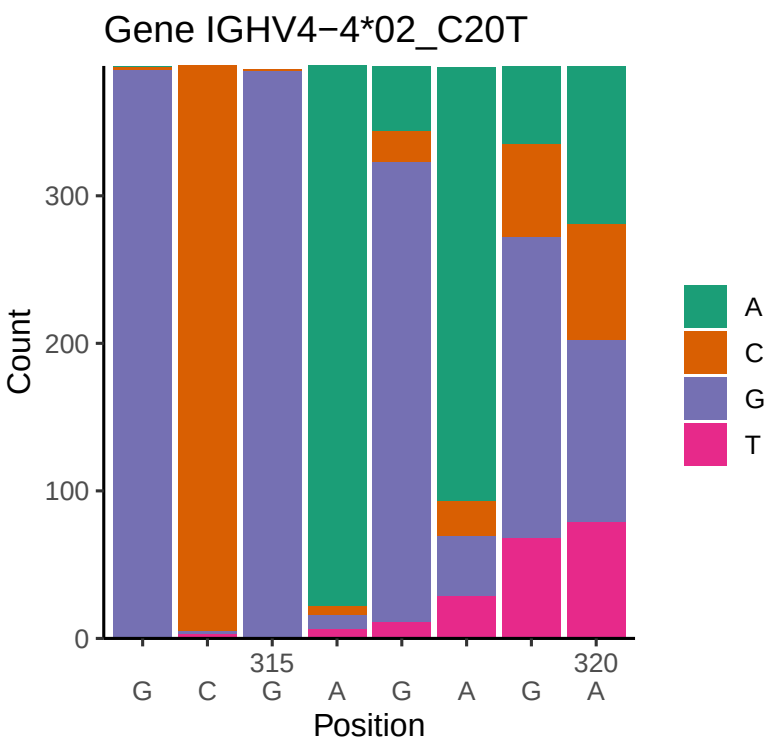
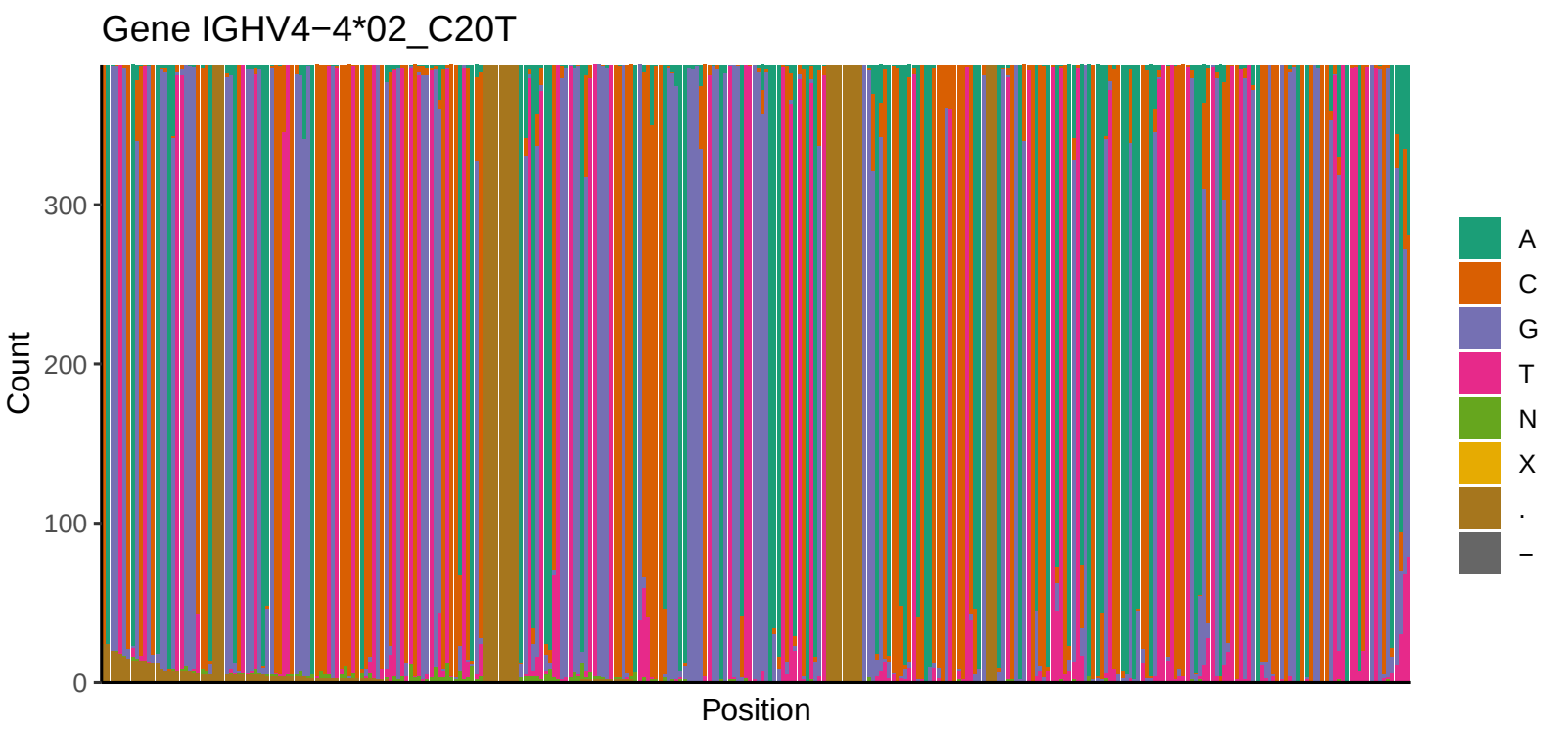
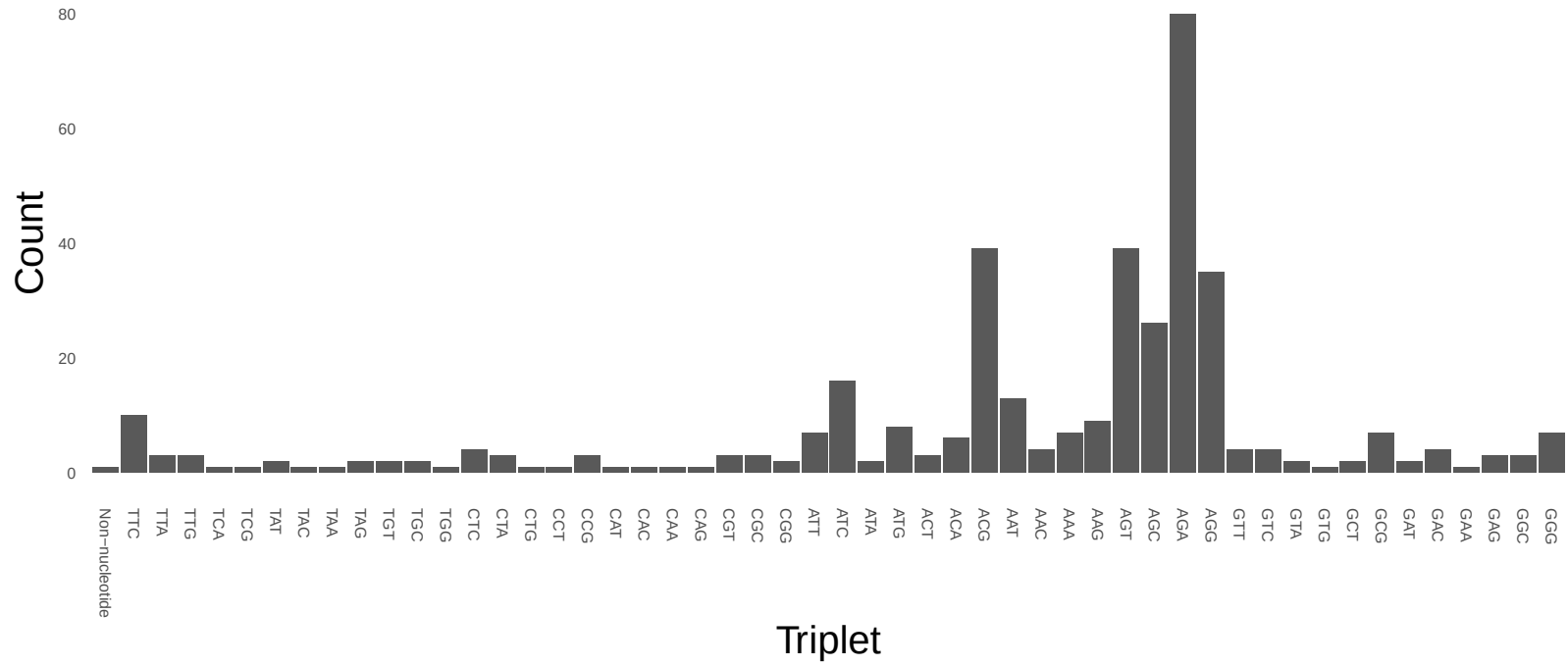

Gene IGHV4−4*02_C20T
Count
300
200
100
0
G C G A G A G A
315
320
Position
A
C
G
T

