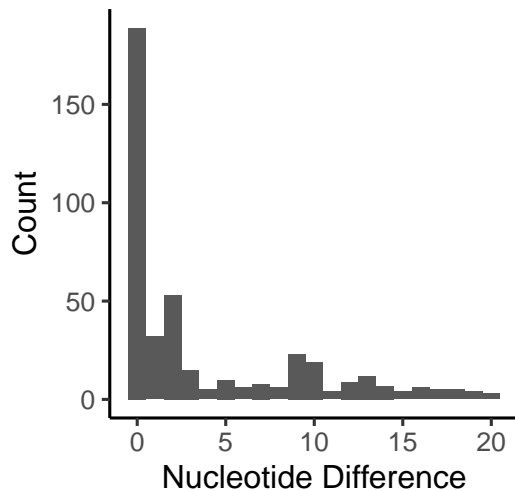


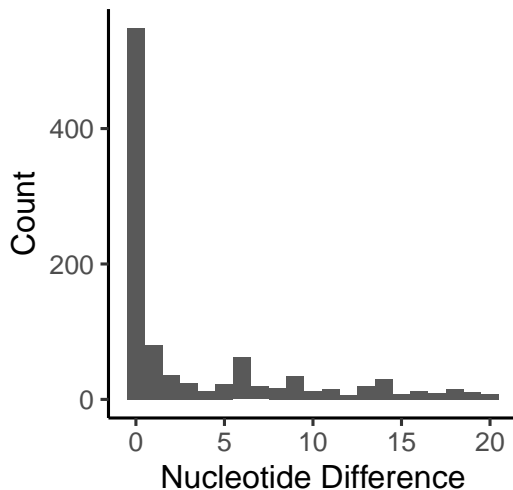
IGHV1-2*02

446 sequences assigned
189 (42.4%) exact matches, in which:
179 unique CDR3
6 unique J



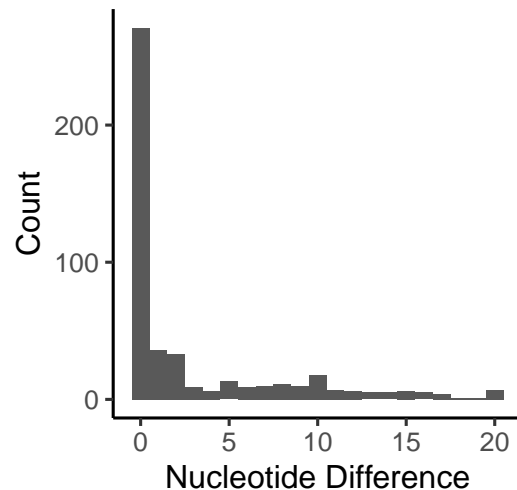
IGHV1-18*01

1075 sequences assigned
549 (51.1%) exact matches, in which:
525 unique CDR3
6 unique J



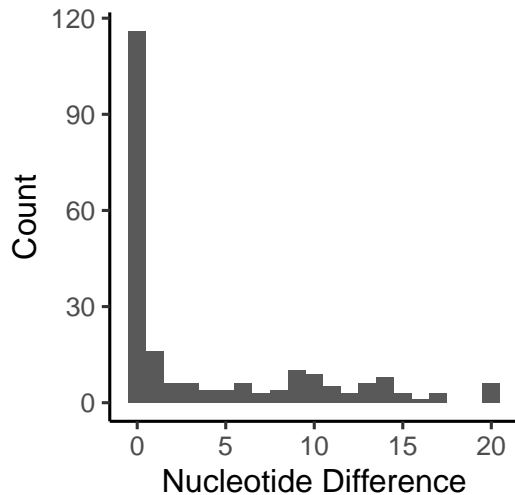
IGHV1-46*01

530 sequences assigned
271 (51.1%) exact matches, in which:
265 unique CDR3
5 unique J



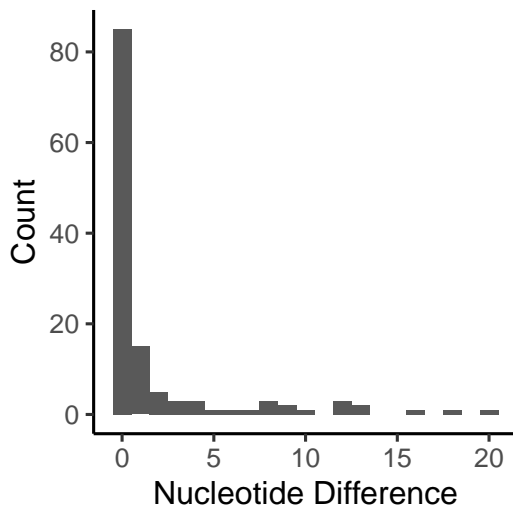
IGHV1-3*01_05

245 sequences assigned
116 (47.3%) exact matches, in which:
114 unique CDR3
5 unique J



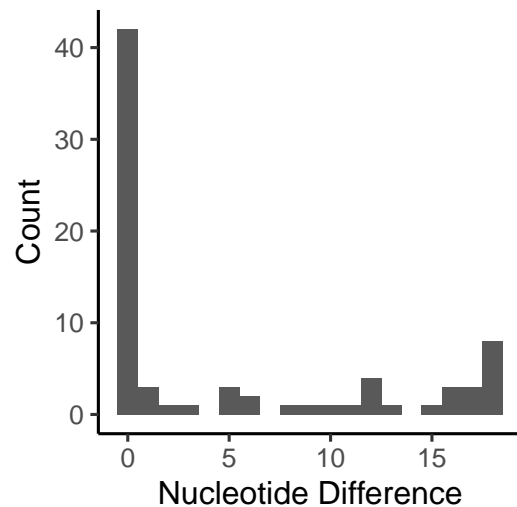
IGHV1-24*01

130 sequences assigned
85 (65.4%) exact matches, in which:
83 unique CDR3
6 unique J



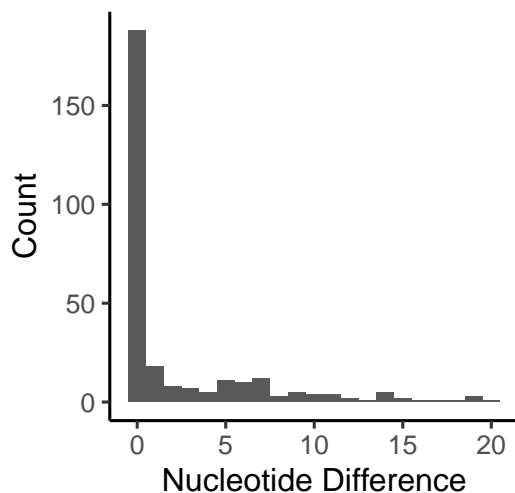
IGHV1-58*01_03

86 sequences assigned
42 (48.8%) exact matches, in which:
38 unique CDR3
5 unique J



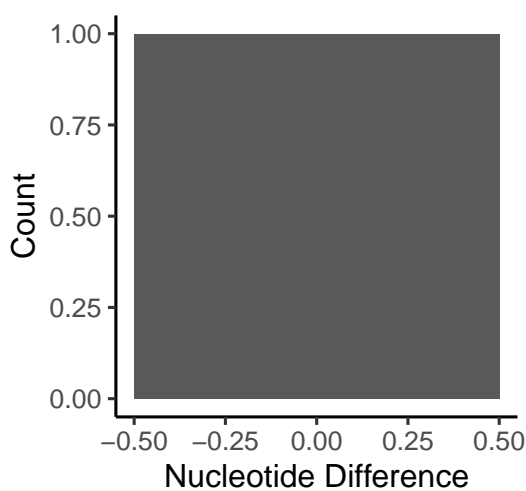
IGHV1-8*01

305 sequences assigned
188 (61.6%) exact matches, in which:
181 unique CDR3
5 unique J



