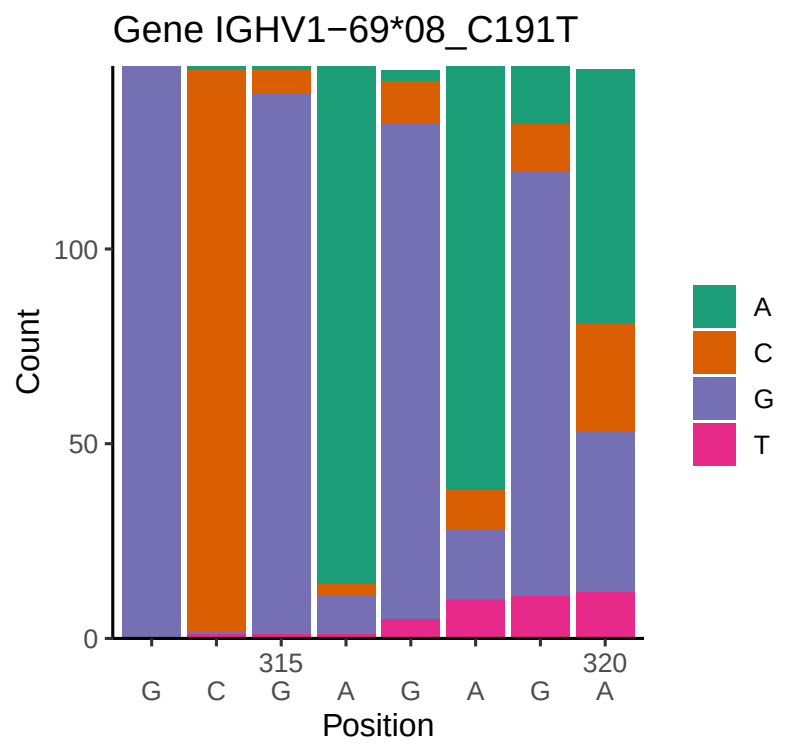
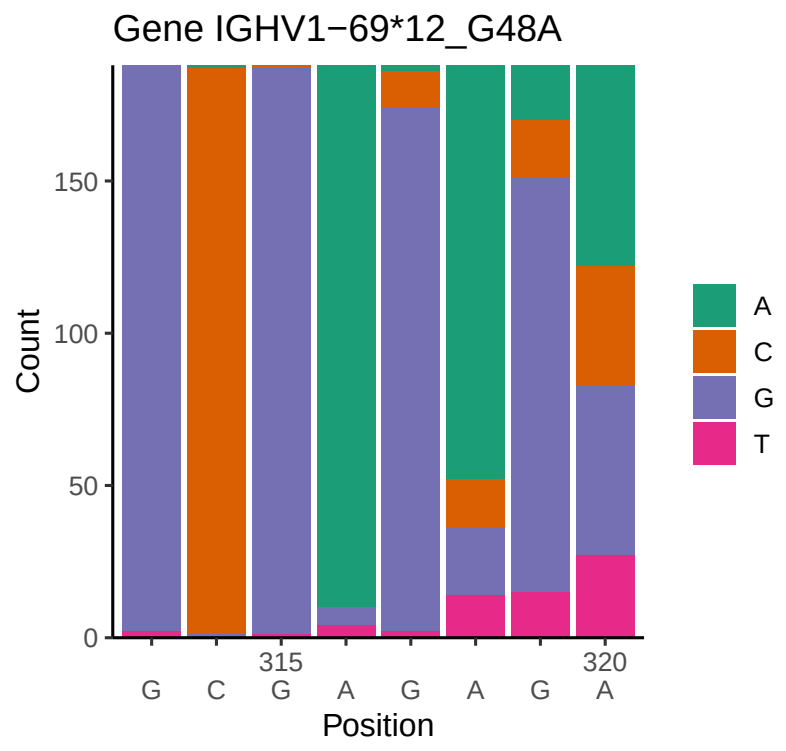
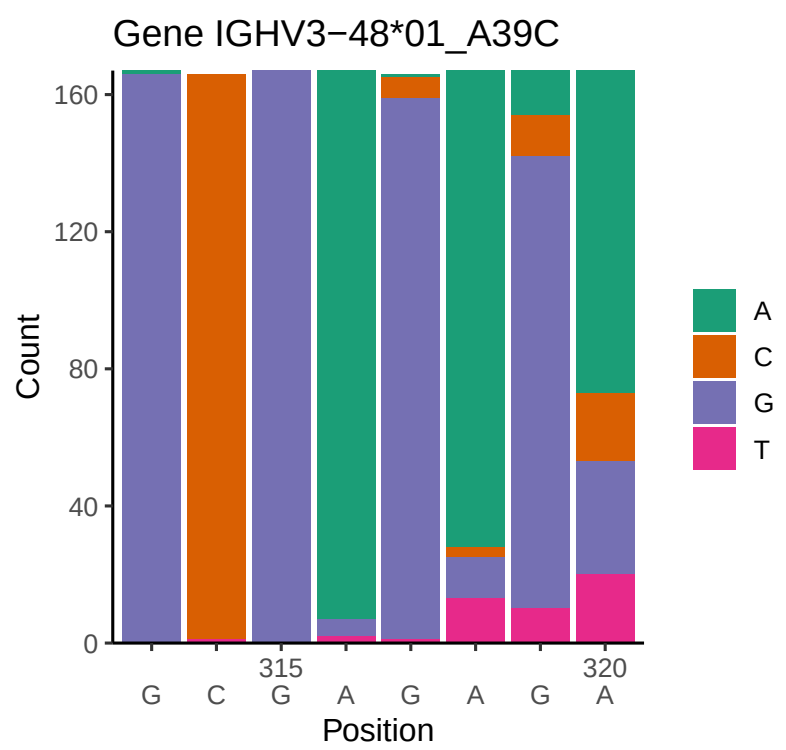
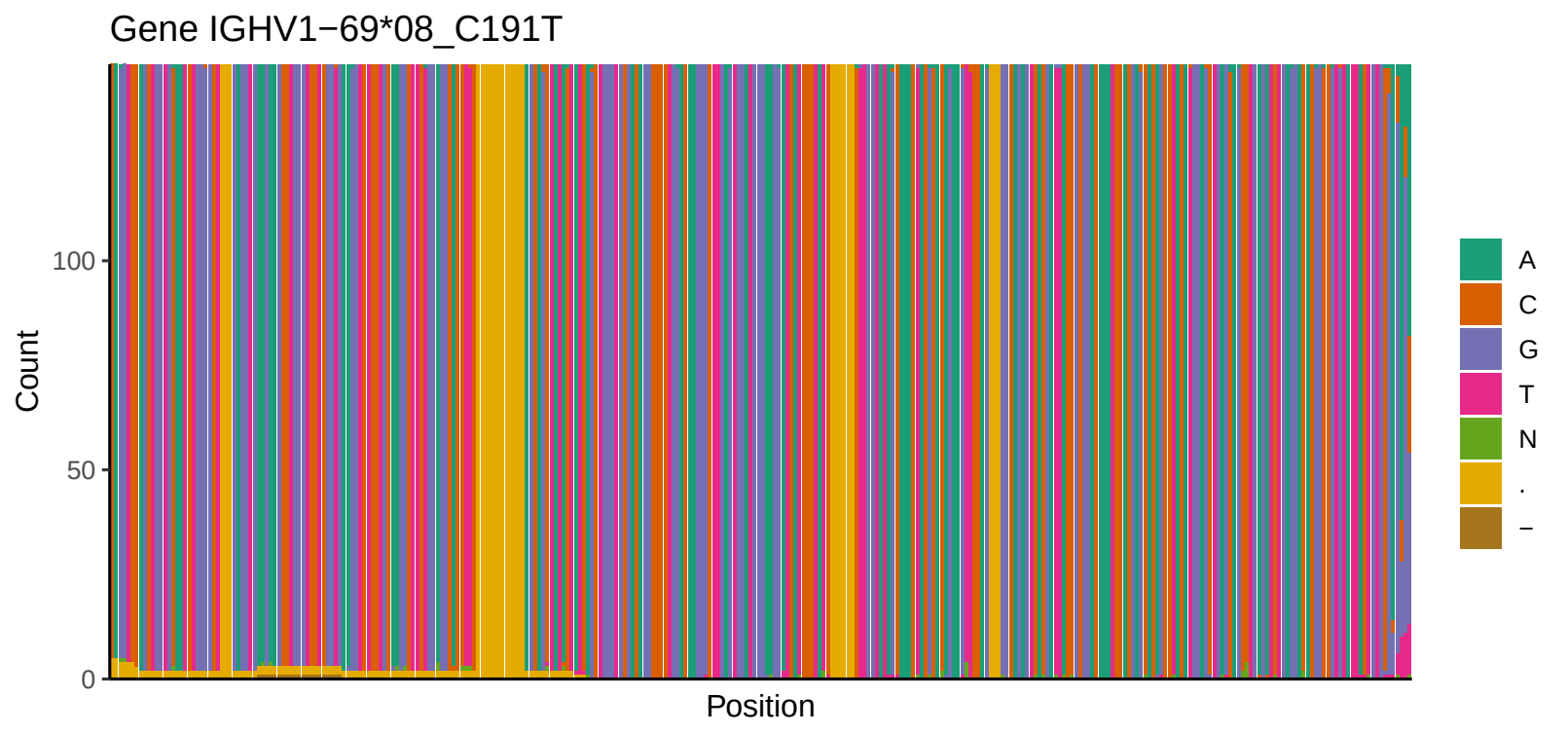
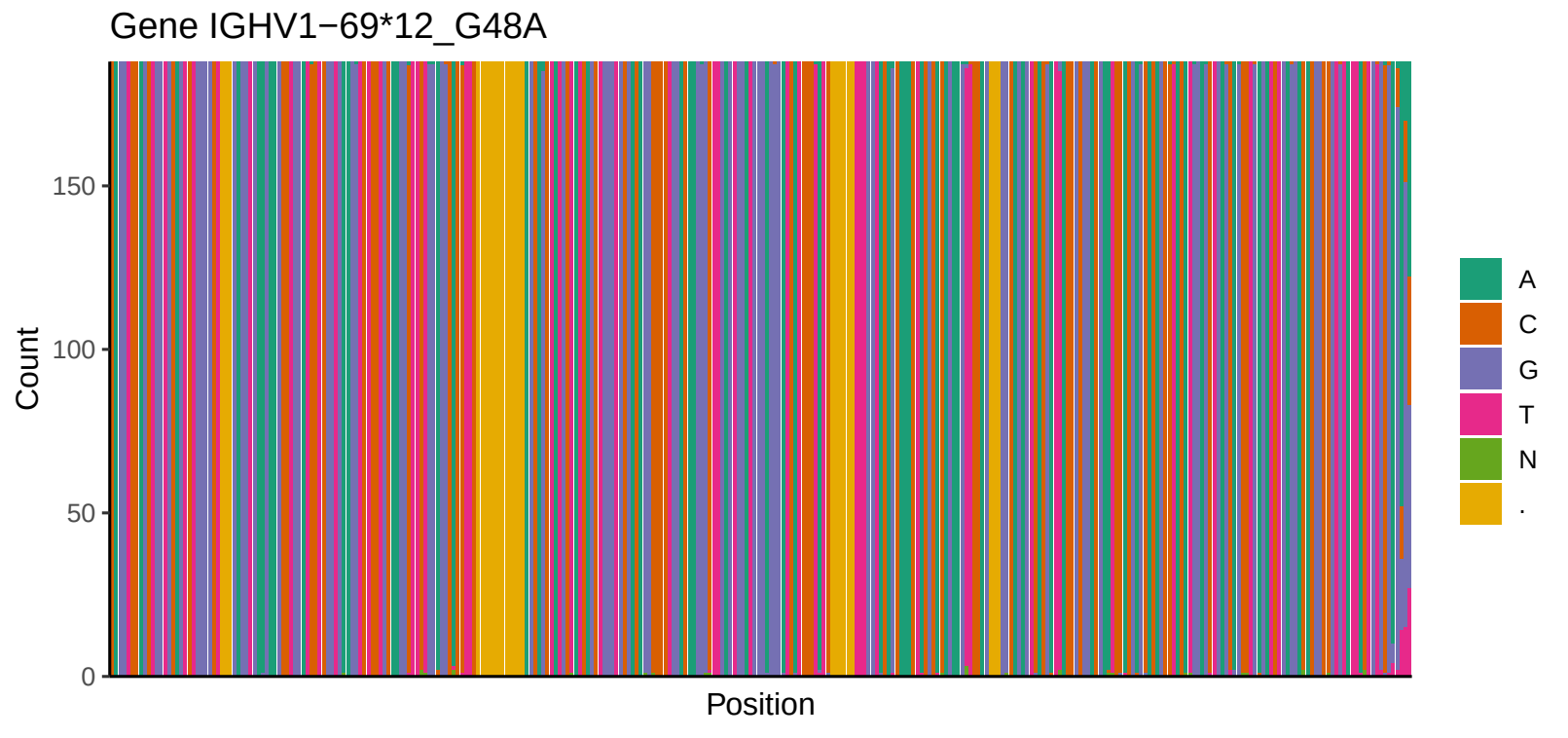
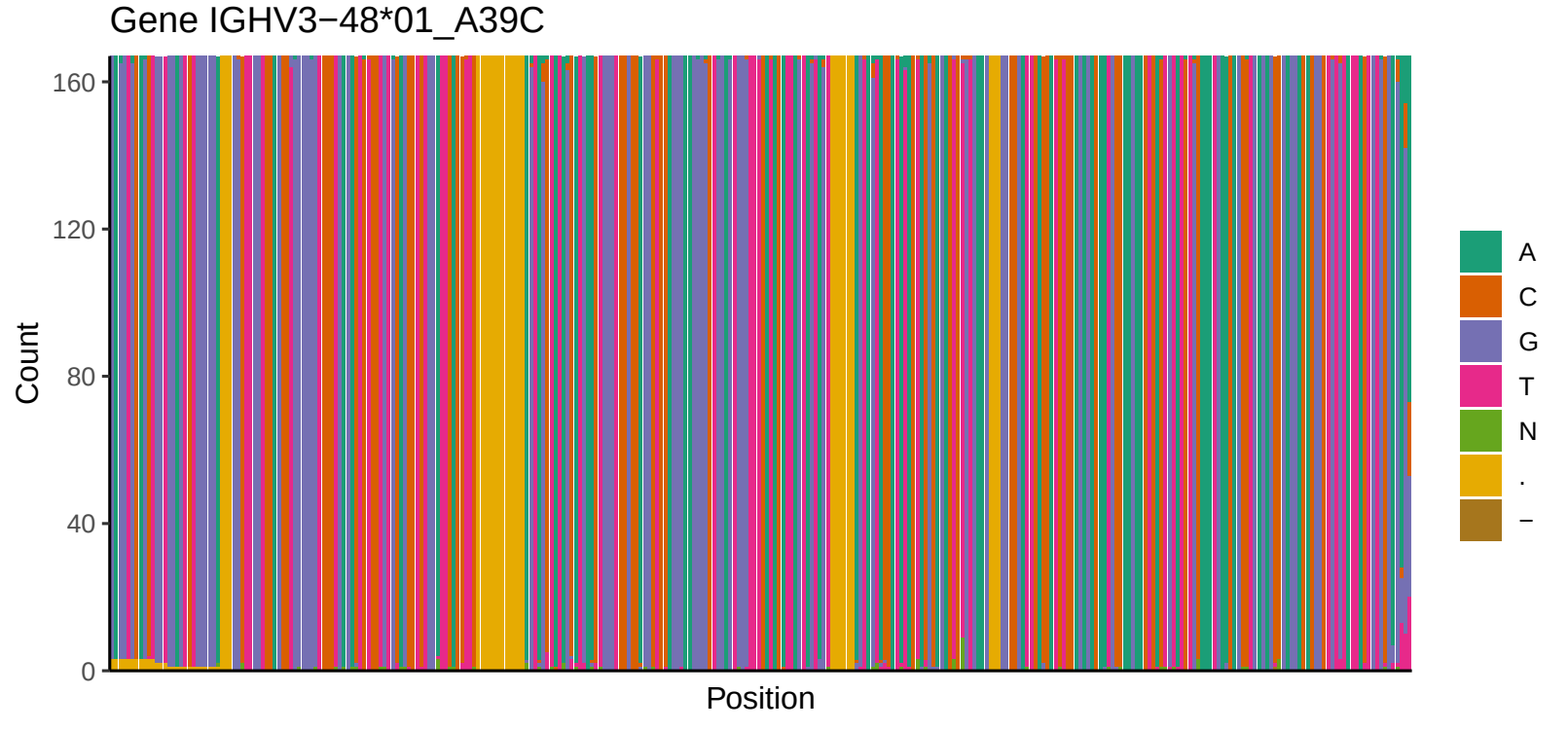

