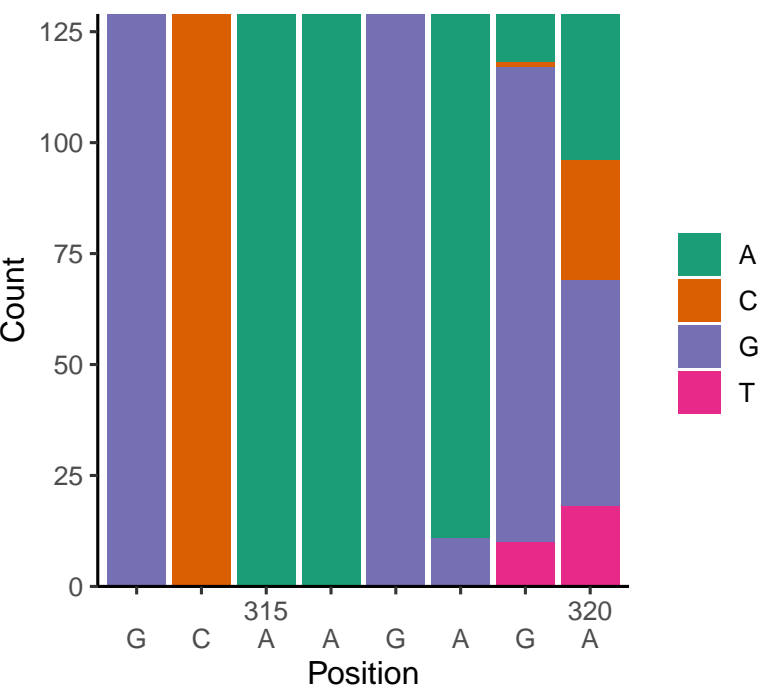
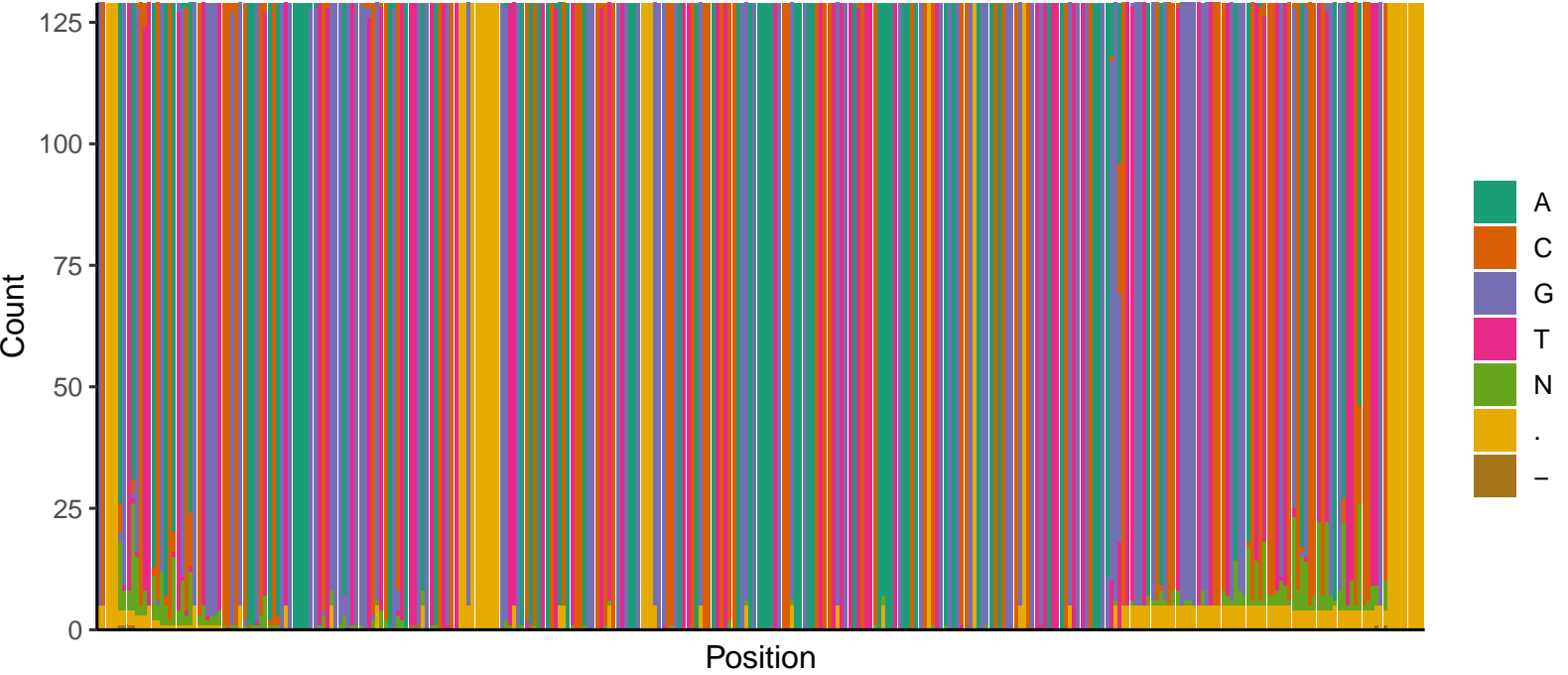