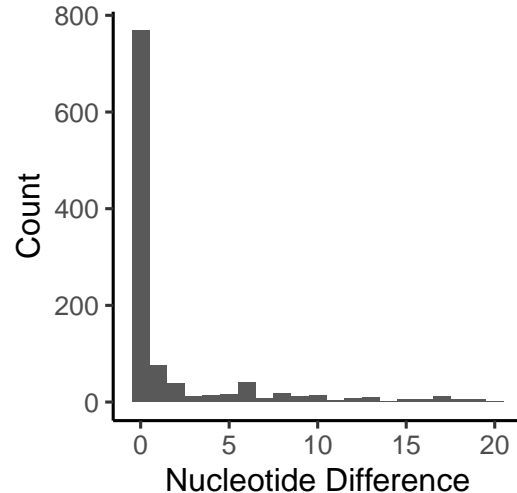
IGHV1-45*02

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



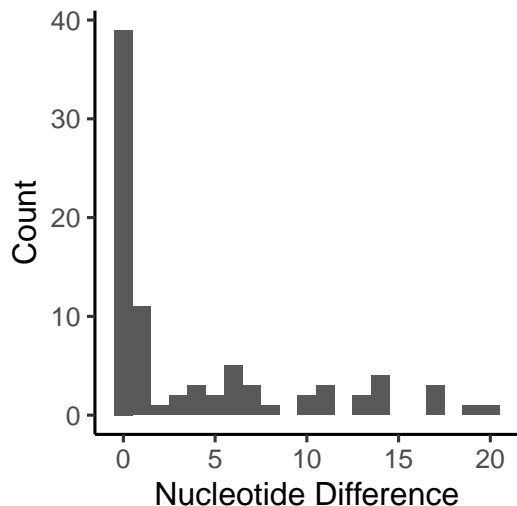
IGHV1-69*01_12_13

1178 sequences assigned
769 (65.3%) exact matches, in which:
757 unique CDR3
6 unique J



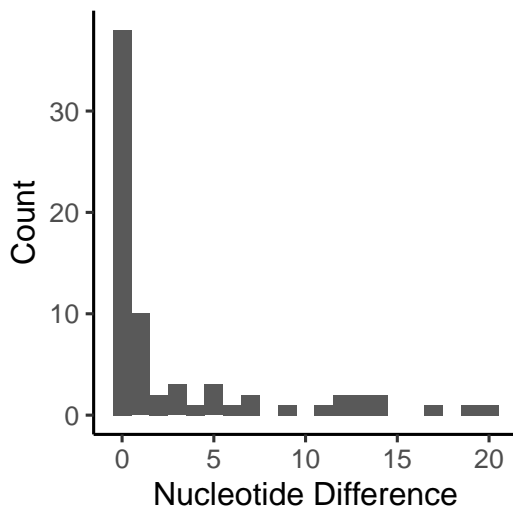
IGHV2-5*01

89 sequences assigned
39 (43.8%) exact matches, in which:
39 unique CDR3
4 unique J



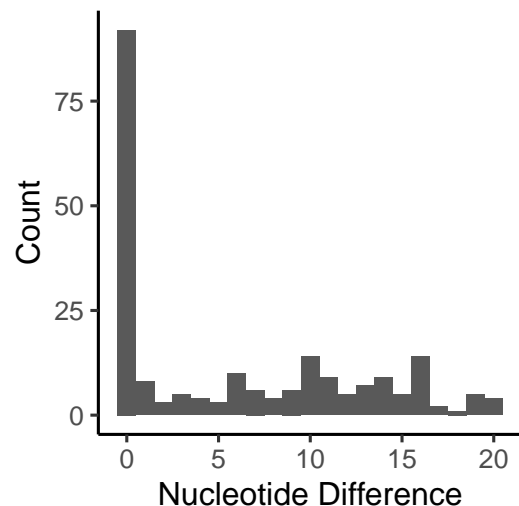
IGHV2-70*01

96 sequences assigned
38 (39.6%) exact matches, in which:
38 unique CDR3
4 unique J



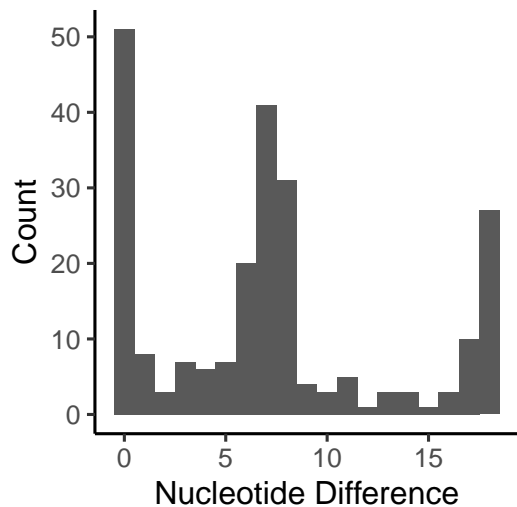
IGHV3-7*05

281 sequences assigned
92 (32.7%) exact matches, in which:
53 unique CDR3
5 unique J



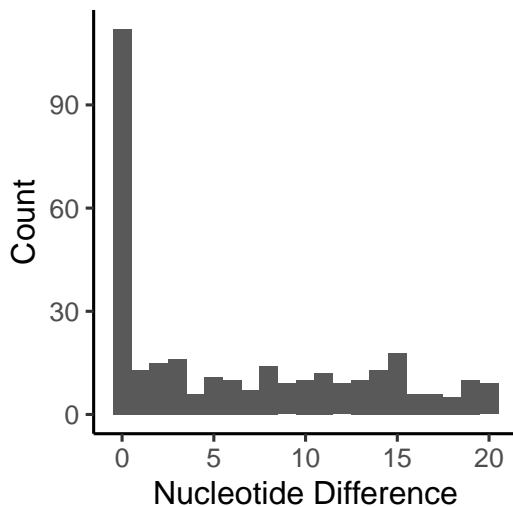
IGHV2-5*02

236 sequences assigned
51 (21.6%) exact matches, in which:
51 unique CDR3
5 unique J



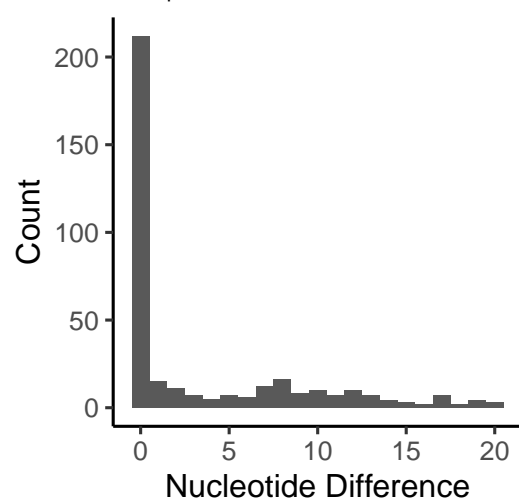
IGHV3-7*01

375 sequences assigned
112 (29.9%) exact matches, in which:
67 unique CDR3
6 unique J



