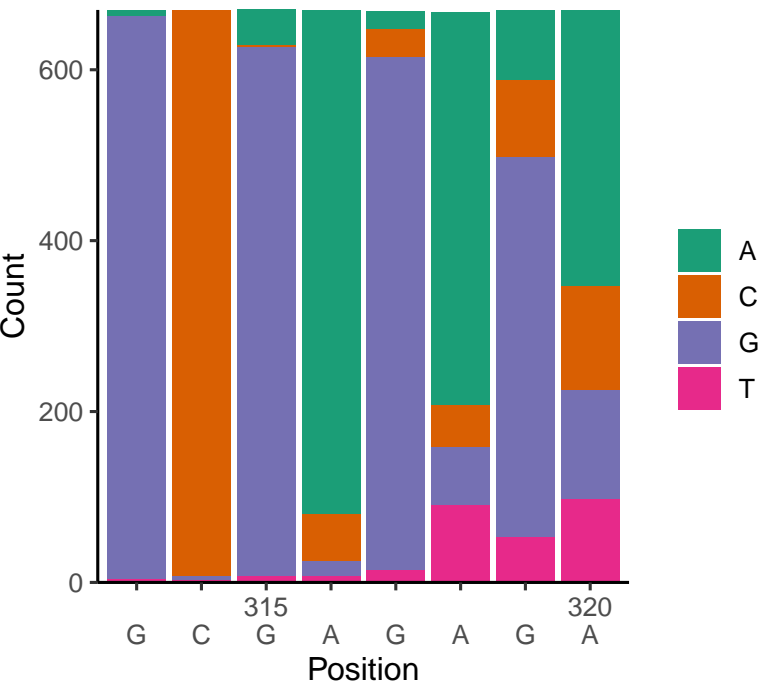
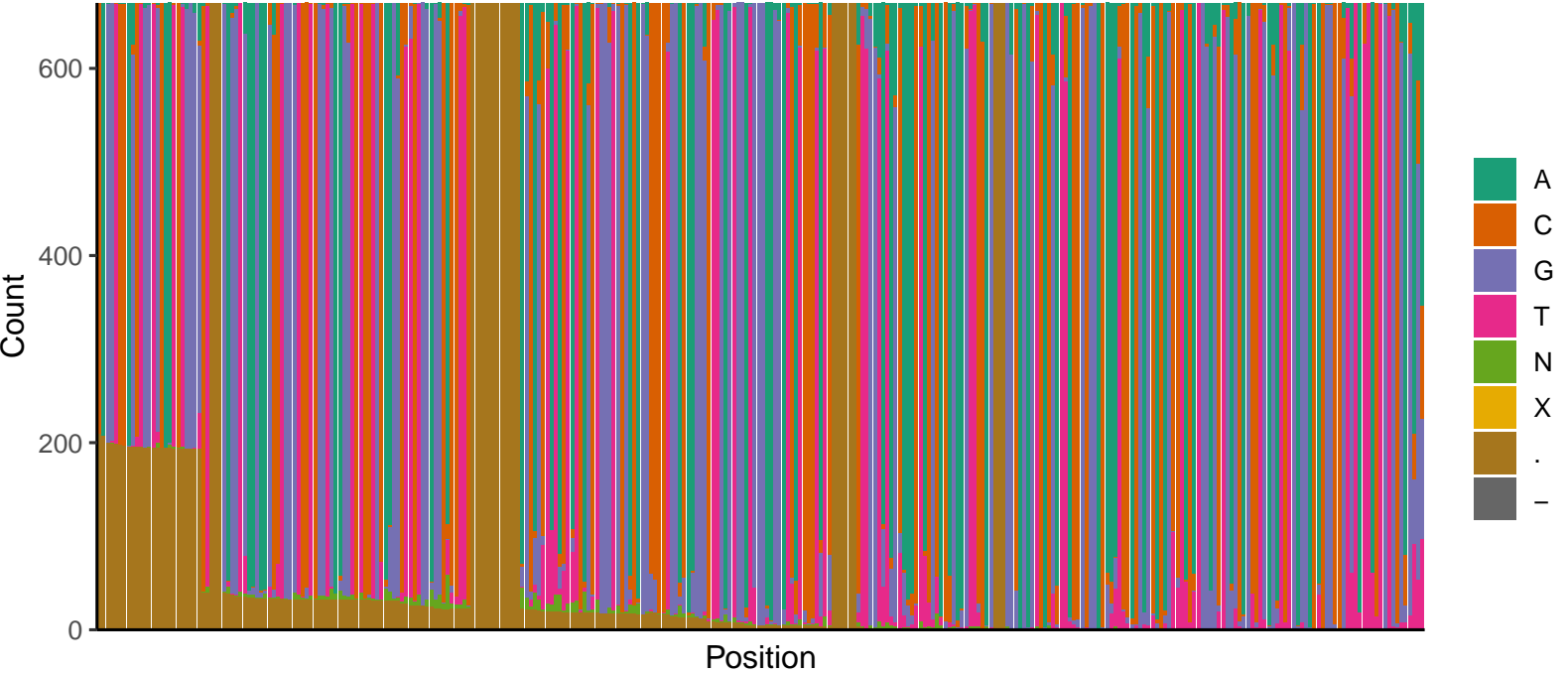