Gene IGHV1−69*08_C191T
Count
100
50
0
315
320
G C G A G A G A
Position
A
C
G
T

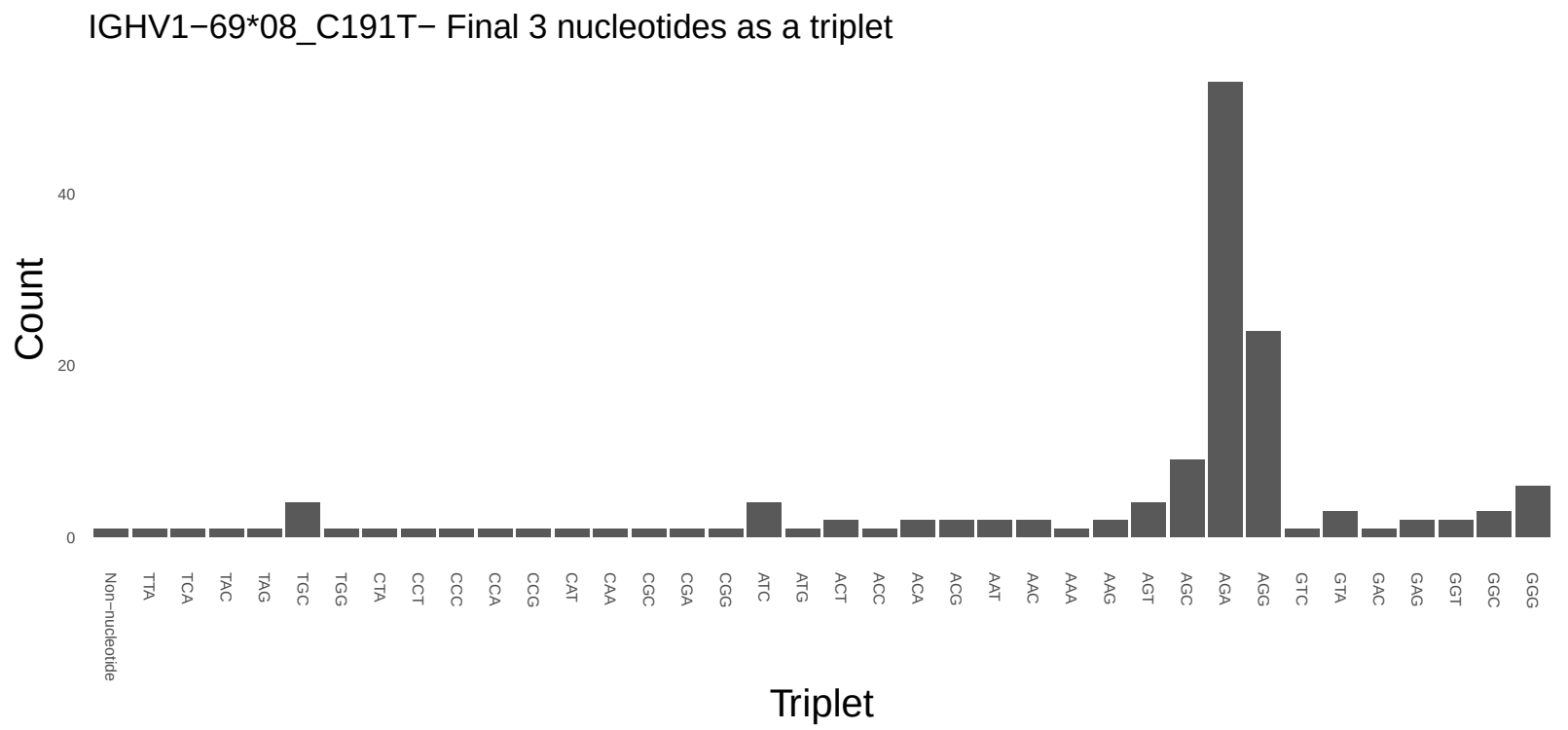

Gene IGHV1−69*12_G48A
Count
150
100
50
0
315
320
G C G A G A G A
Position
A
C
G
T