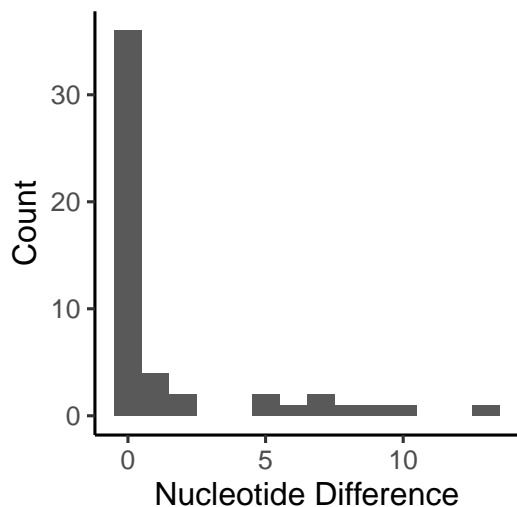
IGHV3-9*01

375 sequences assigned
212 (56.5%) exact matches, in which:
125 unique CDR3
6 unique J



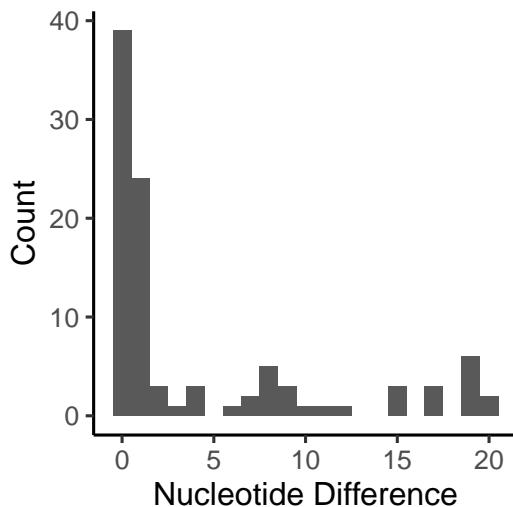
IGHV2-26*01

74 sequences assigned
36 (48.6%) exact matches, in which:
35 unique CDR3
4 unique J



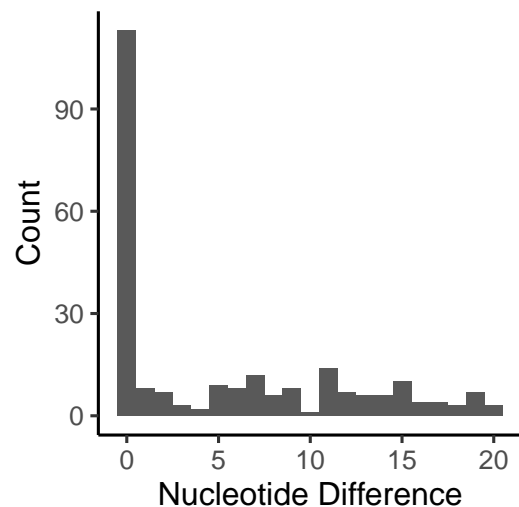
IGHV3-7*03

117 sequences assigned
39 (33.3%) exact matches, in which:
25 unique CDR3
3 unique J



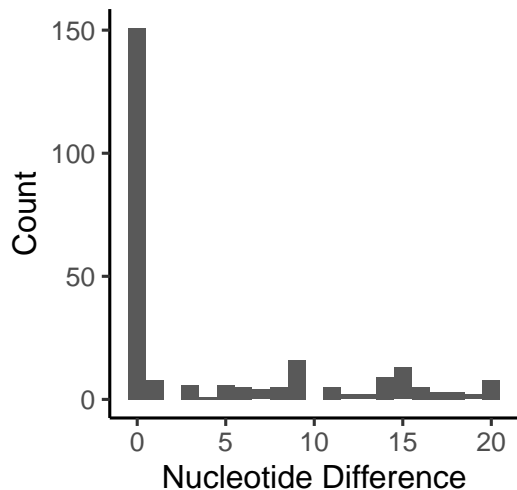
IGHV3-11*01

262 sequences assigned
113 (43.1%) exact matches, in which:
76 unique CDR3
4 unique J



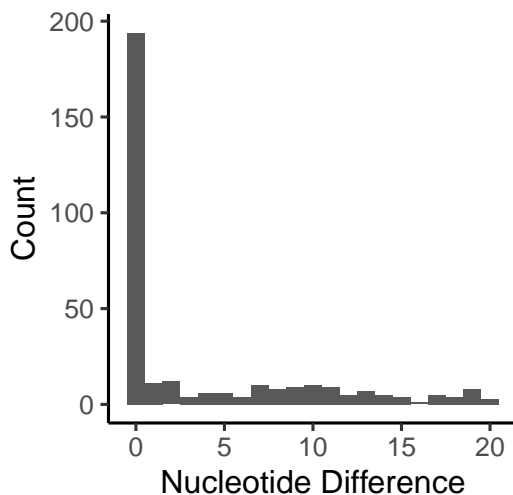
IGHV3-11*06_T300C

302 sequences assigned
151 (50%) exact matches, in which:
92 unique CDR3
5 unique J



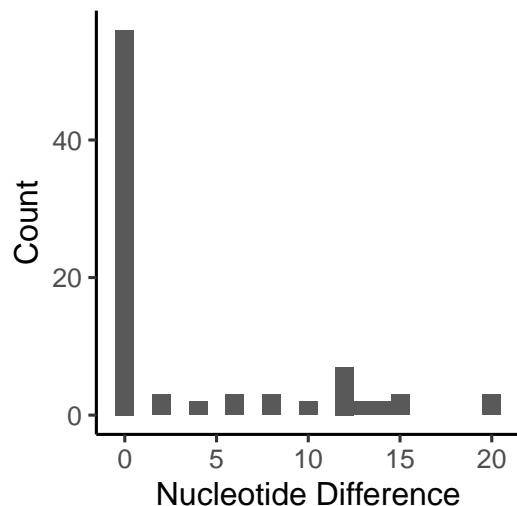
IGHV3-15*01_02

470 sequences assigned
194 (41.3%) exact matches, in which:
126 unique CDR3
4 unique J



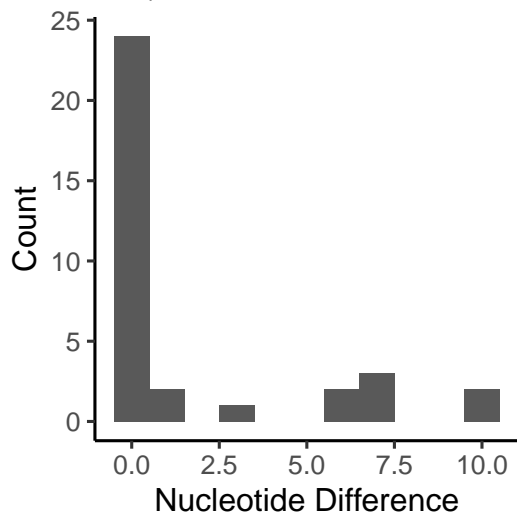
IGHV3-20*03_04

99 sequences assigned
56 (56.6%) exact matches, in which:
35 unique CDR3
5 unique J



