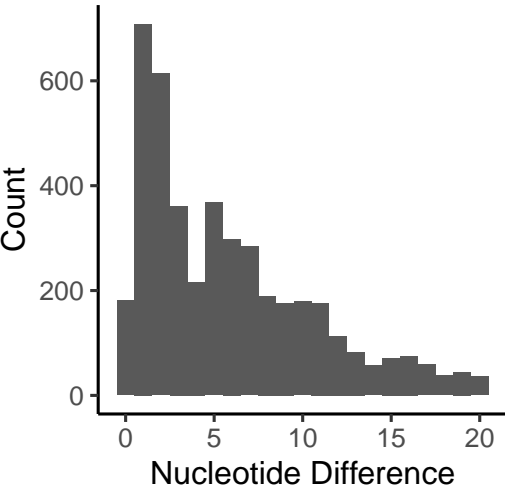
IGHV4-39*07

3951 sequences assigned
10 (0.3%) exact matches, in which:
10 unique CDR3
5 unique J



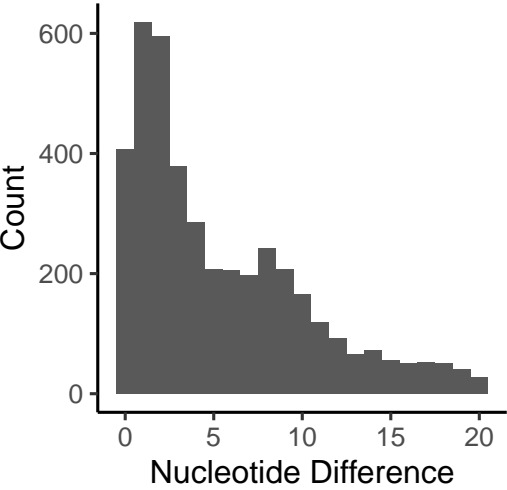
IGHV4-59*12

4718 sequences assigned
181 (3.8%) exact matches, in which:
178 unique CDR3
5 unique J



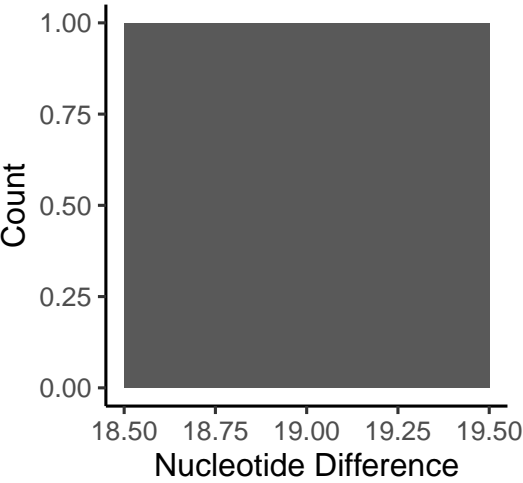
IGHV4-38-2*01

4389 sequences assigned
407 (9.3%) exact matches, in which:
337 unique CDR3
6 unique J



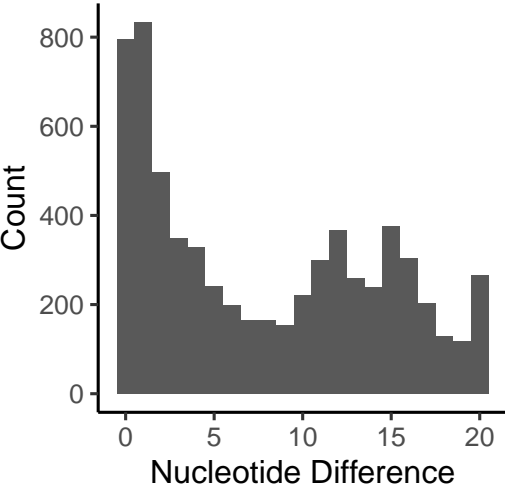
IGHV4-55*09

1 sequences assigned
No exact matches.