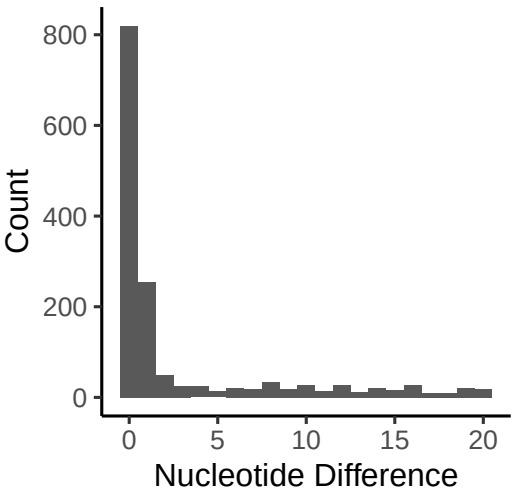

Gene IGHV4−4*02_C20T
Count
300
200
100
0
Position
A
C
G
T
N
X
.
–

IGHV4−4*02_C20T− Final 3 nucleotides as a triplet



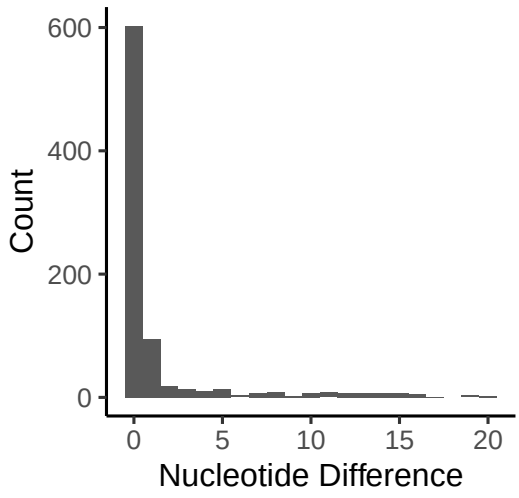
IGHV1−2*02

1822 sequences assigned
820 (45%) exact matches, in which:
808 unique CDR3
6 unique J



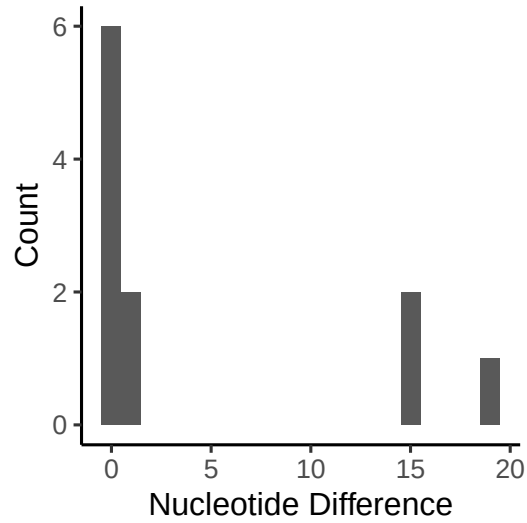
IGHV1−8*01

932 sequences assigned
603 (64.7%) exact matches, in which:
596 unique CDR3
7 unique J



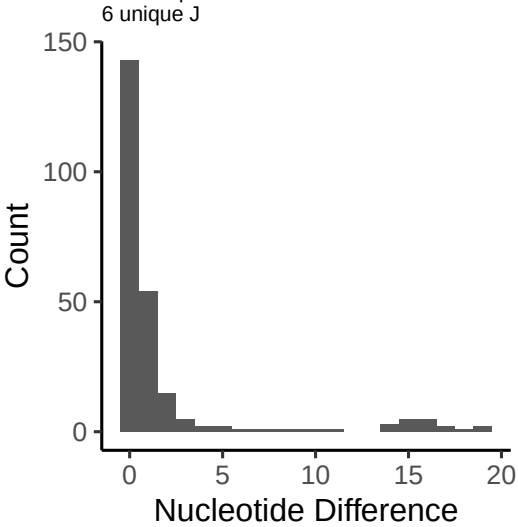
IGHV1−45*02

45 sequences assigned
6 (13.3%) exact matches, in which:
6 unique CDR3
3 unique J



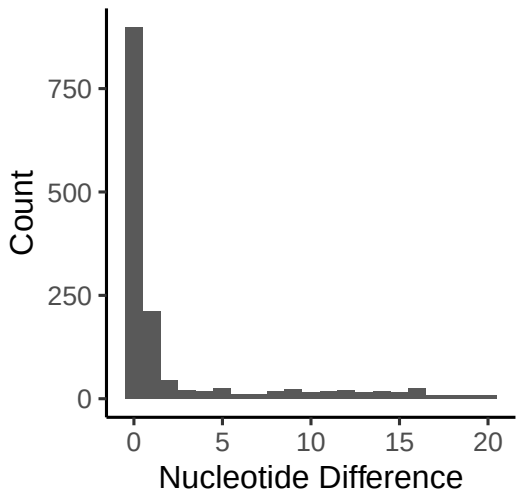
IGHV1−2*04

247 sequences assigned
143 (57.9%) exact matches, in which:
141 unique CDR3
6 unique J



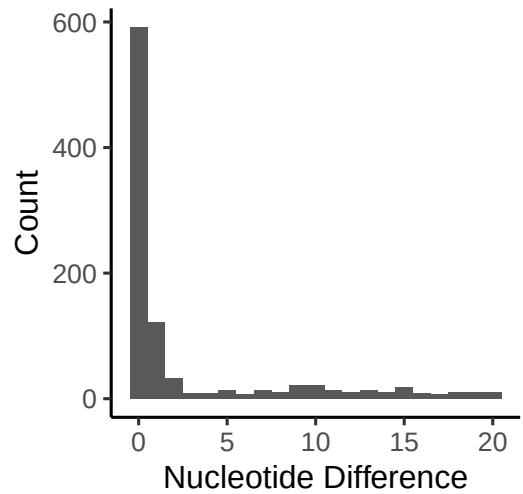
IGHV1−18*01

1633 sequences assigned
899 (55.1%) exact matches, in which:
890 unique CDR3
7 unique J



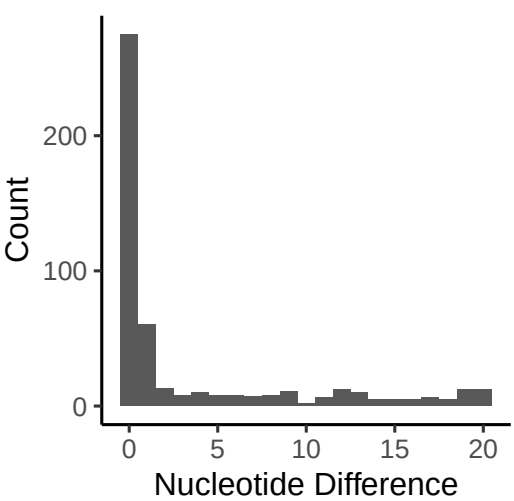
IGHV1−46*01

1194 sequences assigned
592 (49.6%) exact matches, in which:
583 unique CDR3
7 unique J



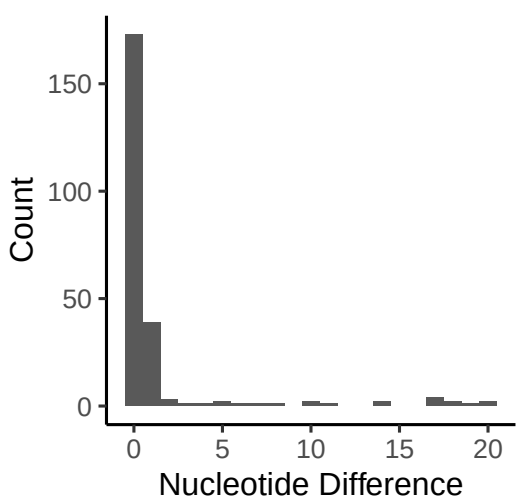
IGHV1−3*01

687 sequences assigned
275 (40%) exact matches, in which:
273 unique CDR3
6 unique J



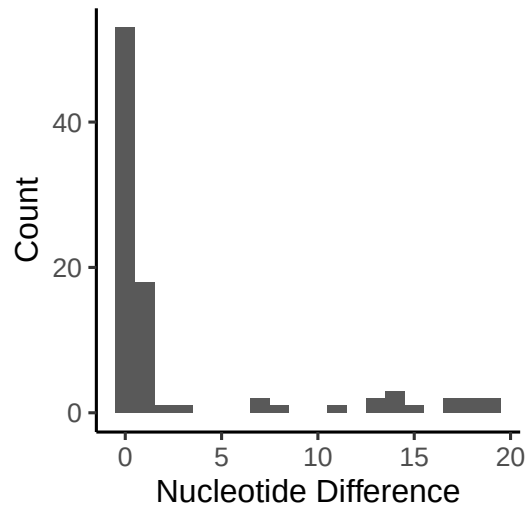
IGHV1−24*01

246 sequences assigned
173 (70.3%) exact matches, in which:
171 unique CDR3
7 unique J



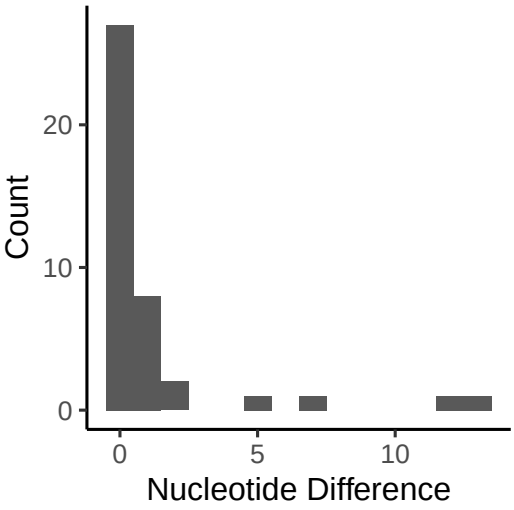
IGHV1−58*01

98 sequences assigned
53 (54.1%) exact matches, in which:
53 unique CDR3
5 unique J



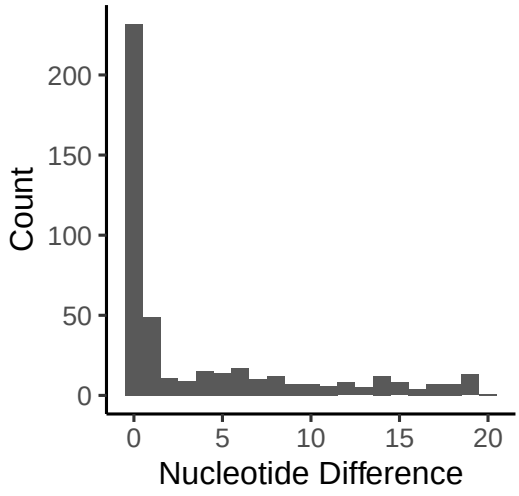
IGHV1−58*02

41 sequences assigned
27 (65.9%) exact matches, in which:
27 unique CDR3
5 unique J



