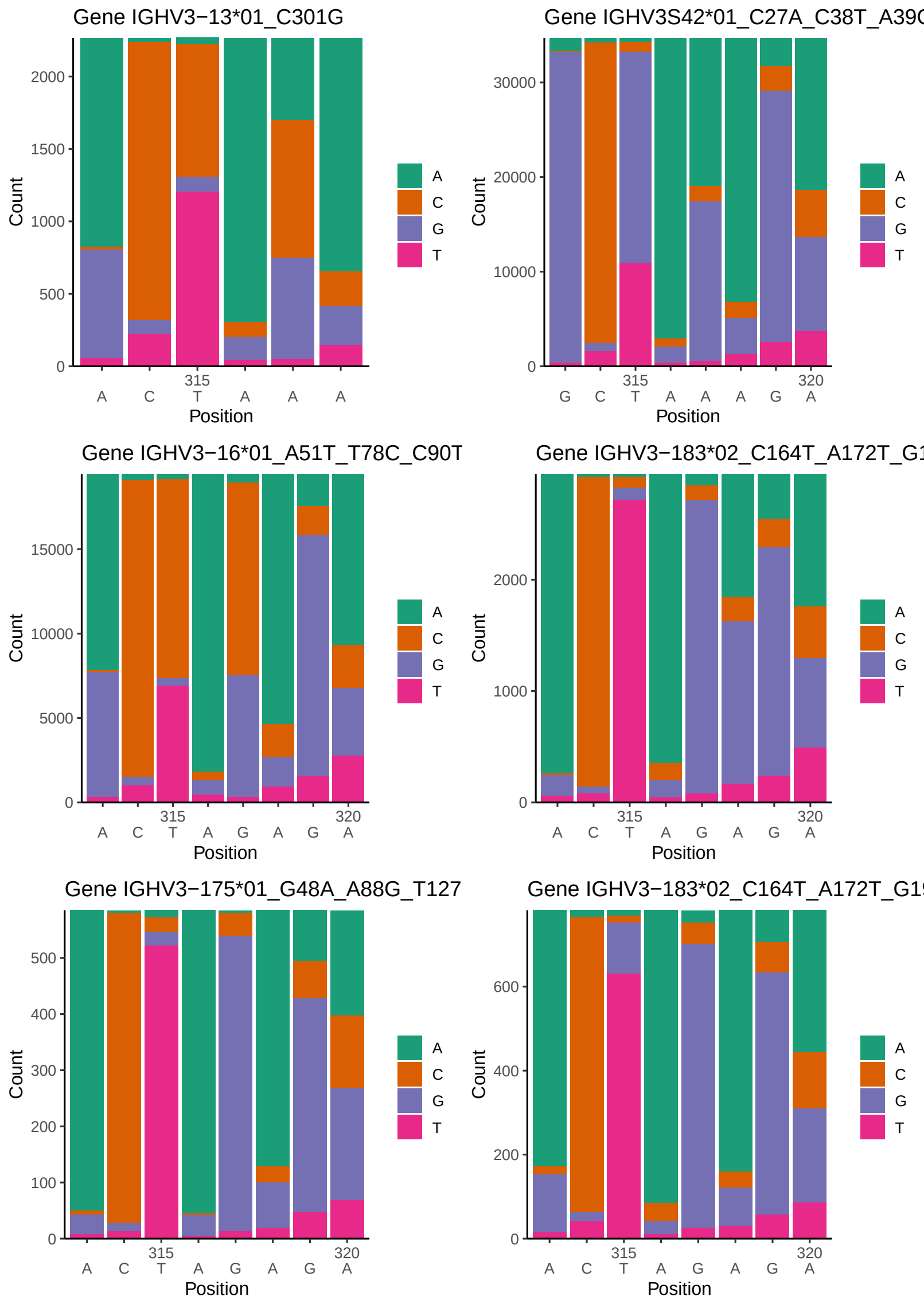
Gene IGHV3−13*01_C301G
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1000
500
0
315
A C T A A A
Position
A
C
G
T
Gene IGHV3S42*01_C27A_C38T_A390
Count
30000
20000
10000
0
315
320
G C T A A A G A
Position
A
C
G
T
Gene IGHV3−16*01_A51T_T78C_C90T
Count
15000
10000
5000
0
315
320
A C T A G A G A
Position
A
C
G
T
Gene IGHV3−183*02_C164T_A172T_G1
Count
2000
1000
0
315
320
A C T A G A G A
Position
A
C
G
T
Gene IGHV3−175*01_G48A_A88G_T127
Count
500
400
300
200
100
0
315
320
A C T A G A G A
Position
A
C
G
T
Gene IGHV3−183*02_C164T_A172T_G1
Count
600
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200
0
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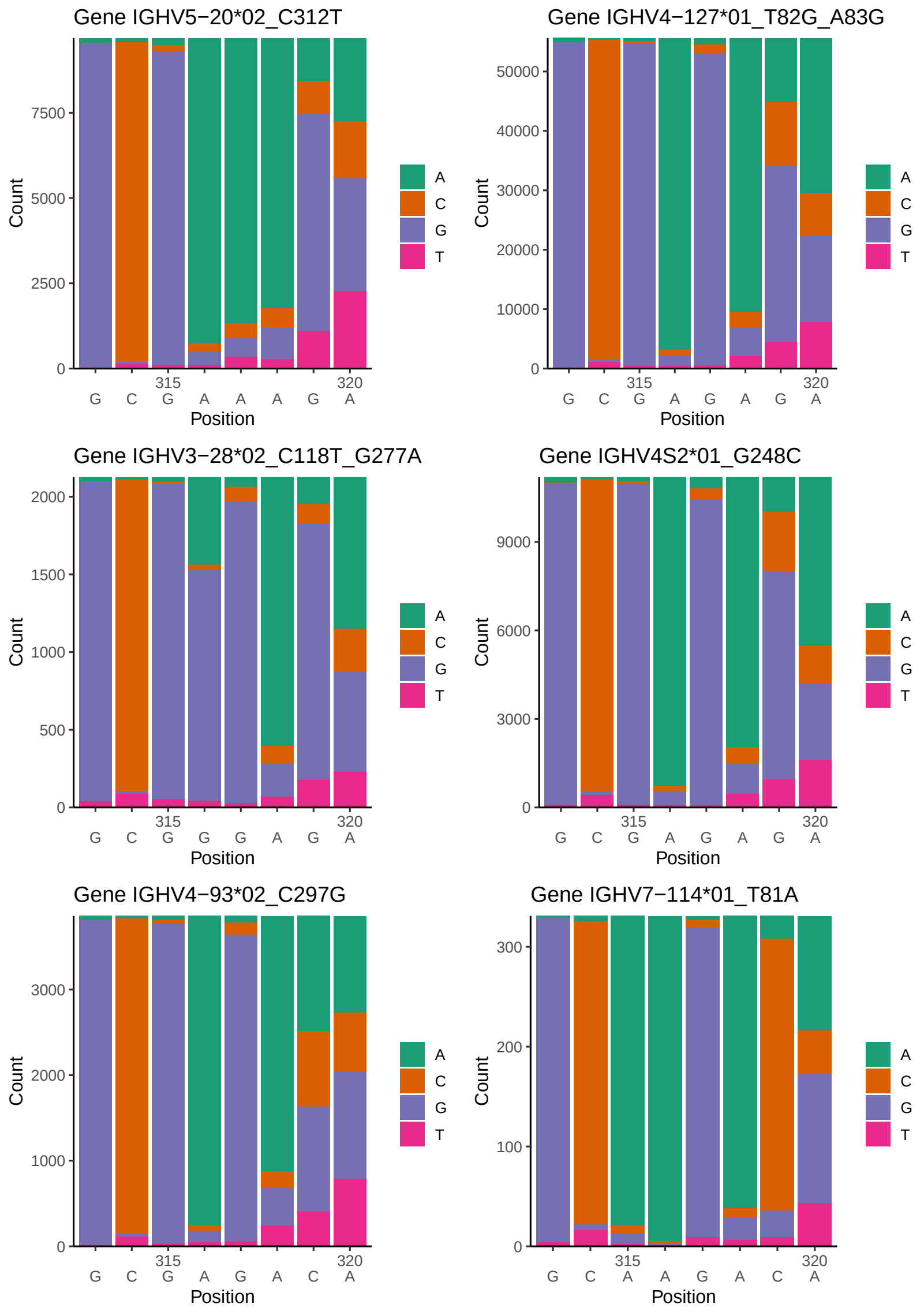
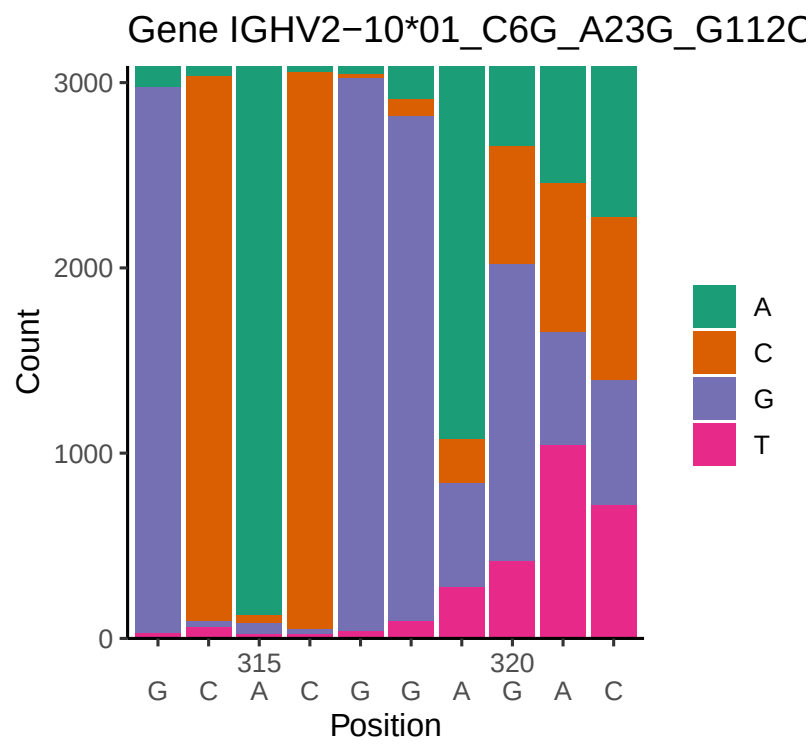
320
A C T A G A G A
Position
A
C
G
T


Gene IGHV5−20*02_C312T
Count
Position
A
C
G
T
Gene IGHV4−127*01_T82G_A83G
Gene IGHV3−28*02_C118T_G277A
Gene IGHV4S2*01_G248C
Gene IGHV4−93*02_C297G
Gene IGHV7−114*01_T81A


Gene IGHV2−10*01_C6G_A23G_G112C
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0
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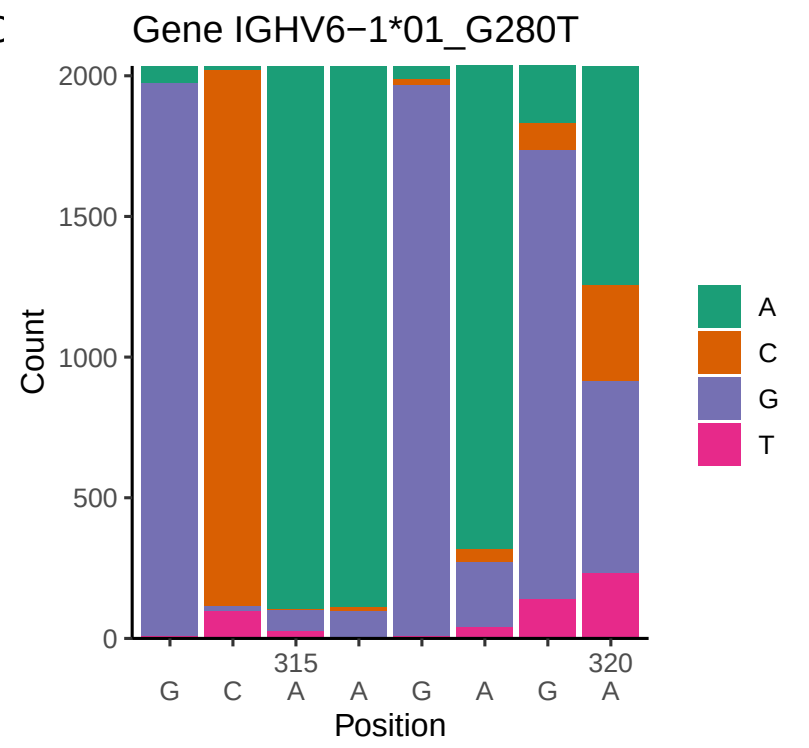
A
C
G
T


Gene IGHV6−1*01_G280T
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1000
500
0
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320
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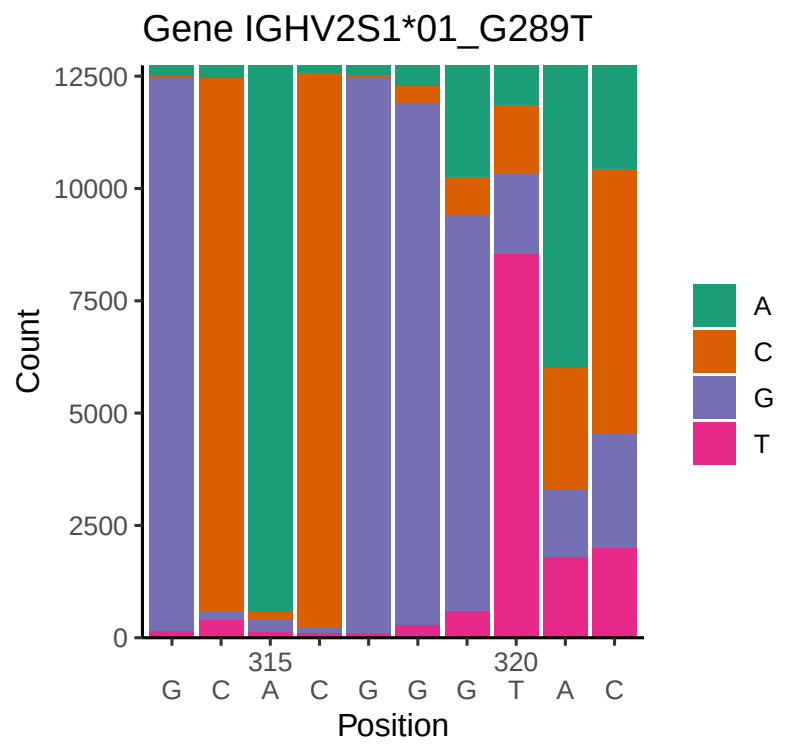
Position
A
C
G
T


Gene IGHV2S1*01_G289T
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10000
7500
5000
2500
0
315
320
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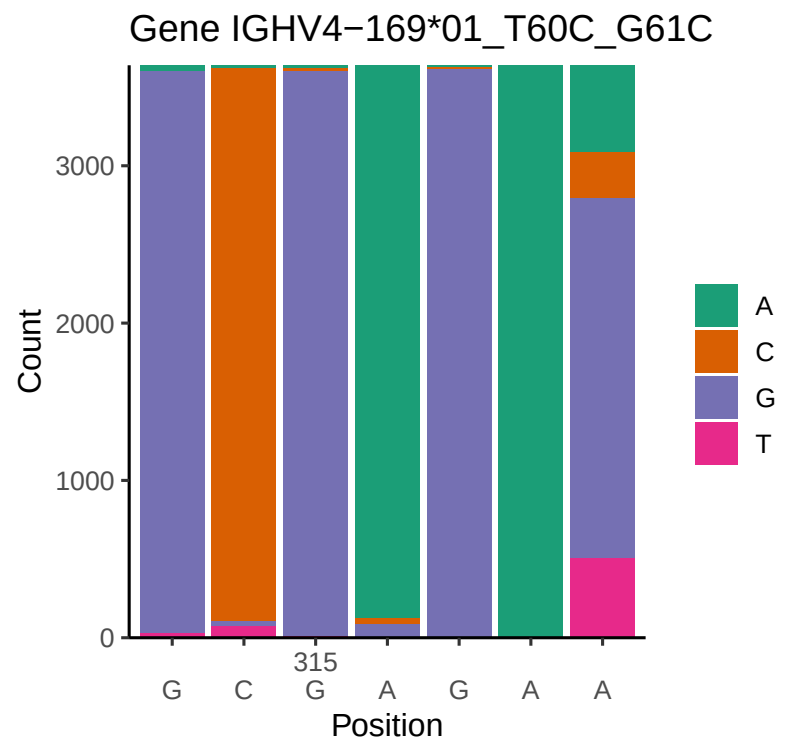
Position
A
C
G
T


Gene IGHV4−169*01_T60C_G61C
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1000
0
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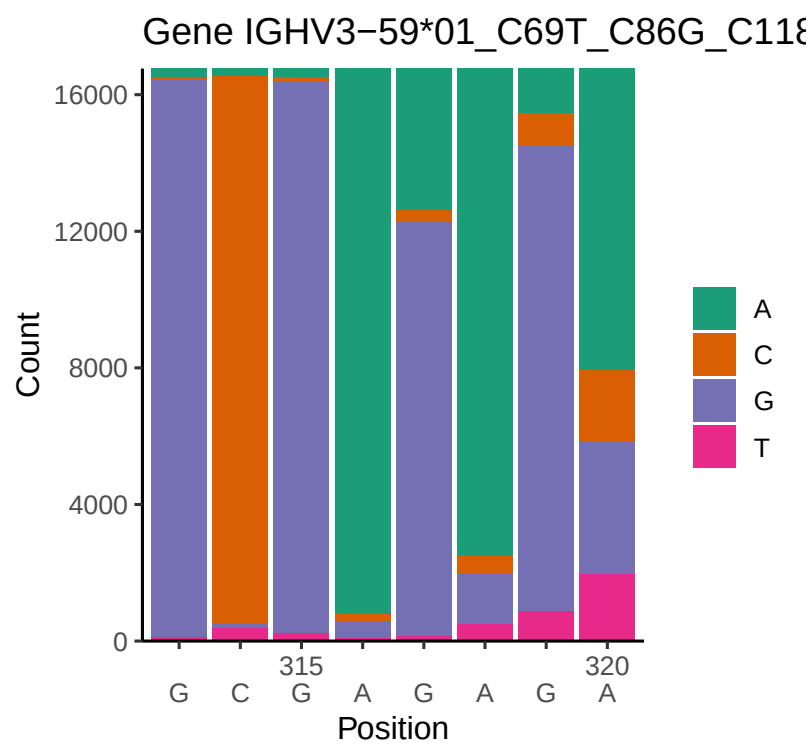
Position
A
C
G
T


Gene IGHV3−59*01_C69T_C86G_C11
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4000
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315
320
G C G A G A G A
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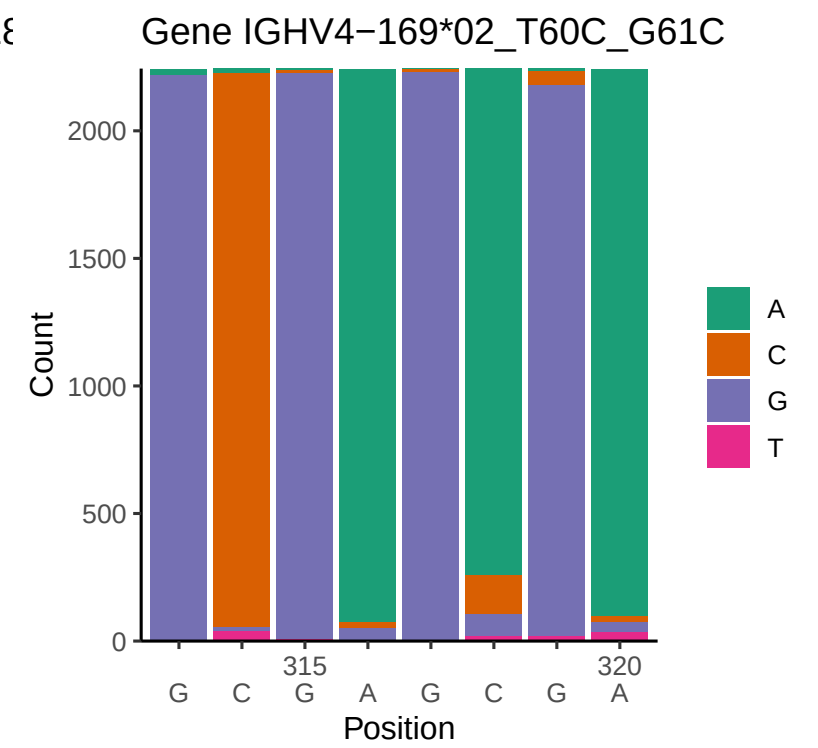
A
C
G
T


Gene IGHV4−169*02_T60C_G61C
Count
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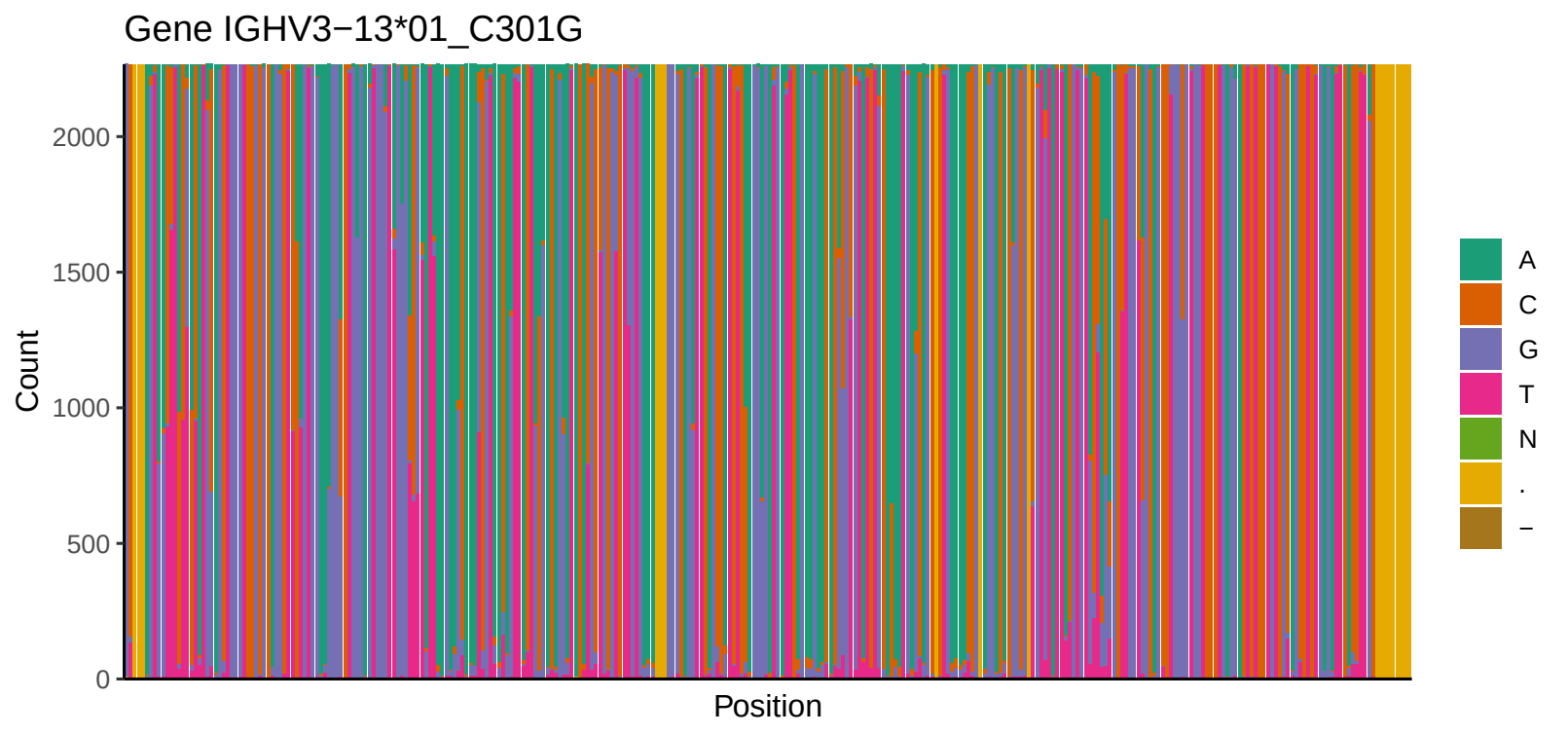
1500
1000
500
0
315
320
G C G A G C G A
Position
A
C
G
T