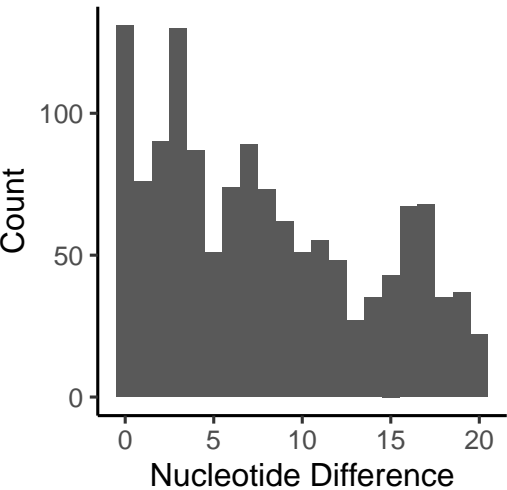
IGHV4-61*01

7737 sequences assigned
795 (10.3%) exact matches, in which:
679 unique CDR3
6 unique J



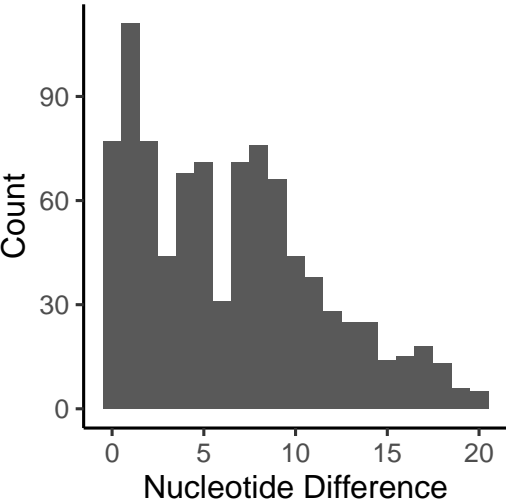
IGHV4-38-2*02

1578 sequences assigned
131 (8.3%) exact matches, in which:
105 unique CDR3
6 unique J



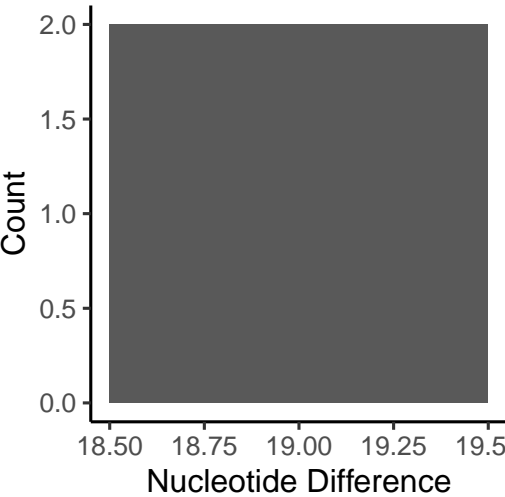
IGHV4-59*08

1642 sequences assigned
77 (4.7%) exact matches, in which:
70 unique CDR3
6 unique J



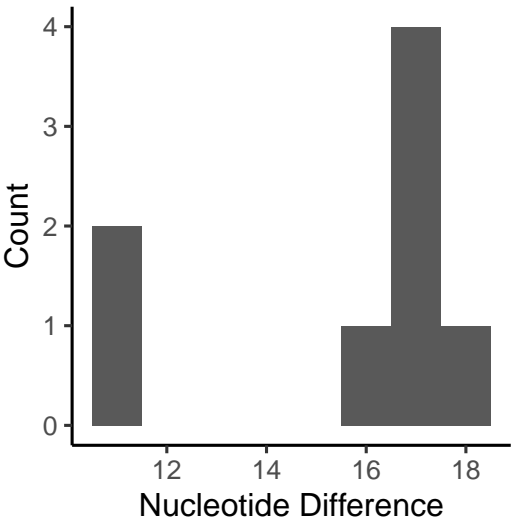
IGHV1/OR15-1*04

2 sequences assigned
No exact matches.



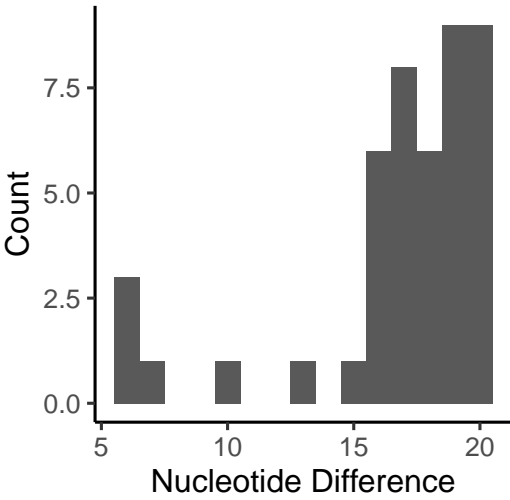
IGHV1/OR15-2*02_03

10 sequences assigned
No exact matches.



