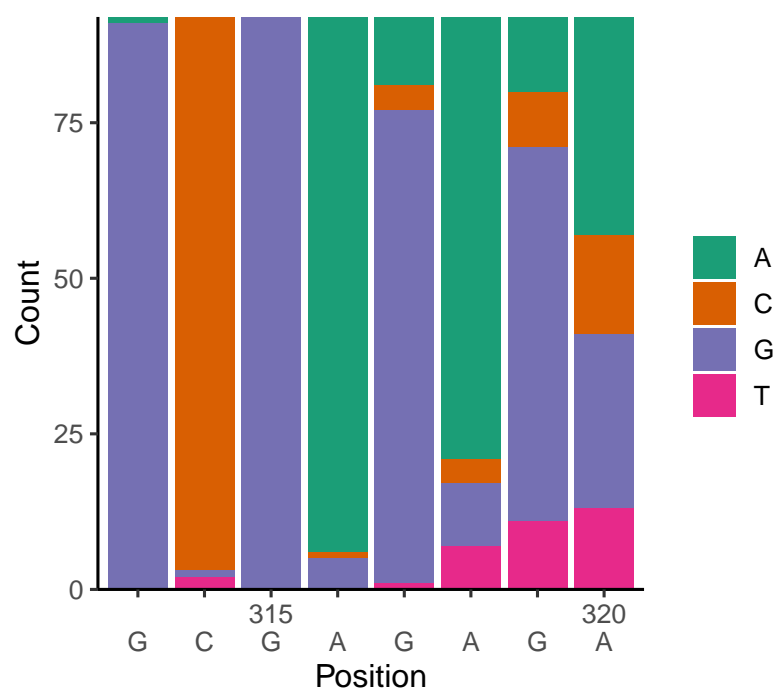


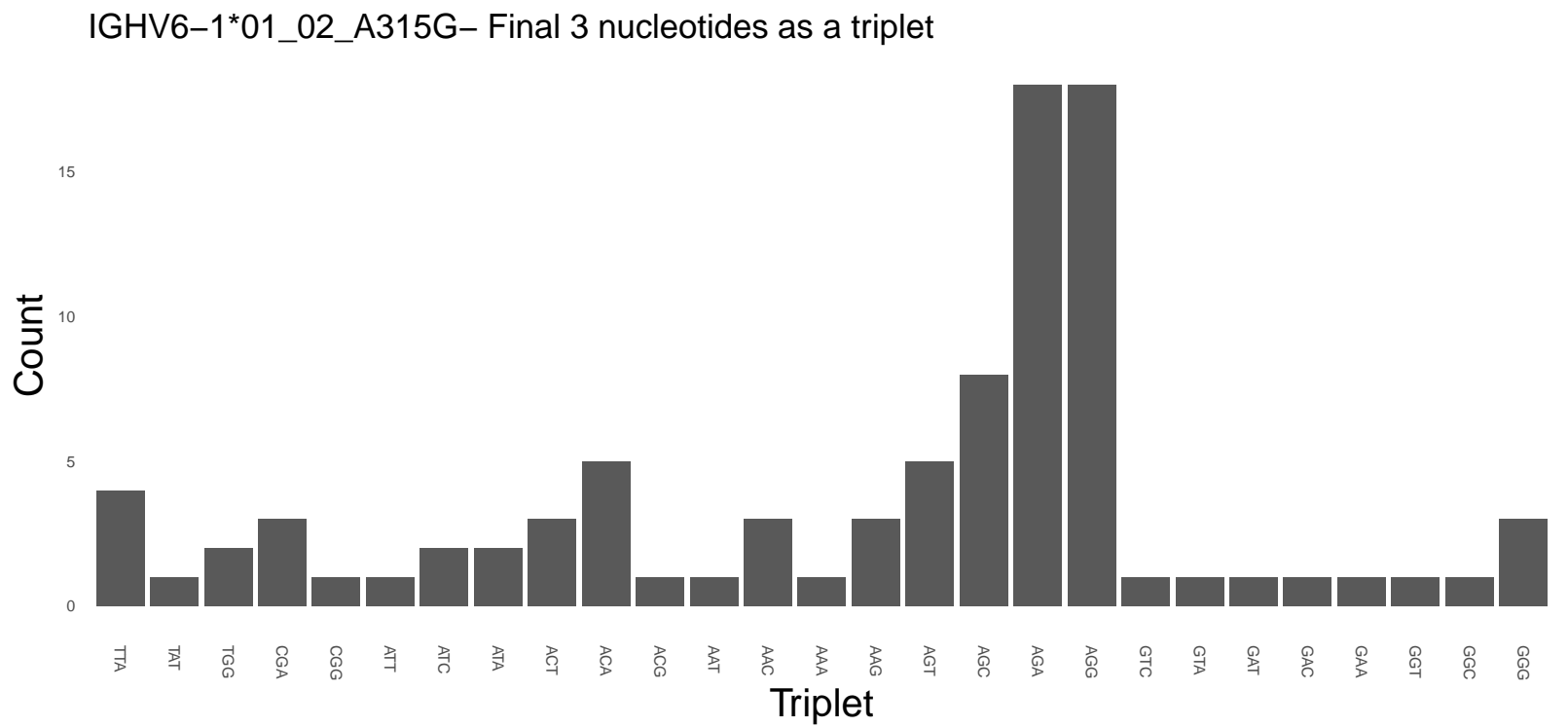
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

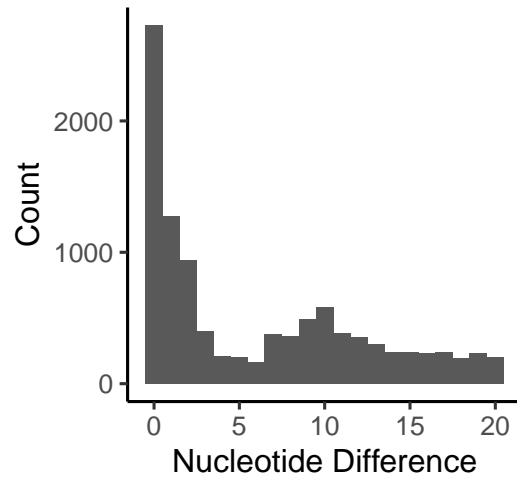


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



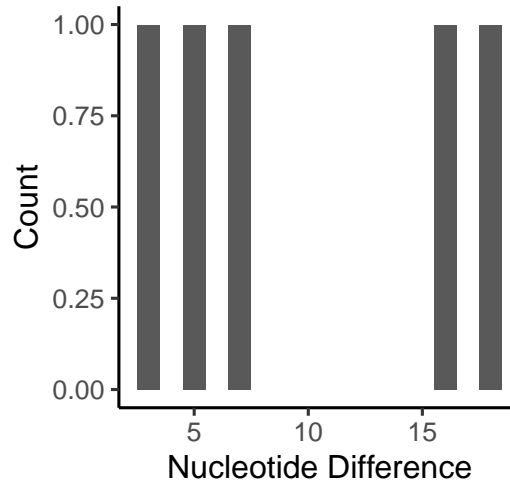
IGHV1-2*02

12111 sequences assigned
2727 (22.5%) exact matches, in which:
2596 unique CDR3
6 unique J



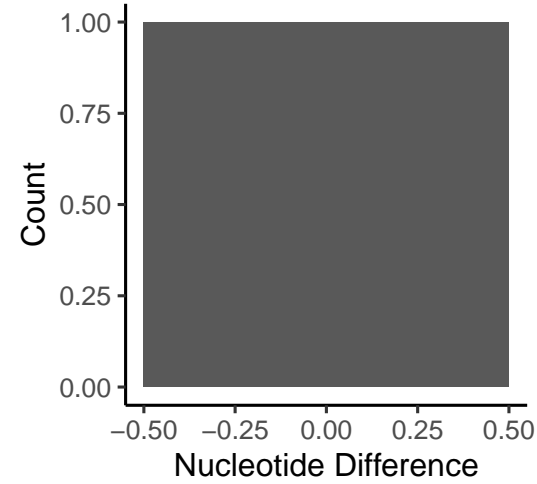
IGHV1-8*02

7 sequences assigned
No exact matches.



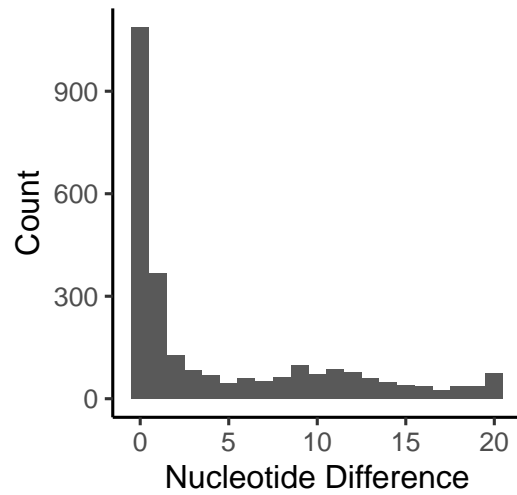
IGHV1-38-4*01

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



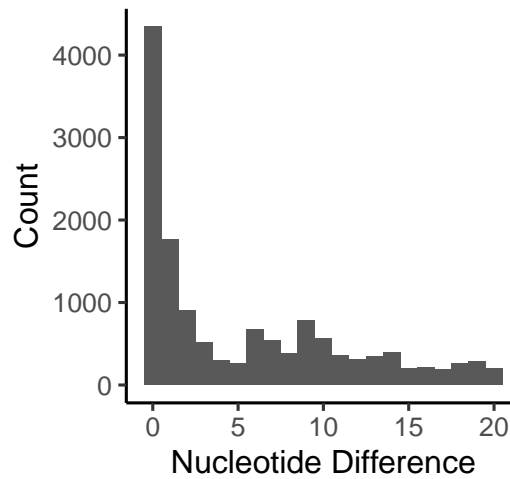
IGHV1-3*01_05

3097 sequences assigned
1088 (35.1%) exact matches, in which:
1014 unique CDR3
6 unique J



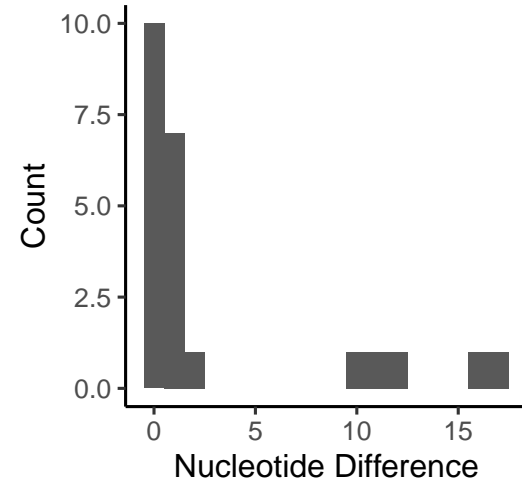
IGHV1-18*01

15354 sequences assigned
4344 (28.3%) exact matches, in which:
4124 unique CDR3
6 unique J



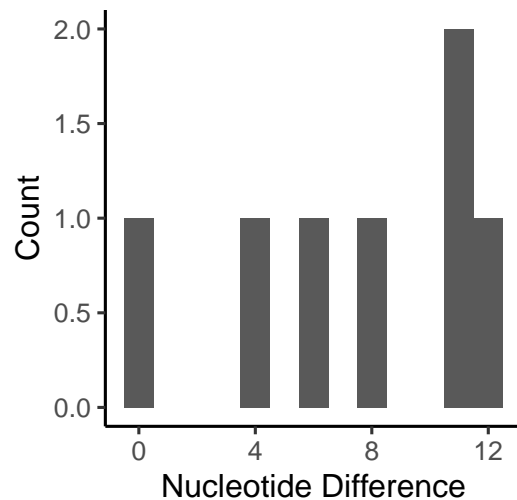
IGHV1-45*02

23 sequences assigned
10 (43.5%) exact matches, in which:
10 unique CDR3
4 unique J



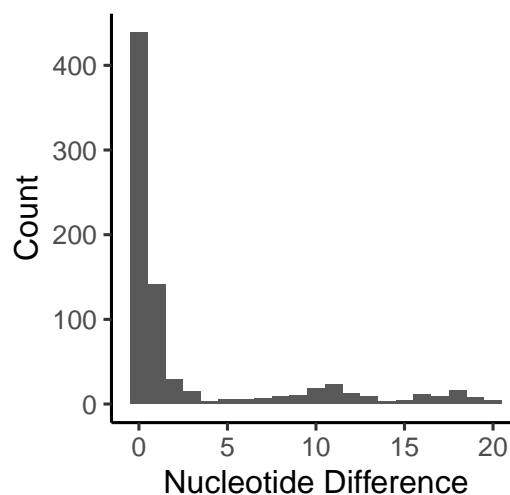
IGHV1-8*01

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



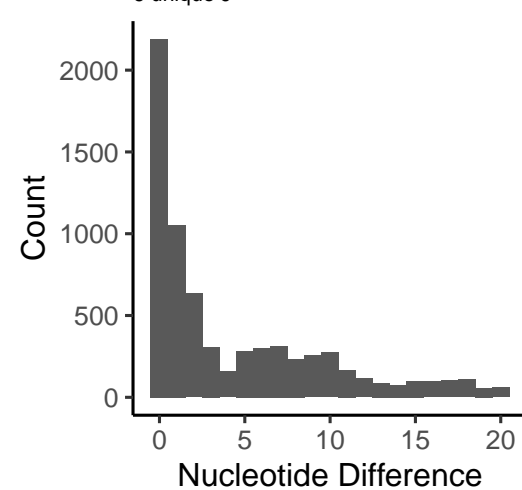
IGHV1-24*01

849 sequences assigned
439 (51.7%) exact matches, in which:
423 unique CDR3
6 unique J