Gene IGHV3−13*01_C301G
Count
2000
1500
1000
500
0
Position
A
C
G
T
N
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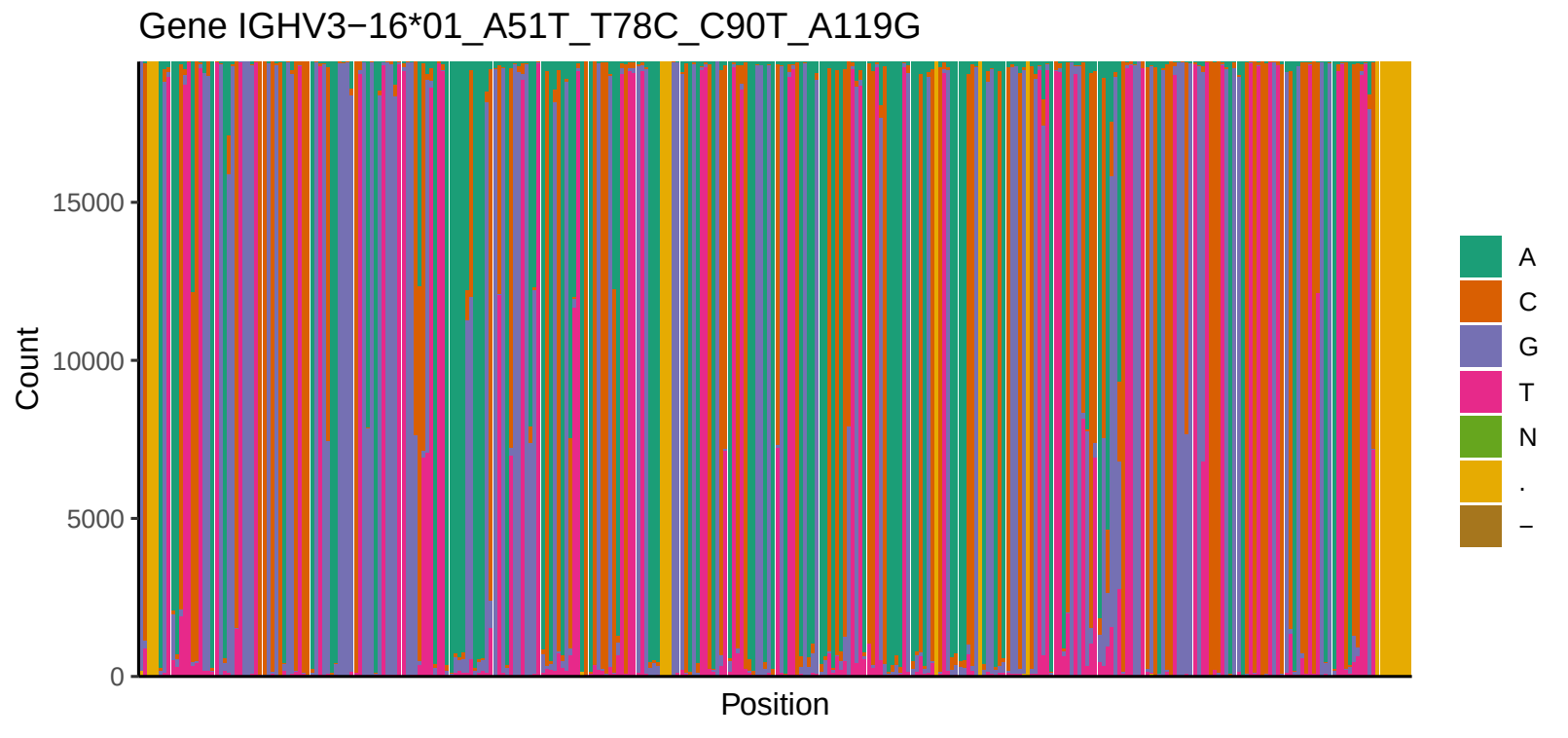
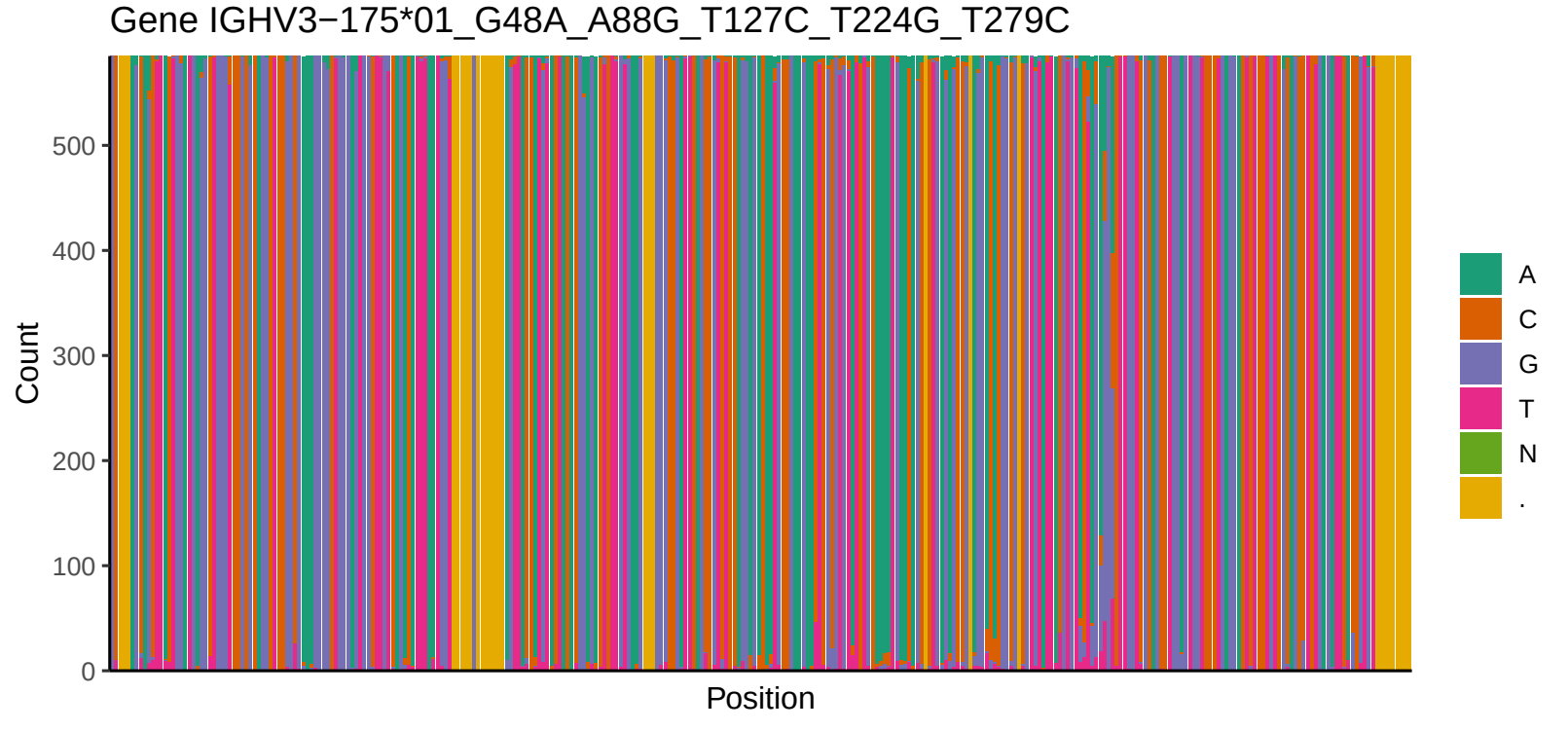

Gene IGHV3−16*01_A51T_T78C_C90T_A119G
Count
15000
10000
5000
0
Position
A
C
G
T
N
.
–


Gene IGHV3−175*01_G48A_A88G_T127C_T224G_T279C
Count
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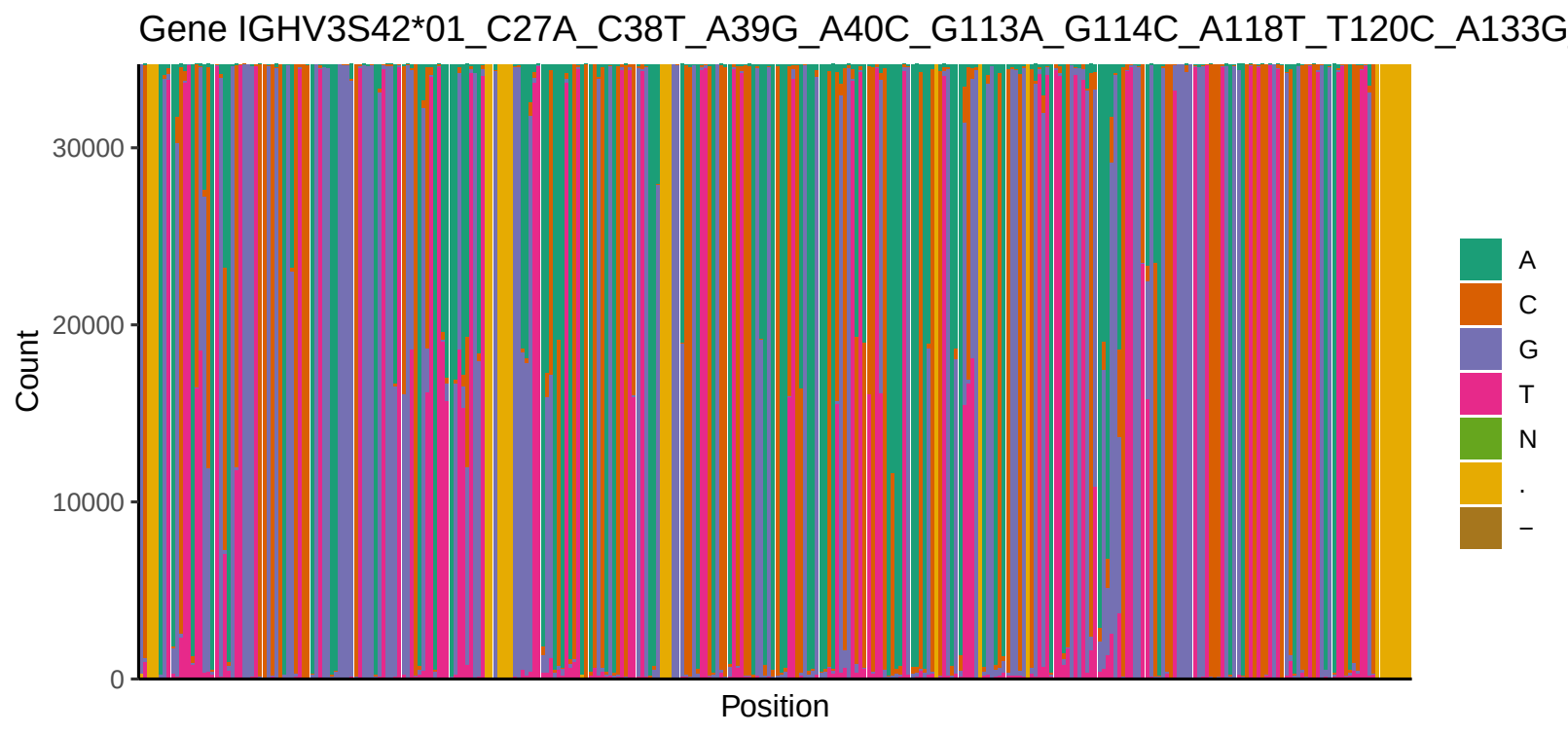
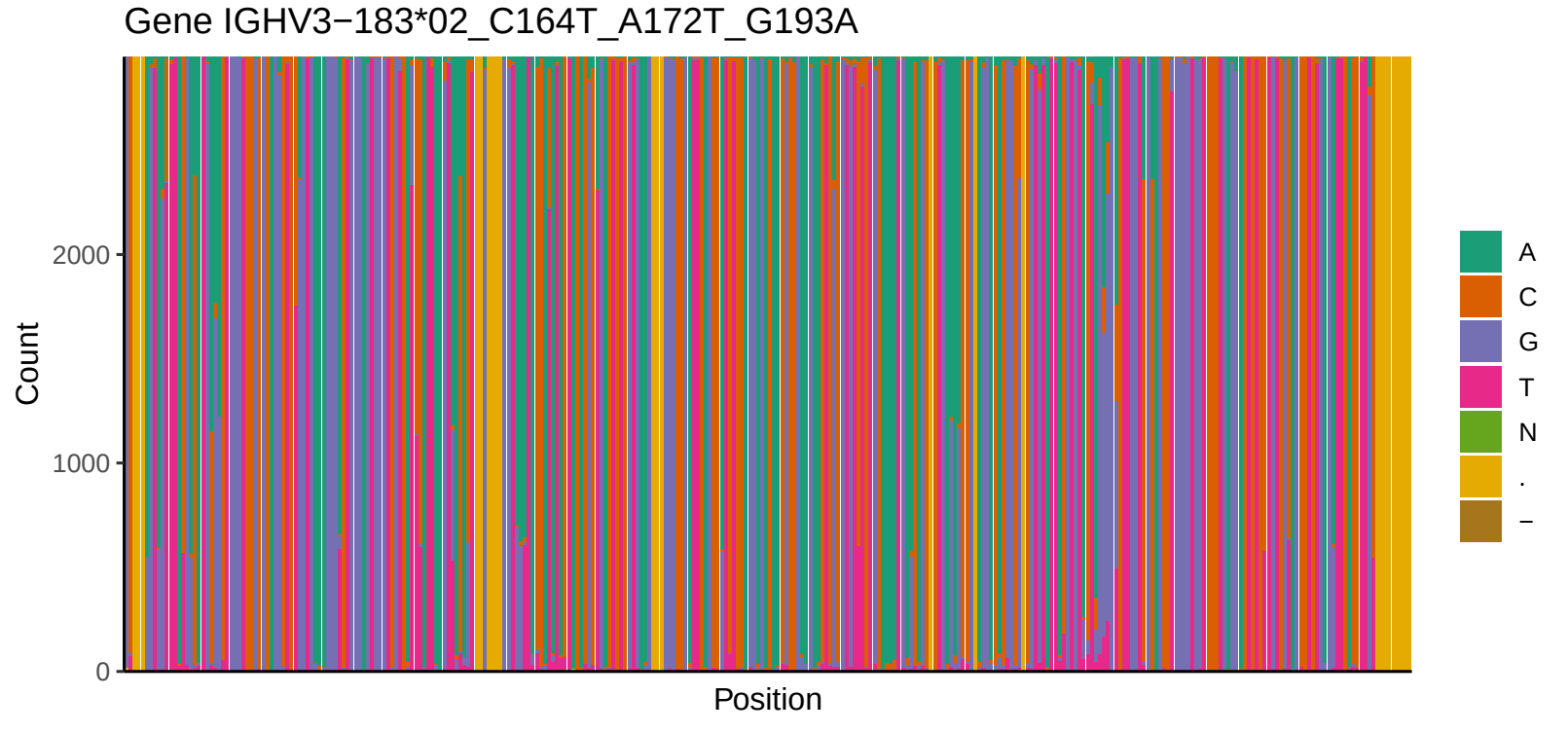
300
200
100
0
Position
A
C
G
T
N
.


Gene IGHV3S42*01_C27A_C38T_A39G_A40C_G113A_G114C_A118T_T120C_A133G
30000
20000
10000
0
Count
Position
A
C
G
T
N
.
–