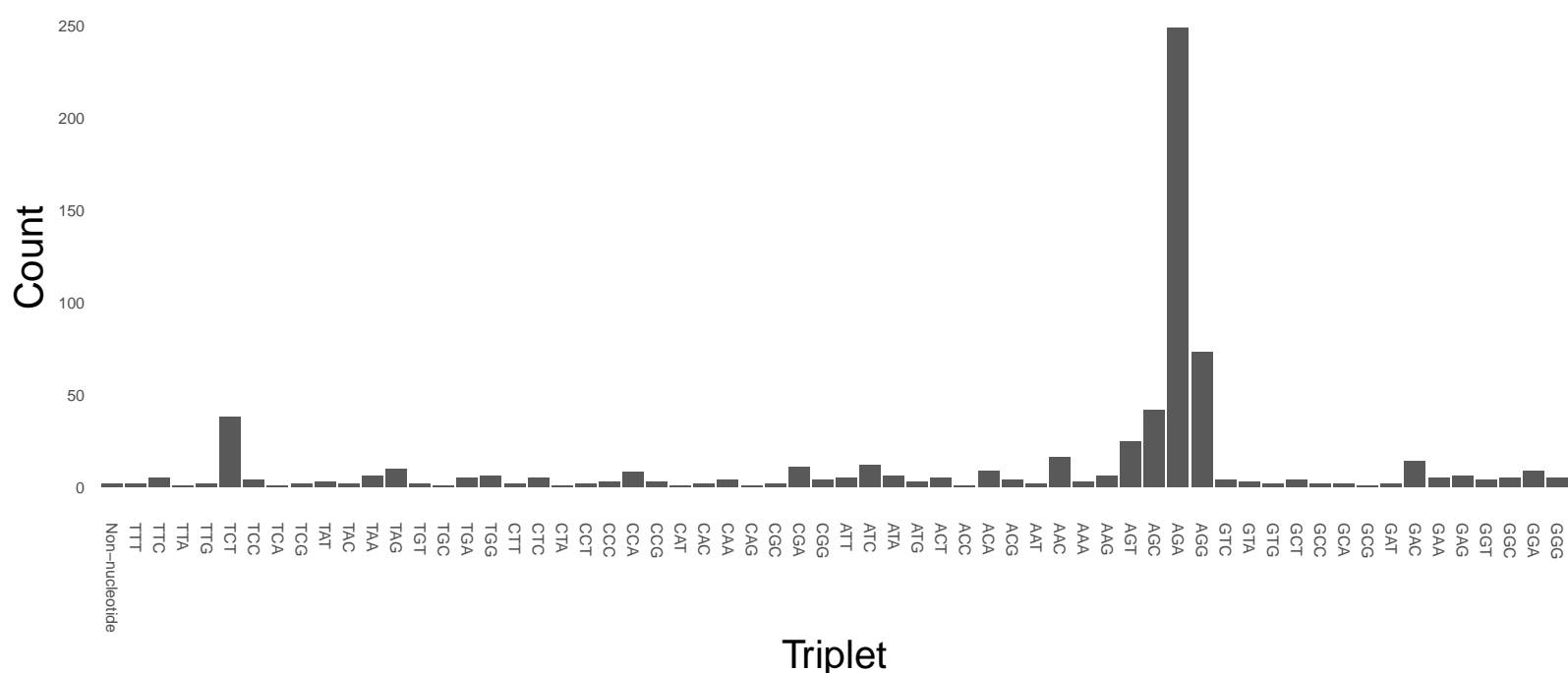
Gene IGHV1-69*08_C191T



Gene IGHV1-69*08_C191T

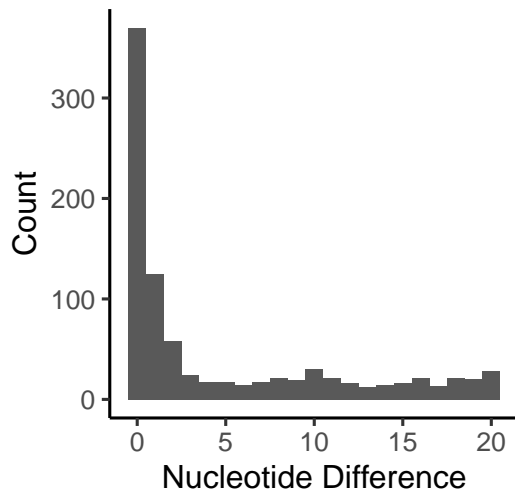


IGHV1-69*08_C191T- Final 3 nucleotides as a triplet



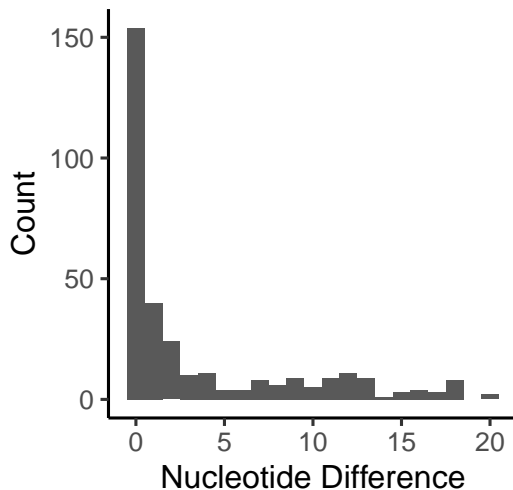
IGHV1-2*02

1184 sequences assigned
370 (31.2%) exact matches, in which:
356 unique CDR3
6 unique J



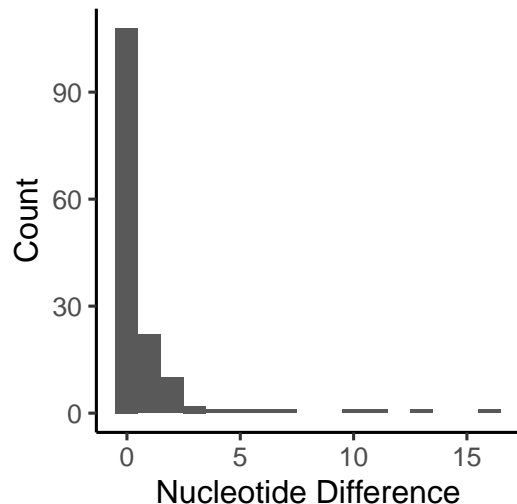
IGHV1-8*01

349 sequences assigned
154 (44.1%) exact matches, in which:
142 unique CDR3
7 unique J



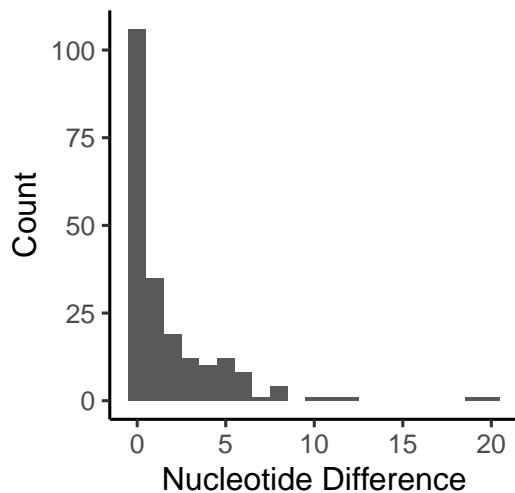
IGHV1-24*01

163 sequences assigned
108 (66.3%) exact matches, in which:
105 unique CDR3
7 unique J



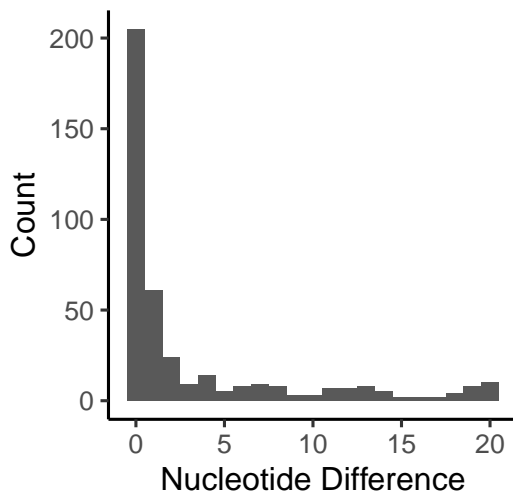
IGHV1-2*04

242 sequences assigned
106 (43.8%) exact matches, in which:
99 unique CDR3
6 unique J



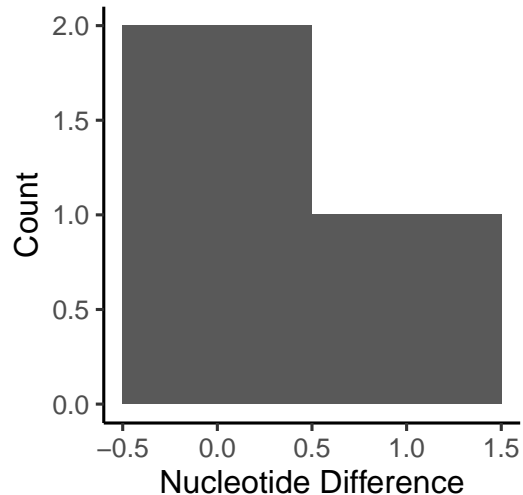
IGHV1-18*01

489 sequences assigned
205 (41.9%) exact matches, in which:
200 unique CDR3
6 unique J



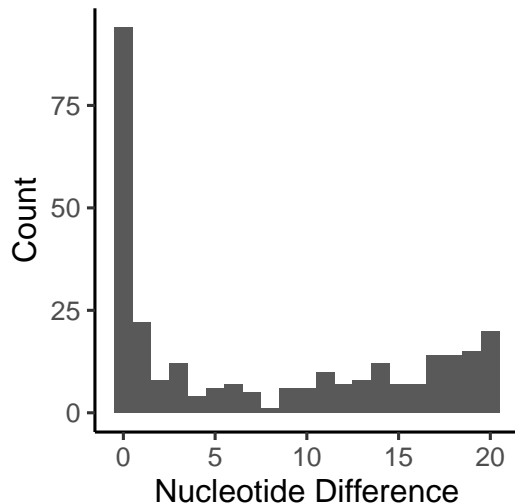
IGHV1-45*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
1 unique J



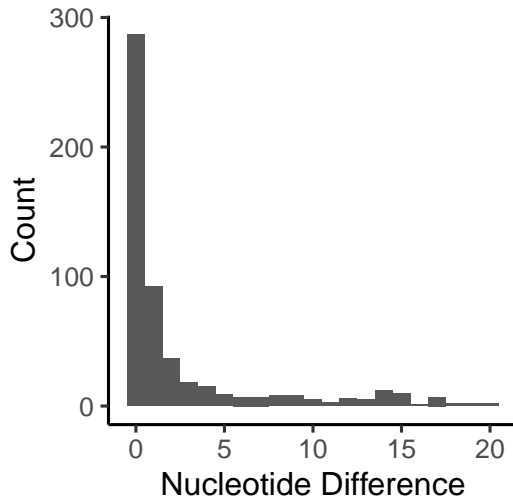
IGHV1-3*01

447 sequences assigned
94 (21%) exact matches, in which:
92 unique CDR3
7 unique J



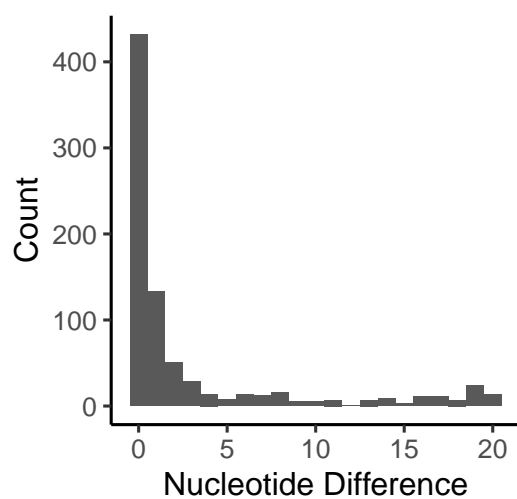
IGHV1-18*04

618 sequences assigned
287 (46.4%) exact matches, in which:
268 unique CDR3
6 unique J



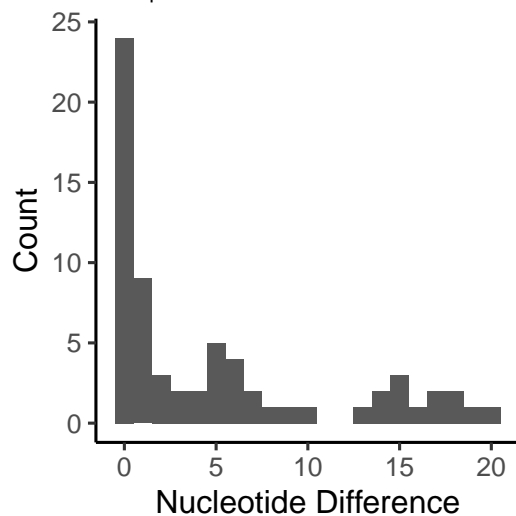
IGHV1-46*01

1221 sequences assigned
432 (35.4%) exact matches, in which:
397 unique CDR3
7 unique J