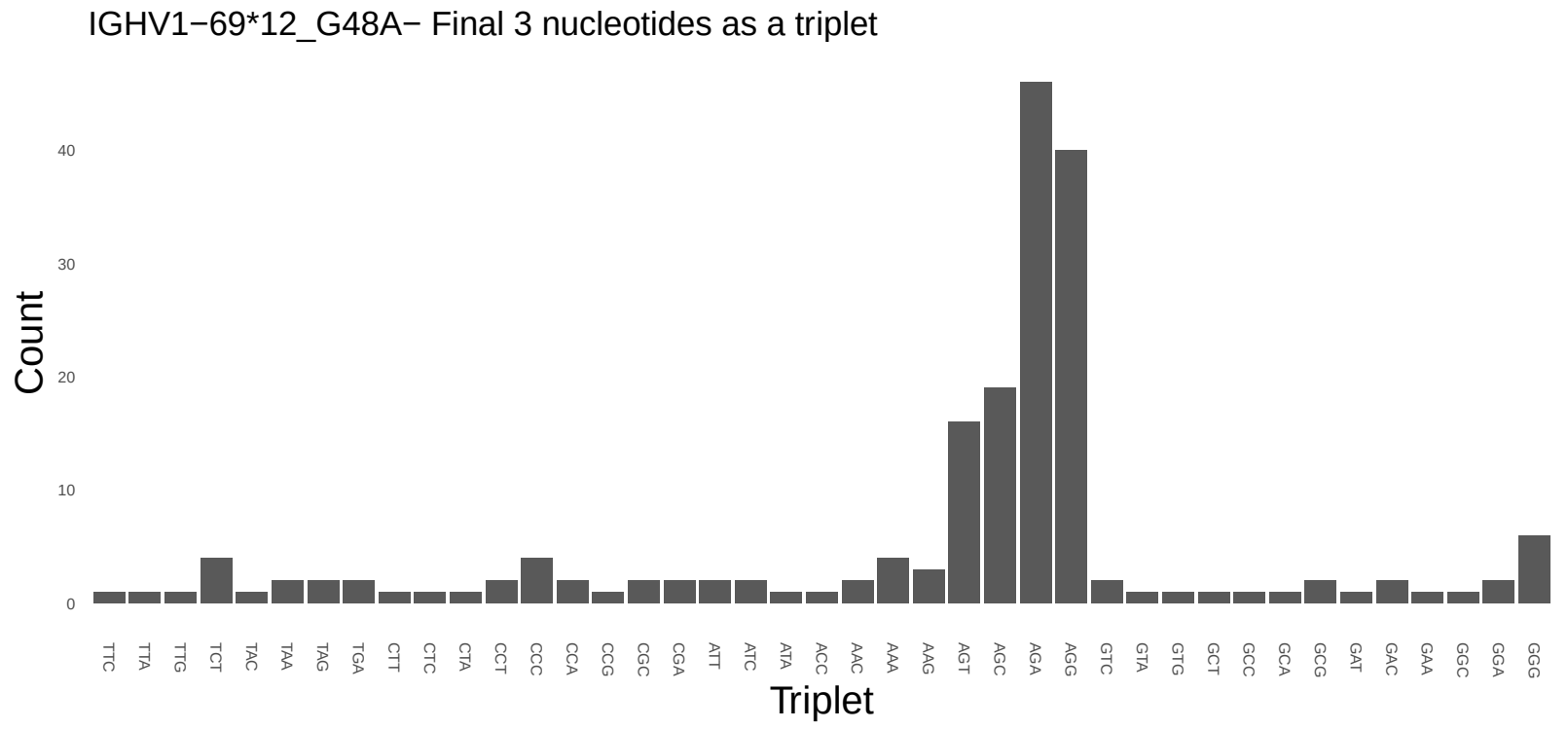

Gene IGHV3−48*01_A39C
Count
160
120
80
40
0
315
320
G C G A G A G A
Position
A
C
G
T

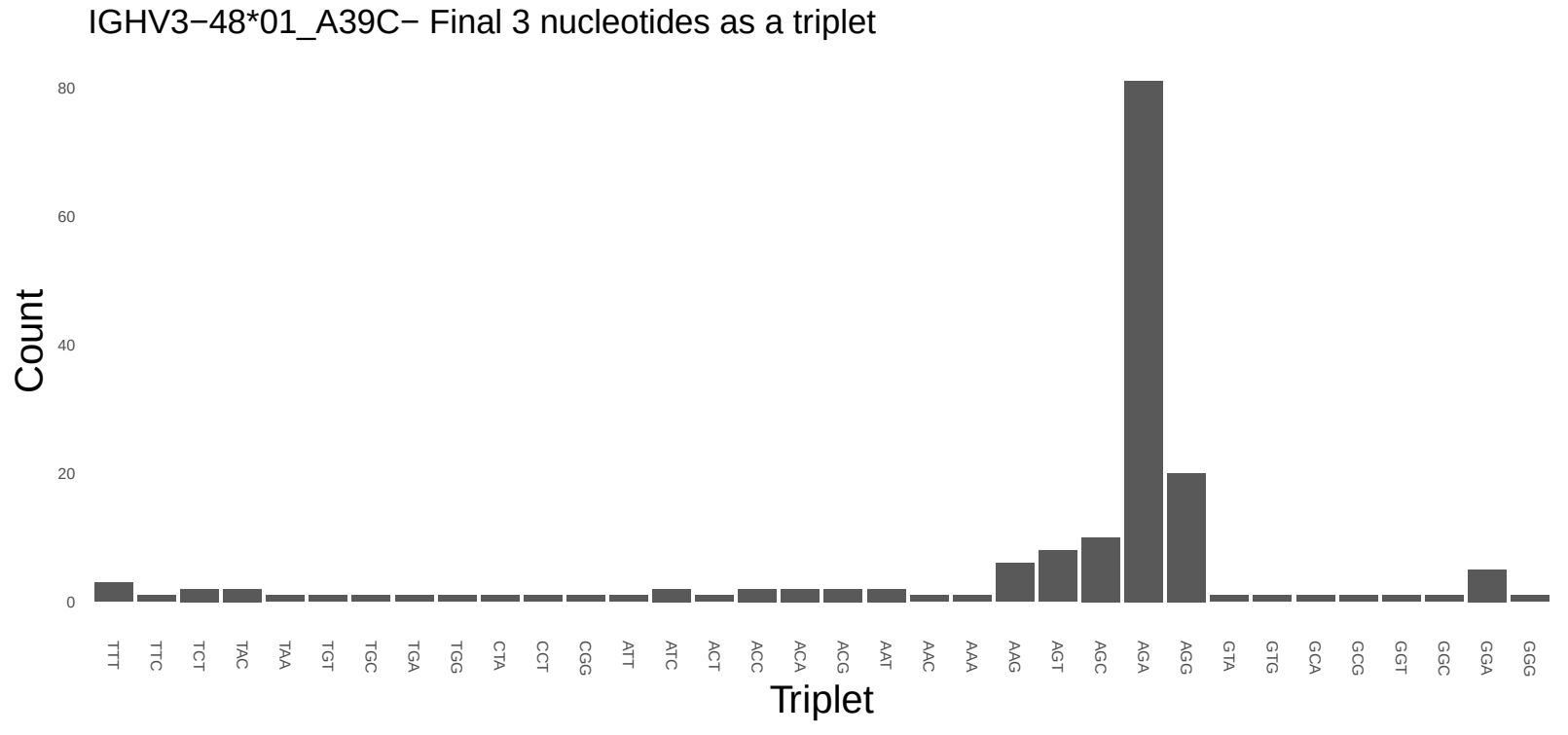

Gene IGHV1−69*08_C191T
Count
100
50
0
Position
A
C
G
T
N
.
–


Gene IGHV1−69*12_G48A
Count
150
100
50
0
Position
A
C
G
T
N
.


Gene IGHV3−48*01_A39C
Count
160
120
80
40
0
Position
A
C
G
T
N
.
–

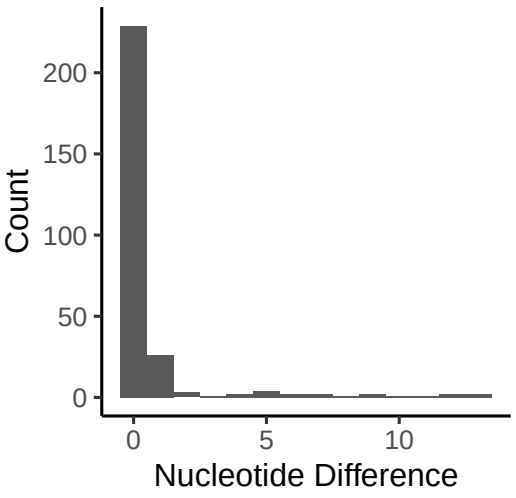

IGHV1−69*08_C191T− Final 3 nucleotides as a triplet
Count
0
20
40
Non−nucleotide
TTA
TCA
TAC
TAG
TGC
TGG
CTA
CCT
CCC
CCA
CCG
CAT
CAA
CGC
CGA
CGG
ATC
ATG
ACT
ACC
ACA
ACG
AAT
AAC
AAA
AAG
AGT
AGC
AGA
AGG
GTC
GTA
GAC
GAG
GGT
GGC
GGG
Triplet


IGHV1−69*12_G48A− Final 3 nucleotides as a triplet
Count
0
10
20
30
40
TTC
TTA
TTG
TCT
TAC
TAA
TAG
TGA
CTT
CTC
CTA
CCT
CCC
CCA
CCG
CGC
CGA
ATT
ATC
ATA
ACC
AAC
AAA
AAG
AGT
AGC
AGA
AGG
GTC
GTA
GTG
GCT
GCC
GCA
GCG
GAT
GAC
GAA
GGC
GGA
GGG
Triplet


IGHV3−48*01_A39C− Final 3 nucleotides as a triplet
Count
0
20
40
60
80
TTT
TTC
TCT
TAC
TAA
TGT
TGC
TGA
TGG
CTA
CCT
CGG
ATT
ATC
ACT
ACC
ACA
ACG
AAT
AAC
AAA
AAG
AGT
AGC
AGA
AGG
GTA
GTG
GCA
GCG
GGT
GGC
GGA
GGG
Triplet

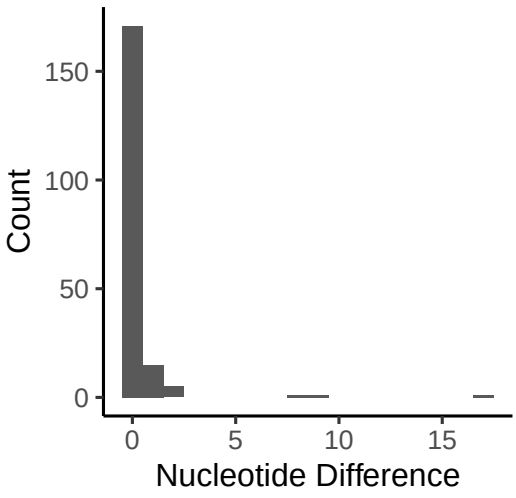
IGHV1−2*02

278 sequences assigned
229 (82.4%) exact matches, in which:
229 unique CDR3
6 unique J



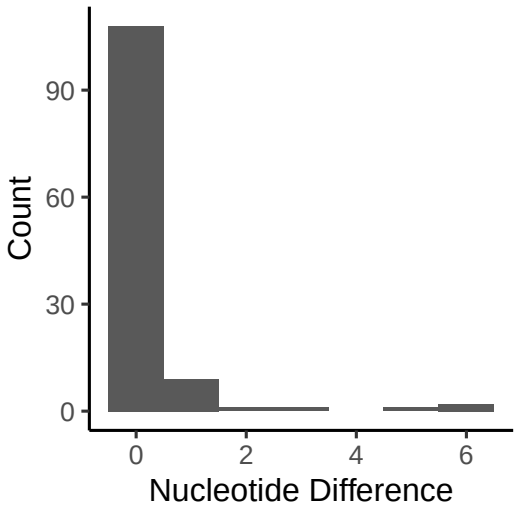
IGHV1−8*03

195 sequences assigned
171 (87.7%) exact matches, in which:
170 unique CDR3
5 unique J



