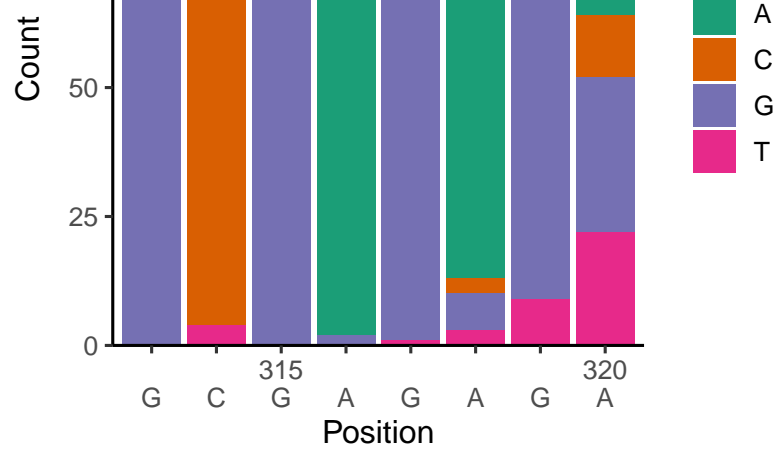
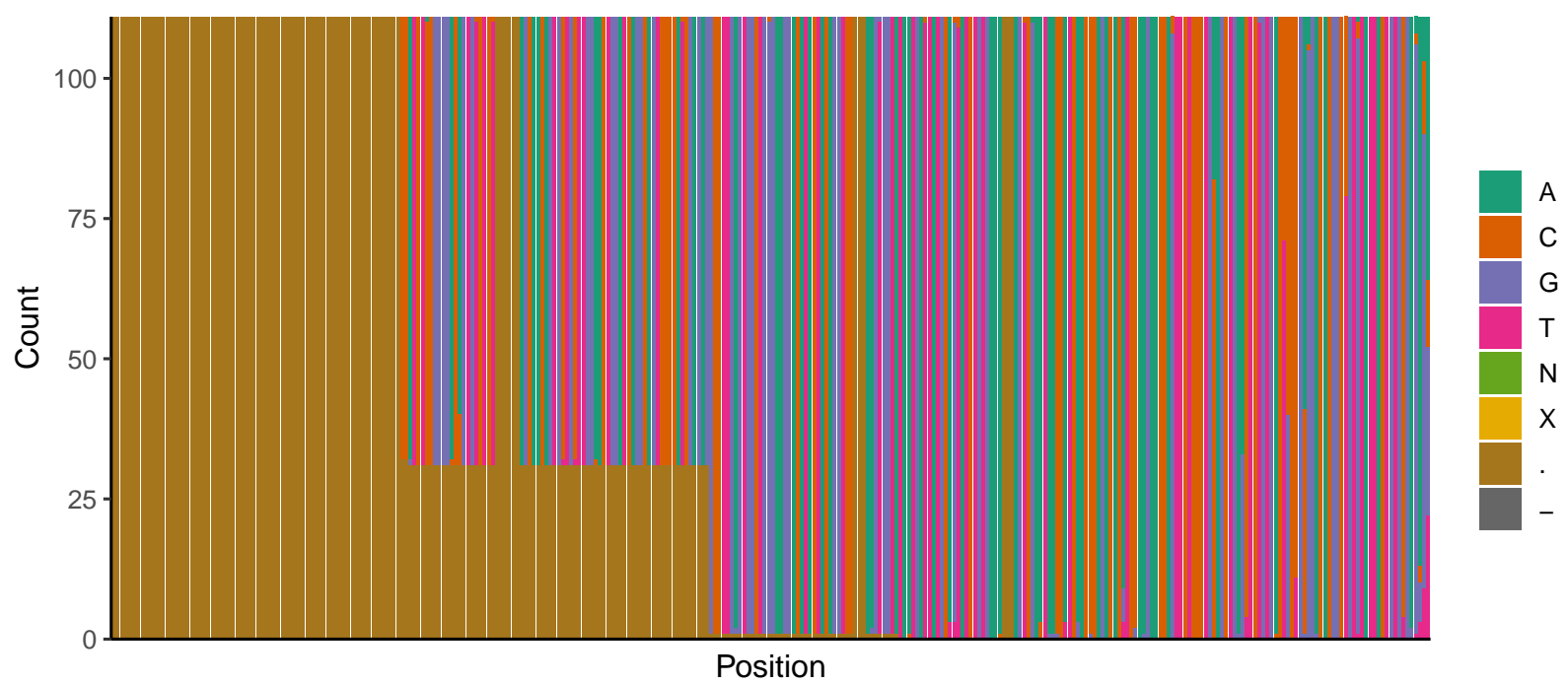


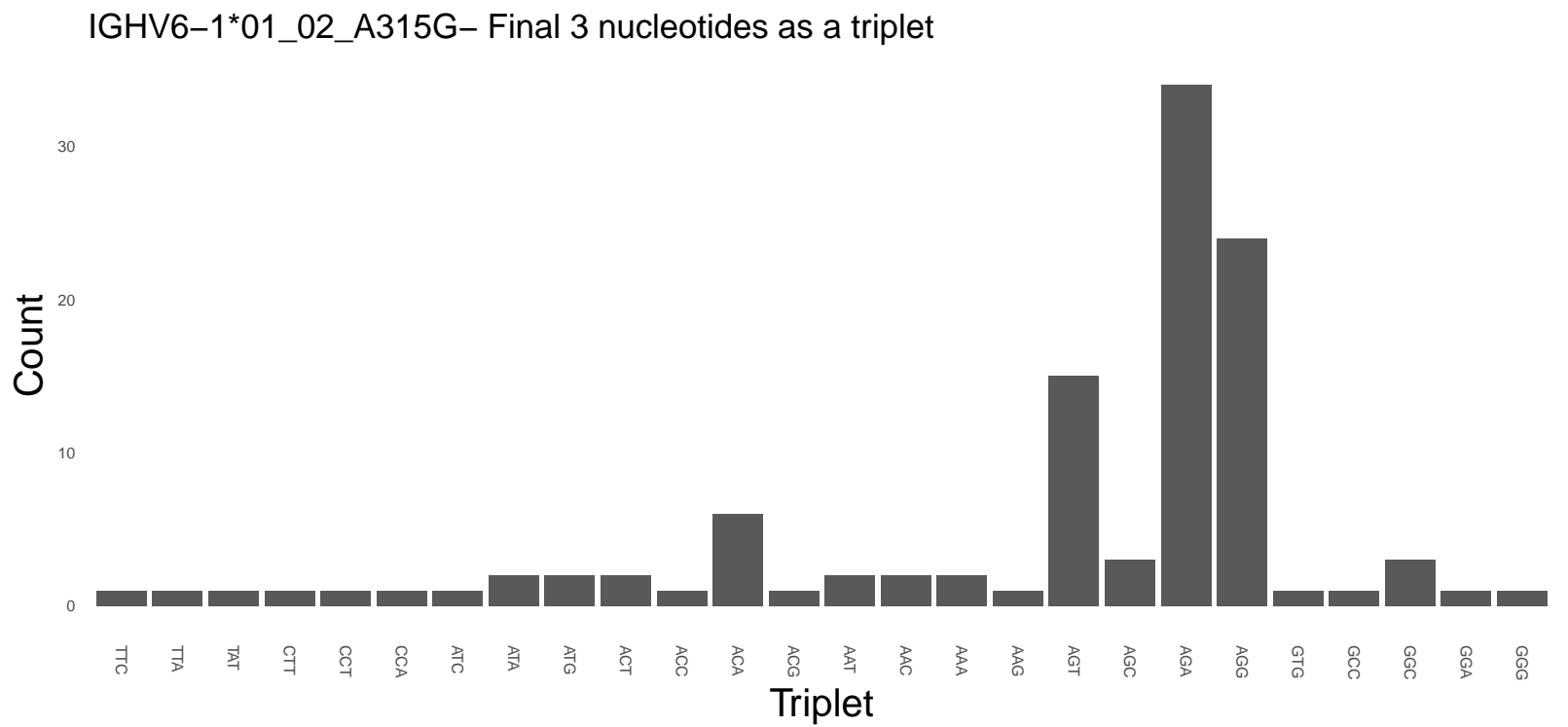
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

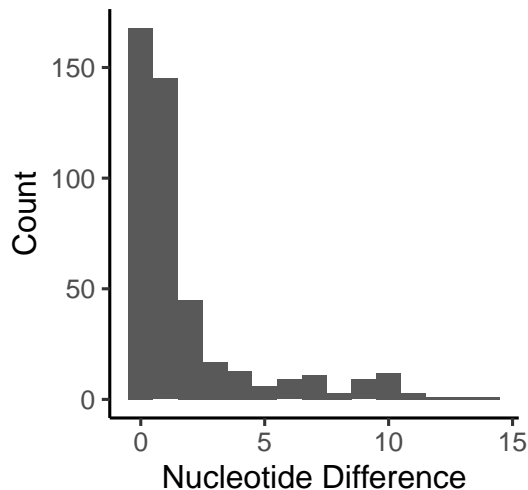


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



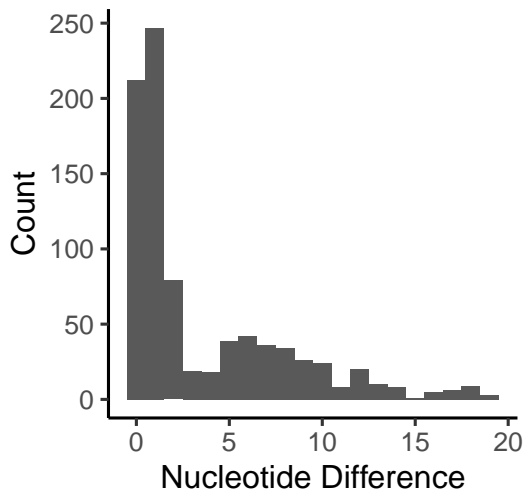
IGHV1-2*04

445 sequences assigned
168 (37.8%) exact matches, in which:
153 unique CDR3
5 unique J



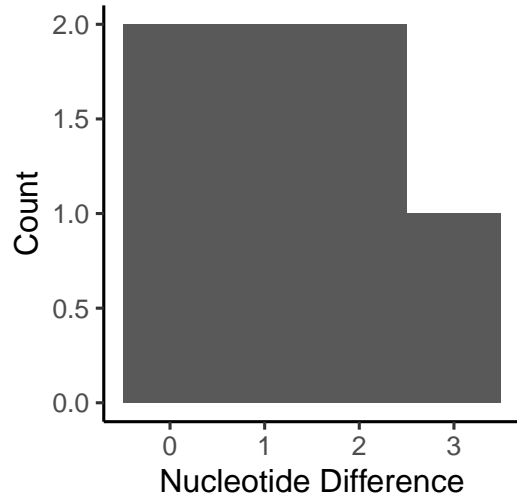
IGHV1-8*01

850 sequences assigned
212 (24.9%) exact matches, in which:
204 unique CDR3
6 unique J



