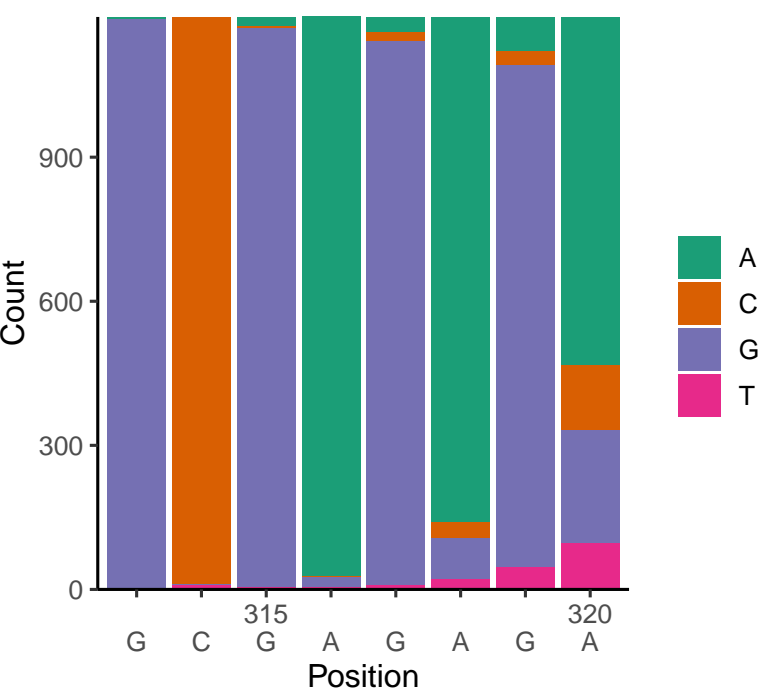
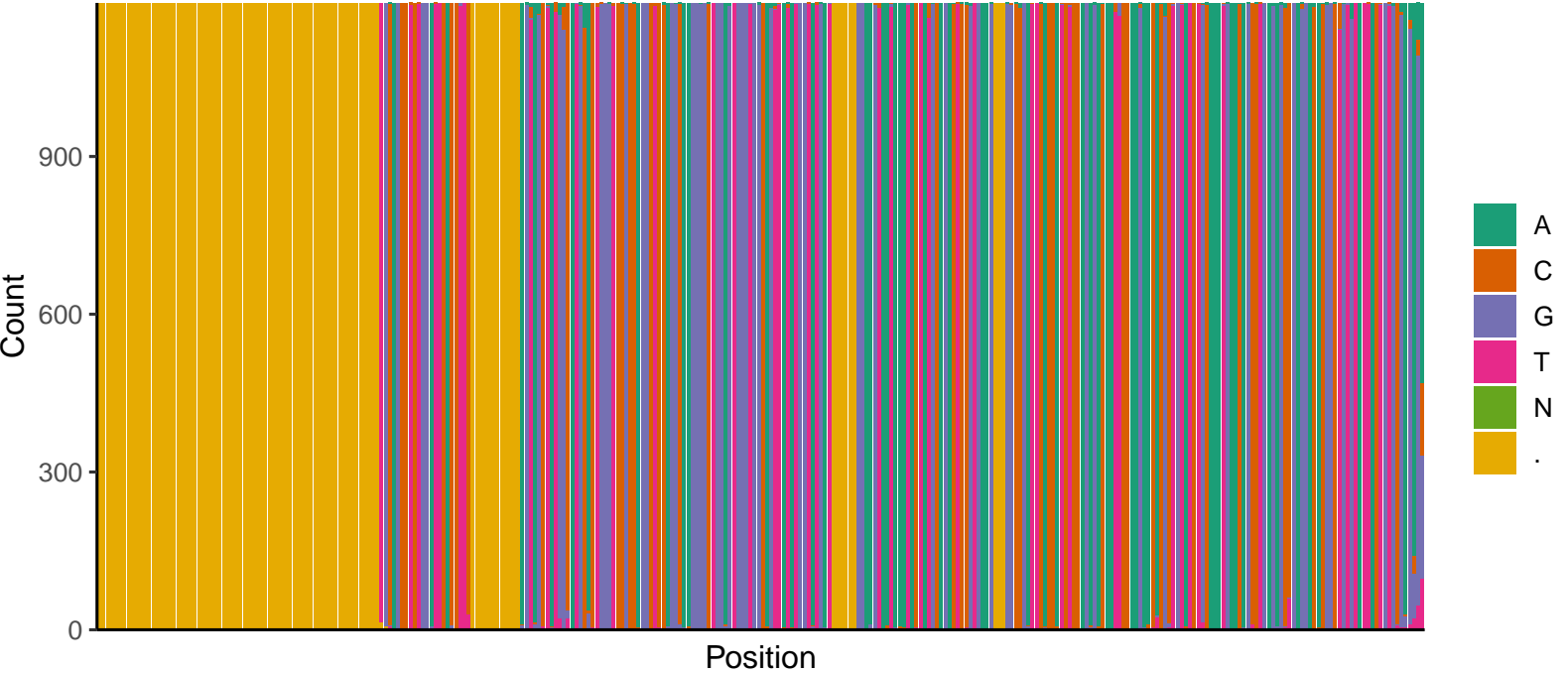