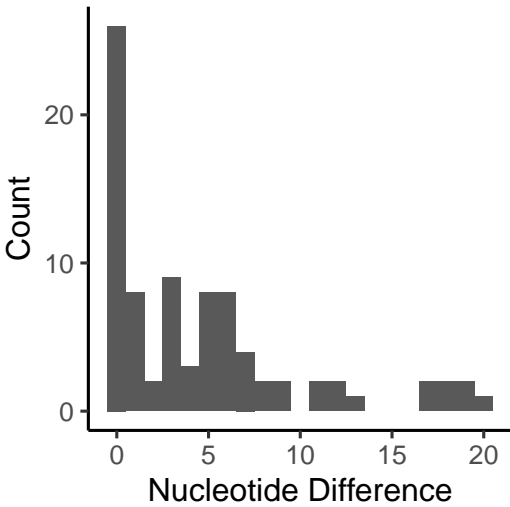
IGHV4/OR15-8*02

1596 sequences assigned
No exact matches.



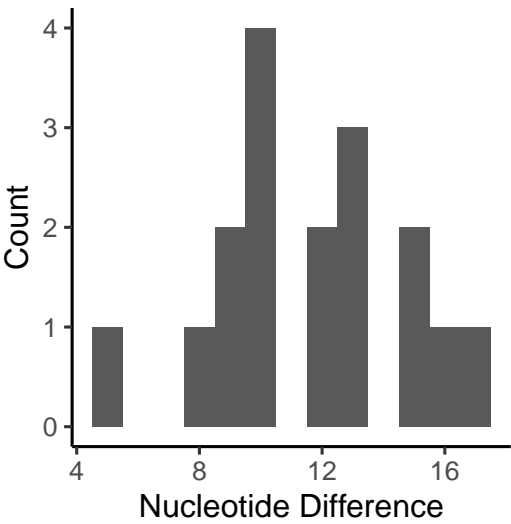
IGHV5-51*04

119 sequences assigned
26 (21.8%) exact matches, in which:
26 unique CDR3
4 unique J



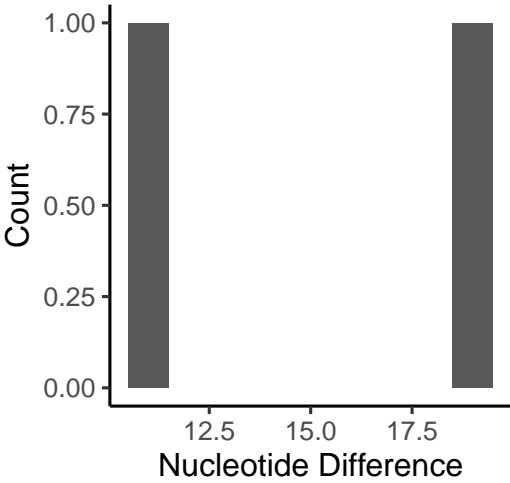
IGHV1/OR15-3*02

17 sequences assigned
No exact matches.



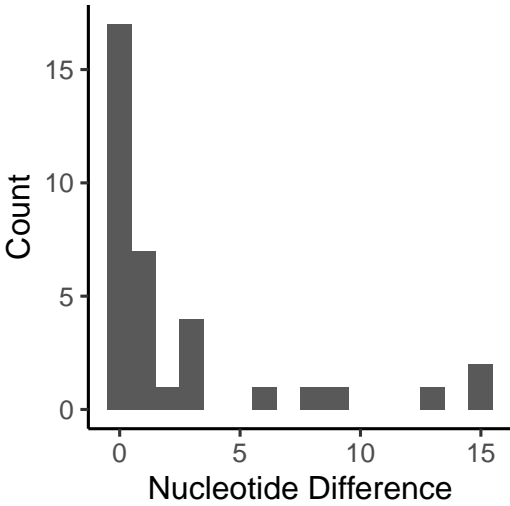
IGHV1/OR15-9*01

2 sequences assigned
No exact matches.