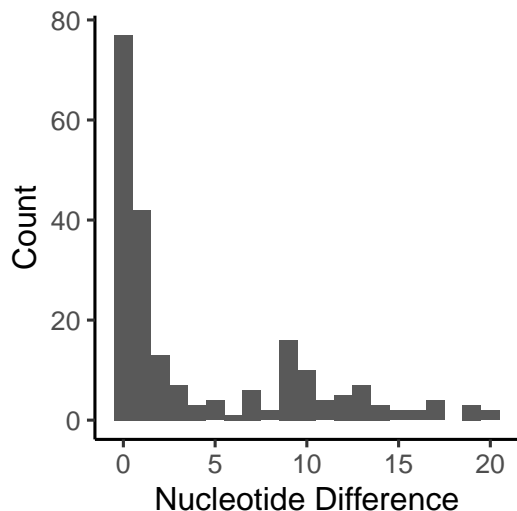
IGHV1-46*01

7505 sequences assigned
2190 (29.2%) exact matches, in which:
2097 unique CDR3
6 unique J



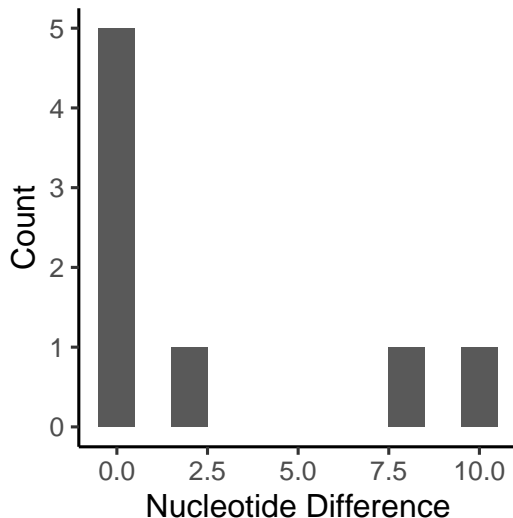
IGHV1-58*02

225 sequences assigned
77 (34.2%) exact matches, in which:
75 unique CDR3
5 unique J



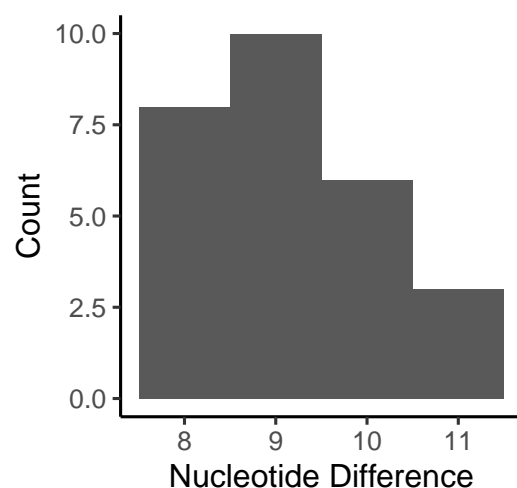
IGHV1-69-2*01

12 sequences assigned
5 (41.7%) exact matches, in which:
5 unique CDR3
2 unique J



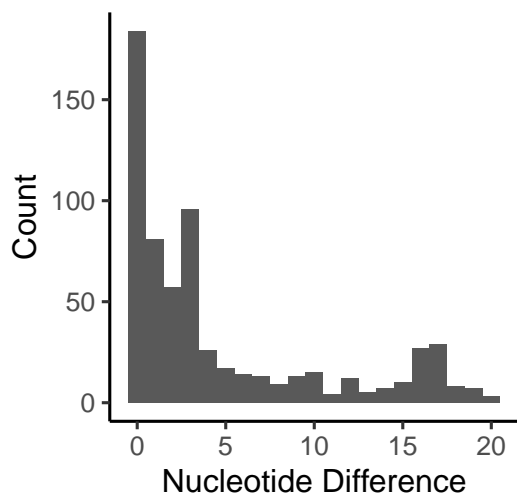
IGHV1-NL1*01

27 sequences assigned
No exact matches.



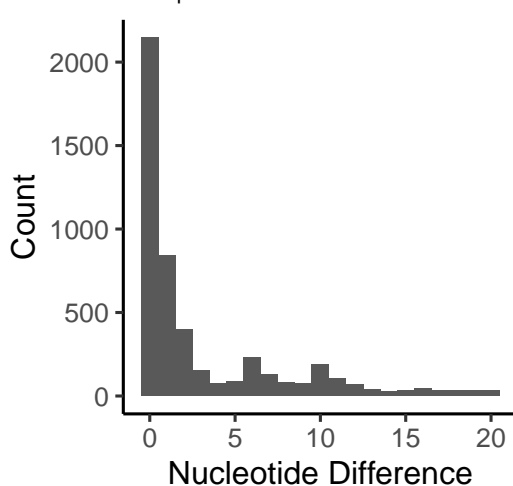
IGHV1-58*01_03

676 sequences assigned
184 (27.2%) exact matches, in which:
172 unique CDR3
5 unique J



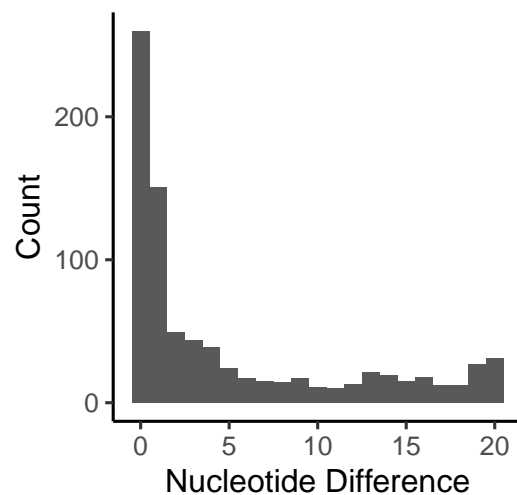
IGHV1-69*01_12_13

5302 sequences assigned
2146 (40.5%) exact matches, in which:
2077 unique CDR3
6 unique J



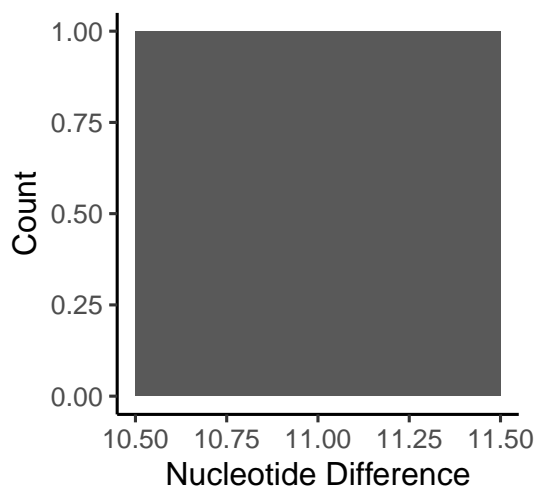
IGHV2-5*02

900 sequences assigned
260 (28.9%) exact matches, in which:
247 unique CDR3
6 unique J



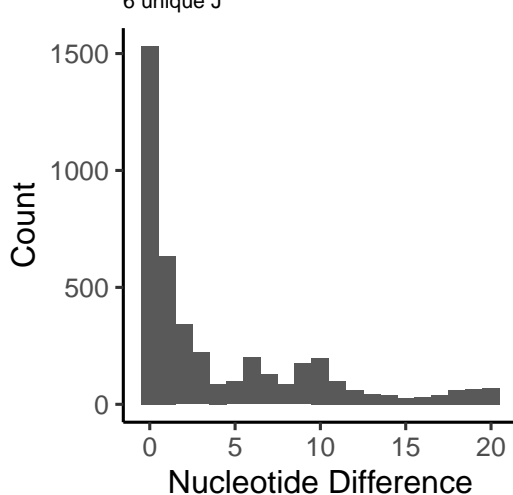
IGHV1-68*01

1 sequences assigned
No exact matches.



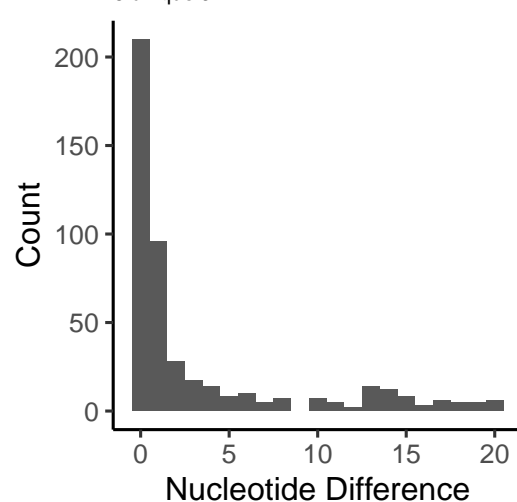
IGHV1-69*06_14

4598 sequences assigned
1532 (33.3%) exact matches, in which:
1485 unique CDR3
6 unique J



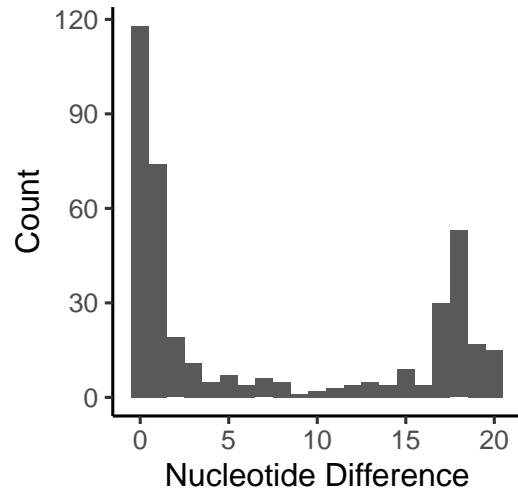
IGHV2-26*01

488 sequences assigned
210 (43%) exact matches, in which:
191 unique CDR3
6 unique J



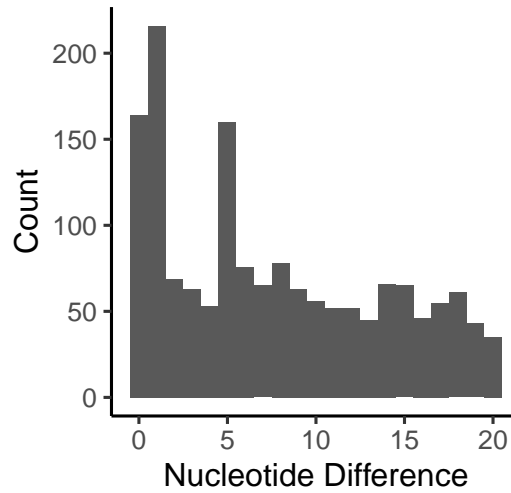
IGHV2-70*01

433 sequences assigned
118 (27.3%) exact matches, in which:
113 unique CDR3
5 unique J



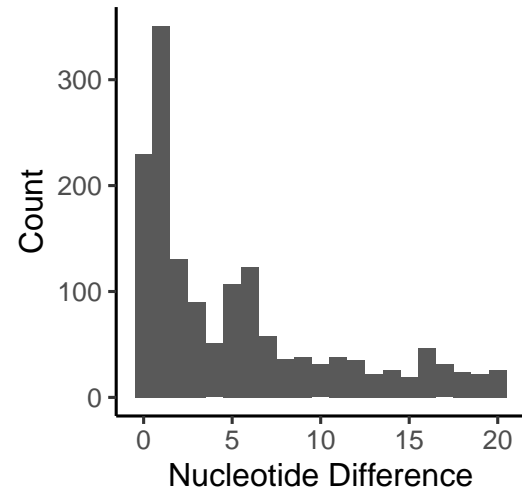
IGHV3-7*01

1782 sequences assigned
164 (9.2%) exact matches, in which:
163 unique CDR3
6 unique J



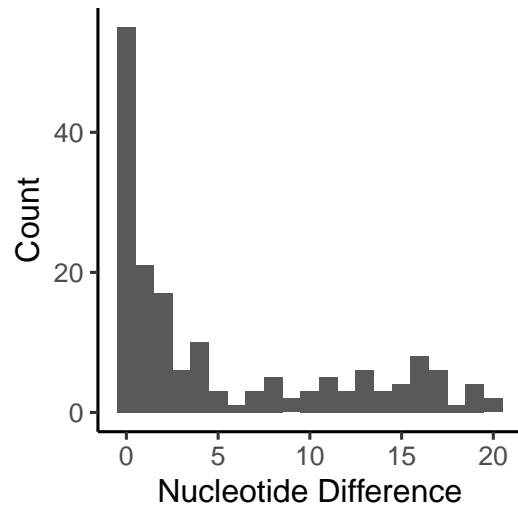
IGHV3-11*06

1704 sequences assigned
230 (13.5%) exact matches, in which:
225 unique CDR3
5 unique J