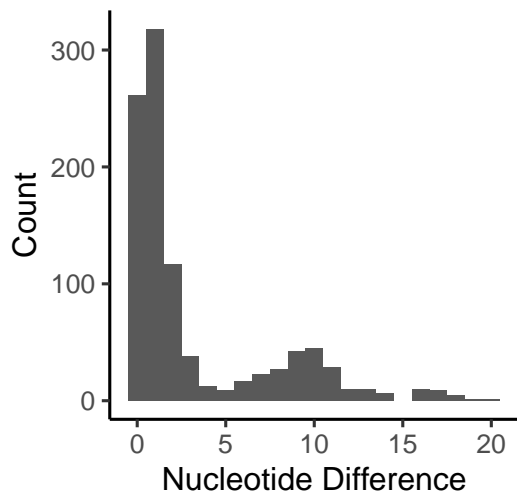
IGHV1-38-4*01

7 sequences assigned
2 (28.6%) exact matches, in which:
1 unique CDR3
1 unique J



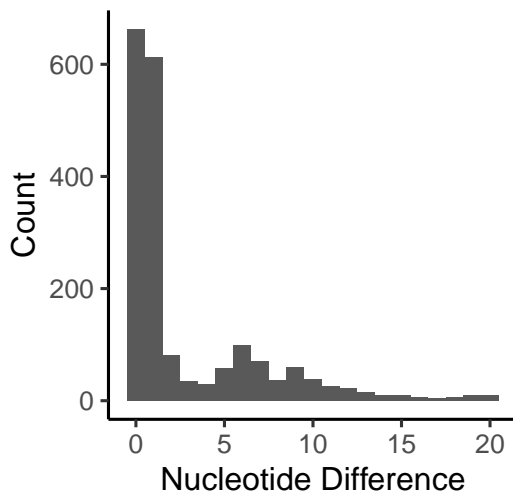
IGHV1-2*06

1008 sequences assigned
261 (25.9%) exact matches, in which:
240 unique CDR3
6 unique J



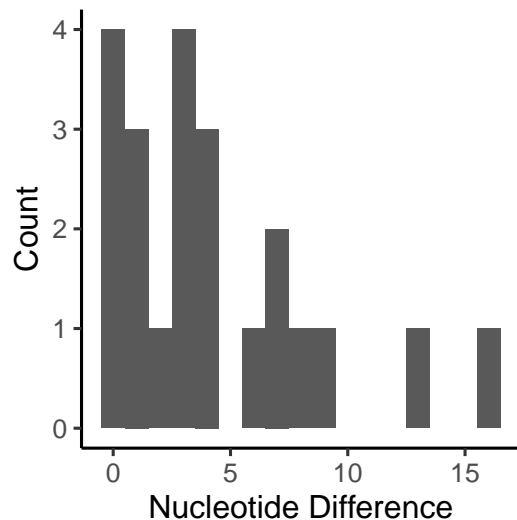
IGHV1-18*01

1950 sequences assigned
663 (34%) exact matches, in which:
595 unique CDR3
6 unique J



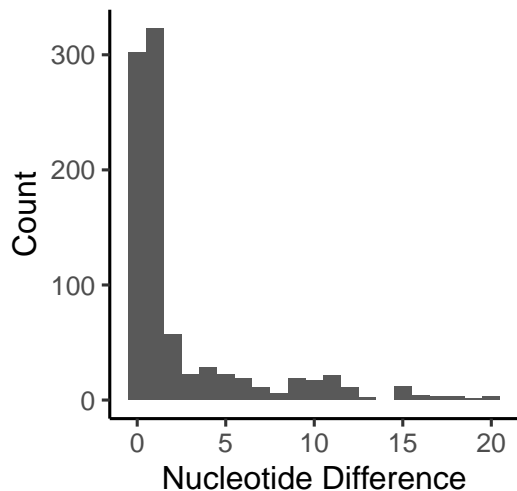
IGHV1-45*02

22 sequences assigned
4 (18.2%) exact matches, in which:
3 unique CDR3
1 unique J



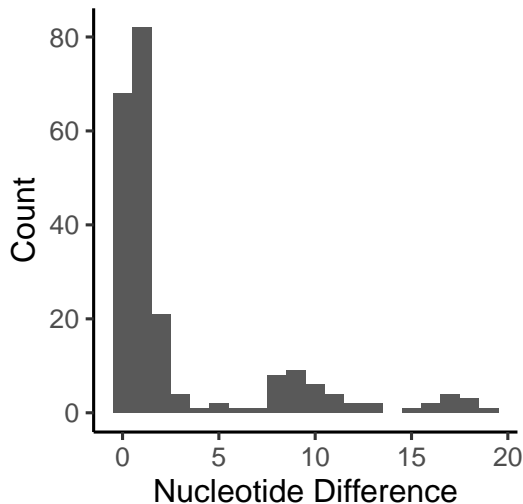
IGHV1-3*01_05

898 sequences assigned
302 (33.6%) exact matches, in which:
268 unique CDR3
6 unique J



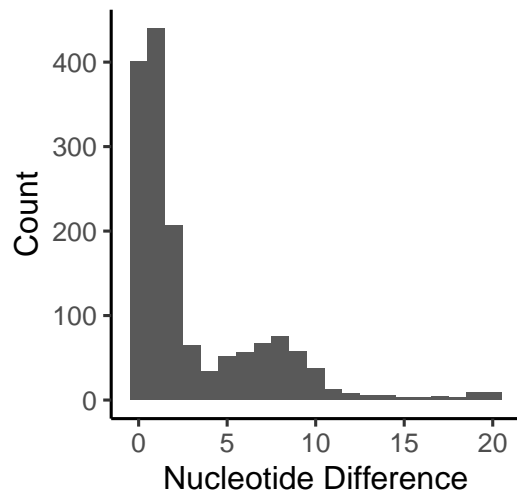
IGHV1-24*01

223 sequences assigned
68 (30.5%) exact matches, in which:
67 unique CDR3
4 unique J



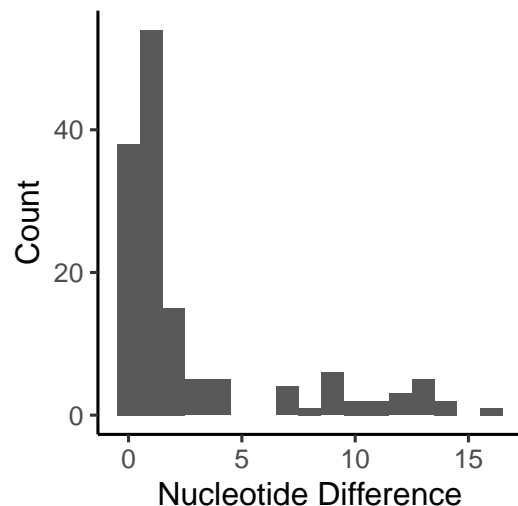
IGHV1-46*01

1564 sequences assigned
401 (25.6%) exact matches, in which:
368 unique CDR3
6 unique J



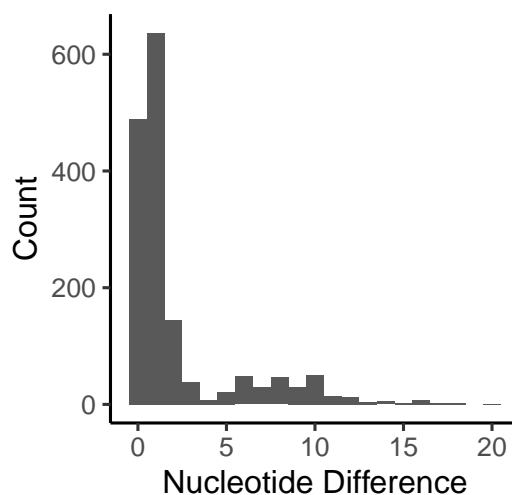
IGHV1-58*02

144 sequences assigned
38 (26.4%) exact matches, in which:
36 unique CDR3
4 unique J



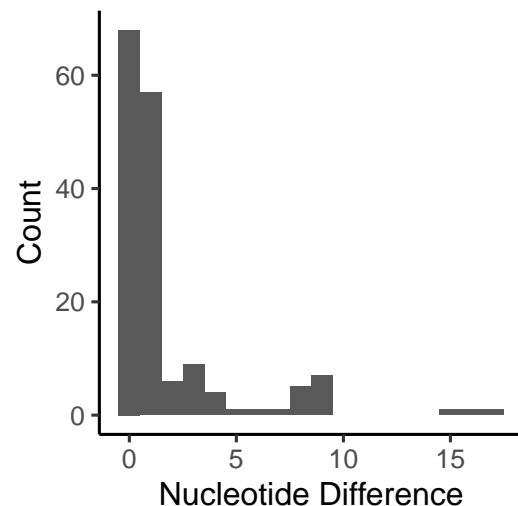
IGHV1-69*01_12_13

1602 sequences assigned
489 (30.5%) exact matches, in which:
457 unique CDR3
6 unique J



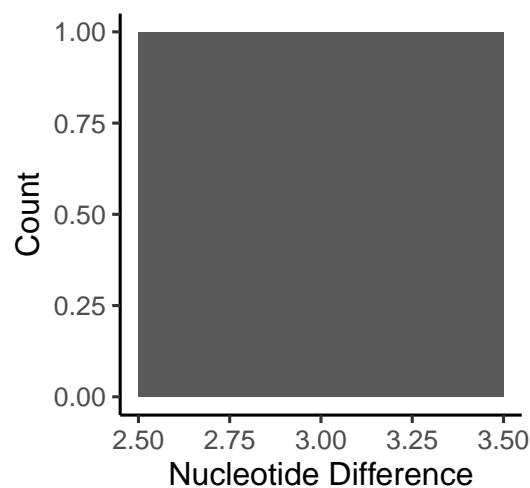
IGHV2-26*01

164 sequences assigned
68 (41.5%) exact matches, in which:
54 unique CDR3
4 unique J



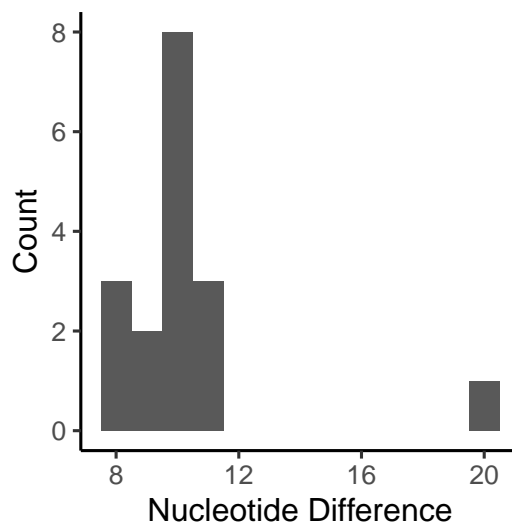
IGHV1-68*01

1 sequences assigned
No exact matches.



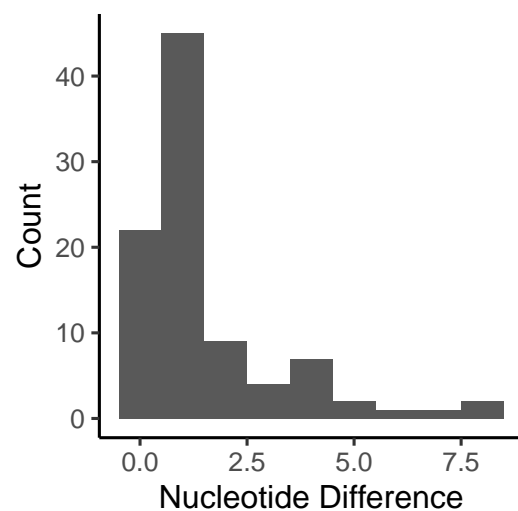
IGHV1-NL1*01

17 sequences assigned
No exact matches.