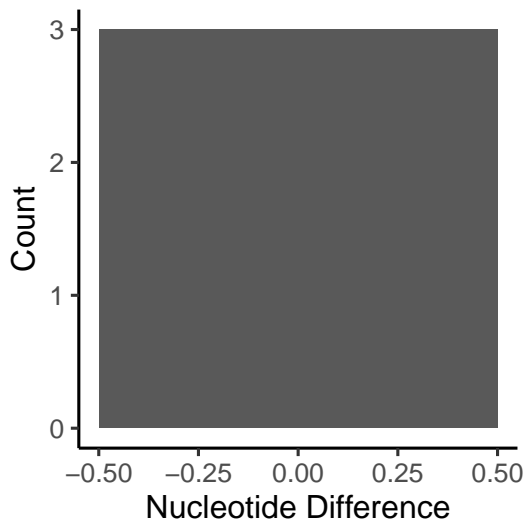
IGHV3-13*01

35 sequences assigned
24 (68.6%) exact matches, in which:
14 unique CDR3
4 unique J



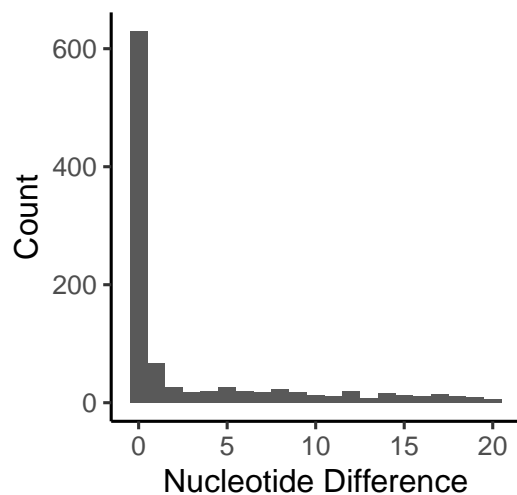
IGHV3-19*01

3 sequences assigned
3 (100%) exact matches, in which:
2 unique CDR3
1 unique J



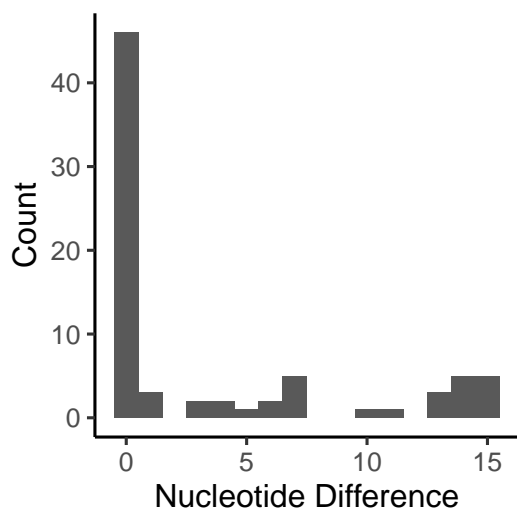
IGHV3-21*01_02

1438 sequences assigned
630 (43.8%) exact matches, in which:
385 unique CDR3
6 unique J



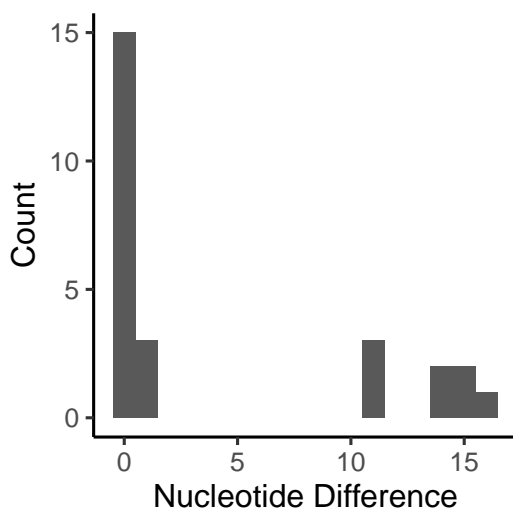
IGHV3-13*04

83 sequences assigned
46 (55.4%) exact matches, in which:
24 unique CDR3
4 unique J



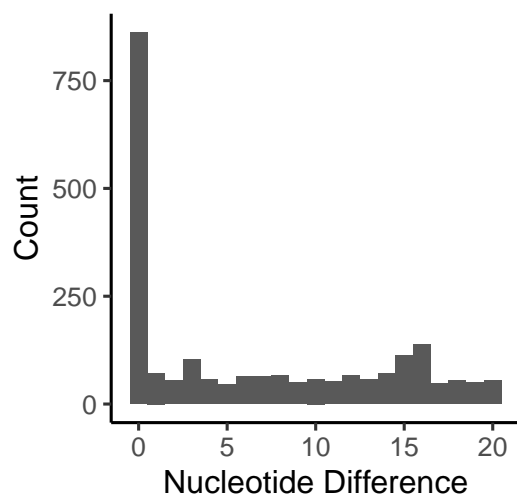
IGHV3-20*01_02

27 sequences assigned
15 (55.6%) exact matches, in which:
10 unique CDR3
4 unique J



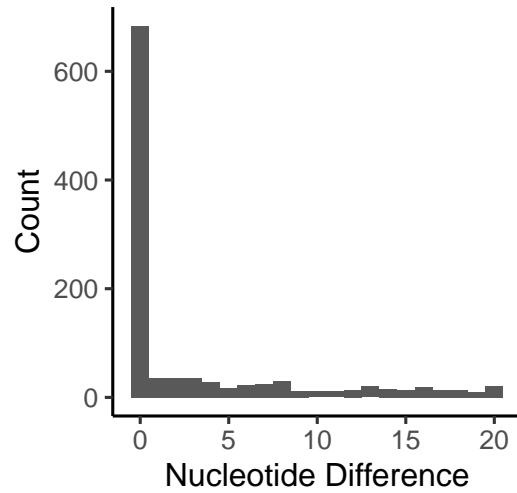
IGHV3-23*01_04

2806 sequences assigned
862 (30.7%) exact matches, in which:
519 unique CDR3
6 unique J



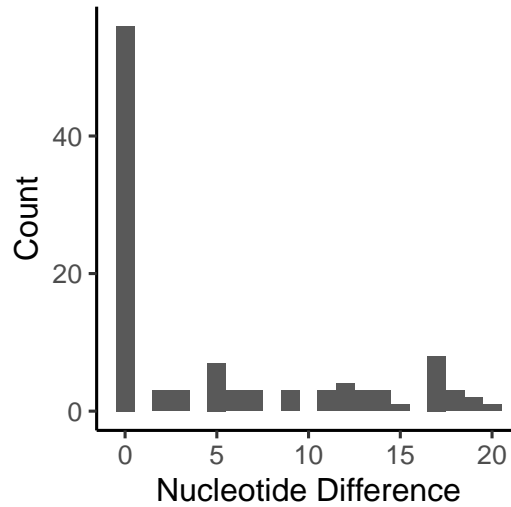
IGHV3-30-3*01

1212 sequences assigned
684 (56.4%) exact matches, in which:
433 unique CDR3
6 unique J



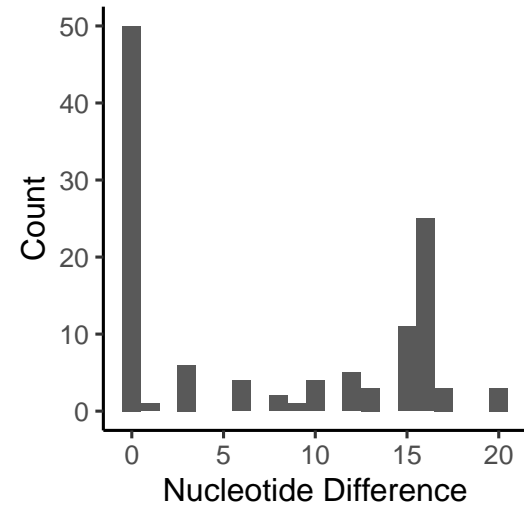
IGHV3-43*02

131 sequences assigned
56 (42.7%) exact matches, in which:
35 unique CDR3
4 unique J