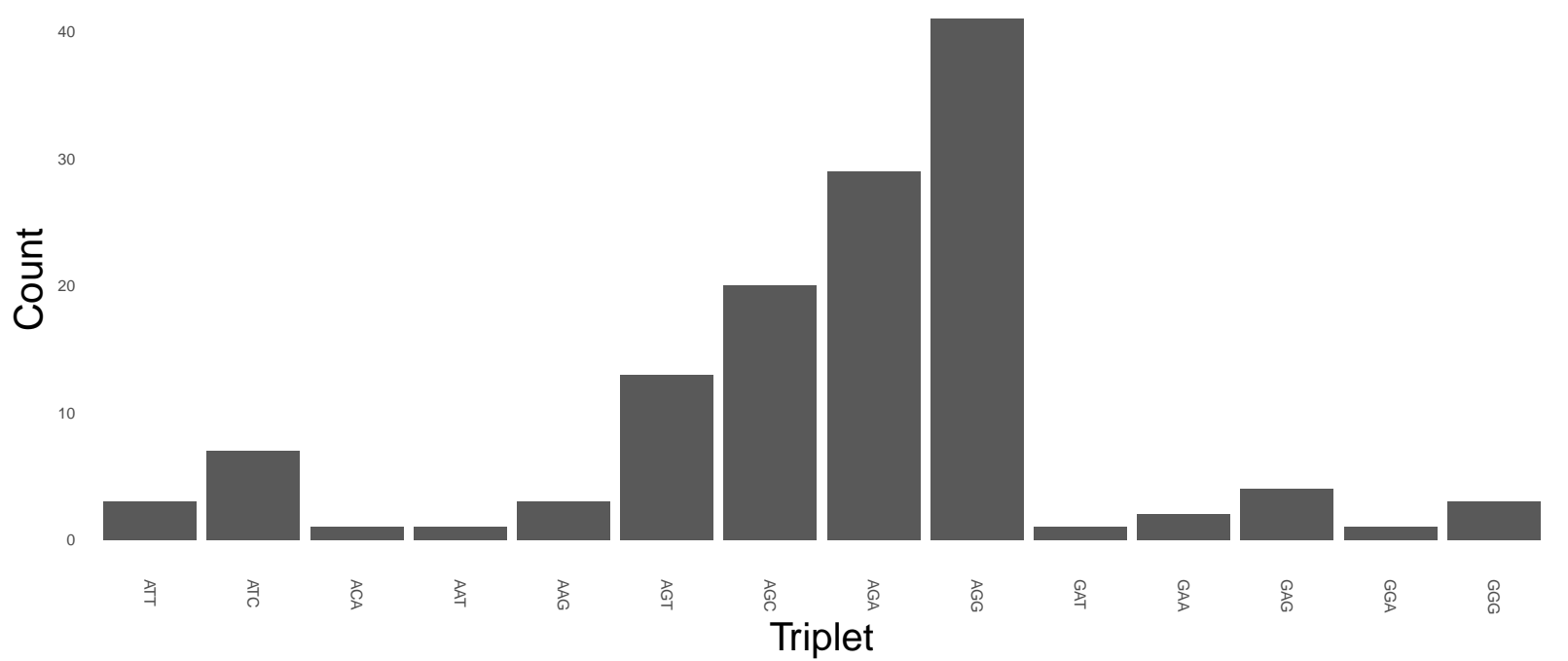
Gene IGHV3-13*01_G290A_T300C



Gene IGHV3-13*01_G290A_T300C

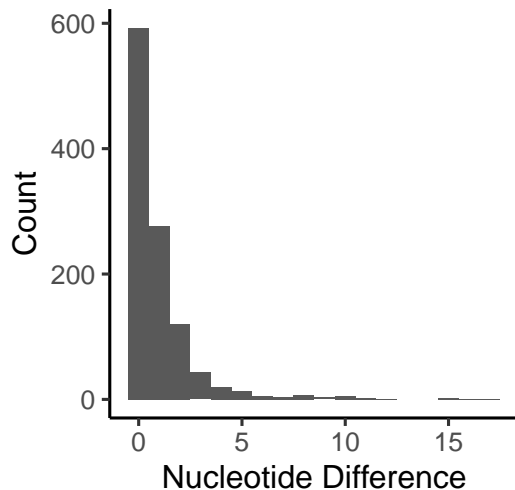


IGHV3-13*01_G290A_T300C- Final 3 nucleotides as a triplet



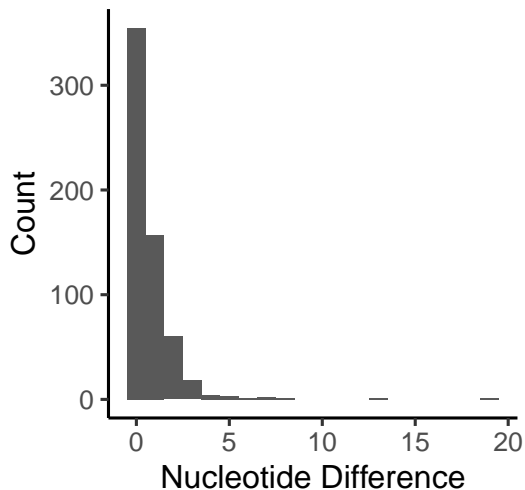
IGHV1-2*04

1099 sequences assigned
593 (54%) exact matches, in which:
492 unique CDR3
6 unique J



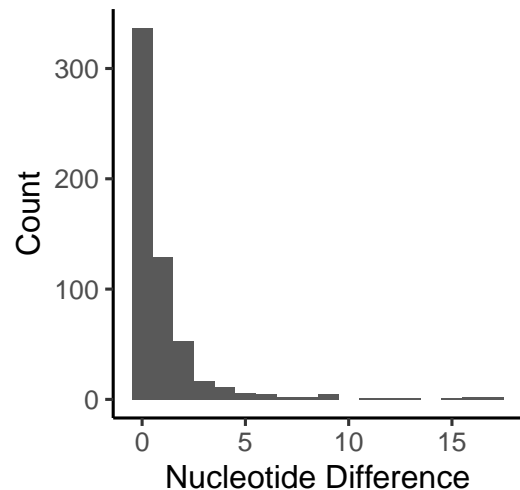
IGHV1-24*01

603 sequences assigned
355 (58.9%) exact matches, in which:
304 unique CDR3
6 unique J



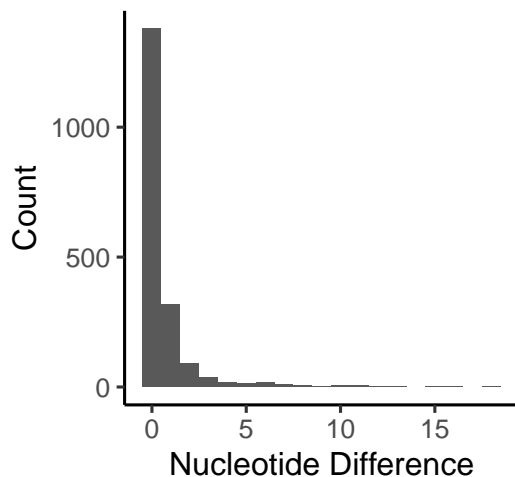
IGHV1-46*03

575 sequences assigned
337 (58.6%) exact matches, in which:
284 unique CDR3
6 unique J



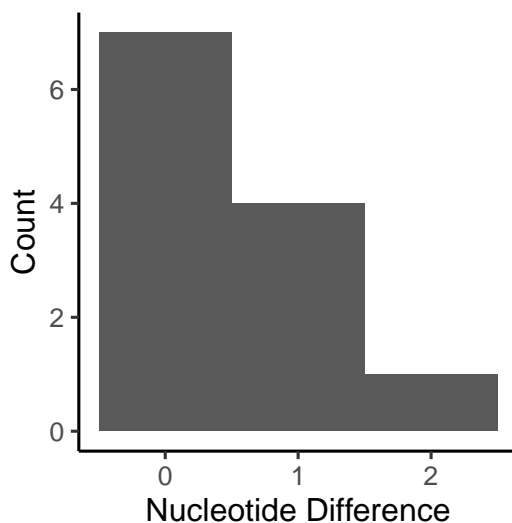
IGHV1-3*01

1905 sequences assigned
1379 (72.4%) exact matches, in which:
1145 unique CDR3
6 unique J



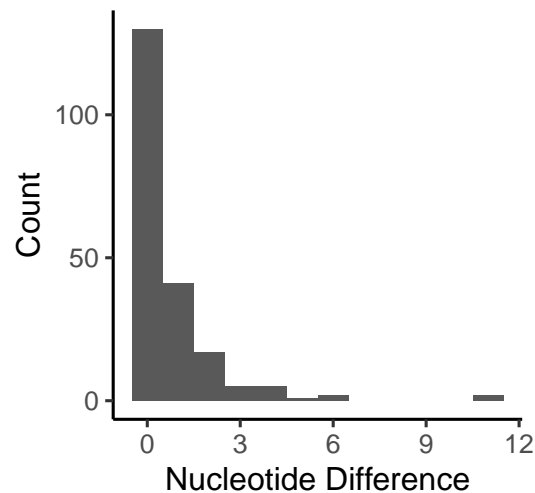
IGHV1-45*02

12 sequences assigned
7 (58.3%) exact matches, in which:
7 unique CDR3
3 unique J



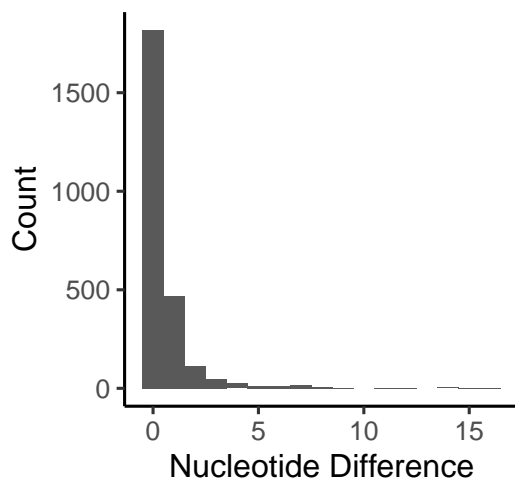
IGHV1-58*01

203 sequences assigned
130 (64%) exact matches, in which:
105 unique CDR3
5 unique J