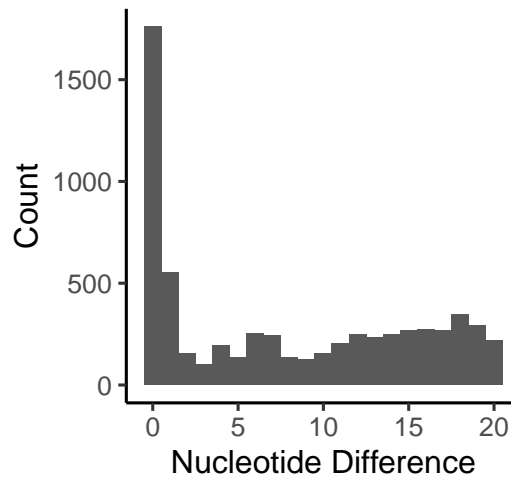
IGHV2-70*04

207 sequences assigned
55 (26.6%) exact matches, in which:
52 unique CDR3
4 unique J



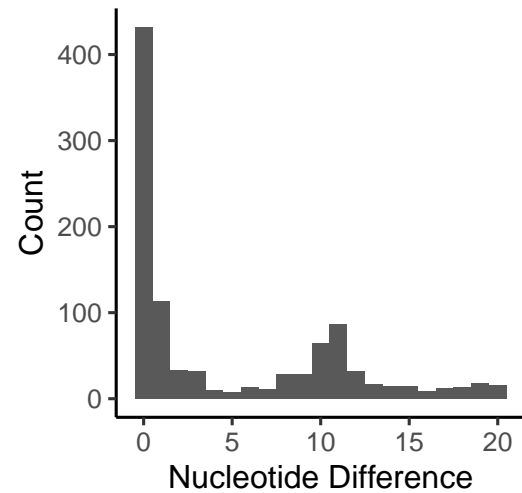
IGHV3-7*03

7928 sequences assigned
1760 (22.2%) exact matches, in which:
1525 unique CDR3
6 unique J



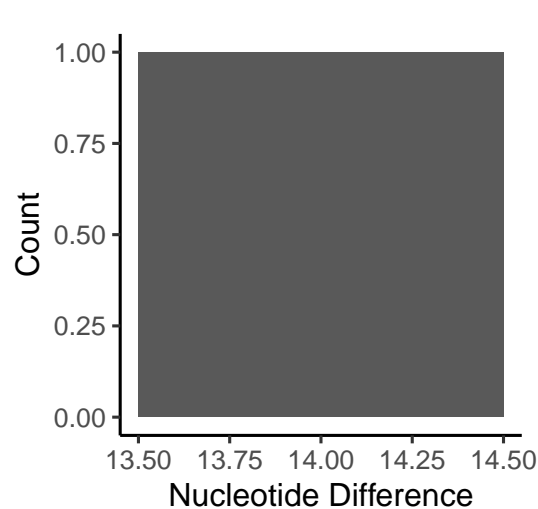
IGHV3-13*04

1083 sequences assigned
432 (39.9%) exact matches, in which:
356 unique CDR3
6 unique J



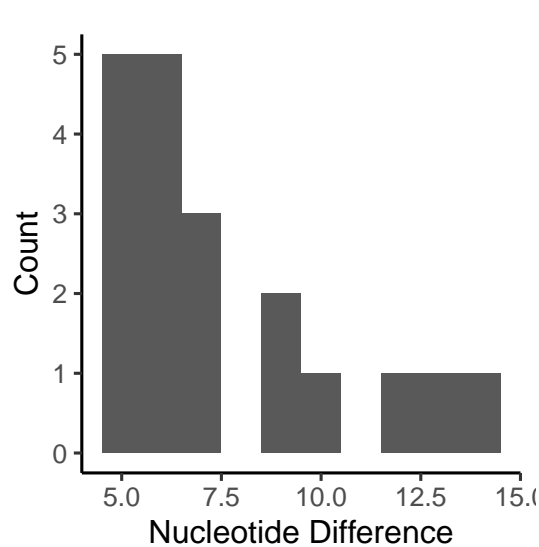
IGHV2-70D*14

1 sequences assigned
No exact matches.



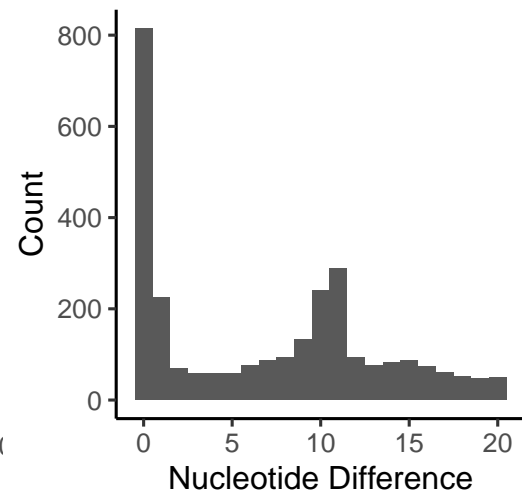
IGHV3-9*01

21 sequences assigned
No exact matches.



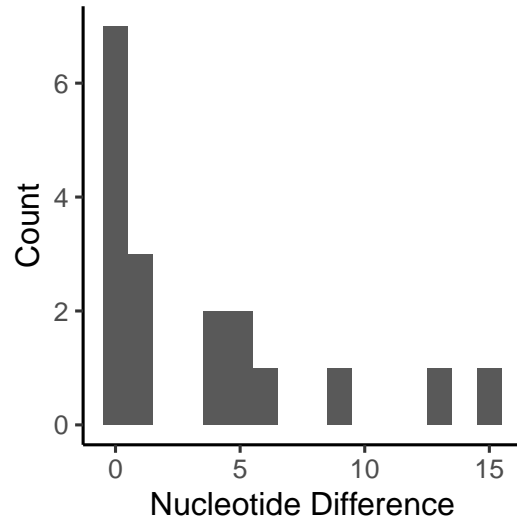
IGHV3-15*01_02

3866 sequences assigned
815 (21.1%) exact matches, in which:
713 unique CDR3
6 unique J



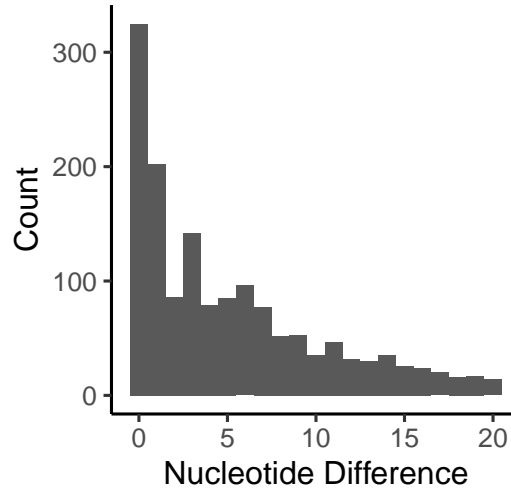
IGHV3-19*01

18 sequences assigned
7 (38.9%) exact matches, in which:
6 unique CDR3
2 unique J



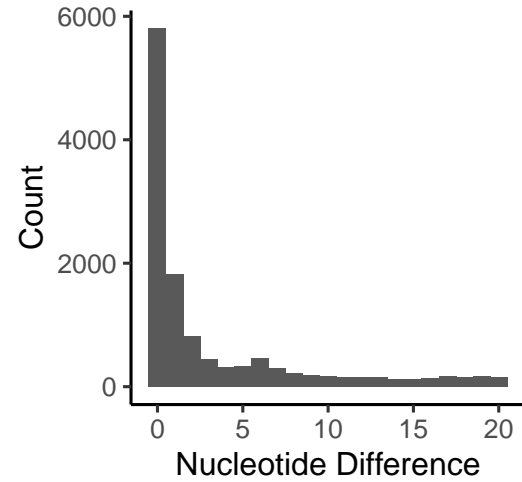
IGHV3-21*04

1750 sequences assigned
325 (18.6%) exact matches, in which:
321 unique CDR3
6 unique J



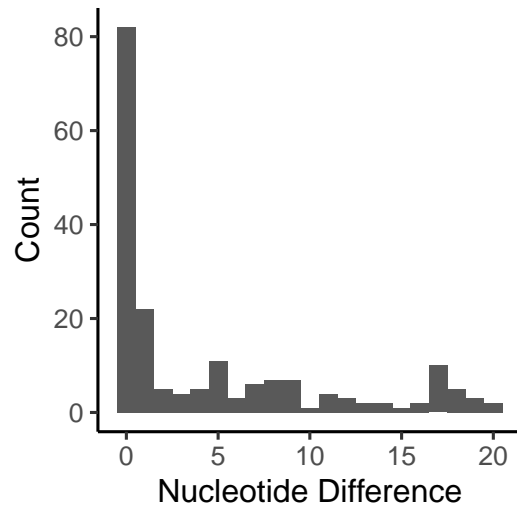
IGHV3-30-3*01

14280 sequences assigned
5804 (40.6%) exact matches, in which:
4946 unique CDR3
6 unique J



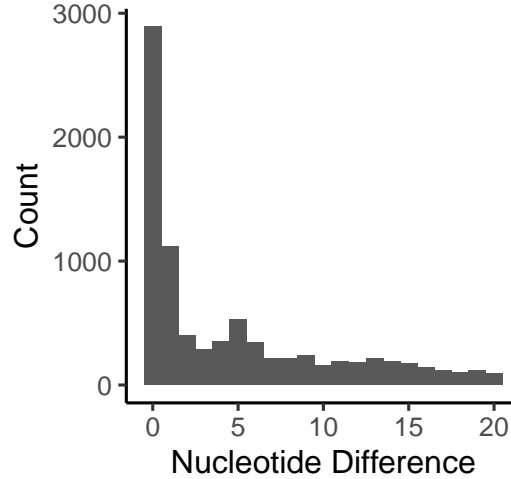
IGHV3-20*01_02

200 sequences assigned
82 (41%) exact matches, in which:
73 unique CDR3
5 unique J



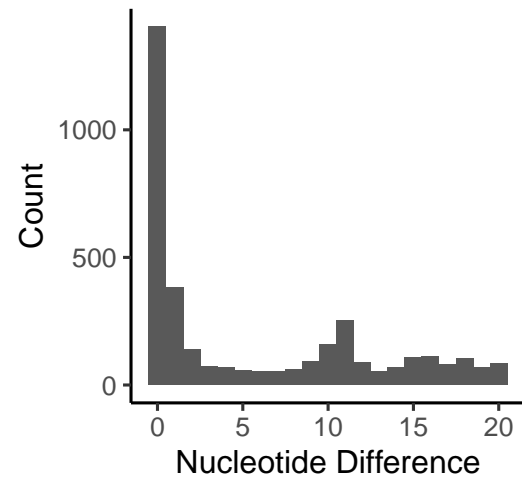
IGHV3-21*01_02

9509 sequences assigned
2891 (30.4%) exact matches, in which:
2470 unique CDR3
6 unique J



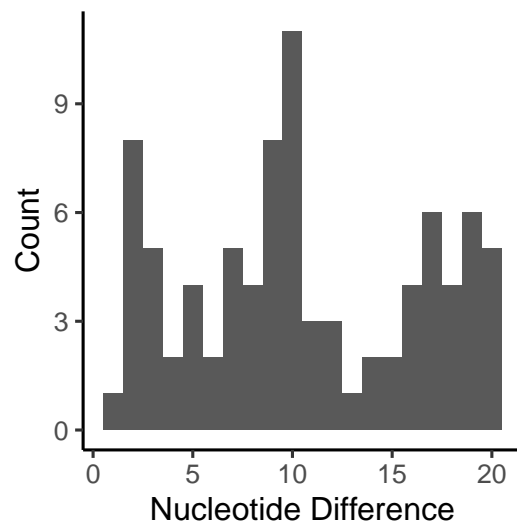
IGHV3-30*03

4088 sequences assigned
1404 (34.3%) exact matches, in which:
1352 unique CDR3
6 unique J



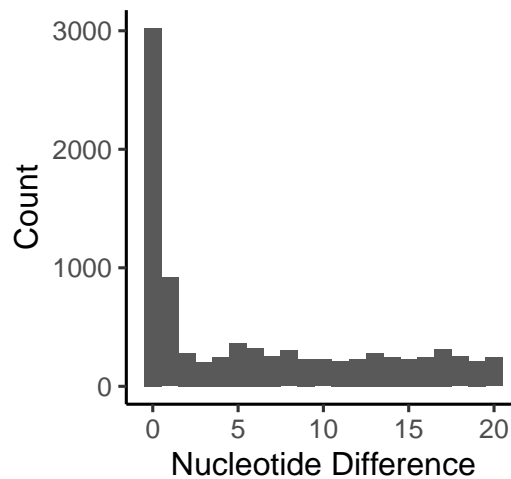
IGHV3-20*03_04

150 sequences assigned
No exact matches.