Gene IGHV3−183*02_C164T_A172T_G193A
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1000
0
Count
Position
A
C
G
T
N
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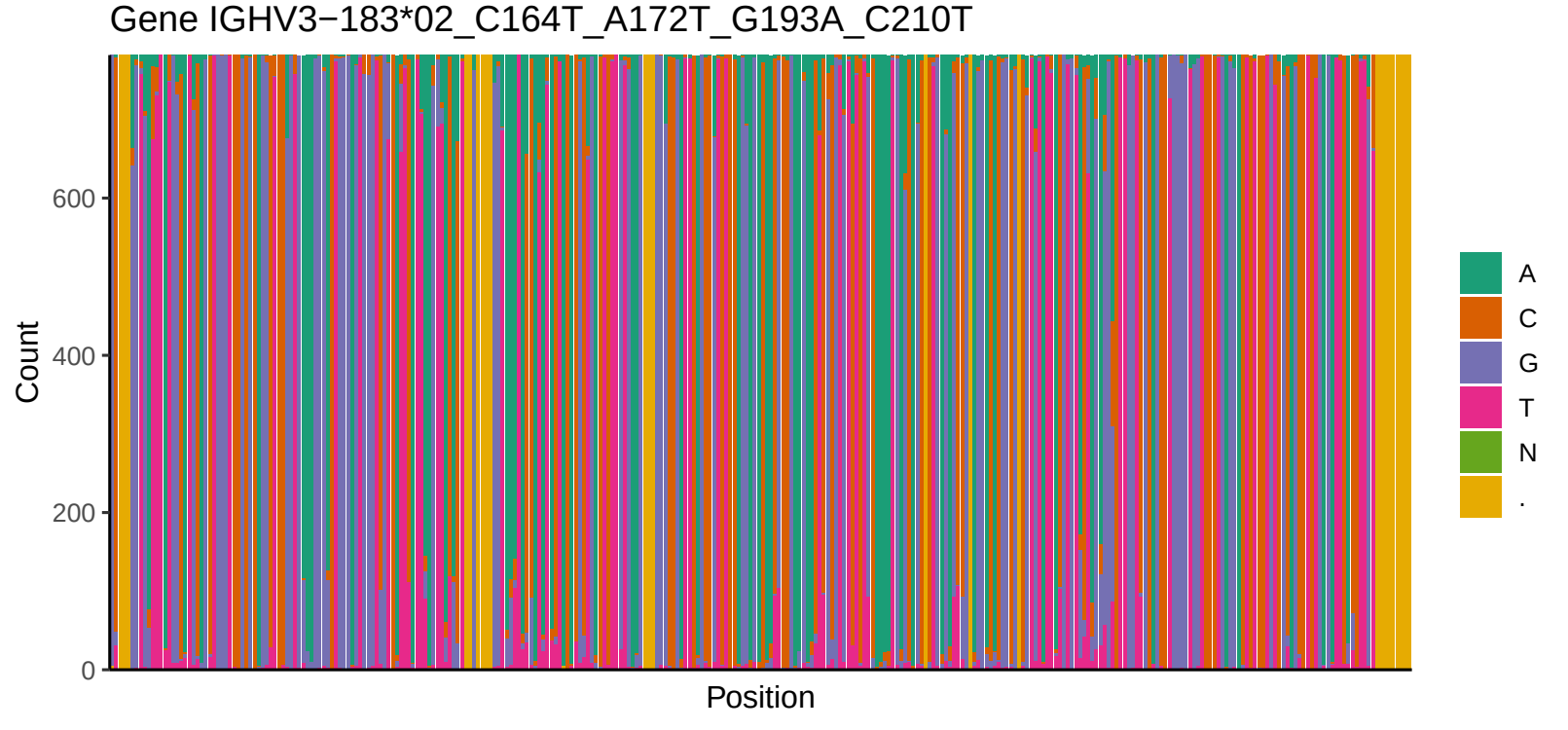
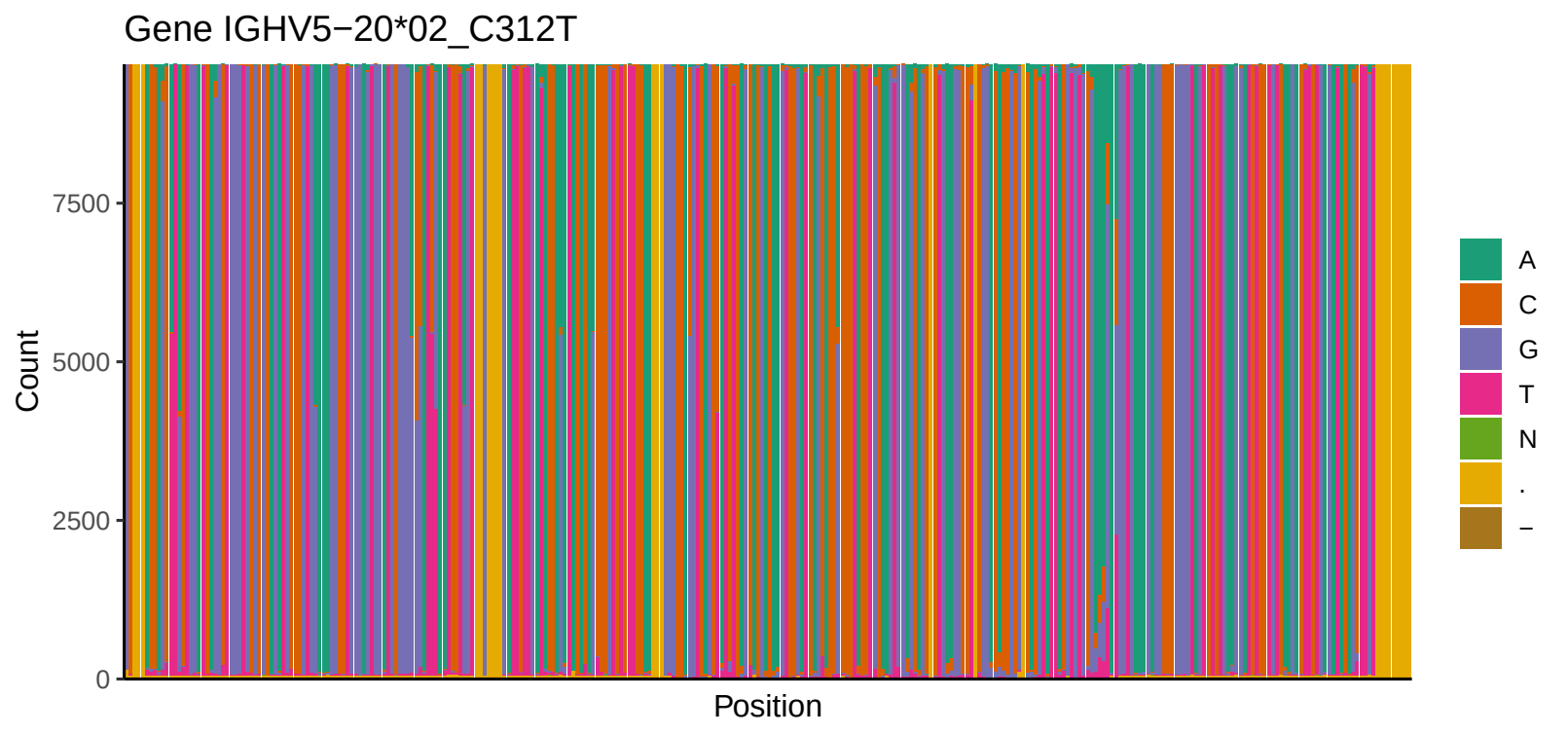
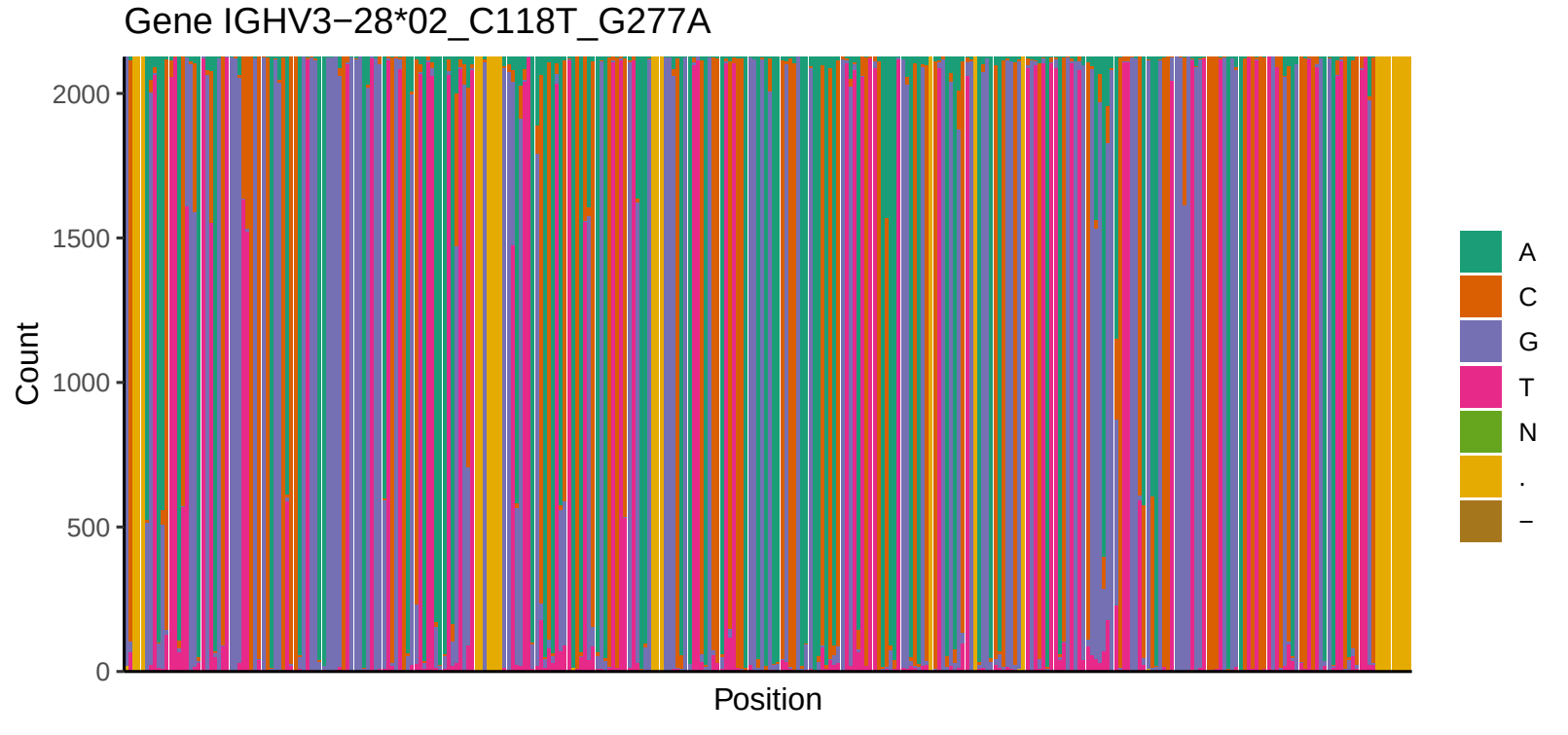
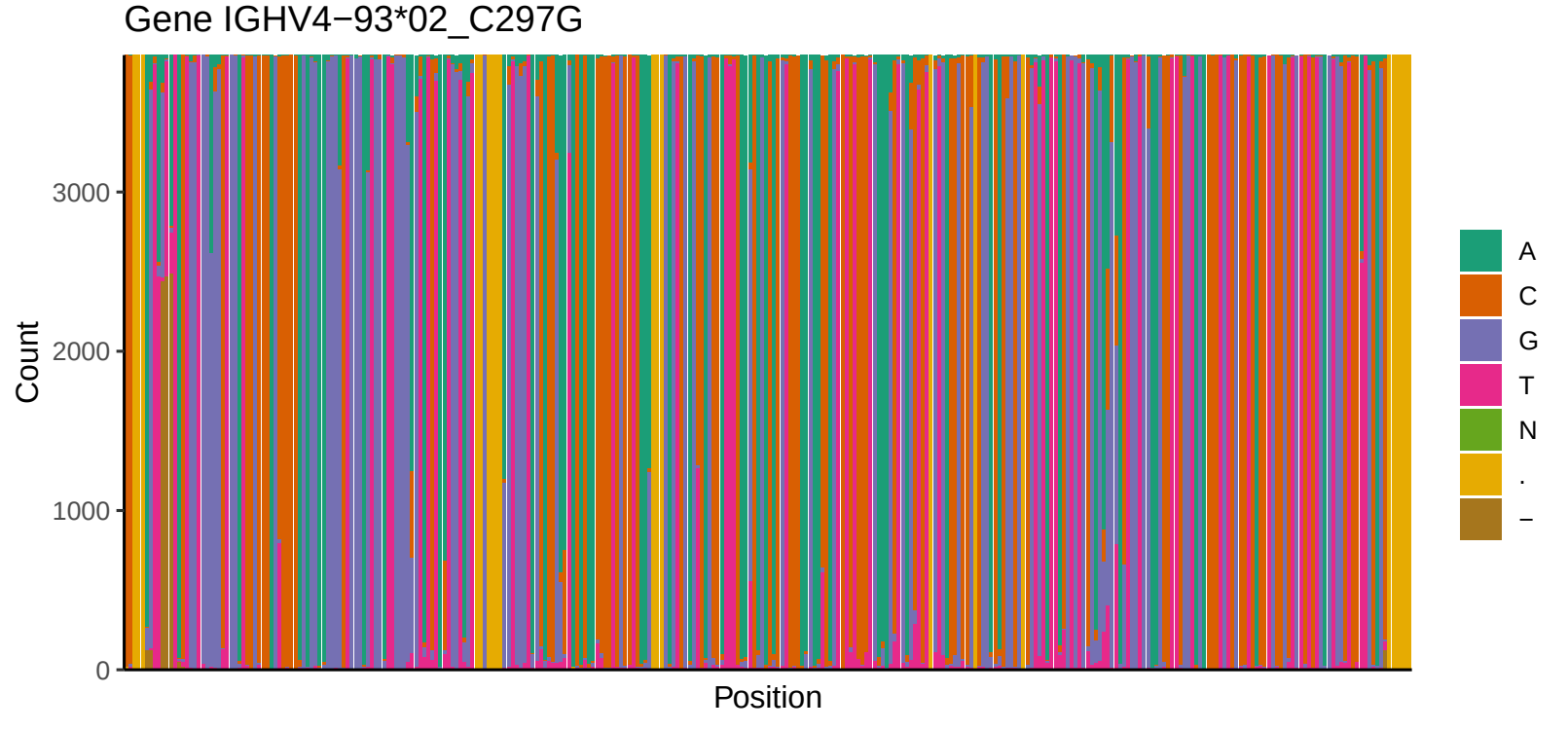
–

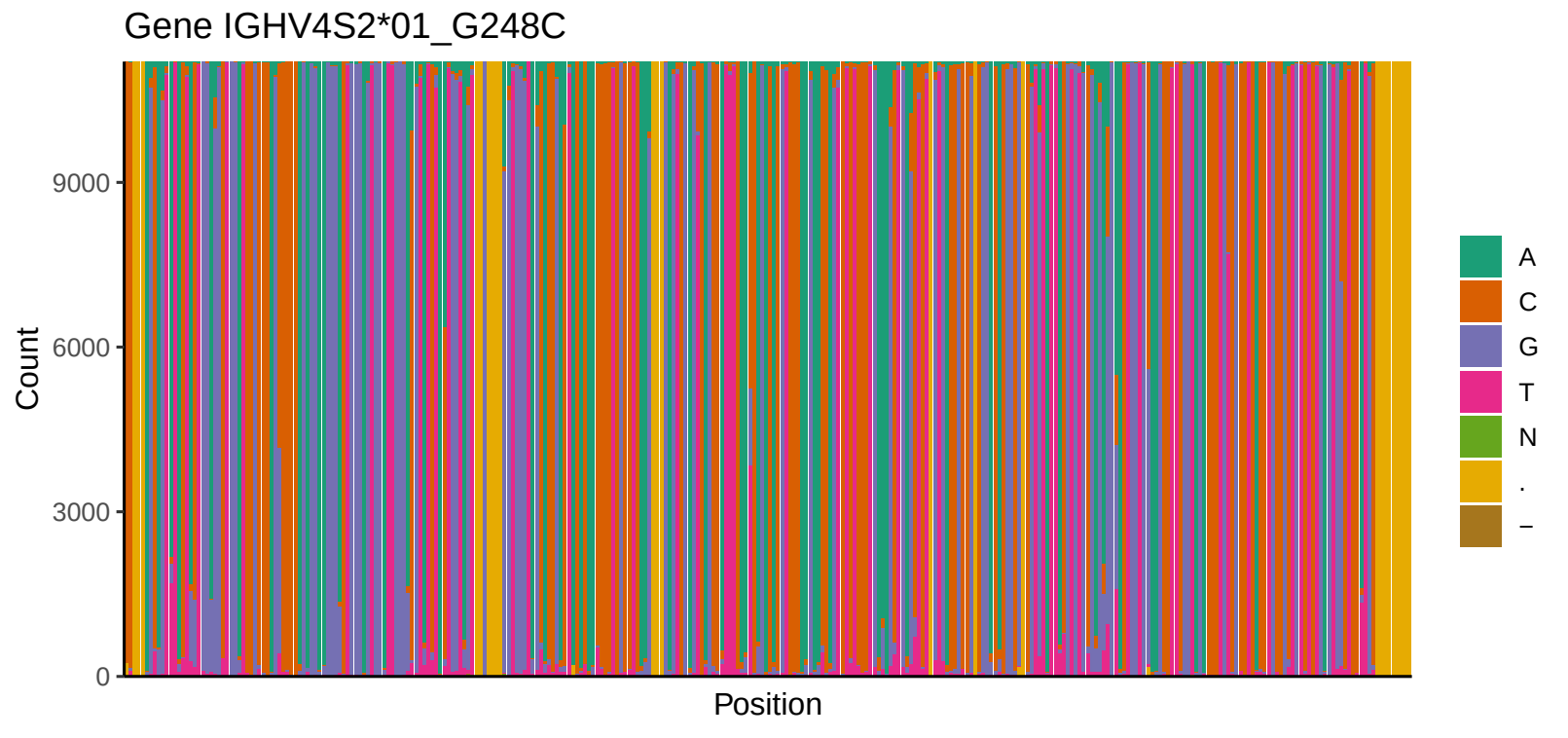

Gene IGHV3−183*02_C164T_A172T_G193A_C210T
600
400
200
0
Count
Position
A
C
G
T
N
.

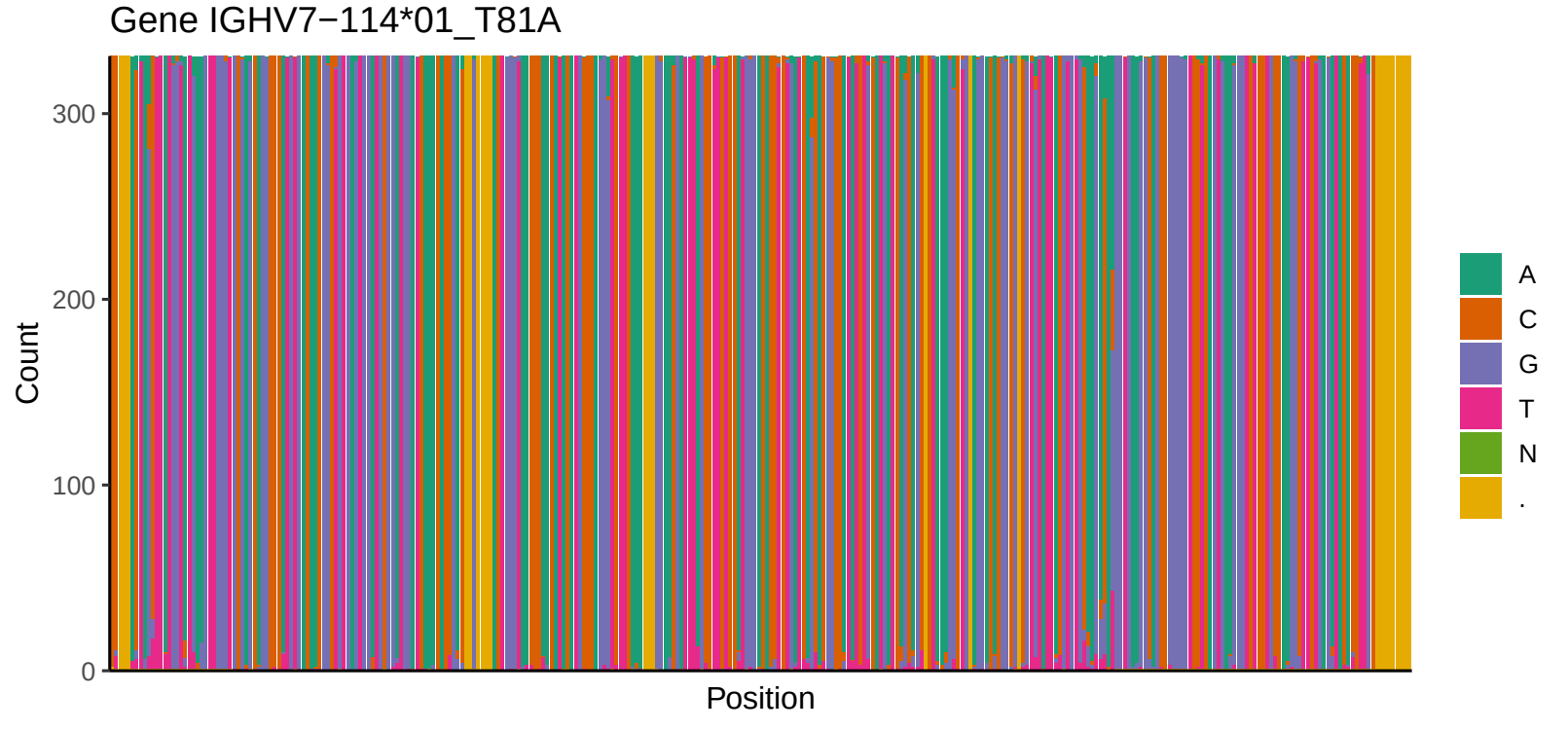

Gene IGHV5−20*02_C312T
Count
7500
5000
2500
0
Position
A
C
G
T
N
.
–

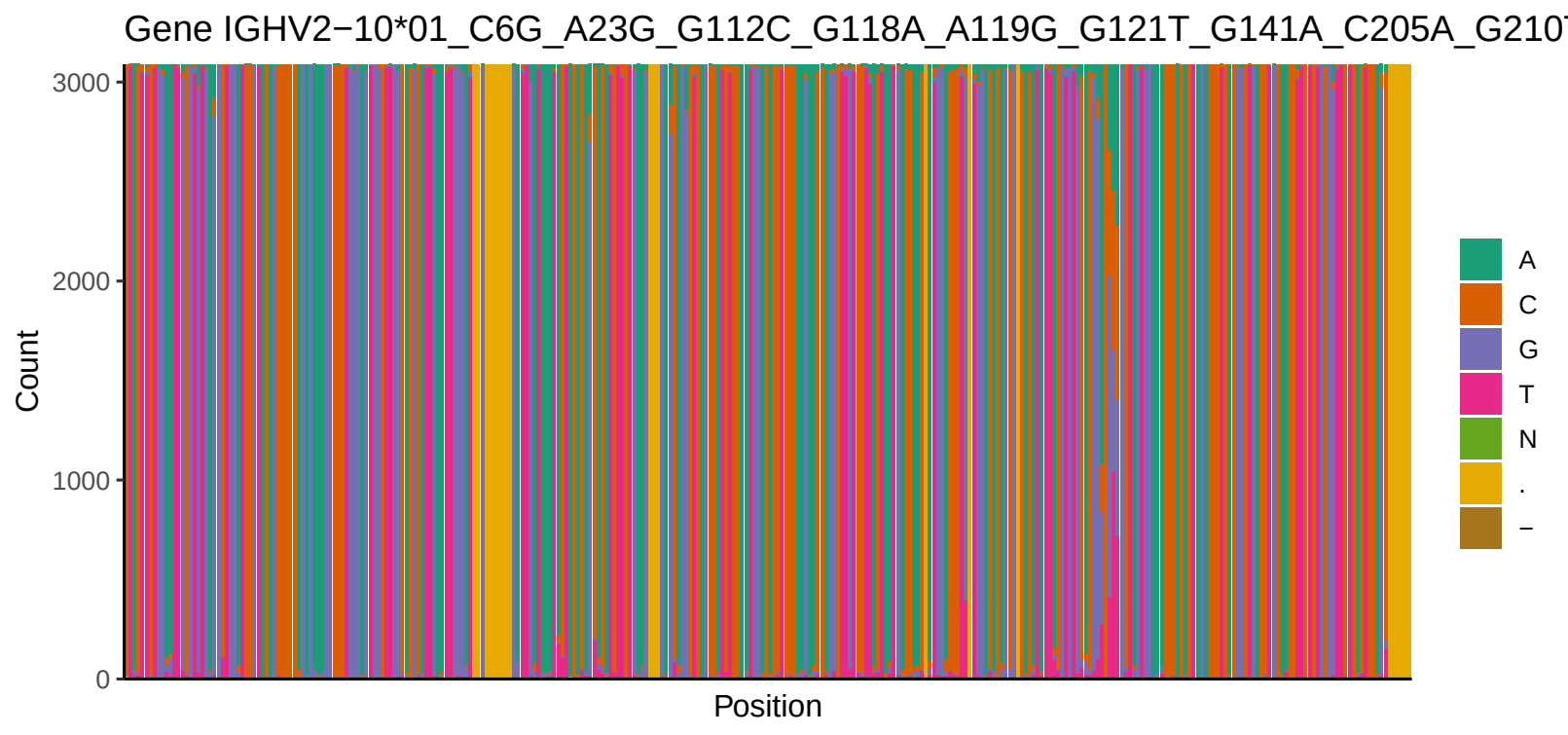

Gene IGHV3−28*02_C118T_G277A
Count
2000
1500
1000
500
0
Position
A
C
G
T
N
.
–

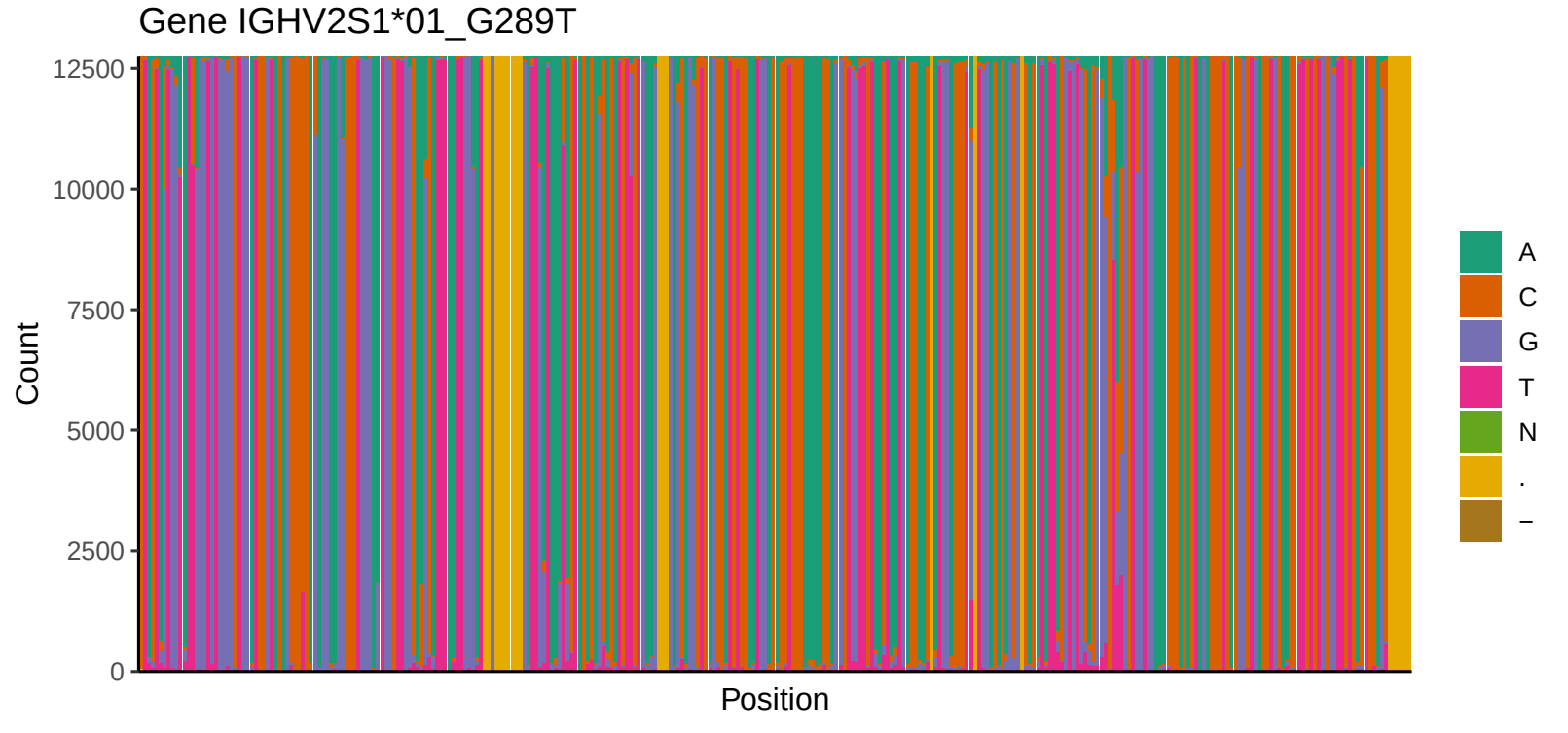

Gene IGHV4−93*02_C297G
Count
3000
2000
1000
0
Position
A
C
G
T
N
.
–

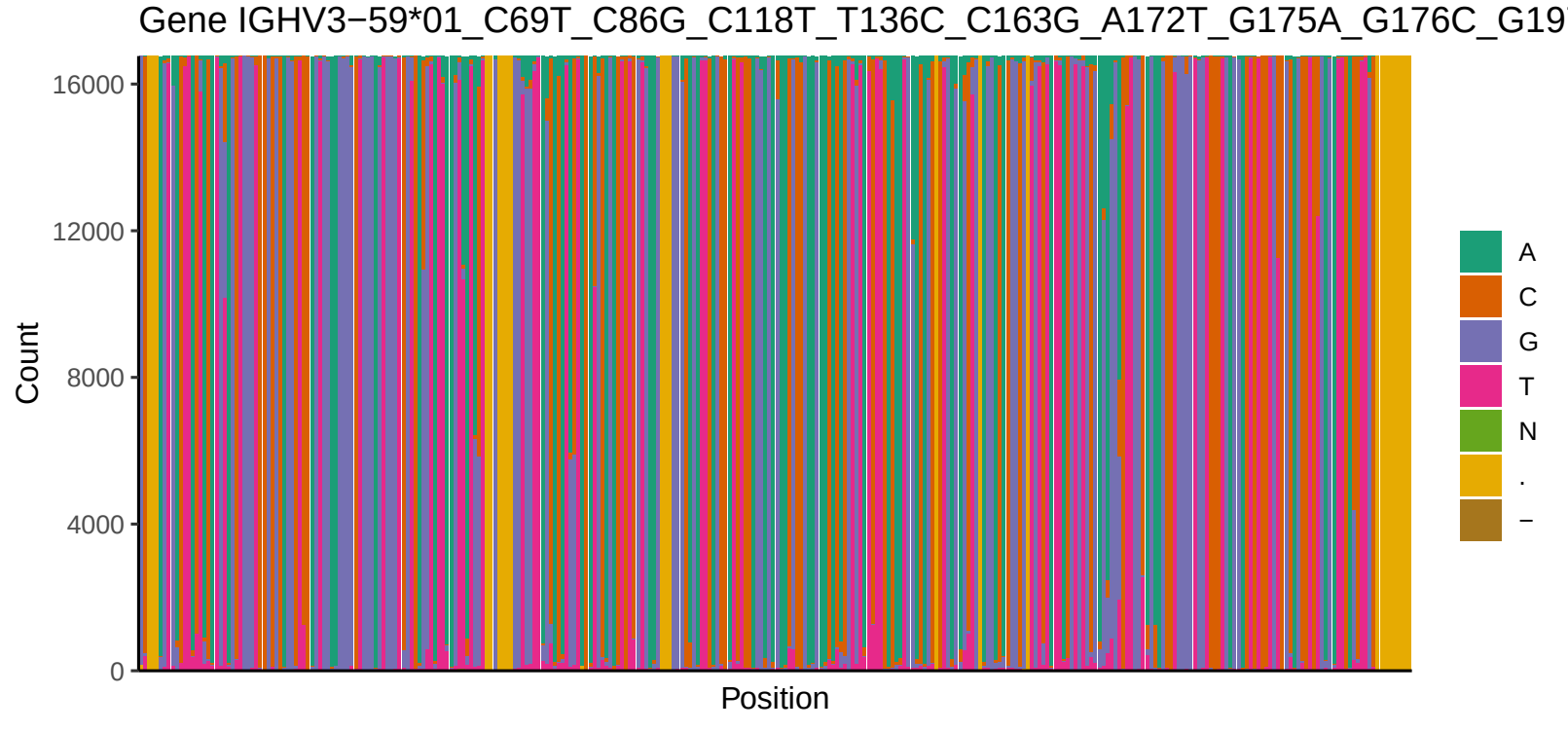
Gene IGHV4−127*01_T82G_A83G
Count
50000
40000
30000
20000
10000
0
Position
A
C
G
T
N
.
–

