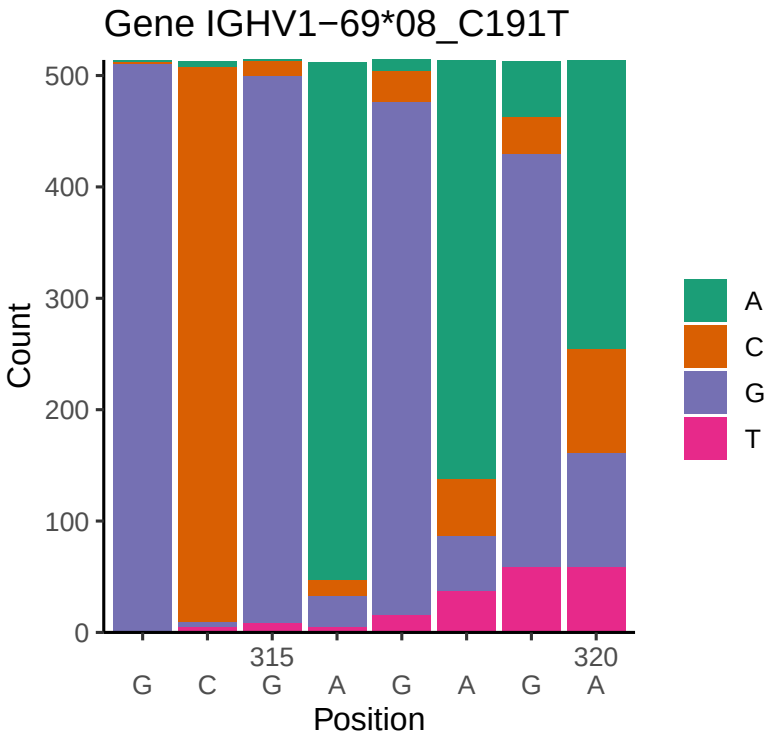
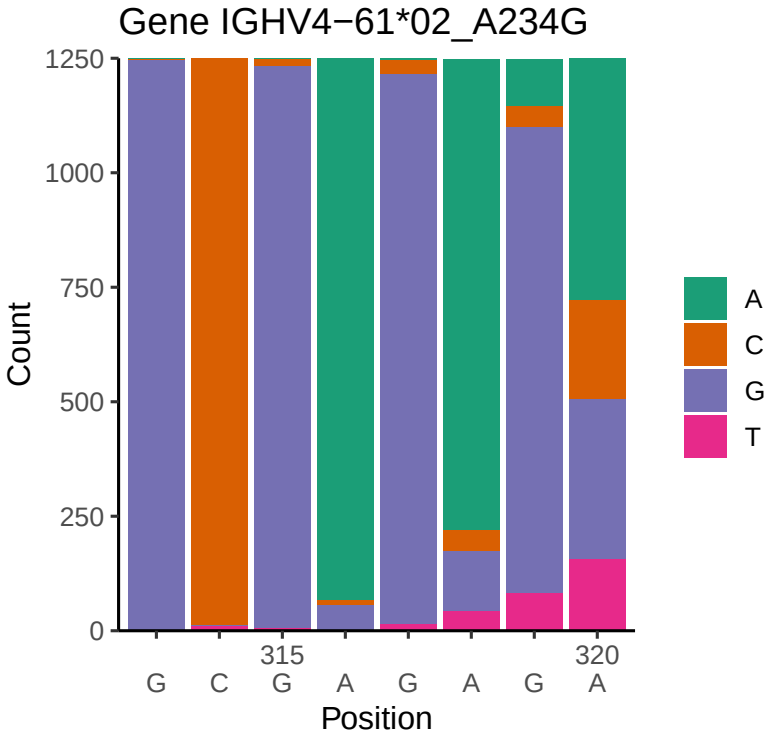
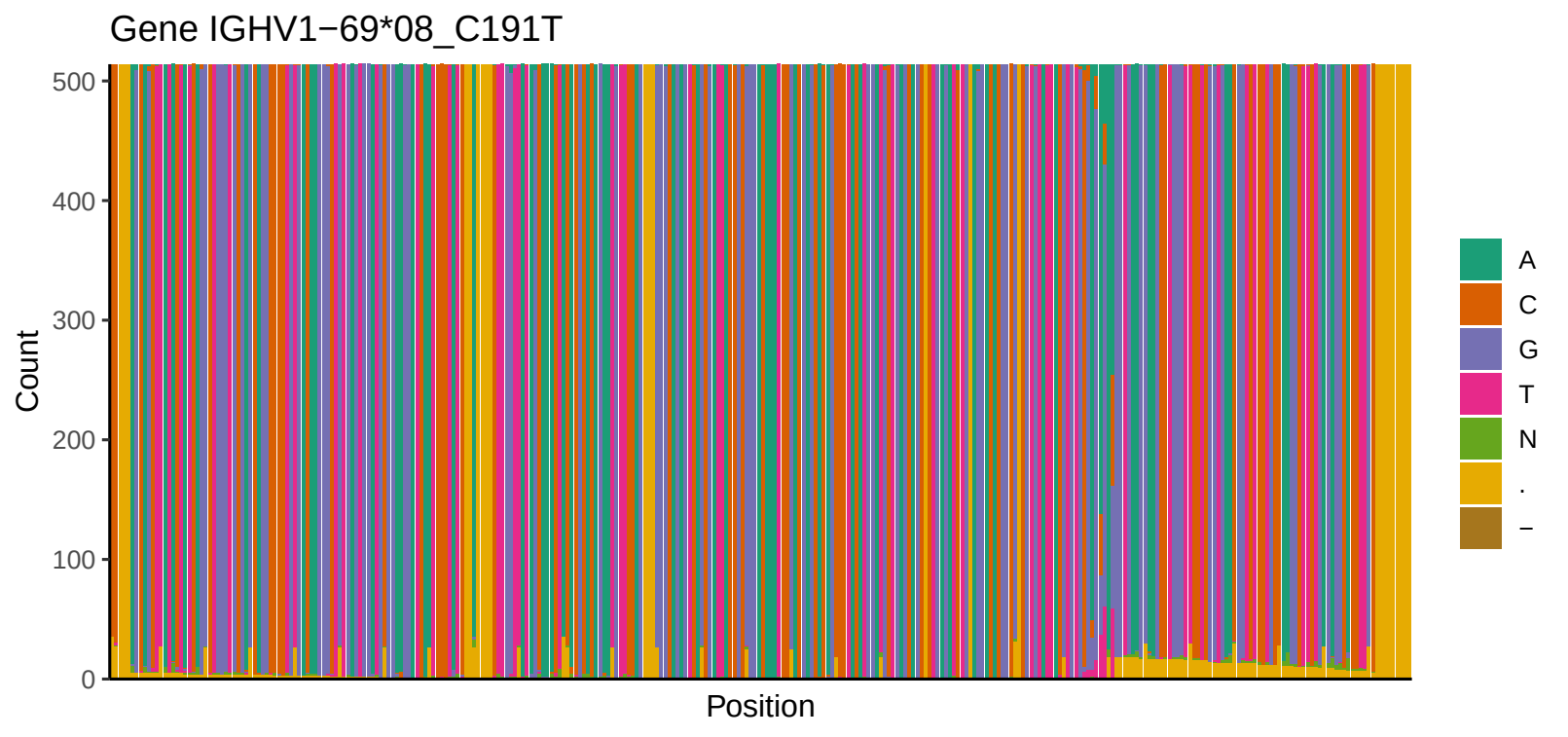