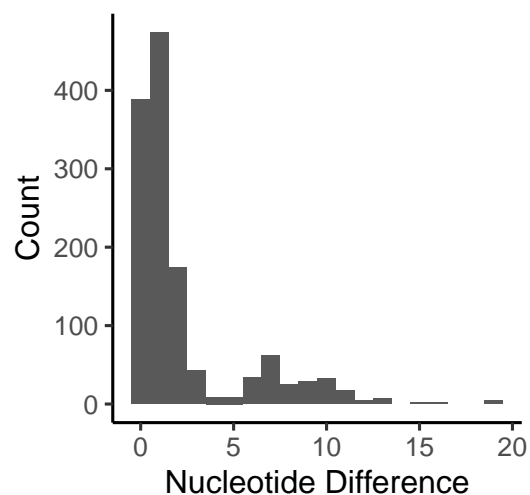
IGHV2-70*01

93 sequences assigned
22 (23.7%) exact matches, in which:
19 unique CDR3
3 unique J



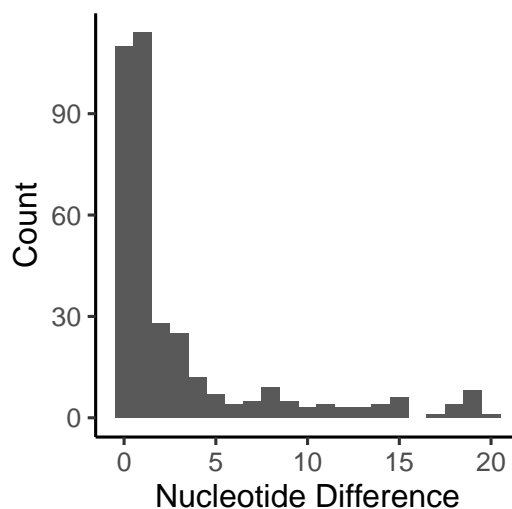
IGHV1-69*10

1325 sequences assigned
388 (29.3%) exact matches, in which:
368 unique CDR3
6 unique J



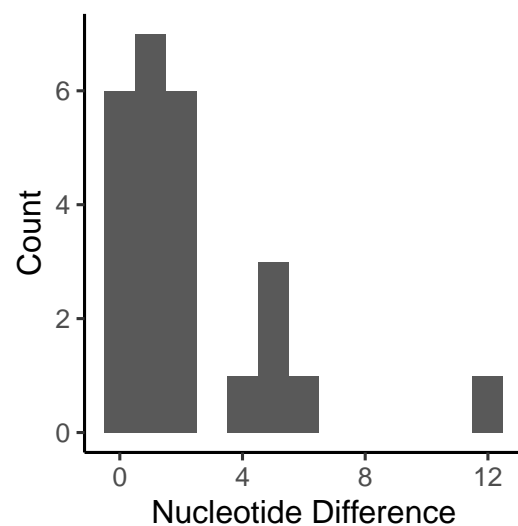
IGHV2-5*02

361 sequences assigned
110 (30.5%) exact matches, in which:
92 unique CDR3
6 unique J



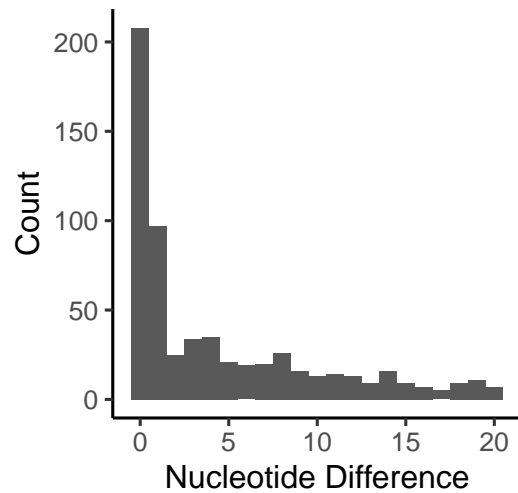
IGHV2-70*12

25 sequences assigned
6 (24%) exact matches, in which:
6 unique CDR3
3 unique J



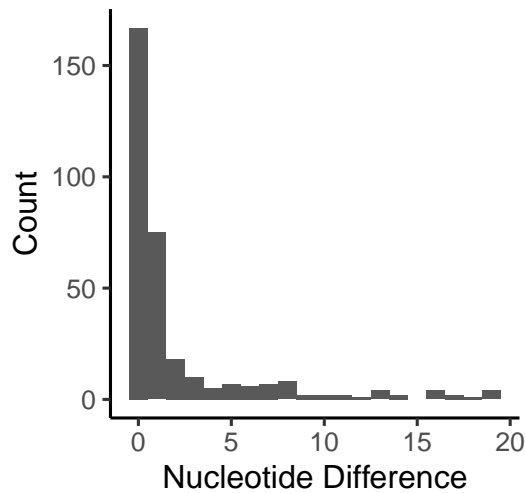
IGHV3-7*01

654 sequences assigned
208 (31.8%) exact matches, in which:
167 unique CDR3
5 unique J



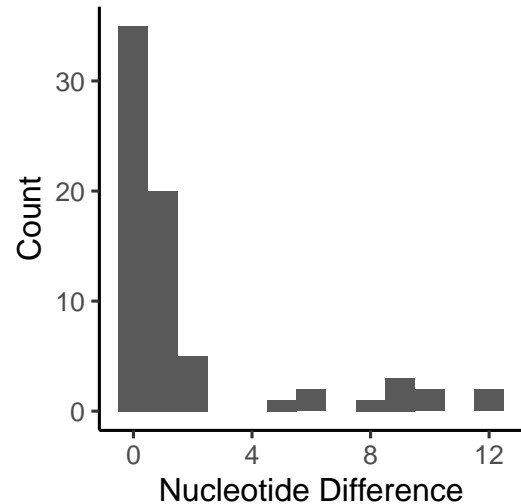
IGHV3-11*01

333 sequences assigned
167 (50.2%) exact matches, in which:
125 unique CDR3
6 unique J



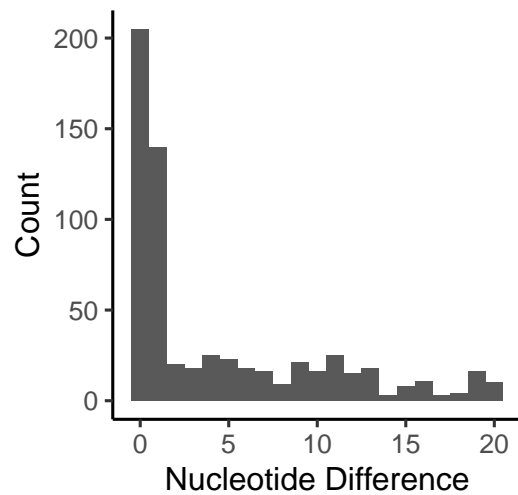
IGHV3-13*01

71 sequences assigned
35 (49.3%) exact matches, in which:
21 unique CDR3
4 unique J



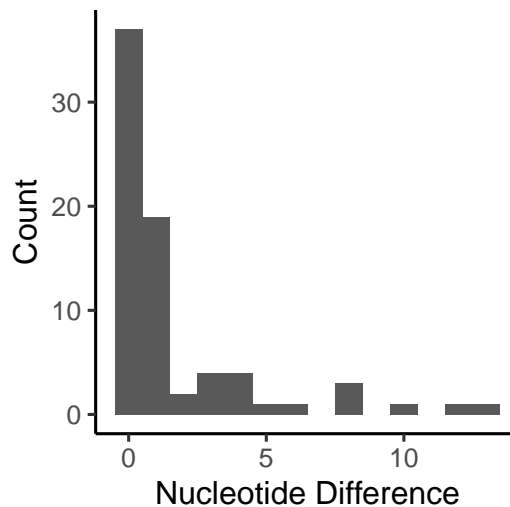
IGHV3-7*03

699 sequences assigned
205 (29.3%) exact matches, in which:
148 unique CDR3
5 unique J



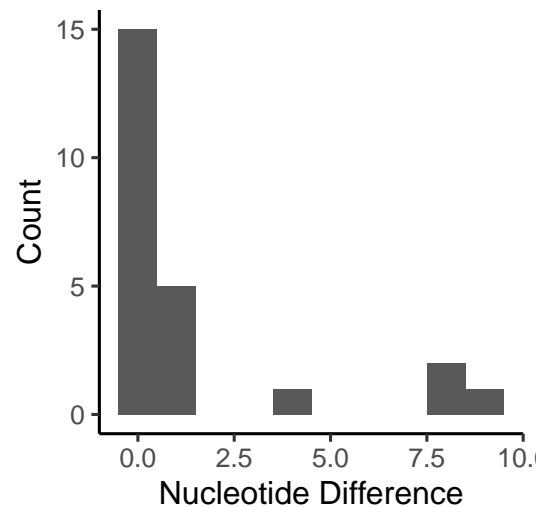
IGHV3-11*04

74 sequences assigned
37 (50%) exact matches, in which:
36 unique CDR3
5 unique J



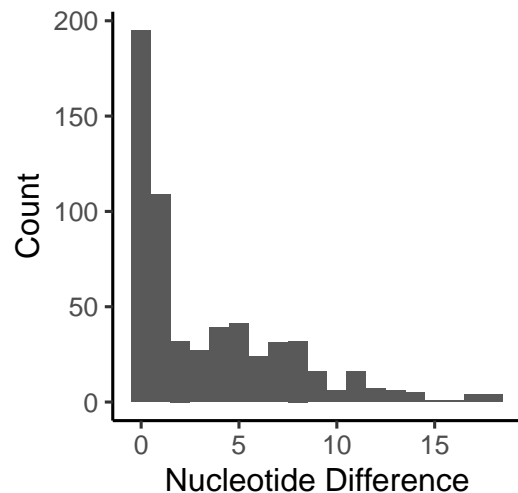
IGHV3-13*05

24 sequences assigned
15 (62.5%) exact matches, in which:
13 unique CDR3
4 unique J



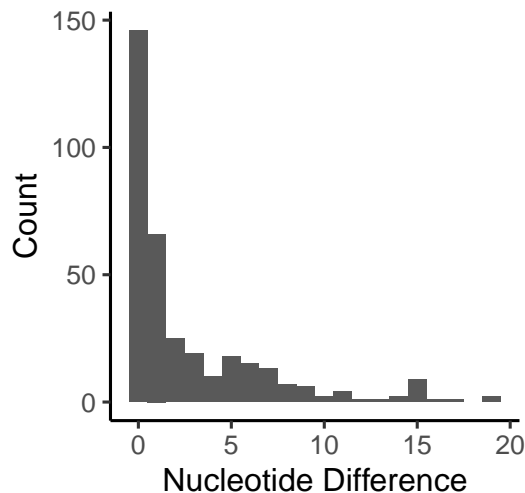
IGHV3-9*01

605 sequences assigned
195 (32.2%) exact matches, in which:
129 unique CDR3
4 unique J