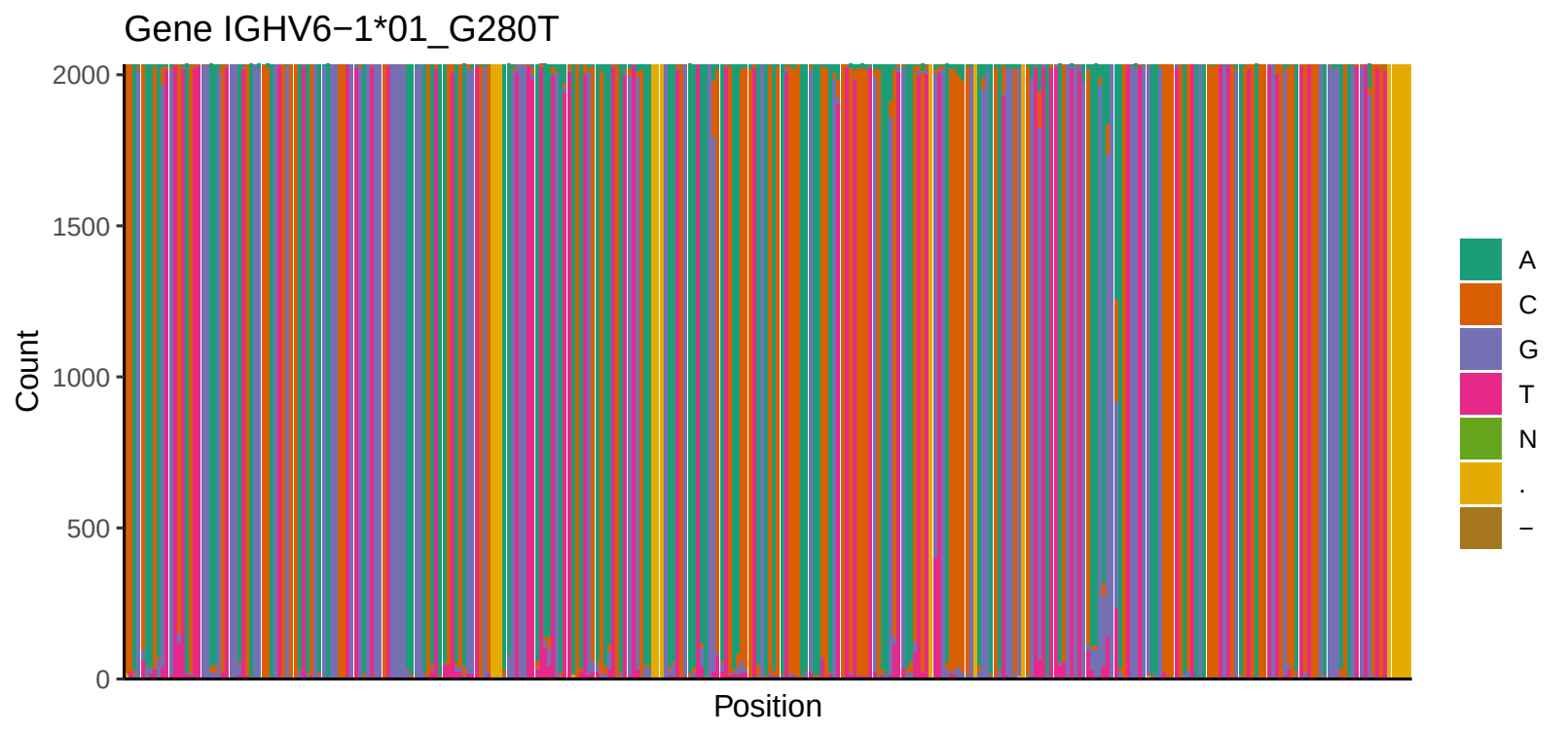

Gene IGHV4S2*01_G248C
Count
9000
6000
3000
0
Position
A
C
G
T
N
.
–

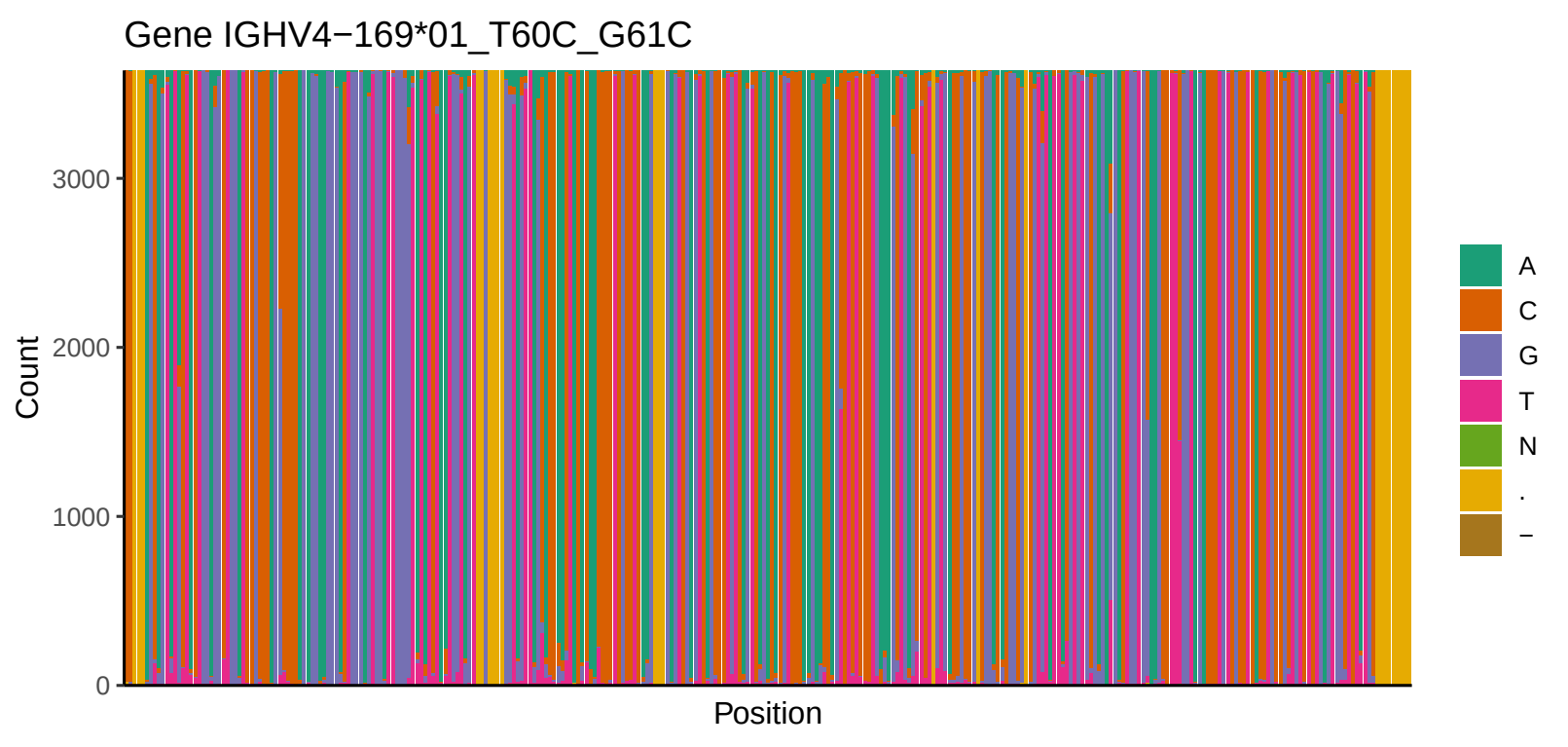

Gene IGHV7−114*01_T81A
Count
300
200
100
0
Position
A
C
G
T
N
.


Gene IGHV2−10*01_C6G_A23G_G112C_G118A_A119G_G121T_G141A_C205A_G210
3000
2000
1000
0
Count
Position
A
C
G
T
N
.
–


Gene IGHV2S1*01_G289T
12500
10000
7500
5000
2500
0
Count
Position
A
C
G
T
N
.
–


Gene IGHV3−59*01_C69T_C86G_C118T_T136C_C163G_A172T_G175A_G176C_G19
16000
12000
8000
4000
0
Count
Position
A
C
G
T
N
.
–


Gene IGHV6−1*01_G280T
Count
2000
1500
1000
500
0
Position
A
C
G
T
N
.
–


Gene IGHV4−169*01_T60C_G61C
Count
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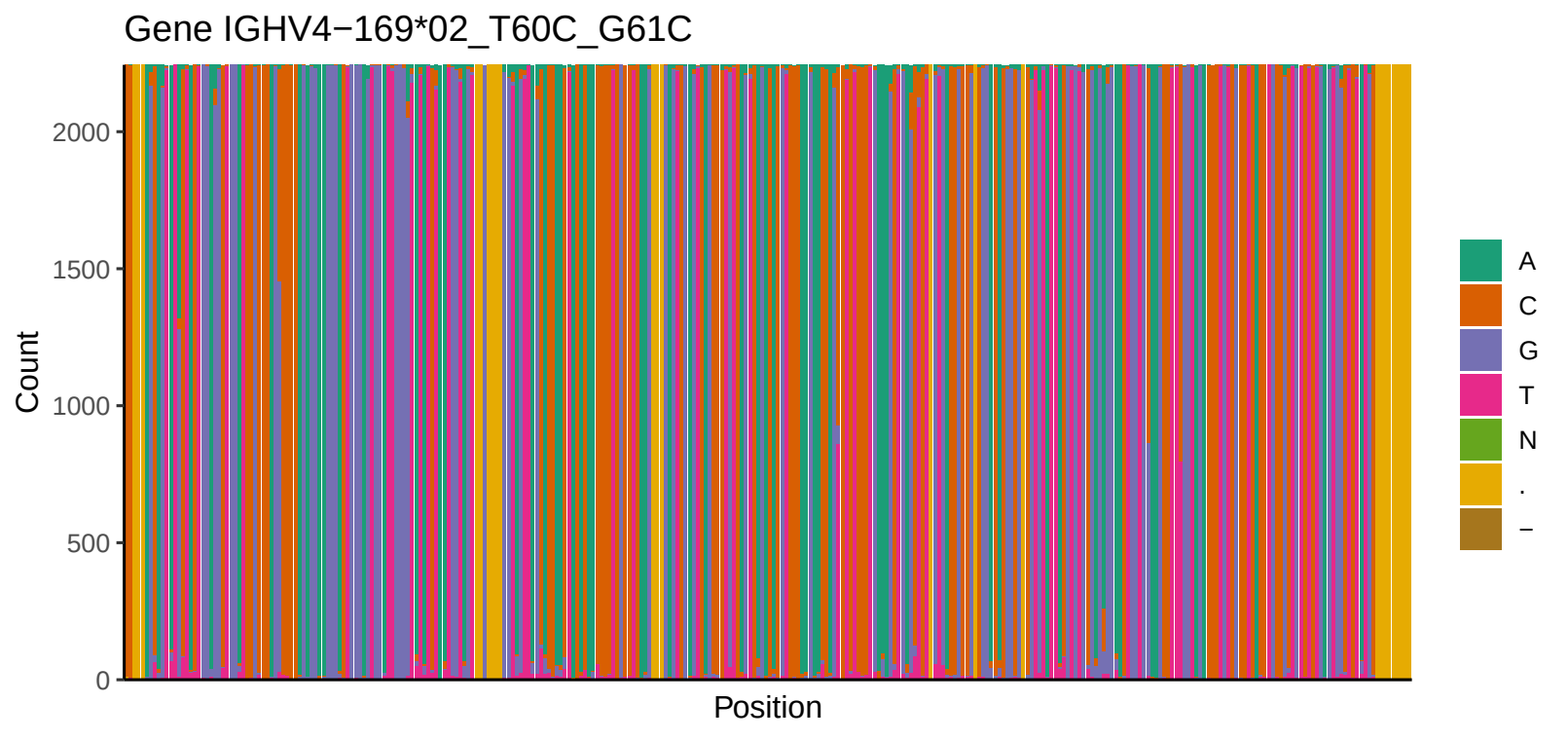
2000
1000
0
Position
A
C
G
T
N
.
–


Gene IGHV4−169*02_T60C_G61C
Count
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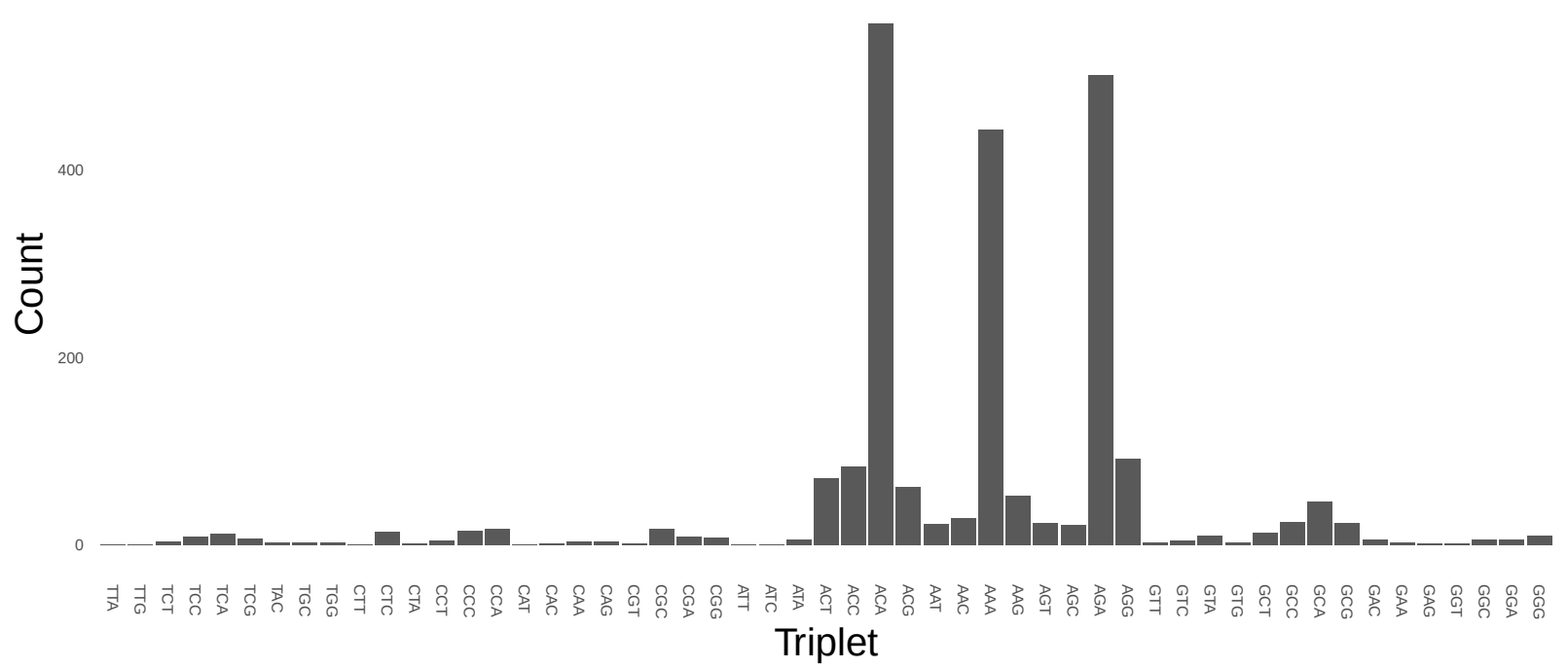
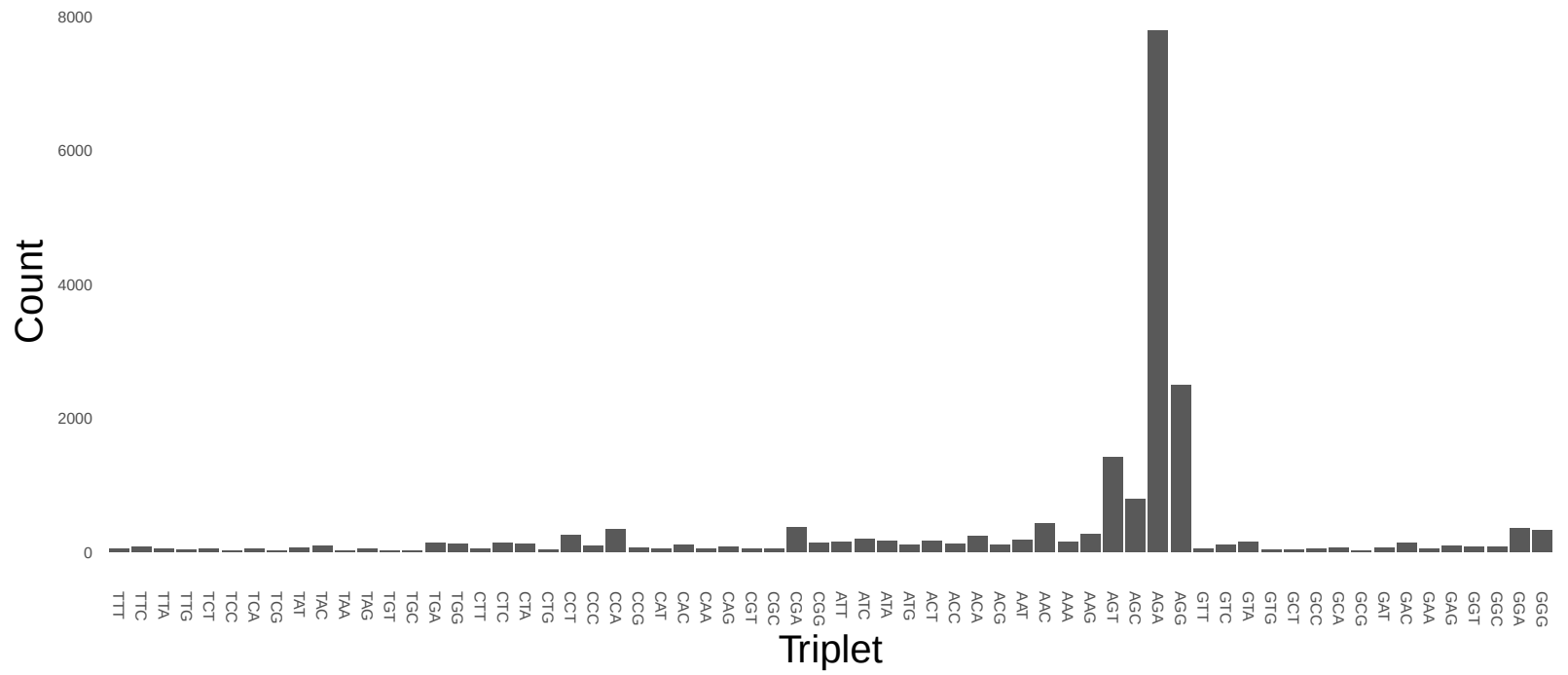
1500
1000
500
0
Position
A
C
G
T
N
.
–

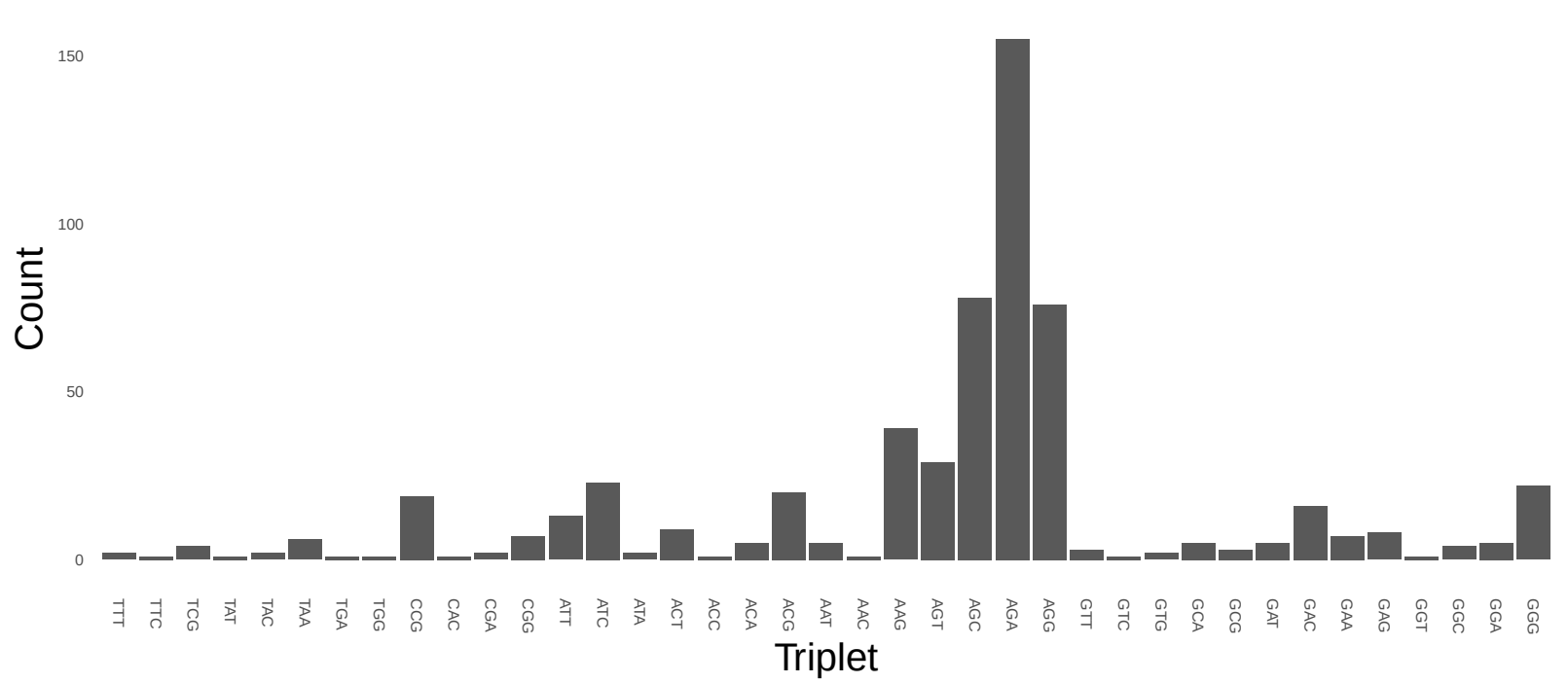
IGHV3−13*01_C301G− Final 3 nucleotides as a triplet