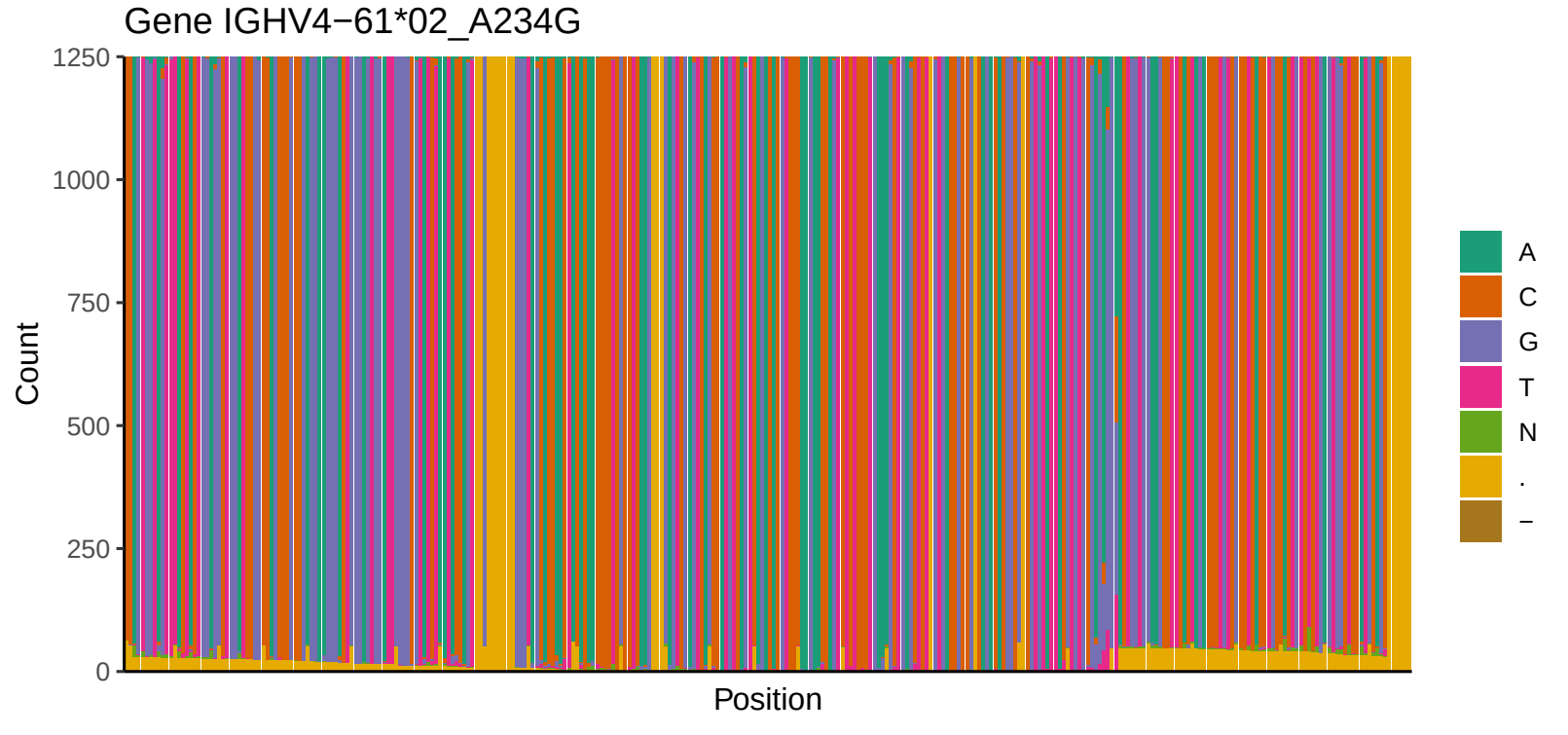
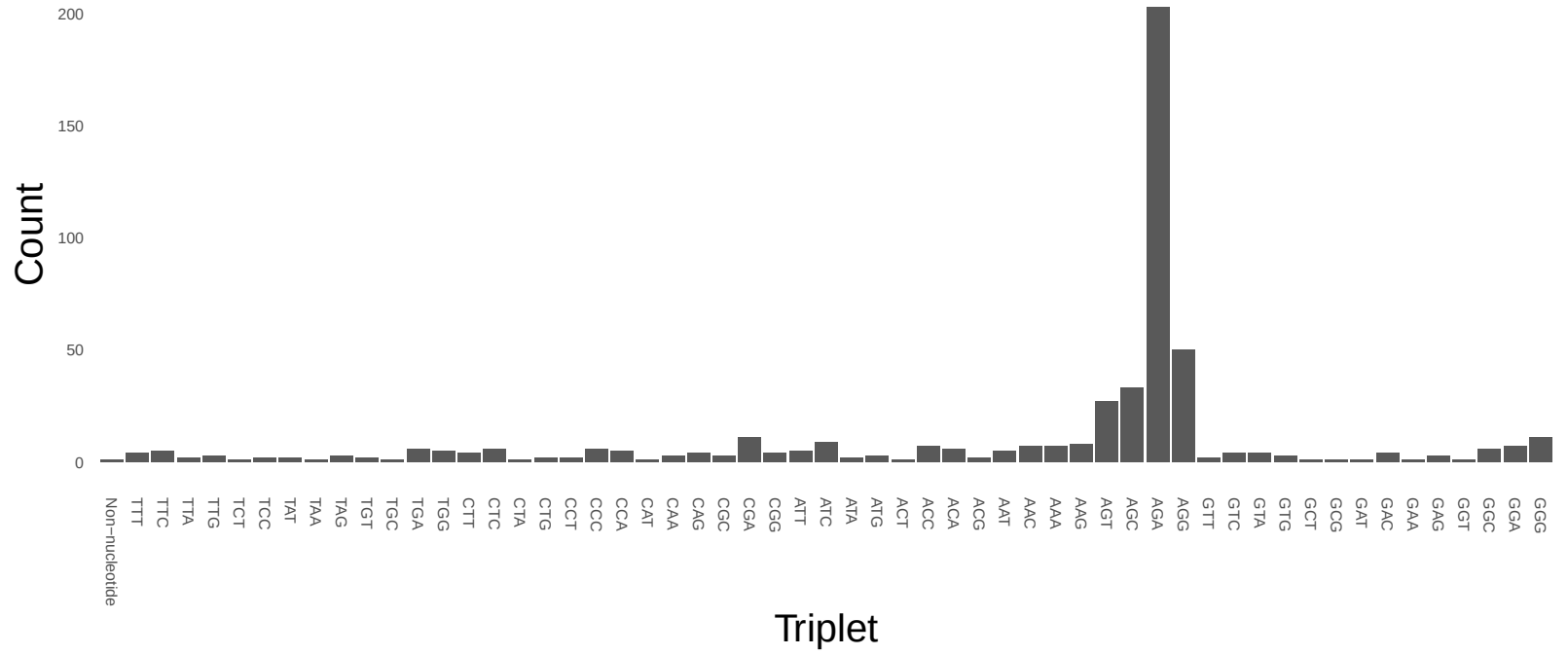