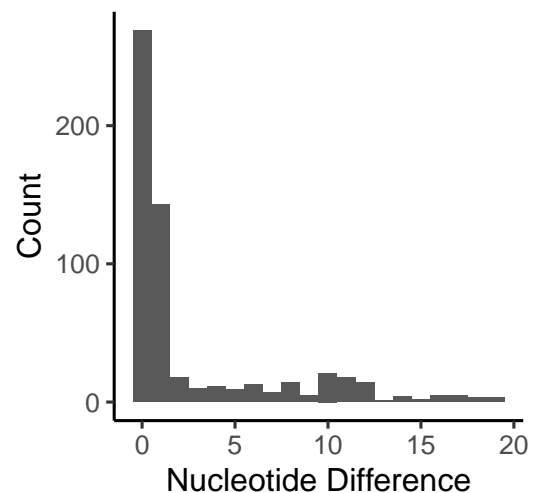
IGHV3-11*06

352 sequences assigned
146 (41.5%) exact matches, in which:
104 unique CDR3
5 unique J



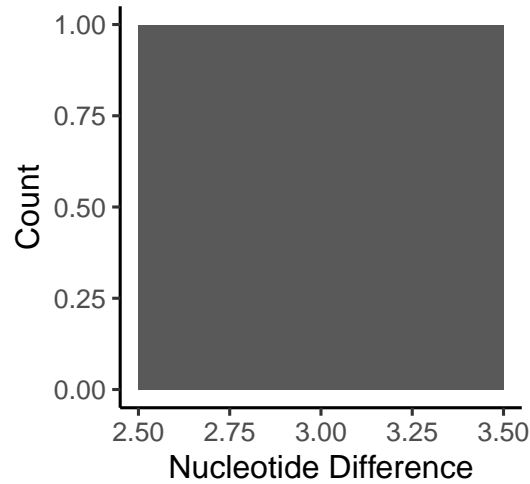
IGHV3-15*01_02

615 sequences assigned
269 (43.7%) exact matches, in which:
168 unique CDR3
6 unique J



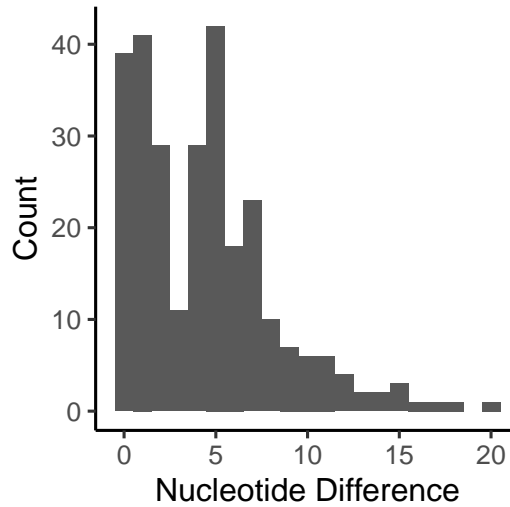
IGHV3-19*01

1 sequences assigned
No exact matches.



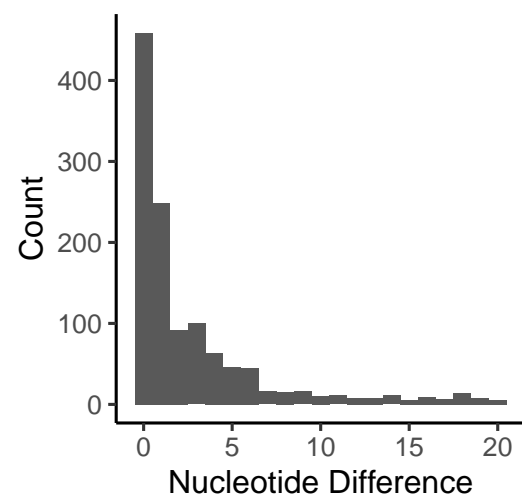
IGHV3-21*04

276 sequences assigned
39 (14.1%) exact matches, in which:
39 unique CDR3
5 unique J



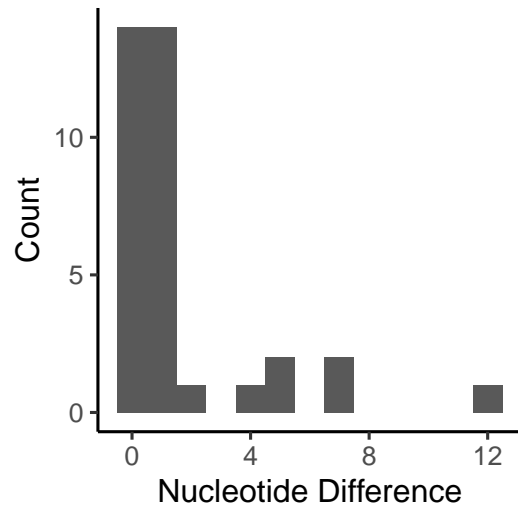
IGHV3-30-3*01

1223 sequences assigned
459 (37.5%) exact matches, in which:
319 unique CDR3
6 unique J



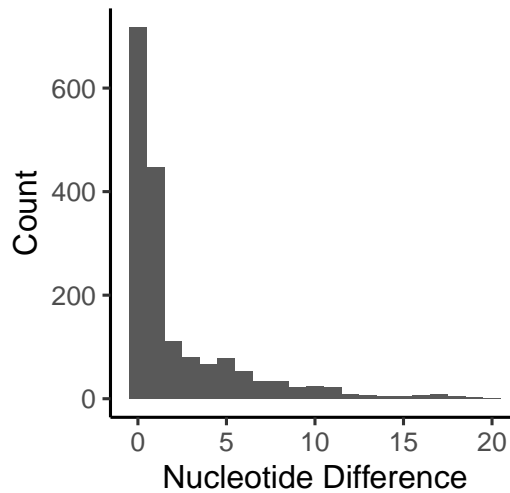
IGHV3-20*01_02

35 sequences assigned
14 (40%) exact matches, in which:
11 unique CDR3
4 unique J



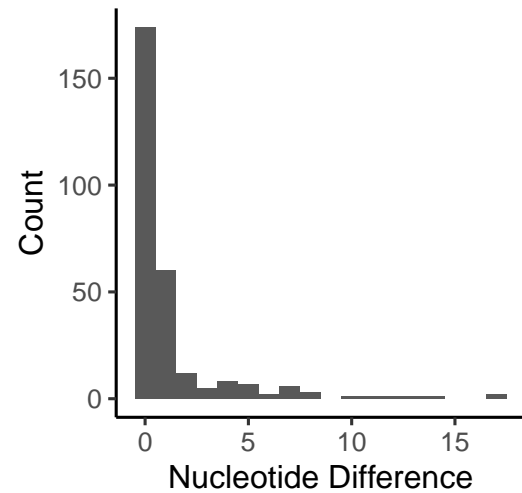
IGHV3-21*01_02

1750 sequences assigned
718 (41%) exact matches, in which:
470 unique CDR3
6 unique J



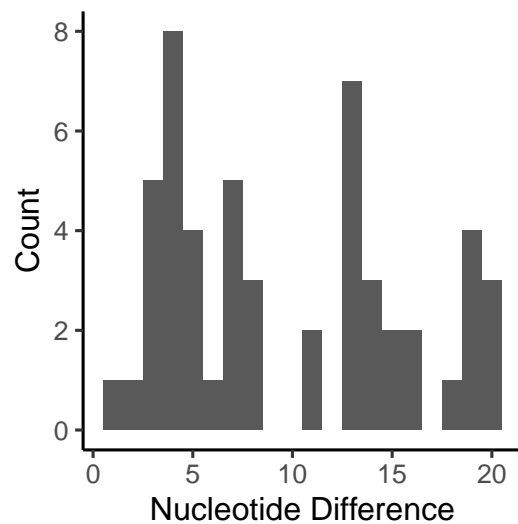
IGHV3-30*03

289 sequences assigned
174 (60.2%) exact matches, in which:
165 unique CDR3
6 unique J



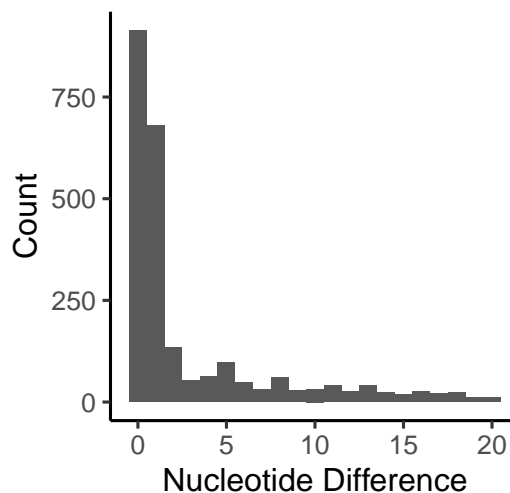
IGHV3-20*03_04

55 sequences assigned
No exact matches.



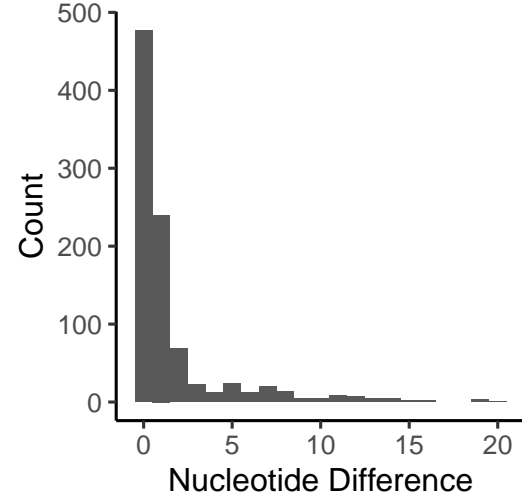
IGHV3-23*01_04

2452 sequences assigned
914 (37.3%) exact matches, in which:
534 unique CDR3
6 unique J



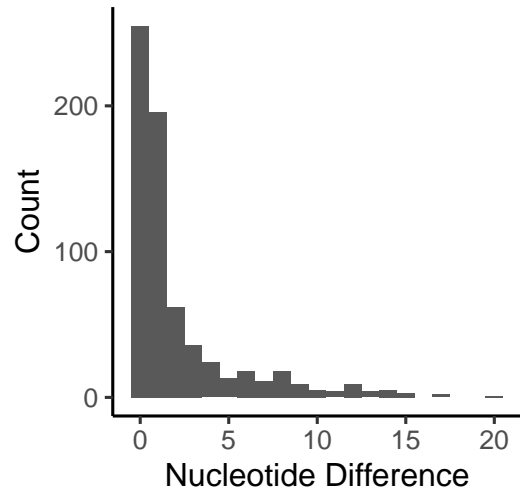
IGHV3-30*18

941 sequences assigned
477 (50.7%) exact matches, in which:
294 unique CDR3
6 unique J