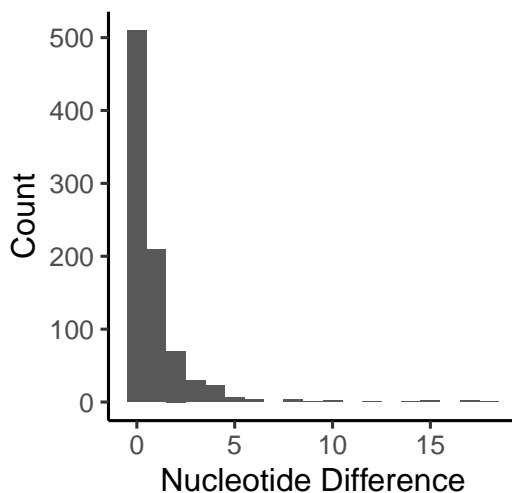
IGHV1-18*01

2531 sequences assigned
1818 (71.8%) exact matches, in which:
1527 unique CDR3
6 unique J



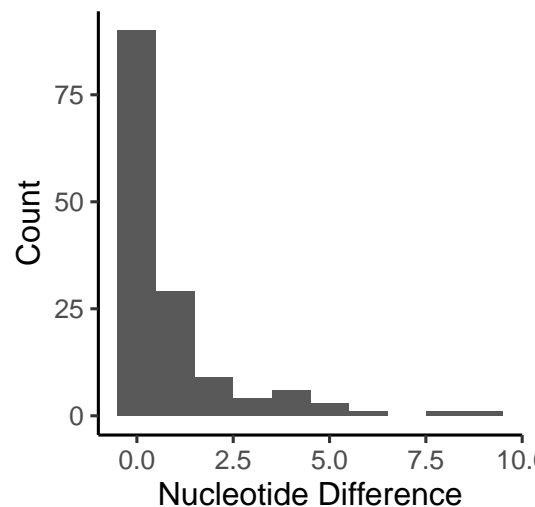
IGHV1-46*01

867 sequences assigned
510 (58.8%) exact matches, in which:
423 unique CDR3
6 unique J



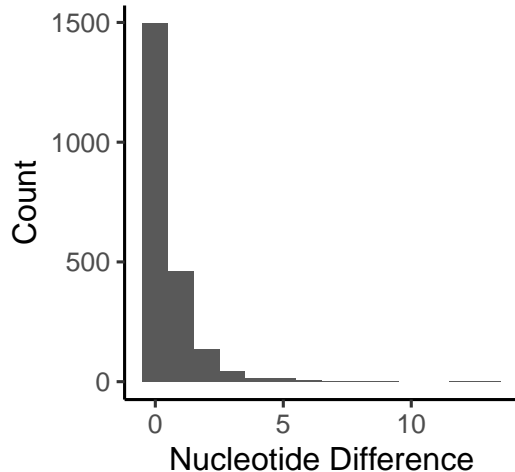
IGHV1-58*02

144 sequences assigned
90 (62.5%) exact matches, in which:
77 unique CDR3
5 unique J



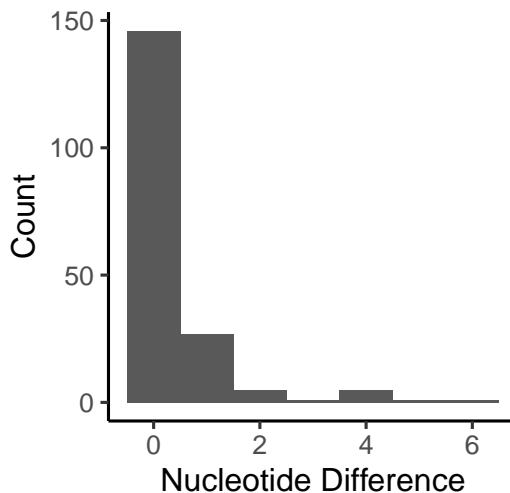
IGHV1-69*04

2187 sequences assigned
1496 (68.4%) exact matches, in which:
1135 unique CDR3
6 unique J



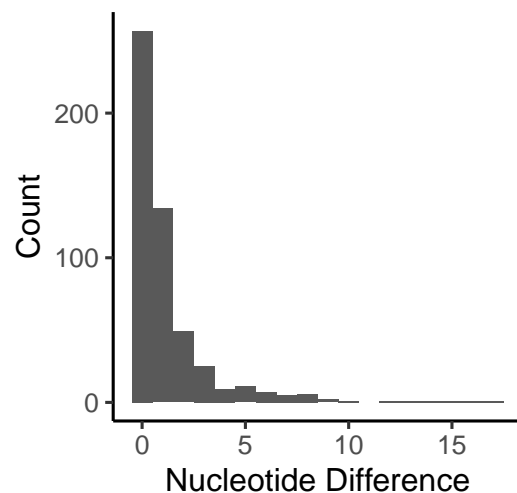
IGHV2-70*01

186 sequences assigned
146 (78.5%) exact matches, in which:
135 unique CDR3
5 unique J



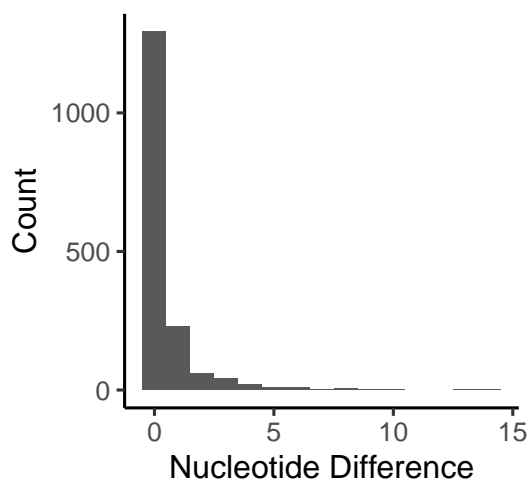
IGHV3-7*04

517 sequences assigned
257 (49.7%) exact matches, in which:
233 unique CDR3
6 unique J



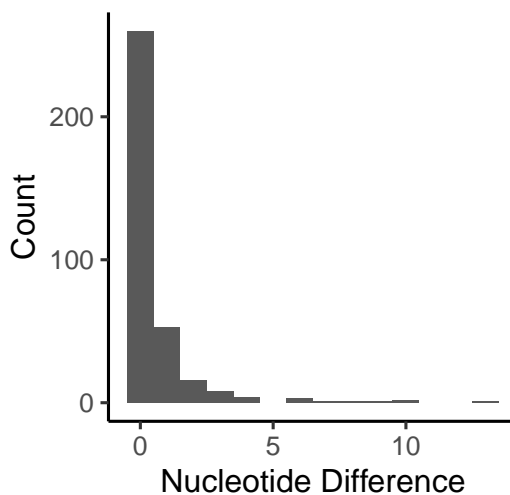
IGHV2-5*02

1673 sequences assigned
1293 (77.3%) exact matches, in which:
1067 unique CDR3
6 unique J