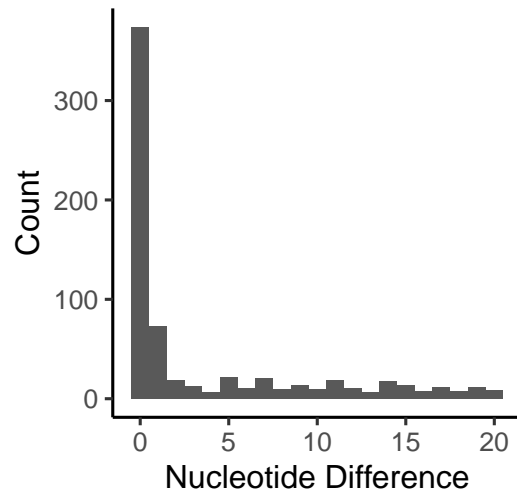
IGHV3-49*04

134 sequences assigned
50 (37.3%) exact matches, in which:
31 unique CDR3
4 unique J



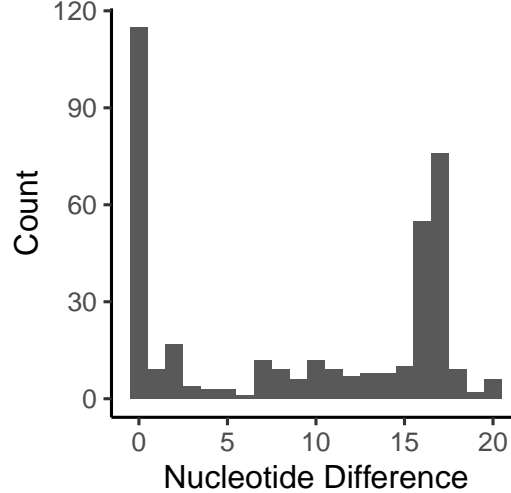
IGHV3-33*01

787 sequences assigned
374 (47.5%) exact matches, in which:
243 unique CDR3
6 unique J



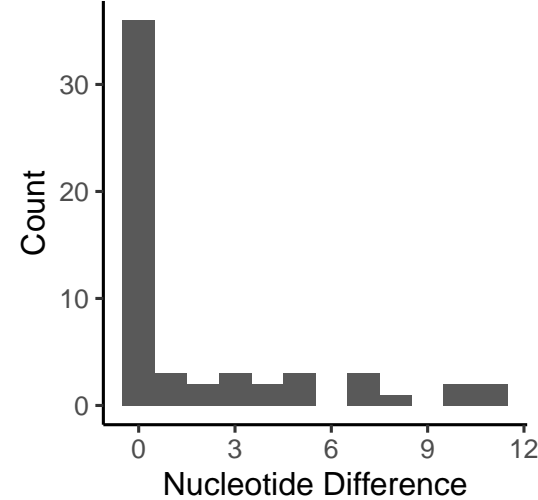
IGHV3-48*02

480 sequences assigned
115 (24%) exact matches, in which:
67 unique CDR3
6 unique J



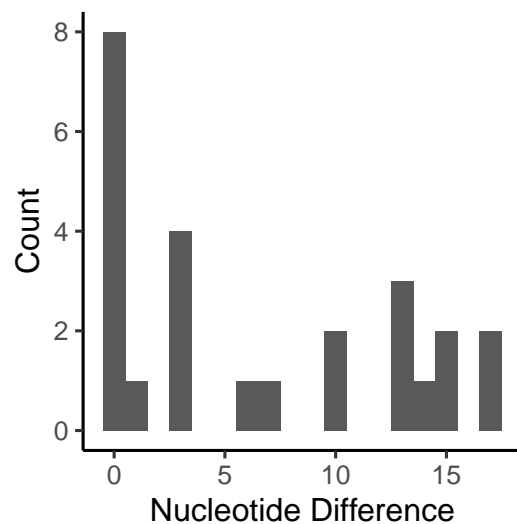
IGHV3-49*03_05

58 sequences assigned
36 (62.1%) exact matches, in which:
24 unique CDR3
5 unique J



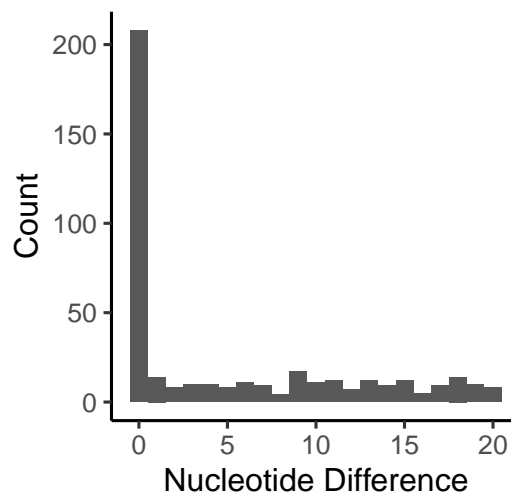
IGHV3-43*01

55 sequences assigned
8 (14.5%) exact matches, in which:
5 unique CDR3
2 unique J



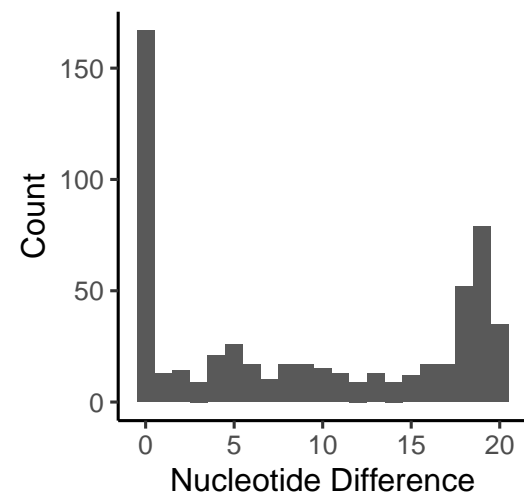
IGHV3-48*03

490 sequences assigned
208 (42.4%) exact matches, in which:
123 unique CDR3
5 unique J



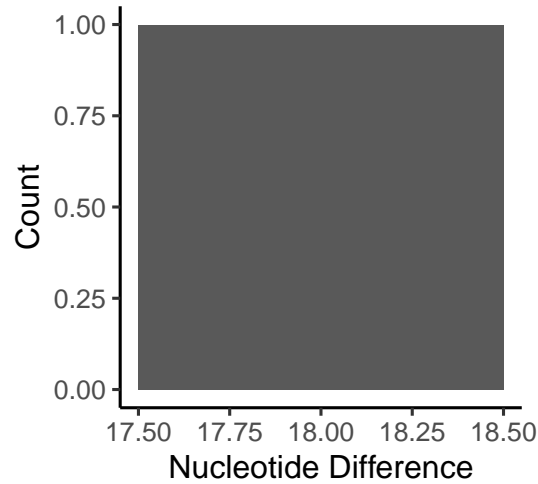
IGHV3-53*01_02

696 sequences assigned
167 (24%) exact matches, in which:
107 unique CDR3
5 unique J



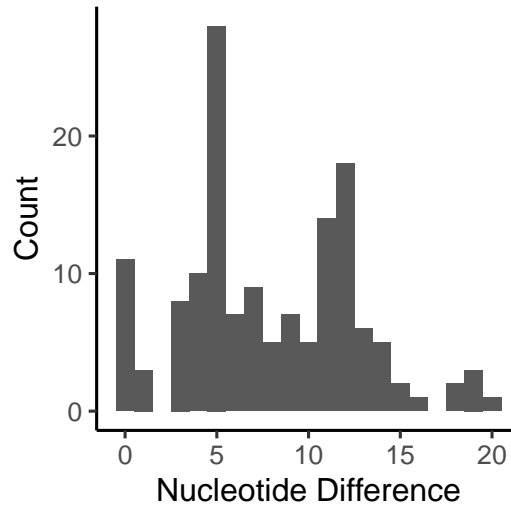
IGHV3-64*04

3 sequences assigned
No exact matches.