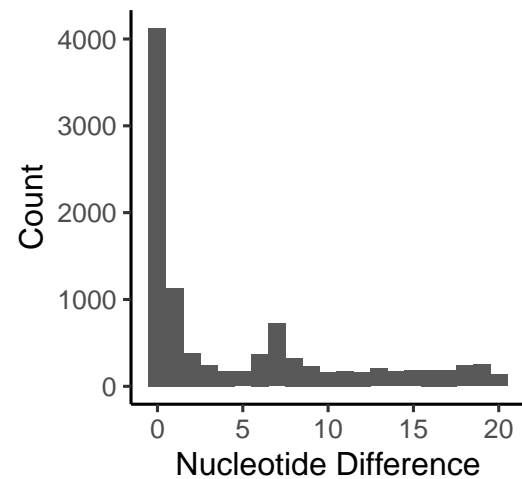
IGHV3-23*01_04

11824 sequences assigned
3023 (25.6%) exact matches, in which:
2550 unique CDR3
6 unique J



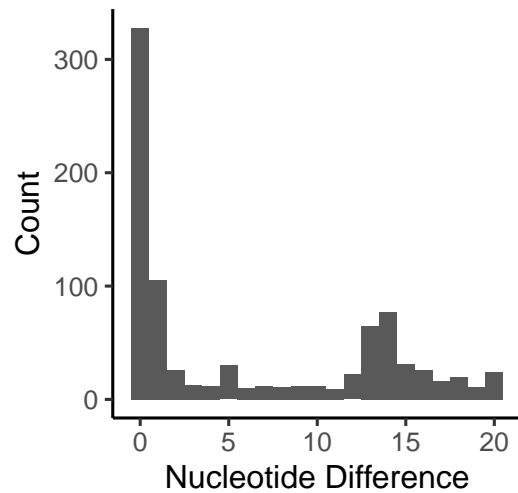
IGHV3-30*18

11183 sequences assigned
4126 (36.9%) exact matches, in which:
3543 unique CDR3
6 unique J



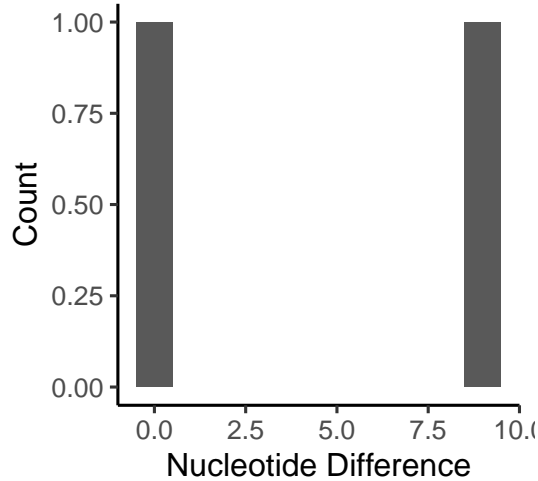
IGHV3–33*01

973 sequences assigned
328 (33.7%) exact matches, in which:
302 unique CDR3
6 unique J



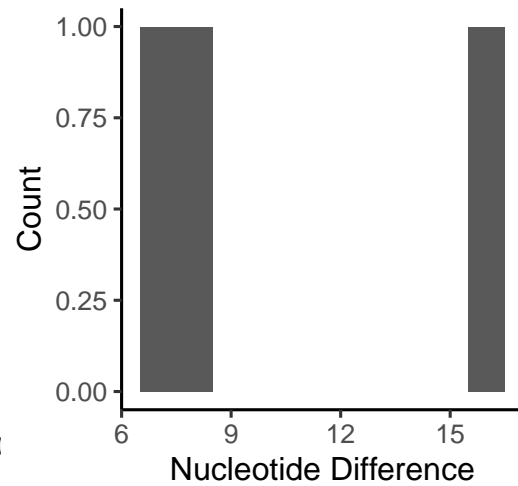
IGHV3–35*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



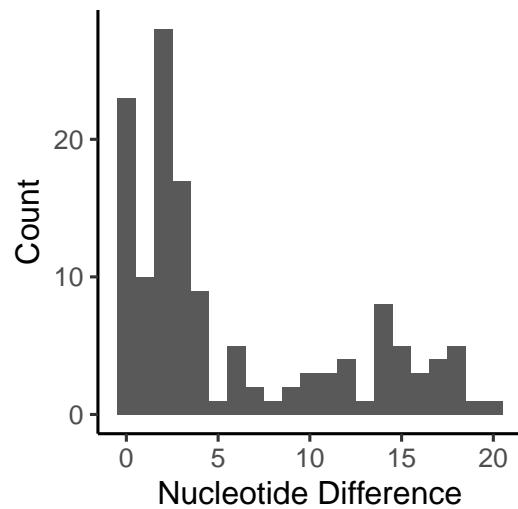
IGHV3–38*03

3 sequences assigned
No exact matches.



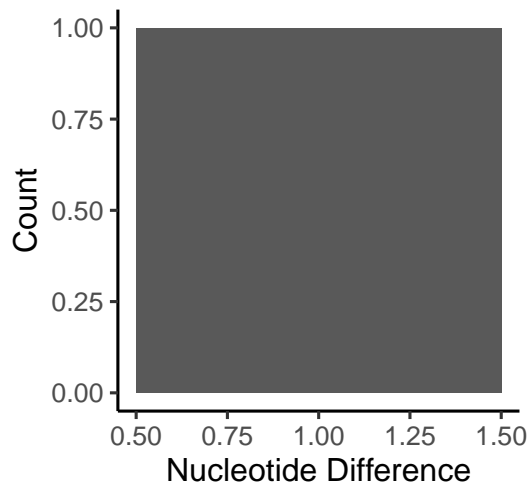
IGHV3–33*06

155 sequences assigned
23 (14.8%) exact matches, in which:
22 unique CDR3
3 unique J



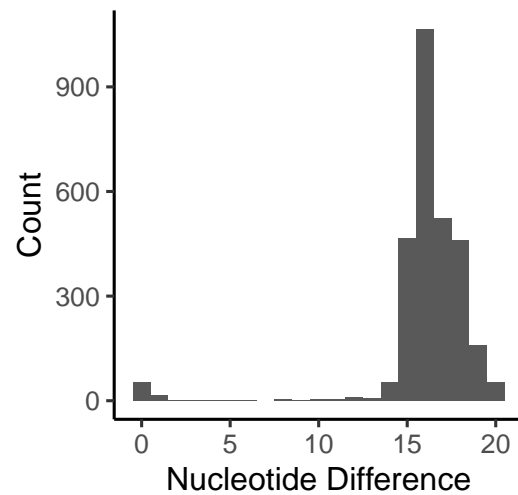
IGHV3–35*02

1 sequences assigned
No exact matches.



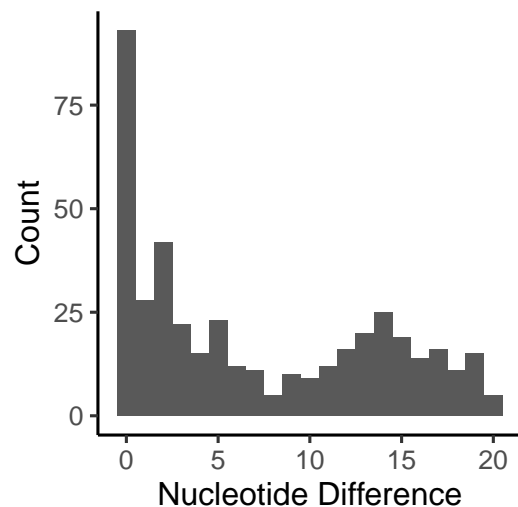
IGHV3–43*01

3136 sequences assigned
54 (1.7%) exact matches, in which:
49 unique CDR3
5 unique J



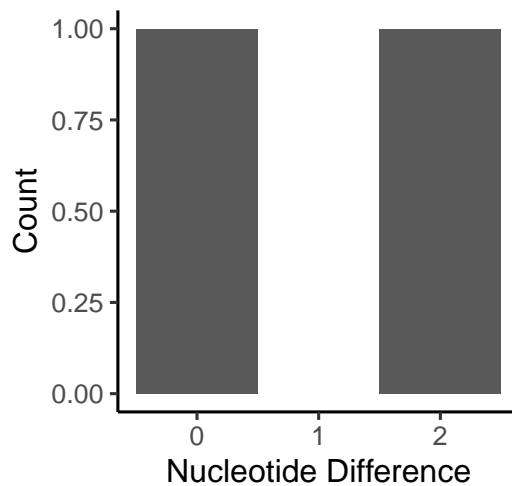
IGHV3–33*08

465 sequences assigned
93 (20%) exact matches, in which:
91 unique CDR3
6 unique J



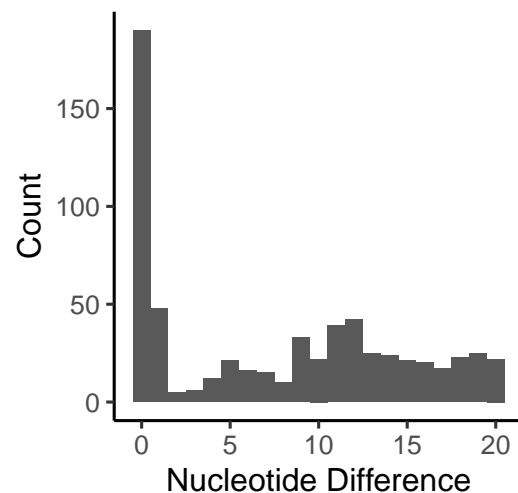
IGHV3–38–3*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



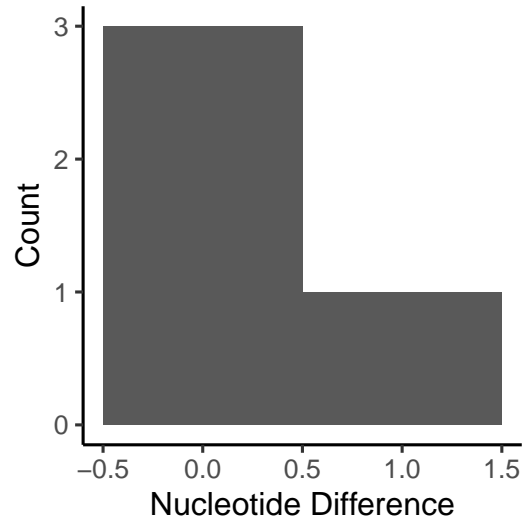
IGHV3–43*02

767 sequences assigned
190 (24.8%) exact matches, in which:
171 unique CDR3
6 unique J



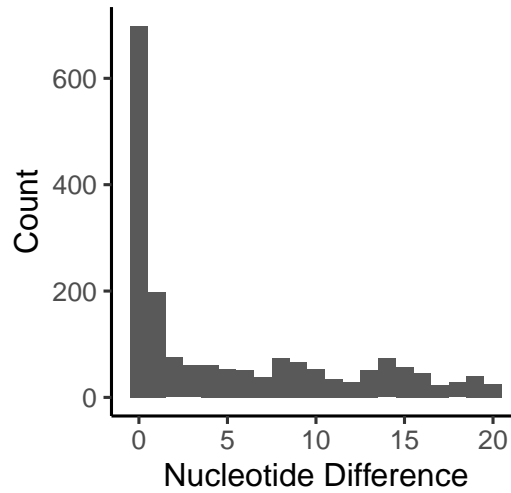
IGHV3-47*01

4 sequences assigned
3 (75%) exact matches, in which:
2 unique CDR3
2 unique J



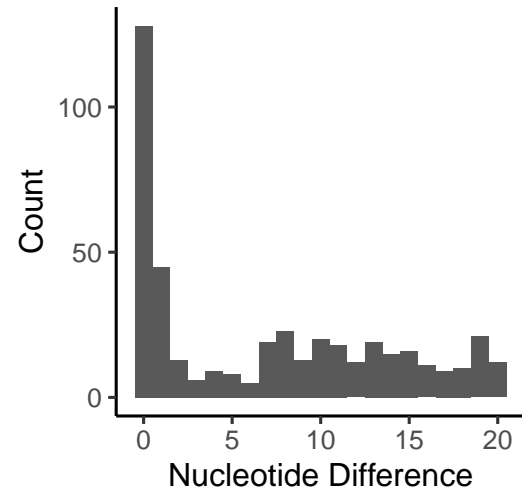
IGHV3-48*02

2426 sequences assigned
699 (28.8%) exact matches, in which:
596 unique CDR3
6 unique J



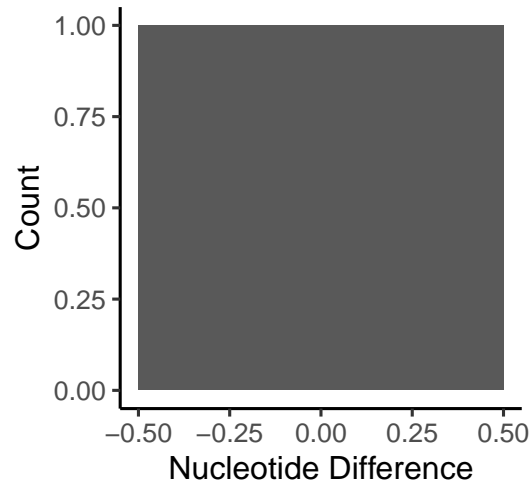
IGHV3-49*04

497 sequences assigned
128 (25.8%) exact matches, in which:
116 unique CDR3
6 unique J