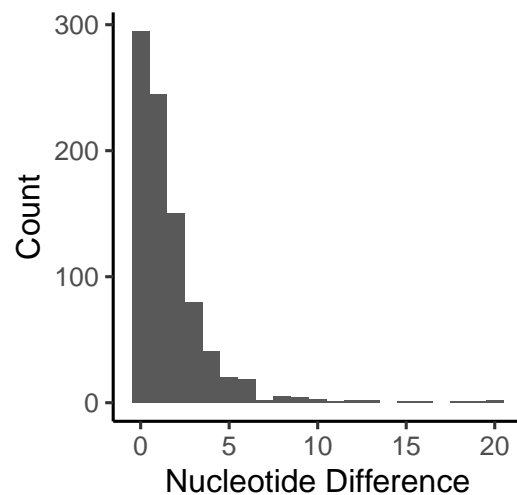
IGHV2-70*15

350 sequences assigned
260 (74.3%) exact matches, in which:
245 unique CDR3
6 unique J



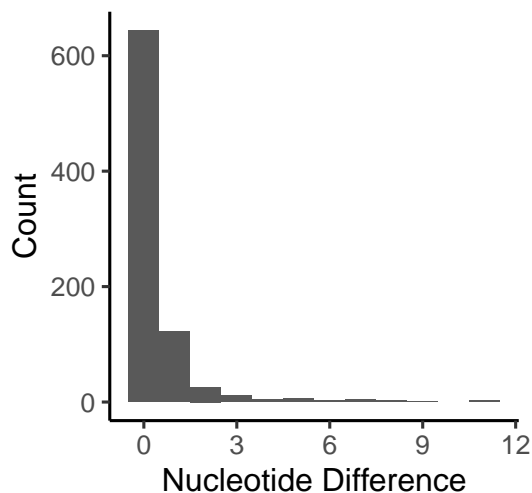
IGHV3-11*05

876 sequences assigned
295 (33.7%) exact matches, in which:
263 unique CDR3
6 unique J



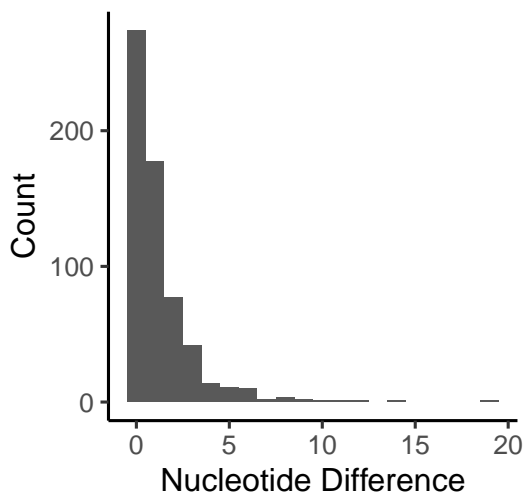
IGHV2-26*01

826 sequences assigned
644 (78%) exact matches, in which:
546 unique CDR3
6 unique J



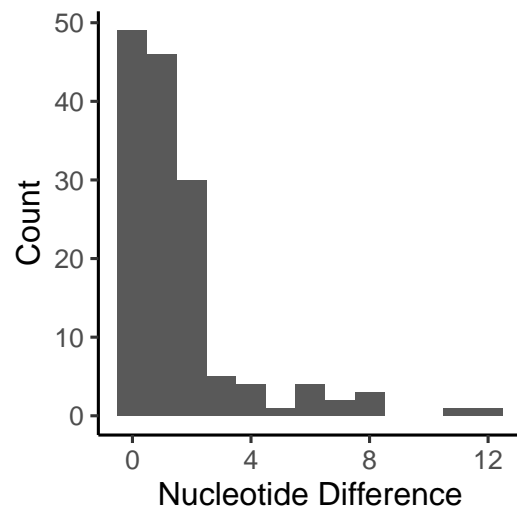
IGHV3-7*03

618 sequences assigned
274 (44.3%) exact matches, in which:
248 unique CDR3
6 unique J



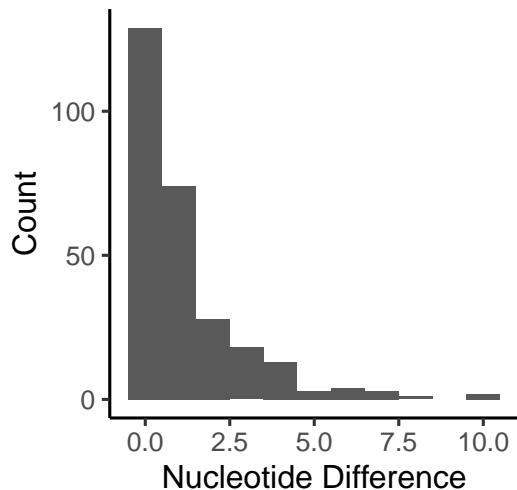
IGHV3-11*06

146 sequences assigned
49 (33.6%) exact matches, in which:
45 unique CDR3
5 unique J



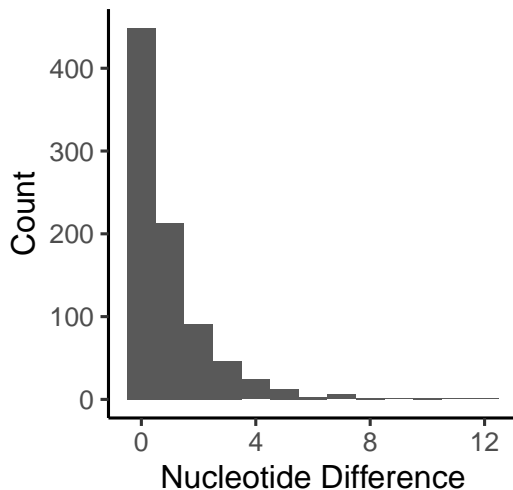
IGHV3-13*04

275 sequences assigned
129 (46.9%) exact matches, in which:
114 unique CDR3
5 unique J



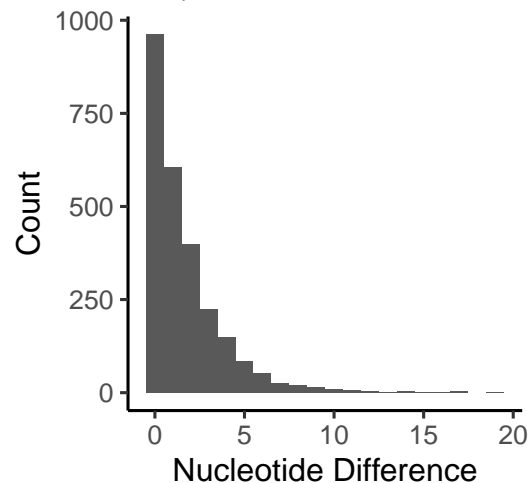
IGHV3-15*07

852 sequences assigned
449 (52.7%) exact matches, in which:
404 unique CDR3
6 unique J



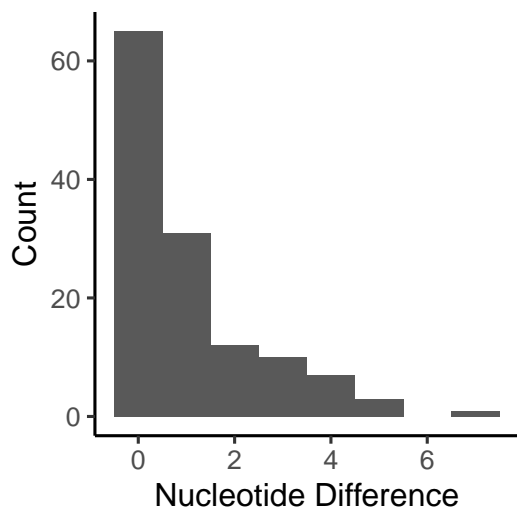
IGHV3-33*01

2573 sequences assigned
962 (37.4%) exact matches, in which:
875 unique CDR3
6 unique J