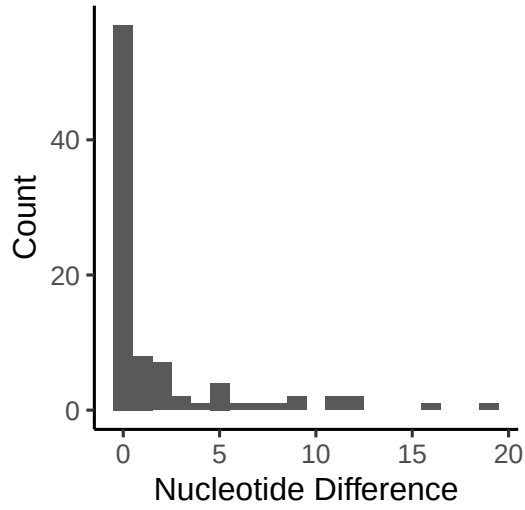
IGHV2−5*01

495 sequences assigned
232 (46.9%) exact matches, in which:
229 unique CDR3
6 unique J



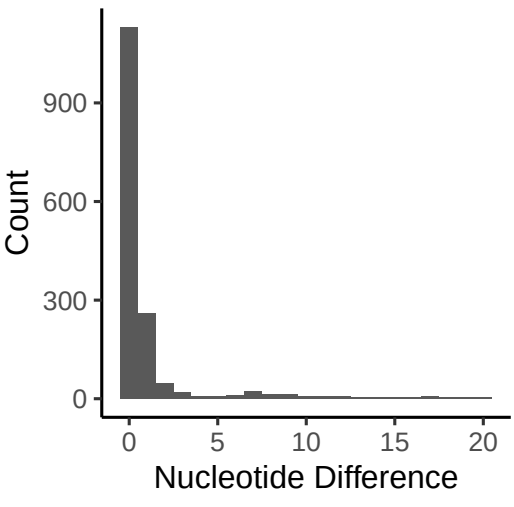
IGHV2−70*01

95 sequences assigned
57 (60%) exact matches, in which:
57 unique CDR3
5 unique J



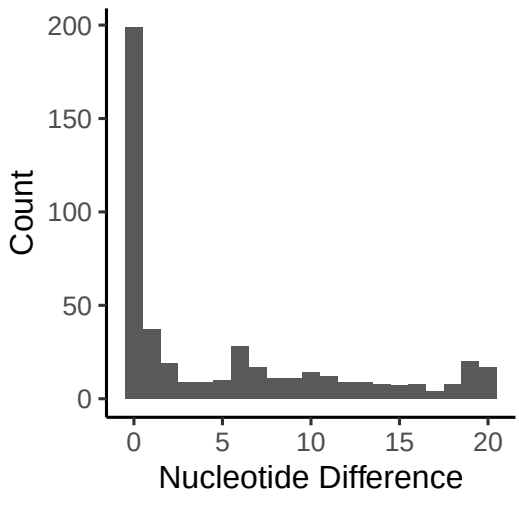
IGHV1−69*01

1760 sequences assigned
1131 (64.3%) exact matches, in which:
1116 unique CDR3
7 unique J



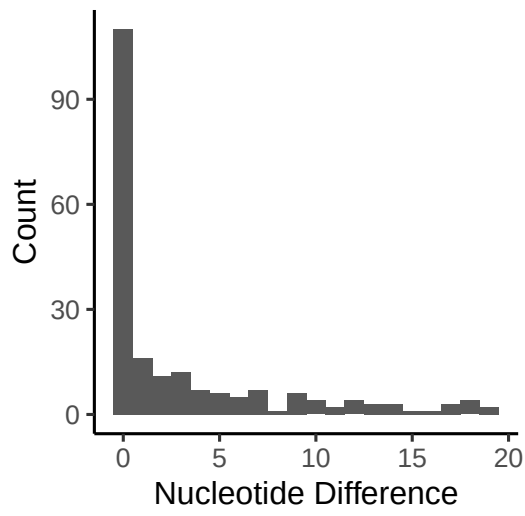
IGHV2−5*02

800 sequences assigned
199 (24.9%) exact matches, in which:
195 unique CDR3
6 unique J



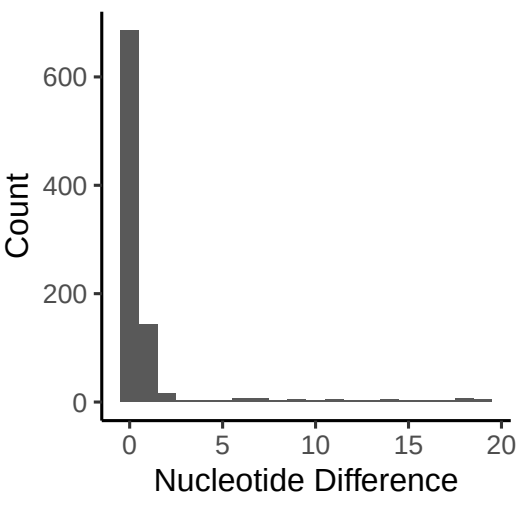
IGHV2−70*15

215 sequences assigned
110 (51.2%) exact matches, in which:
108 unique CDR3
5 unique J



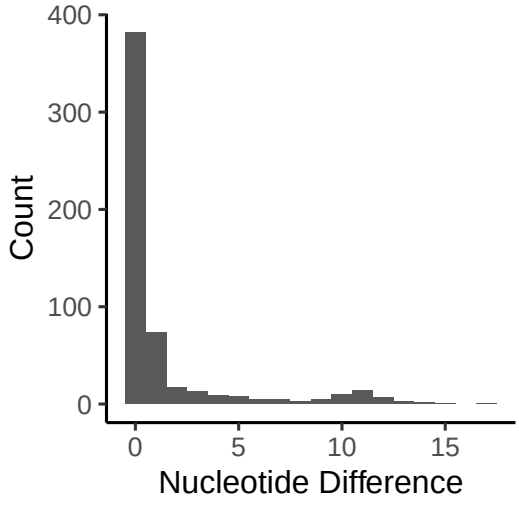
IGHV1−69*04

1157 sequences assigned
686 (59.3%) exact matches, in which:
678 unique CDR3
6 unique J



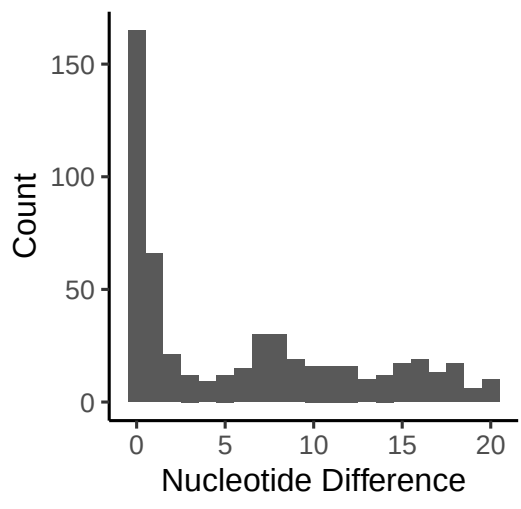
IGHV2−26*01

577 sequences assigned
382 (66.2%) exact matches, in which:
375 unique CDR3
7 unique J



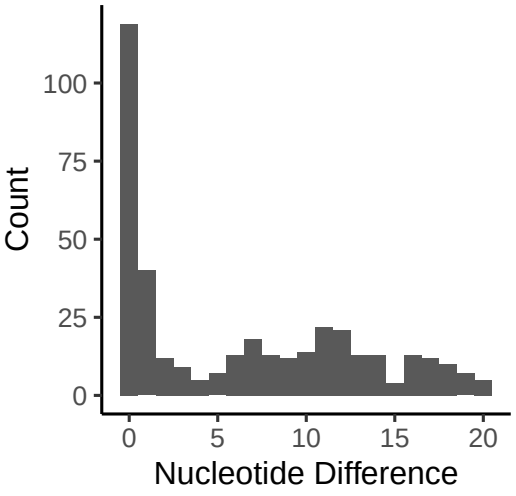
IGHV3−7*01

604 sequences assigned
165 (27.3%) exact matches, in which:
161 unique CDR3
6 unique J



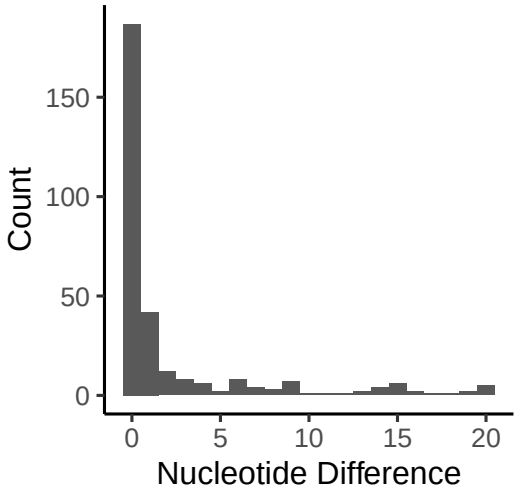
IGHV3−7*03

445 sequences assigned
119 (26.7%) exact matches, in which:
119 unique CDR3
5 unique J



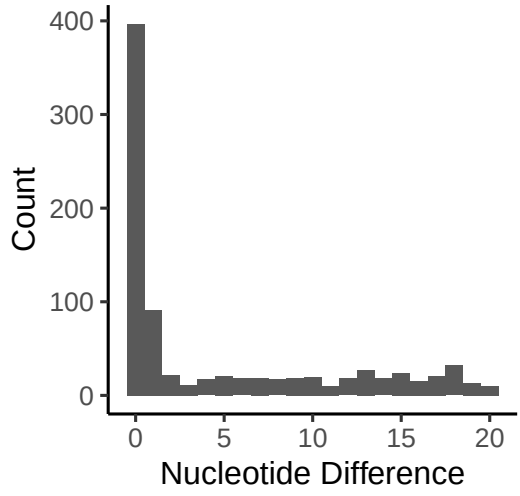
IGHV3−11*06

331 sequences assigned
187 (56.5%) exact matches, in which:
184 unique CDR3
6 unique J