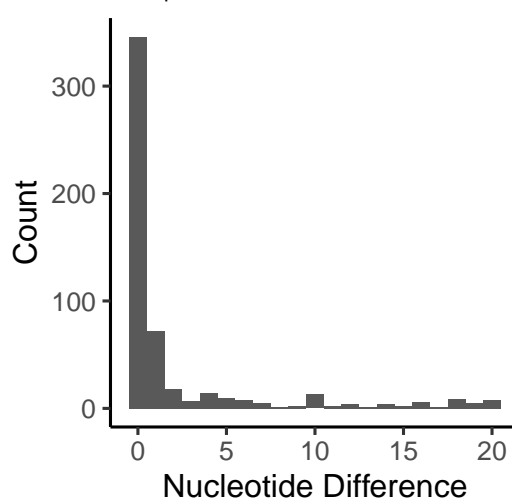
IGHV1-58*01

81 sequences assigned
24 (29.6%) exact matches, in which:
21 unique CDR3
4 unique J



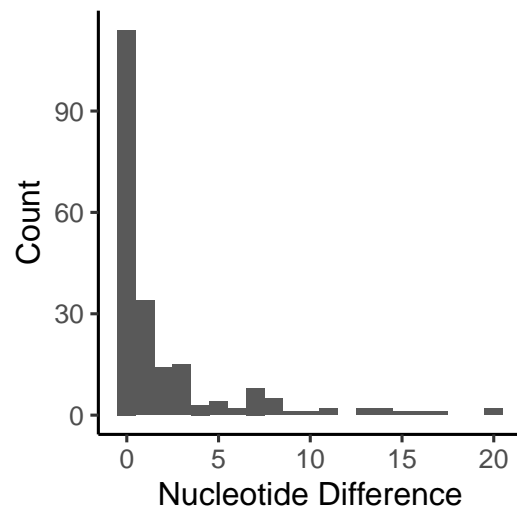
IGHV1-69*08_C191T

670 sequences assigned
346 (51.6%) exact matches, in which:
323 unique CDR3
6 unique J



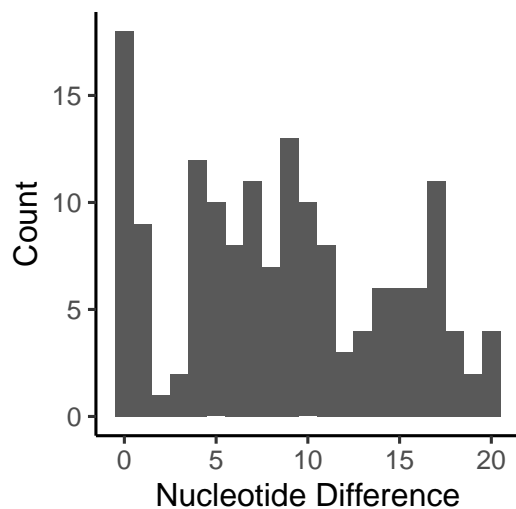
IGHV2-26*01

224 sequences assigned
114 (50.9%) exact matches, in which:
105 unique CDR3
7 unique J



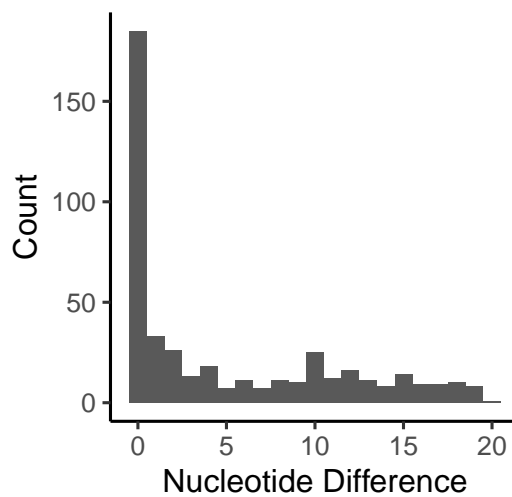
IGHV1-58*02

191 sequences assigned
18 (9.4%) exact matches, in which:
18 unique CDR3
4 unique J



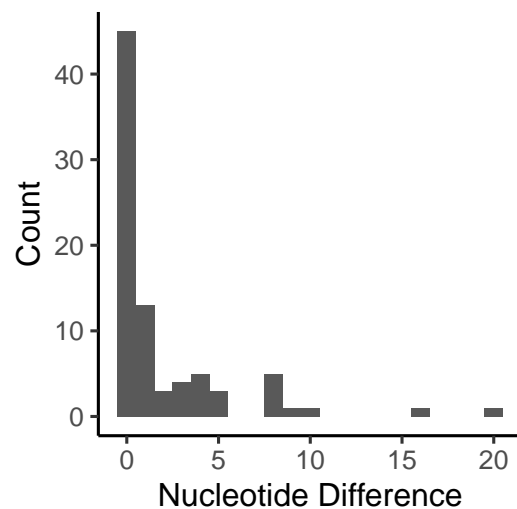
IGHV2-5*01

545 sequences assigned
185 (33.9%) exact matches, in which:
176 unique CDR3
6 unique J



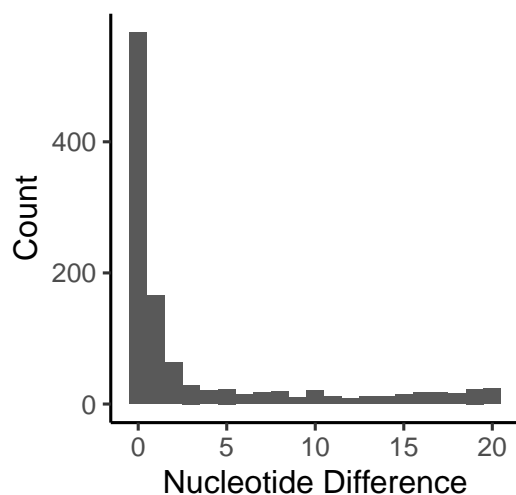
IGHV2-70*01

82 sequences assigned
45 (54.9%) exact matches, in which:
44 unique CDR3
4 unique J



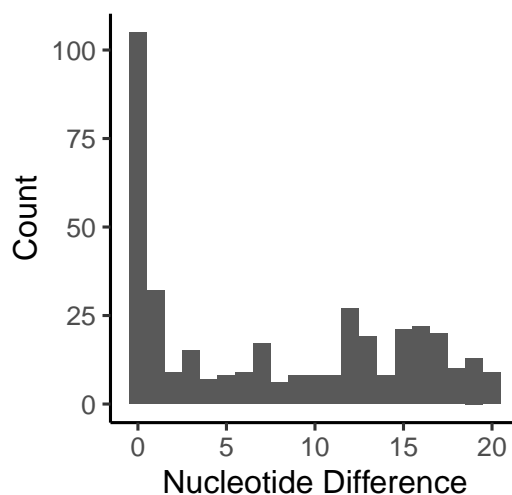
IGHV1-69*01

1338 sequences assigned
567 (42.4%) exact matches, in which:
529 unique CDR3
6 unique J



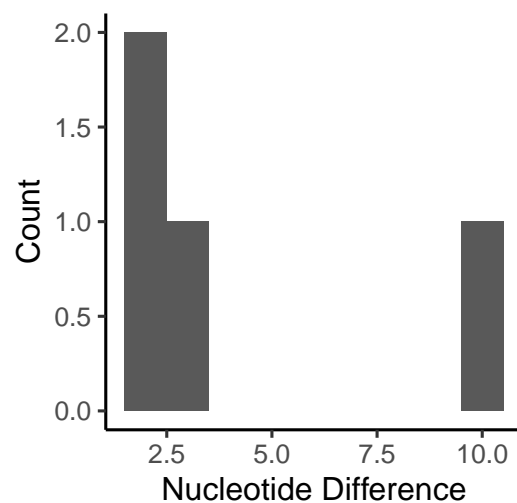
IGHV2-5*02

545 sequences assigned
105 (19.3%) exact matches, in which:
99 unique CDR3
6 unique J



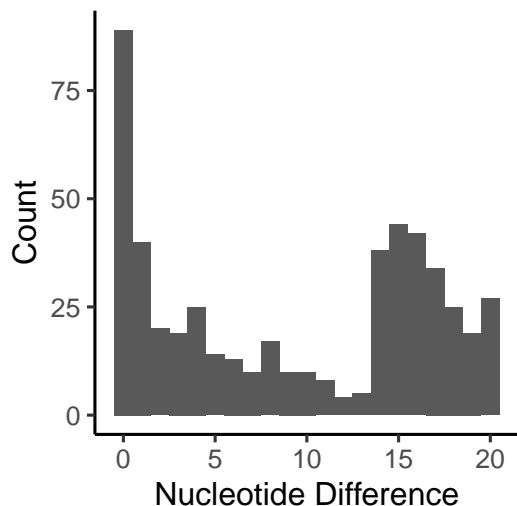
IGHV2-70D*14

4 sequences assigned
No exact matches.