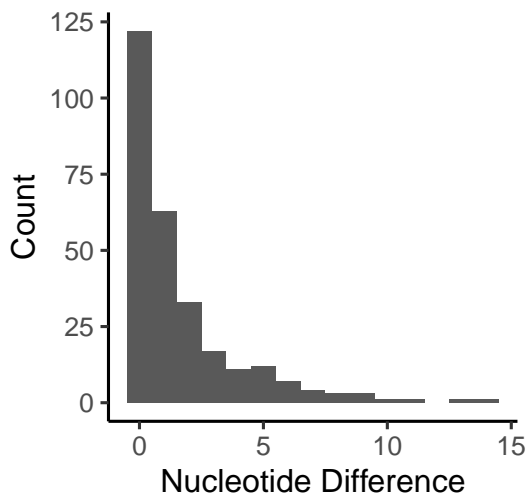
IGHV3-13*01_G290A_T3I

129 sequences assigned
65 (50.4%) exact matches, in which:
56 unique CDR3
5 unique J



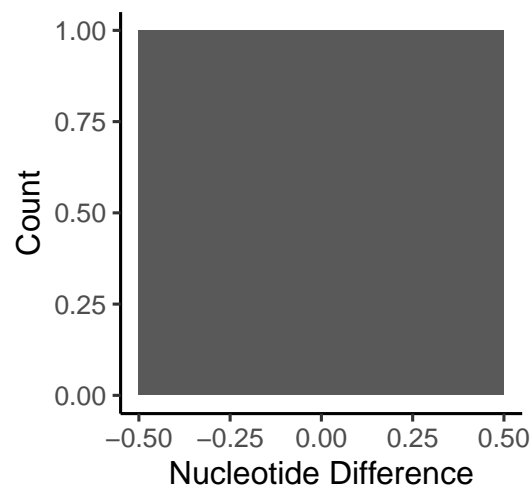
IGHV3-20*04

280 sequences assigned
122 (43.6%) exact matches, in which:
110 unique CDR3
5 unique J



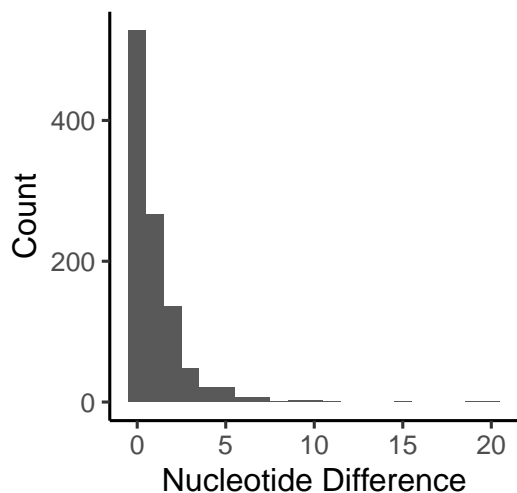
IGHV3-47*02

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



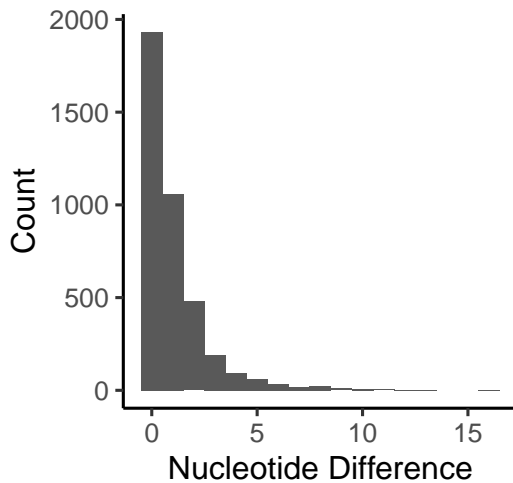
IGHV3-15*01

1043 sequences assigned
528 (50.6%) exact matches, in which:
478 unique CDR3
6 unique J



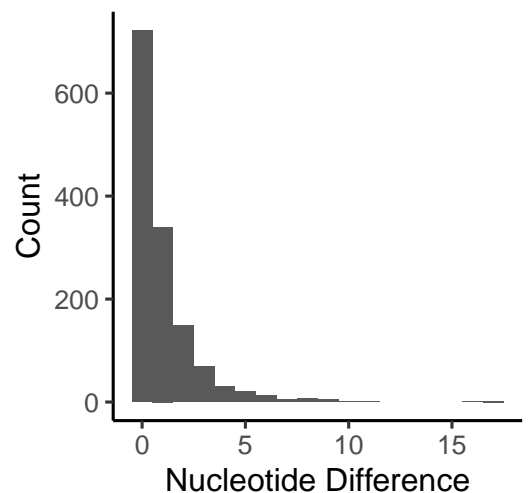
IGHV3-21*01

3915 sequences assigned
1932 (49.3%) exact matches, in which:
1667 unique CDR3
6 unique J



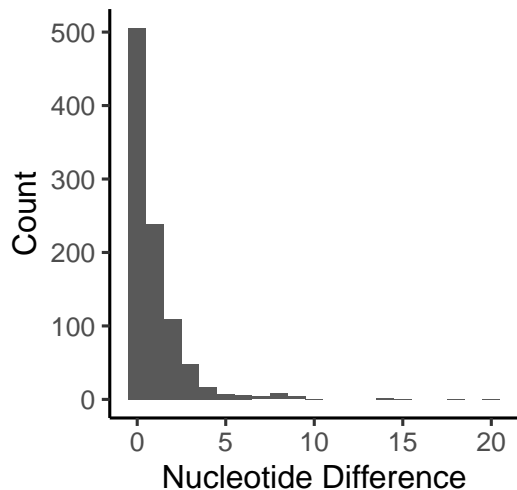
IGHV3-48*01

1365 sequences assigned
722 (52.9%) exact matches, in which:
638 unique CDR3
6 unique J



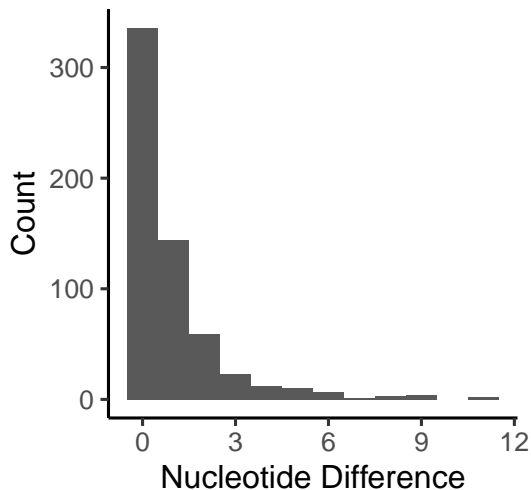
IGHV3-48*02

957 sequences assigned
506 (52.9%) exact matches, in which:
461 unique CDR3
6 unique J



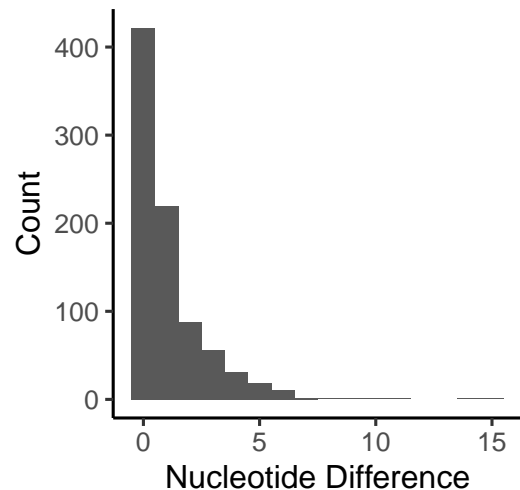
IGHV3-53*01

601 sequences assigned
336 (55.9%) exact matches, in which:
295 unique CDR3
6 unique J