Gene IGHV1−69*08_C191T
Count
500
400
300
200
100
0
315
320
G C G A G A G A
Position
A
C
G
T


Gene IGHV4−61*02_A234G
Count
1250
1000
750
500
250
0
315
320
G C G A G A G A
Position
A
C
G
T

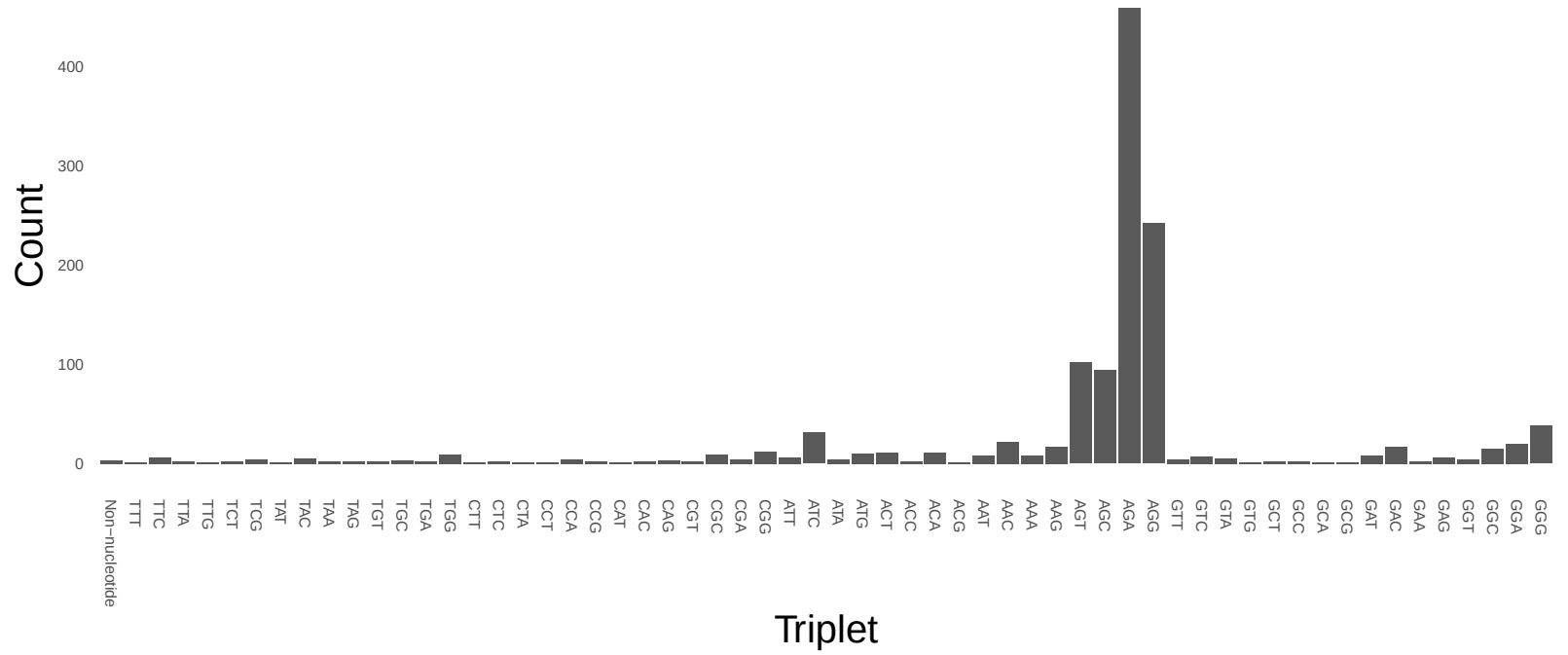

Gene IGHV1−69*08_C191T
Count
Position
0
100
200
300
400
500
A
C
G
T
N
.
–


Gene IGHV4−61*02_A234G
Count
Position
0
250
500
750
1000
1250
A
C
G
T
N
.
–

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

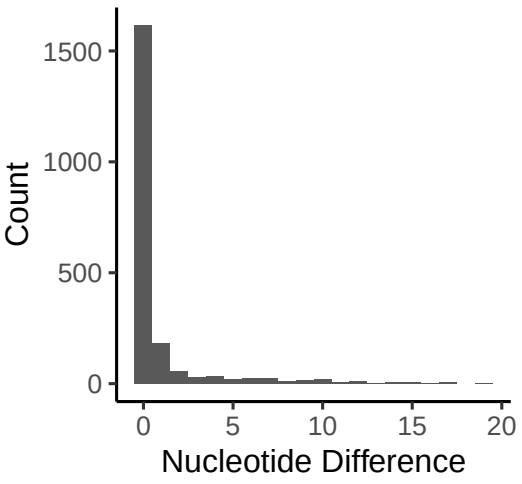


IGHV4−61*02_A234G− Final 3 nucleotides as a triplet



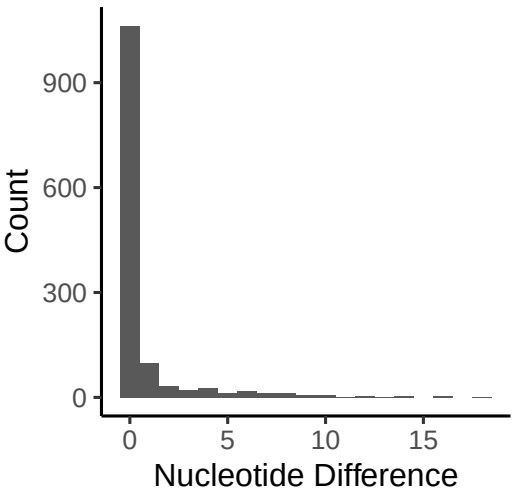
IGHV1−2*02

2087 sequences assigned
1615 (77.4%) exact matches, in which:
1472 unique CDR3
6 unique J



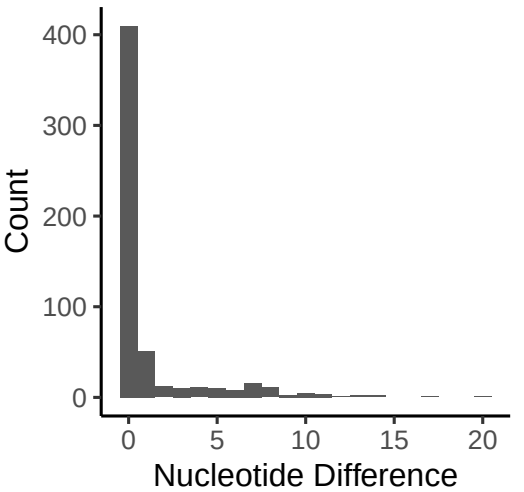
IGHV1−18*01

1333 sequences assigned
1063 (79.7%) exact matches, in which:
977 unique CDR3
6 unique J



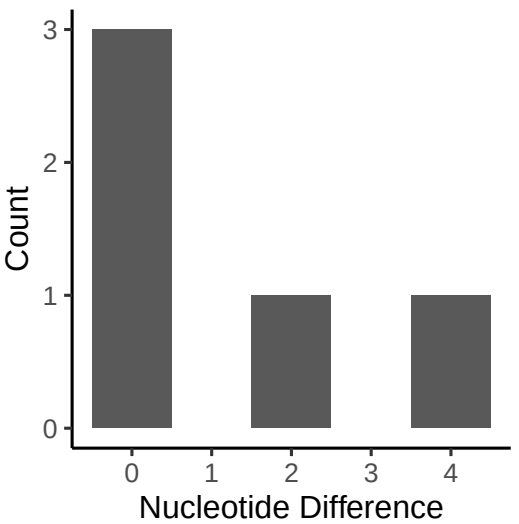
IGHV1−46*01

559 sequences assigned
410 (73.3%) exact matches, in which:
382 unique CDR3
6 unique J



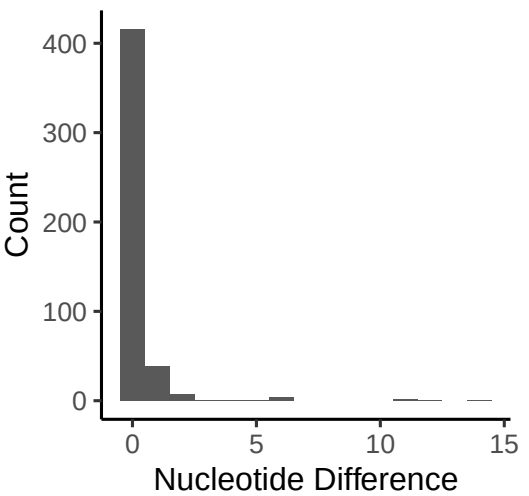
IGHV1−3*02

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
3 unique J



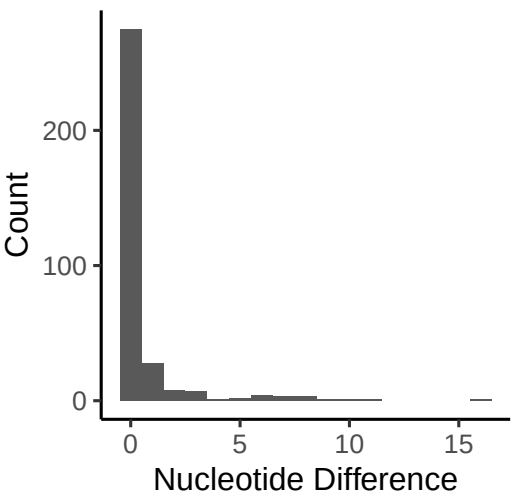
IGHV1−24*01

473 sequences assigned
416 (87.9%) exact matches, in which:
388 unique CDR3
6 unique J



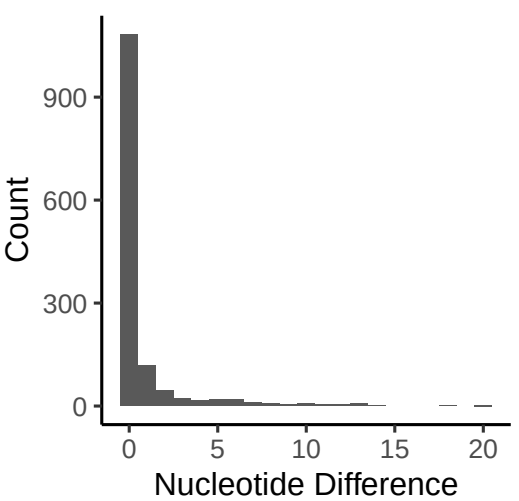
IGHV1−46*03

336 sequences assigned
275 (81.8%) exact matches, in which:
247 unique CDR3
6 unique J



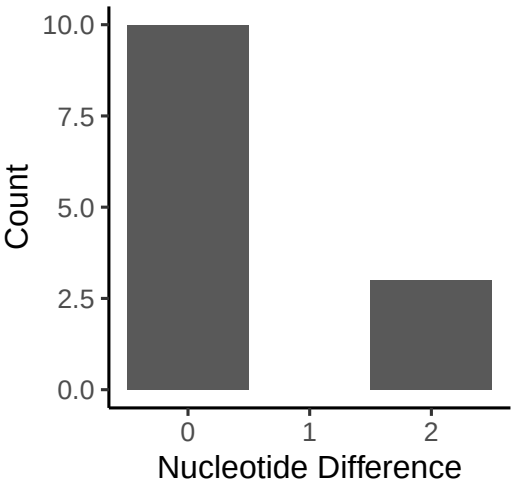
IGHV1−8*01

1370 sequences assigned
1083 (79.1%) exact matches, in which:
1009 unique CDR3
6 unique J



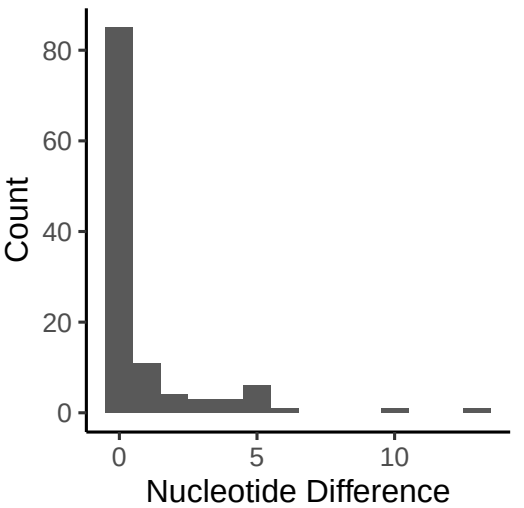
IGHV1−45*02

13 sequences assigned
10 (76.9%) exact matches, in which:
9 unique CDR3
3 unique J