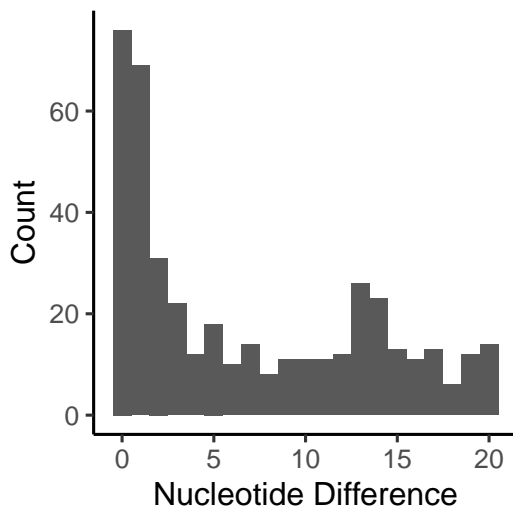
IGHV3-7*01

732 sequences assigned
89 (12.2%) exact matches, in which:
84 unique CDR3
6 unique J



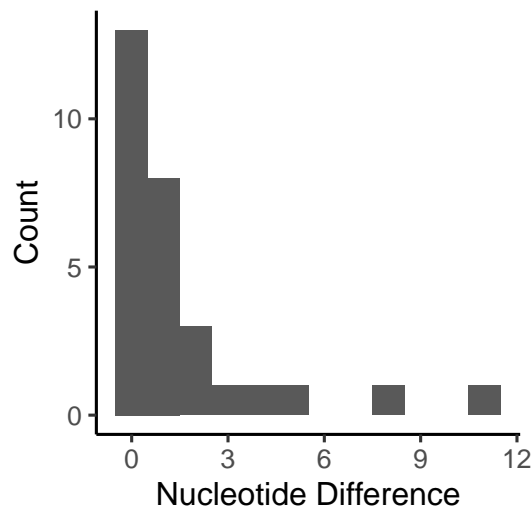
IGHV3-11*01

563 sequences assigned
76 (13.5%) exact matches, in which:
75 unique CDR3
5 unique J



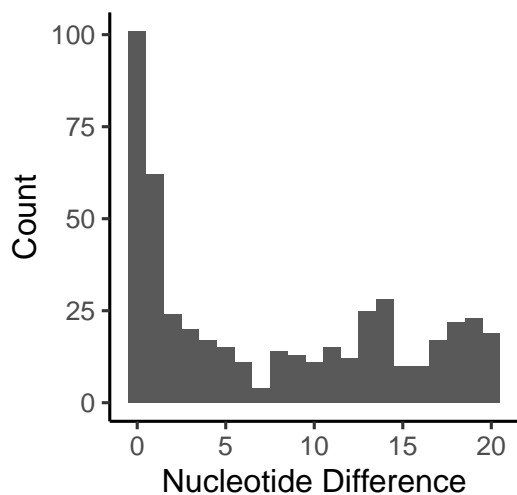
IGHV3-13*05

29 sequences assigned
13 (44.8%) exact matches, in which:
13 unique CDR3
4 unique J



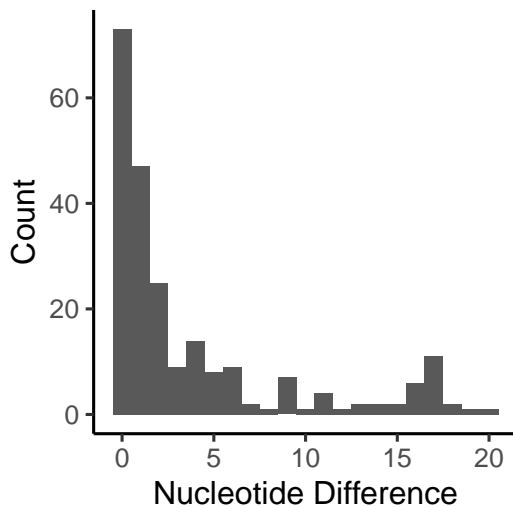
IGHV3-7*03

718 sequences assigned
101 (14.1%) exact matches, in which:
99 unique CDR3
6 unique J



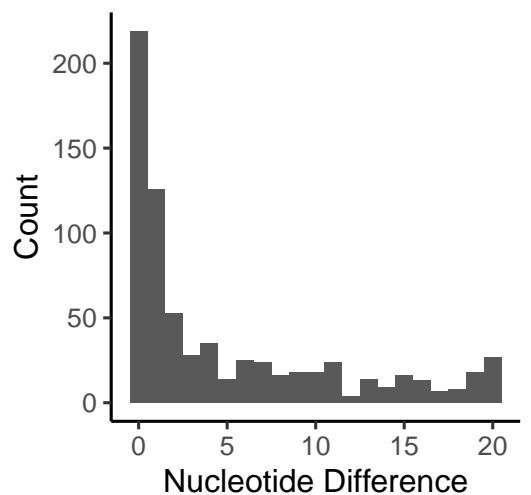
IGHV3-11*06

277 sequences assigned
73 (26.4%) exact matches, in which:
66 unique CDR3
5 unique J



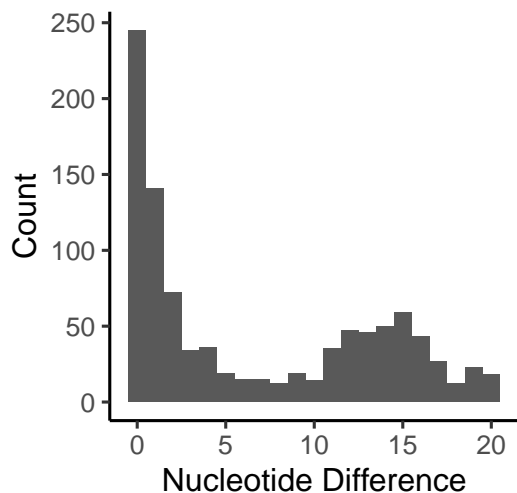
IGHV3-15*01

996 sequences assigned
219 (22%) exact matches, in which:
215 unique CDR3
7 unique J



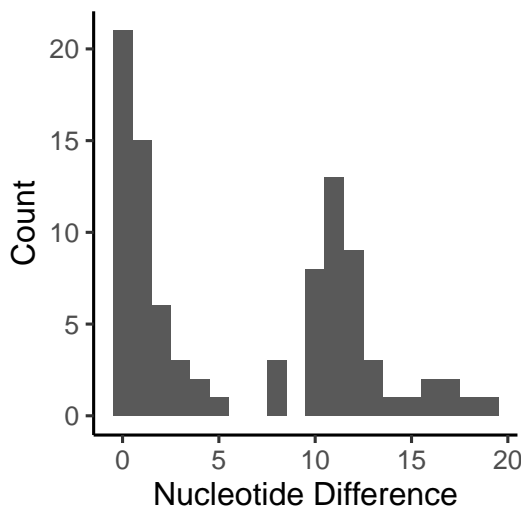
IGHV3-9*01

1200 sequences assigned
245 (20.4%) exact matches, in which:
231 unique CDR3
6 unique J



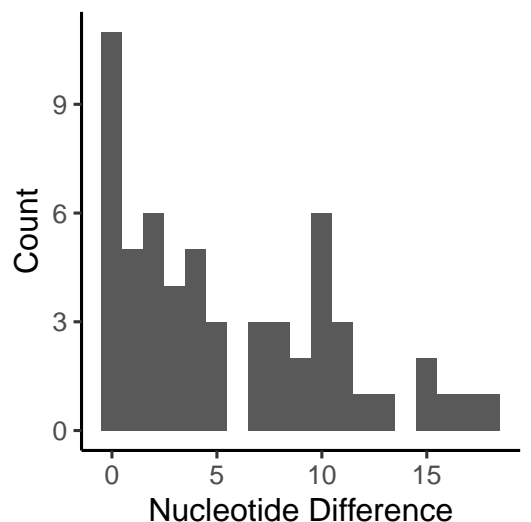
IGHV3-13*01

98 sequences assigned
21 (21.4%) exact matches, in which:
21 unique CDR3
4 unique J



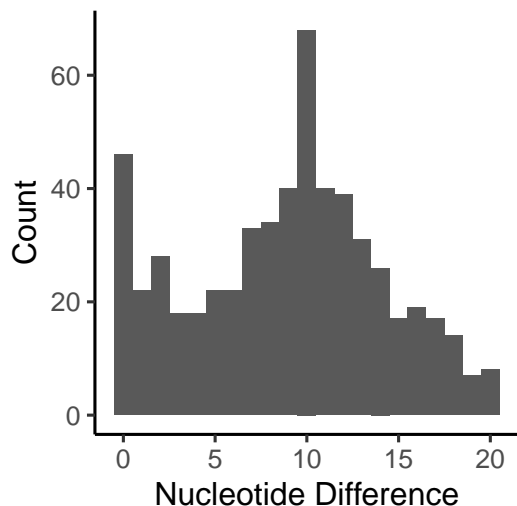
IGHV3-20*01

61 sequences assigned
11 (18%) exact matches, in which:
9 unique CDR3
3 unique J



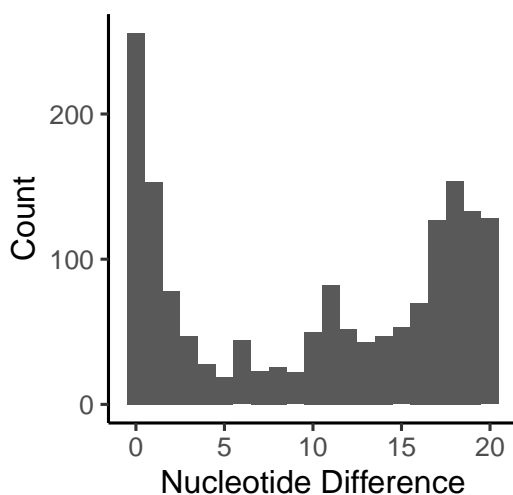
IGHV3-20*04

603 sequences assigned
46 (7.6%) exact matches, in which:
46 unique CDR3
5 unique J