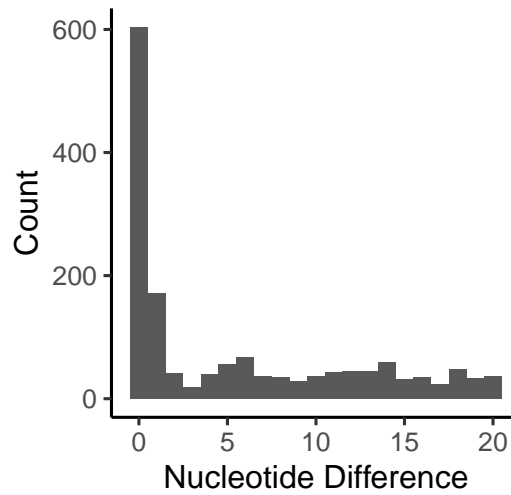
IGHV3-47*02

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



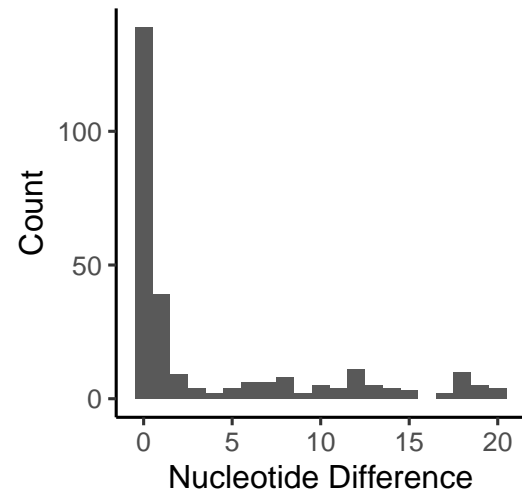
IGHV3-48*03

1947 sequences assigned
604 (31%) exact matches, in which:
525 unique CDR3
6 unique J



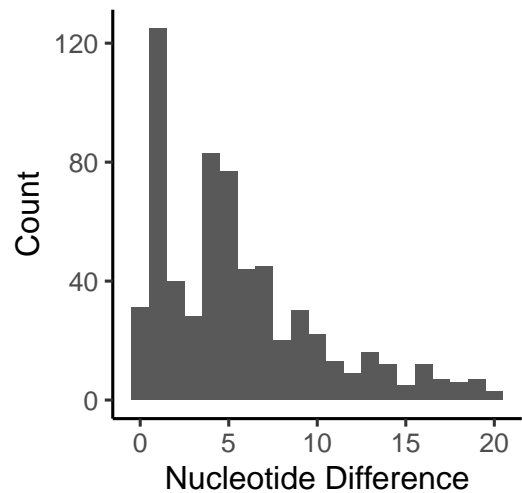
IGHV3-49*03_05

315 sequences assigned
139 (44.1%) exact matches, in which:
122 unique CDR3
5 unique J



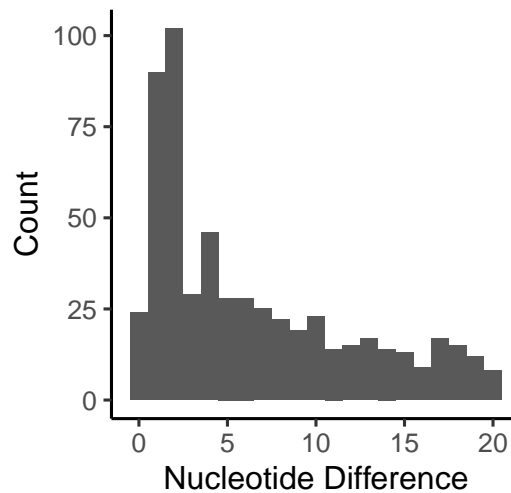
IGHV3-48*01

691 sequences assigned
31 (4.5%) exact matches, in which:
31 unique CDR3
5 unique J



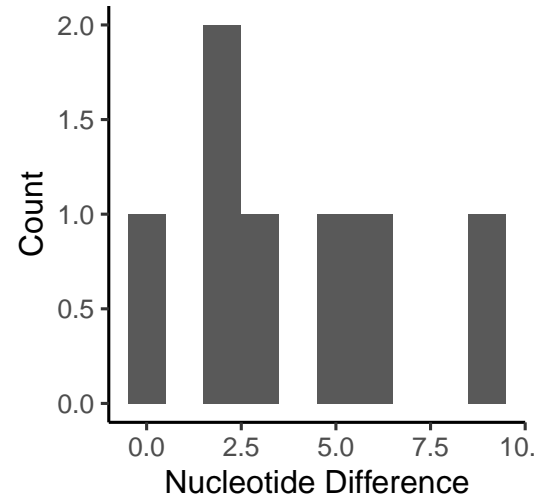
IGHV3-48*04

653 sequences assigned
24 (3.7%) exact matches, in which:
24 unique CDR3
4 unique J



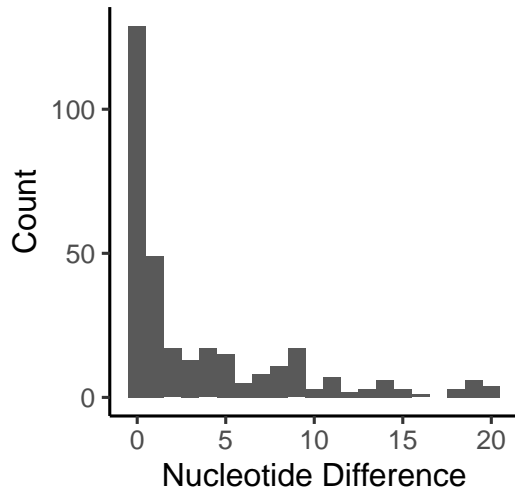
IGHV3-52*01_03

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



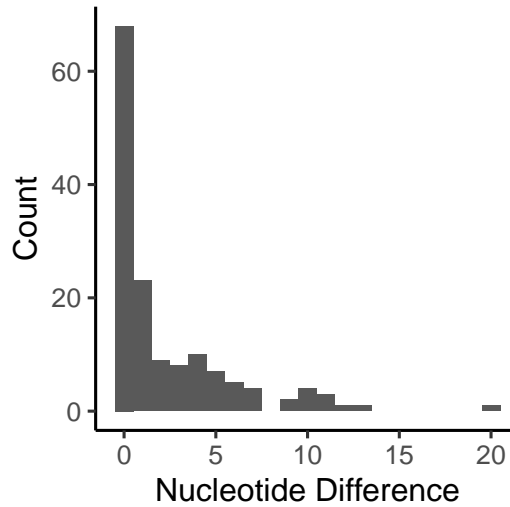
IGHV3-53*04

465 sequences assigned
129 (27.7%) exact matches, in which:
115 unique CDR3
5 unique J



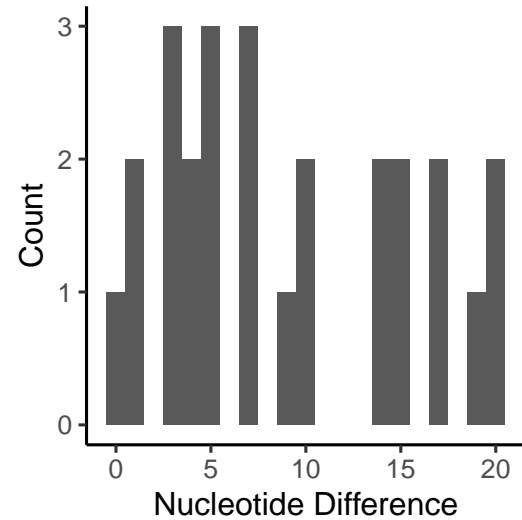
IGHV3-64*01

172 sequences assigned
68 (39.5%) exact matches, in which:
59 unique CDR3
5 unique J



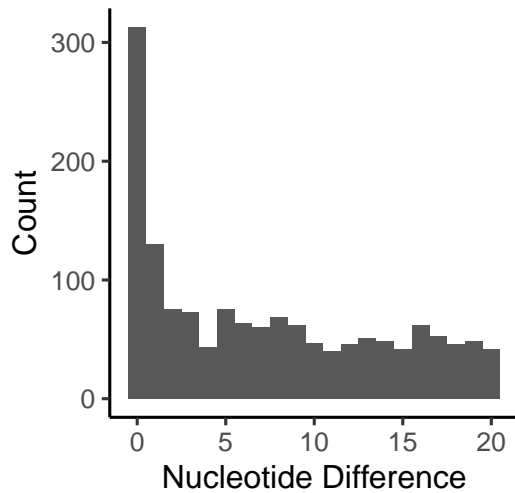
IGHV3-69-1*01

83 sequences assigned
1 (1.2%) exact matches, in which:
1 unique CDR3
1 unique J



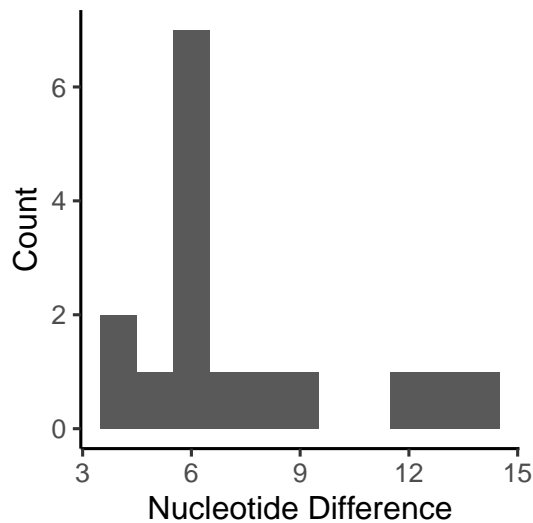
IGHV3-53*01_02

1768 sequences assigned
313 (17.7%) exact matches, in which:
280 unique CDR3
6 unique J



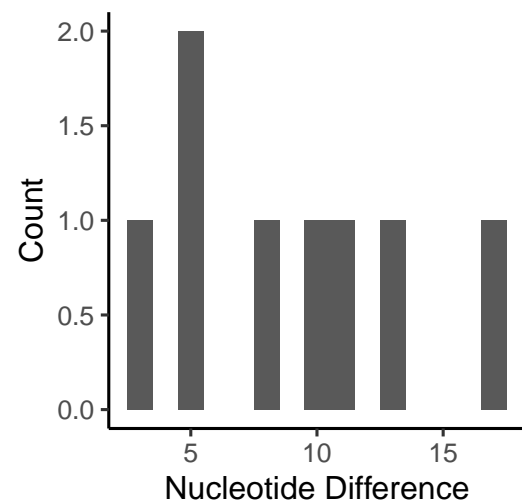
IGHV3-64*04

24 sequences assigned
No exact matches.



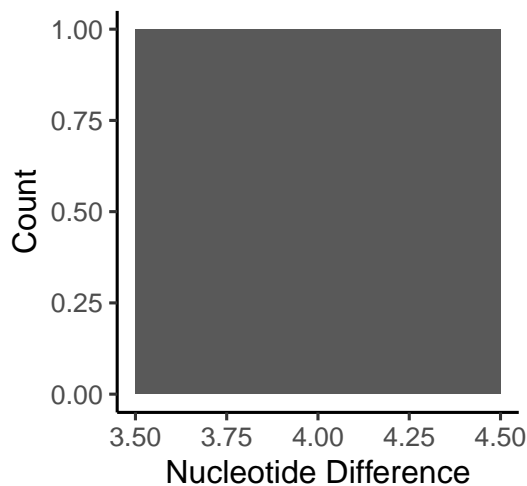
IGHV3-69-1*02

23 sequences assigned
No exact matches.



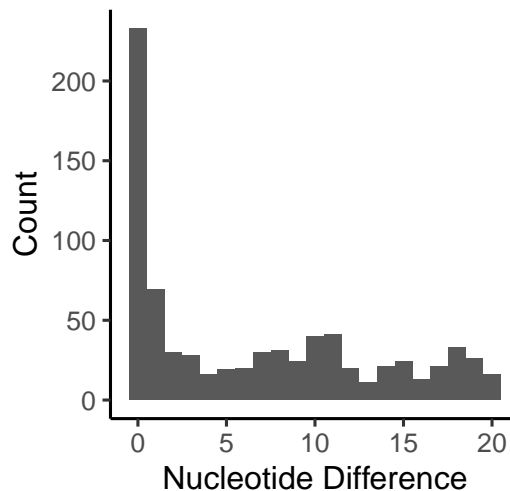
IGHV3-62*04

1 sequences assigned
No exact matches.



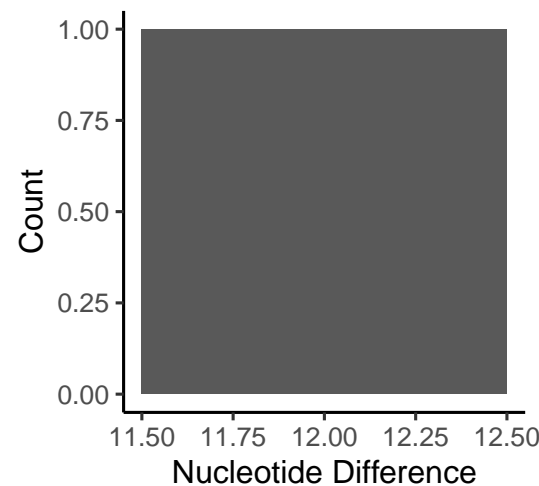
IGHV3-66*02

996 sequences assigned
233 (23.4%) exact matches, in which:
197 unique CDR3
6 unique J



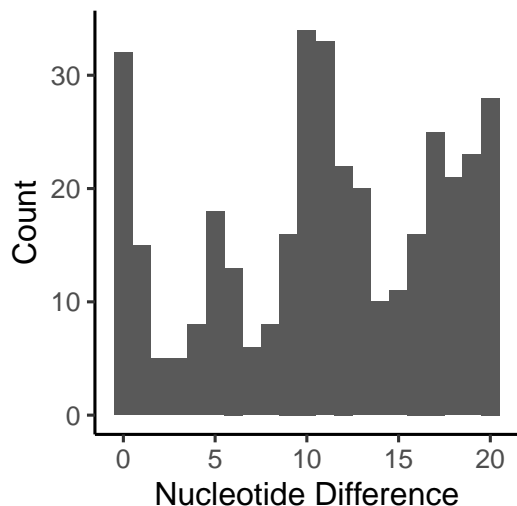
IGHV3-71*01_04

3 sequences assigned
No exact matches.