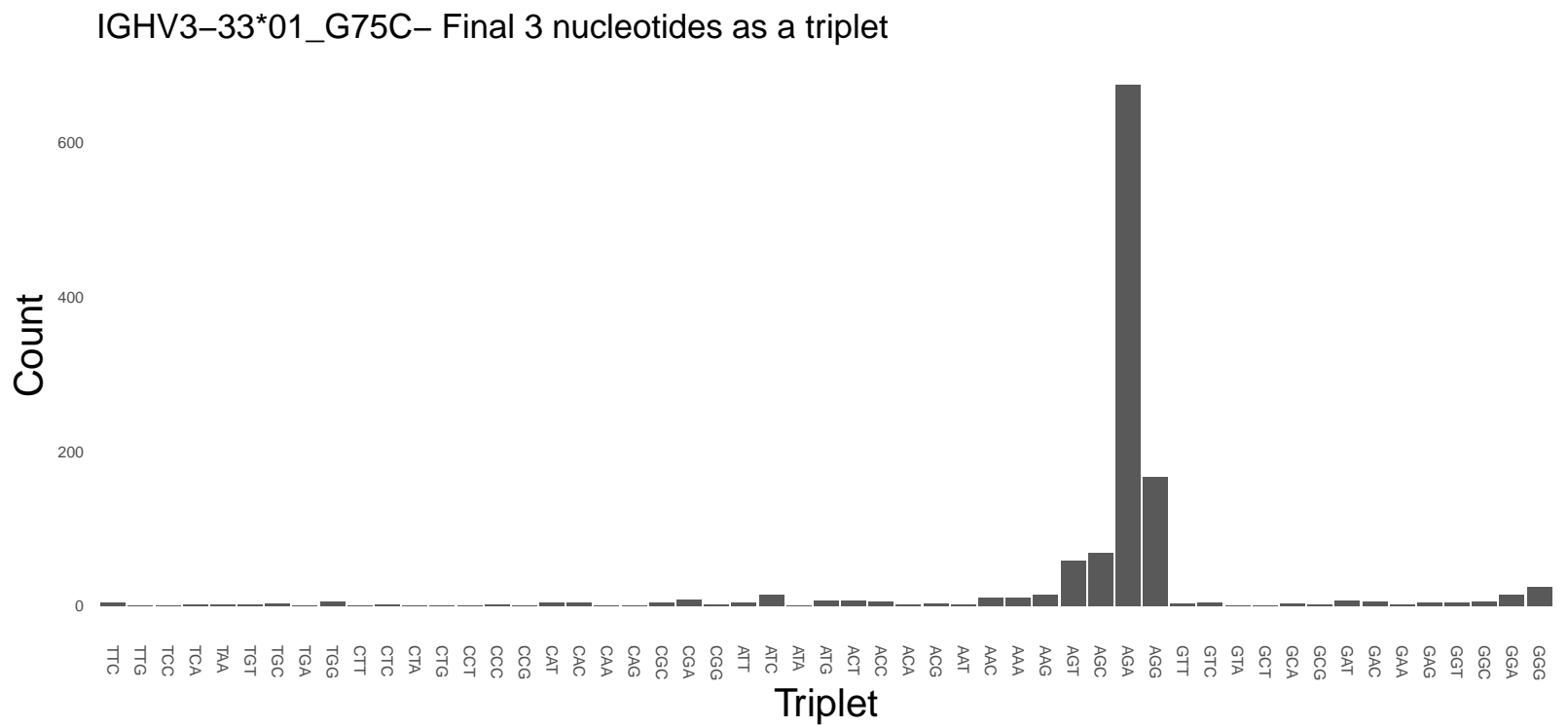
Gene IGHV3-33*01_G75C



Gene IGHV3-33*01_G75C

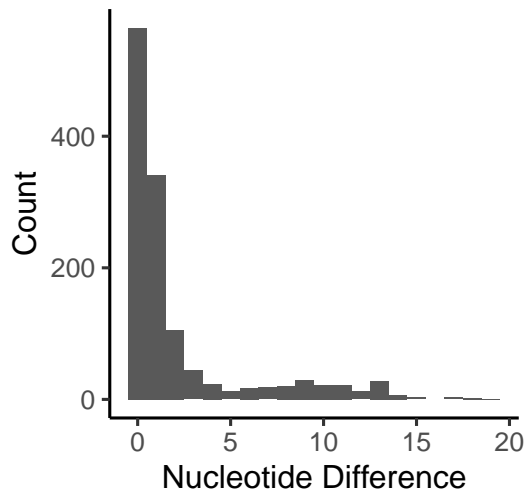


IGHV3-33*01_G75C- Final 3 nucleotides as a triplet



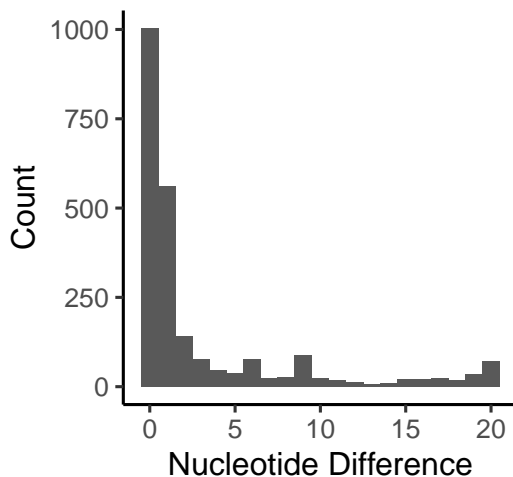
IGHV1-2*04

1286 sequences assigned
565 (43.9%) exact matches, in which:
529 unique CDR3
6 unique J



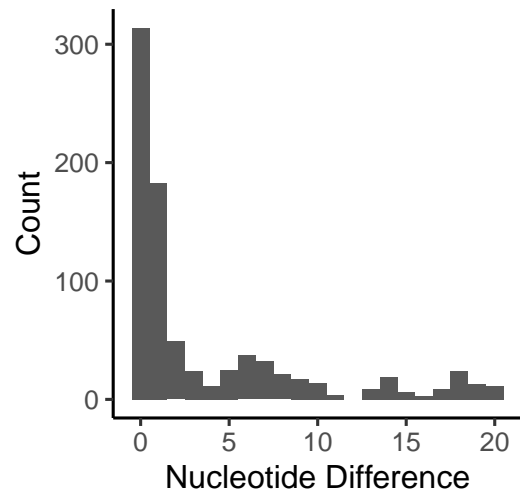
IGHV1-18*01

2418 sequences assigned
1003 (41.5%) exact matches, in which:
923 unique CDR3
6 unique J



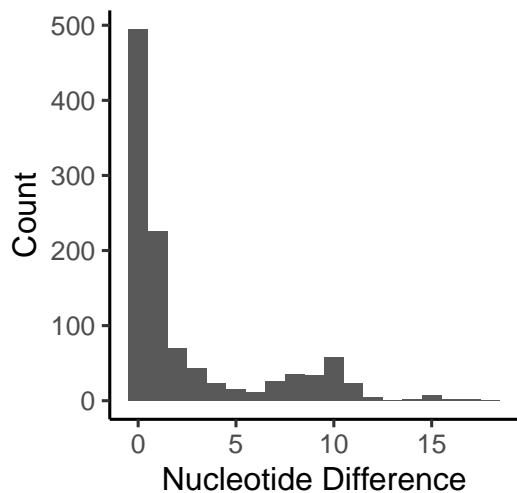
IGHV1-46*01

840 sequences assigned
314 (37.4%) exact matches, in which:
296 unique CDR3
6 unique J



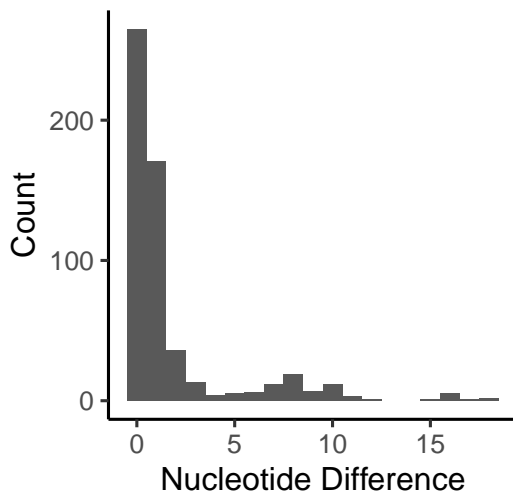
IGHV1-3*01_05

1086 sequences assigned
495 (45.6%) exact matches, in which:
463 unique CDR3
6 unique J



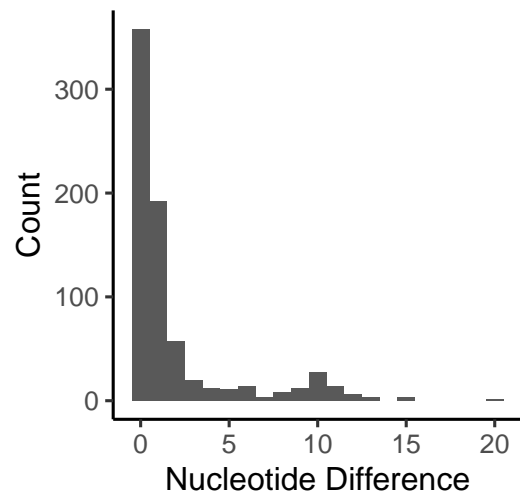
IGHV1-24*01

563 sequences assigned
265 (47.1%) exact matches, in which:
255 unique CDR3
6 unique J



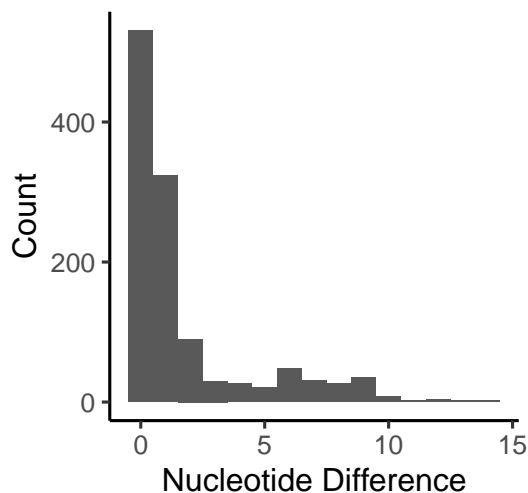
IGHV1-46*04

781 sequences assigned
358 (45.8%) exact matches, in which:
337 unique CDR3
6 unique J



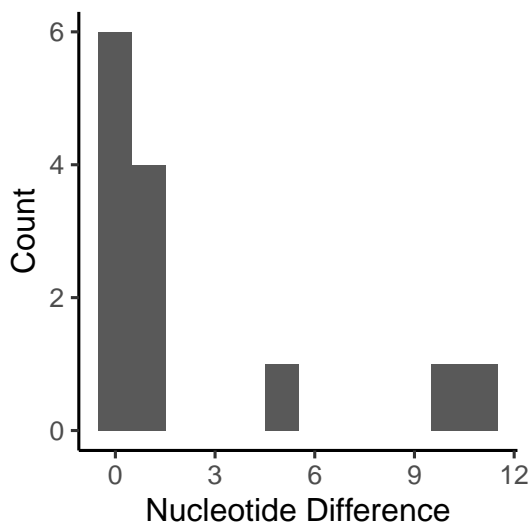
IGHV1-8*01

1182 sequences assigned
531 (44.9%) exact matches, in which:
483 unique CDR3
6 unique J



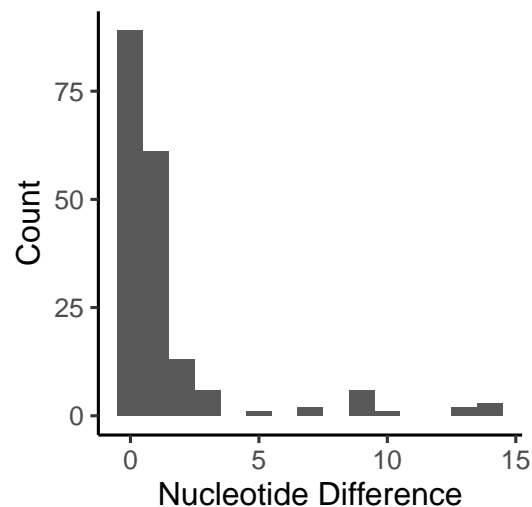
IGHV1-45*02

13 sequences assigned
6 (46.2%) exact matches, in which:
5 unique CDR3
3 unique J