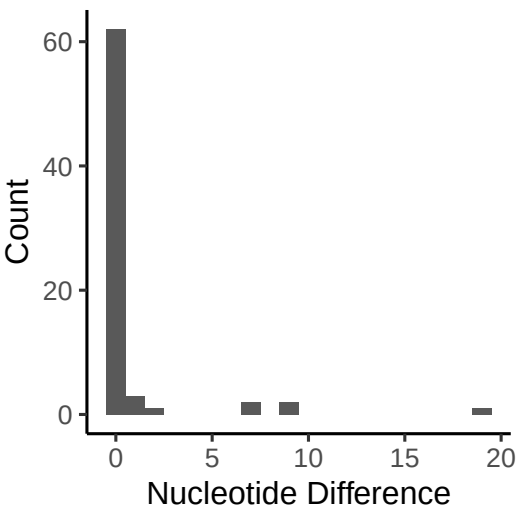
IGHV1−46*03

122 sequences assigned
108 (88.5%) exact matches, in which:
108 unique CDR3
5 unique J



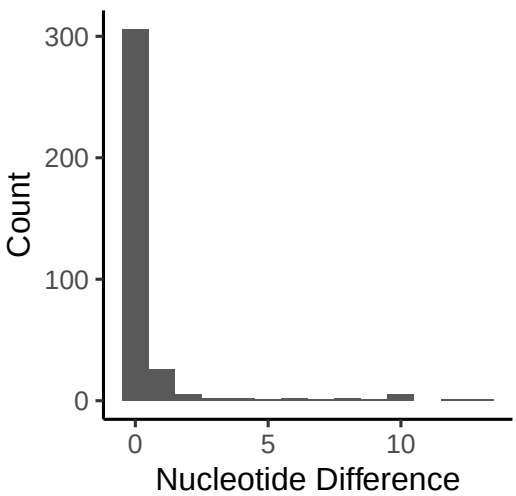
IGHV1−2*04

71 sequences assigned
62 (87.3%) exact matches, in which:
62 unique CDR3
5 unique J



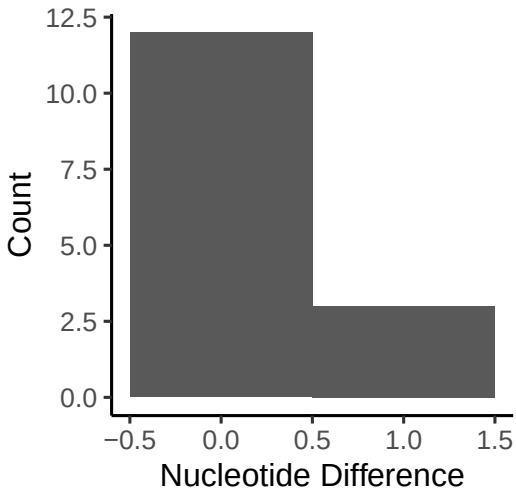
IGHV1−18*01

355 sequences assigned
306 (86.2%) exact matches, in which:
305 unique CDR3
6 unique J



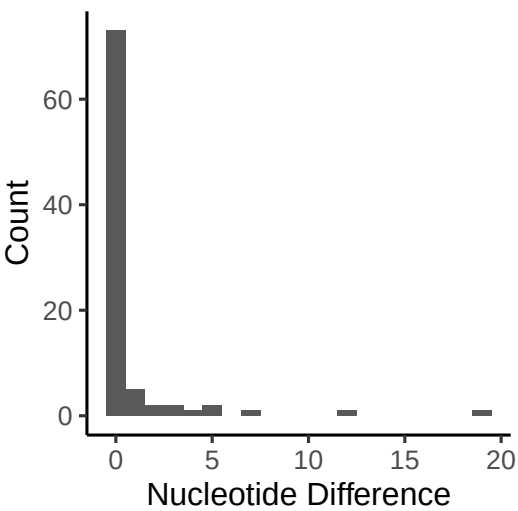
IGHV1−58*02

15 sequences assigned
12 (80%) exact matches, in which:
11 unique CDR3
4 unique J



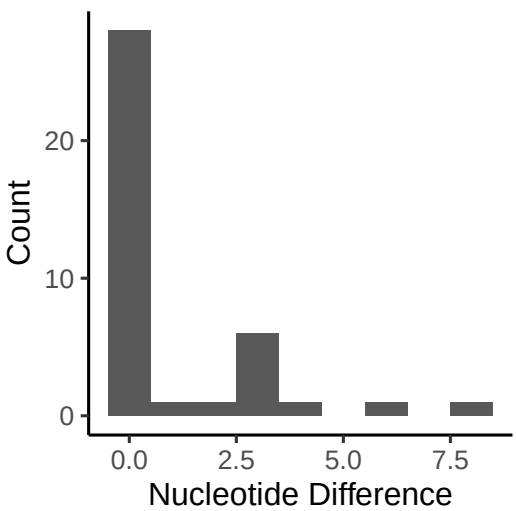
IGHV1−3*01

88 sequences assigned
73 (83%) exact matches, in which:
73 unique CDR3
5 unique J



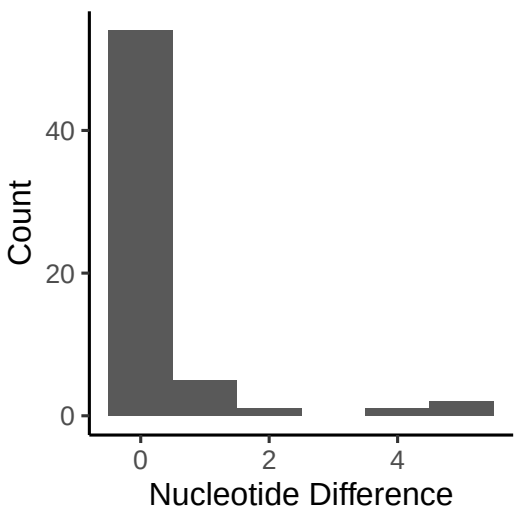
IGHV1−24*01

39 sequences assigned
28 (71.8%) exact matches, in which:
28 unique CDR3
5 unique J



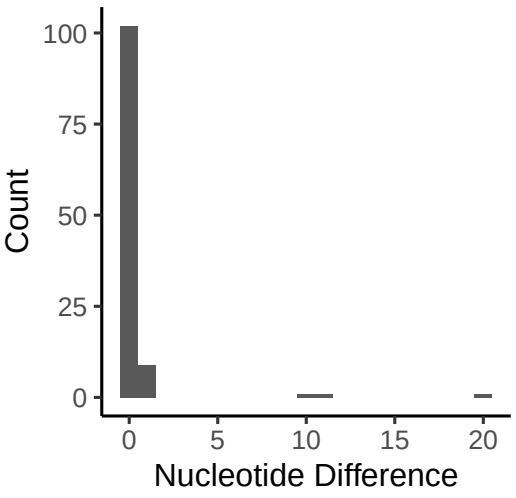
IGHV1−69−2*01

63 sequences assigned
54 (85.7%) exact matches, in which:
54 unique CDR3
4 unique J



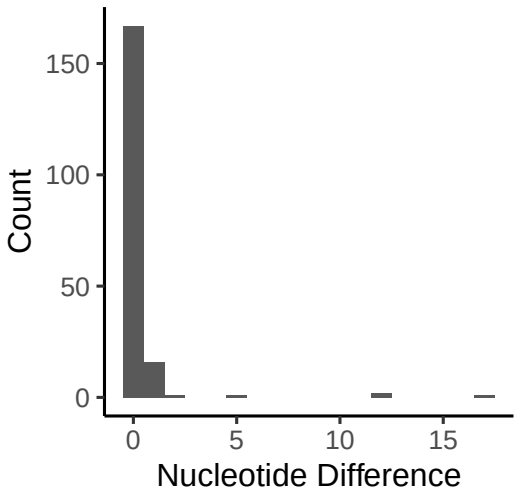
IGHV1−69*10

114 sequences assigned
102 (89.5%) exact matches, in which:
102 unique CDR3
6 unique J



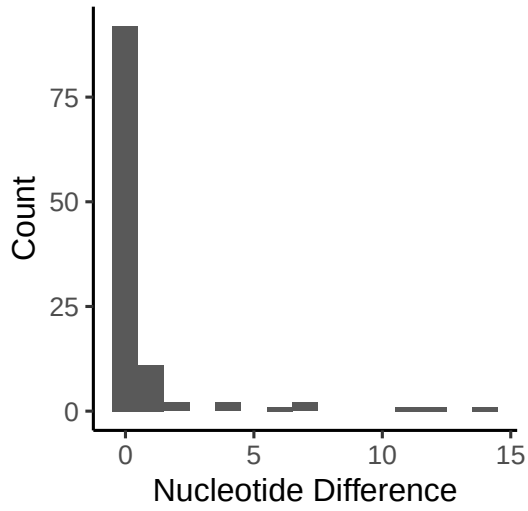
IGHV1−69*12_G48A

188 sequences assigned
167 (88.8%) exact matches, in which:
167 unique CDR3
6 unique J



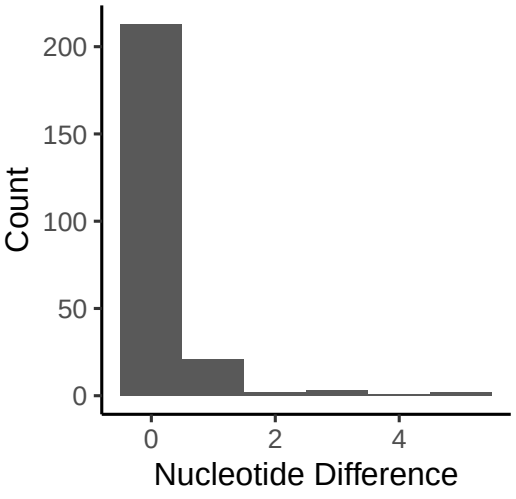
IGHV2−5*02

115 sequences assigned
92 (80%) exact matches, in which:
92 unique CDR3
5 unique J



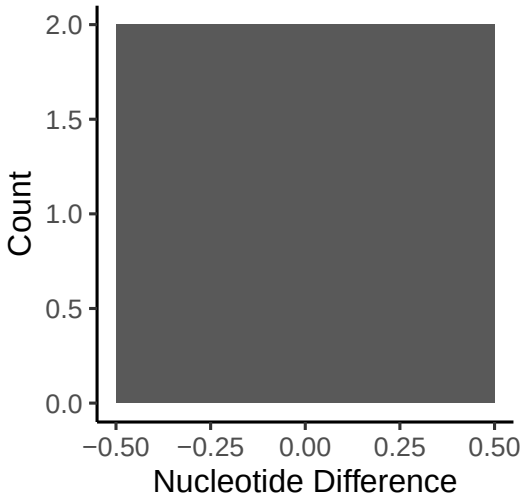
IGHV1−69*12

242 sequences assigned
213 (88%) exact matches, in which:
213 unique CDR3
6 unique J