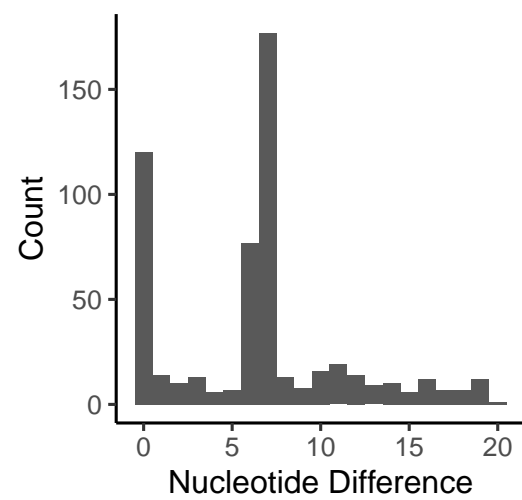
IGHV3-72*01

169 sequences assigned
11 (6.5%) exact matches, in which:
7 unique CDR3
4 unique J



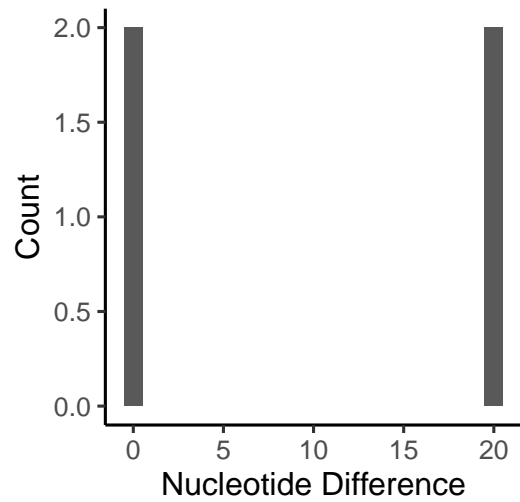
IGHV3-74*01_02

601 sequences assigned
120 (20%) exact matches, in which:
68 unique CDR3
6 unique J



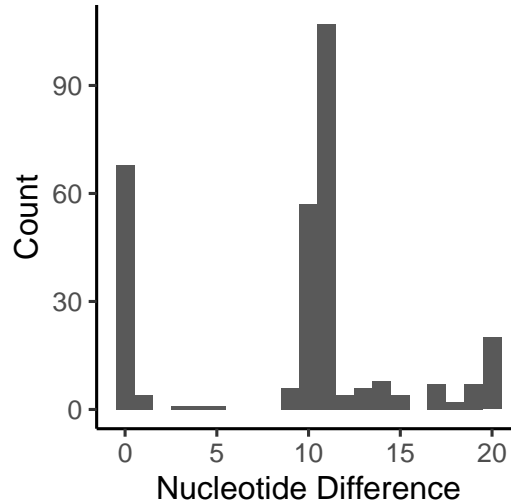
IGHV3-64*02_07

5 sequences assigned
2 (40%) exact matches, in which:
1 unique CDR3
1 unique J



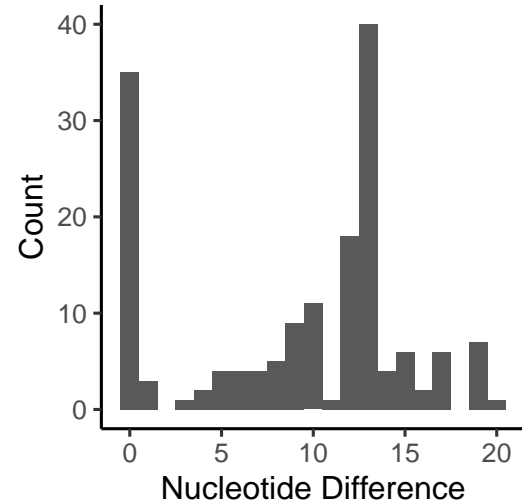
IGHV3-73*01_02

312 sequences assigned
68 (21.8%) exact matches, in which:
42 unique CDR3
5 unique J



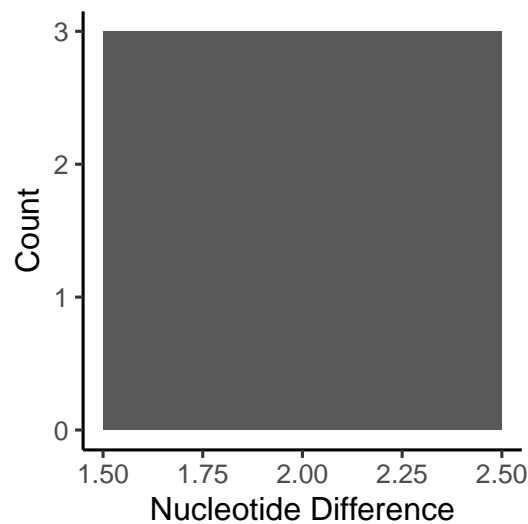
IGHV3-64D*09

191 sequences assigned
35 (18.3%) exact matches, in which:
18 unique CDR3
4 unique J



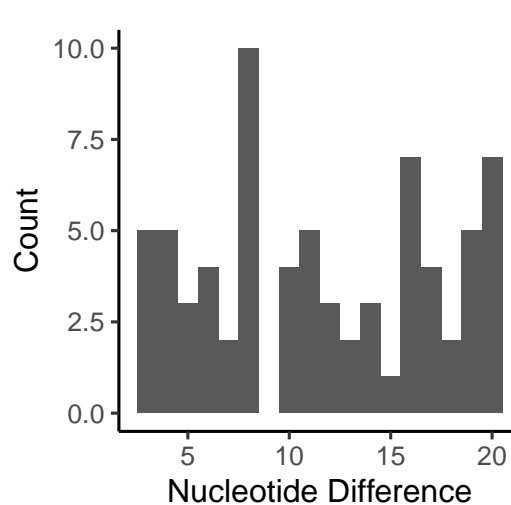
IGHV3-66*03

3 sequences assigned
No exact matches.



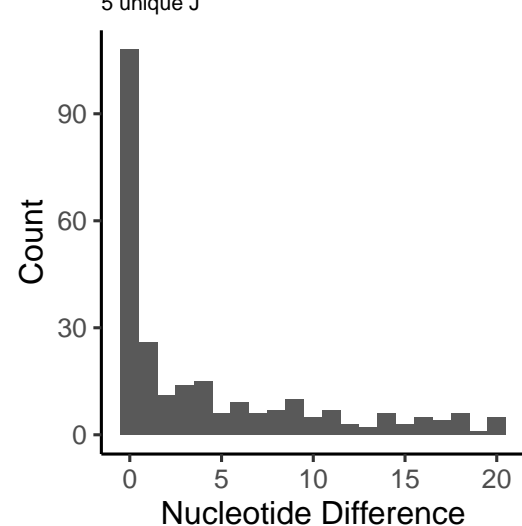
IGHV3-74*03

107 sequences assigned
No exact matches.