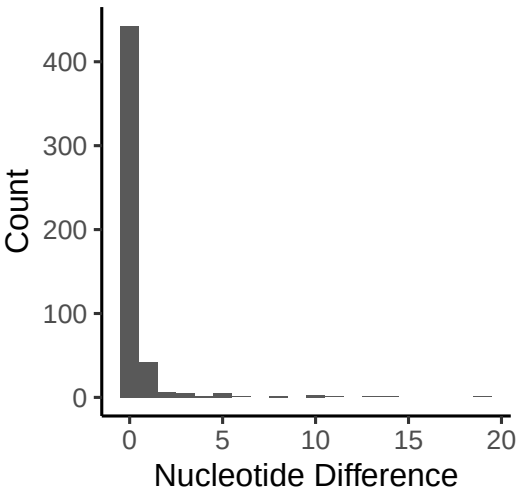
IGHV1−58*02

116 sequences assigned
85 (73.3%) exact matches, in which:
75 unique CDR3
5 unique J



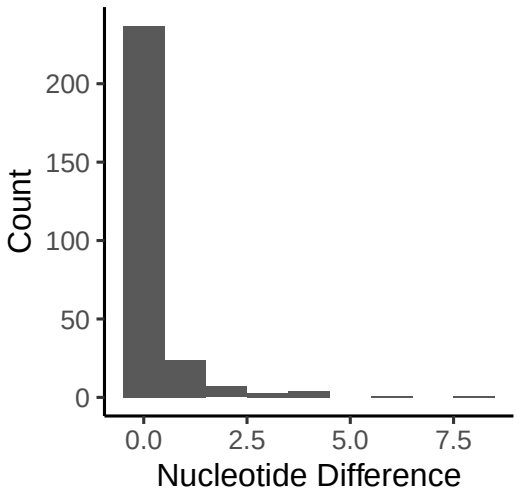
IGHV1−69*08_C191T

514 sequences assigned
443 (86.2%) exact matches, in which:
400 unique CDR3
6 unique J



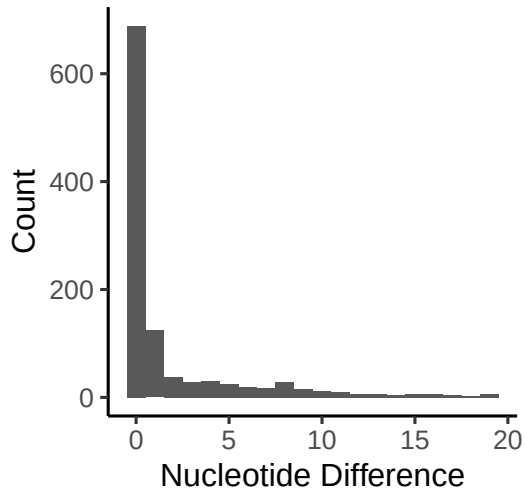
IGHV2−26*01

277 sequences assigned
237 (85.6%) exact matches, in which:
225 unique CDR3
5 unique J



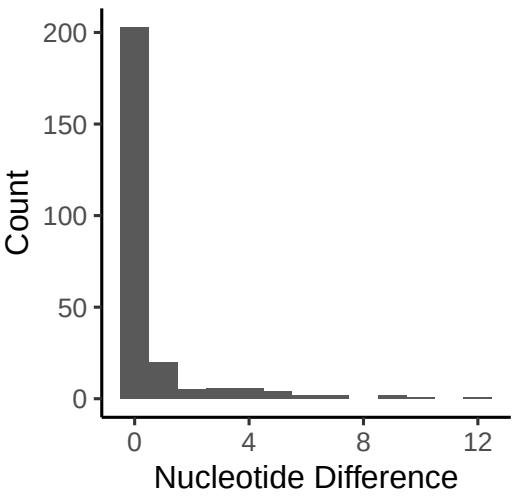
IGHV3−7*01

1088 sequences assigned
689 (63.3%) exact matches, in which:
614 unique CDR3
6 unique J



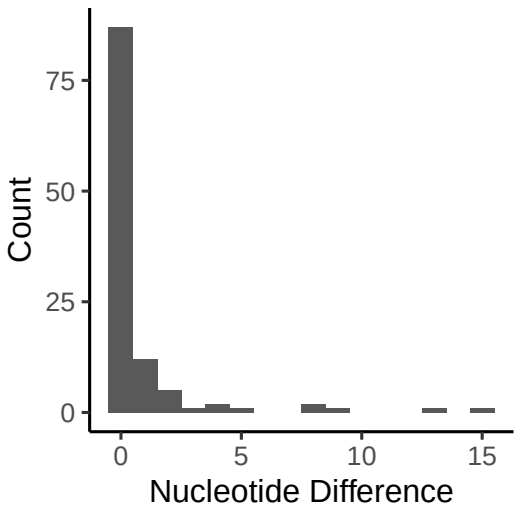
IGHV2−5*01

255 sequences assigned
203 (79.6%) exact matches, in which:
189 unique CDR3
6 unique J



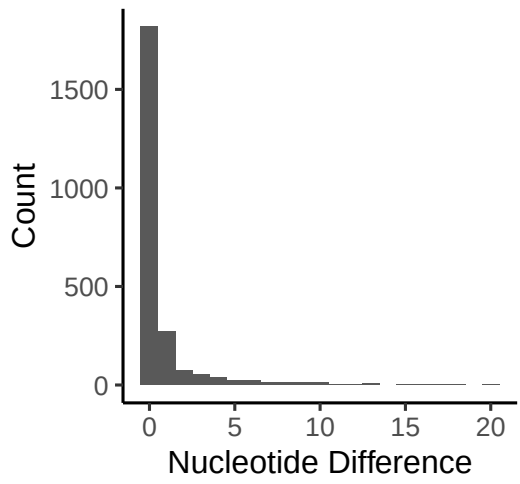
IGHV2−70*01

113 sequences assigned
87 (77%) exact matches, in which:
84 unique CDR3
5 unique J



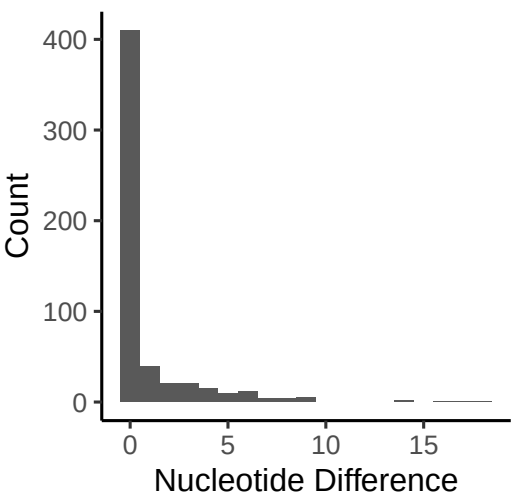
IGHV3−9*01

2378 sequences assigned
1818 (76.5%) exact matches, in which:
1556 unique CDR3
6 unique J



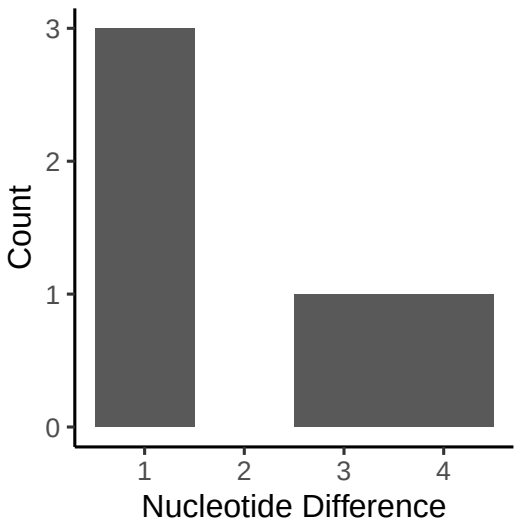
IGHV2−5*02

544 sequences assigned
410 (75.4%) exact matches, in which:
385 unique CDR3
6 unique J



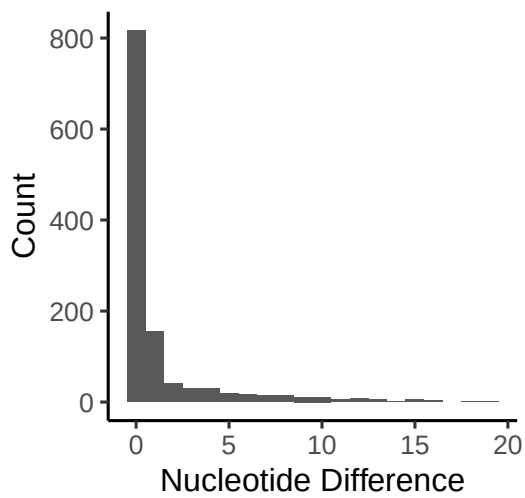
IGHV2−70D*04

5 sequences assigned
No exact matches.