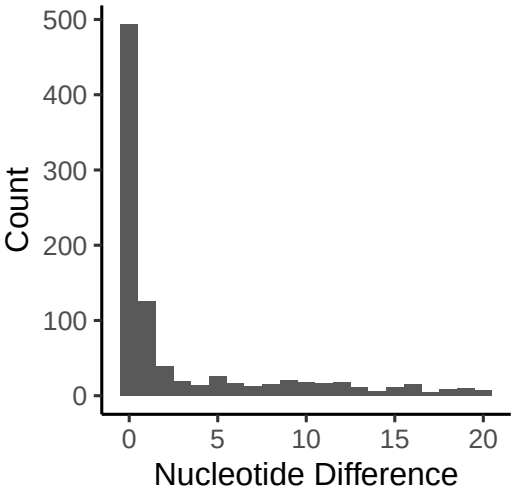
IGHV3−15*01

983 sequences assigned
397 (40.4%) exact matches, in which:
391 unique CDR3
7 unique J



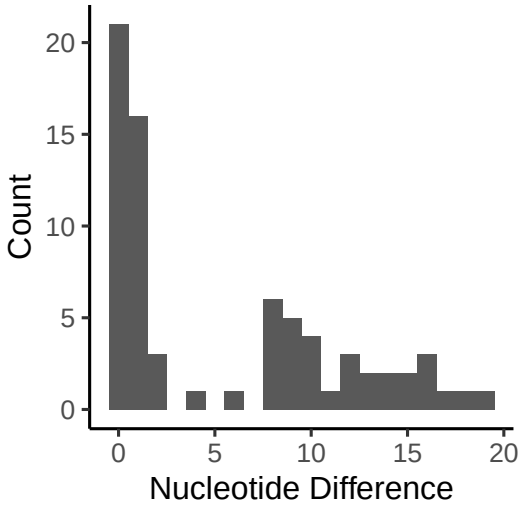
IGHV3−9*01

1031 sequences assigned
494 (47.9%) exact matches, in which:
488 unique CDR3
6 unique J



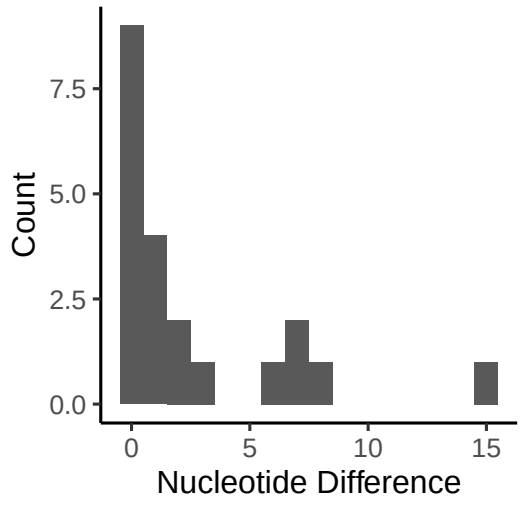
IGHV3−13*01

75 sequences assigned
21 (28%) exact matches, in which:
21 unique CDR3
5 unique J



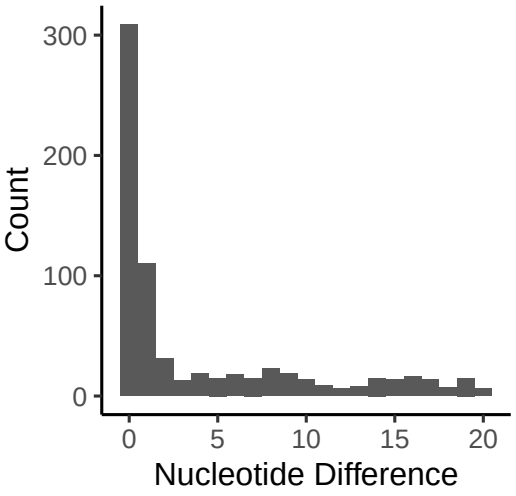
IGHV3−20*01

21 sequences assigned
9 (42.9%) exact matches, in which:
9 unique CDR3
3 unique J



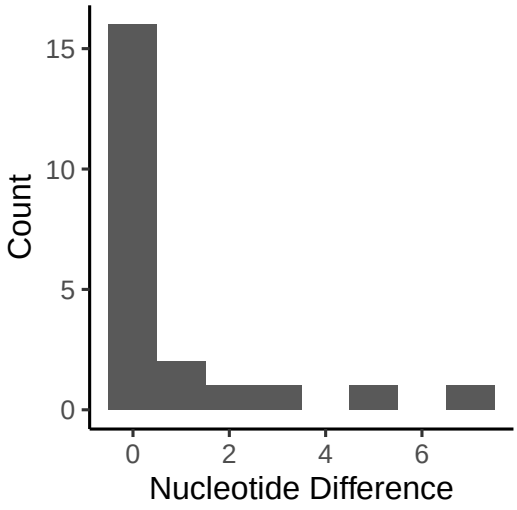
IGHV3−11*01

743 sequences assigned
309 (41.6%) exact matches, in which:
305 unique CDR3
7 unique J



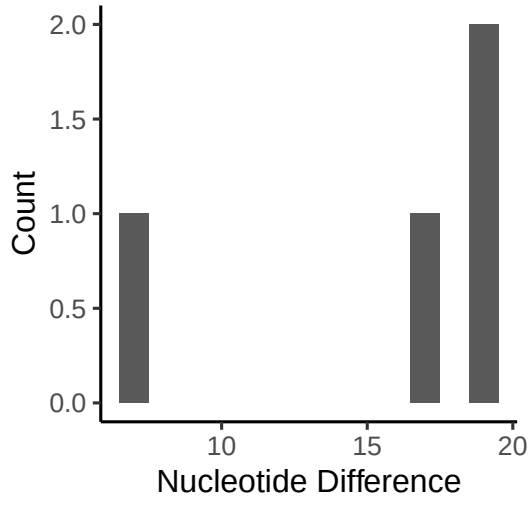
IGHV3−13*05

22 sequences assigned
16 (72.7%) exact matches, in which:
16 unique CDR3
6 unique J



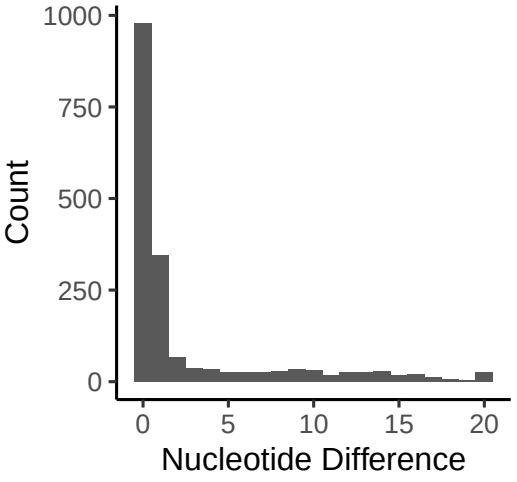
IGHV3−20*04

10 sequences assigned
No exact matches.



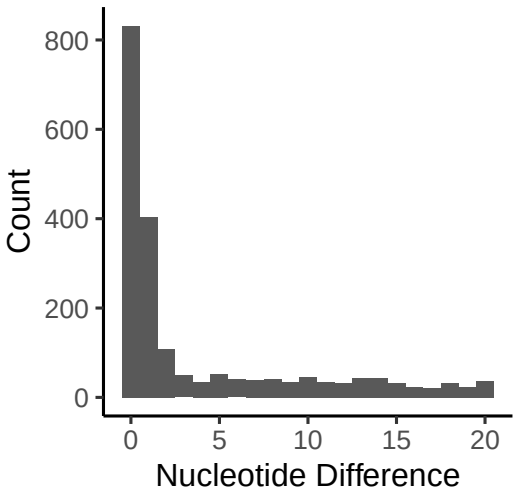
IGHV3−21*01

1954 sequences assigned
978 (50.1%) exact matches, in which:
960 unique CDR3
7 unique J



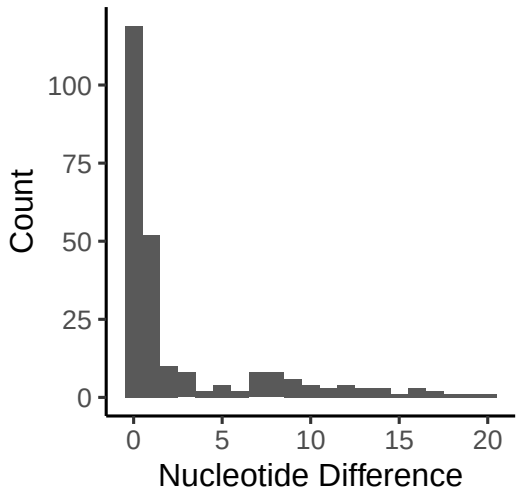
IGHV3−30*18

2522 sequences assigned
832 (33%) exact matches, in which:
829 unique CDR3
7 unique J



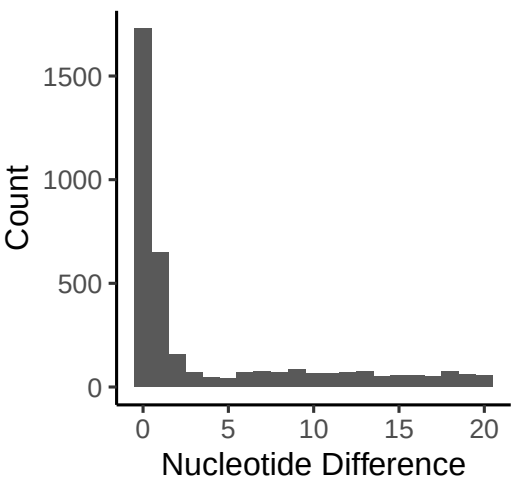
IGHV3−43*02

271 sequences assigned
119 (43.9%) exact matches, in which:
119 unique CDR3
6 unique J