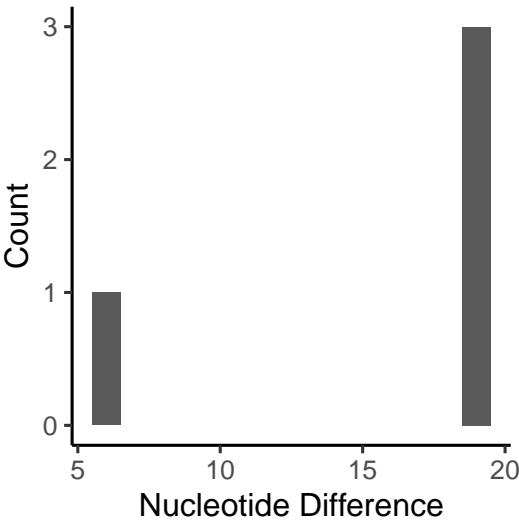
IGHV4-4*07

332 sequences assigned
108 (32.5%) exact matches, in which:
106 unique CDR3
5 unique J



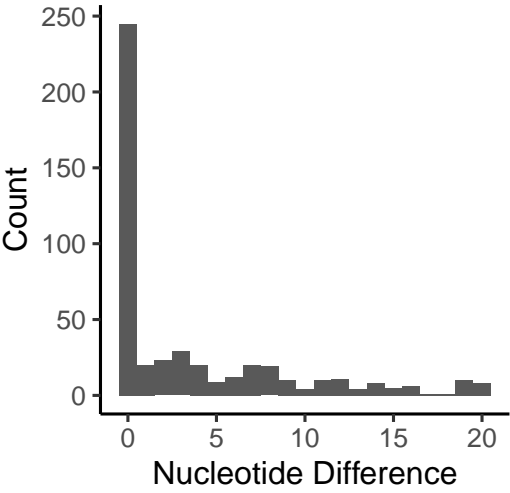
IGHV4-28*01_07

6 sequences assigned
No exact matches.



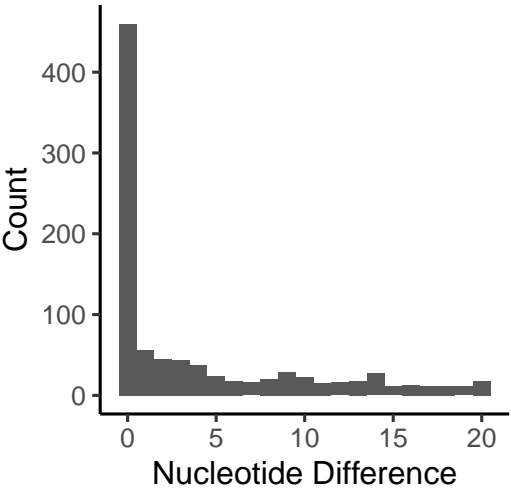
IGHV4-31*02

543 sequences assigned
245 (45.1%) exact matches, in which:
241 unique CDR3
6 unique J



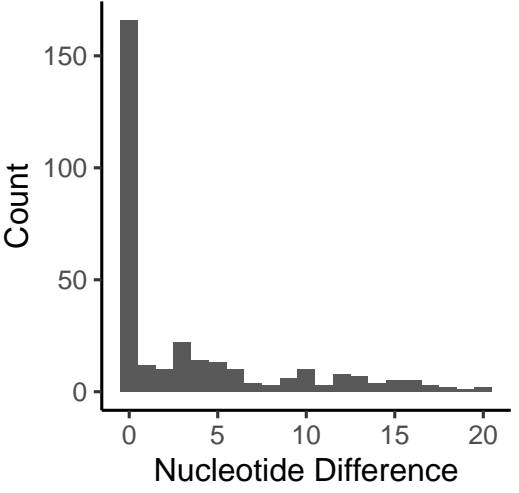
IGHV4-39*02_C258G

1258 sequences assigned
460 (36.6%) exact matches, in which:
436 unique CDR3
6 unique J



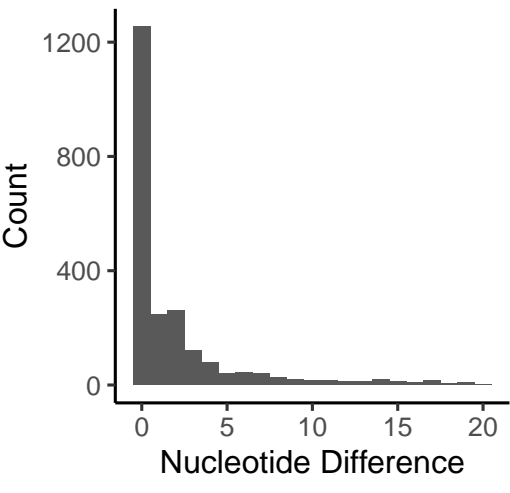
IGHV4-30-4*01

343 sequences assigned
166 (48.4%) exact matches, in which:
165 unique CDR3
6 unique J



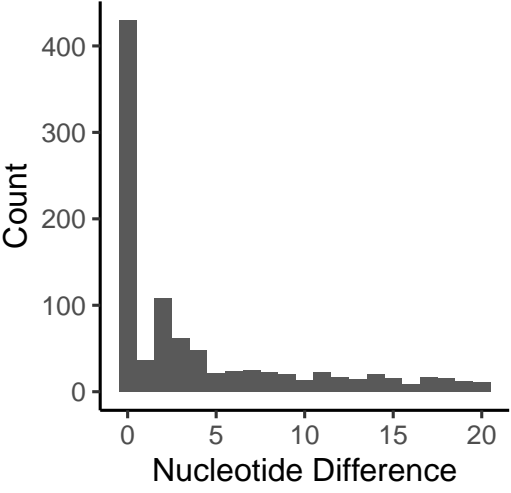
IGHV4-34*01_02

2395 sequences assigned
1254 (52.4%) exact matches, in which:
1131 unique CDR3
6 unique J



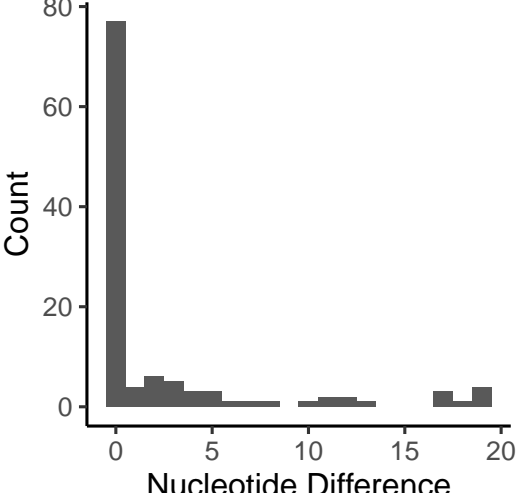
IGHV4-59*02_G88A

1051 sequences assigned
430 (40.9%) exact matches, in which:
420 unique CDR3
6 unique J



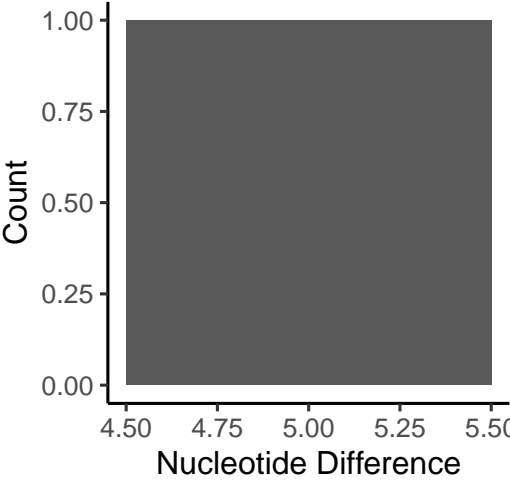
IGHV4-30-2*01

126 sequences assigned
77 (61.1%) exact matches, in which:
71 unique CDR3
6 unique J