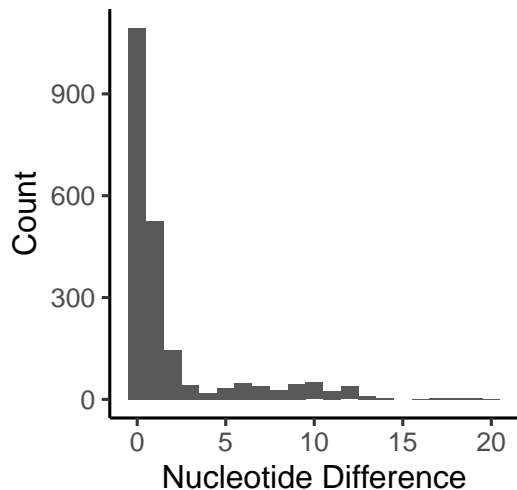
IGHV1-58*02

184 sequences assigned
89 (48.4%) exact matches, in which:
82 unique CDR3
5 unique J



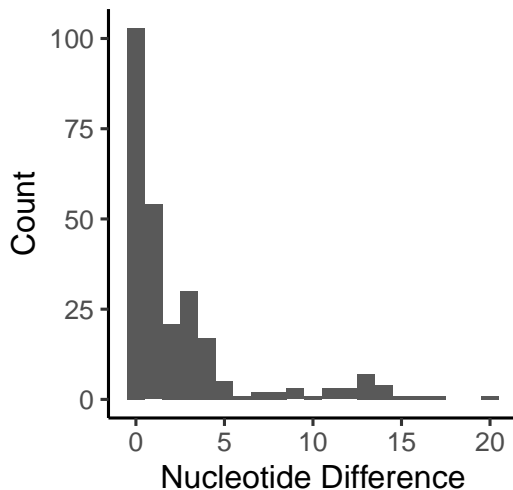
IGHV1-69*04_09

2250 sequences assigned
1095 (48.7%) exact matches, in which:
1045 unique CDR3
6 unique J



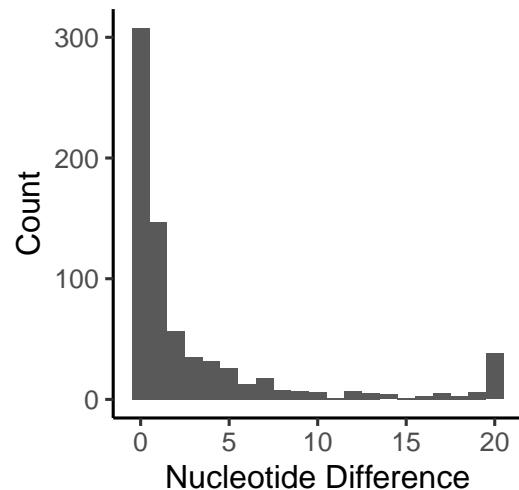
IGHV2-5*02

270 sequences assigned
103 (38.1%) exact matches, in which:
96 unique CDR3
6 unique J



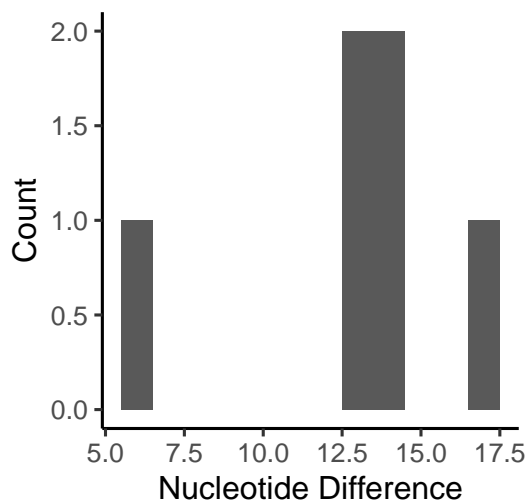
IGHV3-7*01

771 sequences assigned
308 (39.9%) exact matches, in which:
298 unique CDR3
6 unique J



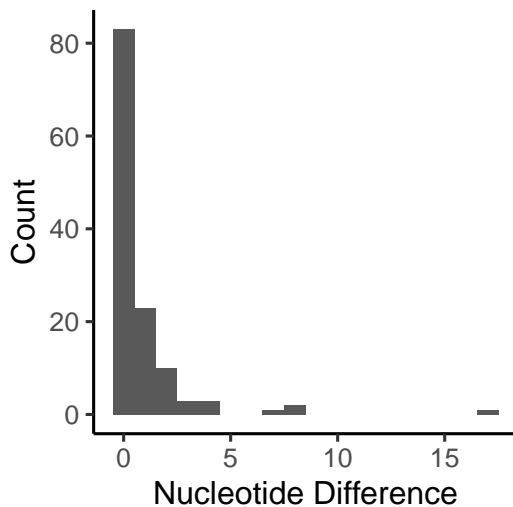
IGHV1-69D*01

6 sequences assigned
No exact matches.



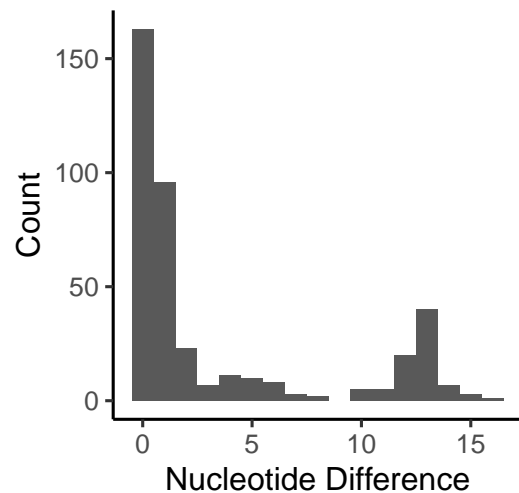
IGHV2-26*01

139 sequences assigned
83 (59.7%) exact matches, in which:
79 unique CDR3
6 unique J



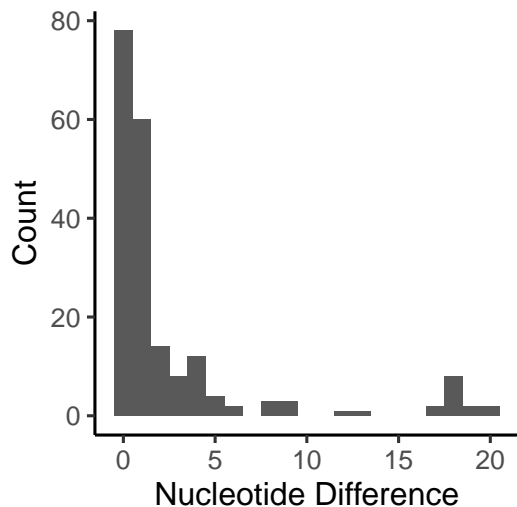
IGHV3-7*04

404 sequences assigned
163 (40.3%) exact matches, in which:
157 unique CDR3
6 unique J



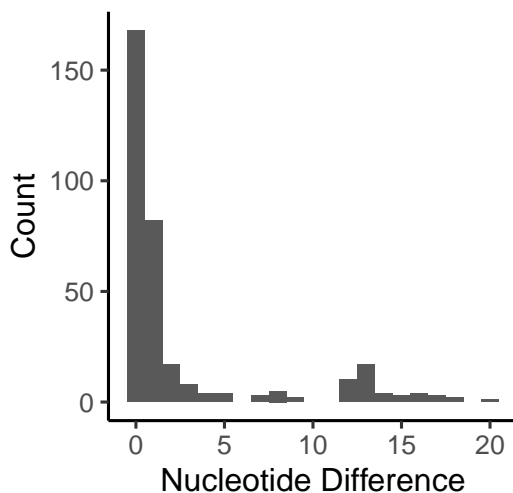
IGHV2-5*01

202 sequences assigned
78 (38.6%) exact matches, in which:
76 unique CDR3
5 unique J



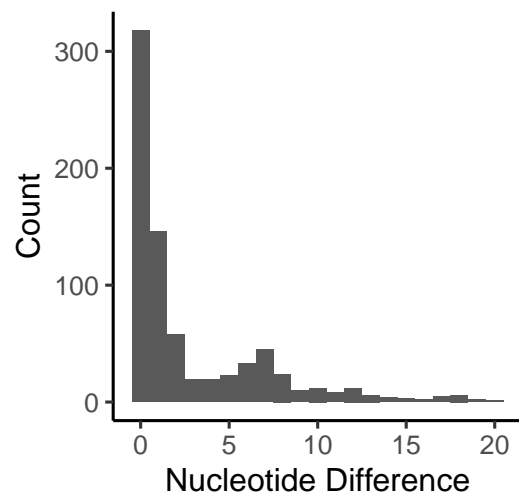
IGHV2-70*11_15

339 sequences assigned
168 (49.6%) exact matches, in which:
162 unique CDR3
6 unique J



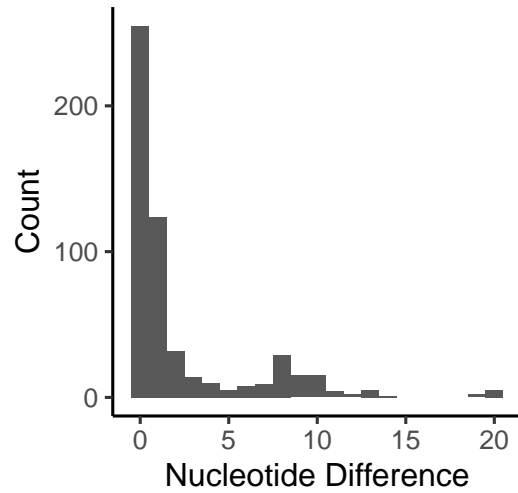
IGHV3-9*01

758 sequences assigned
318 (42%) exact matches, in which:
307 unique CDR3
6 unique J