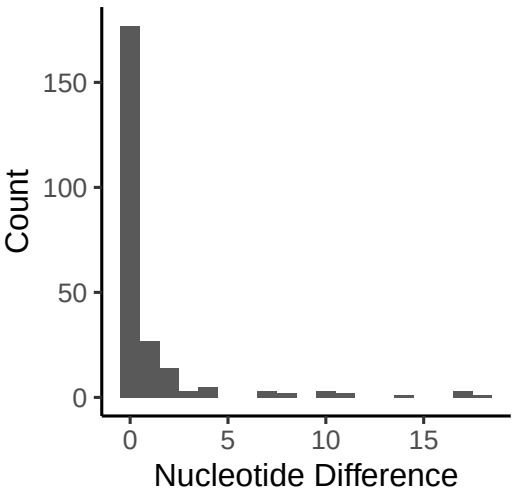
IGHV3−11*01

1191 sequences assigned
817 (68.6%) exact matches, in which:
724 unique CDR3
6 unique J



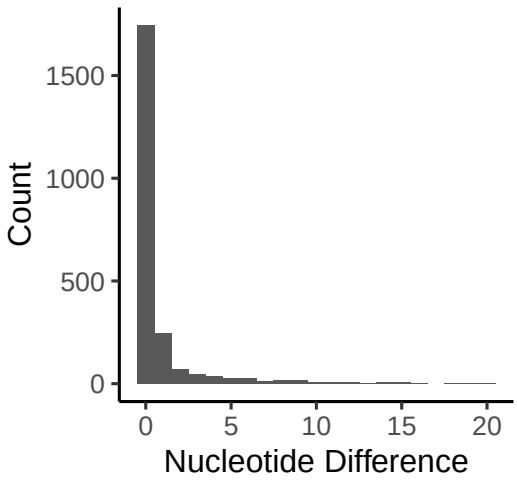
IGHV3−13*01

241 sequences assigned
177 (73.4%) exact matches, in which:
157 unique CDR3
5 unique J



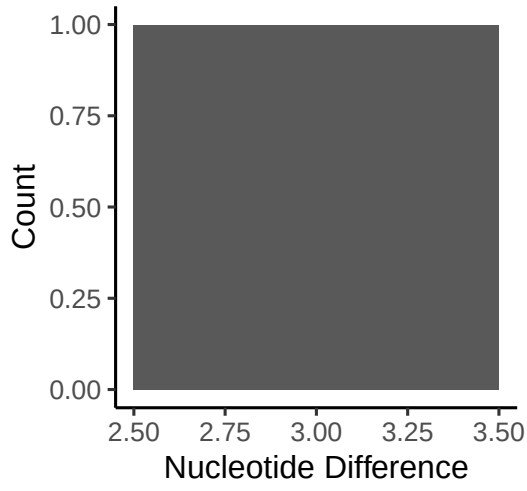
IGHV3−21*01

2301 sequences assigned
1744 (75.8%) exact matches, in which:
1513 unique CDR3
6 unique J



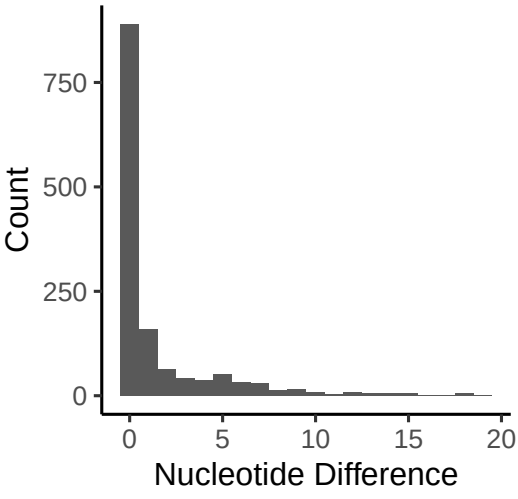
IGHV3−41*02

1 sequences assigned
No exact matches.



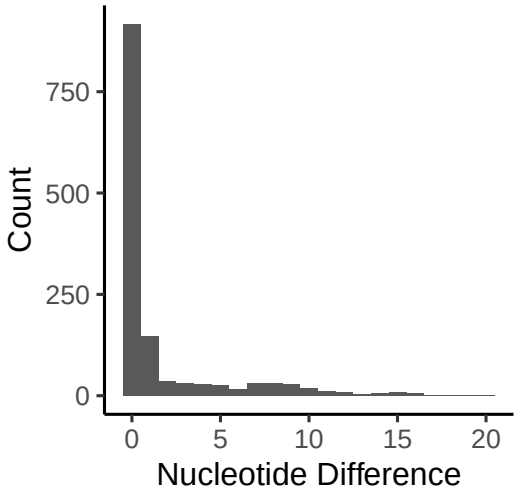
IGHV3−15*01

1386 sequences assigned
890 (64.2%) exact matches, in which:
799 unique CDR3
6 unique J



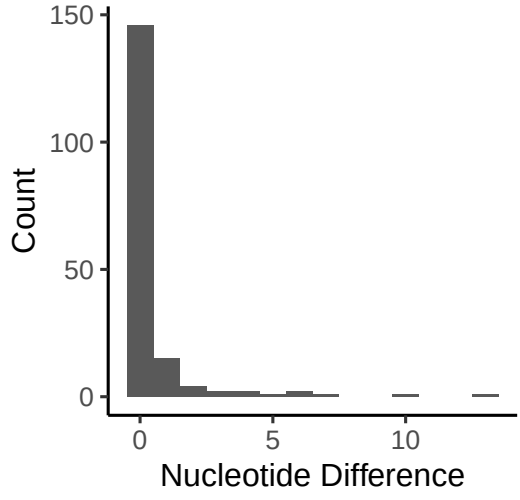
IGHV3−23*04

1363 sequences assigned
917 (67.3%) exact matches, in which:
815 unique CDR3
6 unique J



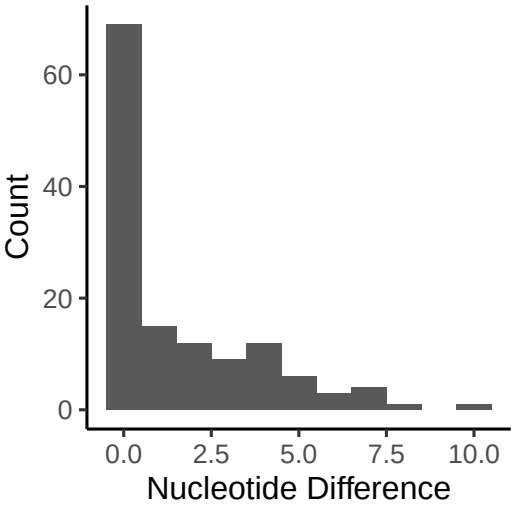
IGHV3−43*01

175 sequences assigned
146 (83.4%) exact matches, in which:
116 unique CDR3
6 unique J



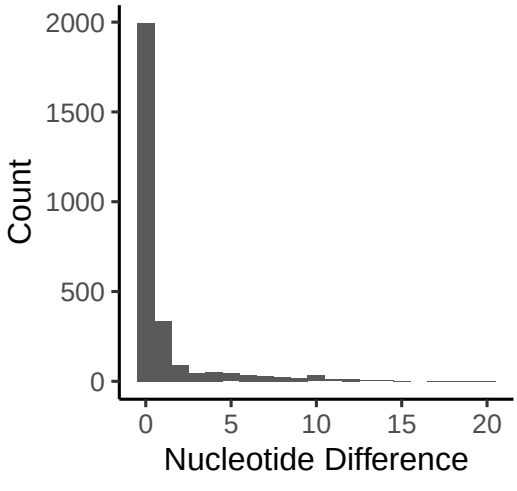
IGHV3−20*01

132 sequences assigned
69 (52.3%) exact matches, in which:
63 unique CDR3
5 unique J



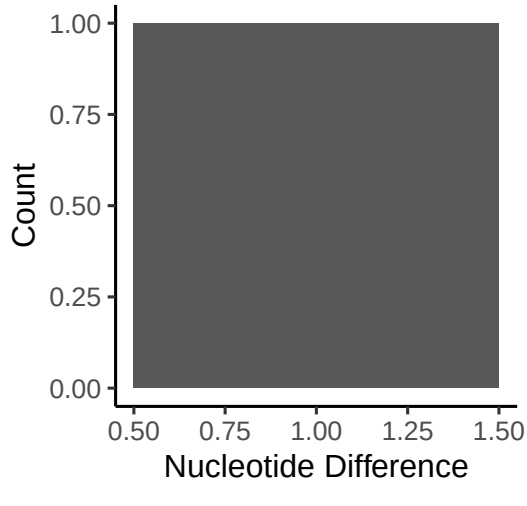
IGHV3−33*01

2755 sequences assigned
1995 (72.4%) exact matches, in which:
1742 unique CDR3
6 unique J



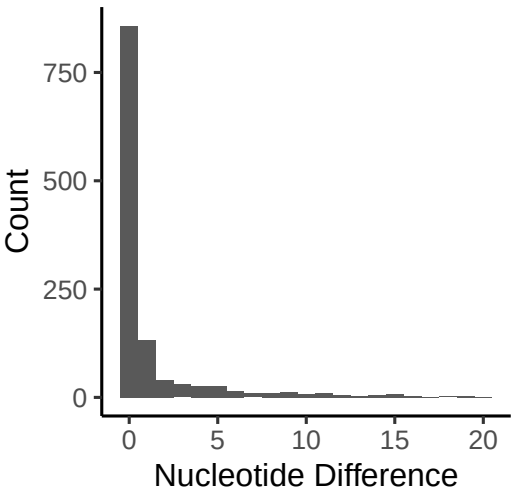
IGHV3−47*02

1 sequences assigned
No exact matches.