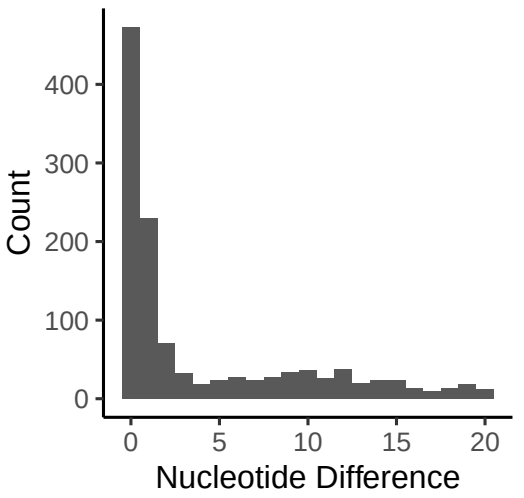
IGHV3−23*01

4362 sequences assigned
1728 (39.6%) exact matches, in which:
1709 unique CDR3
7 unique J



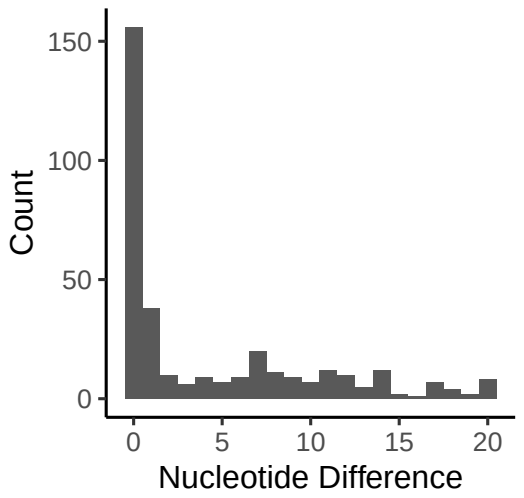
IGHV3−33*01

1412 sequences assigned
473 (33.5%) exact matches, in which:
472 unique CDR3
7 unique J



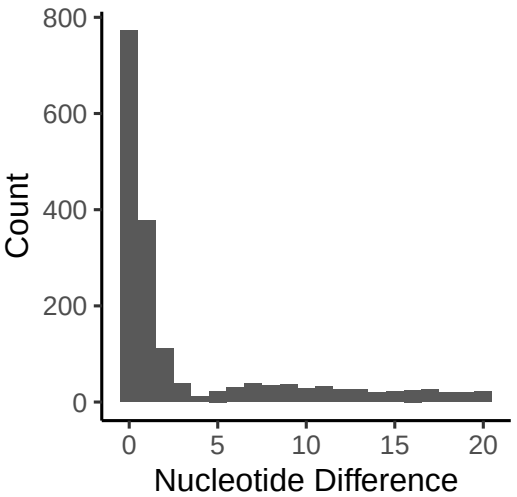
IGHV3−48*02

374 sequences assigned
156 (41.7%) exact matches, in which:
155 unique CDR3
6 unique J



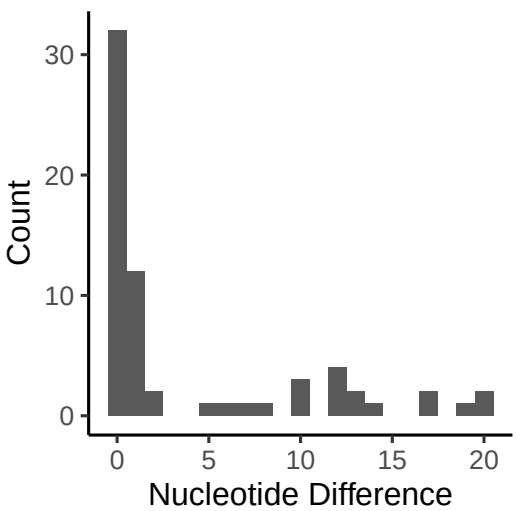
IGHV3−30−3*01

2808 sequences assigned
773 (27.5%) exact matches, in which:
764 unique CDR3
7 unique J



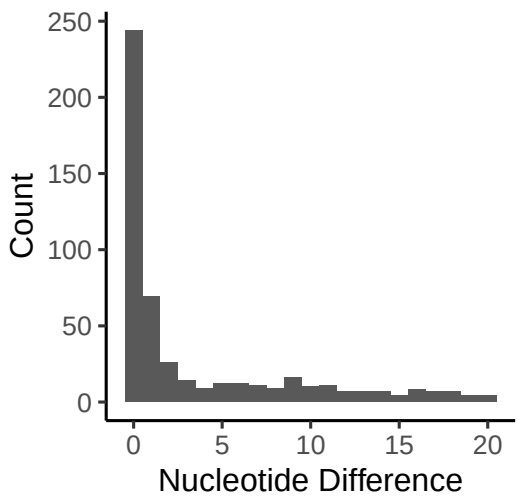
IGHV3−43*01

80 sequences assigned
32 (40%) exact matches, in which:
32 unique CDR3
5 unique J



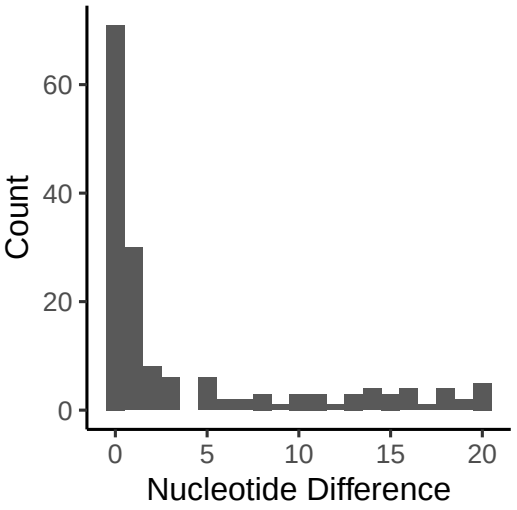
IGHV3−48*03

543 sequences assigned
244 (44.9%) exact matches, in which:
244 unique CDR3
6 unique J



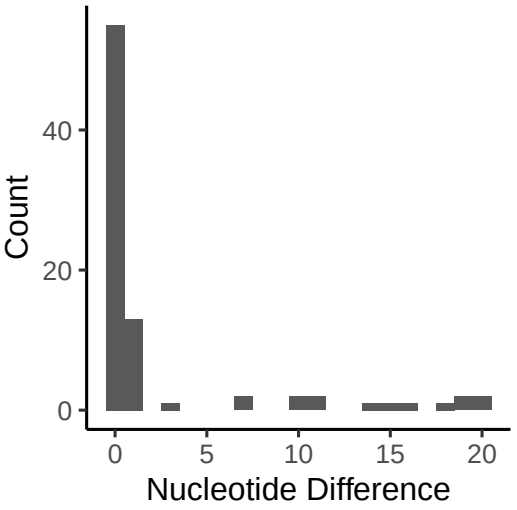
IGHV3−49*04

216 sequences assigned
71 (32.9%) exact matches, in which:
65 unique CDR3
5 unique J



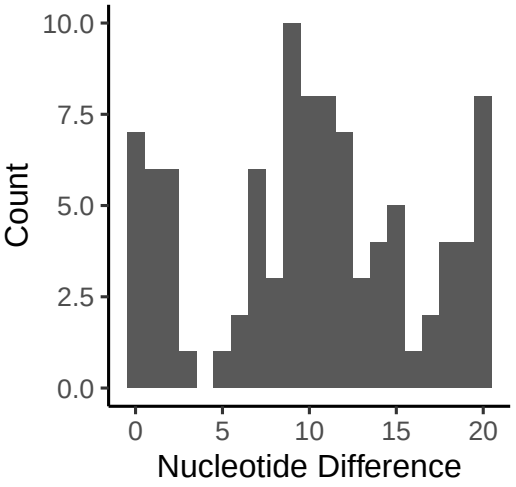
IGHV3−53*04

84 sequences assigned
55 (65.5%) exact matches, in which:
54 unique CDR3
5 unique J



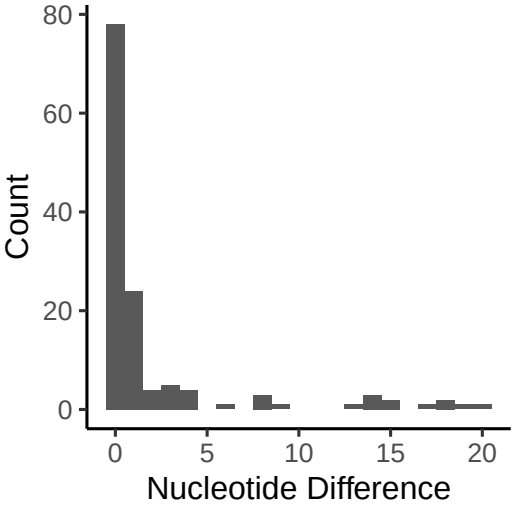
IGHV3−72*01

116 sequences assigned
7 (6%) exact matches, in which:
7 unique CDR3
3 unique J



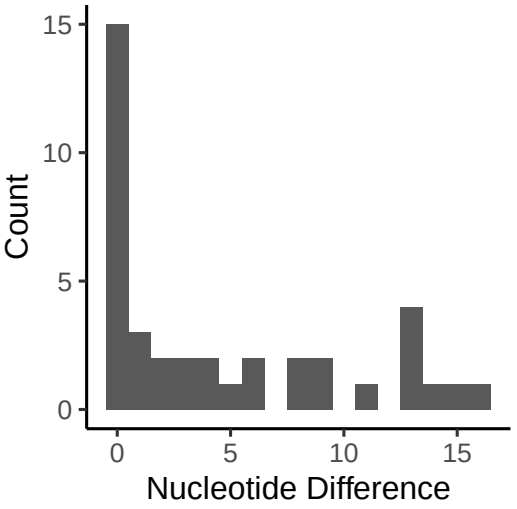
IGHV3−49*05

185 sequences assigned
78 (42.2%) exact matches, in which:
78 unique CDR3
6 unique J