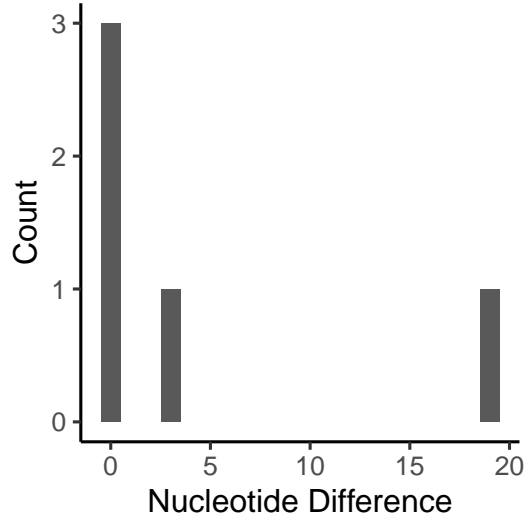
IGHV3-33*01

677 sequences assigned
255 (37.7%) exact matches, in which:
192 unique CDR3
6 unique J



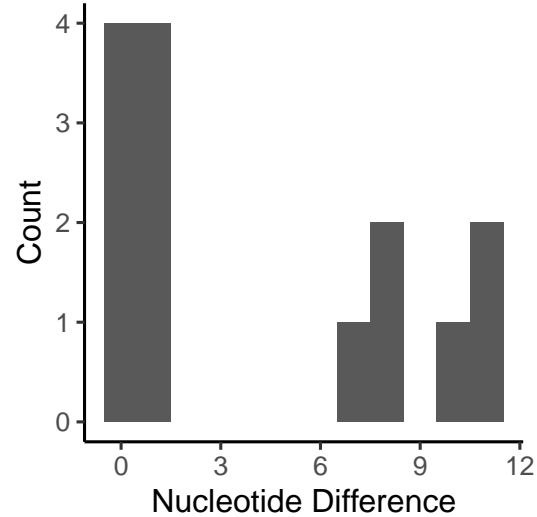
IGHV3-35*02

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
2 unique J



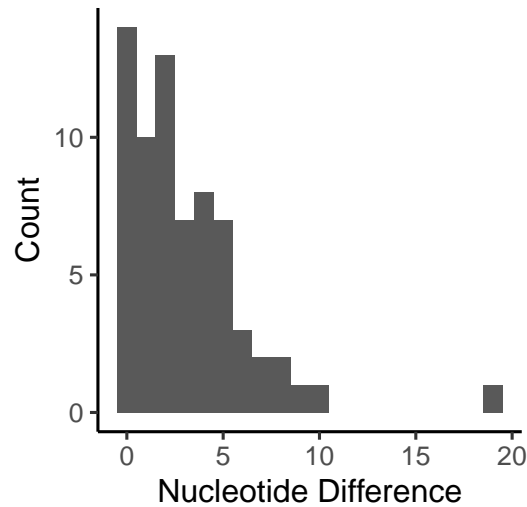
IGHV3-47*02

14 sequences assigned
4 (28.6%) exact matches, in which:
3 unique CDR3
2 unique J



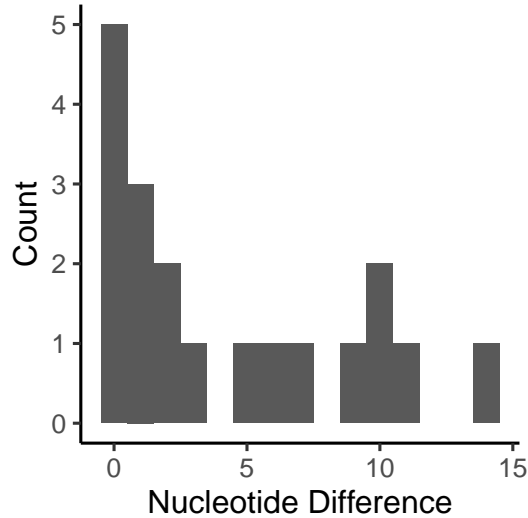
IGHV3-33*05

69 sequences assigned
14 (20.3%) exact matches, in which:
13 unique CDR3
2 unique J



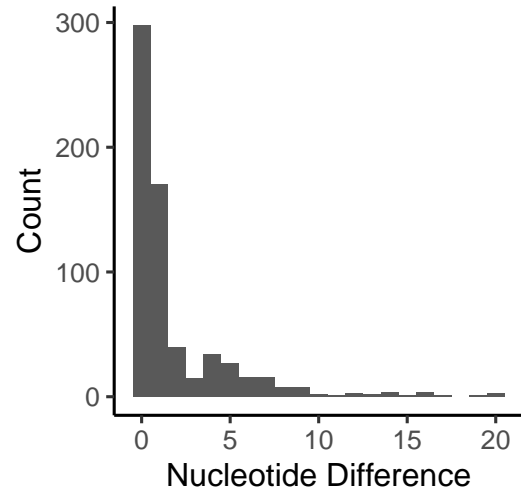
IGHV3-38-3*01

19 sequences assigned
5 (26.3%) exact matches, in which:
5 unique CDR3
3 unique J



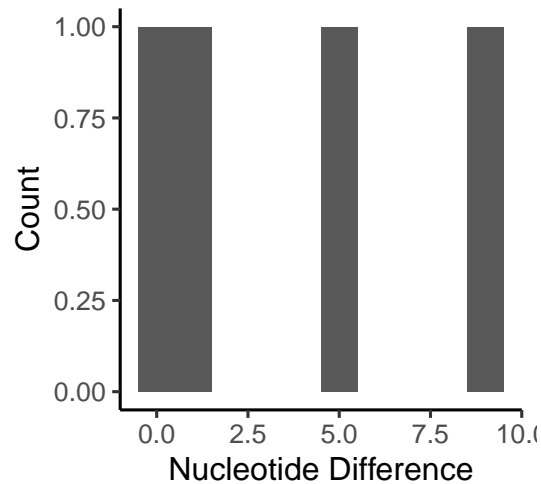
IGHV3-48*01

663 sequences assigned
298 (44.9%) exact matches, in which:
219 unique CDR3
5 unique J



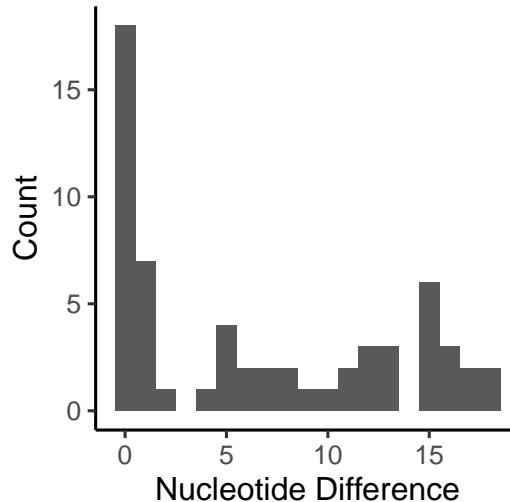
IGHV3-35*01

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



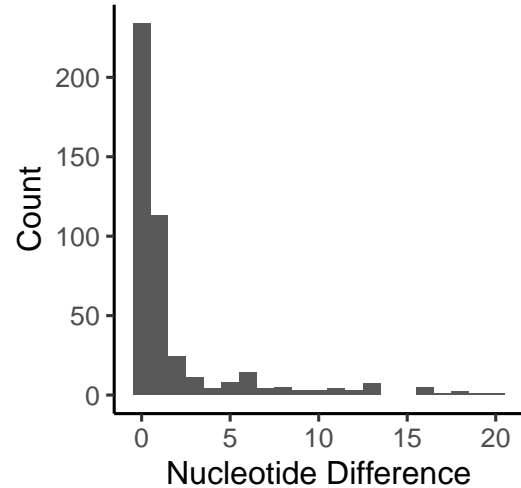
IGHV3-43*01

63 sequences assigned
18 (28.6%) exact matches, in which:
12 unique CDR3
3 unique J



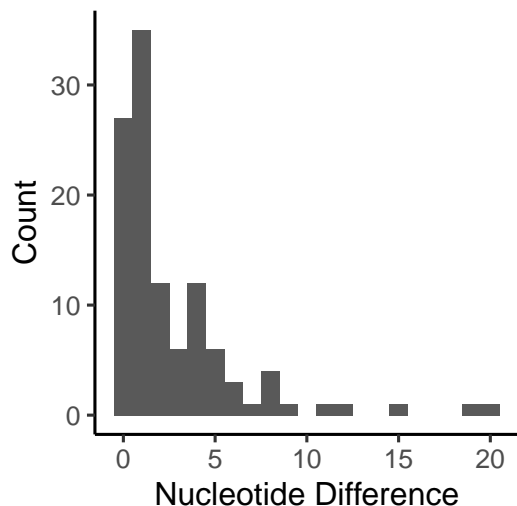
IGHV3-48*02

448 sequences assigned
234 (52.2%) exact matches, in which:
157 unique CDR3
5 unique J



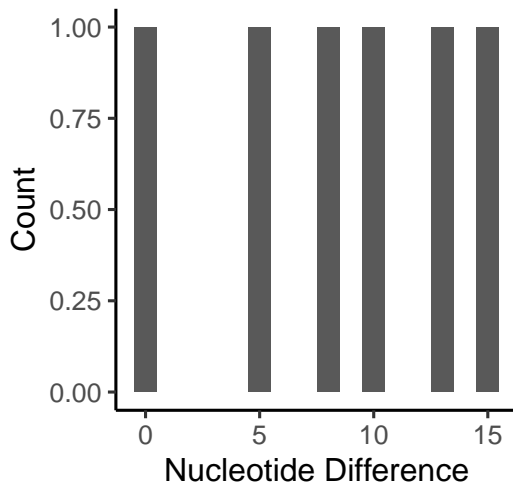
IGHV3-48*04

115 sequences assigned
27 (23.5%) exact matches, in which:
26 unique CDR3
3 unique J



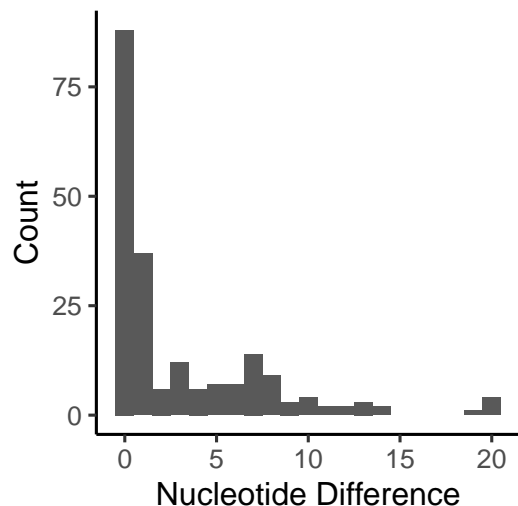
IGHV3-52*01_03

6 sequences assigned
1 (16.7%) exact matches, in which:
1 unique CDR3
1 unique J



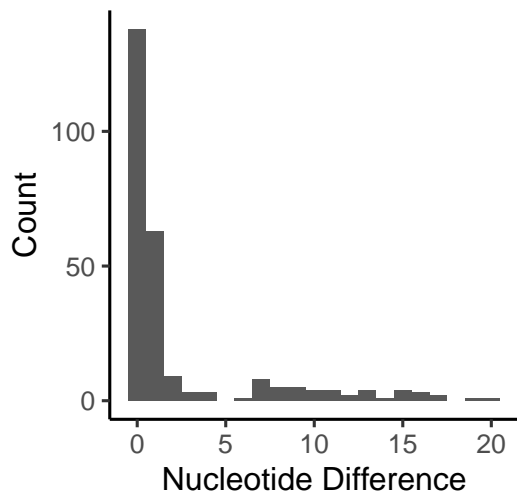
IGHV3-64*01

213 sequences assigned
88 (41.3%) exact matches, in which:
56 unique CDR3
4 unique J