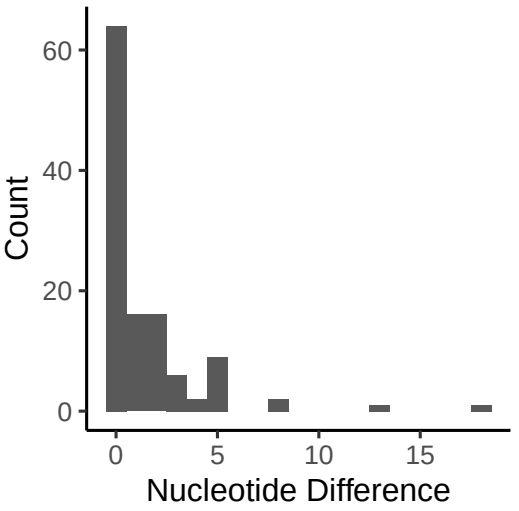
IGHV3−48*01

1211 sequences assigned
858 (70.9%) exact matches, in which:
748 unique CDR3
6 unique J



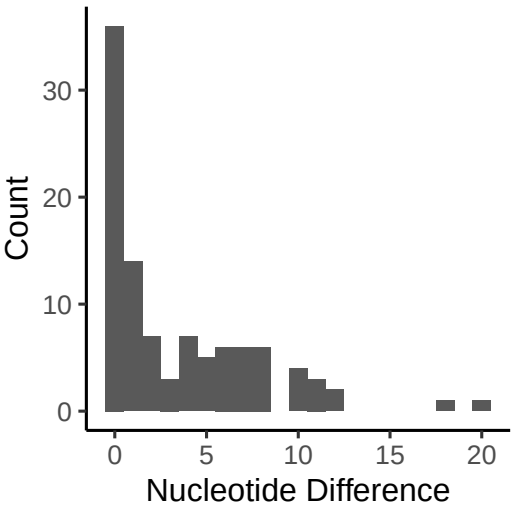
IGHV3−64*01

117 sequences assigned
64 (54.7%) exact matches, in which:
61 unique CDR3
5 unique J



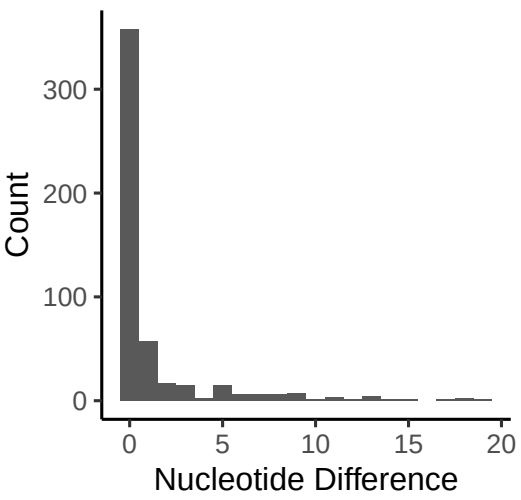
IGHV3−72*01

104 sequences assigned
36 (34.6%) exact matches, in which:
32 unique CDR3
4 unique J



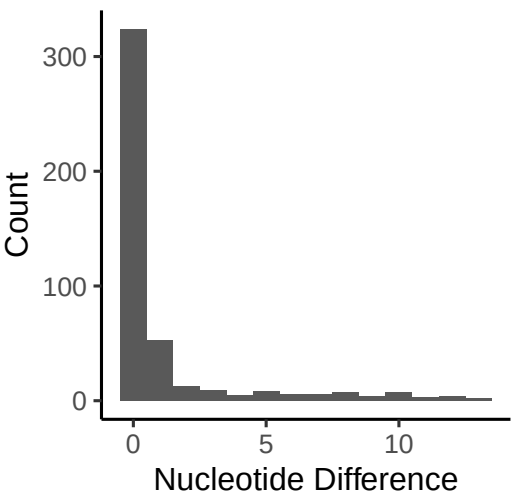
IGHV3−49*03

505 sequences assigned
358 (70.9%) exact matches, in which:
305 unique CDR3
5 unique J



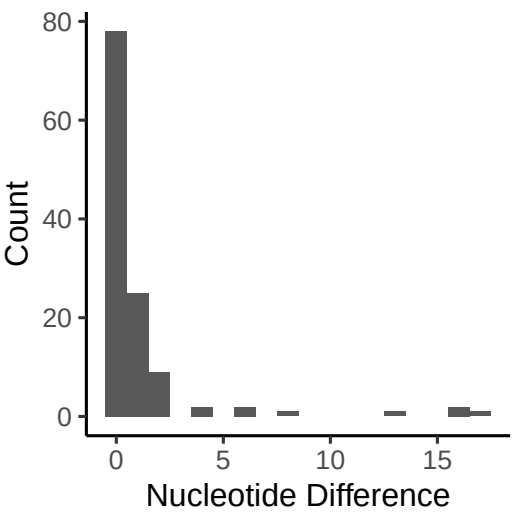
IGHV3−66*02

452 sequences assigned
324 (71.7%) exact matches, in which:
279 unique CDR3
6 unique J



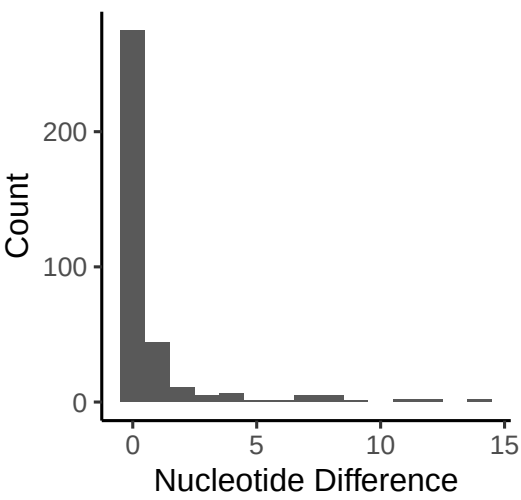
IGHV3−73*01

121 sequences assigned
78 (64.5%) exact matches, in which:
72 unique CDR3
4 unique J



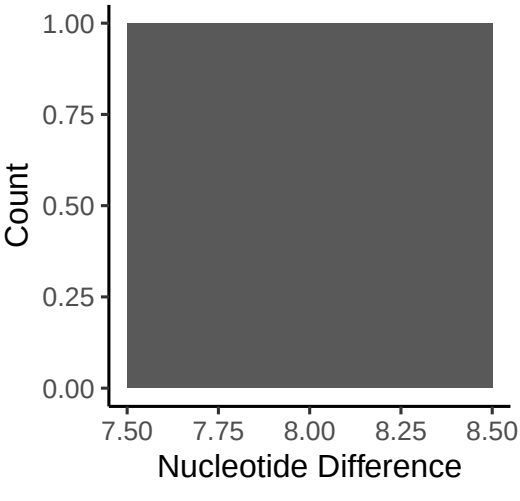
IGHV3−53*02

364 sequences assigned
275 (75.5%) exact matches, in which:
253 unique CDR3
5 unique J



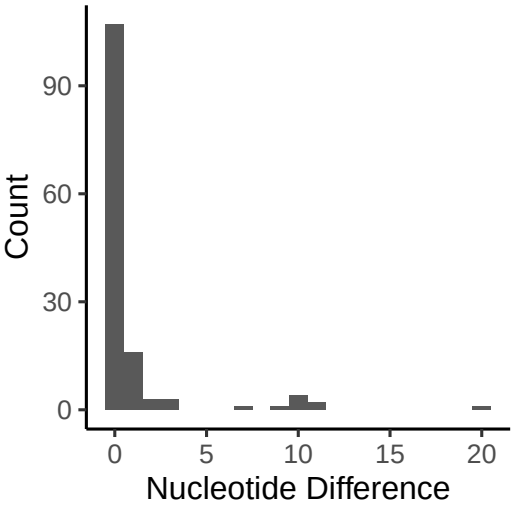
IGHV3−71*03

1 sequences assigned
No exact matches.