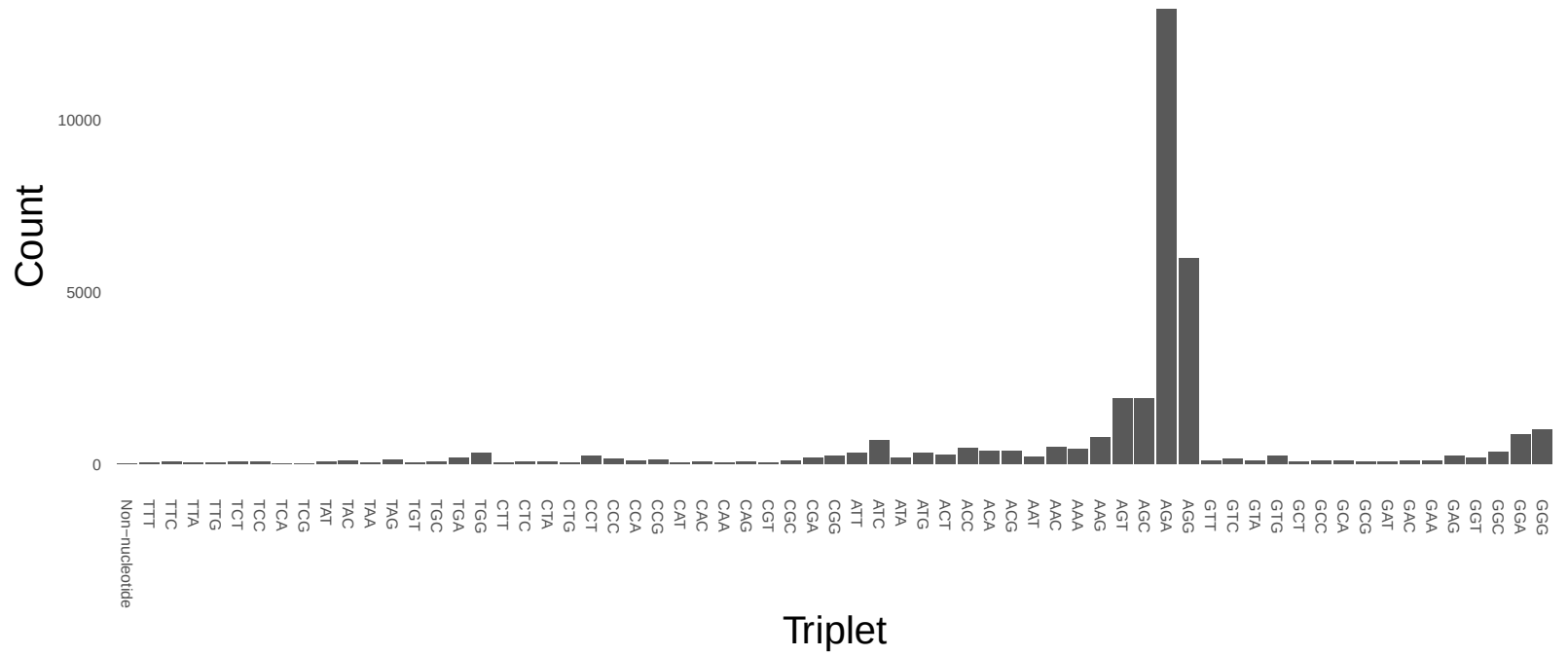
IGHV3−16*01_A51T_T78C_C90T_A119G− Final 3 nucleotides as a triplet



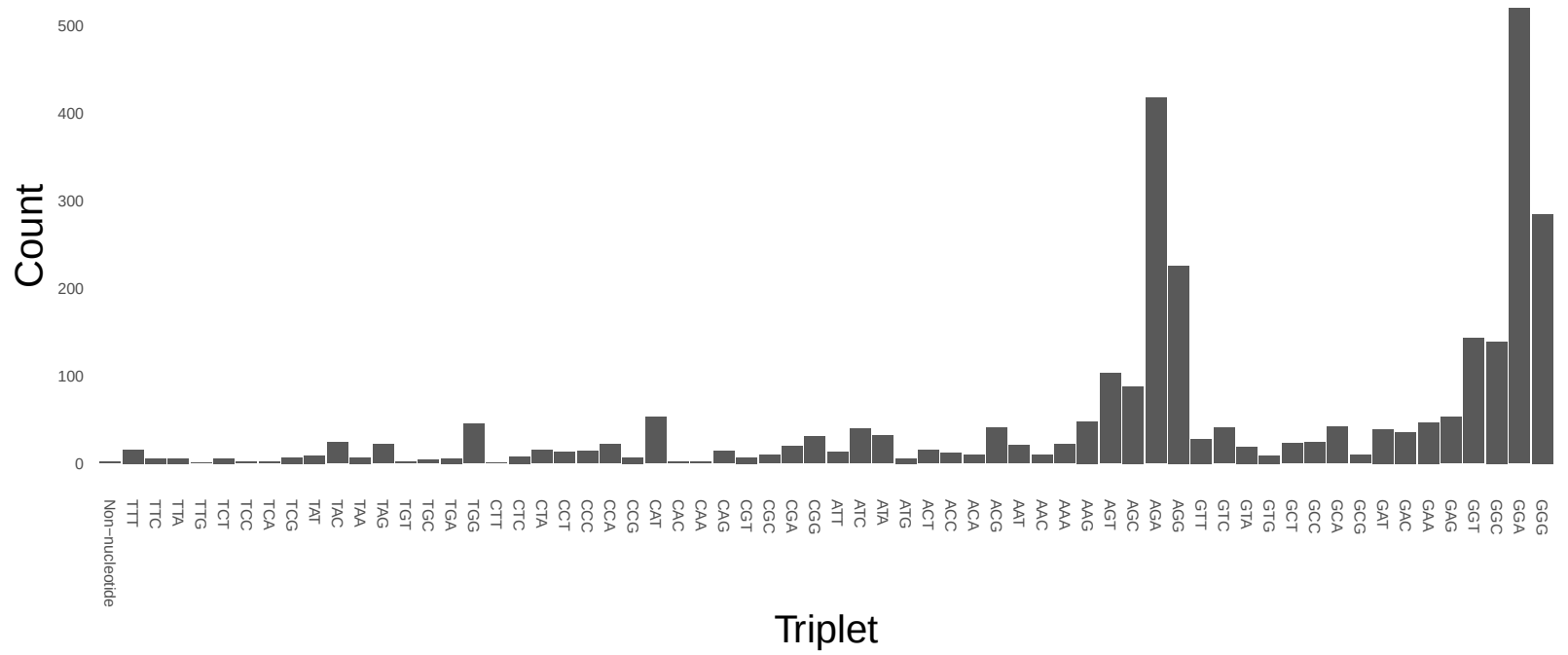
IGHV3−175*01_G48A_A88G_T127C_T224G_T279C− Final 3 nucleotides as a triplet



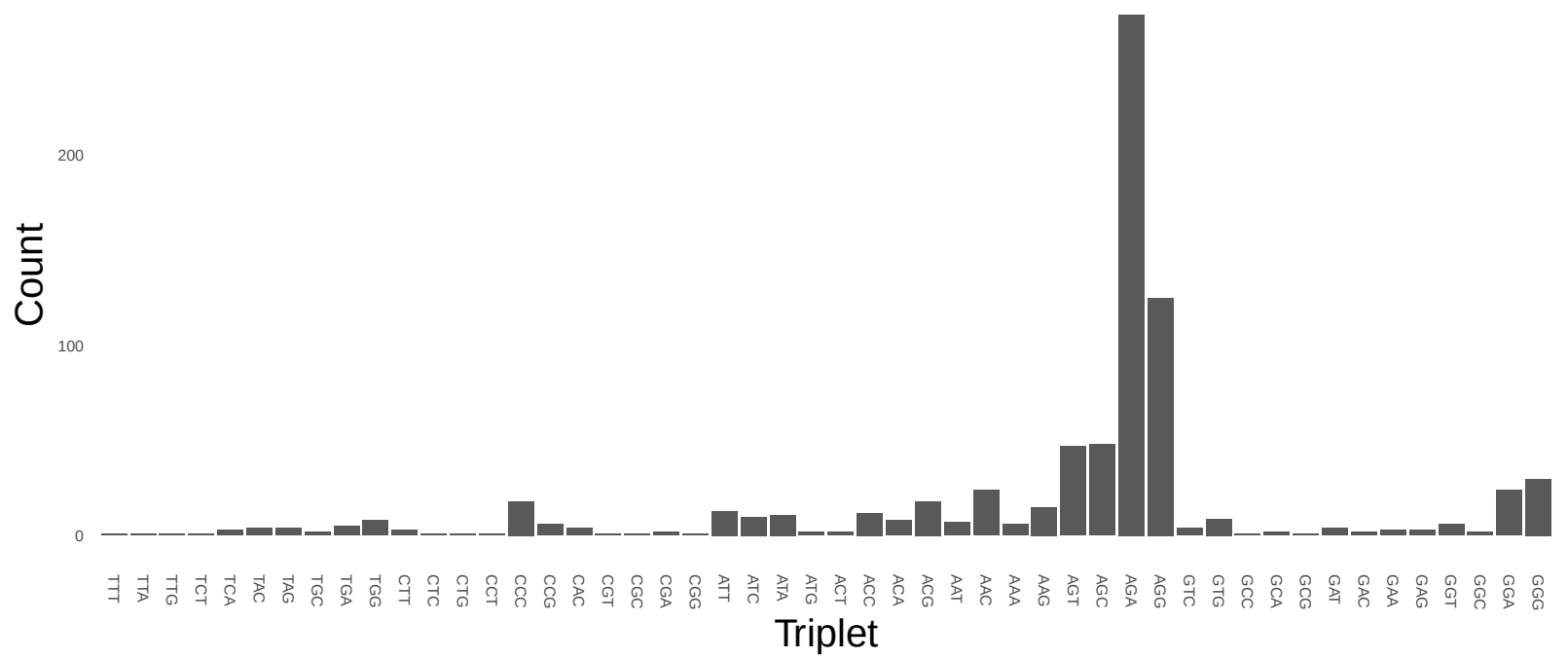
IGHV3S42*01_C27A_C38T_A39G_A40C_G113A_G114C_A118T_T120C_A133G_G173C_G216

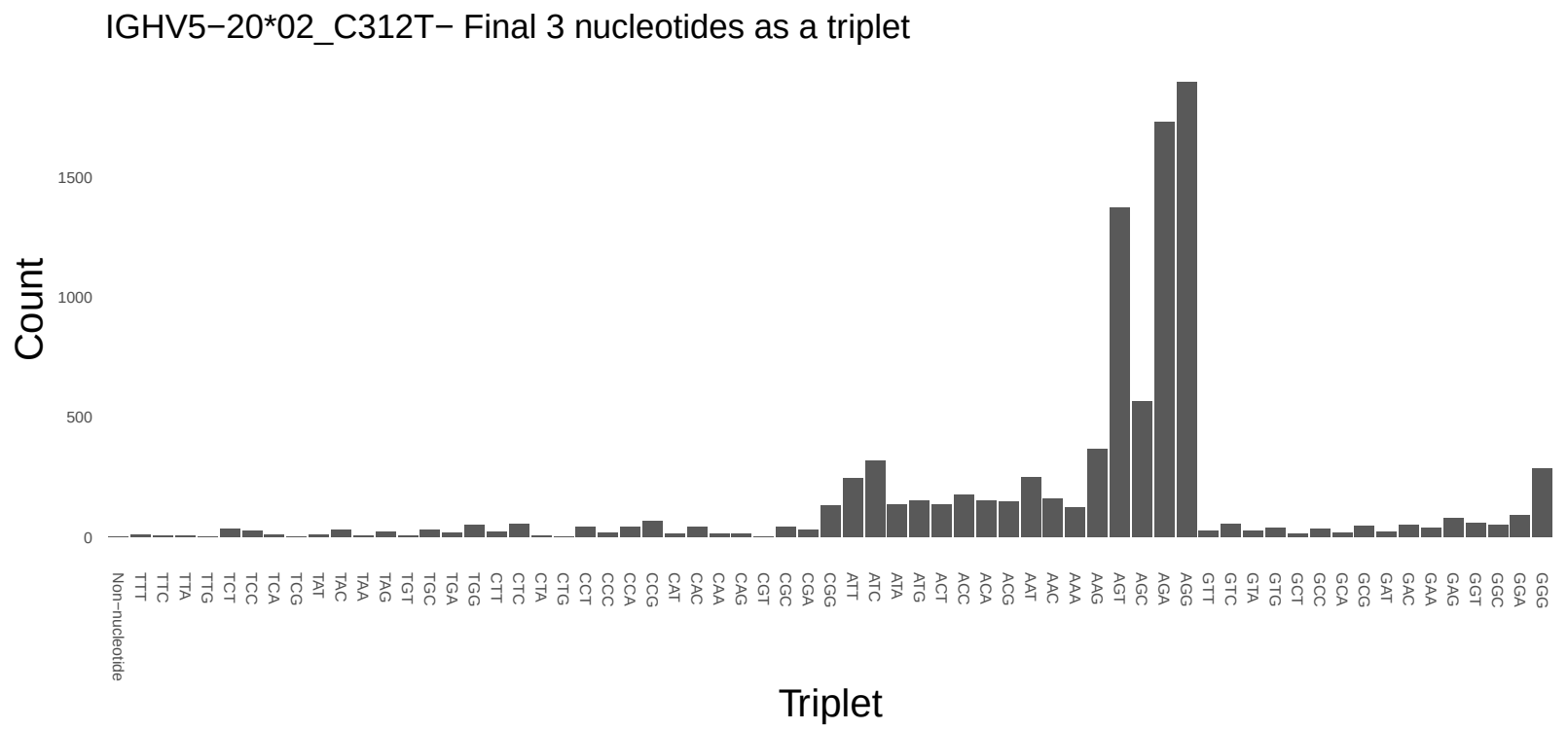


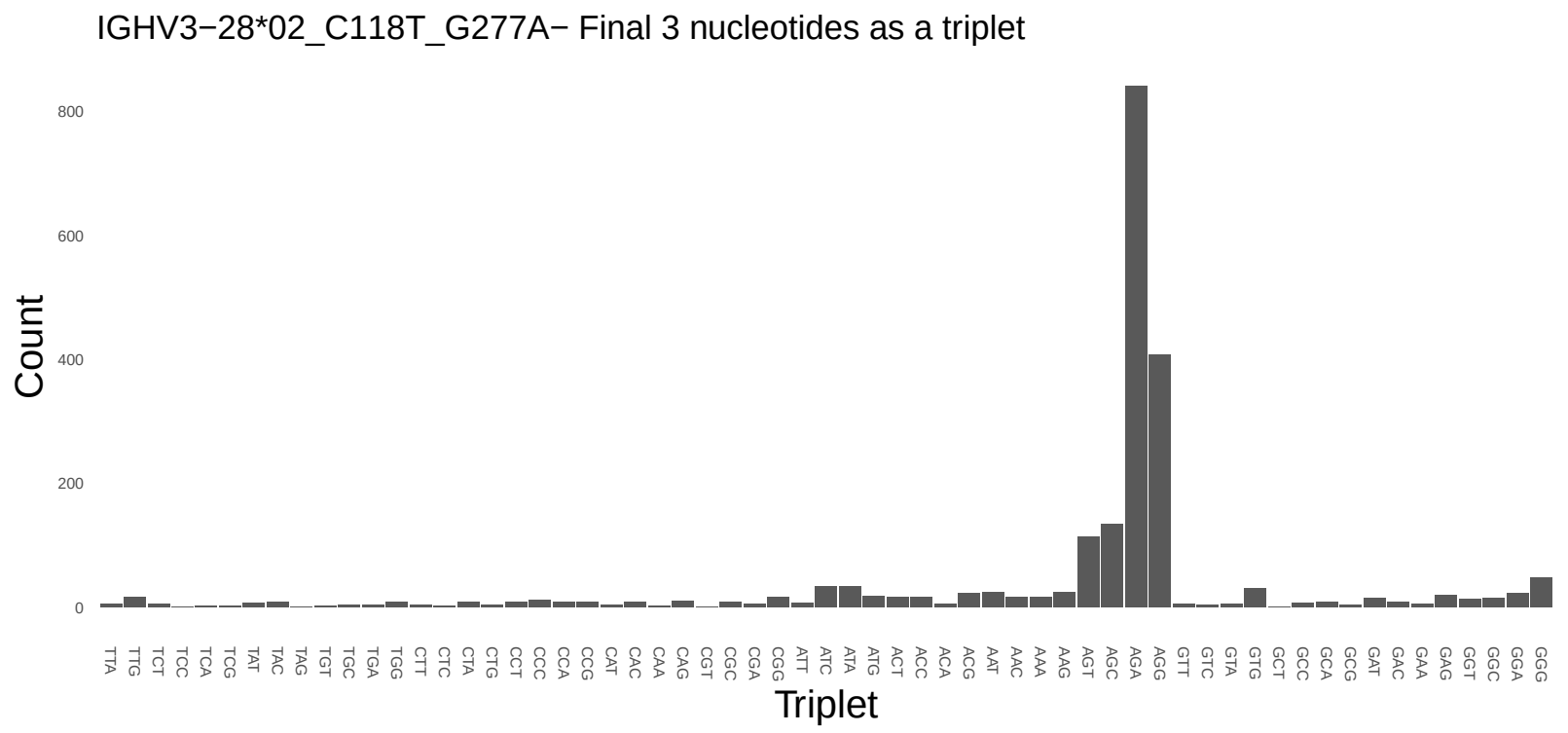
IGHV3−183*02_C164T_A172T_G193A− Final 3 nucleotides as a triplet

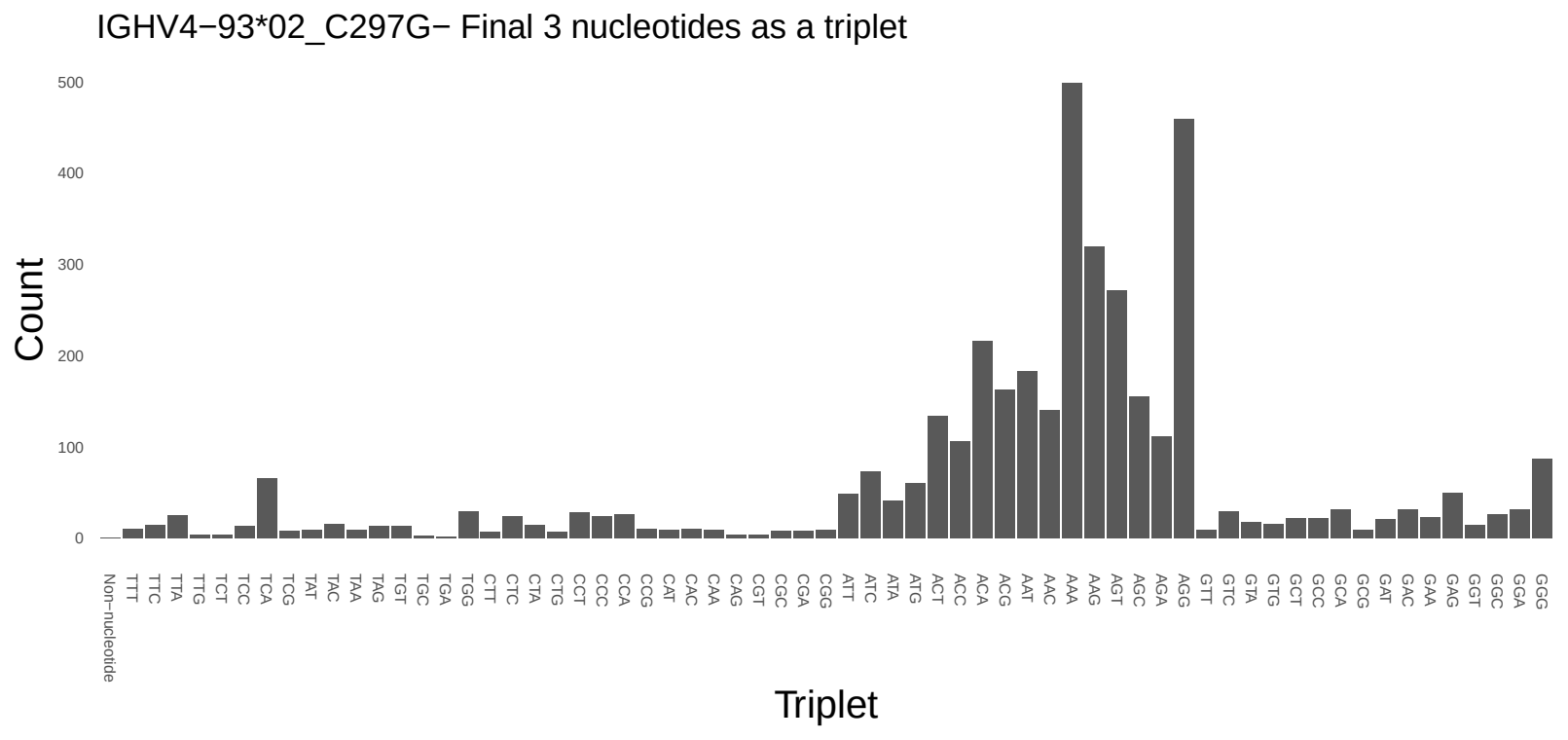


IGHV3−183*02_C164T_A172T_G193A_C210T− Final 3 nucleotides as a triplet

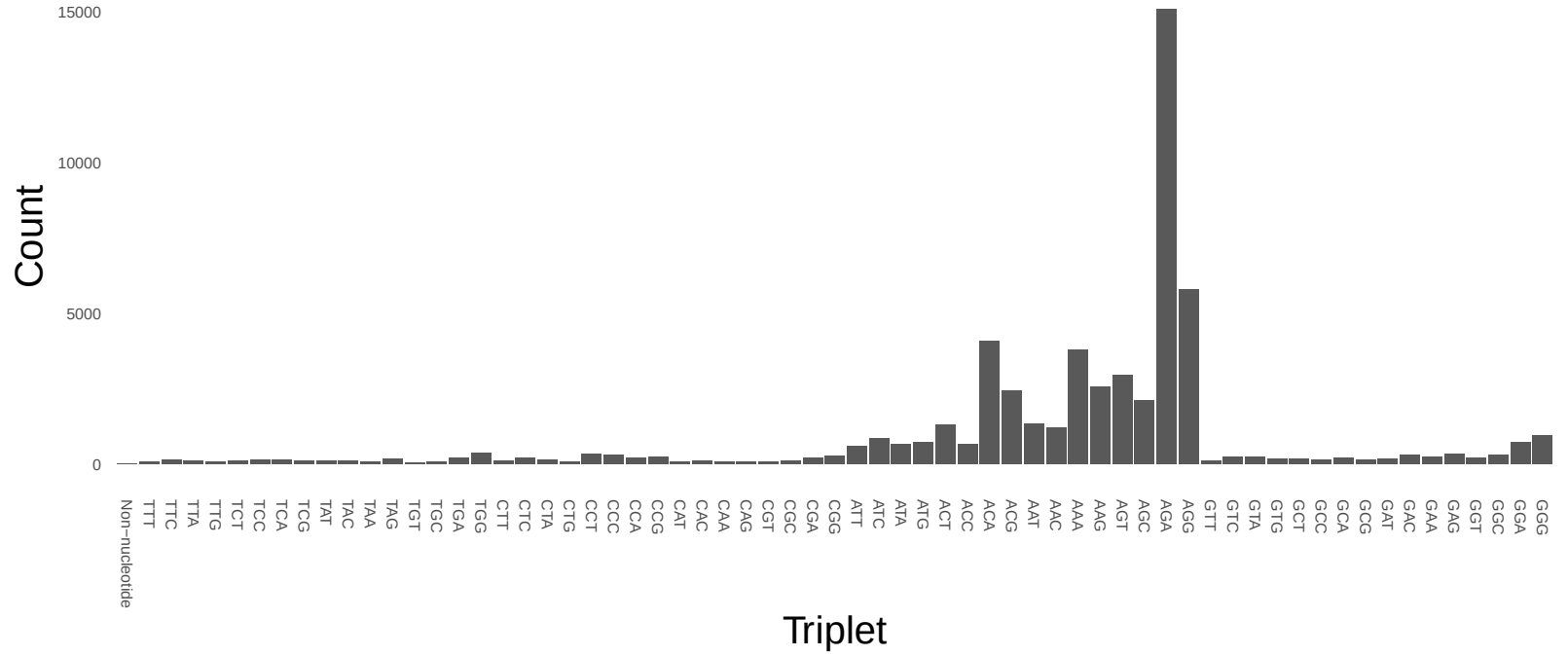



IGHV5−20*02_C312T− Final 3 nucleotides as a triplet
Count
1500
1000
500
0
Non−nucleotide
TTT TTC TTA TTG TCT TCC TCA TCG TAT TAC TAA TAG TGT TGC TGA TGG CTT CTC CTA CTG CCT CCC CCA CCG CAT CAC CAA CAG CGT CGC CGA CGG ATT ATC ATA ATG ACT ACC ACA ACG AAT AAC AAA AAG AGT AGC AGA AGG GTT GTC GTA GTG GCT GCC GCA GCG GAT GAC GAA GAG GGT GGC GGA GGG
Triplet