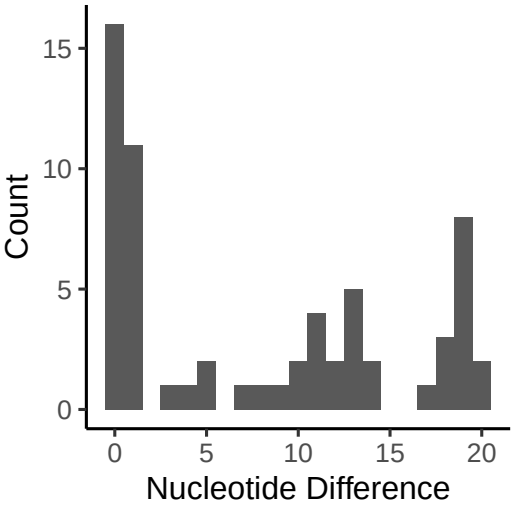
IGHV3−64*01

55 sequences assigned
15 (27.3%) exact matches, in which:
15 unique CDR3
3 unique J



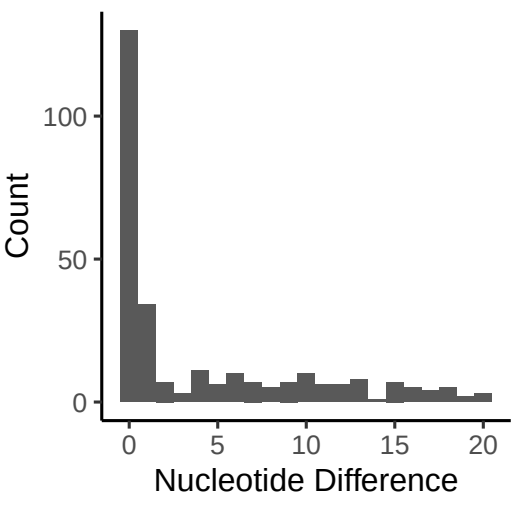
IGHV3−73*01

91 sequences assigned
16 (17.6%) exact matches, in which:
16 unique CDR3
4 unique J



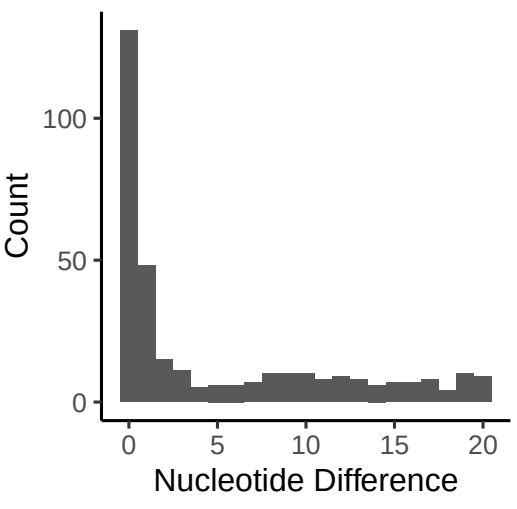
IGHV3−53*01

376 sequences assigned
130 (34.6%) exact matches, in which:
128 unique CDR3
5 unique J



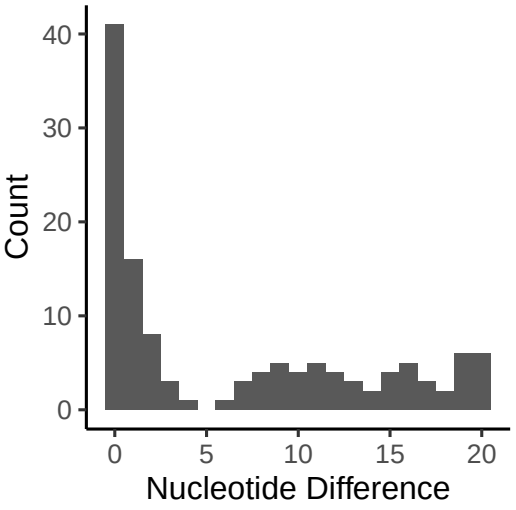
IGHV3−66*01

371 sequences assigned
131 (35.3%) exact matches, in which:
130 unique CDR3
6 unique J



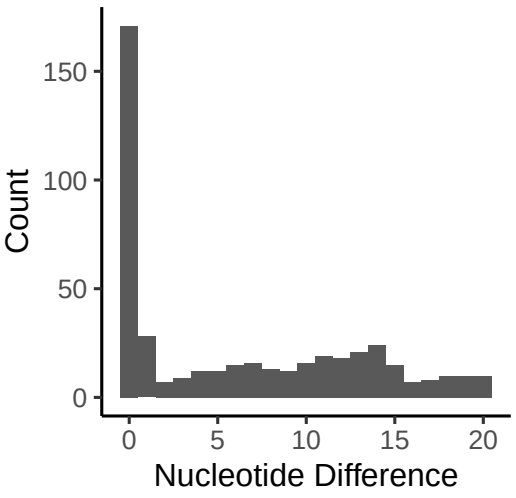
IGHV3−73*02

145 sequences assigned
41 (28.3%) exact matches, in which:
39 unique CDR3
5 unique J



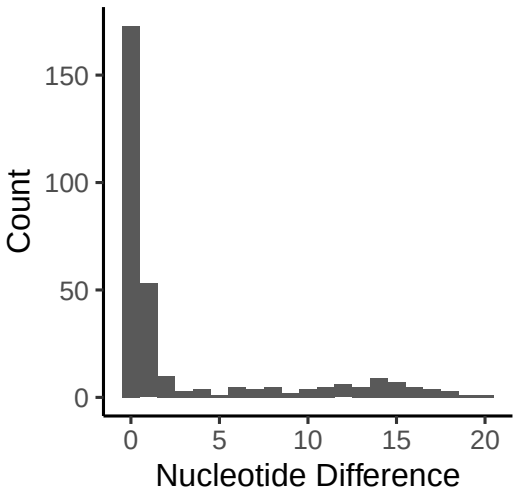
IGHV3−74*01

553 sequences assigned
171 (30.9%) exact matches, in which:
170 unique CDR3
7 unique J



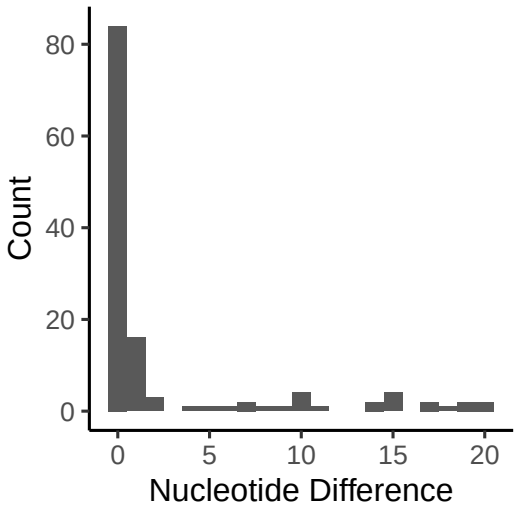
IGHV4−4*02_C20T

388 sequences assigned
173 (44.6%) exact matches, in which:
170 unique CDR3
6 unique J



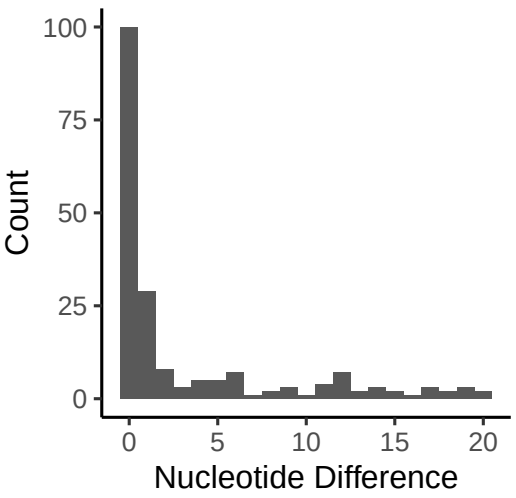
IGHV4−30−2*01

139 sequences assigned
84 (60.4%) exact matches, in which:
84 unique CDR3
6 unique J



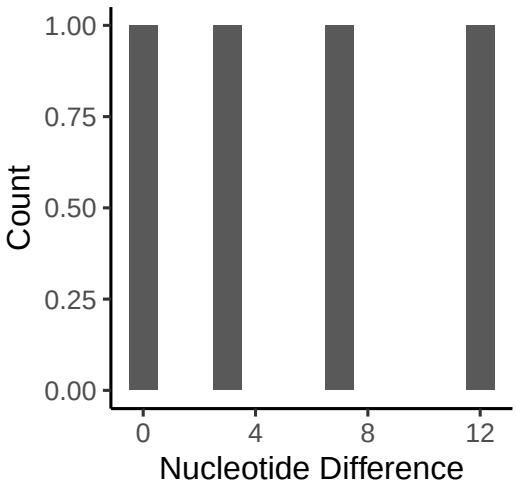
IGHV3−64D*06

217 sequences assigned
100 (46.1%) exact matches, in which:
100 unique CDR3
6 unique J