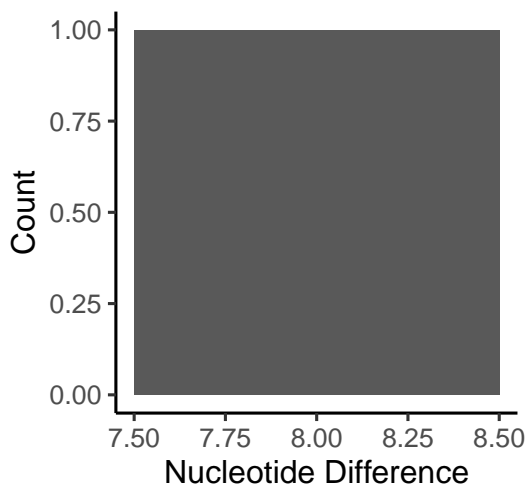
IGHV3-49*03_05

270 sequences assigned
138 (51.1%) exact matches, in which:
94 unique CDR3
6 unique J



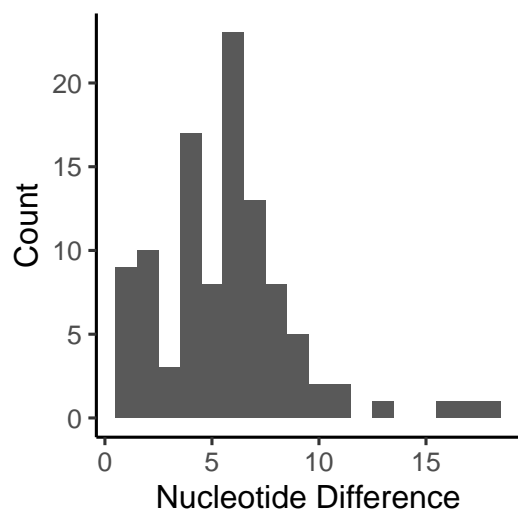
IGHV3-53*05

1 sequences assigned
No exact matches.



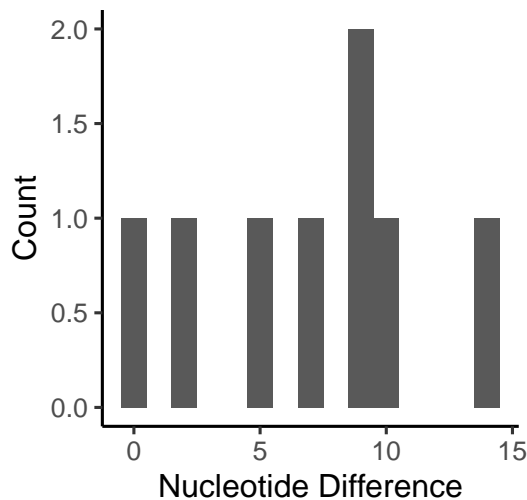
IGHV3-64*04

107 sequences assigned
No exact matches.



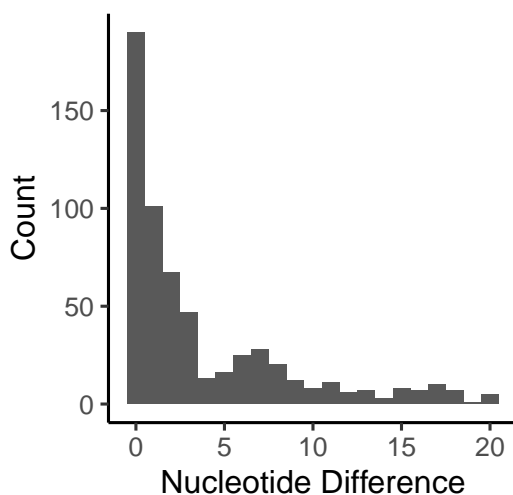
IGHV3-52*02

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



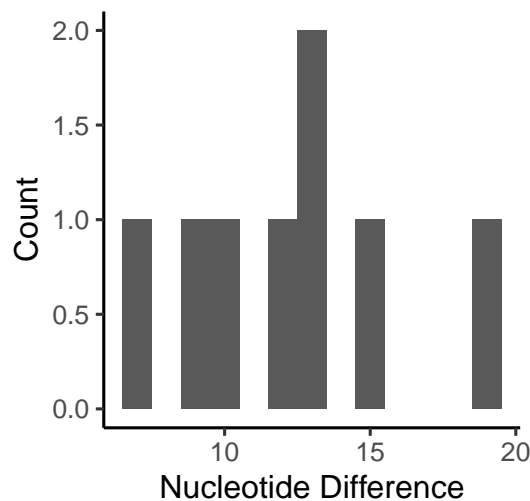
IGHV3-53*01_02

627 sequences assigned
190 (30.3%) exact matches, in which:
141 unique CDR3
6 unique J



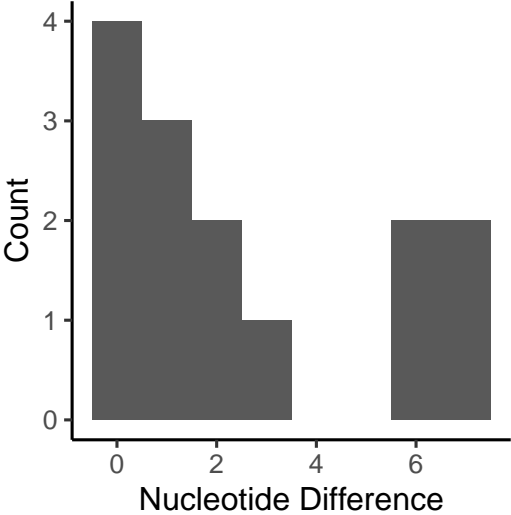
IGHV3-66*01

8 sequences assigned
No exact matches.



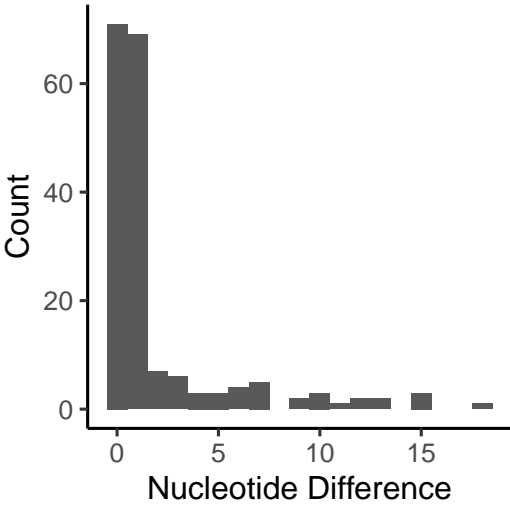
IGHV3-66*03

14 sequences assigned
4 (28.6%) exact matches, in which:
4 unique CDR3
3 unique J



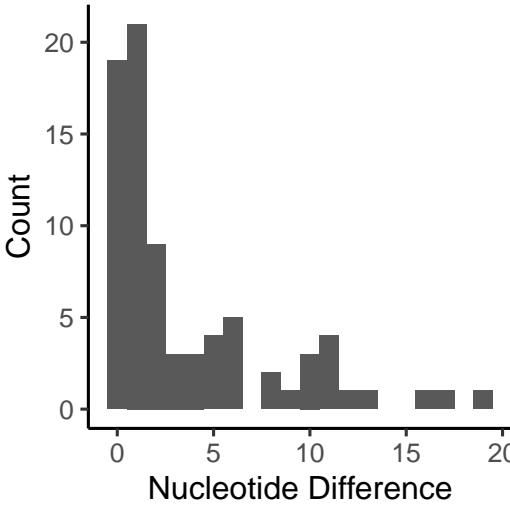
IGHV3-73*01_02

183 sequences assigned
71 (38.8%) exact matches, in which:
46 unique CDR3
5 unique J



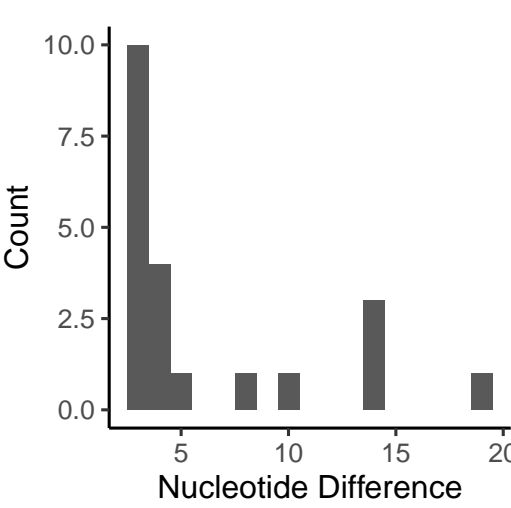
IGHV3-43D*03

90 sequences assigned
19 (21.1%) exact matches, in which:
13 unique CDR3
3 unique J



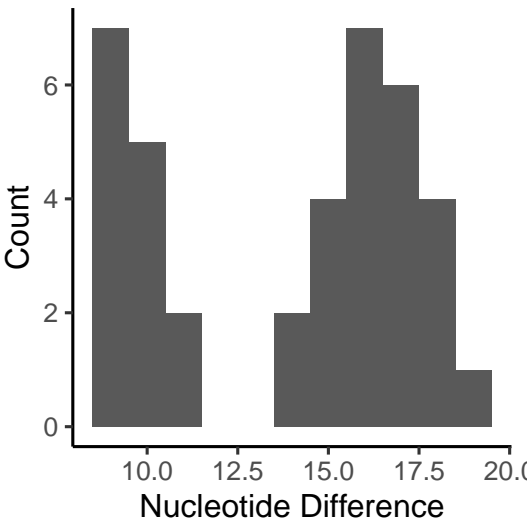
IGHV3-69-1*01

21 sequences assigned
No exact matches.



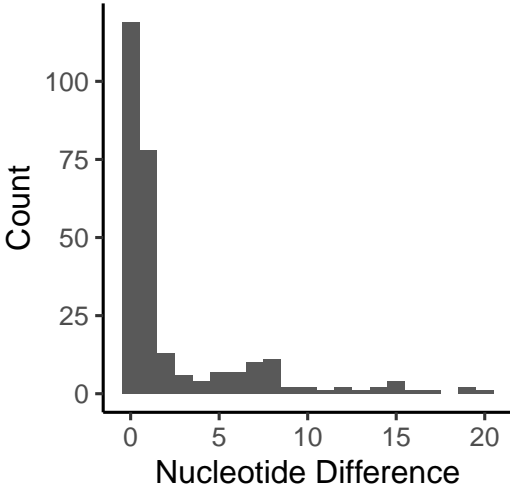
IGHV3-74*03

85 sequences assigned
No exact matches.