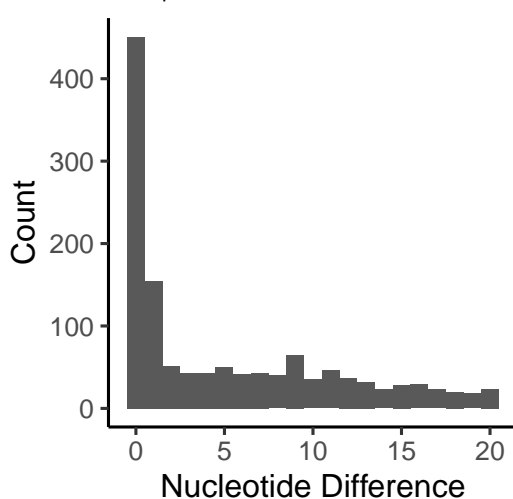
IGHV3-72*01

500 sequences assigned
32 (6.4%) exact matches, in which:
29 unique CDR3
3 unique J



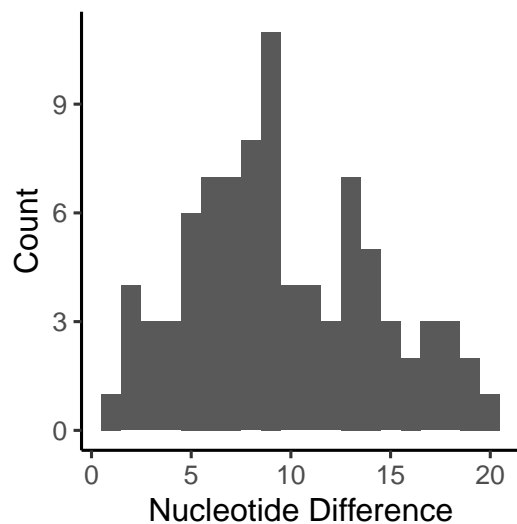
IGHV3-74*01_02

1497 sequences assigned
451 (30.1%) exact matches, in which:
372 unique CDR3
6 unique J



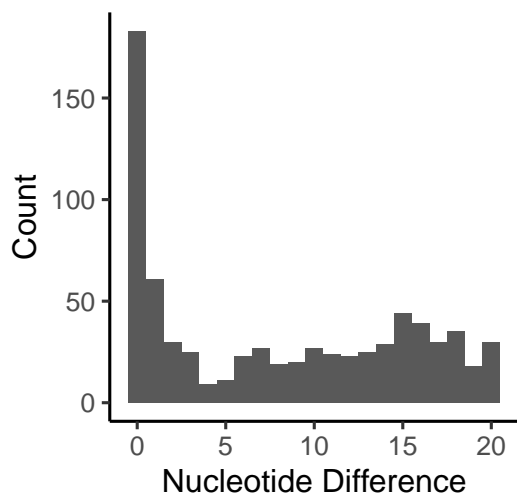
IGHV3-NL1*01

123 sequences assigned
No exact matches.



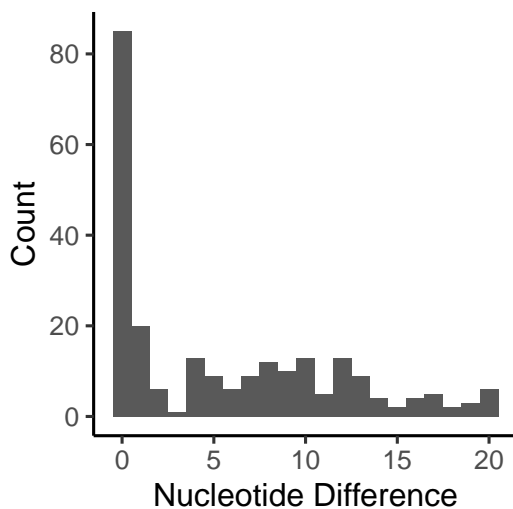
IGHV3-73*01_02

966 sequences assigned
183 (18.9%) exact matches, in which:
154 unique CDR3
4 unique J



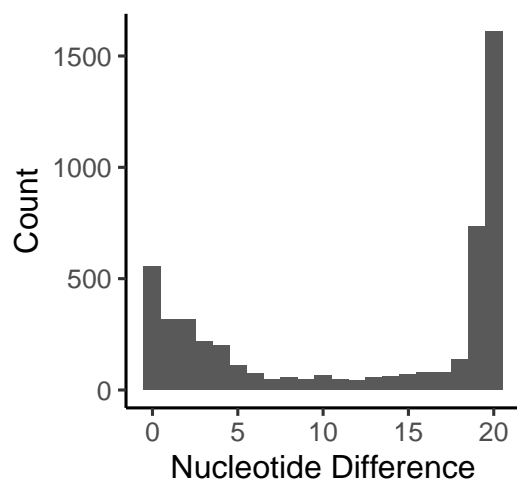
IGHV3-43D*03

265 sequences assigned
85 (32.1%) exact matches, in which:
74 unique CDR3
4 unique J



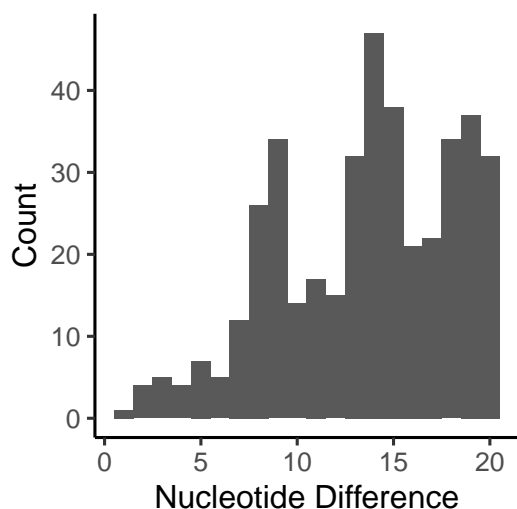
IGHV4-4*02_03

6970 sequences assigned
553 (7.9%) exact matches, in which:
528 unique CDR3
6 unique J



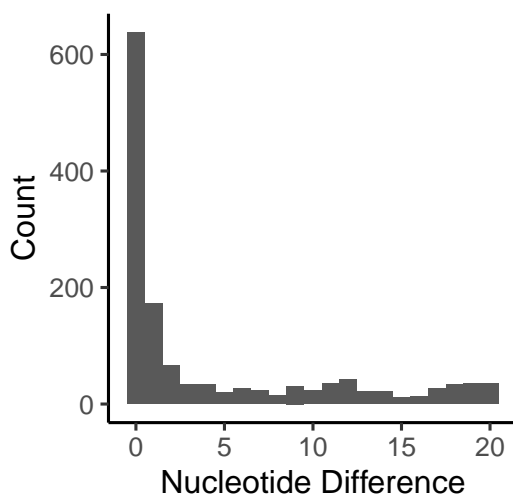
IGHV3-74*03

1199 sequences assigned
No exact matches.



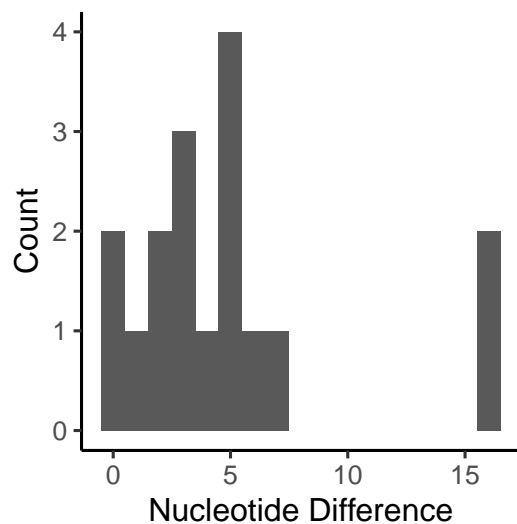
IGHV3-64D*06

1763 sequences assigned
638 (36.2%) exact matches, in which:
506 unique CDR3
6 unique J



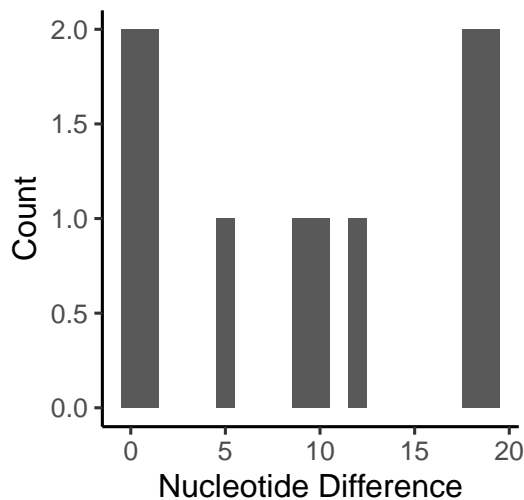
IGHV4-28*03

27 sequences assigned
2 (7.4%) exact matches, in which:
2 unique CDR3
2 unique J



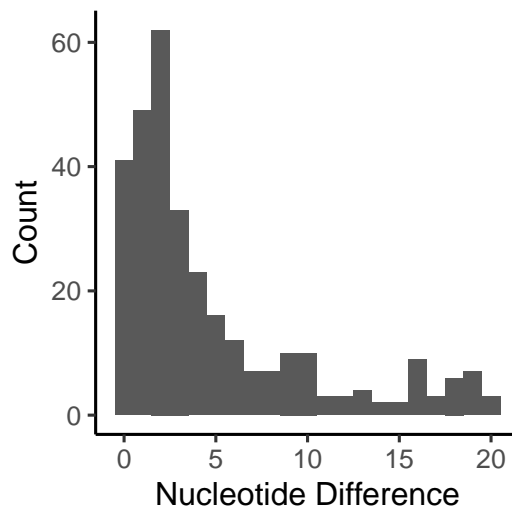
IGHV4-28*01_07

21 sequences assigned
2 (9.5%) exact matches, in which:
2 unique CDR3
1 unique J



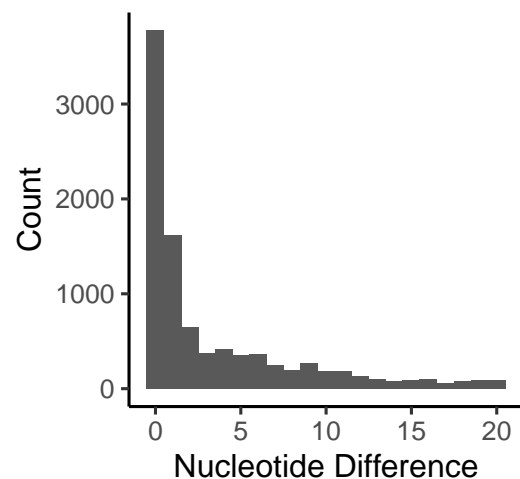
IGHV4-30-2*05

346 sequences assigned
41 (11.8%) exact matches, in which:
41 unique CDR3
4 unique J



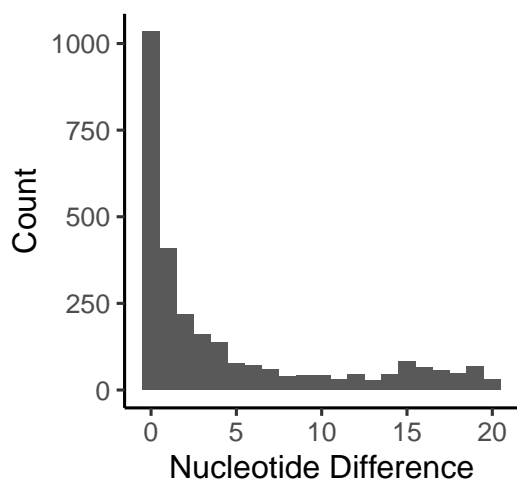
IGHV4-34*01_02

10425 sequences assigned
3776 (36.2%) exact matches, in which:
3551 unique CDR3
6 unique J



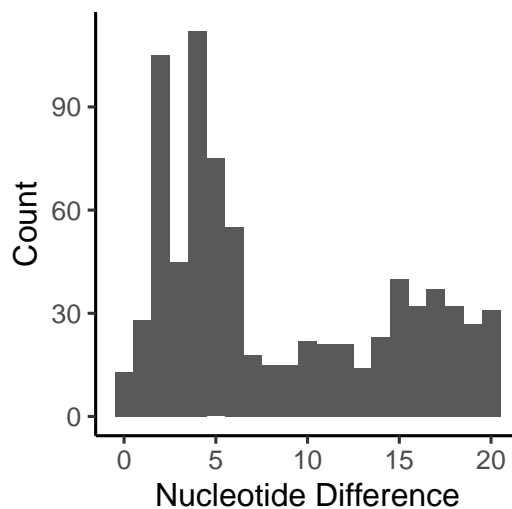
IGHV4-30-2*01

3399 sequences assigned
1034 (30.4%) exact matches, in which:
916 unique CDR3
6 unique J