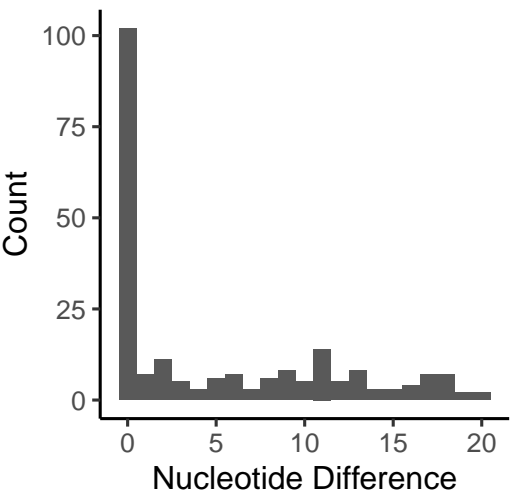
IGHV4-38-2*02

2 sequences assigned
No exact matches.



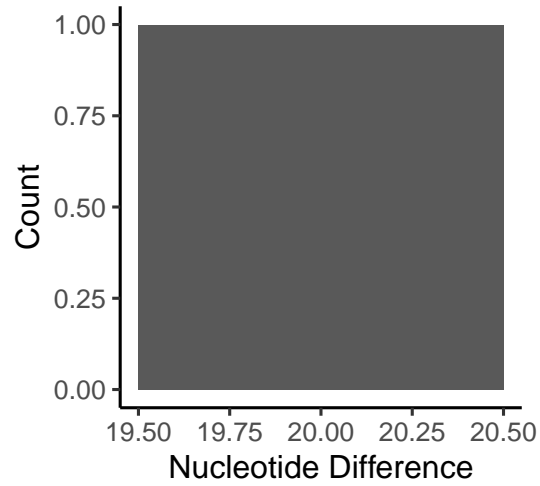
IGHV4-61*01

272 sequences assigned
102 (37.5%) exact matches, in which:
102 unique CDR3
6 unique J



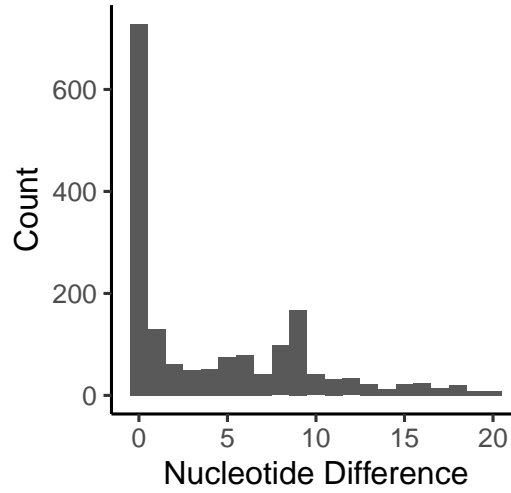
IGHV1/OR15-2*02_03

3 sequences assigned
No exact matches.



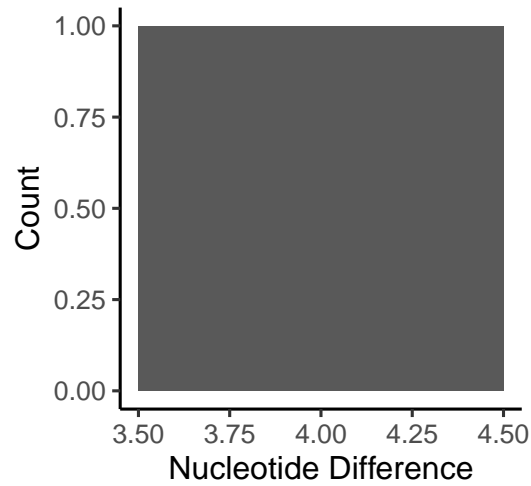
IGHV5-51*07_A128G

2018 sequences assigned
729 (36.1%) exact matches, in which:
503 unique CDR3
6 unique J



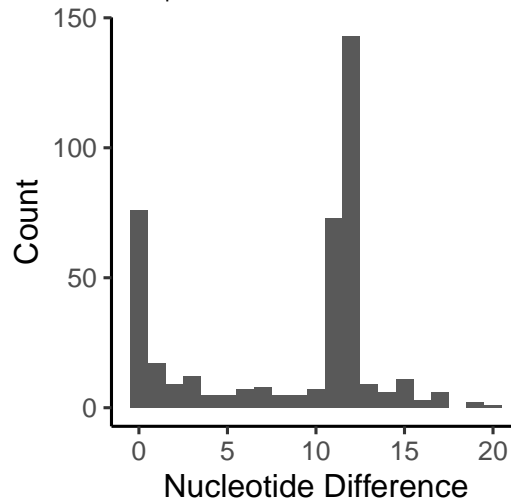
IGHV4/OR15-8*01

1 sequences assigned
No exact matches.



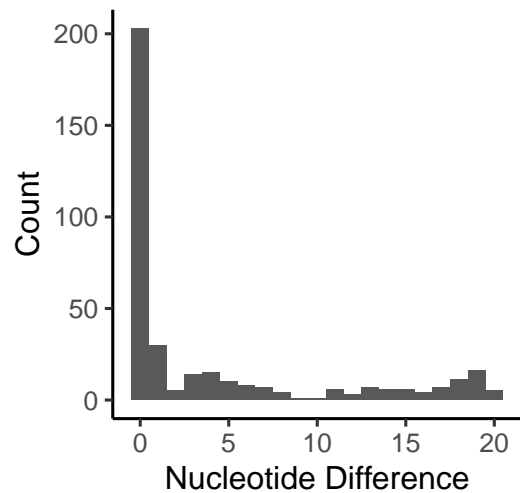
IGHV6-1*01_02

418 sequences assigned
76 (18.2%) exact matches, in which:
75 unique CDR3
5 unique J



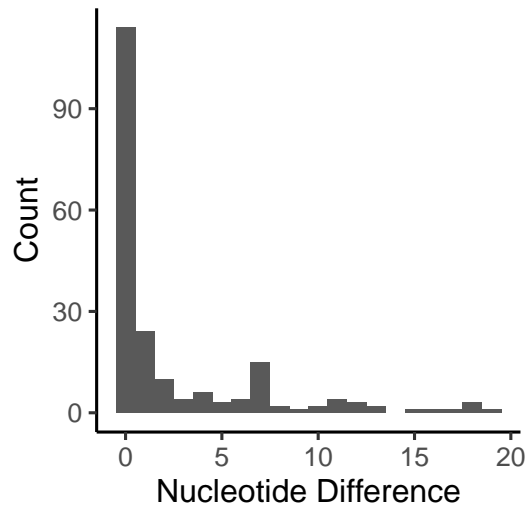
IGHV5-10-1*01_03

407 sequences assigned
203 (49.9%) exact matches, in which:
152 unique CDR3
5 unique J



IGHV7-4-1*02

223 sequences assigned
114 (51.1%) exact matches, in which:
113 unique CDR3
6 unique J



Allele Usage



Warning – no inferred sequences found.