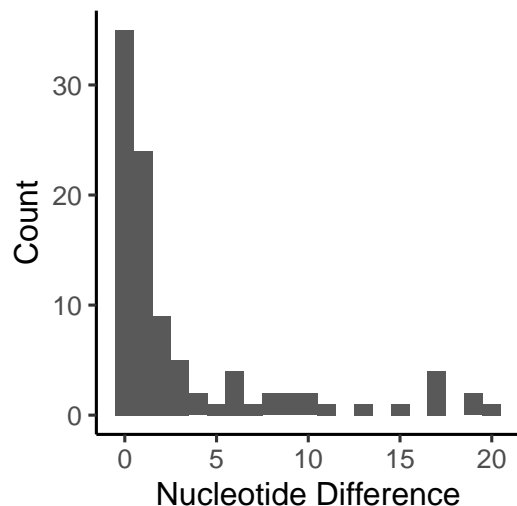
IGHV3-30-3*01

2143 sequences assigned
256 (11.9%) exact matches, in which:
243 unique CDR3
6 unique J



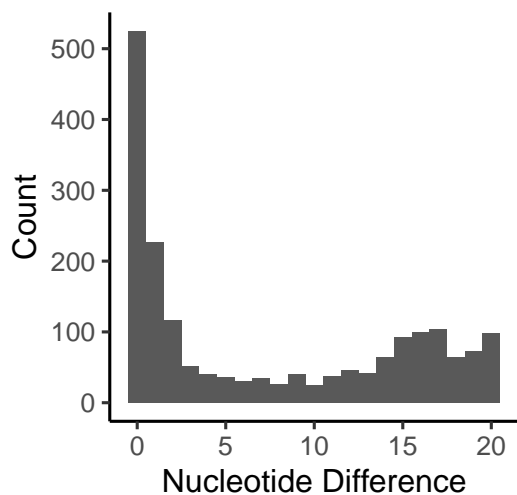
IGHV3-43*01

119 sequences assigned
35 (29.4%) exact matches, in which:
33 unique CDR3
7 unique J



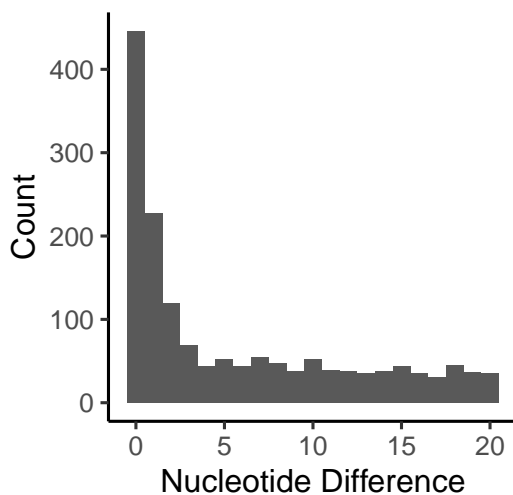
IGHV3-21*01

3916 sequences assigned
525 (13.4%) exact matches, in which:
497 unique CDR3
7 unique J



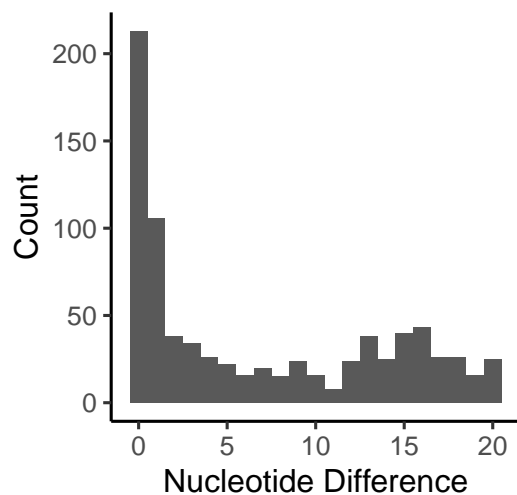
IGHV3-30*18

2231 sequences assigned
446 (20%) exact matches, in which:
430 unique CDR3
7 unique J



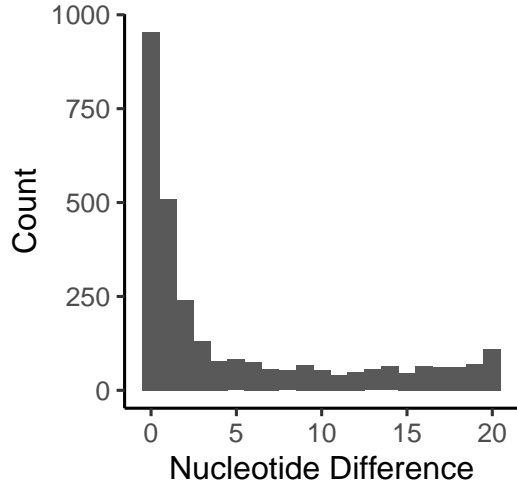
IGHV3-48*02

1033 sequences assigned
213 (20.6%) exact matches, in which:
205 unique CDR3
7 unique J



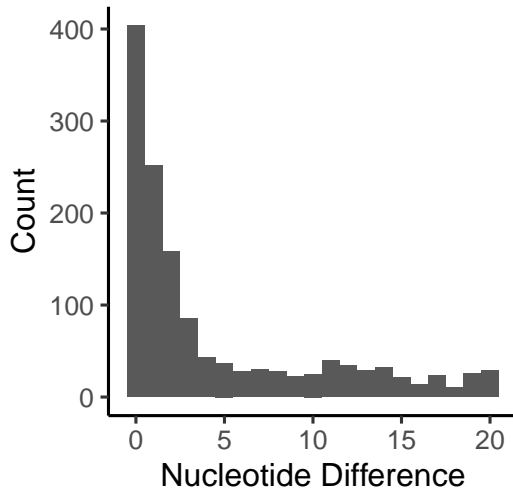
IGHV3-23*01

4024 sequences assigned
954 (23.7%) exact matches, in which:
911 unique CDR3
7 unique J



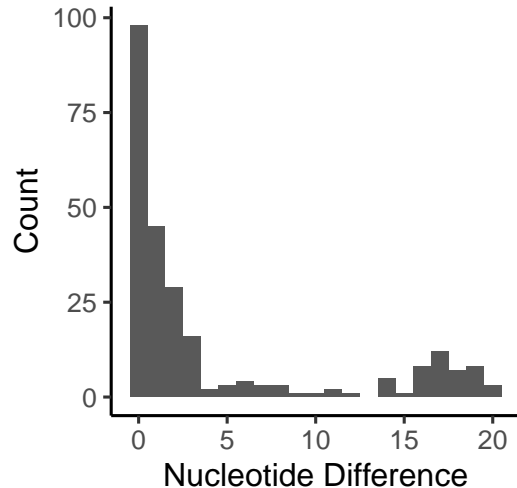
IGHV3-33*01

1686 sequences assigned
404 (24%) exact matches, in which:
389 unique CDR3
7 unique J



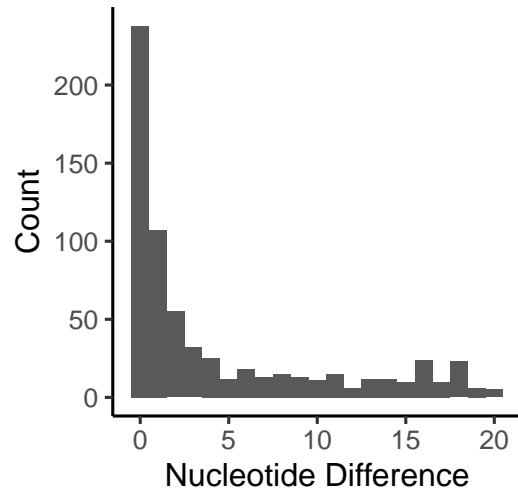
IGHV3-49*05

347 sequences assigned
98 (28.2%) exact matches, in which:
94 unique CDR3
7 unique J



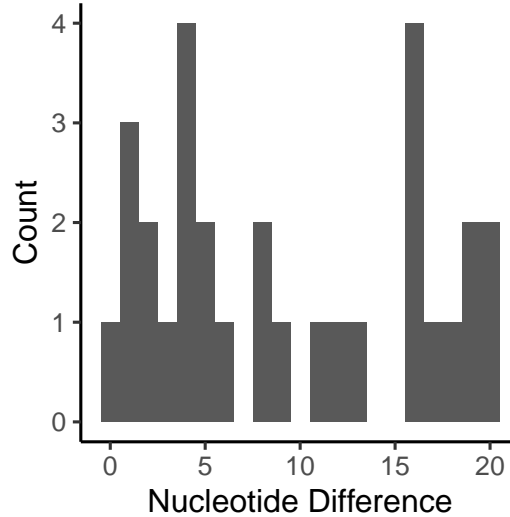
IGHV3-53*01

875 sequences assigned
238 (27.2%) exact matches, in which:
219 unique CDR3
7 unique J