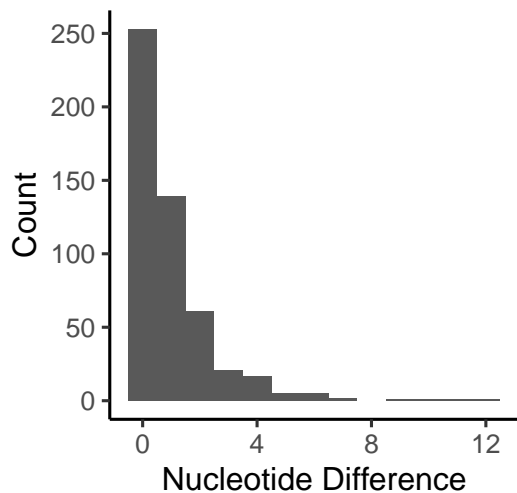
IGHV3-66*01

855 sequences assigned
422 (49.4%) exact matches, in which:
360 unique CDR3
6 unique J



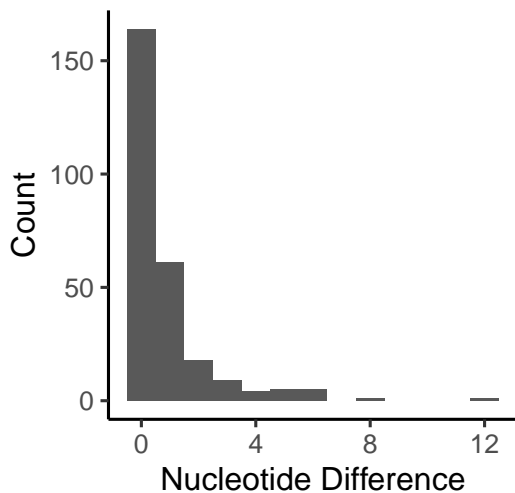
IGHV3-49*03

507 sequences assigned
253 (49.9%) exact matches, in which:
224 unique CDR3
6 unique J



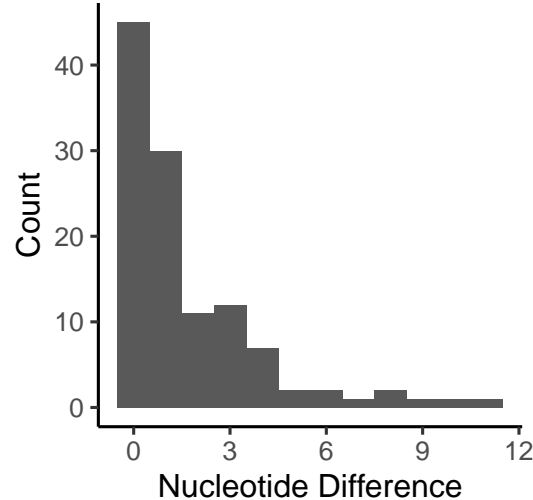
IGHV3-53*04

268 sequences assigned
164 (61.2%) exact matches, in which:
151 unique CDR3
6 unique J



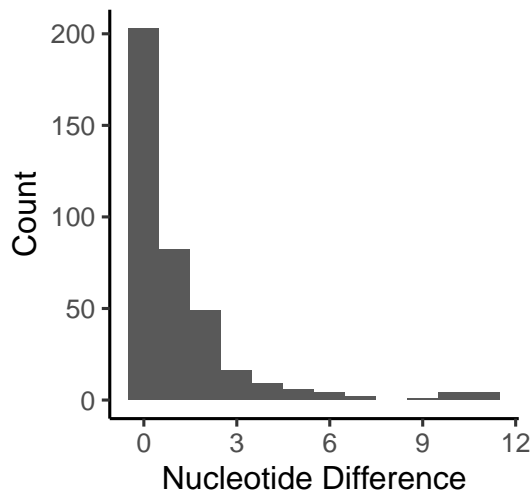
IGHV3-72*01

116 sequences assigned
45 (38.8%) exact matches, in which:
40 unique CDR3
4 unique J



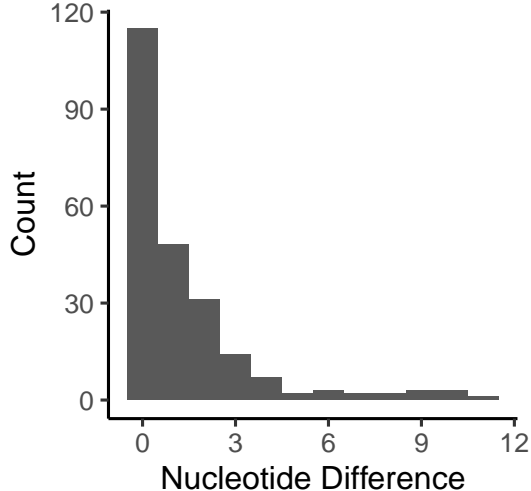
IGHV3-49*05

380 sequences assigned
203 (53.4%) exact matches, in which:
181 unique CDR3
5 unique J



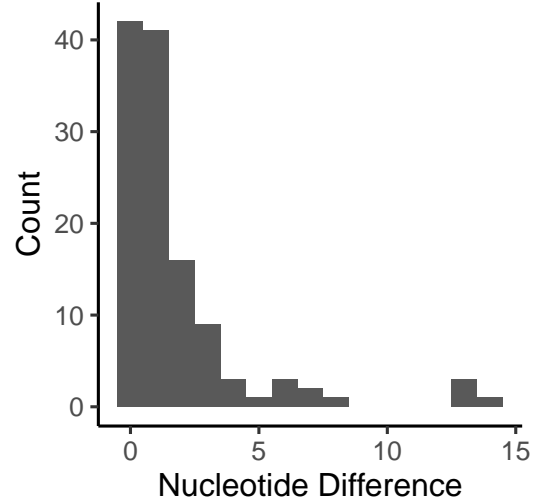
IGHV3-64*01

231 sequences assigned
115 (49.8%) exact matches, in which:
102 unique CDR3
6 unique J



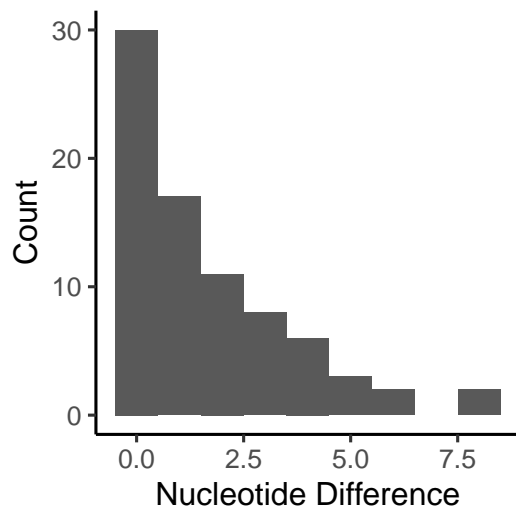
IGHV3-73*01

122 sequences assigned
42 (34.4%) exact matches, in which:
40 unique CDR3
4 unique J



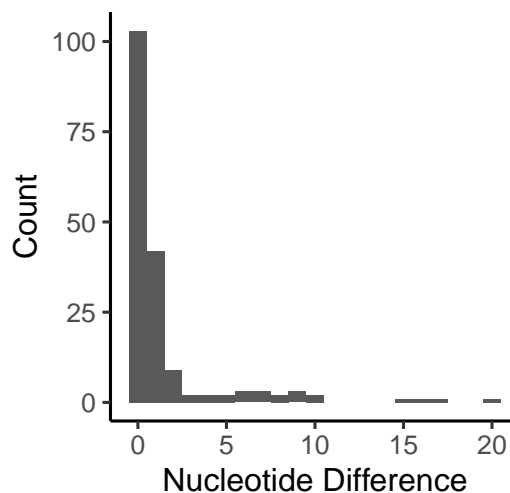
IGHV3-73*02

79 sequences assigned
30 (38%) exact matches, in which:
26 unique CDR3
4 unique J