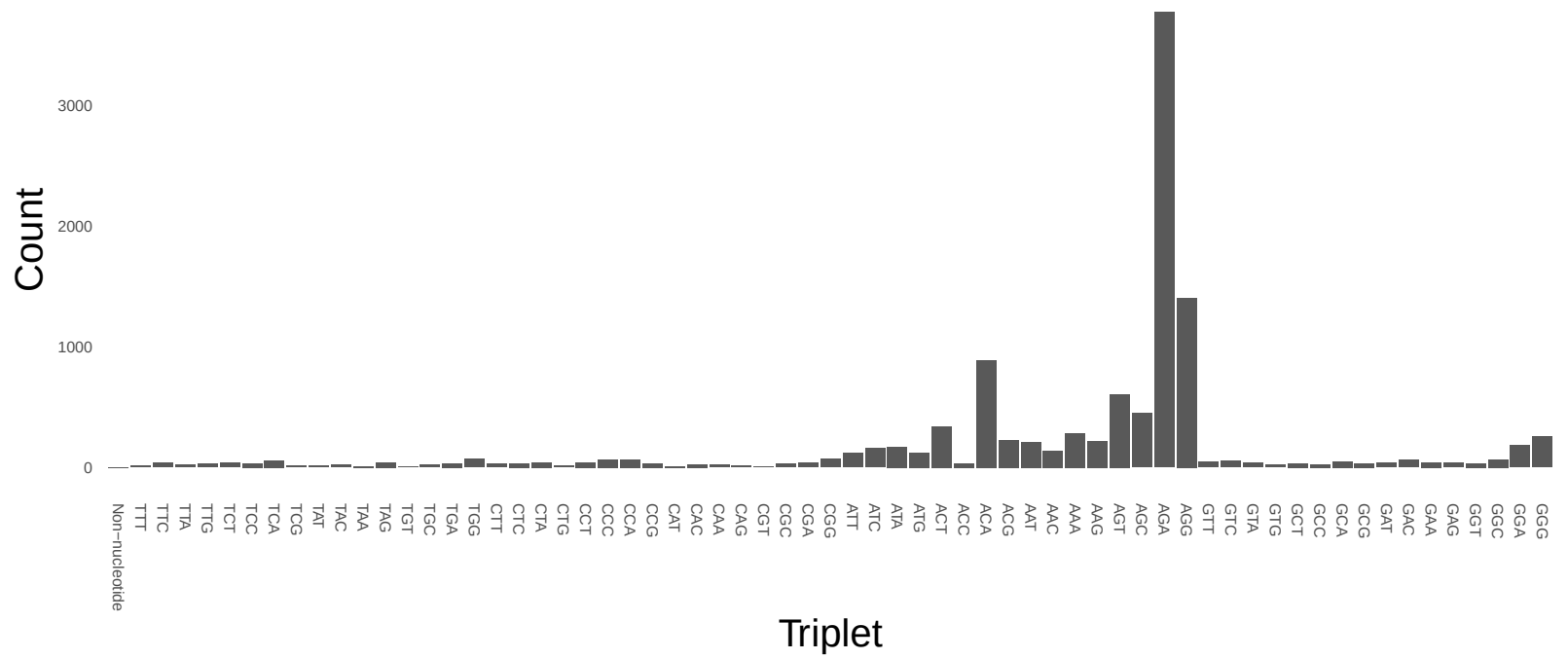

IGHV3−28*02_C118T_G277A− Final 3 nucleotides as a triplet
Count
800
600
400
200
0
TTA TTG TCT TCC TCA TCG TAT TAC TAG TGT TGC TGA TGG CTT CTC CTA CTG CCT CCC CCA CCG CAT CAC CAA CAG CGT CGC CGA CGG ATT ATC ATA ATG ACT ACC ACA ACG AAT AAC AAA AAG AGT AGC AGA AGG GTT GTC GTA GTG GCT GCC GCA GCG GAT GAC GAA GAG GGT GGC GGA GGG
Triplet


IGHV4−93*02_C297G− Final 3 nucleotides as a triplet
Count
500
400
300
200
100
0
Non−nucleotide
TTT TTC TTA TTG TCT TCC TCA TCG TAT TAC TAA TAG TGT TGC TGA TGG CTT CTC CTA CTG CCT CCC CCA CCG CAT CAC CAA CAG CGT CGC CGA CGG ATT ATC ATA ATG ACT ACC ACA ACG AAT AAC AAA AAG AGT AGC AGA AGG GTT GTC GTA GTG GCT GCC GCA GCG GAT GAC GAA GAG GGT GGC GGA GGG
Triplet

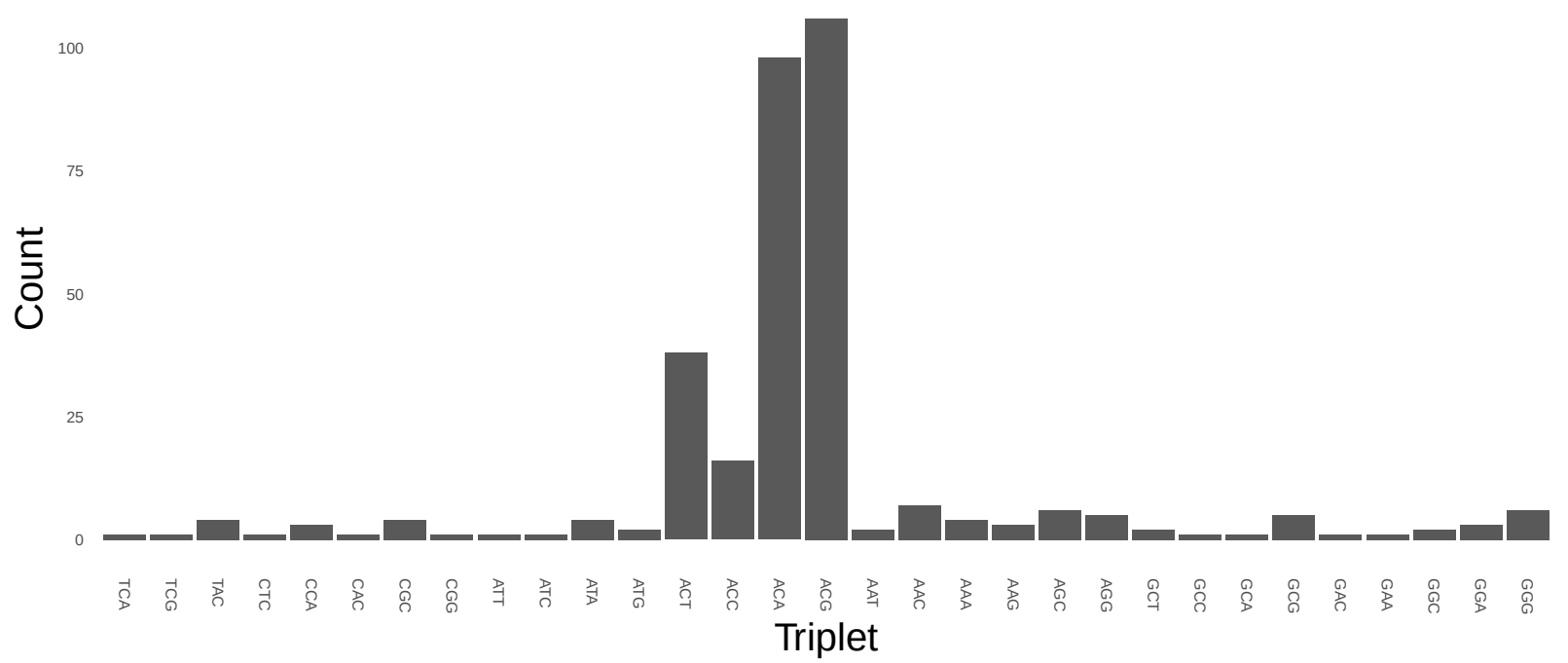
IGHV4−127*01_T82G_A83G− Final 3 nucleotides as a triplet

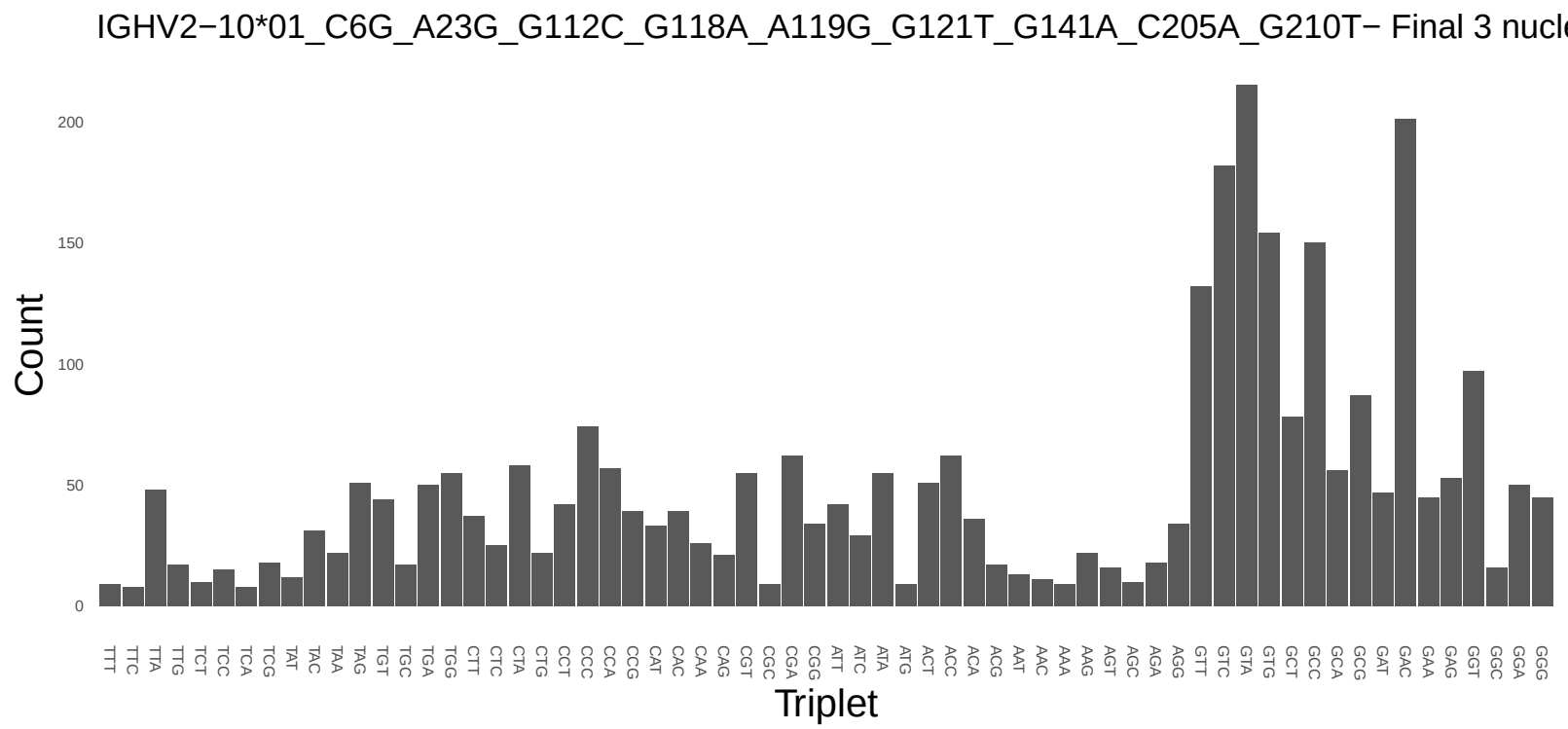


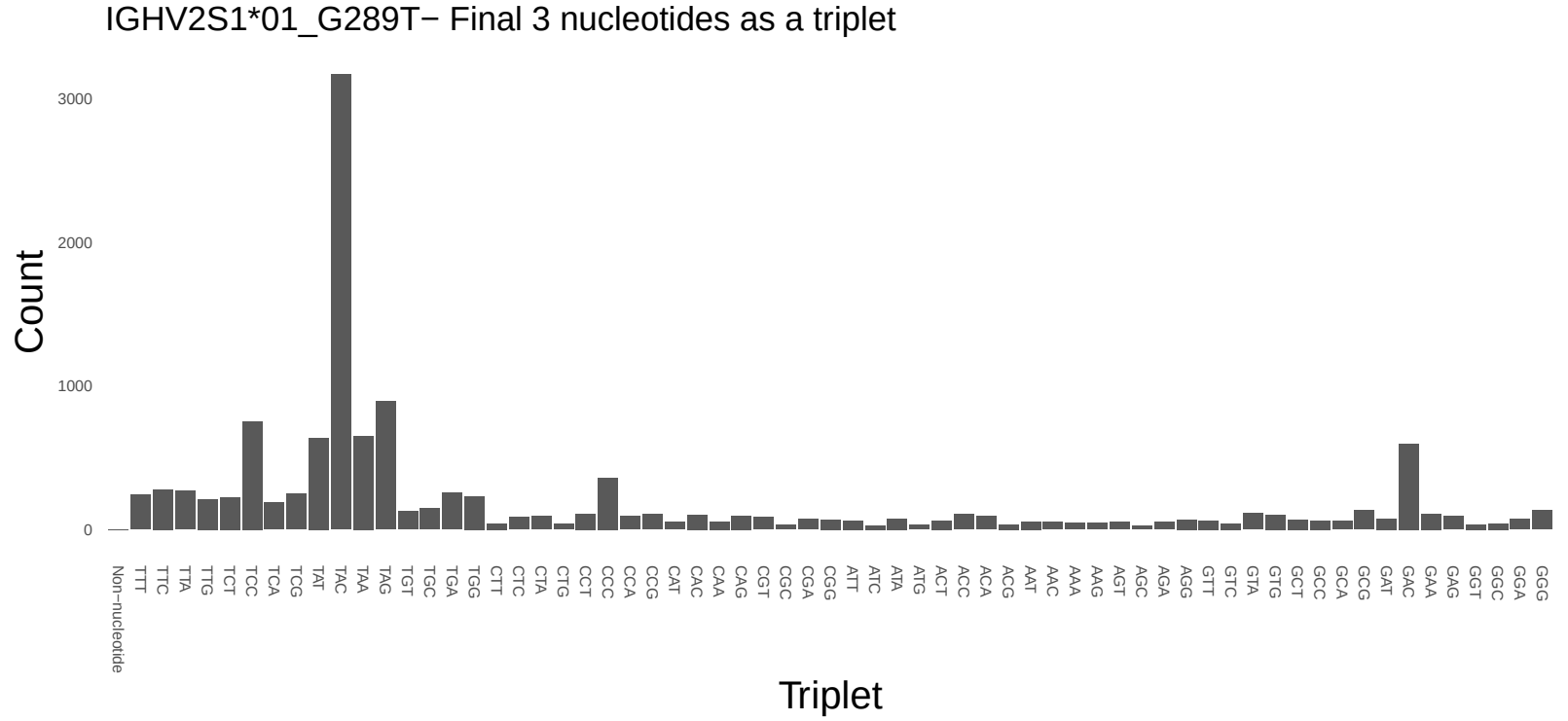
IGHV4S2*01_G248C− Final 3 nucleotides as a triplet

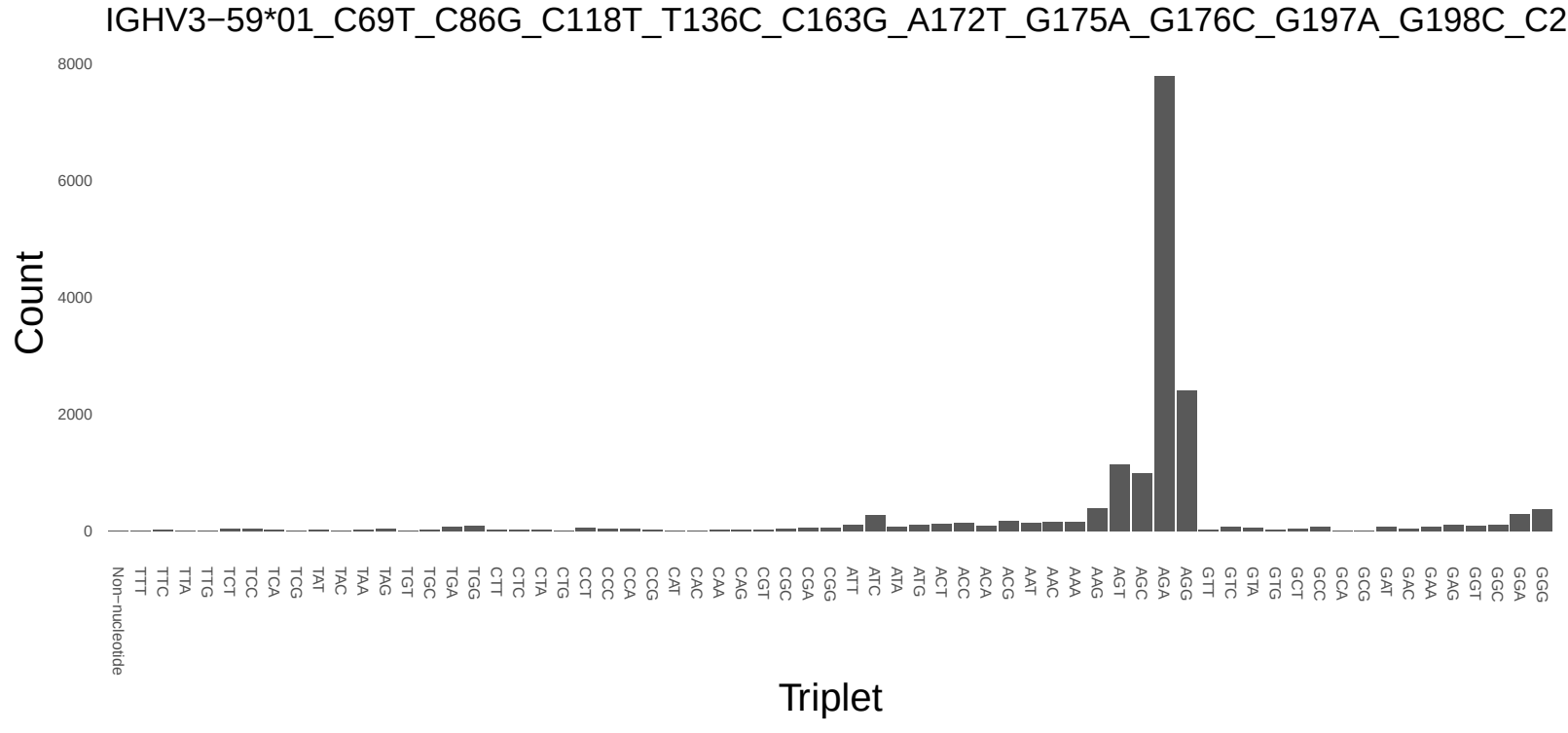


IGHV7−114*01_T81A− Final 3 nucleotides as a triplet

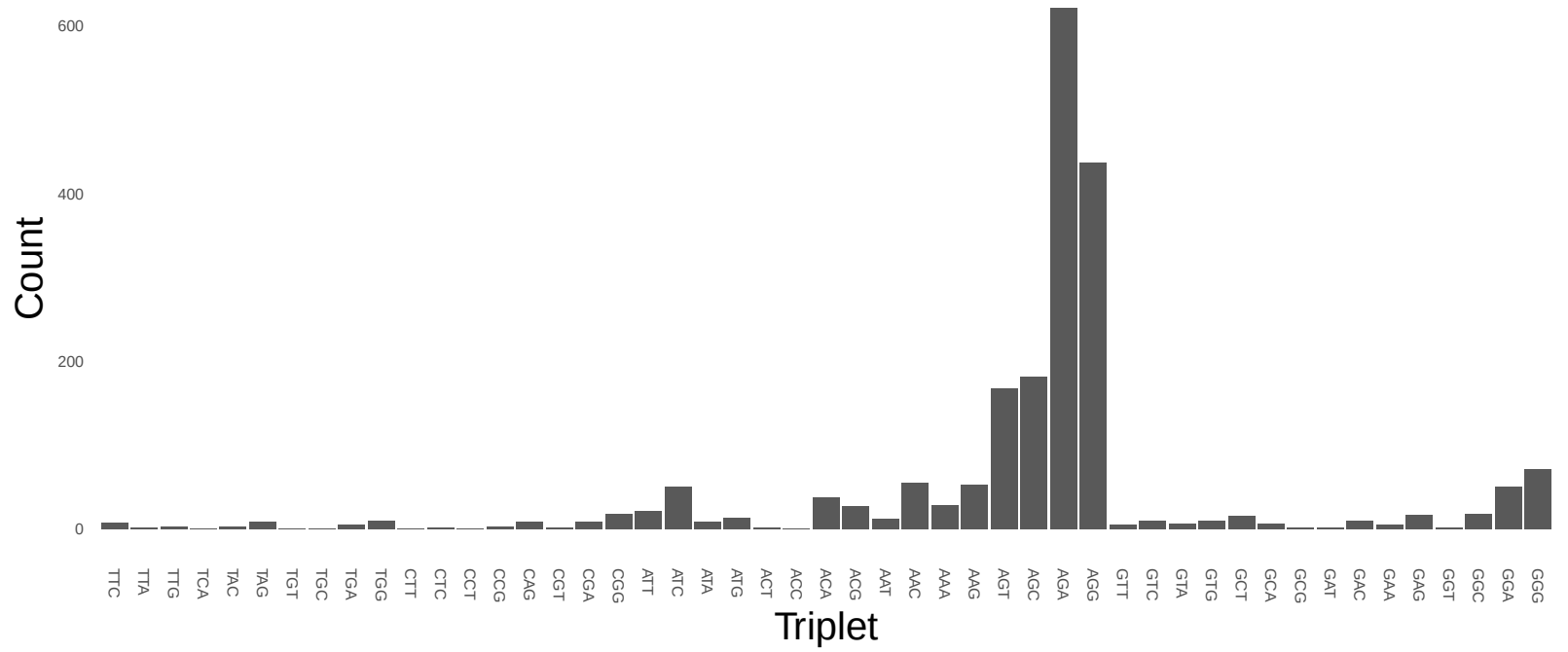



IGHV2−10*01_C6G_A23G_G112C_G118A_A119G_G121T_G141A_C205A_G210T− Final 3 nucl
Count
0
50
100
150
200
TTT TTC TTA TTG TCT TCC TCA TCG TAT TAC TAA TAG TGT TGC TGA TGG CTT CTC CTA CTG CCT CCC CCA CCG CAT CAC CAA CAG CGT CGC CGA CGG ATT ATC ATA ACT ACC ACA ACG AAT AAC AAA AAG AGT AGC AGA AGG GTT GTC GTA GTG GCT GCC GCA GCG GAT GAC GAA GAG GGT GGC GGA GGG
Triplet