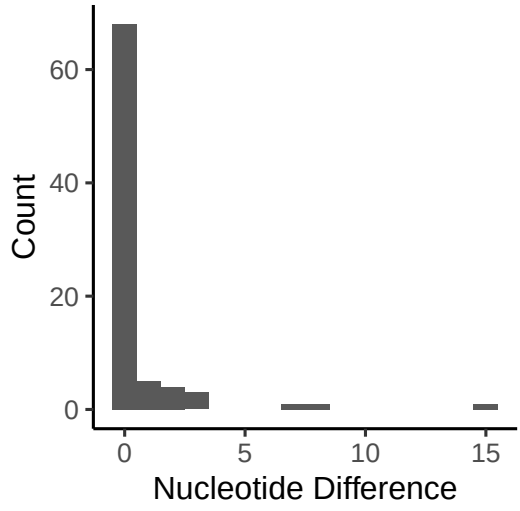
IGHV1−69D*01

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



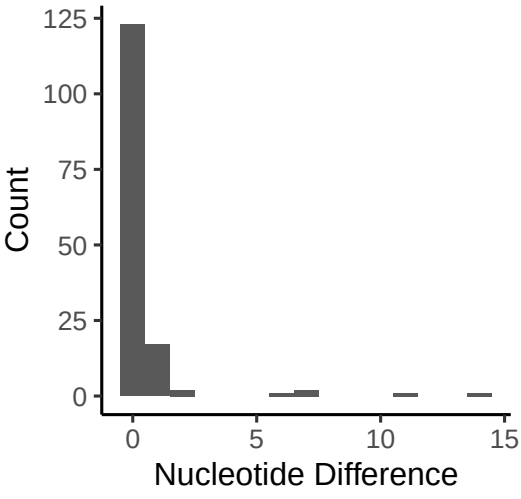
IGHV2−26*01

83 sequences assigned
68 (81.9%) exact matches, in which:
68 unique CDR3
5 unique J



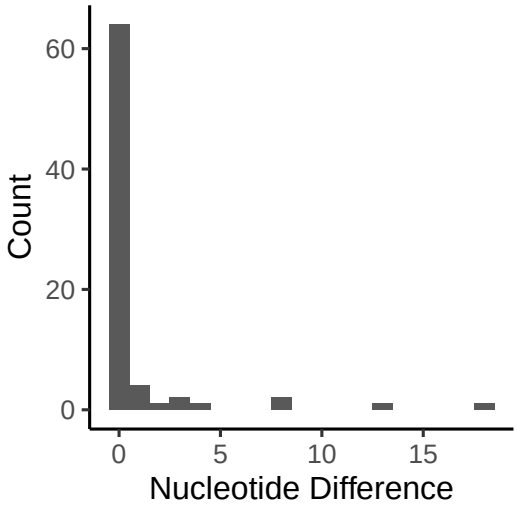
IGHV1−69*08_C191T

147 sequences assigned
123 (83.7%) exact matches, in which:
123 unique CDR3
6 unique J



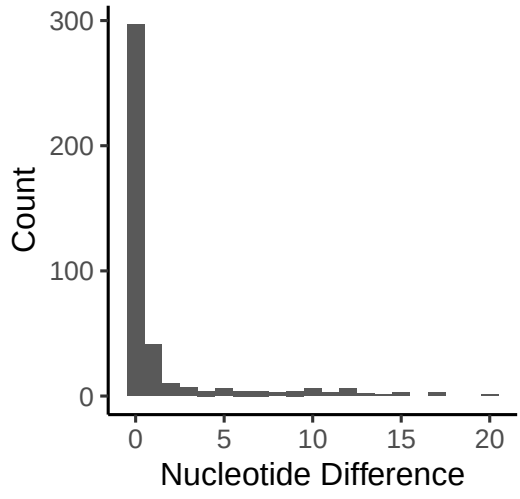
IGHV2−5*01

76 sequences assigned
64 (84.2%) exact matches, in which:
64 unique CDR3
5 unique J



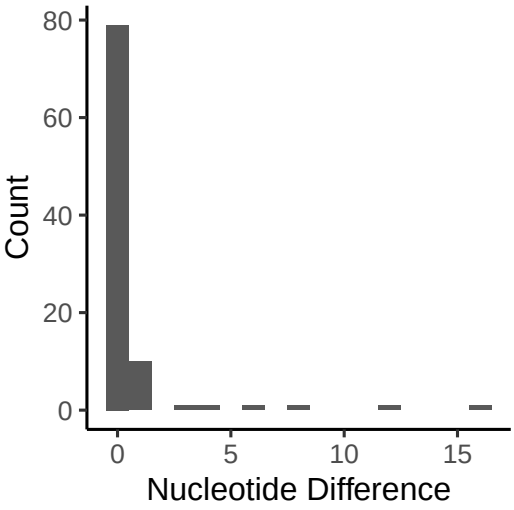
IGHV3−7*01

410 sequences assigned
297 (72.4%) exact matches, in which:
297 unique CDR3
6 unique J



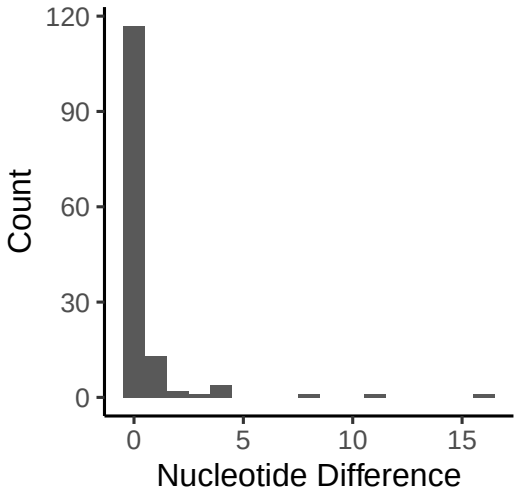
IGHV3−9*03

95 sequences assigned
79 (83.2%) exact matches, in which:
78 unique CDR3
4 unique J



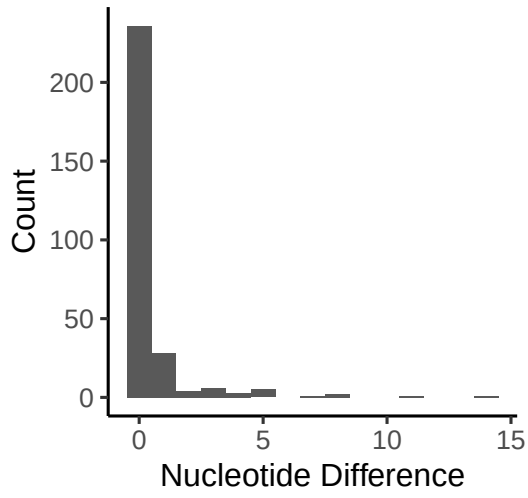
IGHV3−15*01

141 sequences assigned
117 (83%) exact matches, in which:
117 unique CDR3
6 unique J



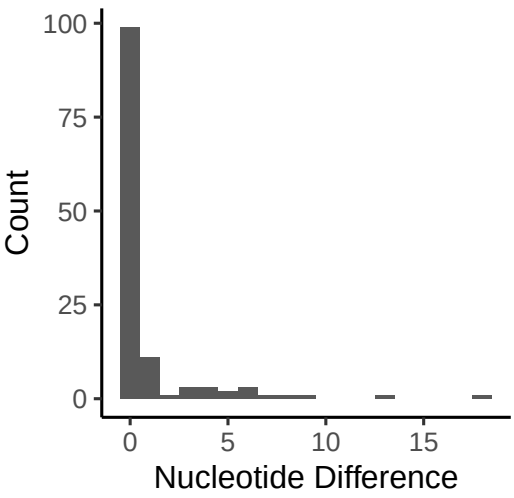
IGHV3−21*03

288 sequences assigned
236 (81.9%) exact matches, in which:
236 unique CDR3
6 unique J



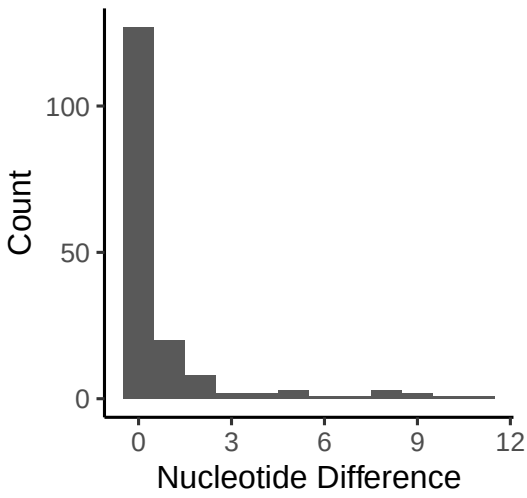
IGHV3−11*04

128 sequences assigned
99 (77.3%) exact matches, in which:
99 unique CDR3
6 unique J



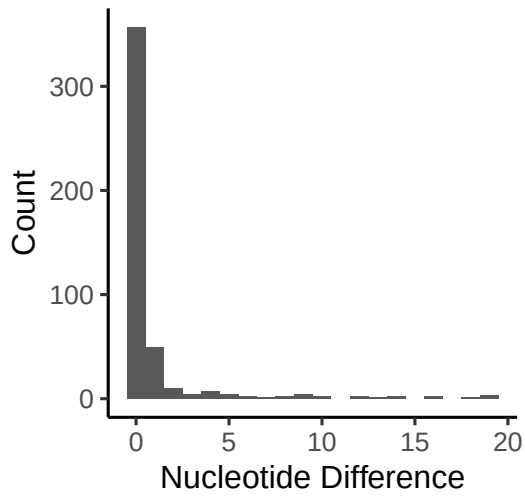
IGHV3−20*04

172 sequences assigned
127 (73.8%) exact matches, in which:
126 unique CDR3
6 unique J



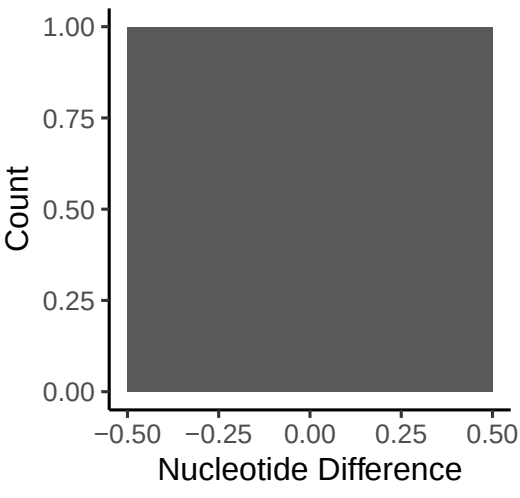
IGHV3−23*04

456 sequences assigned
357 (78.3%) exact matches, in which:
356 unique CDR3
6 unique J