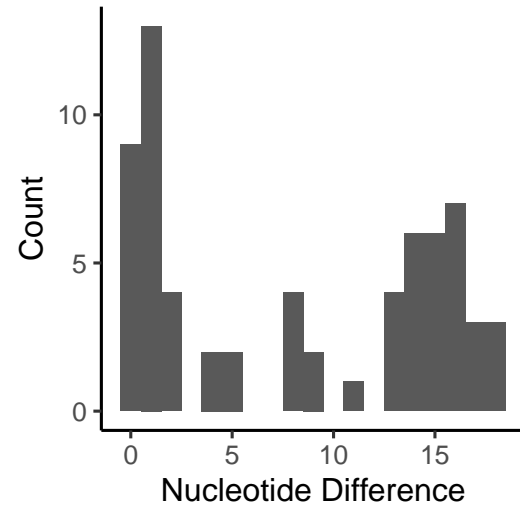
IGHV3-69-1*02

48 sequences assigned
1 (2.1%) exact matches, in which:
1 unique CDR3
1 unique J



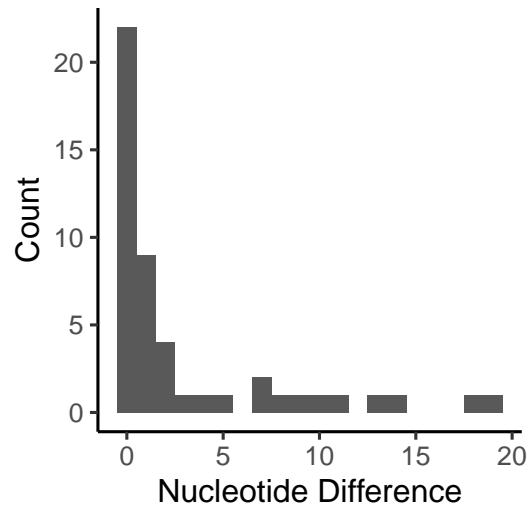
IGHV3-73*02

80 sequences assigned
9 (11.2%) exact matches, in which:
8 unique CDR3
3 unique J



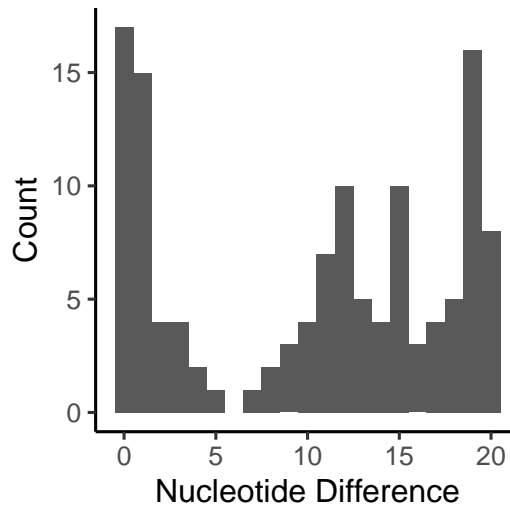
IGHV3-64*01

60 sequences assigned
22 (36.7%) exact matches, in which:
22 unique CDR3
5 unique J



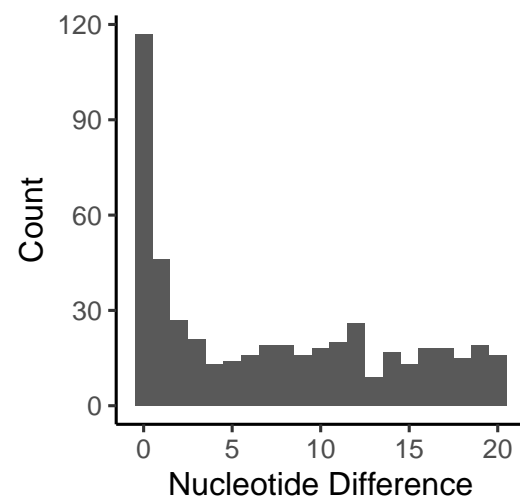
IGHV3-72*01

214 sequences assigned
17 (7.9%) exact matches, in which:
17 unique CDR3
4 unique J



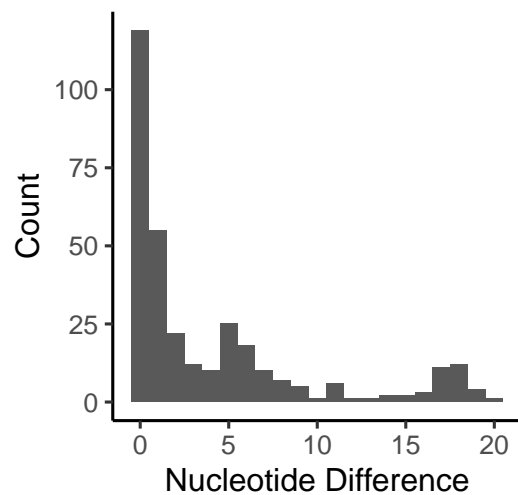
IGHV3-74*01

773 sequences assigned
117 (15.1%) exact matches, in which:
111 unique CDR3
7 unique J



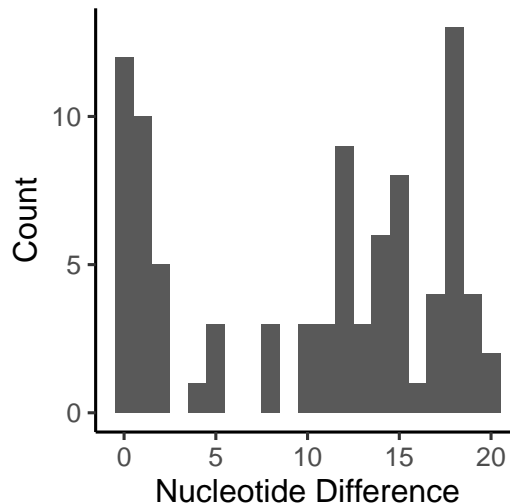
IGHV3-66*02

352 sequences assigned
119 (33.8%) exact matches, in which:
108 unique CDR3
5 unique J



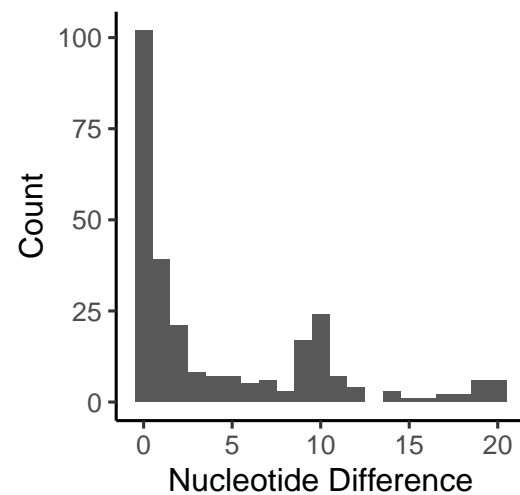
IGHV3-73*01

107 sequences assigned
12 (11.2%) exact matches, in which:
11 unique CDR3
4 unique J



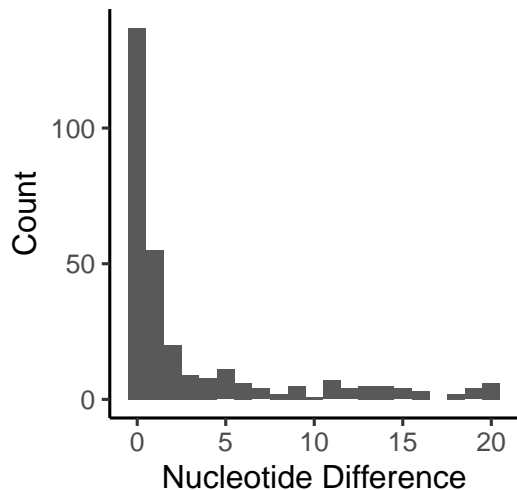
IGHV3-64D*09

380 sequences assigned
102 (26.8%) exact matches, in which:
99 unique CDR3
5 unique J



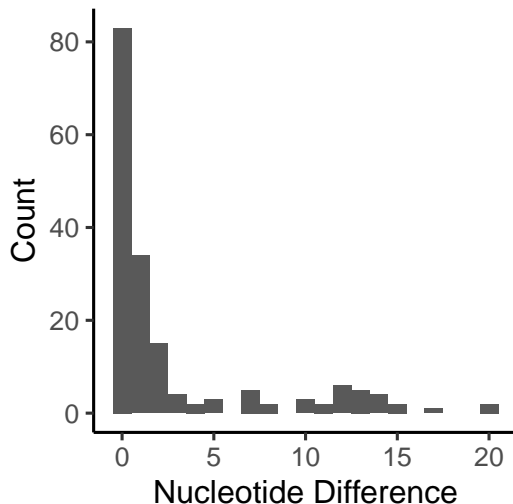
IGHV4-4*02

389 sequences assigned
137 (35.2%) exact matches, in which:
127 unique CDR3
6 unique J