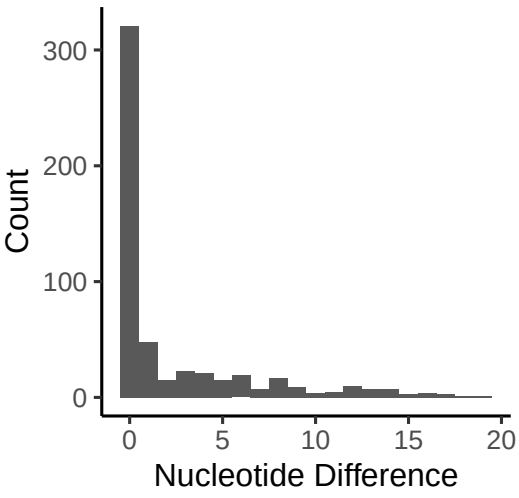
IGHV3−73*02

139 sequences assigned
107 (77%) exact matches, in which:
91 unique CDR3
6 unique J



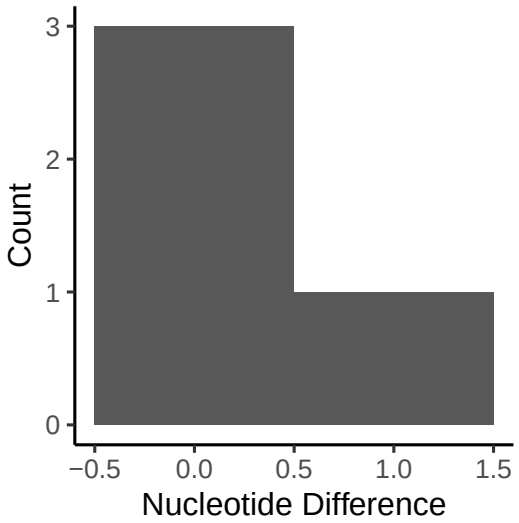
IGHV3−74*01

542 sequences assigned
321 (59.2%) exact matches, in which:
298 unique CDR3
6 unique J



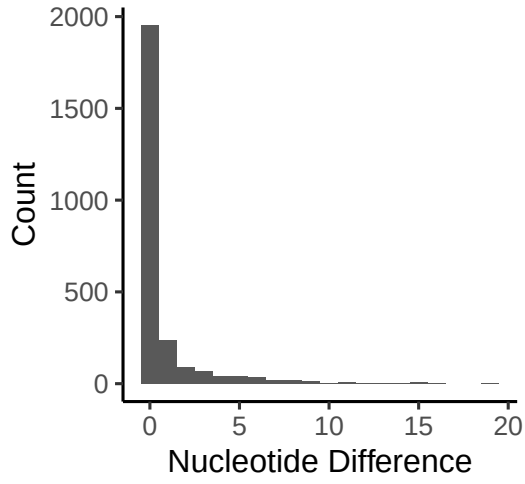
IGHV4−28*07

4 sequences assigned
3 (75%) exact matches, in which:
2 unique CDR3
2 unique J



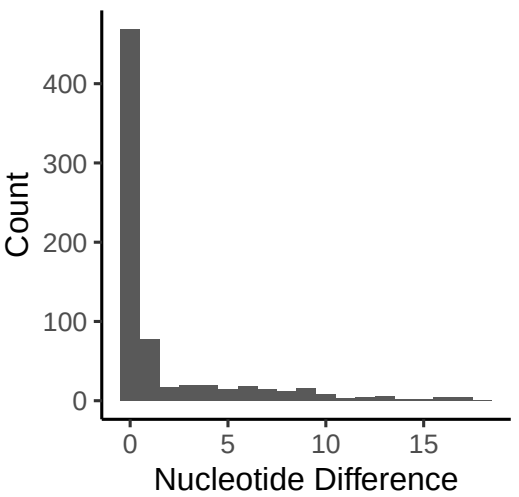
IGHV4−34*01

2546 sequences assigned
1952 (76.7%) exact matches, in which:
1717 unique CDR3
6 unique J



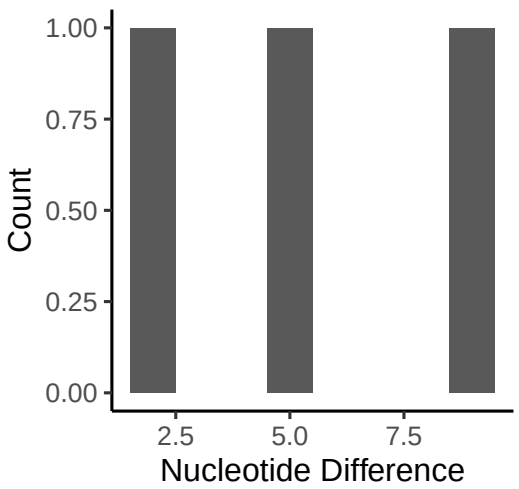
IGHV4−4*07

717 sequences assigned
469 (65.4%) exact matches, in which:
430 unique CDR3
6 unique J



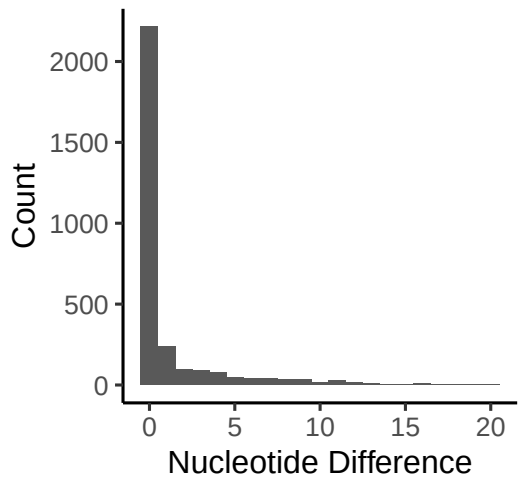
IGHV4−30−2*03

4 sequences assigned
No exact matches.



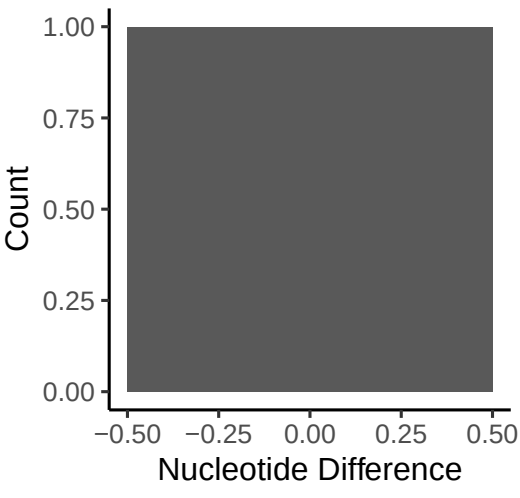
IGHV4−39*01

3014 sequences assigned
2215 (73.5%) exact matches, in which:
1988 unique CDR3
6 unique J



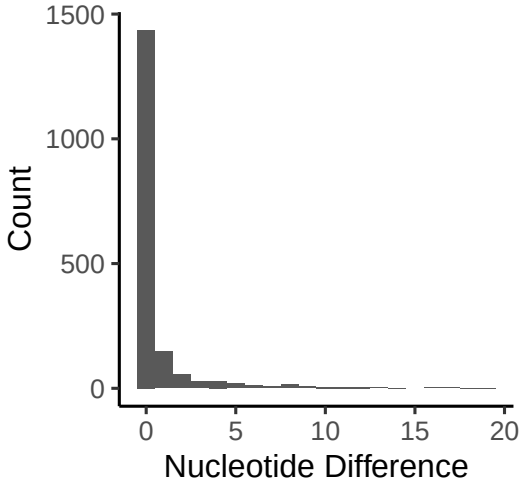
IGHV4−28*05

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



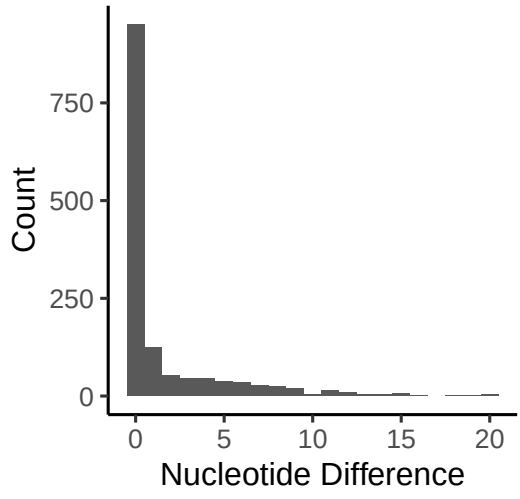
IGHV4−31*03

1789 sequences assigned
1436 (80.3%) exact matches, in which:
1312 unique CDR3
6 unique J



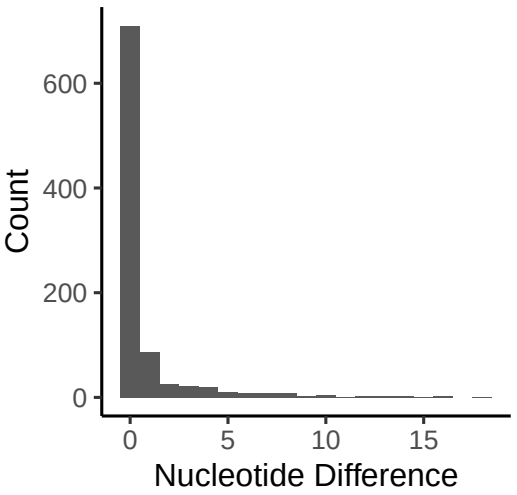
IGHV4−59*01

1414 sequences assigned
951 (67.3%) exact matches, in which:
894 unique CDR3
6 unique J



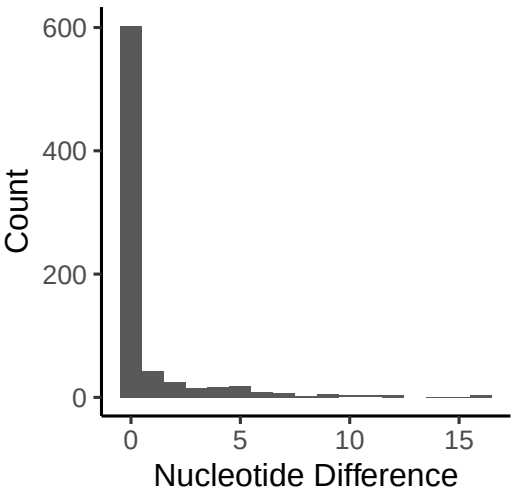
IGHV4−61*02

922 sequences assigned
710 (77%) exact matches, in which:
662 unique CDR3
6 unique J