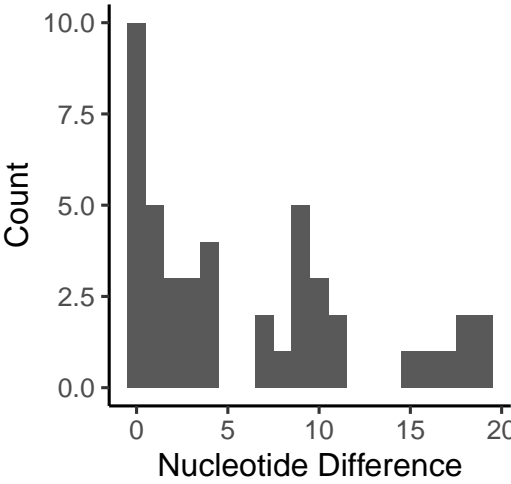
IGHV3-64D*06

303 sequences assigned
119 (39.3%) exact matches, in which:
68 unique CDR3
5 unique J



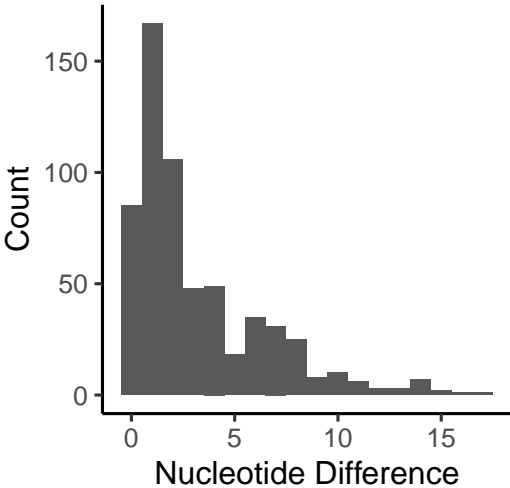
IGHV3-72*01

56 sequences assigned
10 (17.9%) exact matches, in which:
7 unique CDR3
2 unique J



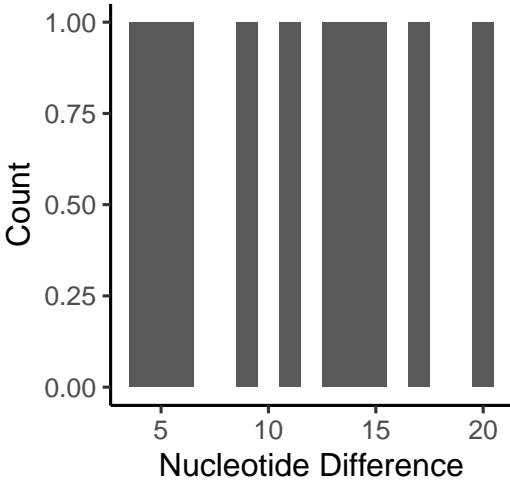
IGHV3-74*01_02

627 sequences assigned
85 (13.6%) exact matches, in which:
52 unique CDR3
4 unique J



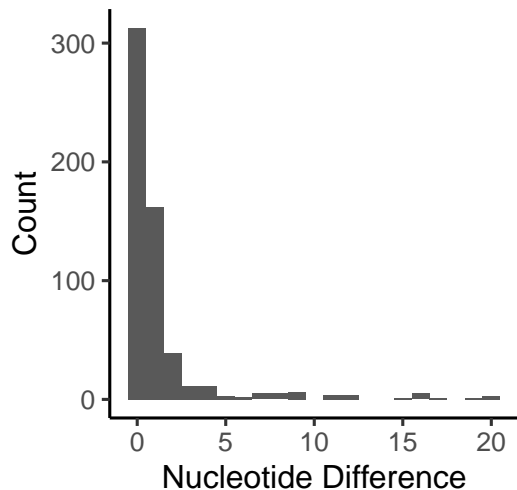
IGHV3-NL1*01

11 sequences assigned
No exact matches.



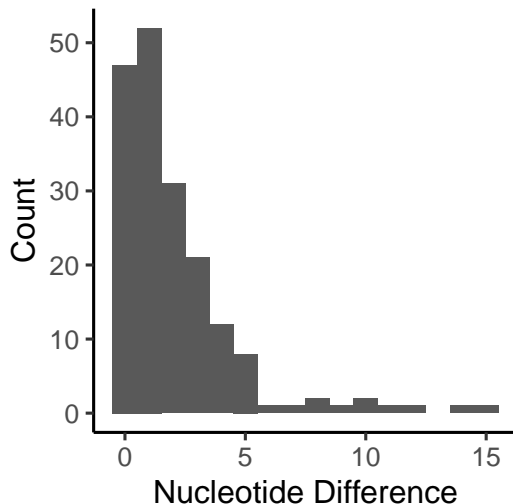
IGHV4-4*02_03

589 sequences assigned
313 (53.1%) exact matches, in which:
250 unique CDR3
6 unique J



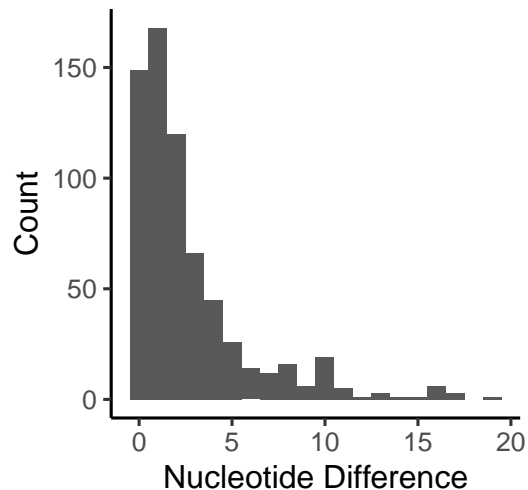
IGHV4-30-2*01

184 sequences assigned
47 (25.5%) exact matches, in which:
35 unique CDR3
4 unique J



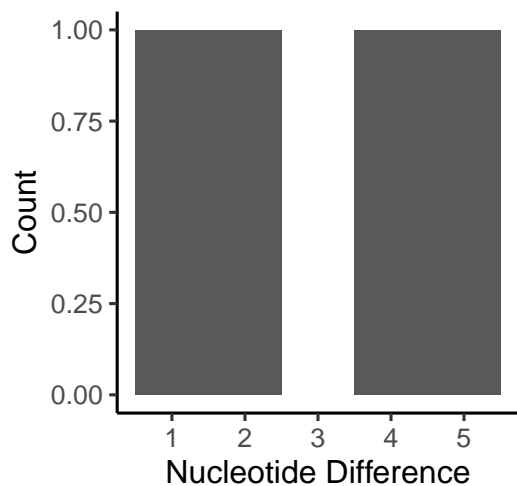
IGHV4-38-2*02

679 sequences assigned
149 (21.9%) exact matches, in which:
135 unique CDR3
6 unique J



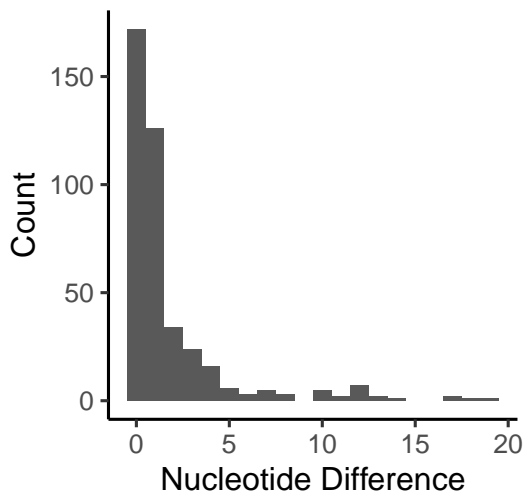
IGHV4-28*03

4 sequences assigned
No exact matches.



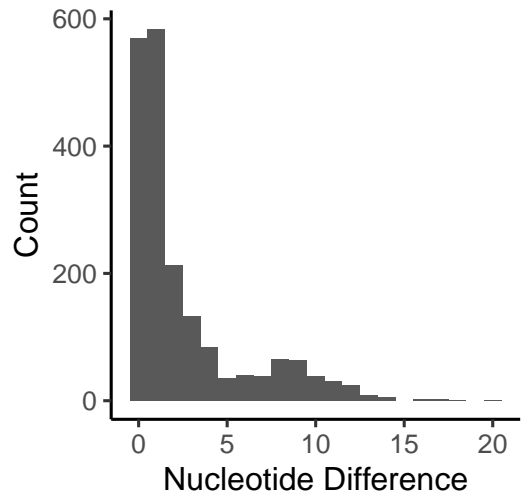
IGHV4-31*02

412 sequences assigned
172 (41.7%) exact matches, in which:
141 unique CDR3
6 unique J



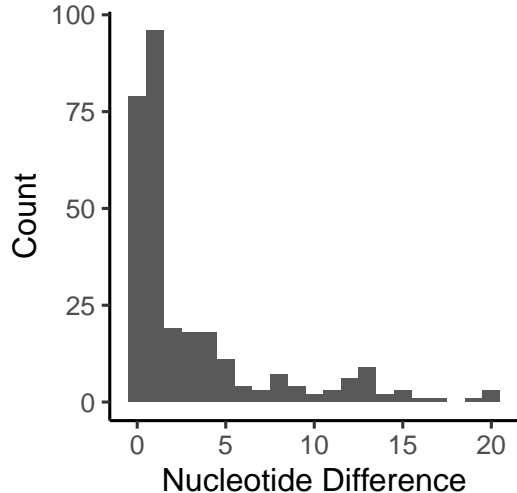
IGHV4-39*07

1962 sequences assigned
569 (29%) exact matches, in which:
478 unique CDR3
6 unique J



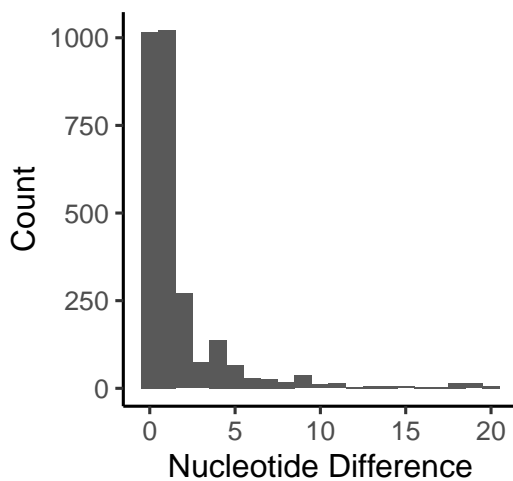
IGHV4-30-4*01

296 sequences assigned
79 (26.7%) exact matches, in which:
55 unique CDR3
5 unique J



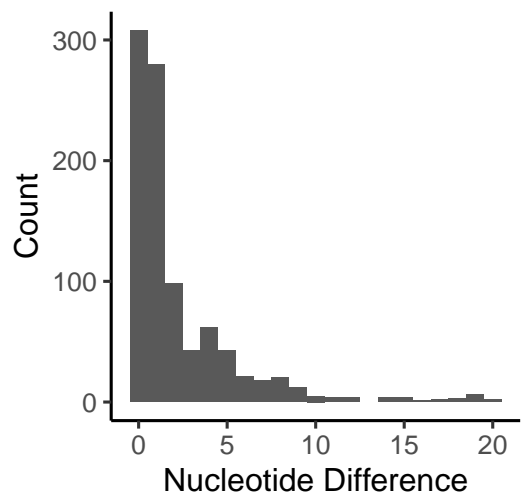
IGHV4-34*01_02

2799 sequences assigned
1017 (36.3%) exact matches, in which:
750 unique CDR3
6 unique J