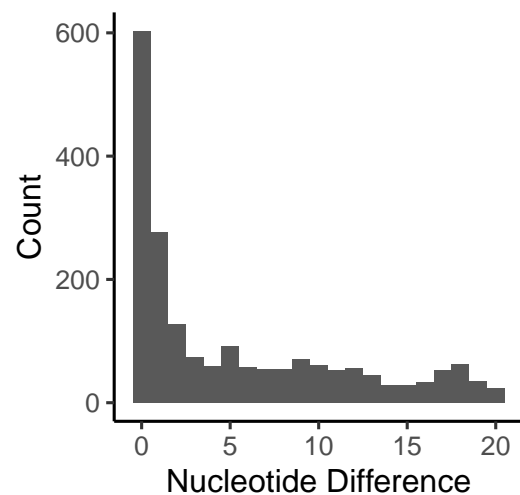
IGHV4-30-4*08

1038 sequences assigned
13 (1.3%) exact matches, in which:
13 unique CDR3
4 unique J



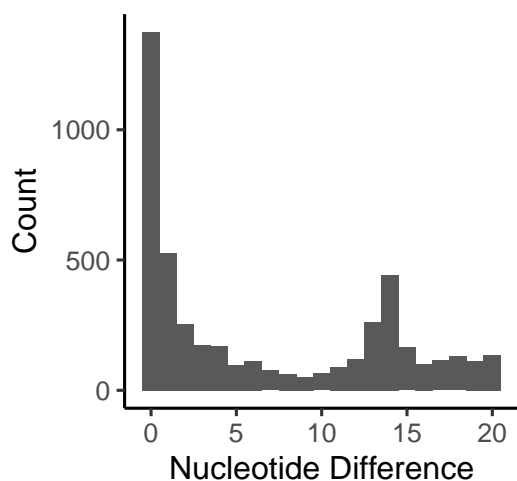
IGHV4-38-2*02

2585 sequences assigned
603 (23.3%) exact matches, in which:
573 unique CDR3
6 unique J



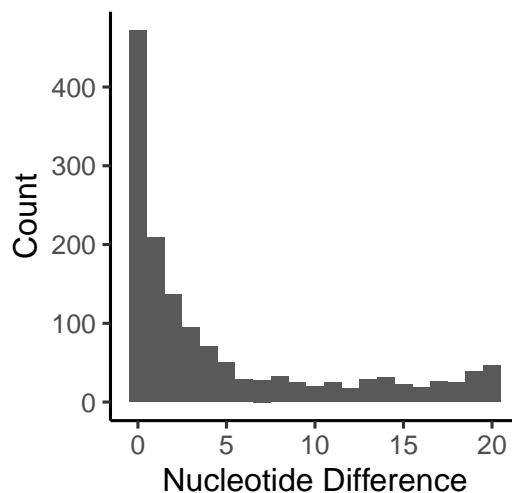
IGHV4-30-4*01

6130 sequences assigned
1375 (22.4%) exact matches, in which:
1300 unique CDR3
6 unique J



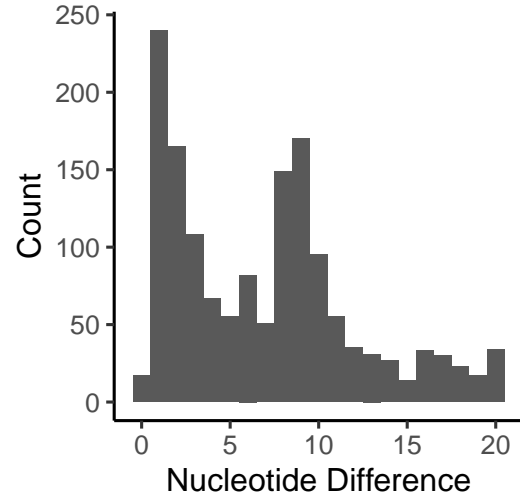
IGHV4-31*02

1873 sequences assigned
472 (25.2%) exact matches, in which:
431 unique CDR3
6 unique J



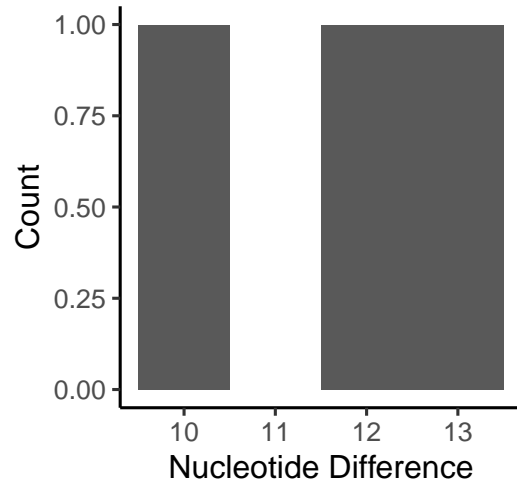
IGHV4-39*07

1704 sequences assigned
17 (1%) exact matches, in which:
17 unique CDR3
4 unique J



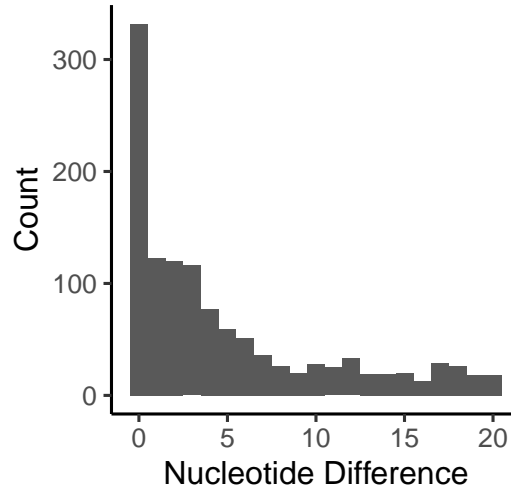
IGHV4-55*09

3 sequences assigned
No exact matches.



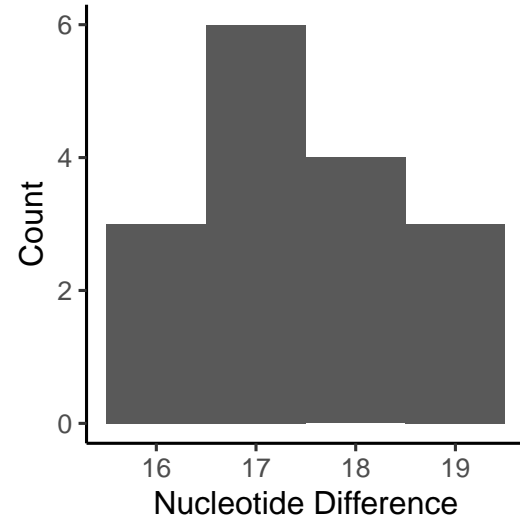
IGHV4-61*01

1515 sequences assigned
332 (21.9%) exact matches, in which:
323 unique CDR3
6 unique J



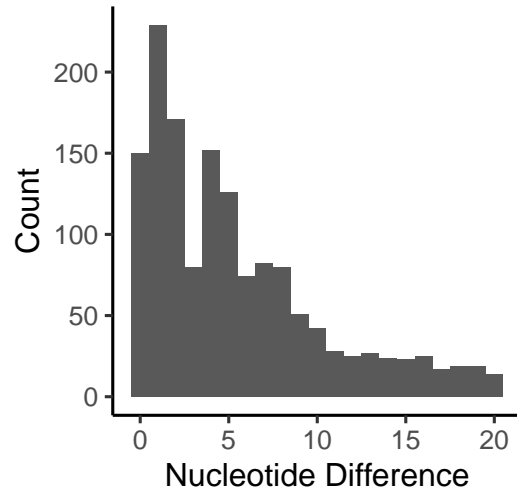
IGHV1/OR15-2*02_03

21 sequences assigned
No exact matches.



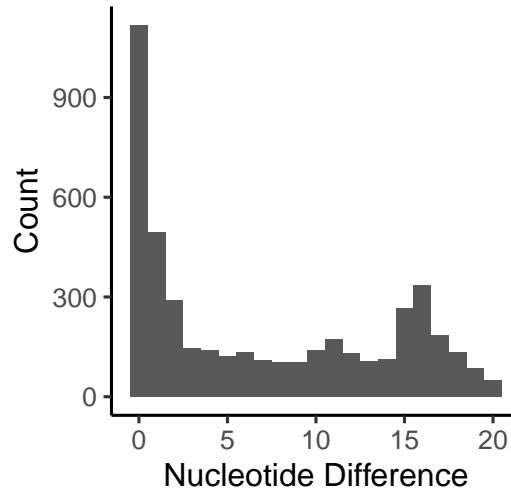
IGHV4-59*08

1651 sequences assigned
150 (9.1%) exact matches, in which:
148 unique CDR3
6 unique J



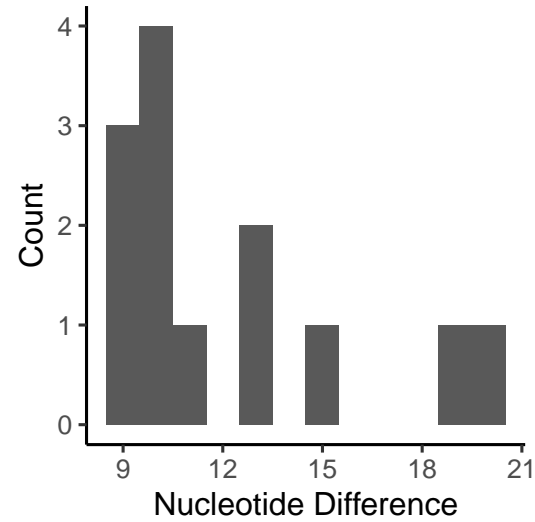
IGHV4-61*02

5314 sequences assigned
1118 (21%) exact matches, in which:
1054 unique CDR3
6 unique J



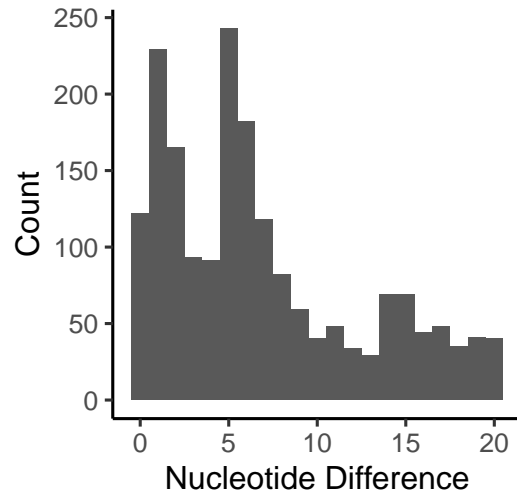
IGHV1/OR15-3*02

14 sequences assigned
No exact matches.



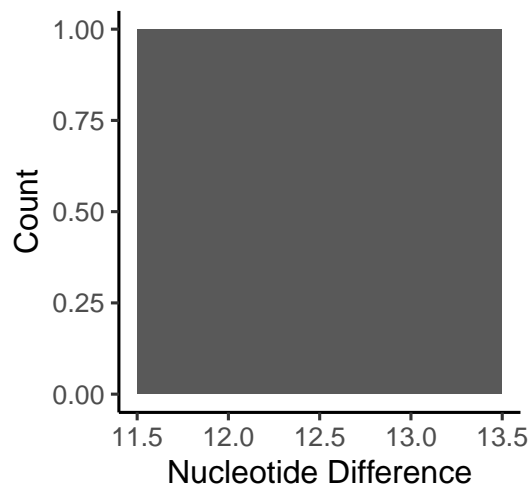
IGHV4-59*12

2499 sequences assigned
122 (4.9%) exact matches, in which:
120 unique CDR3
6 unique J



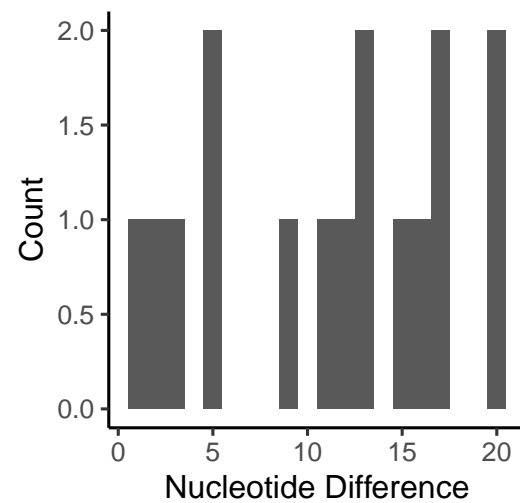
IGHV1/OR15-2*01

3 sequences assigned
No exact matches.