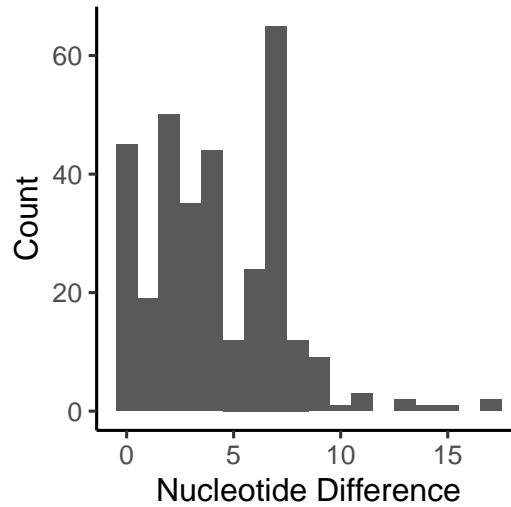
IGHV3-11*01

557 sequences assigned
255 (45.8%) exact matches, in which:
248 unique CDR3
6 unique J



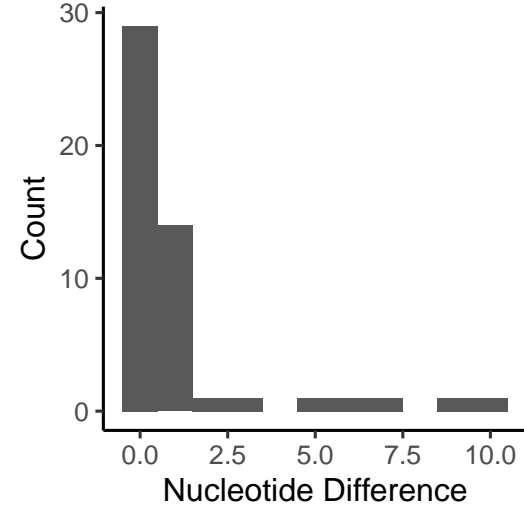
IGHV3-13*01

326 sequences assigned
45 (13.8%) exact matches, in which:
43 unique CDR3
5 unique J



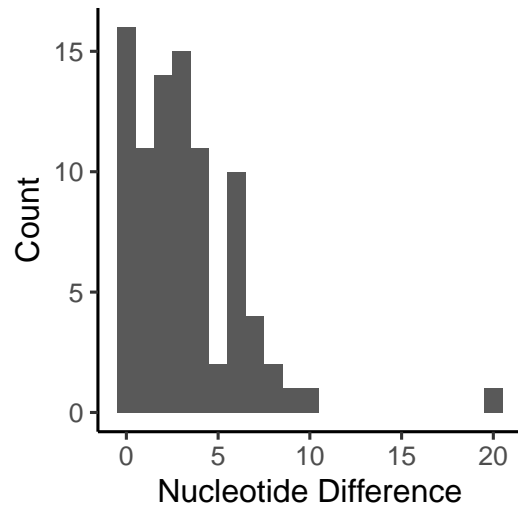
IGHV3-20*01_02

50 sequences assigned
29 (58%) exact matches, in which:
28 unique CDR3
5 unique J



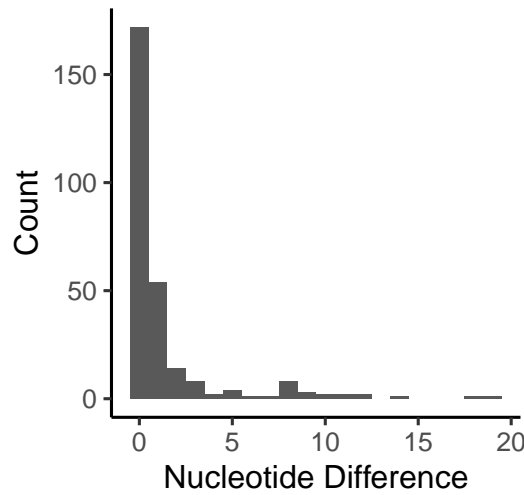
IGHV3-11*04

88 sequences assigned
16 (18.2%) exact matches, in which:
16 unique CDR3
4 unique J



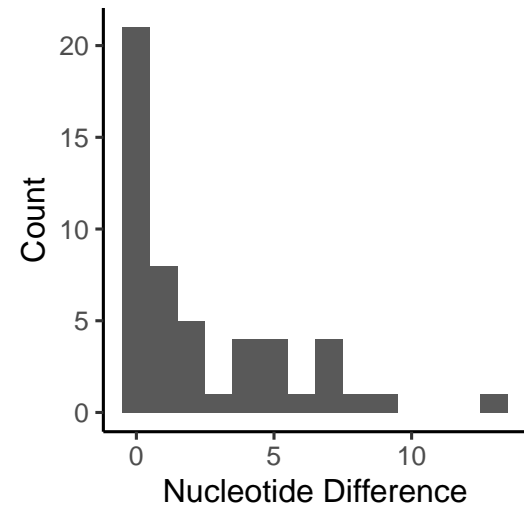
IGHV3-15*07

276 sequences assigned
172 (62.3%) exact matches, in which:
166 unique CDR3
6 unique J



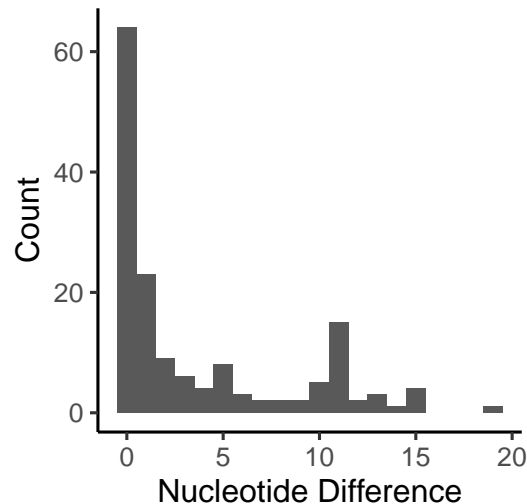
IGHV3-20*03_04

51 sequences assigned
21 (41.2%) exact matches, in which:
19 unique CDR3
3 unique J



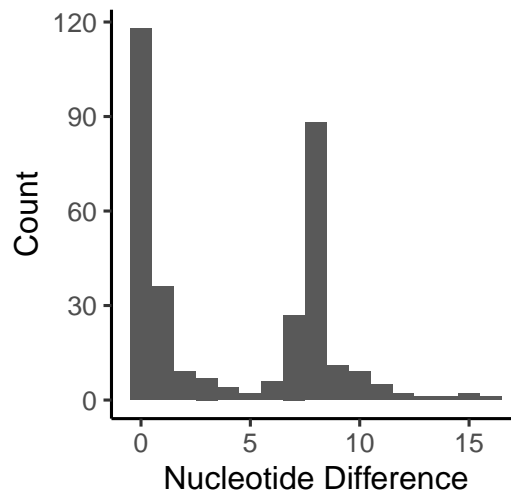
IGHV3-11*06

154 sequences assigned
64 (41.6%) exact matches, in which:
60 unique CDR3
6 unique J



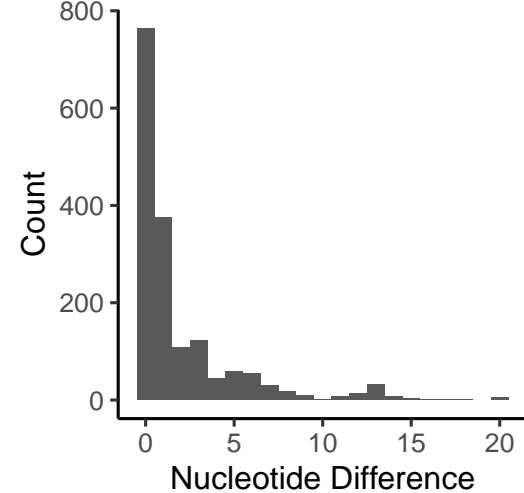
IGHV3-15*01_02

342 sequences assigned
118 (34.5%) exact matches, in which:
116 unique CDR3
6 unique J



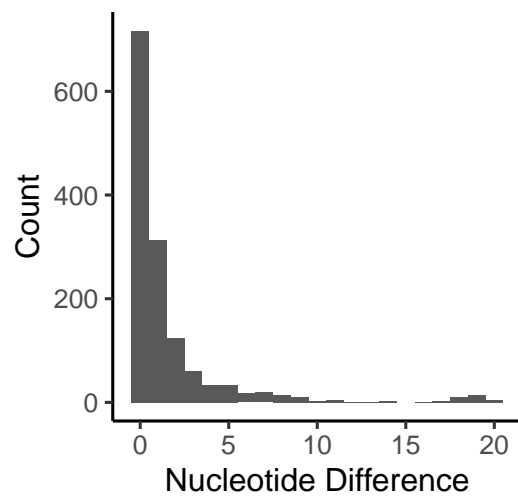
IGHV3-21*01_02

1701 sequences assigned
764 (44.9%) exact matches, in which:
716 unique CDR3
6 unique J