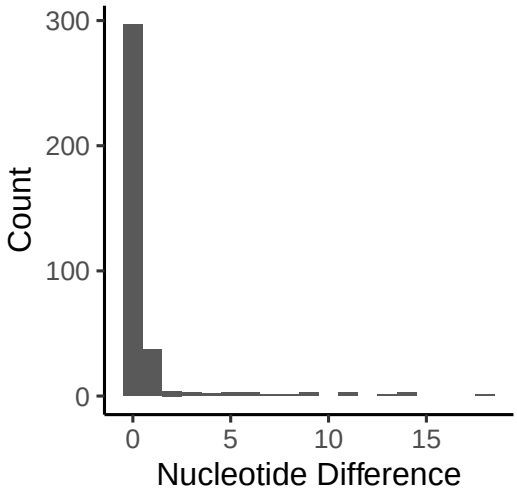
IGHV3−13*03

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



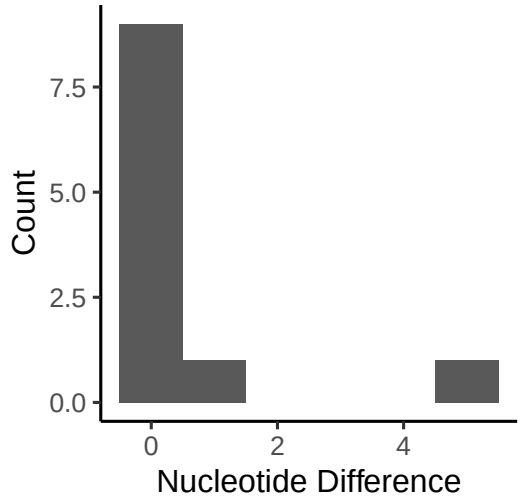
IGHV3−21*01

363 sequences assigned
297 (81.8%) exact matches, in which:
296 unique CDR3
6 unique J



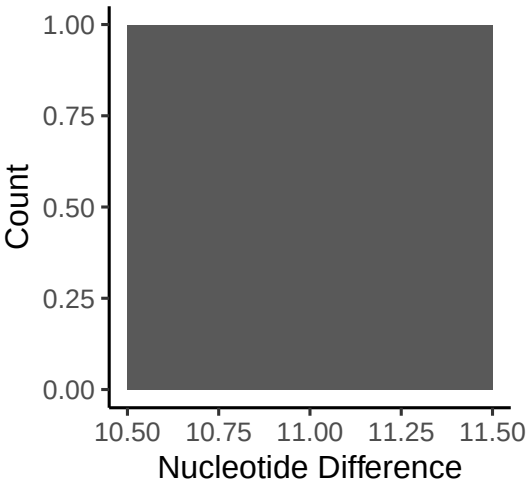
IGHV3−30−3*01

11 sequences assigned
9 (81.8%) exact matches, in which:
9 unique CDR3
4 unique J



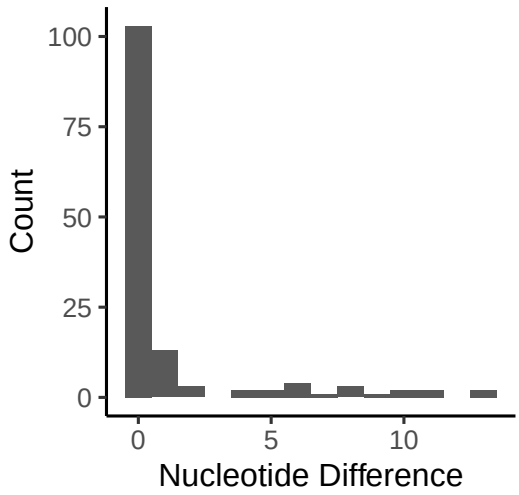
IGHV3−33*05

1 sequences assigned
No exact matches.



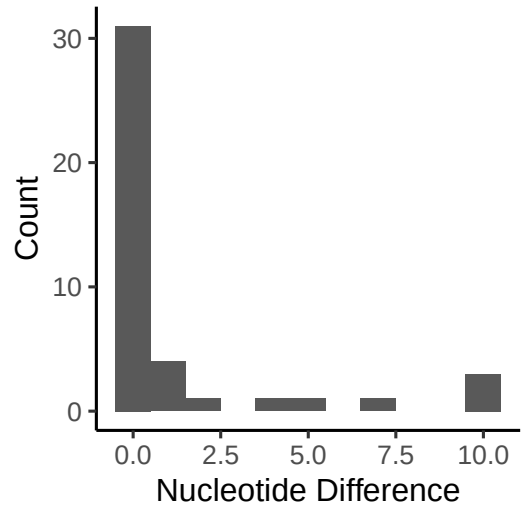
IGHV3−48*01

139 sequences assigned
103 (74.1%) exact matches, in which:
103 unique CDR3
5 unique J



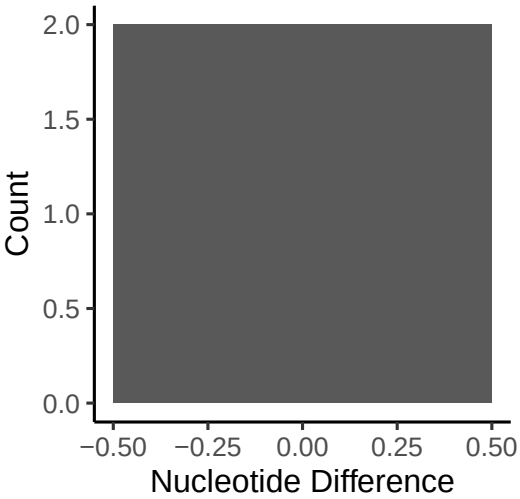
IGHV3−64*01

43 sequences assigned
31 (72.1%) exact matches, in which:
31 unique CDR3
5 unique J



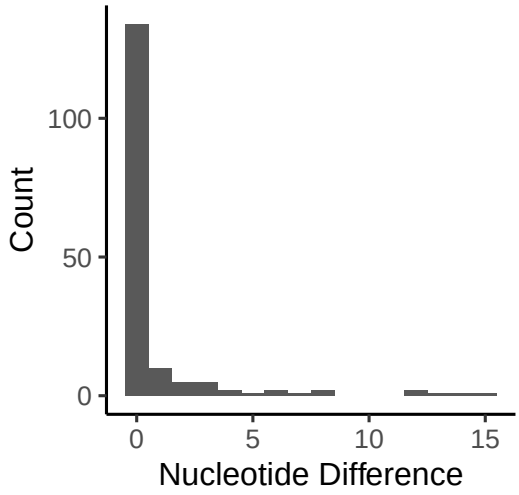
IGHV3−38−3*01

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



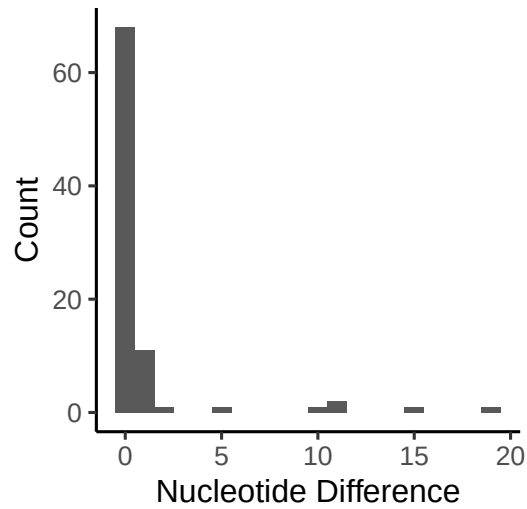
IGHV3−48*01_A39C

167 sequences assigned
134 (80.2%) exact matches, in which:
134 unique CDR3
6 unique J



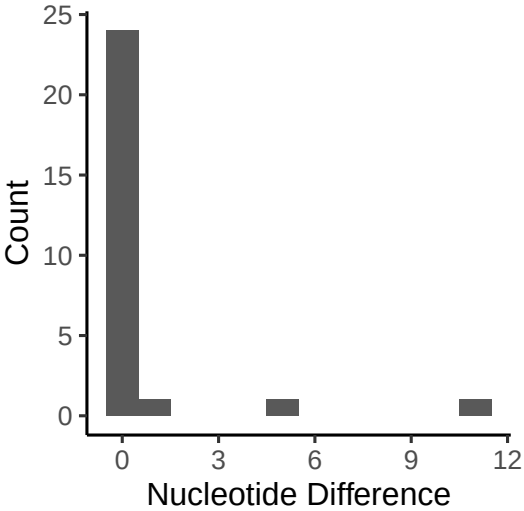
IGHV3−66*02

88 sequences assigned
68 (77.3%) exact matches, in which:
68 unique CDR3
5 unique J



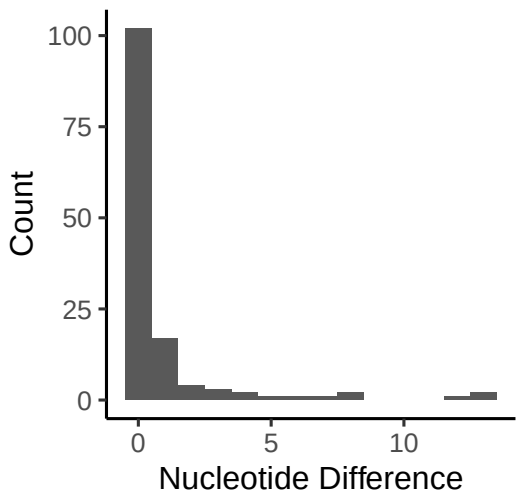
IGHV3−43*01

27 sequences assigned
24 (88.9%) exact matches, in which:
24 unique CDR3
5 unique J



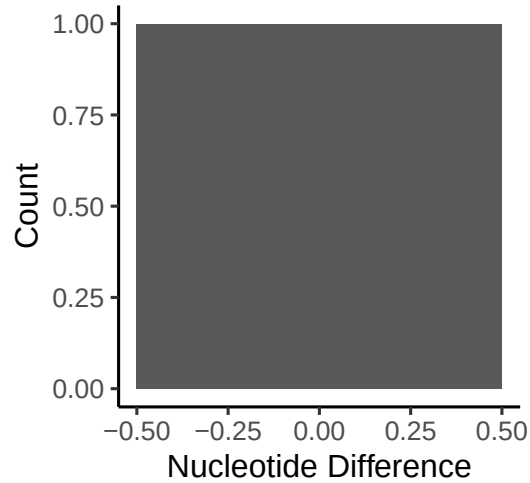
IGHV3−49*04

137 sequences assigned
102 (74.5%) exact matches, in which:
102 unique CDR3
5 unique J