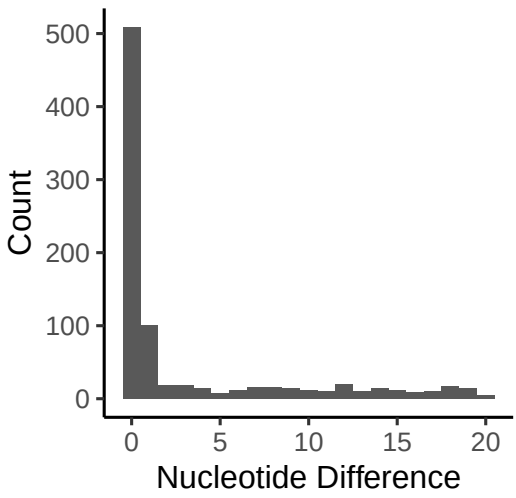
IGHV4−28*01

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



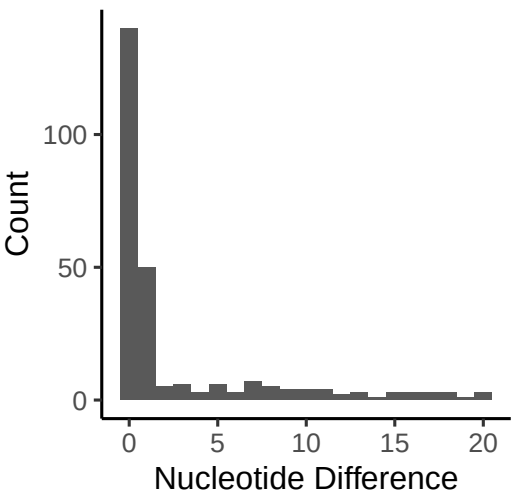
IGHV4−31*03

985 sequences assigned
509 (51.7%) exact matches, in which:
508 unique CDR3
7 unique J



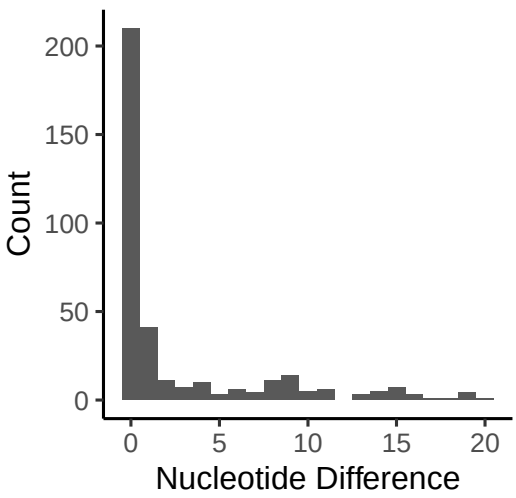
IGHV4−4*07

286 sequences assigned
140 (49%) exact matches, in which:
139 unique CDR3
5 unique J



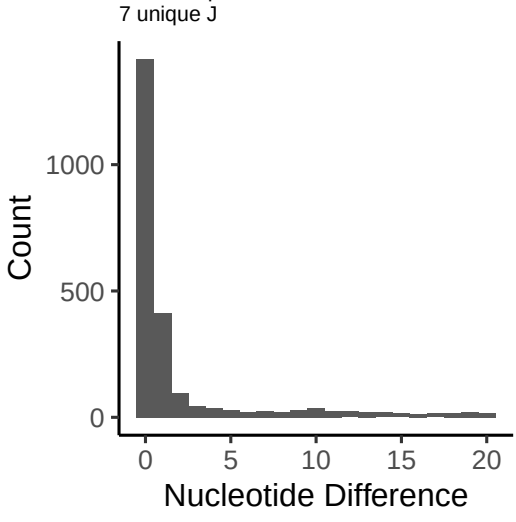
IGHV4−30−4*01

397 sequences assigned
210 (52.9%) exact matches, in which:
207 unique CDR3
5 unique J



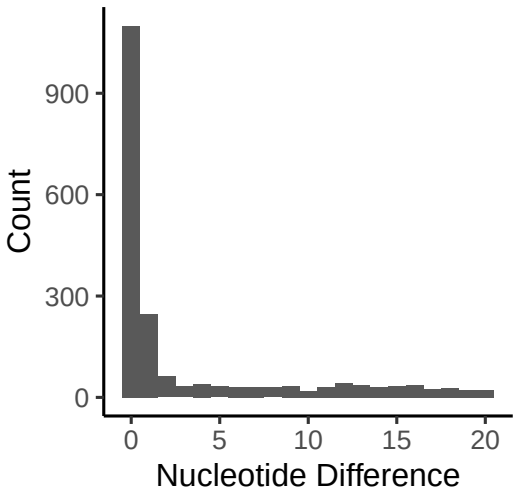
IGHV4−34*01

2663 sequences assigned
1418 (53.2%) exact matches, in which:
1390 unique CDR3
7 unique J



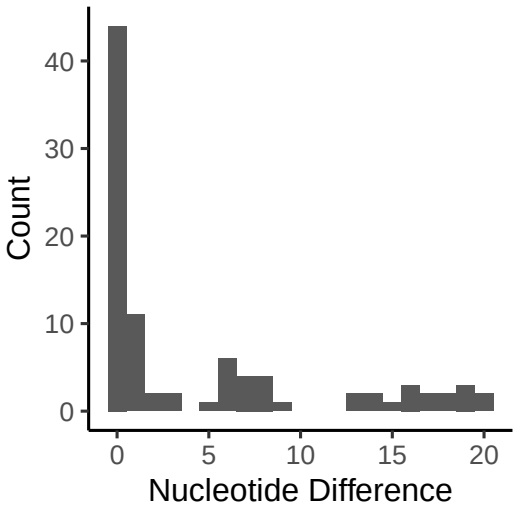
IGHV4−39*01

2355 sequences assigned
1100 (46.7%) exact matches, in which:
1088 unique CDR3
7 unique J



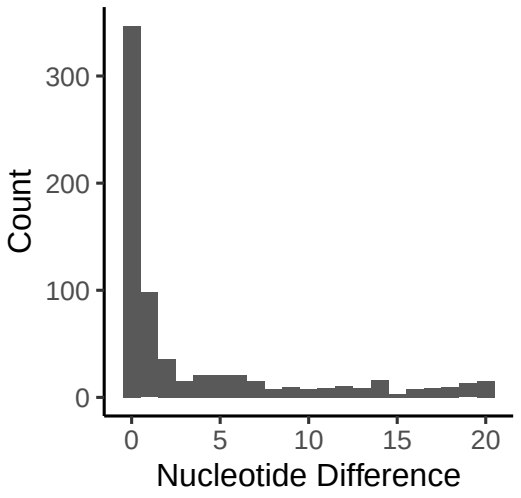
IGHV4−61*01

109 sequences assigned
44 (40.4%) exact matches, in which:
44 unique CDR3
5 unique J



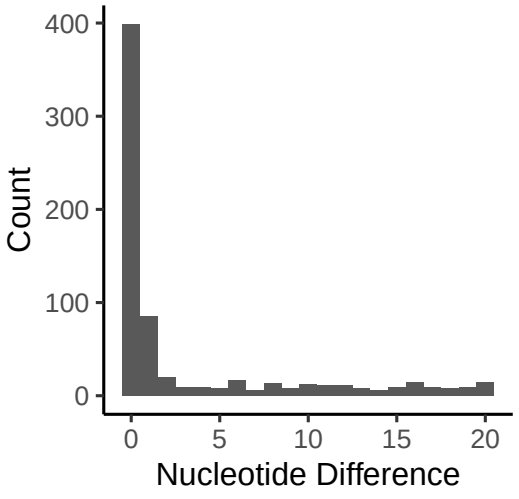
IGHV5−51*01

853 sequences assigned
347 (40.7%) exact matches, in which:
341 unique CDR3
6 unique J



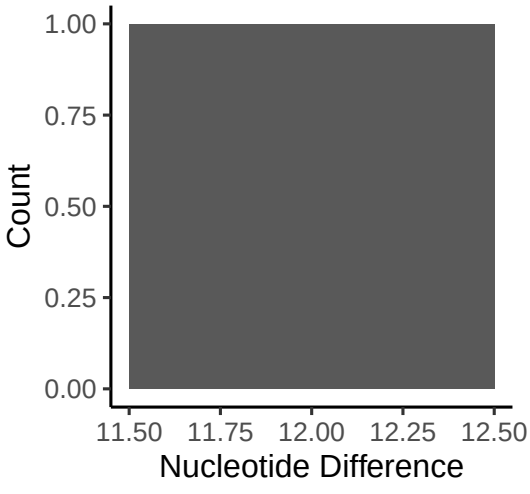
IGHV4−59*01

810 sequences assigned
399 (49.3%) exact matches, in which:
396 unique CDR3
7 unique J



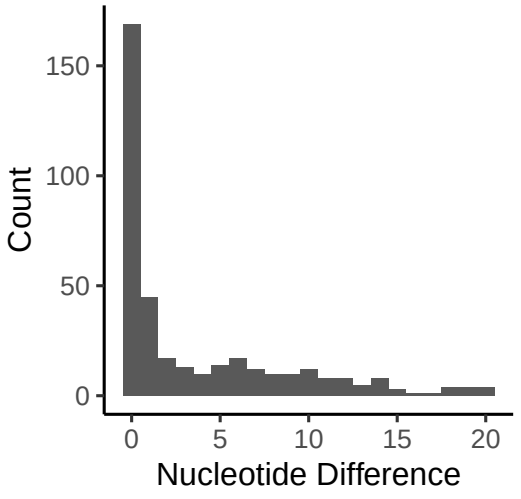
IGHV1/OR15−9*01

1 sequences assigned
No exact matches.