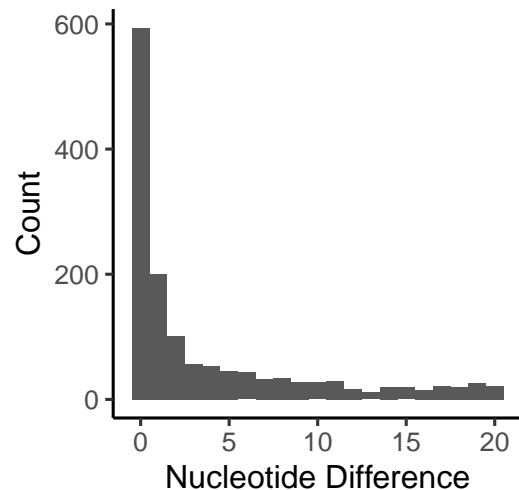
IGHV4-30-4*01

235 sequences assigned
83 (35.3%) exact matches, in which:
79 unique CDR3
6 unique J



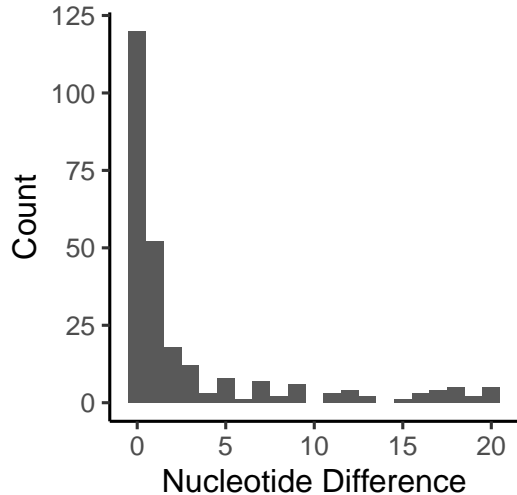
IGHV4-34*01

1766 sequences assigned
594 (33.6%) exact matches, in which:
563 unique CDR3
7 unique J



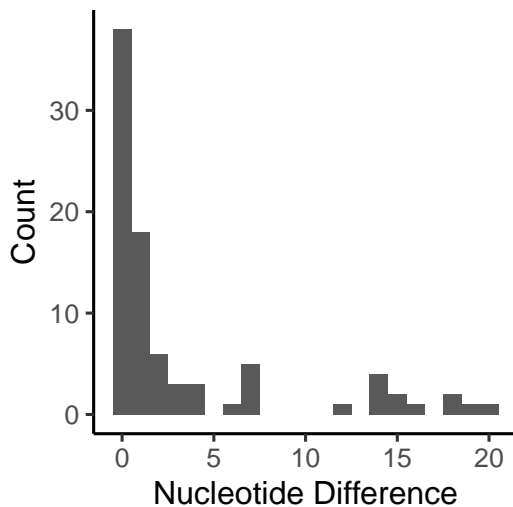
IGHV4-4*07

322 sequences assigned
120 (37.3%) exact matches, in which:
118 unique CDR3
5 unique J



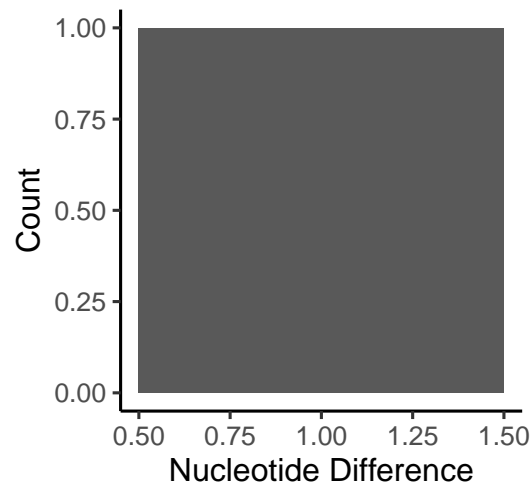
IGHV4-30-2*01

112 sequences assigned
38 (33.9%) exact matches, in which:
36 unique CDR3
5 unique J



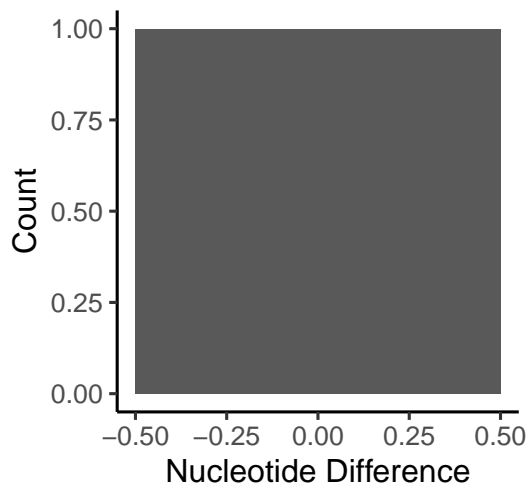
IGHV4-38-2*02

2 sequences assigned
No exact matches.



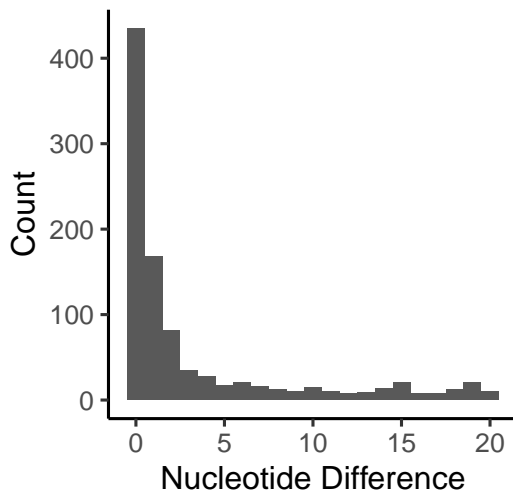
IGHV4-28*01

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



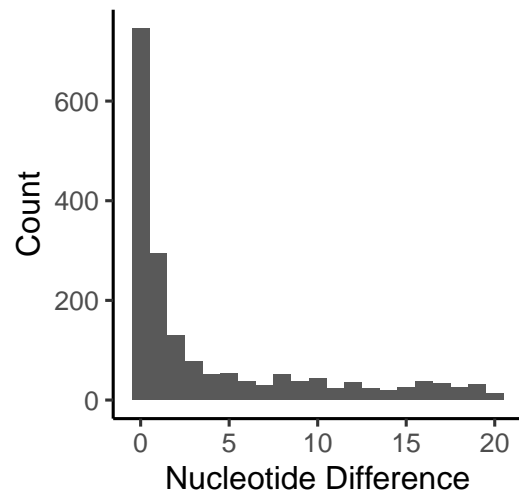
IGHV4-31*03

1358 sequences assigned
435 (32%) exact matches, in which:
405 unique CDR3
7 unique J



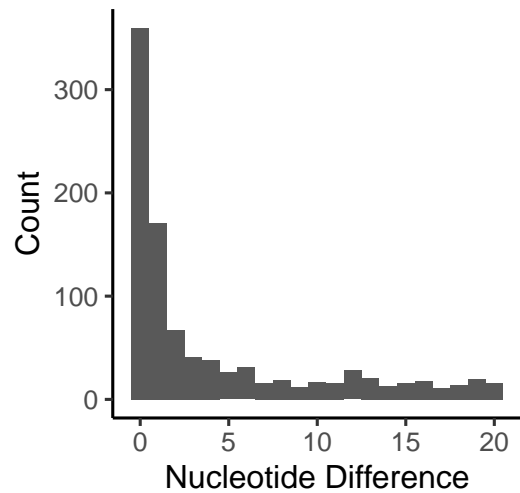
IGHV4-39*01

2485 sequences assigned
746 (30%) exact matches, in which:
691 unique CDR3
7 unique J



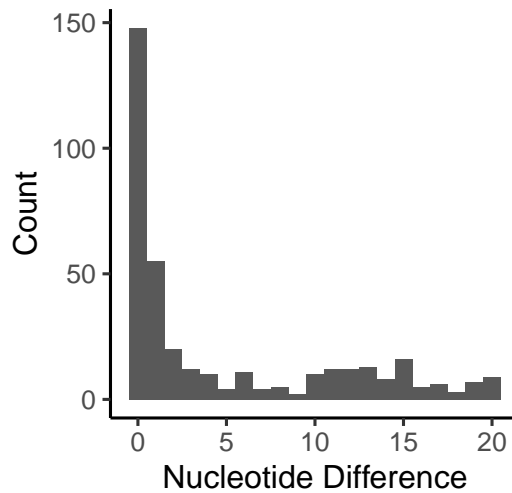
IGHV4–59*01

1186 sequences assigned
360 (30.4%) exact matches, in which:
346 unique CDR3
7 unique J