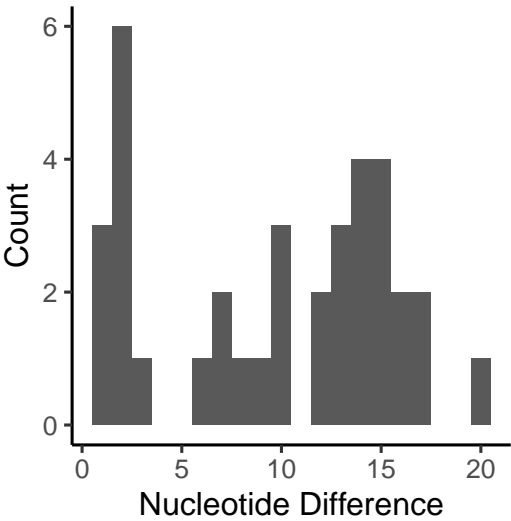
IGHV5-51*06

37 sequences assigned
17 (45.9%) exact matches, in which:
17 unique CDR3
4 unique J



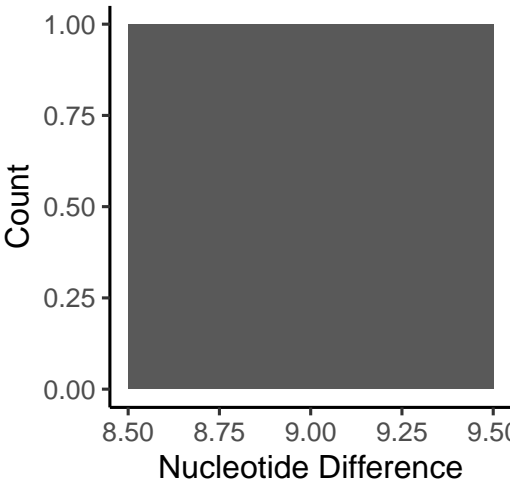
IGHV4/OR15-8*01

45 sequences assigned
No exact matches.



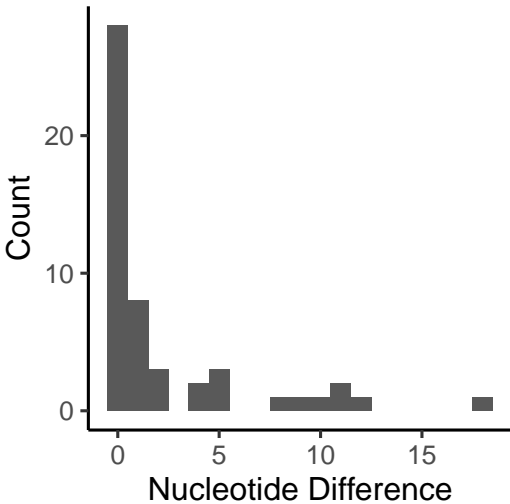
IGHV5-10-1*01_03

2 sequences assigned
No exact matches.



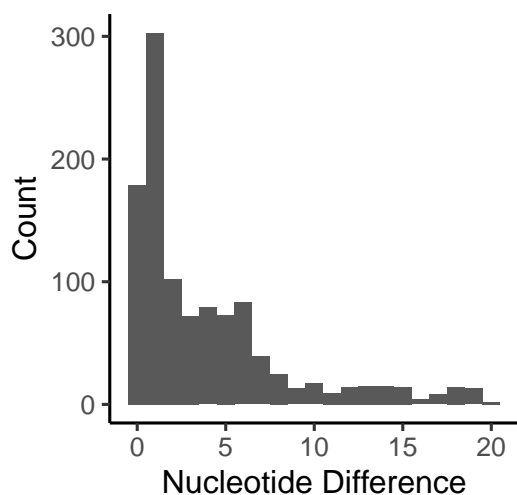
IGHV5-51*07

56 sequences assigned
28 (50%) exact matches, in which:
28 unique CDR3
4 unique J



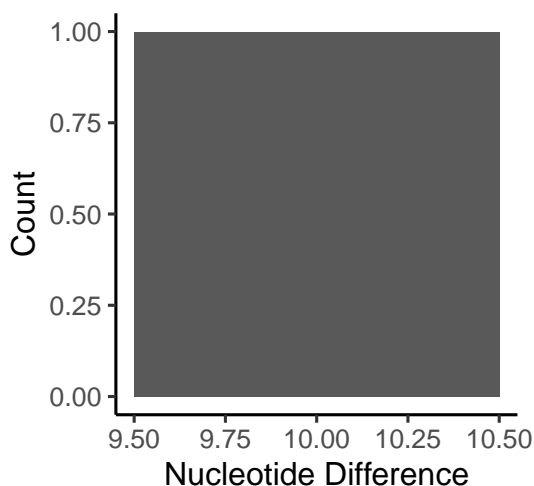
IGHV6-1*01_02

1101 sequences assigned
179 (16.3%) exact matches, in which:
127 unique CDR3
6 unique J