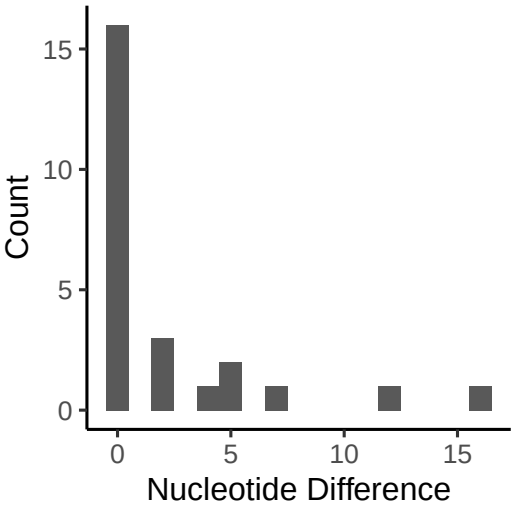
IGHV3−69−1*02

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



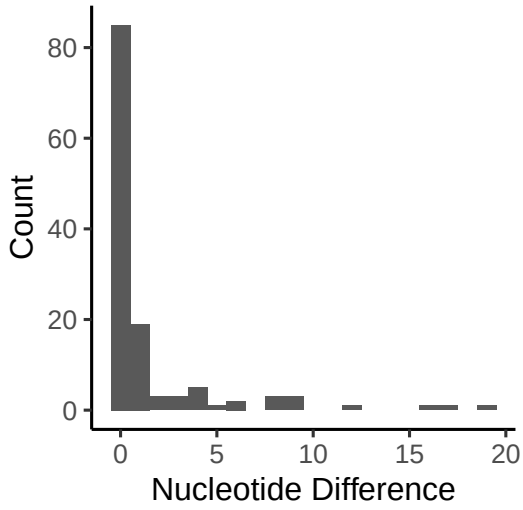
IGHV3−72*01

25 sequences assigned
16 (64%) exact matches, in which:
16 unique CDR3
3 unique J



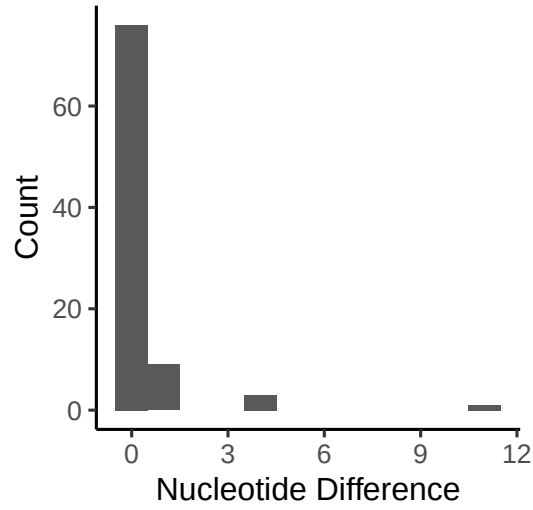
IGHV3−74*01

129 sequences assigned
85 (65.9%) exact matches, in which:
85 unique CDR3
6 unique J



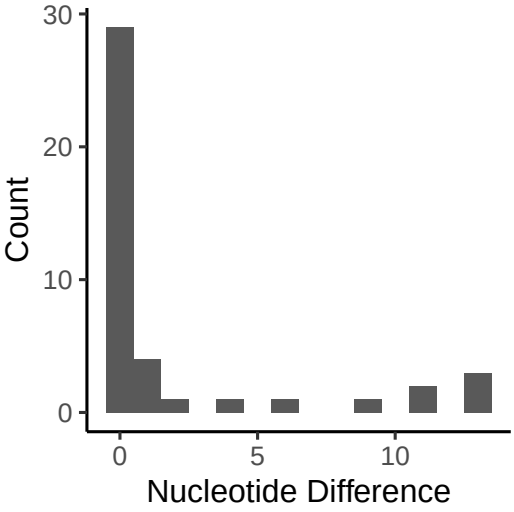
IGHV4−4*02

89 sequences assigned
76 (85.4%) exact matches, in which:
76 unique CDR3
5 unique J



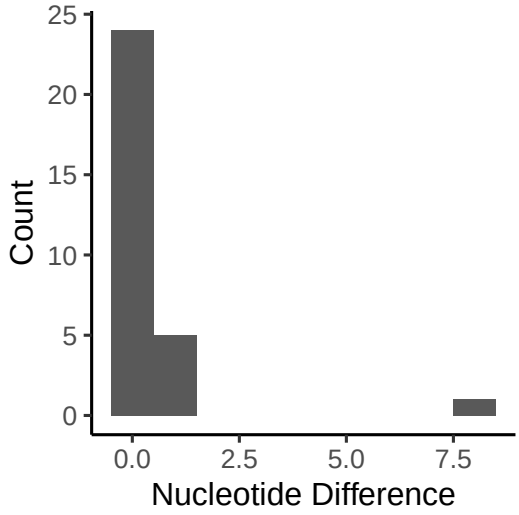
IGHV3−73*01

42 sequences assigned
29 (69%) exact matches, in which:
29 unique CDR3
5 unique J



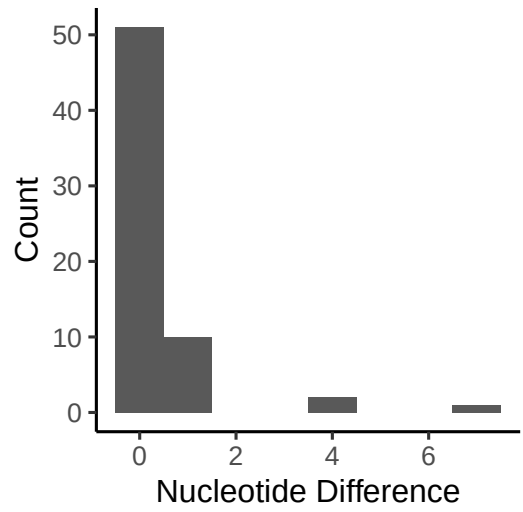
IGHV3−43D*03

30 sequences assigned
24 (80%) exact matches, in which:
24 unique CDR3
5 unique J



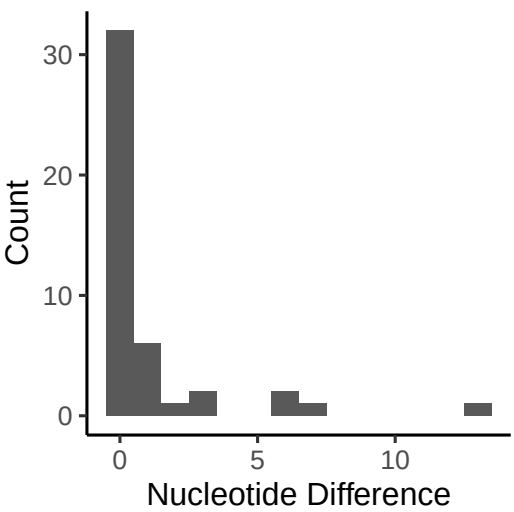
IGHV4−4*07

64 sequences assigned
51 (79.7%) exact matches, in which:
51 unique CDR3
5 unique J



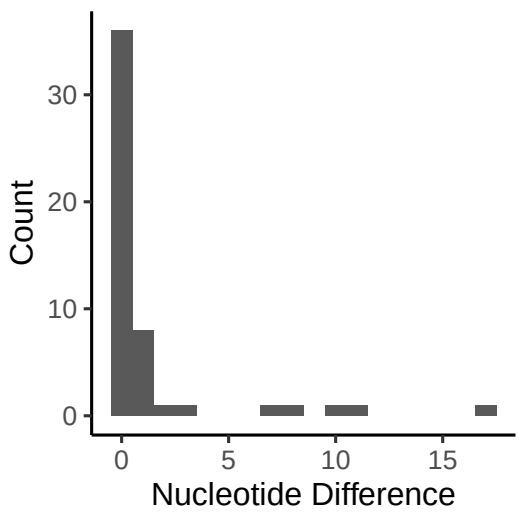
IGHV3−73*02

45 sequences assigned
32 (71.1%) exact matches, in which:
32 unique CDR3
4 unique J



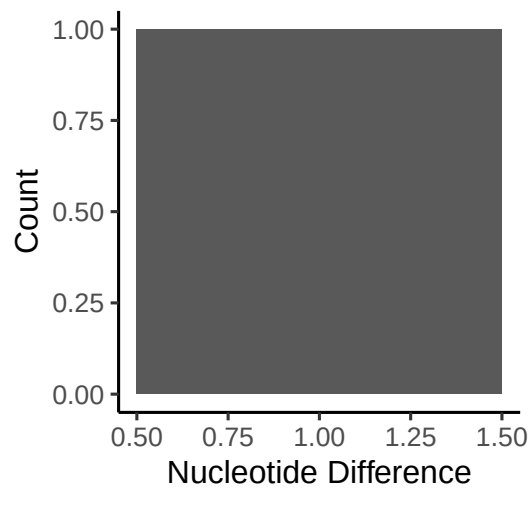
IGHV3−43D*04

51 sequences assigned
36 (70.6%) exact matches, in which:
36 unique CDR3
6 unique J



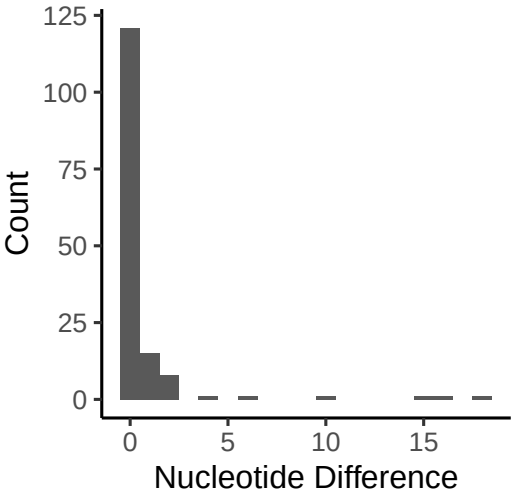
IGHV4−30−2*05

1 sequences assigned
No exact matches.