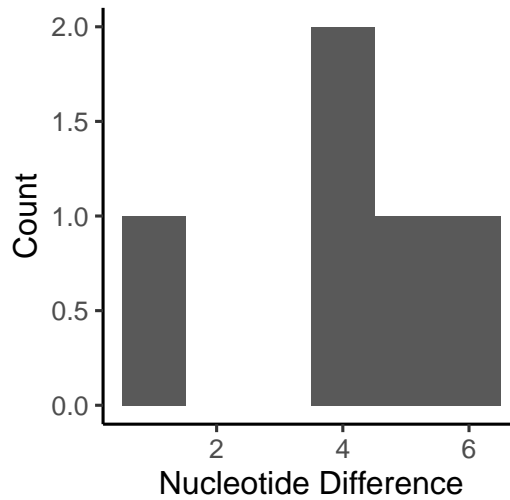
IGHV3-30-3*01

1433 sequences assigned
717 (50%) exact matches, in which:
689 unique CDR3
6 unique J



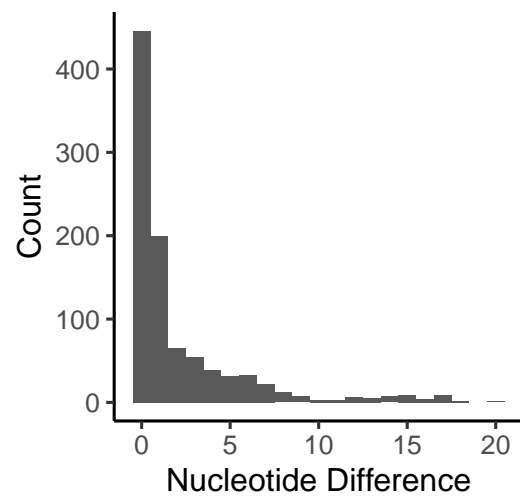
IGHV3-33*05

5 sequences assigned
No exact matches.



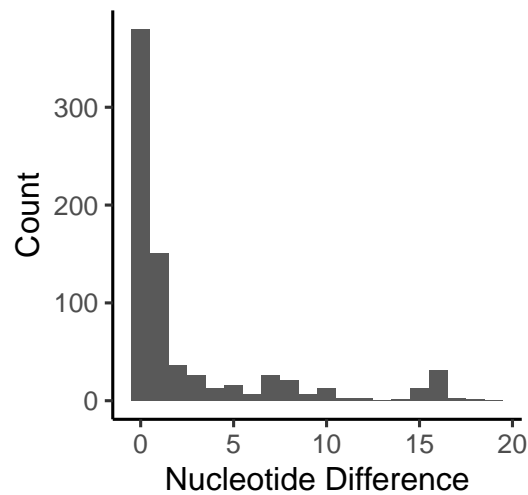
IGHV3-48*01

960 sequences assigned
446 (46.5%) exact matches, in which:
414 unique CDR3
6 unique J



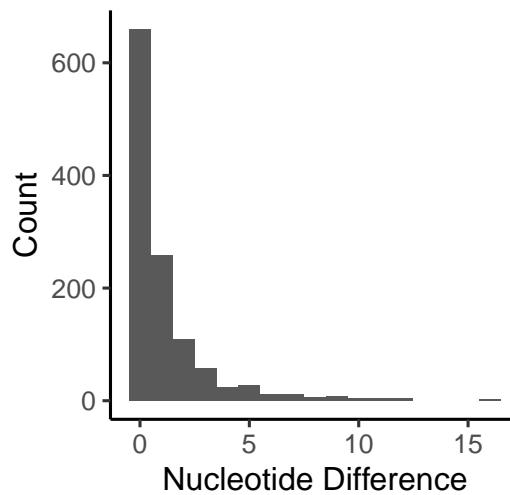
IGHV3-30*03

761 sequences assigned
380 (49.9%) exact matches, in which:
365 unique CDR3
6 unique J



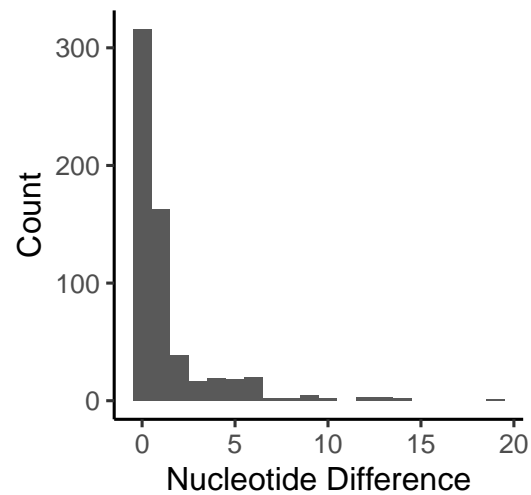
IGHV3-33*01_G75C

1192 sequences assigned
660 (55.4%) exact matches, in which:
641 unique CDR3
6 unique J



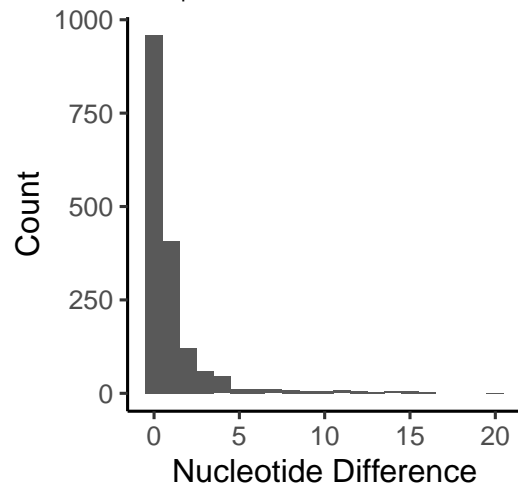
IGHV3-48*02

619 sequences assigned
316 (51.1%) exact matches, in which:
293 unique CDR3
6 unique J



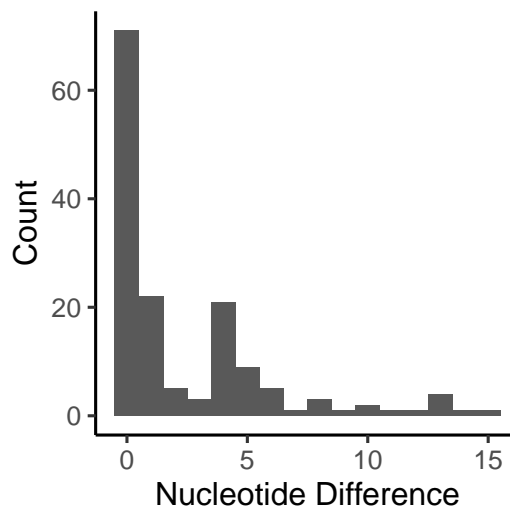
IGHV3-33*01

1681 sequences assigned
959 (57%) exact matches, in which:
918 unique CDR3
6 unique J



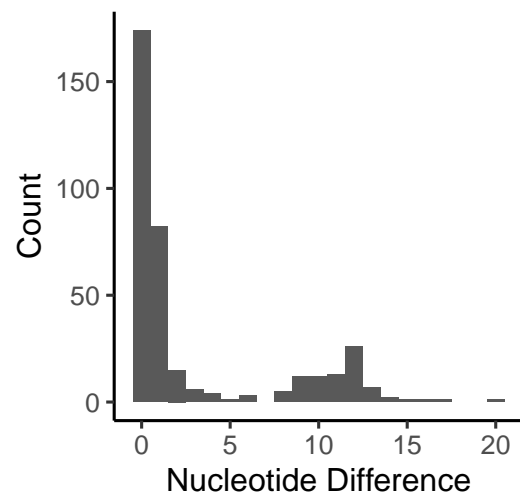
IGHV3-43*01

151 sequences assigned
71 (47%) exact matches, in which:
69 unique CDR3
5 unique J



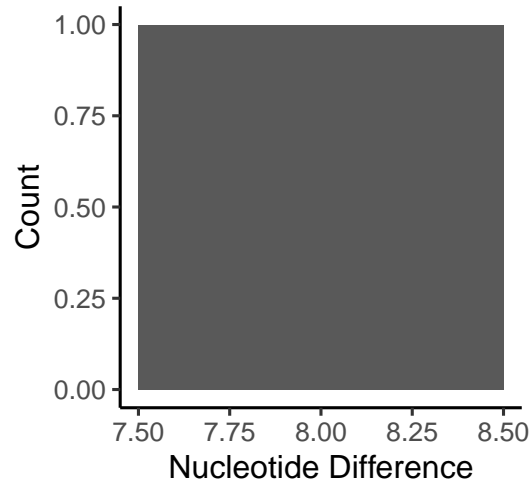
IGHV3-49*03_05

393 sequences assigned
174 (44.3%) exact matches, in which:
167 unique CDR3
6 unique J



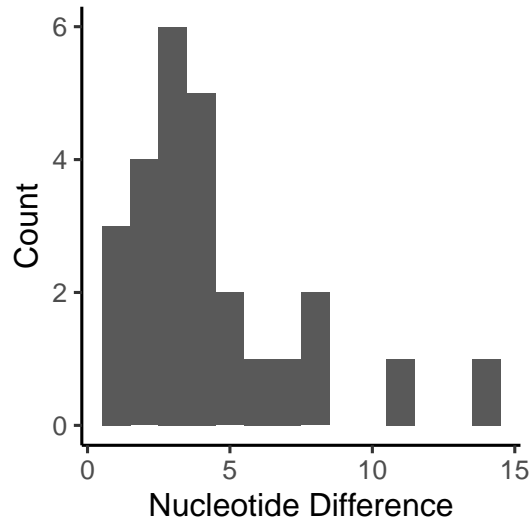
IGHV3-52*01_03

1 sequences assigned
No exact matches.