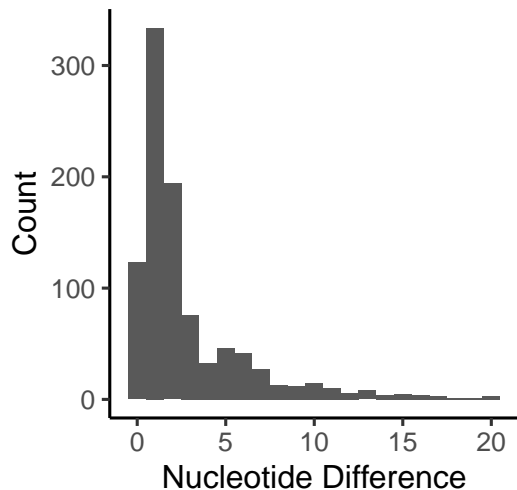
IGHV4-59*08

959 sequences assigned
308 (32.1%) exact matches, in which:
269 unique CDR3
6 unique J



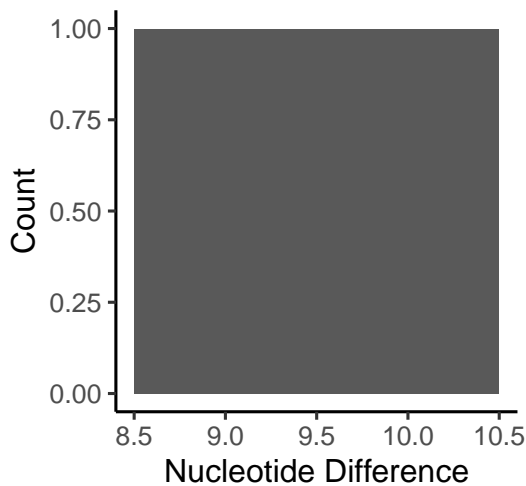
IGHV4–59*12

995 sequences assigned
123 (12.4%) exact matches, in which:
121 unique CDR3
6 unique J



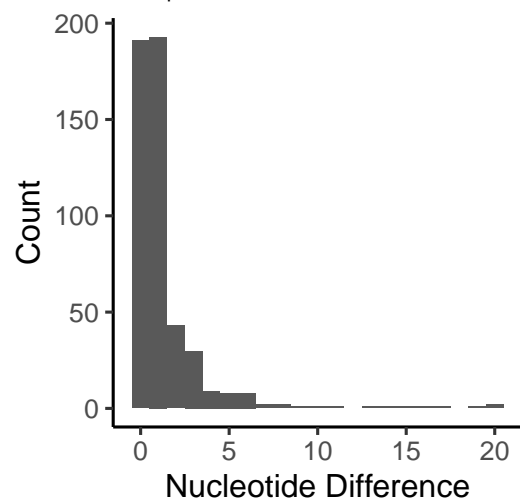
IGHV1/OR15–3*02

2 sequences assigned
No exact matches.



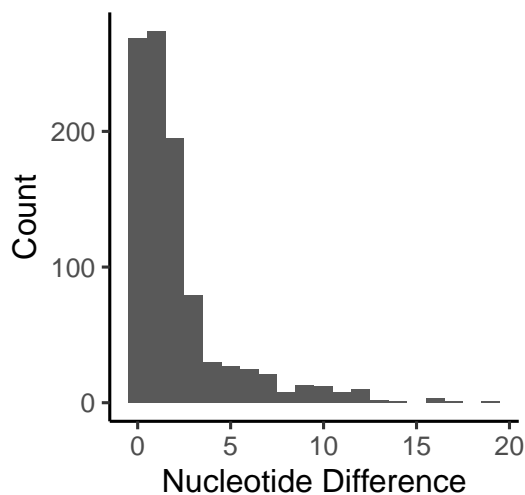
IGHV5–10–1*01_03

498 sequences assigned
191 (38.4%) exact matches, in which:
132 unique CDR3
5 unique J



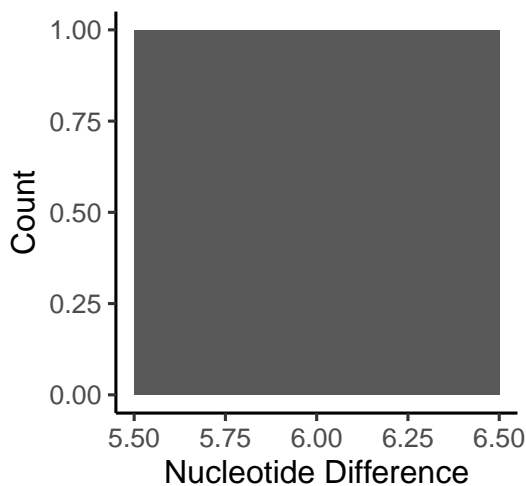
IGHV4–61*02

999 sequences assigned
269 (26.9%) exact matches, in which:
249 unique CDR3
6 unique J



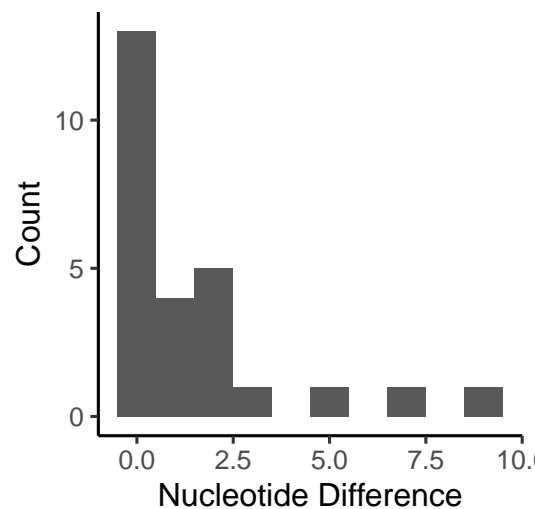
IGHV4/OR15–8*01

1 sequences assigned
No exact matches.



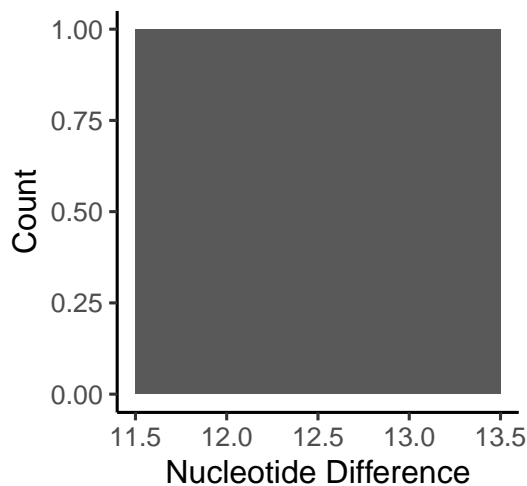
IGHV5–51*07

26 sequences assigned
13 (50%) exact matches, in which:
13 unique CDR3
3 unique J



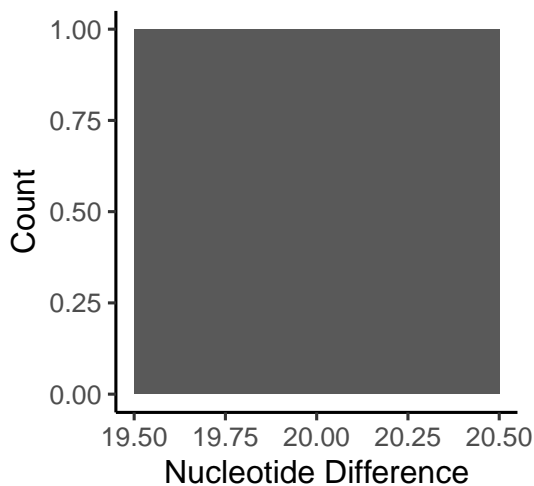
IGHV1/OR15–2*02_03

2 sequences assigned
No exact matches.



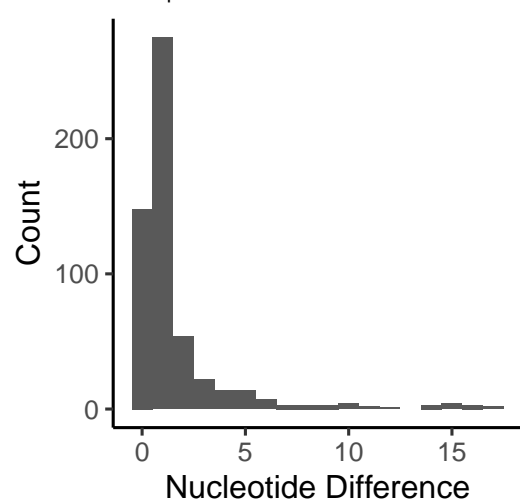
IGHV4/OR15–8*02

1 sequences assigned
No exact matches.



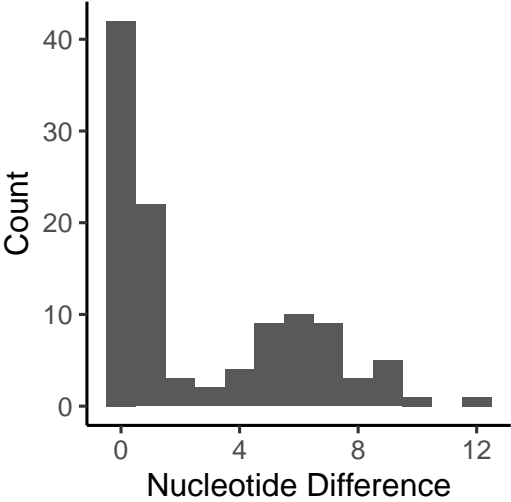
IGHV6–1*01_02

562 sequences assigned
148 (26.3%) exact matches, in which:
130 unique CDR3
5 unique J



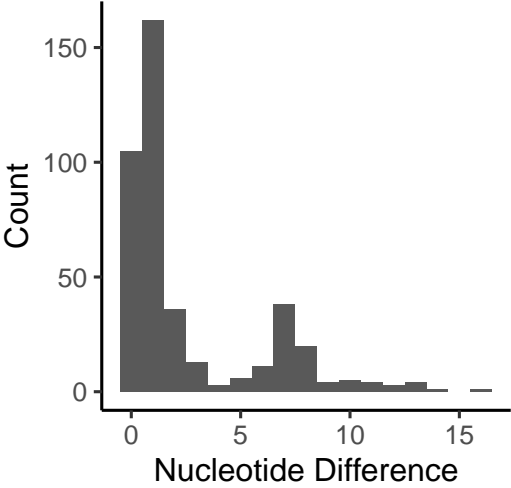
IGHV6-1*01_02_A315G

111 sequences assigned
42 (37.8%) exact matches, in which:
42 unique CDR3
4 unique J



IGHV7-4-1*02

423 sequences assigned
105 (24.8%) exact matches, in which:
95 unique CDR3
6 unique J



IGHV6-1*01_02_A315G