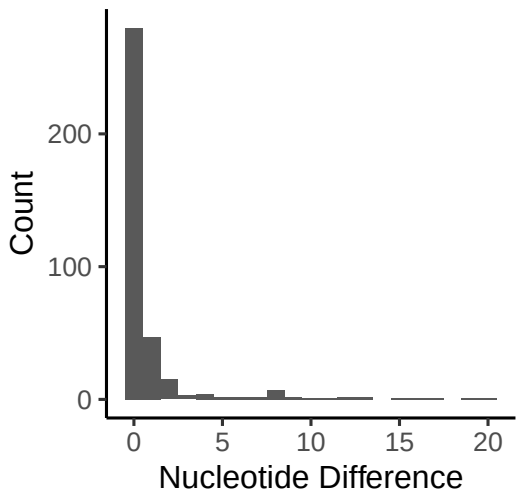
IGHV4−30−4*08

150 sequences assigned
121 (80.7%) exact matches, in which:
121 unique CDR3
6 unique J



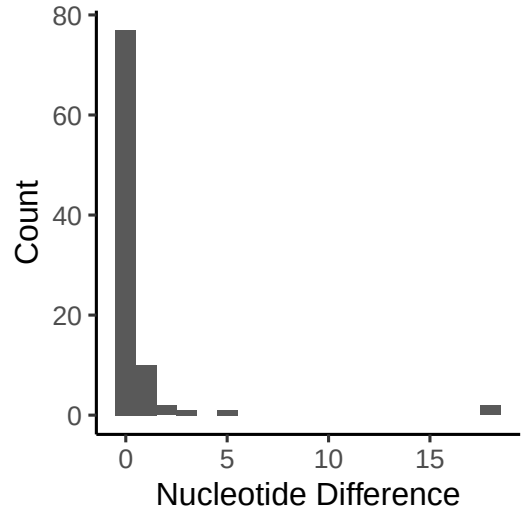
IGHV4−38−2*02

375 sequences assigned
280 (74.7%) exact matches, in which:
278 unique CDR3
6 unique J



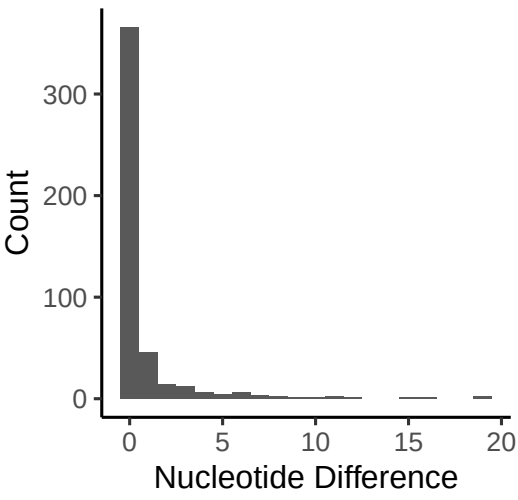
IGHV4−59*08

94 sequences assigned
77 (81.9%) exact matches, in which:
77 unique CDR3
6 unique J



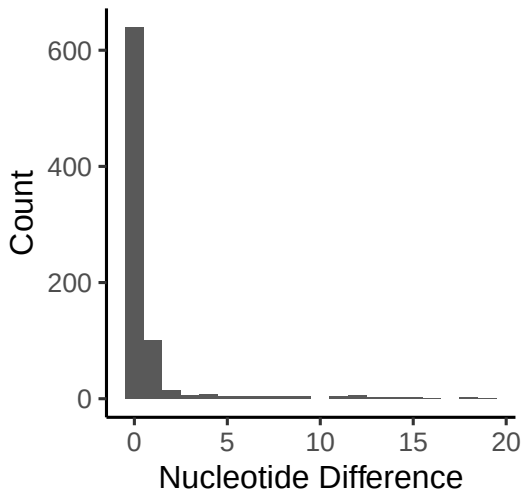
IGHV4−34*01

470 sequences assigned
366 (77.9%) exact matches, in which:
363 unique CDR3
6 unique J



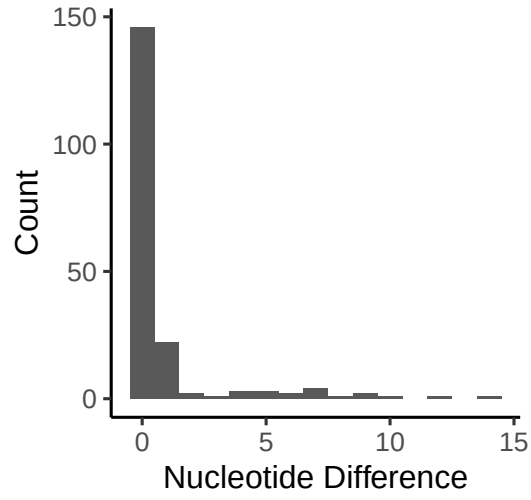
IGHV4−39*01

813 sequences assigned
640 (78.7%) exact matches, in which:
639 unique CDR3
6 unique J



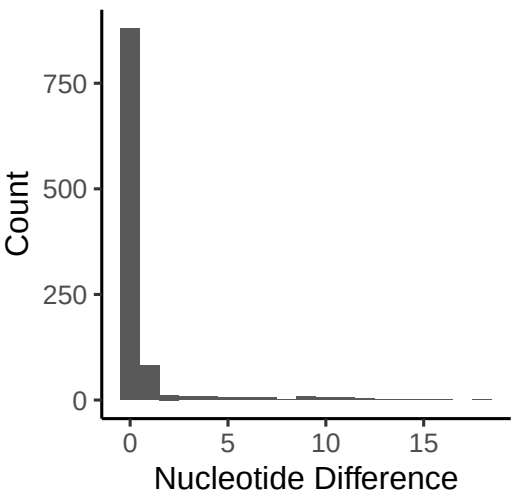
IGHV4−61*02

192 sequences assigned
146 (76%) exact matches, in which:
146 unique CDR3
6 unique J



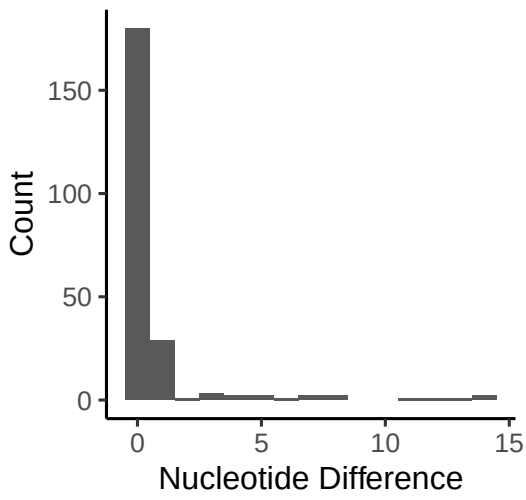
IGHV4−38−2*01

1041 sequences assigned
880 (84.5%) exact matches, in which:
880 unique CDR3
6 unique J



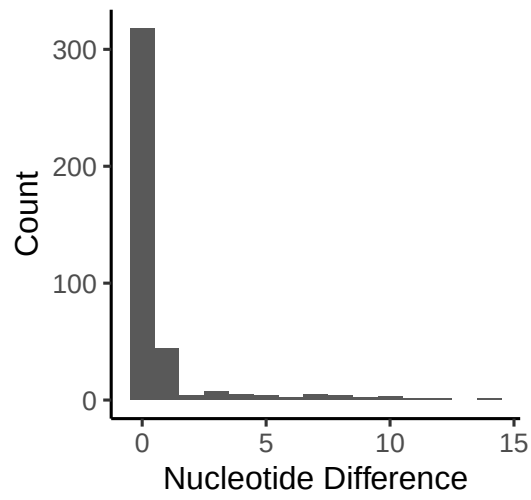
IGHV4−59*01

227 sequences assigned
180 (79.3%) exact matches, in which:
178 unique CDR3
6 unique J



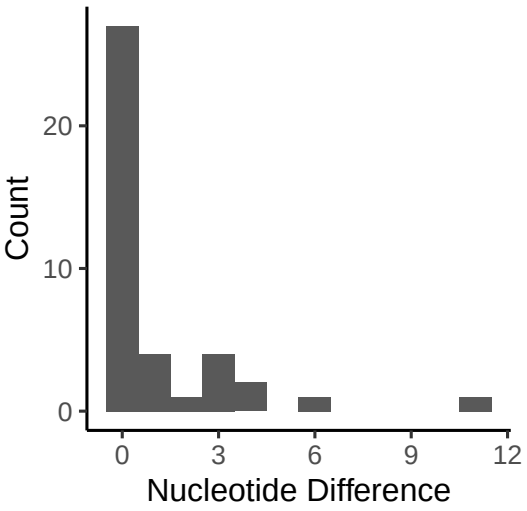
IGHV5−51*01

405 sequences assigned
318 (78.5%) exact matches, in which:
318 unique CDR3
6 unique J



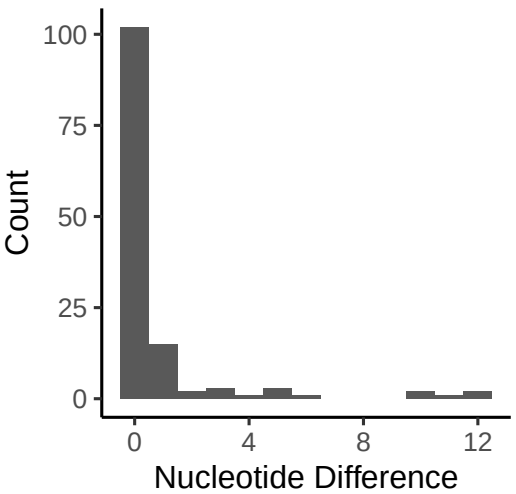
IGHV6−1*01

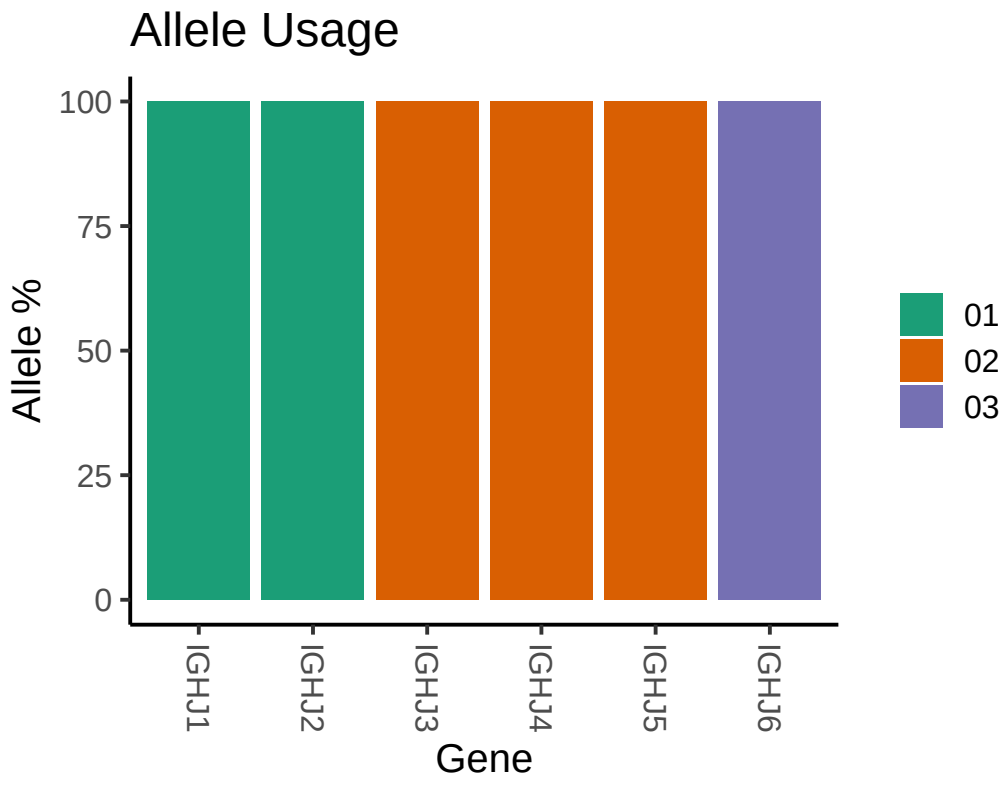
41 sequences assigned
27 (65.9%) exact matches, in which:
27 unique CDR3
4 unique J



IGHV7−4−1*02

132 sequences assigned
102 (77.3%) exact matches, in which:
102 unique CDR3
6 unique J




Allele Usage
100
75
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IGHJ3
IGHJ4
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IGHJ6
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03

Warning − no inferred sequences found.

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