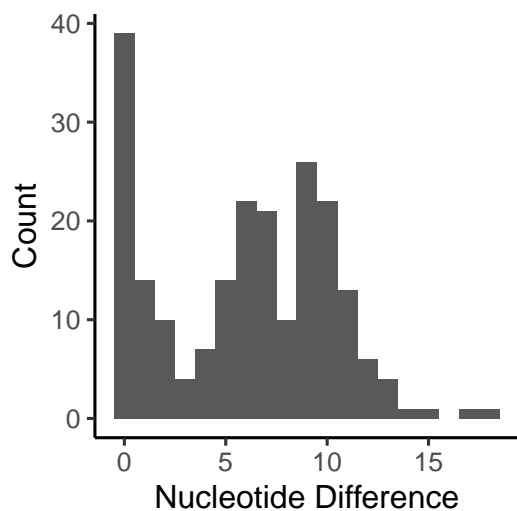
IGHV3/OR16-13*01

1 sequences assigned
No exact matches.



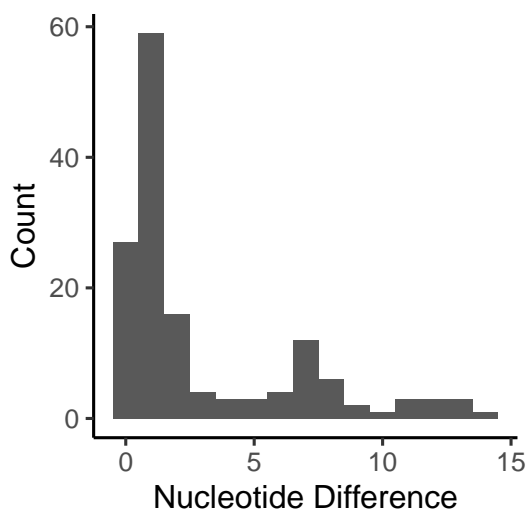
IGHV6-1*01_02_A315G

225 sequences assigned
39 (17.3%) exact matches, in which:
39 unique CDR3
4 unique J



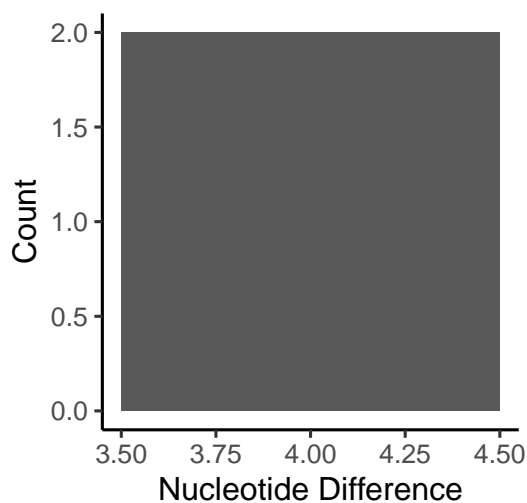
IGHV7-4-1*01

148 sequences assigned
27 (18.2%) exact matches, in which:
23 unique CDR3
3 unique J



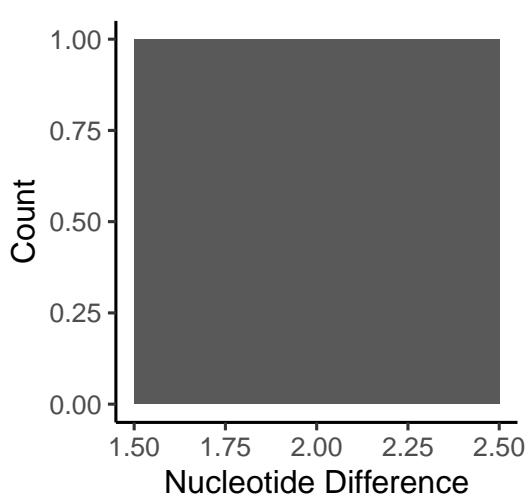
IGHV3/OR16-9*01

2 sequences assigned
No exact matches.



IGHV7-81*01

1 sequences assigned
No exact matches.



IGHV6-1*01_02_A315G