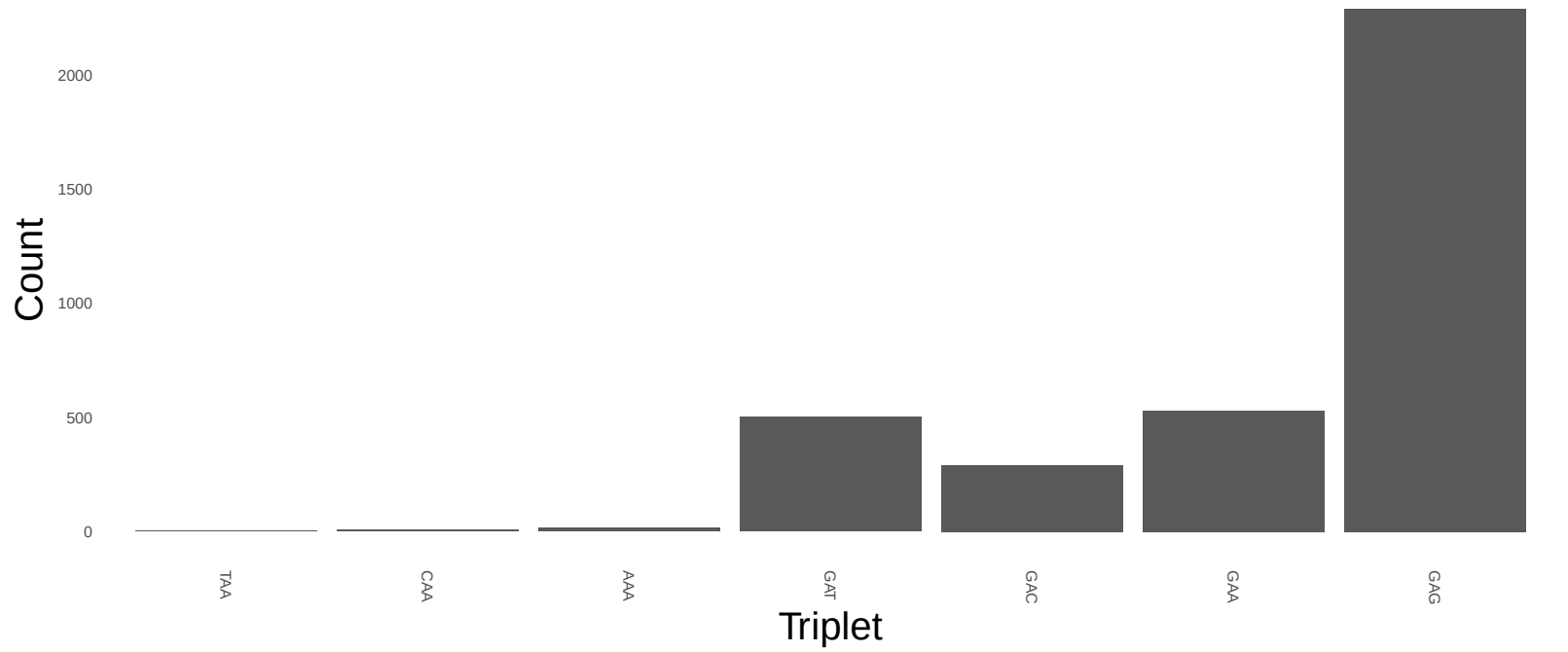

IGHV2S1*01_G289T− Final 3 nucleotides as a triplet
Count
0
1000
2000
3000
Non−nucleotide
TTT TTC TTA TTG TCT TCC TCA TCG TAT TAC TAA TAG TGT TGC TGA TGG CTT CTC CTA CTG CCT CCC CCA CCG CAT CAC CAA CAG CGT CGC CGA CGG ATT ATC ATA ATG ACT ACC ACA ACG AAT AAC AAA AAG AGT AGC AGA AGG GTT GTC GTA GTG GCT GCC GCA GCG GAT GAC GAA GAG GGT GGC GGA GGG
Triplet


IGHV3−59*01_C69T_C86G_C118T_T136C_C163G_A172T_G175A_G176C_G197A_G198C_C2
Count
0
2000
4000
6000
8000
Non−nucleotide
TTT TTC TTA TTG TCT TCC TCA TCG TAT TAC TAA TAG TGT TGC TGA TGG CTT CTC CTA CTG CCT CCC CCA CCG CAT CAC CAA CAG CGT CGC CGA CGG ATT ATC ATA ATG ACT ACC ACA ACG AAT AAC AAA AAG AGT AGC AGA AGG GTT GTC GTA GTG GCT GCC GCA GCG GAT GAC GAA GAG GGT GGC GGA GGG
Triplet

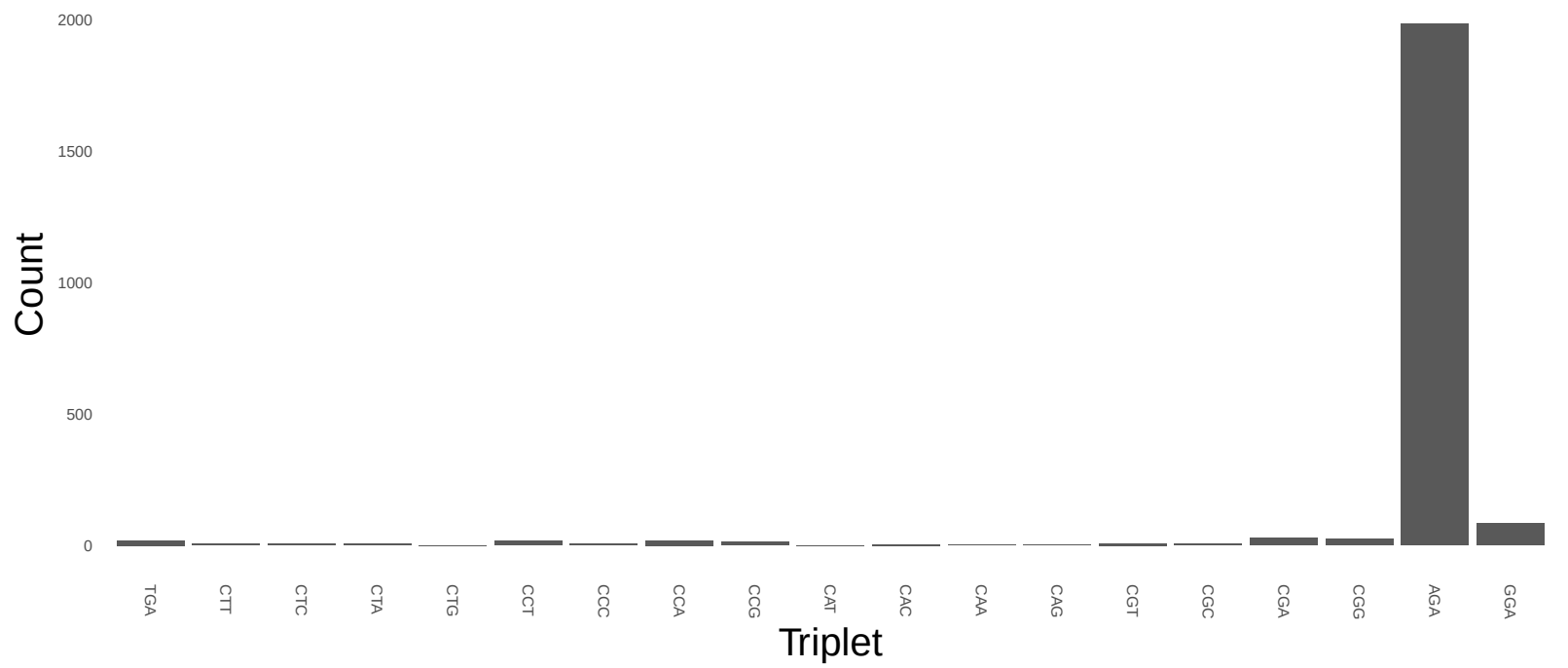
IGHV6−1*01_G280T− Final 3 nucleotides as a triplet



IGHV4−169*01_T60C_G61C− Final 3 nucleotides as a triplet

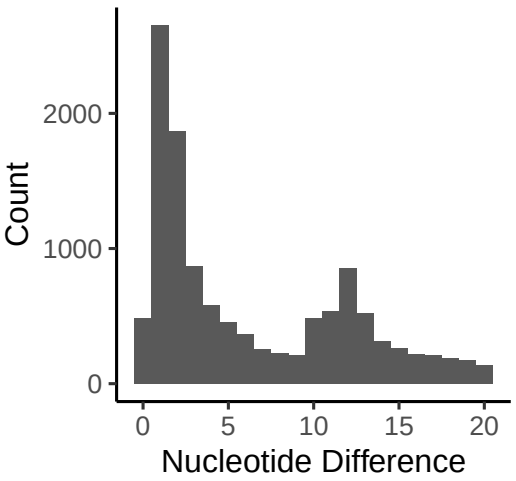


IGHV4−169*02_T60C_G61C− Final 3 nucleotides as a triplet



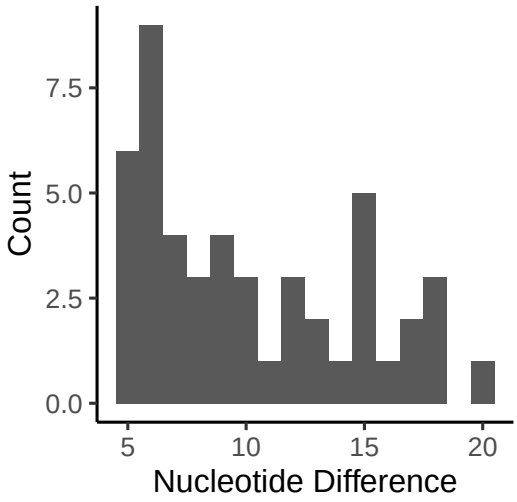
IGHV2S1*01_G289T

12743 sequences assigned
485 (3.8%) exact matches, in which:
483 unique CDR3
5 unique J



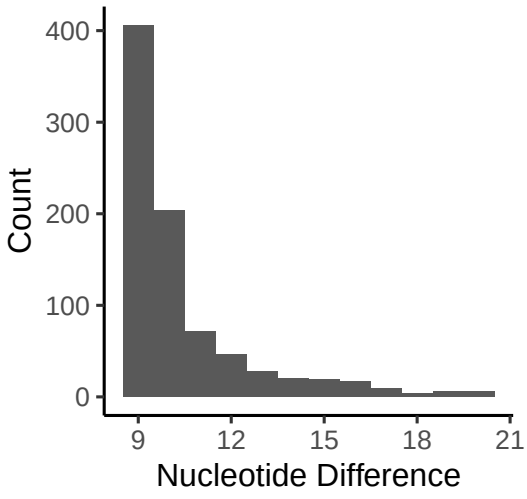
IGHV3S43*01

72 sequences assigned
No exact matches.



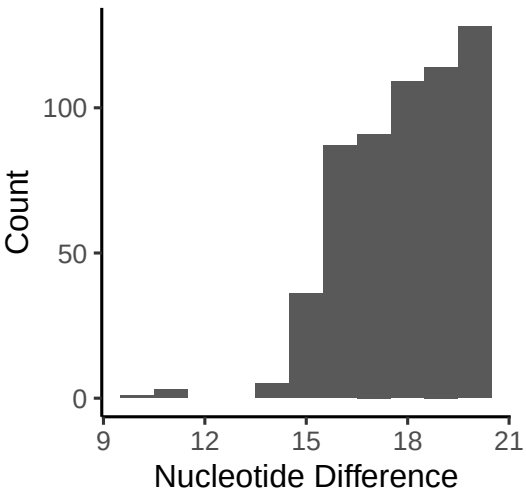
IGHV1−151*01

851 sequences assigned
No exact matches.



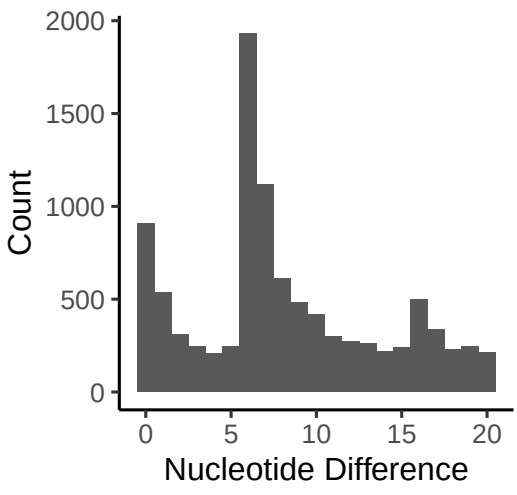
IGHV3S3*01

3706 sequences assigned
No exact matches.



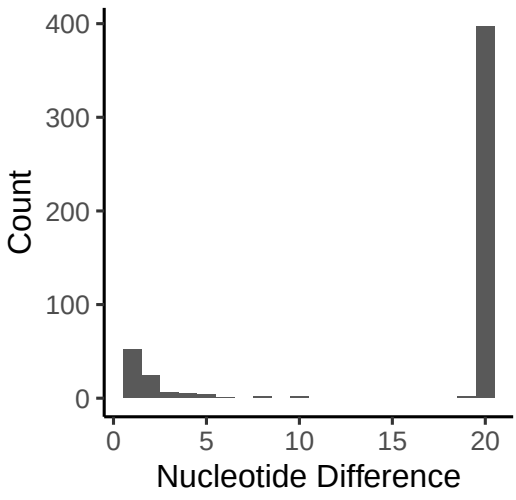
IGHV4S2*01_G248C

11201 sequences assigned
907 (8.1%) exact matches, in which:
875 unique CDR3
5 unique J



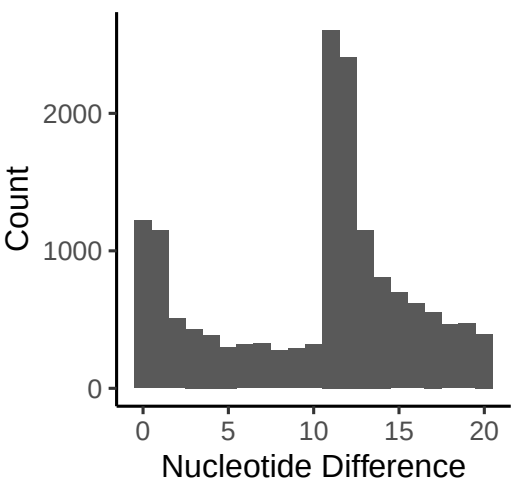
IGHV1−156D*01

1037 sequences assigned
No exact matches.



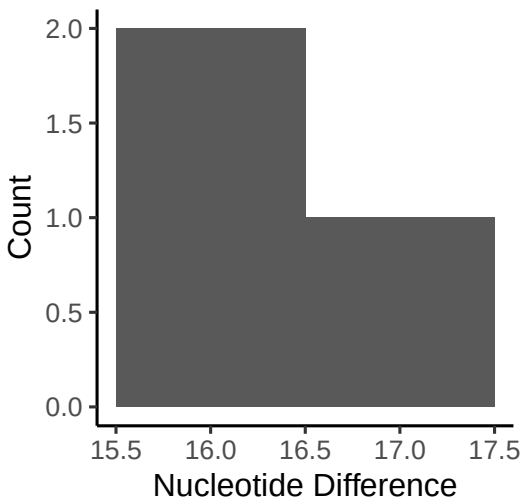
IGHV3S42*01_C27A_C3

34719 sequences assigned
1221 (3.5%) exact matches, in which:
1117 unique CDR3
5 unique J



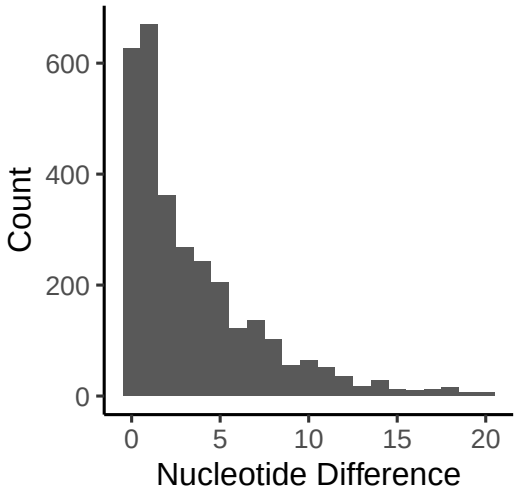
IGHV1−138*01

3 sequences assigned
No exact matches.



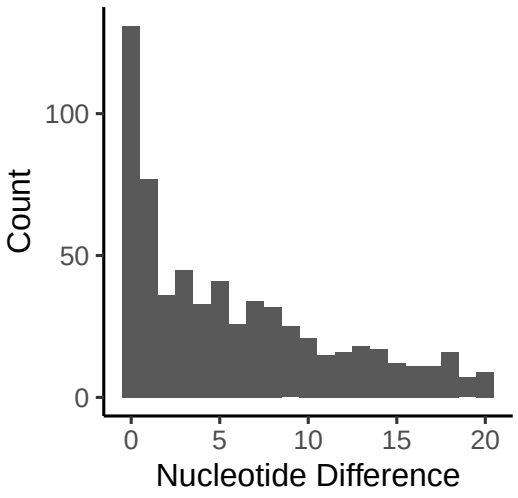
IGHV2−10*01_C6G_A23

3090 sequences assigned
627 (20.3%) exact matches, in which:
577 unique CDR3
5 unique J



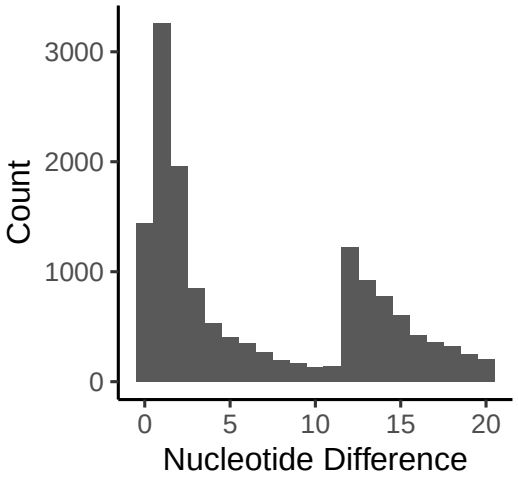
IGHV3−13*01_C301G

2267 sequences assigned
131 (5.8%) exact matches, in which:
120 unique CDR3
5 unique J



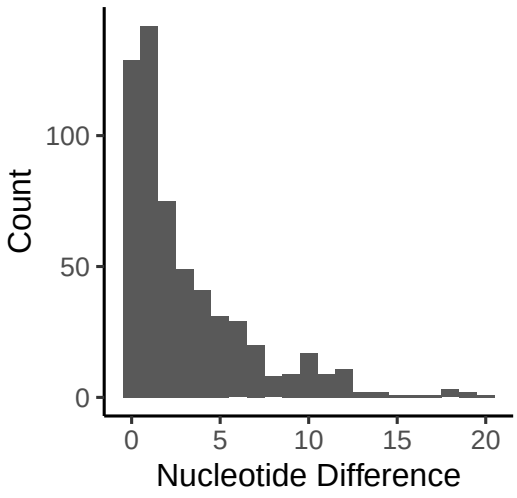
IGHV3−59*01_C69T_C8

16764 sequences assigned
1444 (8.6%) exact matches, in which:
1338 unique CDR3
5 unique J



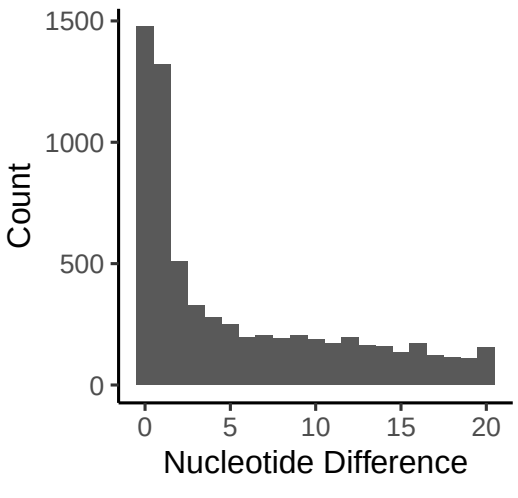
IGHV3−175*01_G48A_A8

585 sequences assigned
129 (22.1%) exact matches, in which:
115 unique CDR3
5 unique J



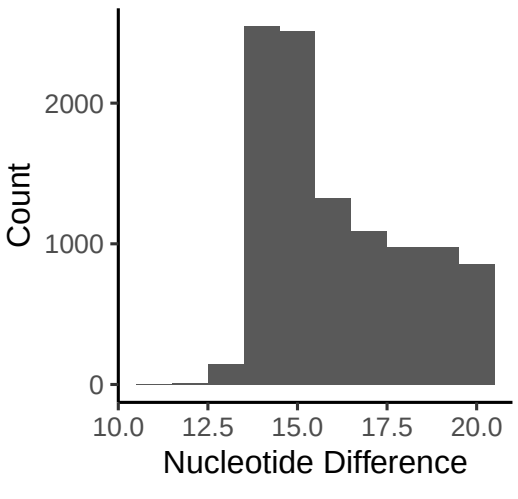
IGHV3−16*01_A51T_T7

19452 sequences assigned
1476 (7.6%) exact matches, in which:
1329 unique CDR3
5 unique J



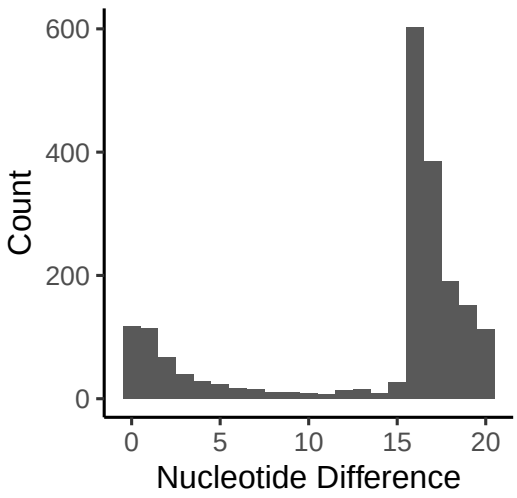
IGHV3−108*01

16279 sequences assigned
No exact matches.