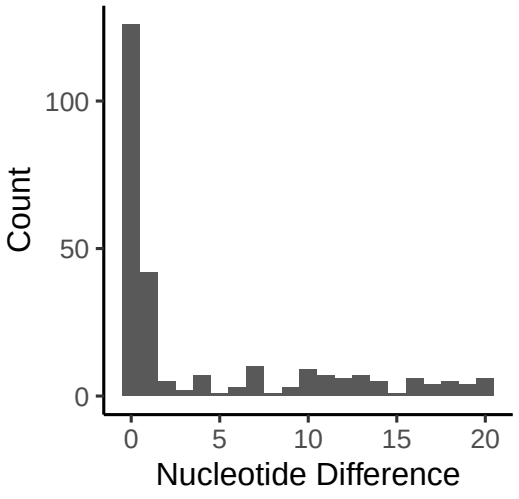
IGHV6−1*01

393 sequences assigned
169 (43%) exact matches, in which:
168 unique CDR3
7 unique J



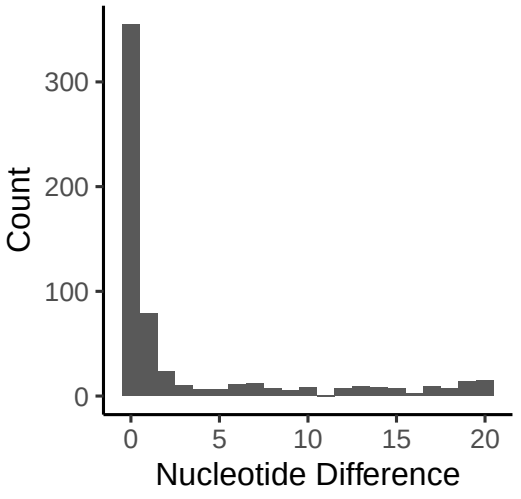
IGHV4−59*08

308 sequences assigned
126 (40.9%) exact matches, in which:
122 unique CDR3
6 unique J



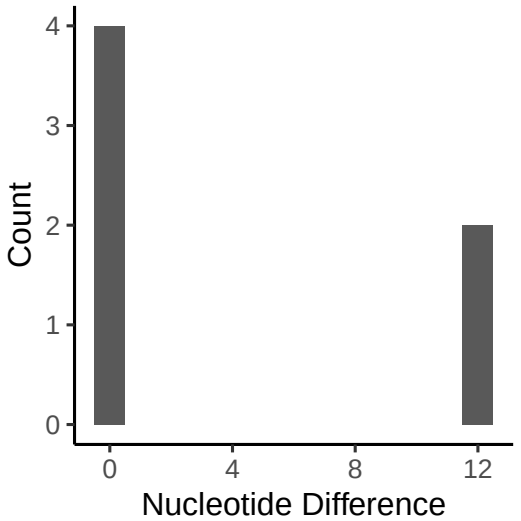
IGHV5−10−1*03

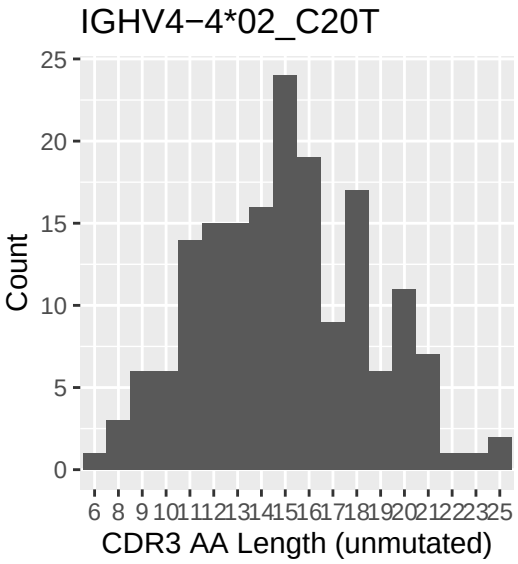
704 sequences assigned
355 (50.4%) exact matches, in which:
353 unique CDR3
6 unique J

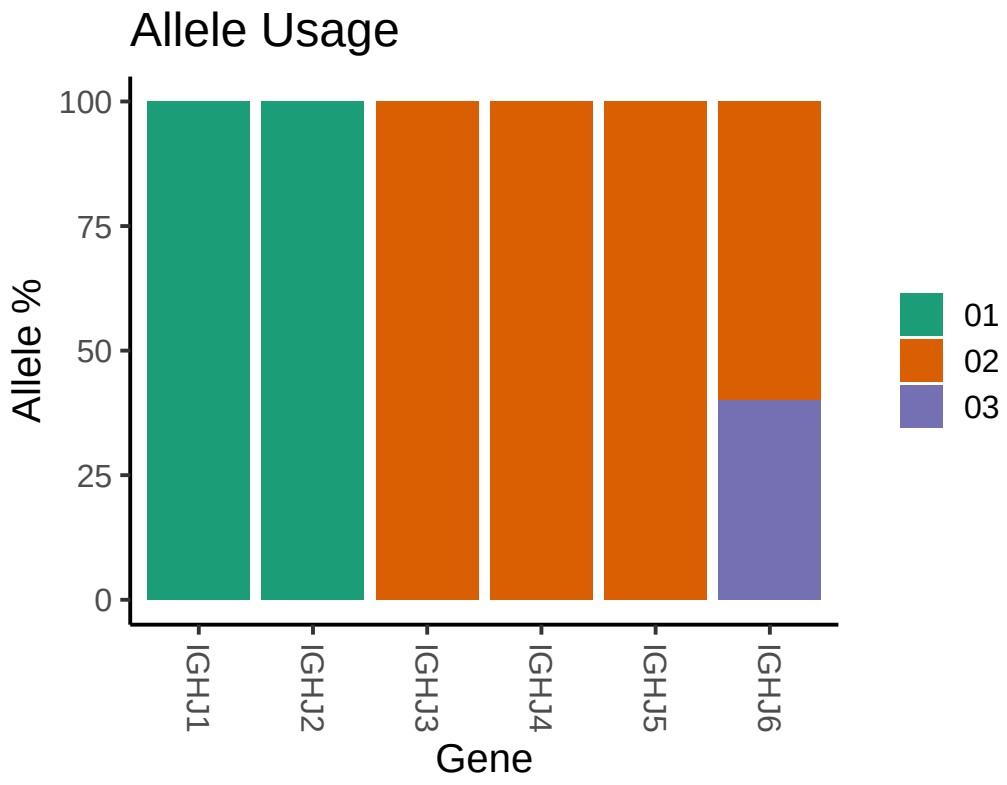
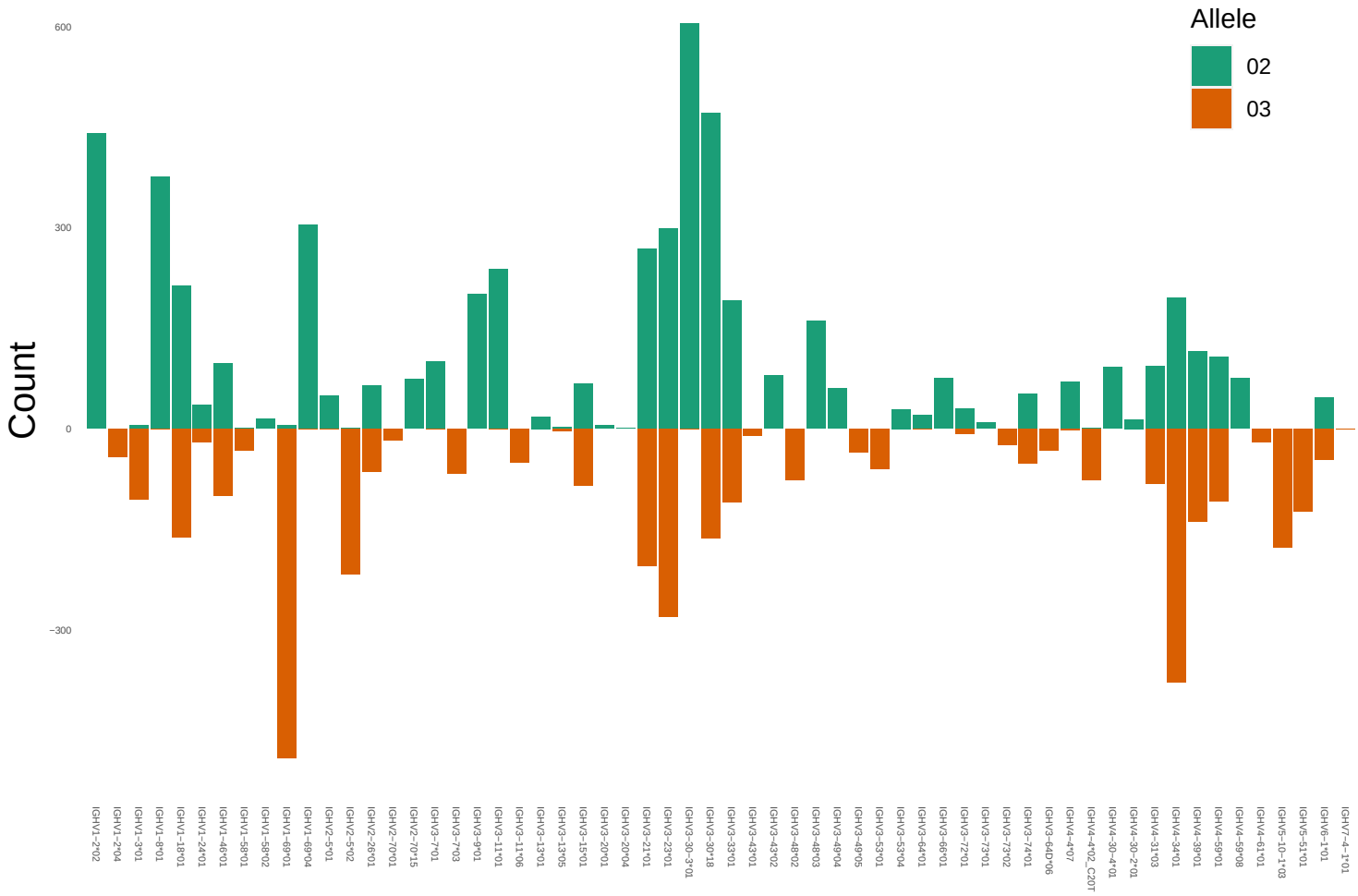


IGHV7−4−1*01

6 sequences assigned
4 (66.7%) exact matches, in which:
4 unique CDR3
3 unique J




IGHV4−4*02_C20T
Count
25
20
15
10
5
0
6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 25
CDR3 AA Length (unmutated)


Allele Usage
100
75
50
25
0
Allele %
IGHJ1
IGHJ2
IGHJ3
IGHJ4
IGHJ5
IGHJ6
Gene
01
02
03

Sequence Count by IGHJ6 allele usage