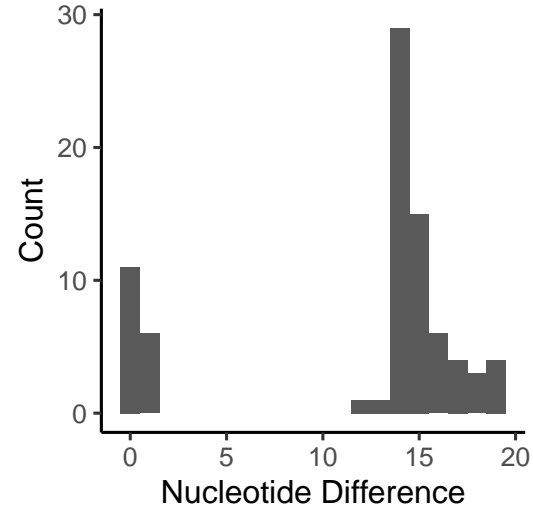
IGHV3-64*04

26 sequences assigned
No exact matches.



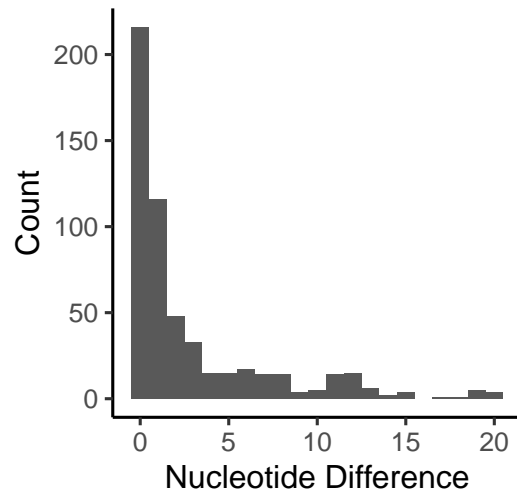
IGHV3-72*01

86 sequences assigned
11 (12.8%) exact matches, in which:
11 unique CDR3
2 unique J



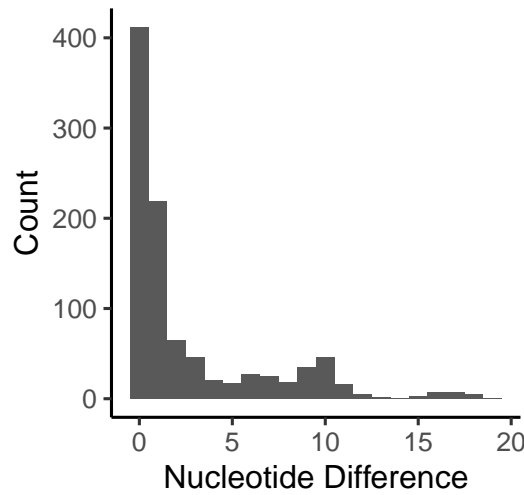
IGHV3-53*01_02

570 sequences assigned
216 (37.9%) exact matches, in which:
204 unique CDR3
6 unique J



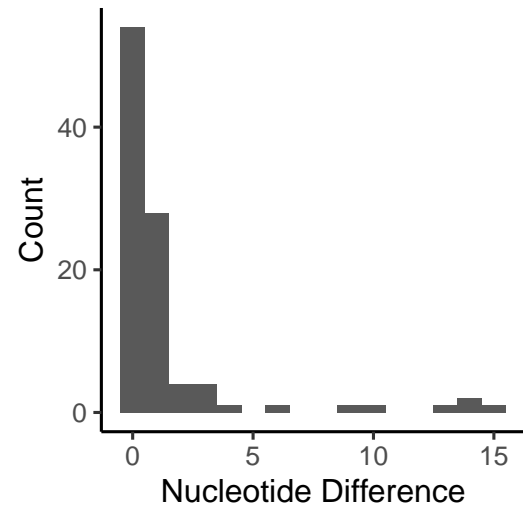
IGHV3-66*01

978 sequences assigned
412 (42.1%) exact matches, in which:
394 unique CDR3
6 unique J



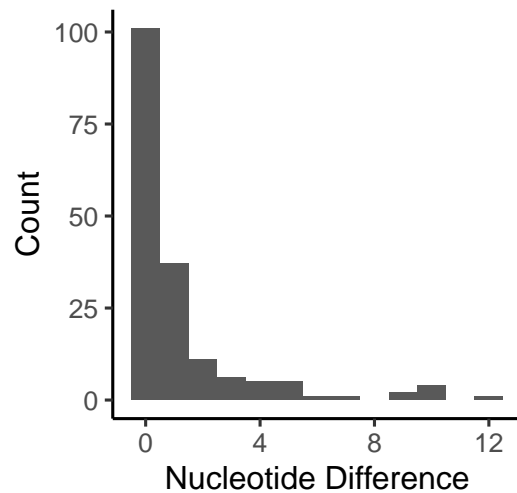
IGHV3-73*01_02

98 sequences assigned
54 (55.1%) exact matches, in which:
52 unique CDR3
5 unique J



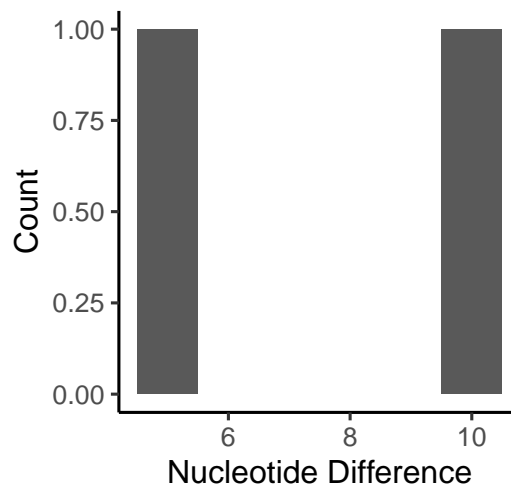
IGHV3-64*01

174 sequences assigned
101 (58%) exact matches, in which:
94 unique CDR3
6 unique J



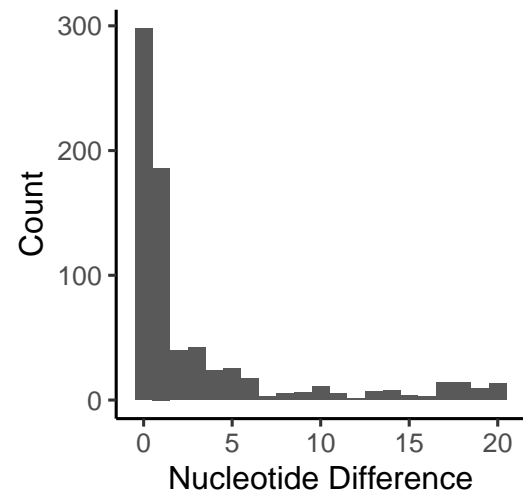
IGHV3-69-1*01

2 sequences assigned
No exact matches.



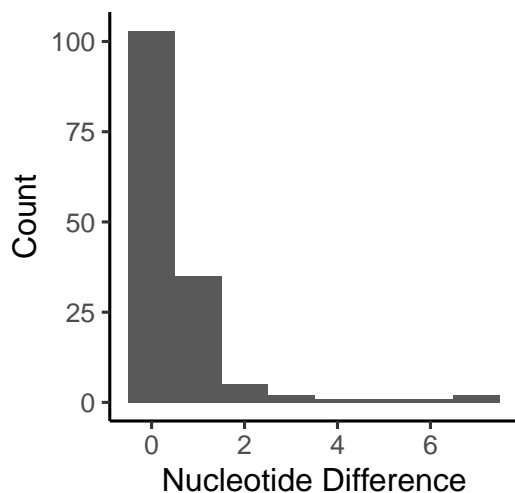
IGHV3-74*01_02

756 sequences assigned
298 (39.4%) exact matches, in which:
278 unique CDR3
6 unique J