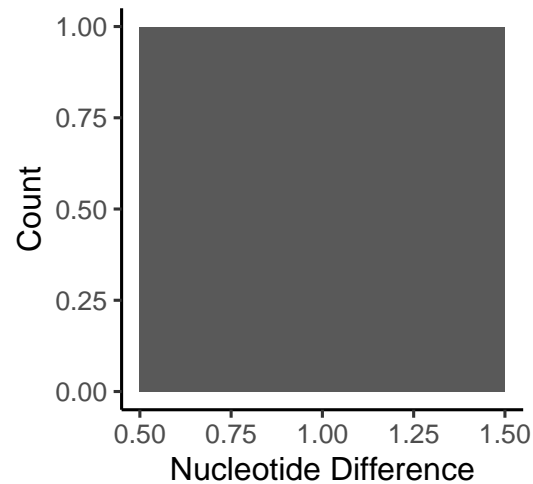
IGHV5–10–1*03

563 sequences assigned
148 (26.3%) exact matches, in which:
143 unique CDR3
6 unique J



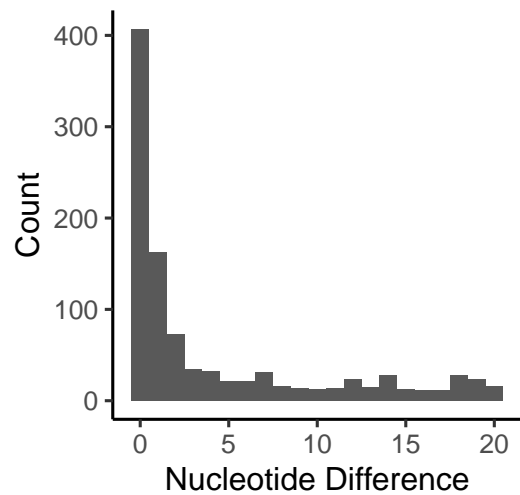
IGHV3/OR16–12*01

1 sequences assigned
No exact matches.



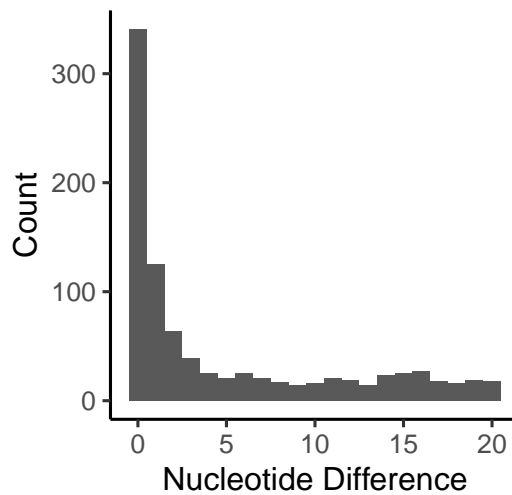
IGHV4–61*02

1369 sequences assigned
407 (29.7%) exact matches, in which:
387 unique CDR3
7 unique J



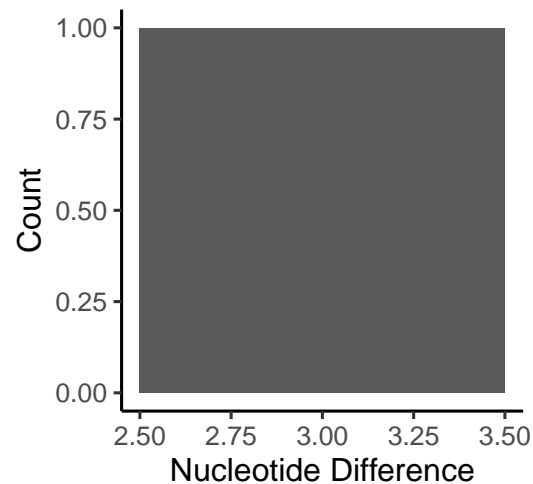
IGHV5–51*01

1362 sequences assigned
341 (25%) exact matches, in which:
323 unique CDR3
7 unique J



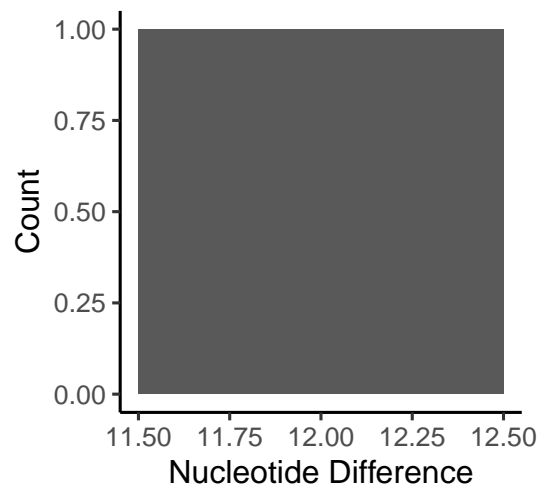
IGHV7–4–1*01

1 sequences assigned
No exact matches.



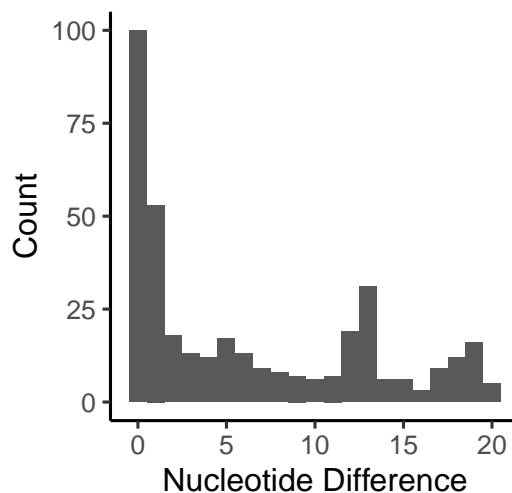
IGHV4/OR15–8*02

3 sequences assigned
No exact matches.

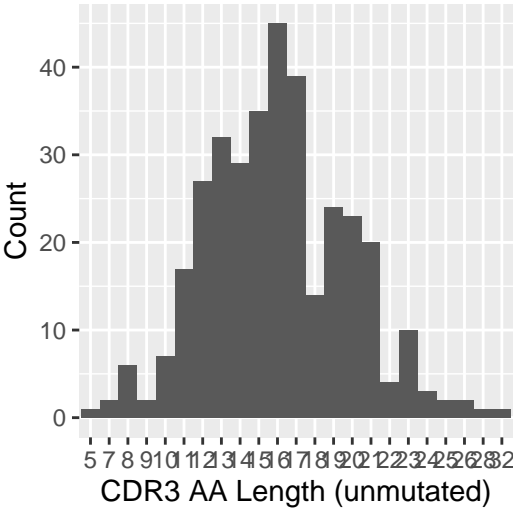


IGHV6–1*01

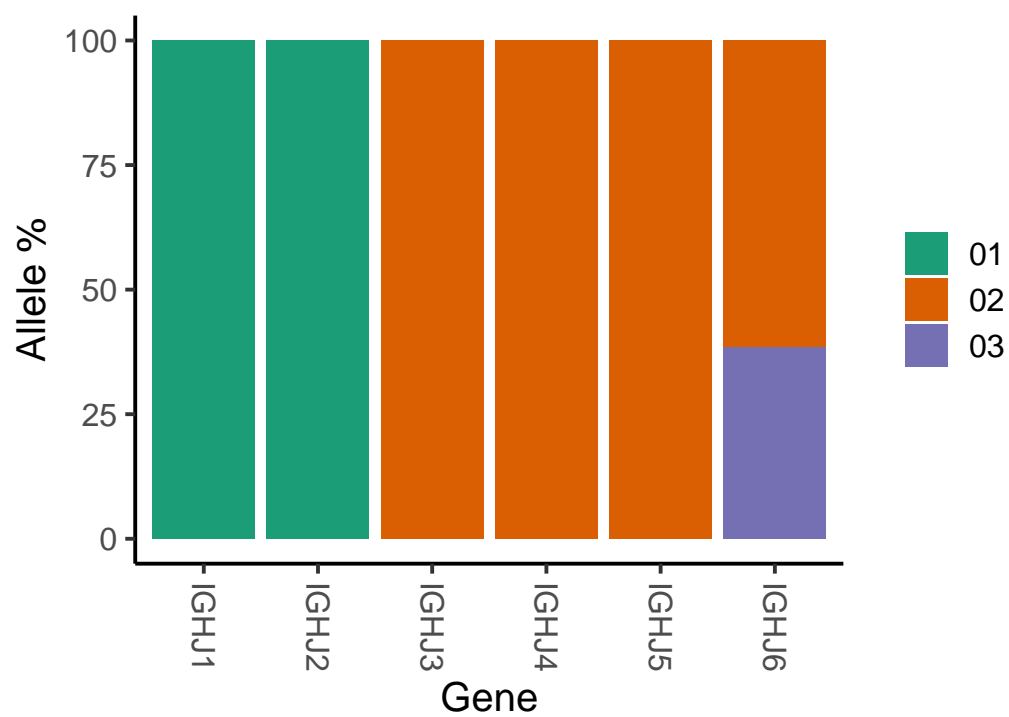
402 sequences assigned
100 (24.9%) exact matches, in which:
96 unique CDR3
7 unique J



IGHV1-69*08_C191T



Allele Usage



Sequence Count by IGHJ6 allele usage