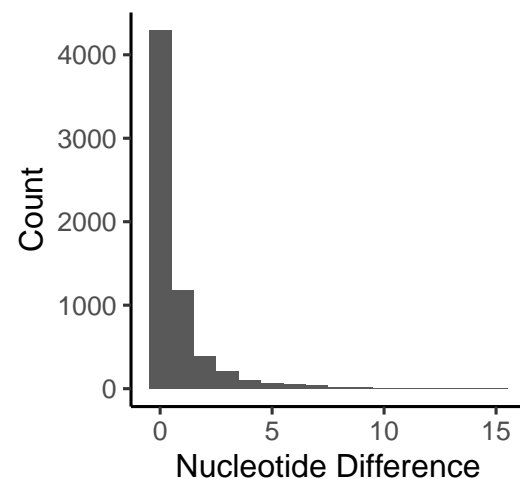
IGHV4-4*02

178 sequences assigned
103 (57.9%) exact matches, in which:
95 unique CDR3
6 unique J



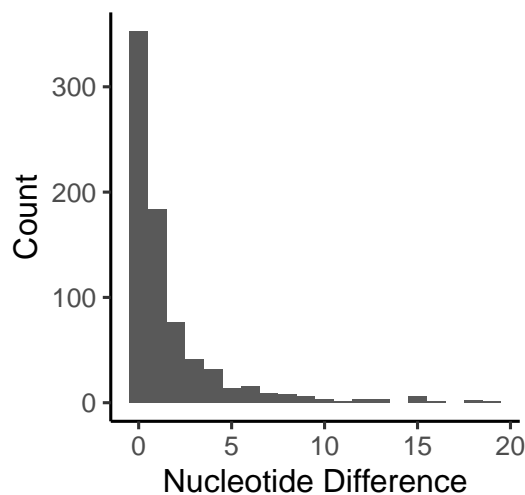
IGHV4-34*01

6387 sequences assigned
4292 (67.2%) exact matches, in which:
3342 unique CDR3
6 unique J



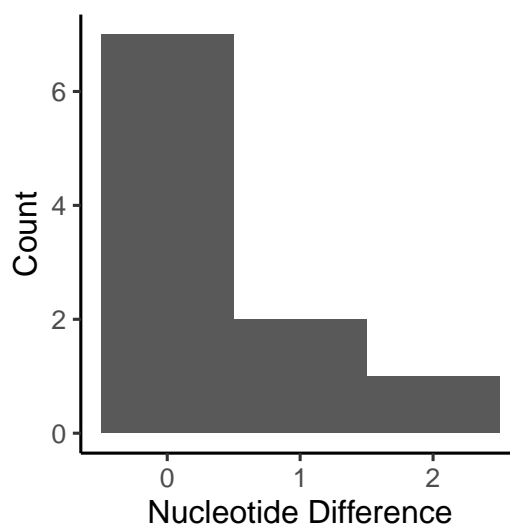
IGHV3-74*01

760 sequences assigned
353 (46.4%) exact matches, in which:
315 unique CDR3
6 unique J



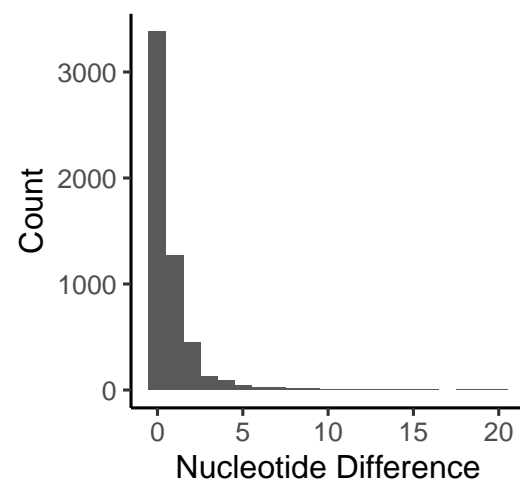
IGHV4-28*01

10 sequences assigned
7 (70%) exact matches, in which:
7 unique CDR3
4 unique J



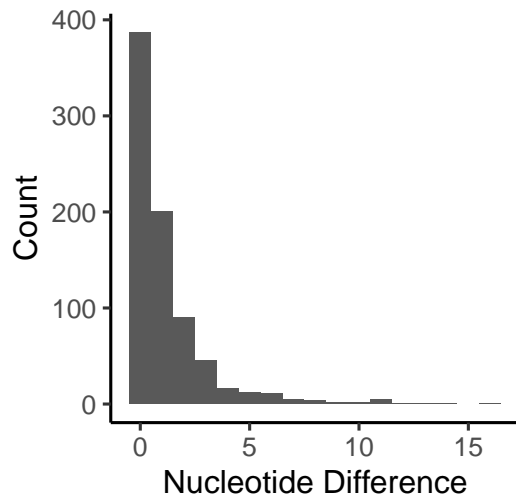
IGHV4-39*01

5483 sequences assigned
3380 (61.6%) exact matches, in which:
2750 unique CDR3
6 unique J



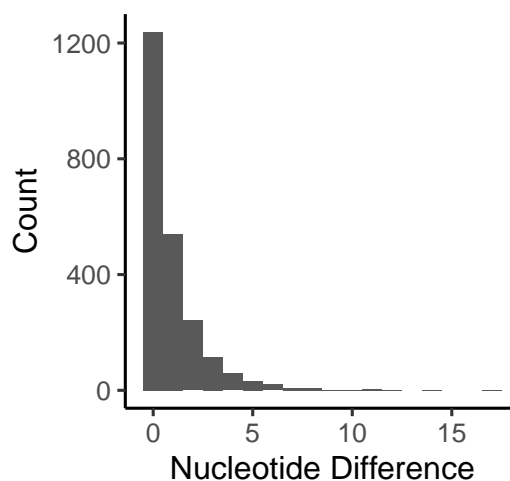
IGHV3-64D*06

786 sequences assigned
387 (49.2%) exact matches, in which:
342 unique CDR3
6 unique J



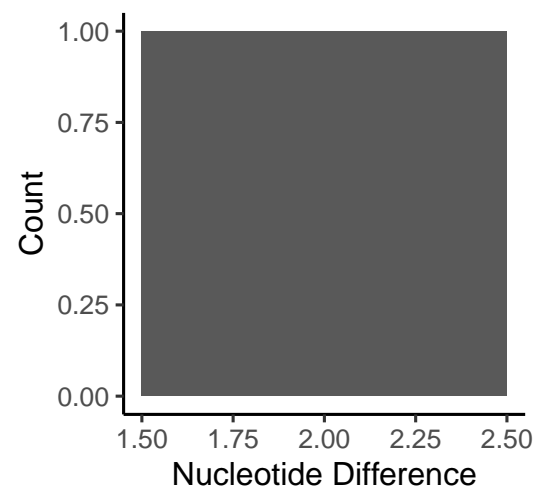
IGHV4-31*03

2269 sequences assigned
1238 (54.6%) exact matches, in which:
1056 unique CDR3
6 unique J



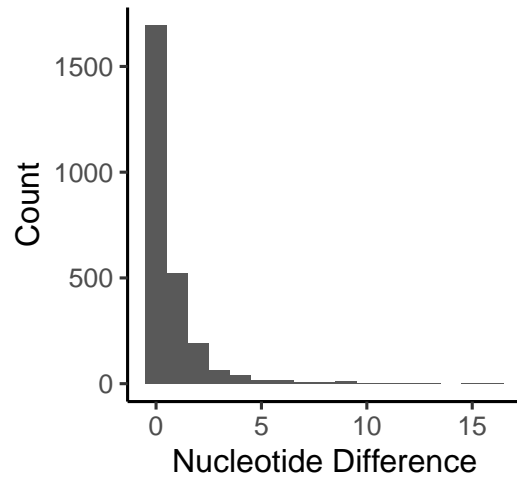
IGHV4-55*02

1 sequences assigned
No exact matches.