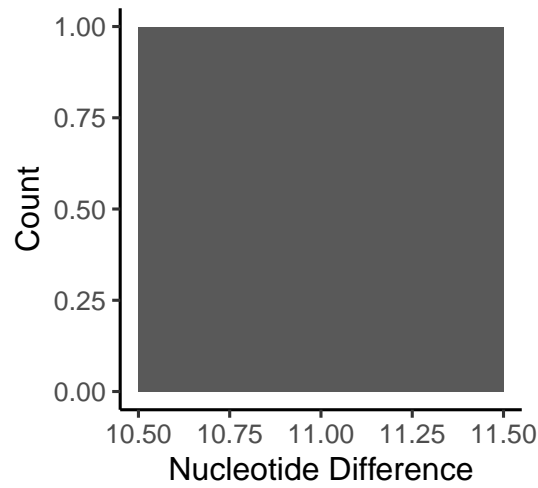
IGHV4/OR15-8*01

33 sequences assigned
No exact matches.



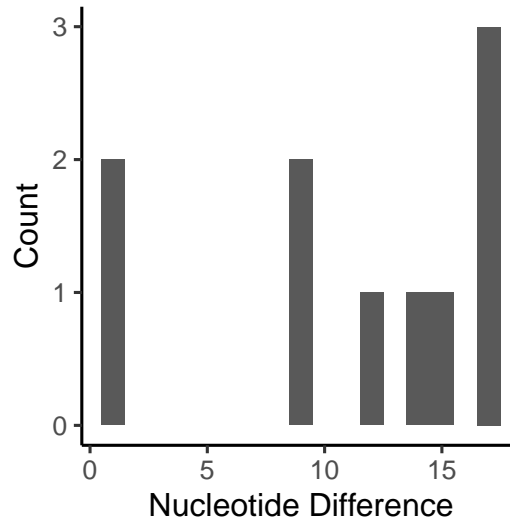
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



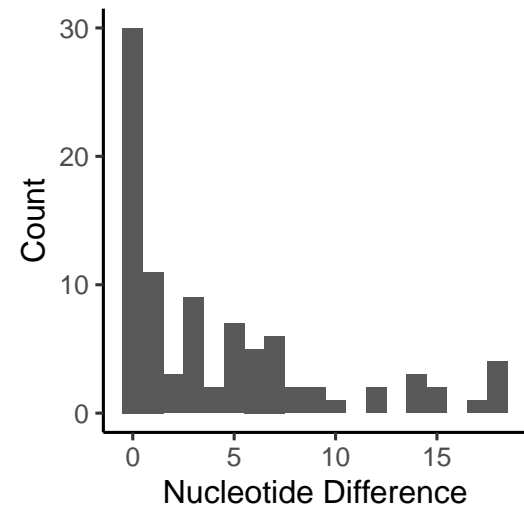
IGHV5-51*06

11 sequences assigned
No exact matches.



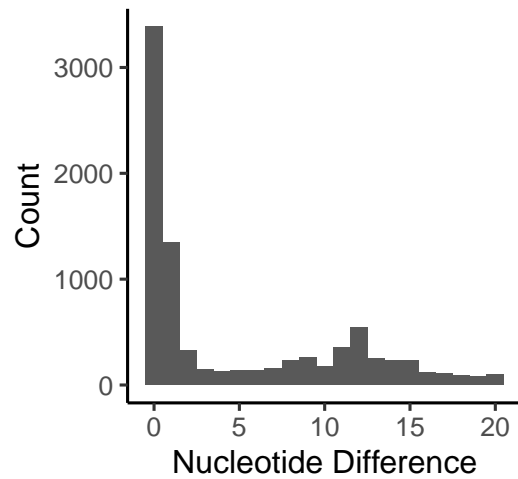
IGHV6-1*01_02_A315G

92 sequences assigned
30 (32.6%) exact matches, in which:
30 unique CDR3
5 unique J



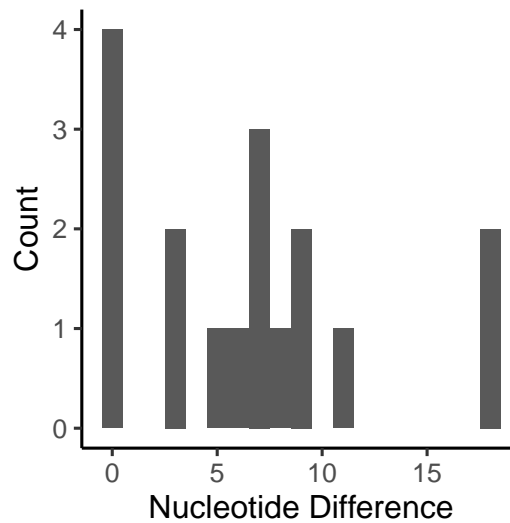
IGHV5-10-1*01_03

9030 sequences assigned
3385 (37.5%) exact matches, in which:
2812 unique CDR3
6 unique J



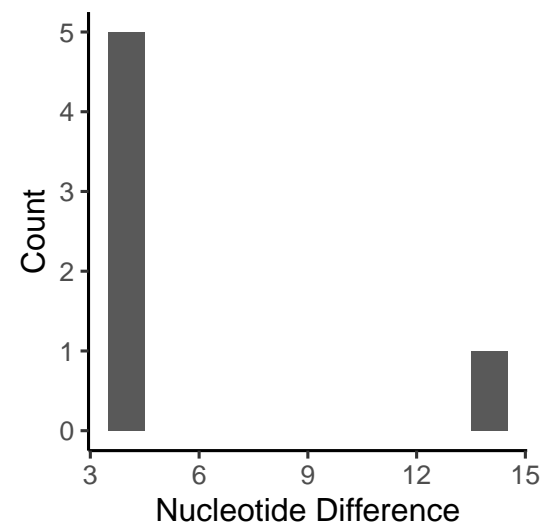
IGHV5-51*07

21 sequences assigned
4 (19%) exact matches, in which:
4 unique CDR3
3 unique J



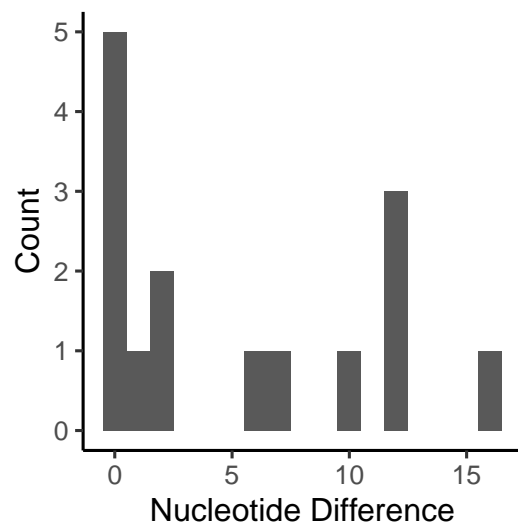
IGHV3/OR16-8*01

10 sequences assigned
No exact matches.



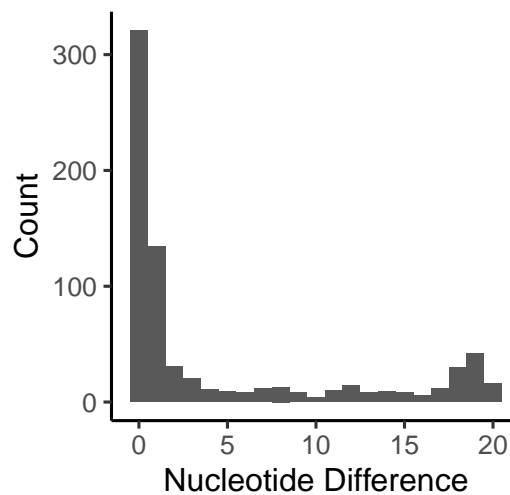
IGHV5-51*04

16 sequences assigned
5 (31.2%) exact matches, in which:
5 unique CDR3
4 unique J



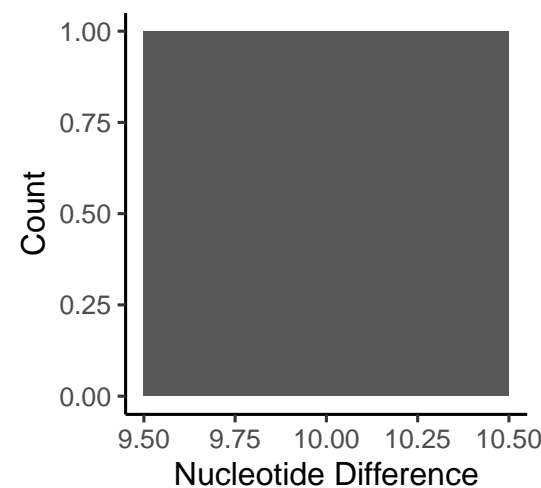
IGHV6-1*01_02

793 sequences assigned
321 (40.5%) exact matches, in which:
301 unique CDR3
6 unique J



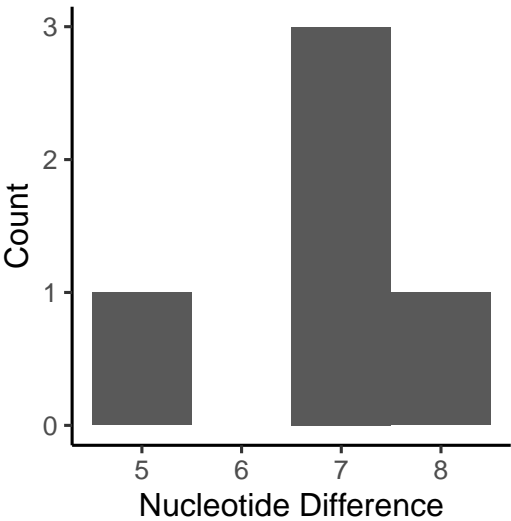
IGHV3/OR16-9*01

1 sequences assigned
No exact matches.



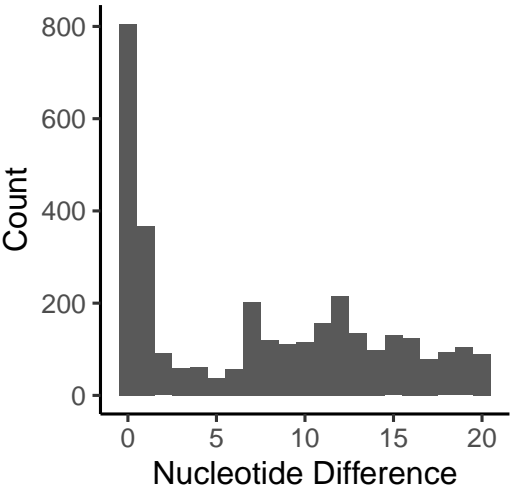
IGHV3/OR16-10*01_03

6 sequences assigned
No exact matches.



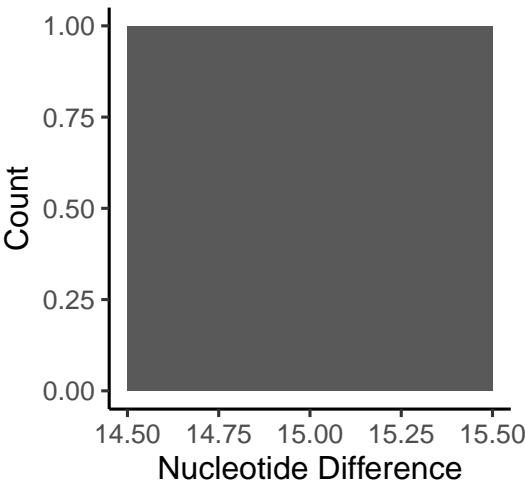
IGHV7-4-1*02

3886 sequences assigned
806 (20.7%) exact matches, in which:
765 unique CDR3
6 unique J



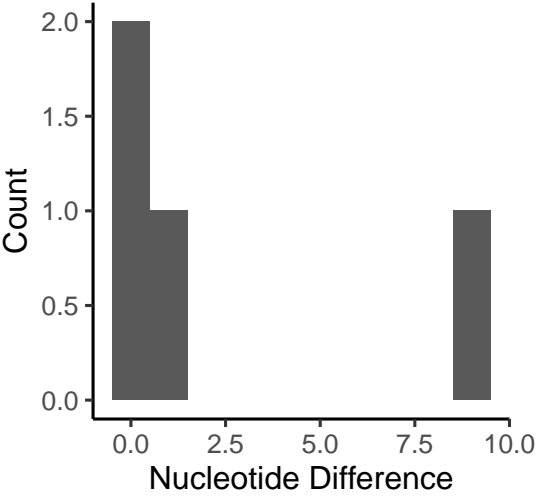
IGHV3/OR16-13*01

1 sequences assigned
No exact matches.



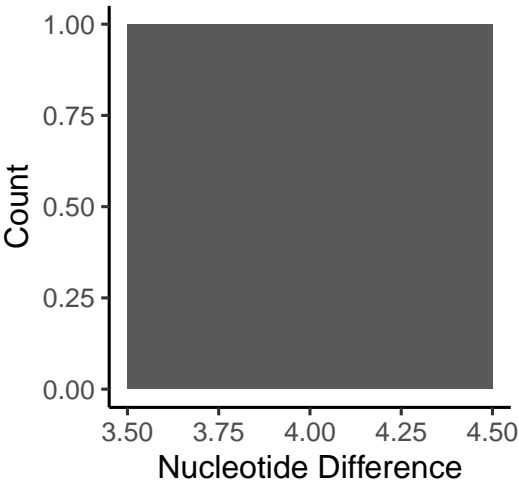
IGHV7-81*01

4 sequences assigned
2 (50%) exact matches, in which:
2 unique CDR3
2 unique J



IGHV3/OR16-17*01

1 sequences assigned
No exact matches.



IGHV6-1*01_02_A315G