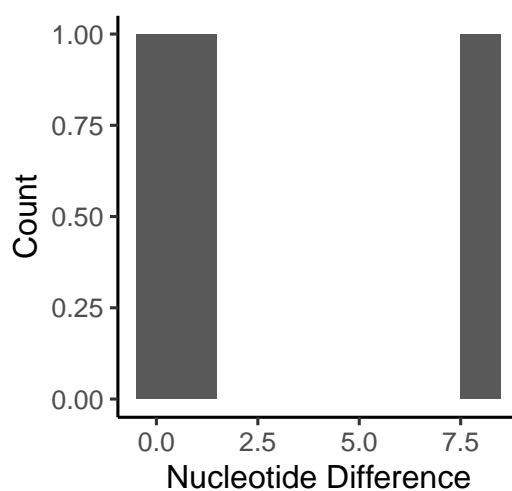
IGHV3–64D*06

150 sequences assigned
103 (68.7%) exact matches, in which:
91 unique CDR3
4 unique J



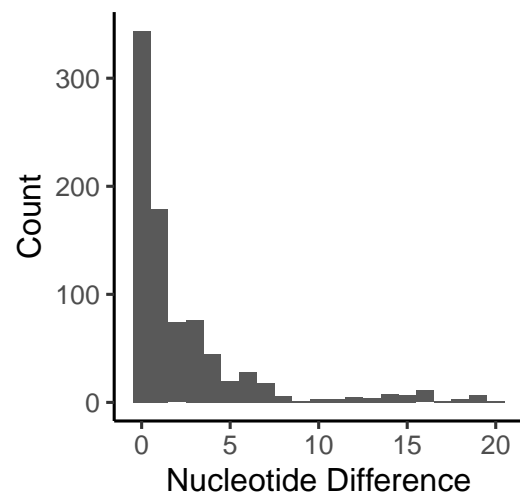
IGHV4–28*01_07

10 sequences assigned
1 (10%) exact matches, in which:
1 unique CDR3
1 unique J



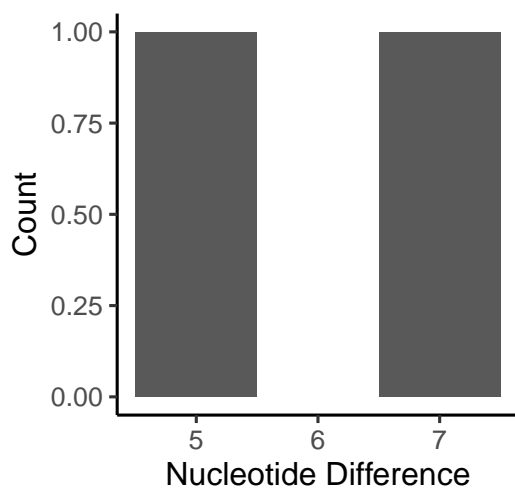
IGHV4–31*03_04

868 sequences assigned
344 (39.6%) exact matches, in which:
328 unique CDR3
6 unique J



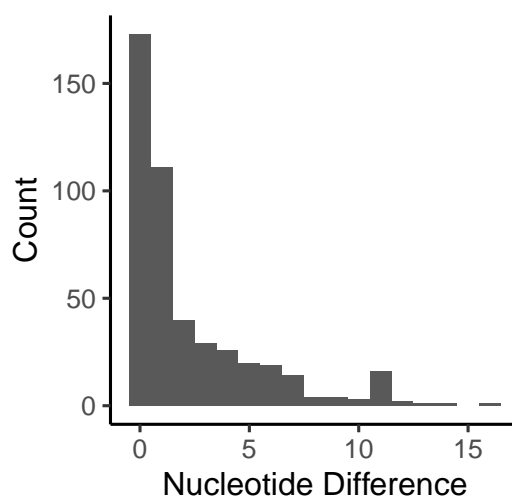
IGHV3–NL1*01

2 sequences assigned
No exact matches.



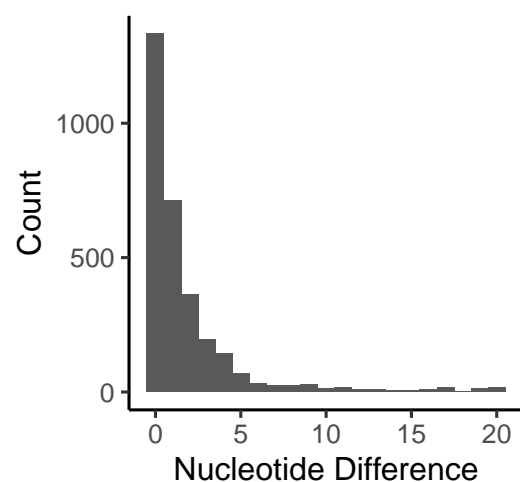
IGHV4–30–4*01

464 sequences assigned
173 (37.3%) exact matches, in which:
168 unique CDR3
5 unique J



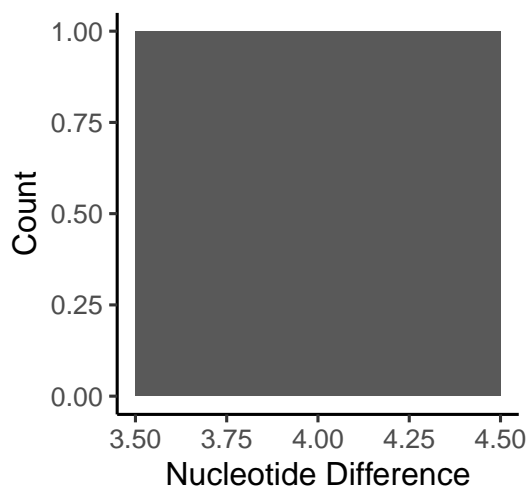
IGHV4–34*01_02

3060 sequences assigned
1333 (43.6%) exact matches, in which:
1215 unique CDR3
6 unique J



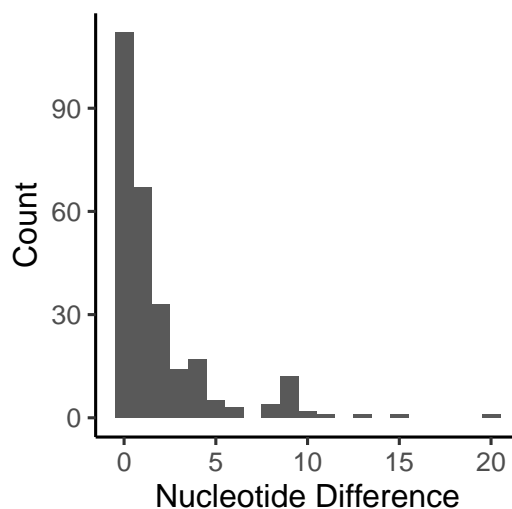
IGHV4–28*03

1 sequences assigned
No exact matches.



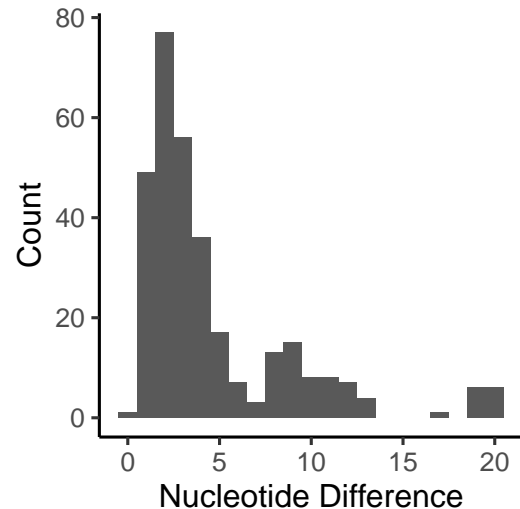
IGHV4–30–2*01

274 sequences assigned
112 (40.9%) exact matches, in which:
94 unique CDR3
6 unique J



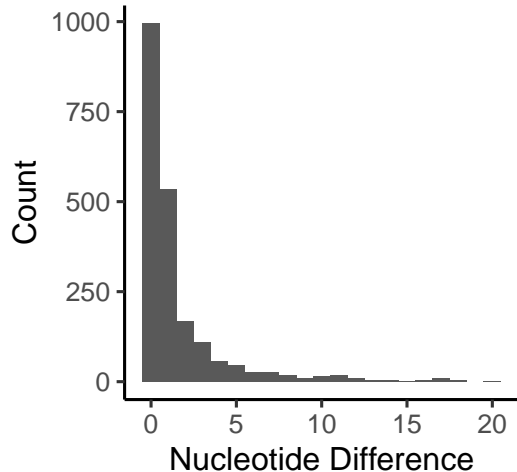
IGHV4–39*07

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



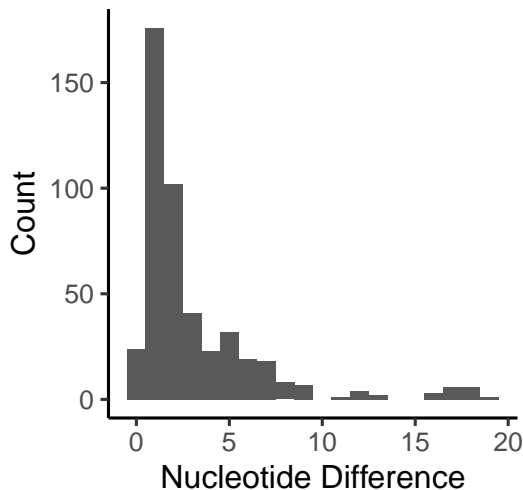
IGHV4-39*01_05

2121 sequences assigned
995 (46.9%) exact matches, in which:
900 unique CDR3
6 unique J