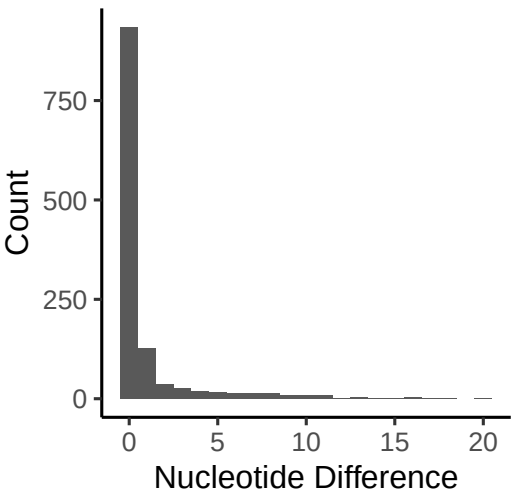
IGHV5−51*03

762 sequences assigned
603 (79.1%) exact matches, in which:
563 unique CDR3
6 unique J



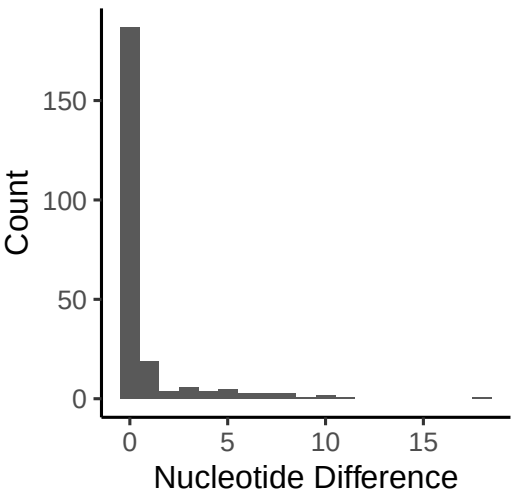
IGHV4−61*02_A234G

1250 sequences assigned
935 (74.8%) exact matches, in which:
869 unique CDR3
6 unique J



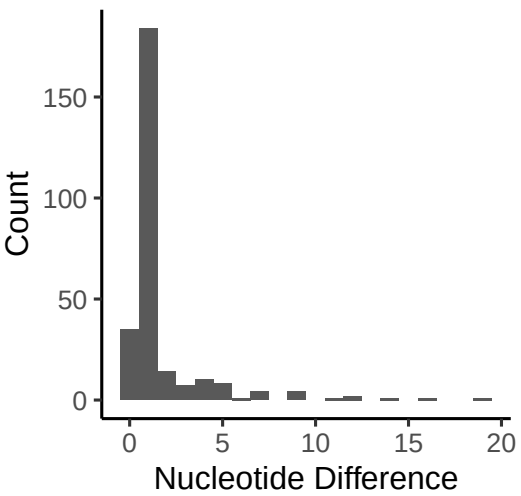
IGHV6−1*01

239 sequences assigned
187 (78.2%) exact matches, in which:
162 unique CDR3
6 unique J



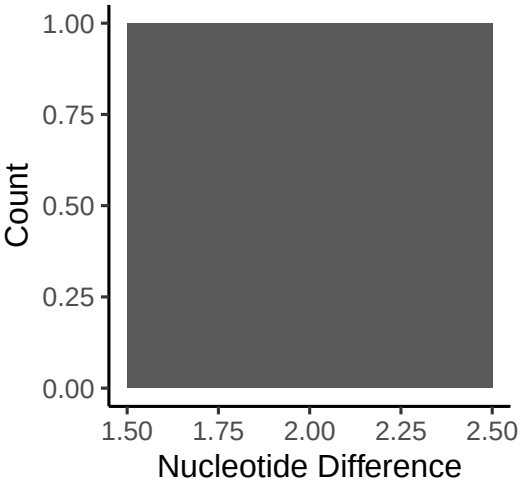
IGHV5−51*01

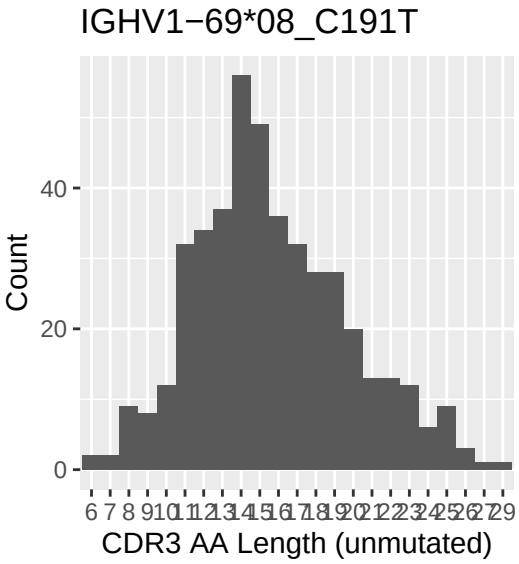
273 sequences assigned
35 (12.8%) exact matches, in which:
35 unique CDR3
5 unique J

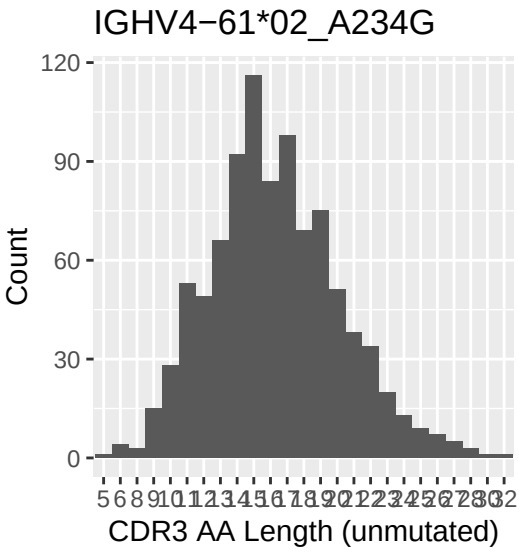


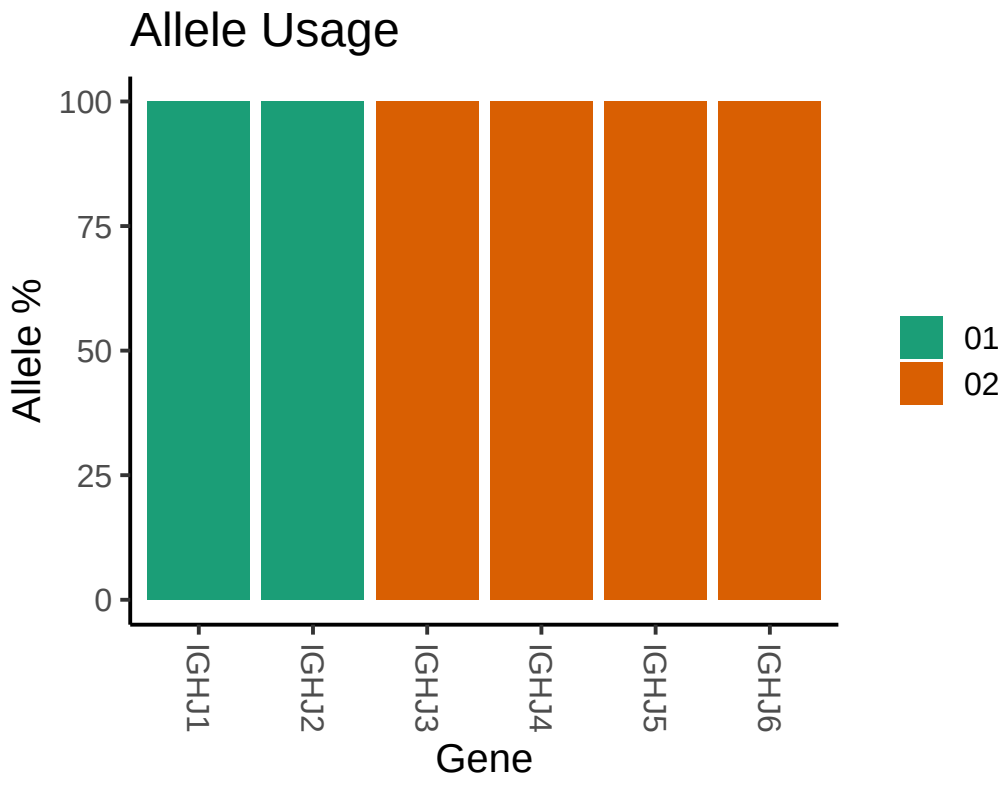
IGHV3/OR16−12*01

1 sequences assigned
No exact matches.




IGHV1−69*08_C191T
Count
40
20
0
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29
CDR3 AA Length (unmutated)


IGHV4−61*02_A234G
Count
120
90
60
30
0
5 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 30 32
CDR3 AA Length (unmutated)


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

Warning − no inferred sequences found.

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