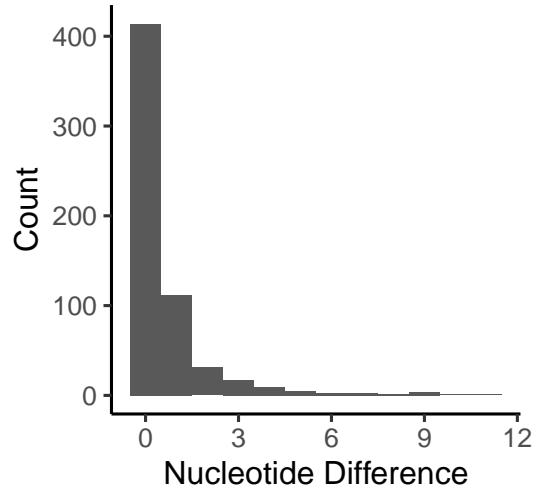
IGHV4-59*01

2588 sequences assigned
1694 (65.5%) exact matches, in which:
1434 unique CDR3
6 unique J



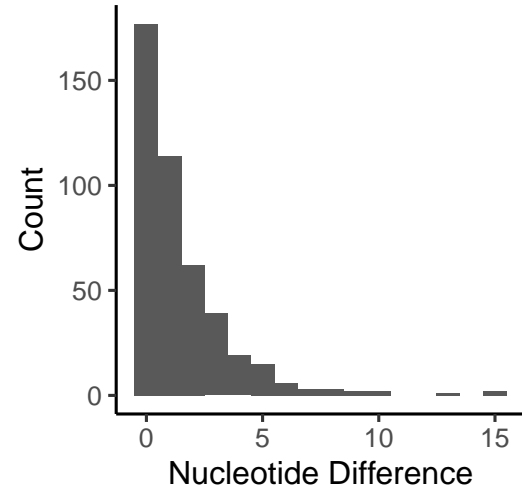
IGHV5-10-1*01

602 sequences assigned
414 (68.8%) exact matches, in which:
364 unique CDR3
6 unique J



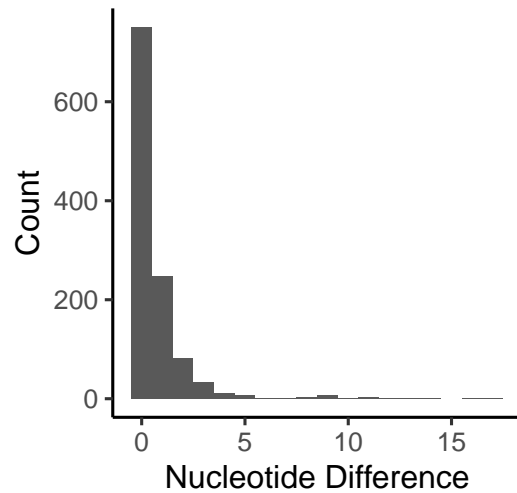
IGHV6-1*01

445 sequences assigned
177 (39.8%) exact matches, in which:
161 unique CDR3
6 unique J



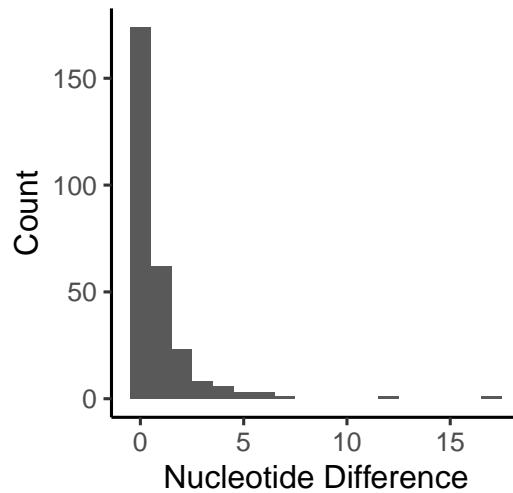
IGHV4-59*08

1161 sequences assigned
751 (64.7%) exact matches, in which:
649 unique CDR3
6 unique J



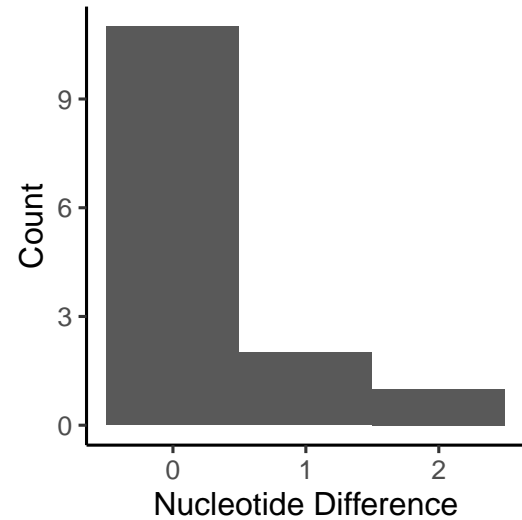
IGHV5-10-1*03

283 sequences assigned
174 (61.5%) exact matches, in which:
149 unique CDR3
6 unique J



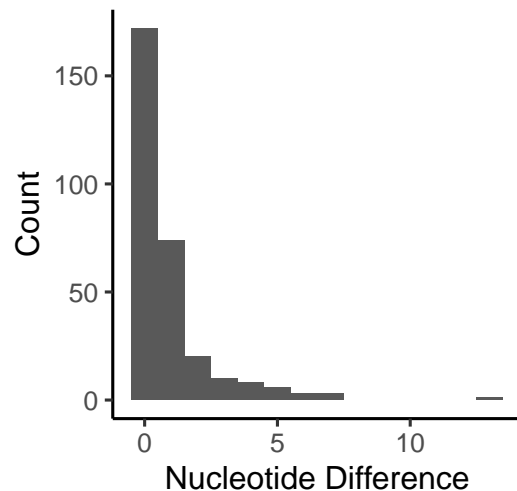
IGHV7-4-1*01

14 sequences assigned
11 (78.6%) exact matches, in which:
9 unique CDR3
3 unique J



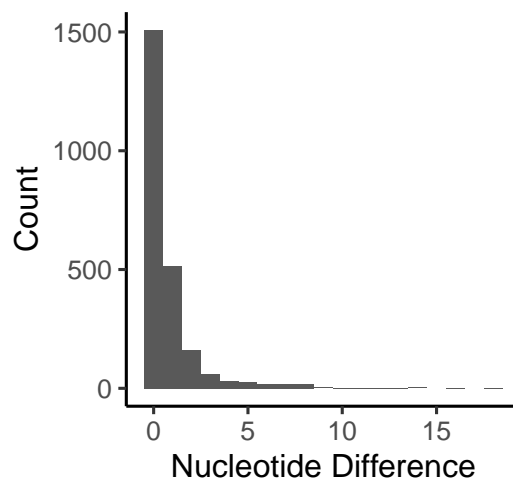
IGHV4-61*01

297 sequences assigned
172 (57.9%) exact matches, in which:
152 unique CDR3
5 unique J



IGHV5-51*01

2375 sequences assigned
1508 (63.5%) exact matches, in which:
1279 unique CDR3
6 unique J



IGHV3-13*01_G290A_T300C