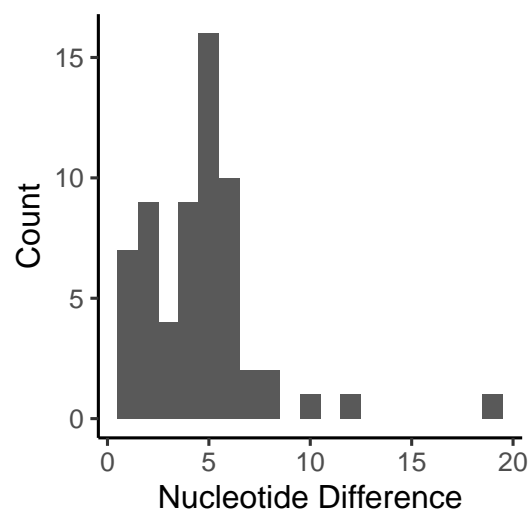
IGHV4-59*12

491 sequences assigned
24 (4.9%) exact matches, in which:
24 unique CDR3
4 unique J



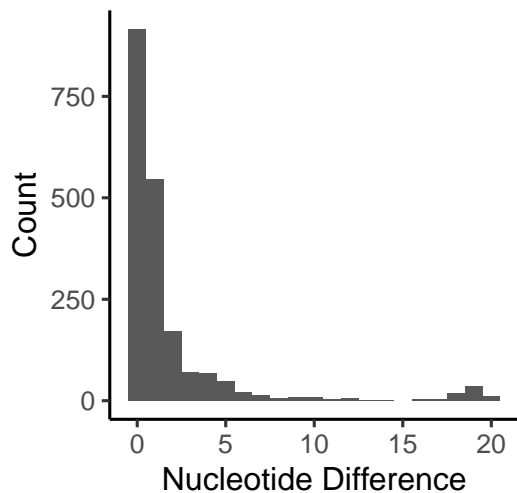
IGHV4-61*08

62 sequences assigned
No exact matches.



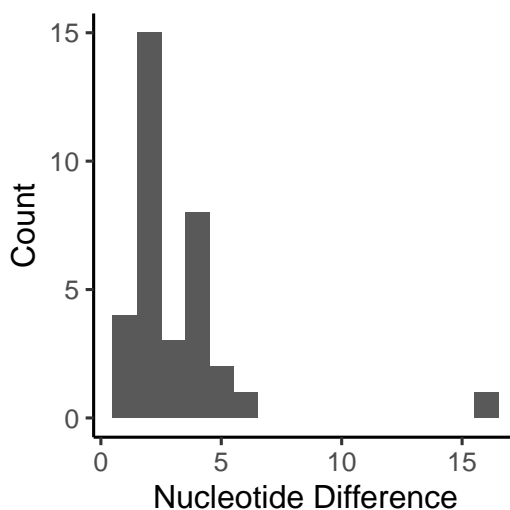
IGHV4-59*08

2158 sequences assigned
916 (42.4%) exact matches, in which:
854 unique CDR3
6 unique J



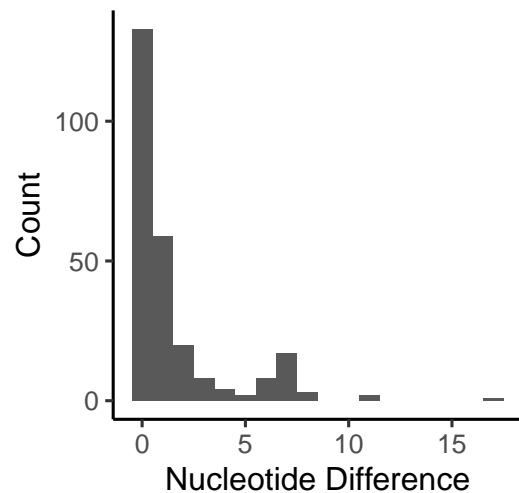
IGHV4-61*01

34 sequences assigned
No exact matches.



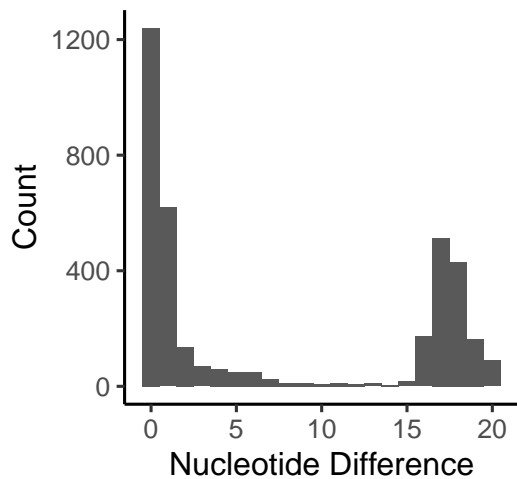
IGHV5-10-1*01_03

257 sequences assigned
133 (51.8%) exact matches, in which:
121 unique CDR3
6 unique J



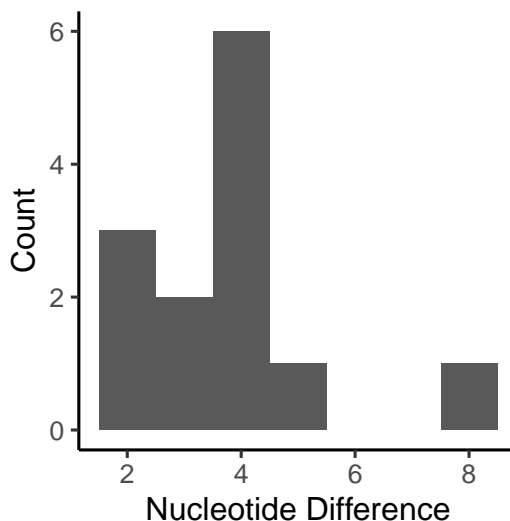
IGHV4-59*01_07

3930 sequences assigned
1240 (31.6%) exact matches, in which:
1150 unique CDR3
6 unique J



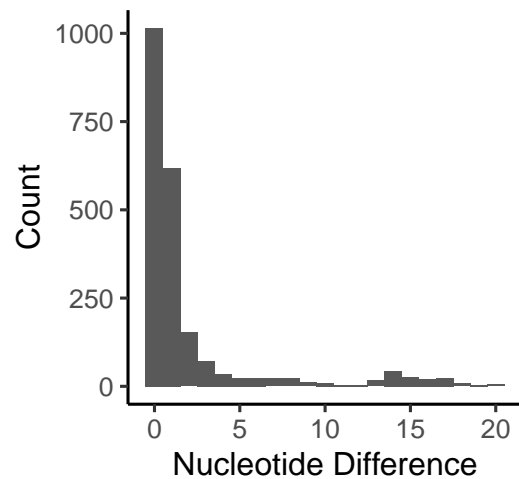
IGHV4-61*05

13 sequences assigned
No exact matches.



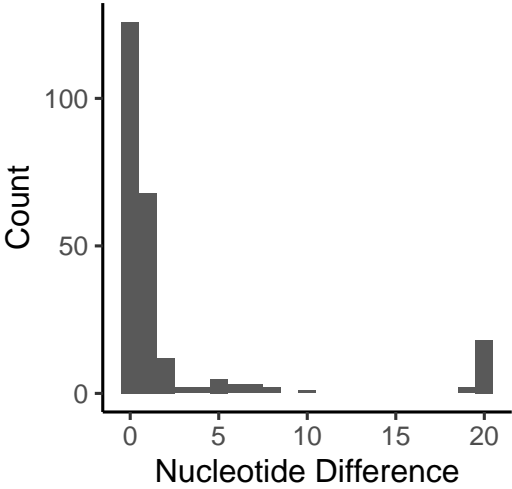
IGHV5-51*01_03

2158 sequences assigned
1015 (47%) exact matches, in which:
914 unique CDR3
6 unique J



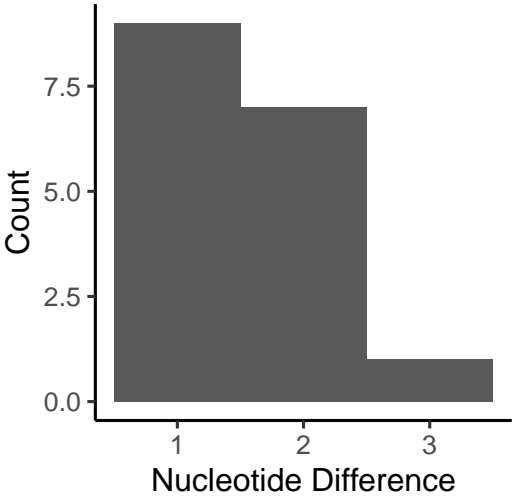
IGHV6-1*01_02

253 sequences assigned
126 (49.8%) exact matches, in which:
116 unique CDR3
6 unique J



IGHV7-4-1*01

17 sequences assigned
No exact matches.





Novel sequence(s)IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV5-51*07_A128G are not listed in the genotype and will be ignored.