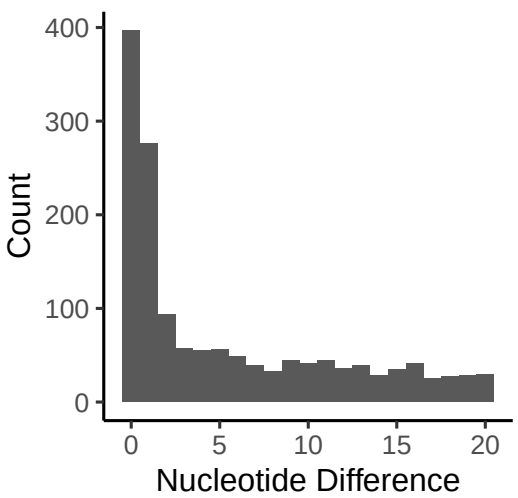
IGHV3−183*02_C164T_A

2949 sequences assigned
118 (4%) exact matches, in which:
109 unique CDR3
5 unique J



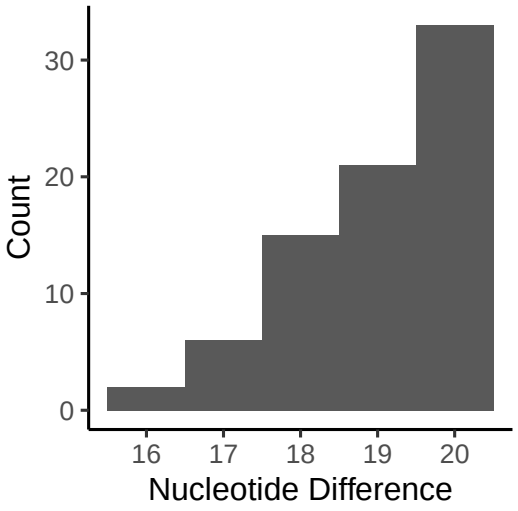
IGHV3−28*02_C118T_G2

2127 sequences assigned
397 (18.7%) exact matches, in which:
365 unique CDR3
5 unique J



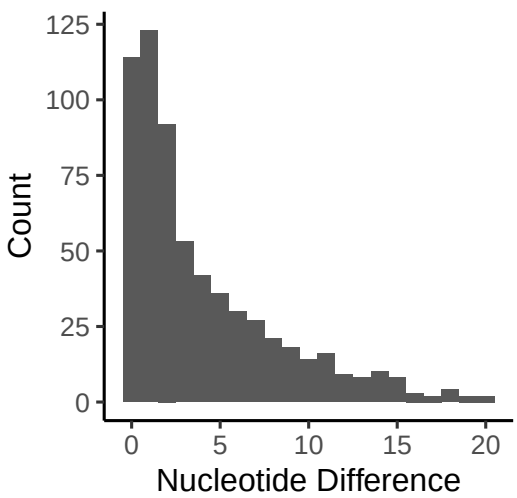
IGHV3−137*01

4933 sequences assigned
No exact matches.



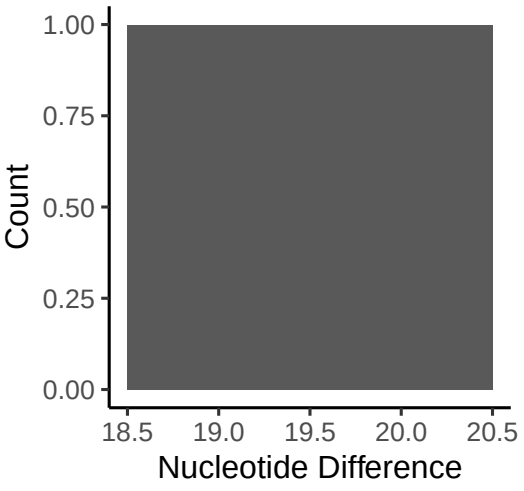
IGHV3−183*02_C164T_A

782 sequences assigned
114 (14.6%) exact matches, in which:
106 unique CDR3
4 unique J



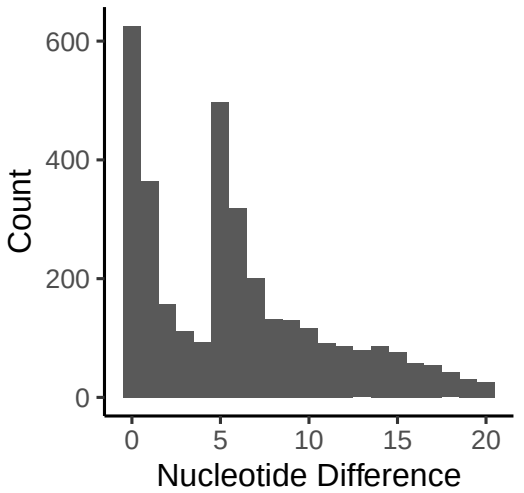
IGHV3−201*01

2 sequences assigned
No exact matches.



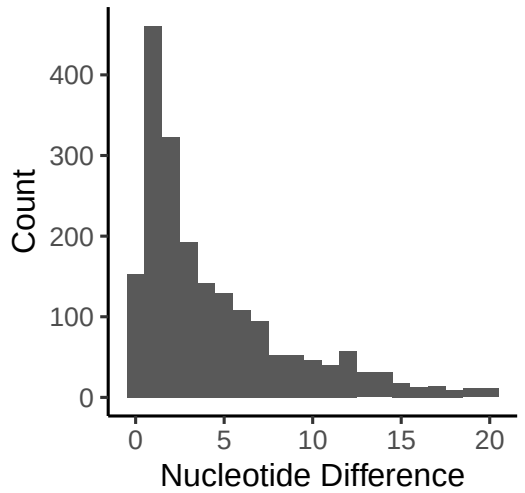
IGHV4−169*01_T60C_G6

3639 sequences assigned
626 (17.2%) exact matches, in which:
597 unique CDR3
5 unique J



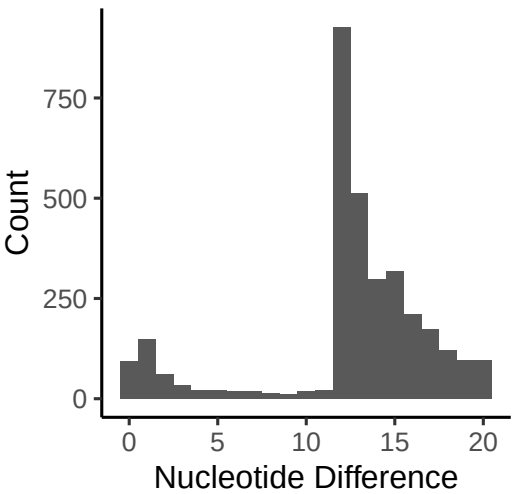
IGHV6−1*01_G280T

2035 sequences assigned
153 (7.5%) exact matches, in which:
150 unique CDR3
5 unique J



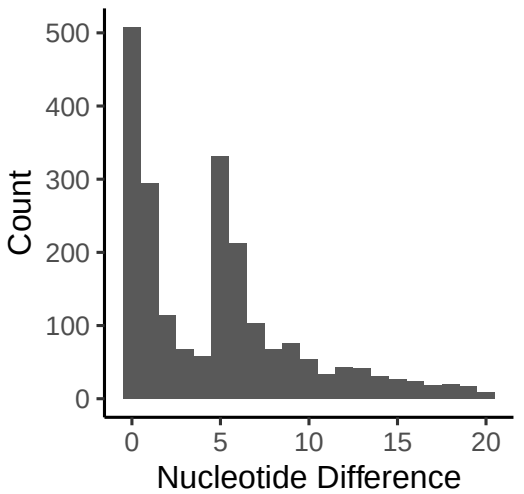
IGHV4−93*02_C297G

3860 sequences assigned
94 (2.4%) exact matches, in which:
93 unique CDR3
5 unique J



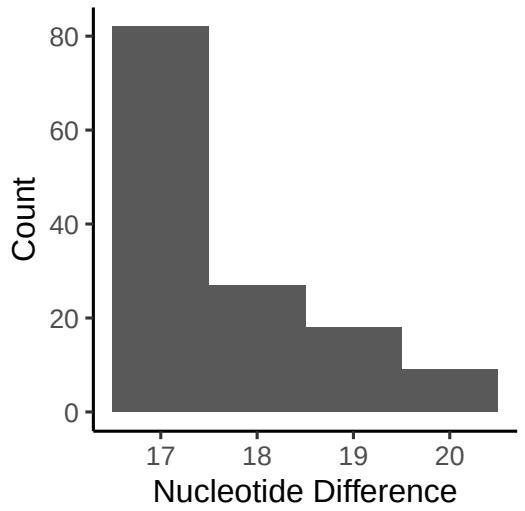
IGHV4−169*02_T60C_G6

2244 sequences assigned
508 (22.6%) exact matches, in which:
487 unique CDR3
5 unique J



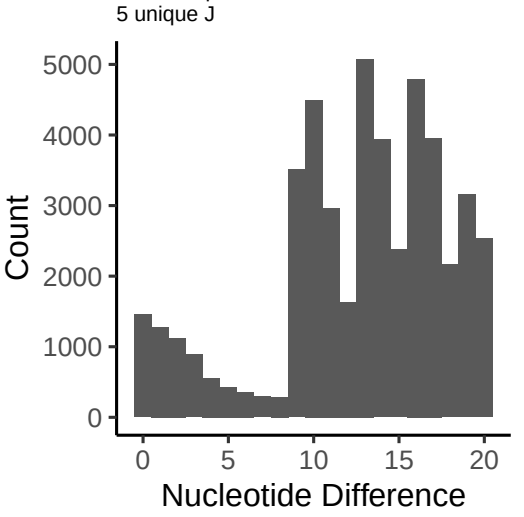
IGHV7−94*01

155 sequences assigned
No exact matches.



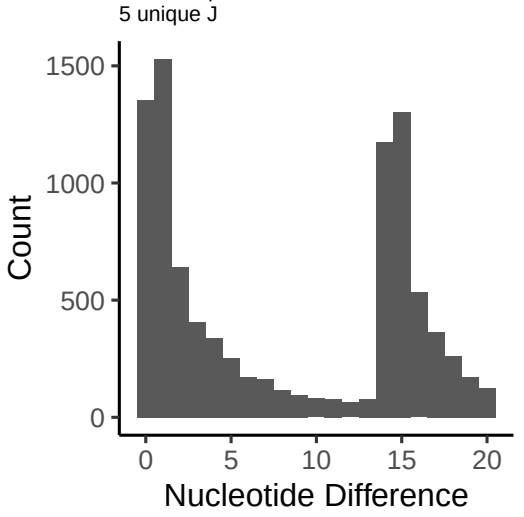
IGHV4−127*01_T82G_A

55629 sequences assigned
1459 (2.6%) exact matches, in which:
1415 unique CDR3
5 unique J



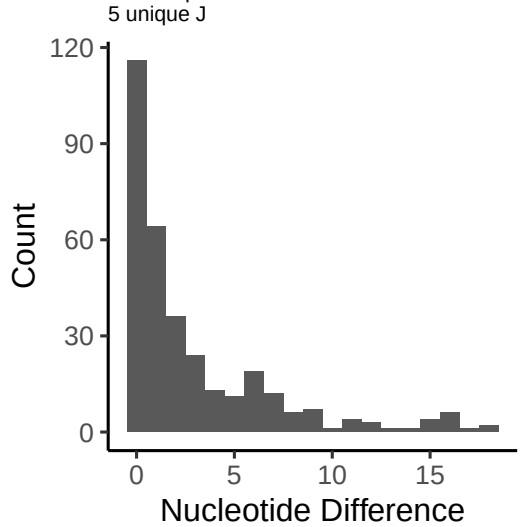
IGHV5−20*02_C312T

9691 sequences assigned
1354 (14%) exact matches, in which:
1175 unique CDR3
5 unique J



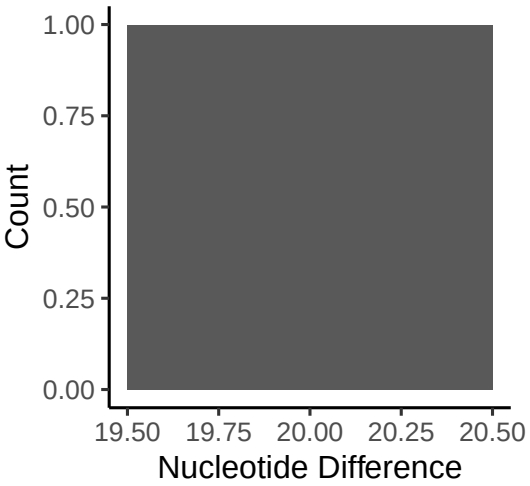
IGHV7−114*01_T81A

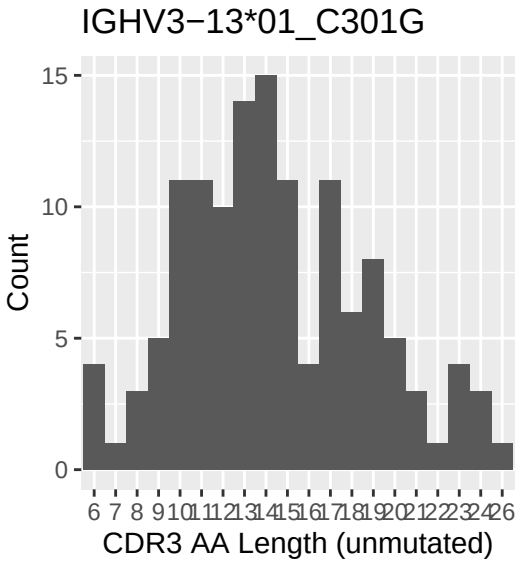
331 sequences assigned
116 (35%) exact matches, in which:
107 unique CDR3
5 unique J

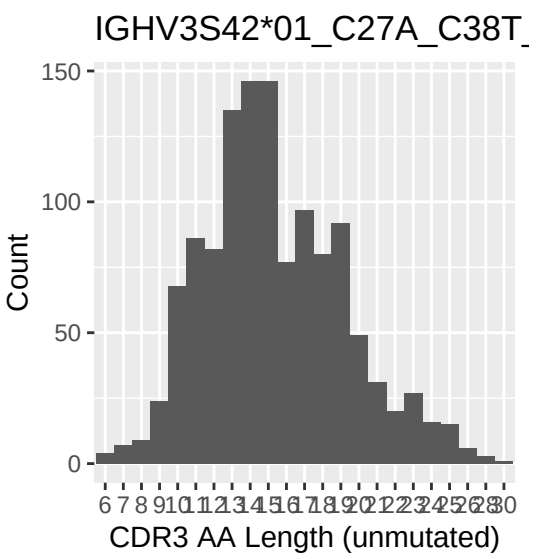


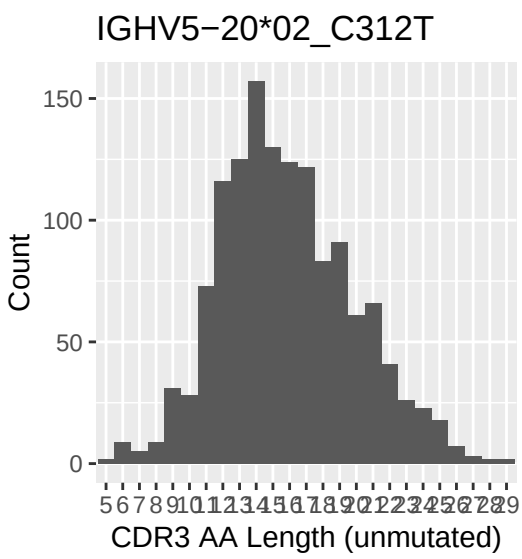
IGHV7−128*01

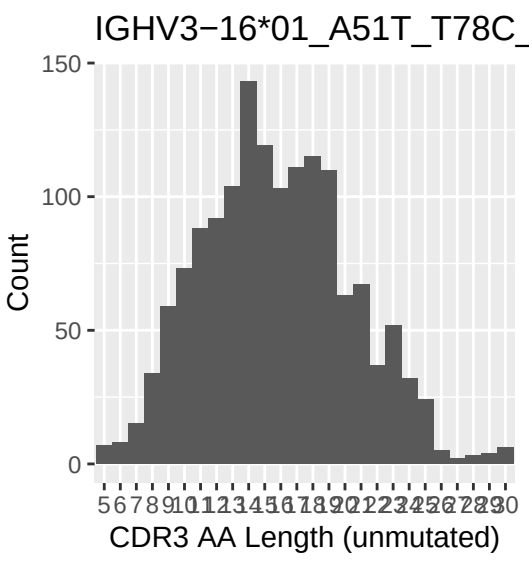
8 sequences assigned
No exact matches.

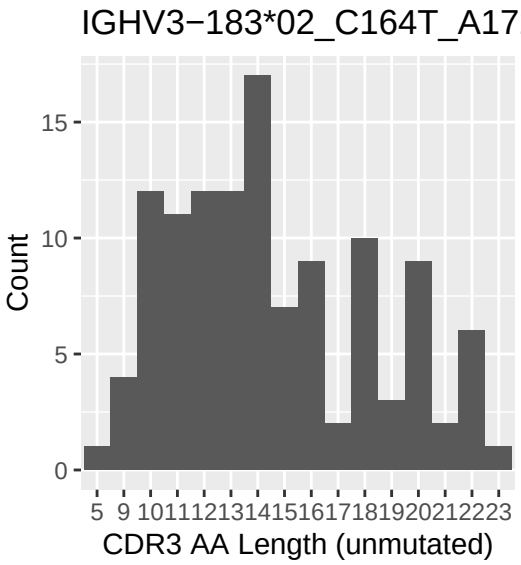


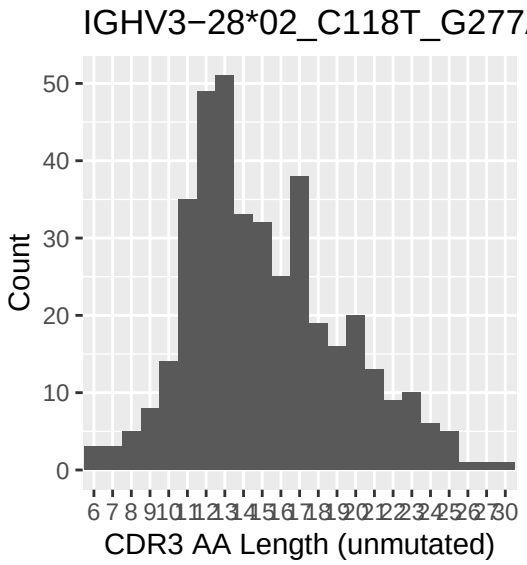

IGHV3−13*01_C301G
Count
CDR3 AA Length (unmutated)

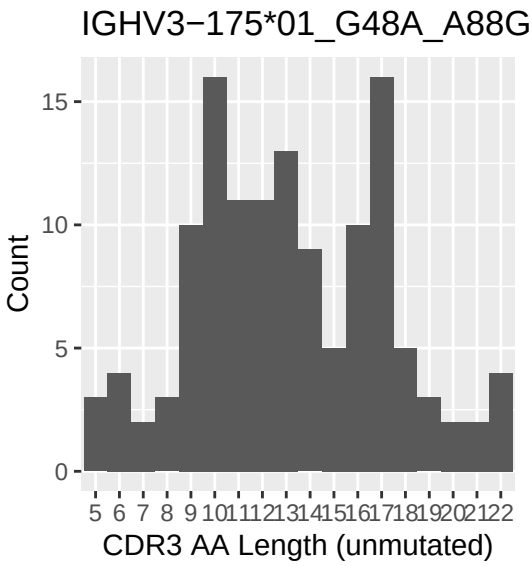

IGHV3S42*01_C27A_C38T_
Count
CDR3 AA Length (unmutated)

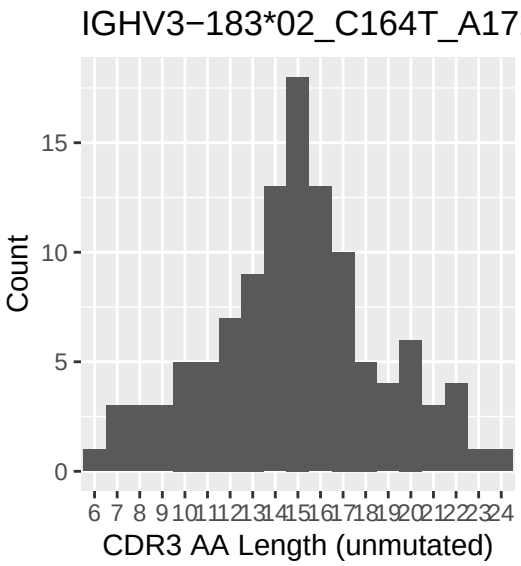

IGHV5−20*02_C312T
Count
CDR3 AA Length (unmutated)

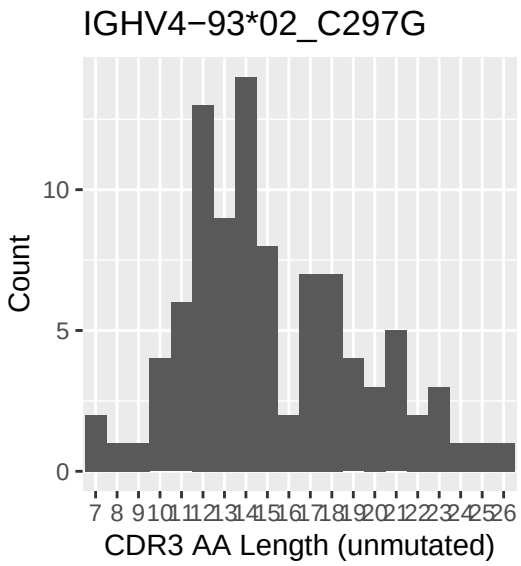

IGHV3−16*01_A51T_T78C_
Count
CDR3 AA Length (unmutated)

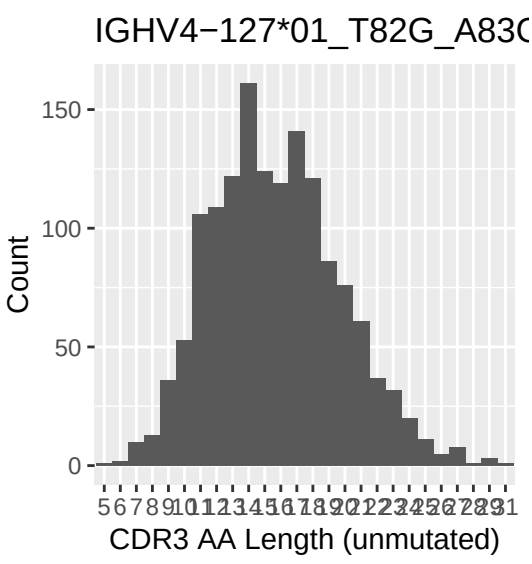

IGHV3−183*02_C164T_A172
Count
CDR3 AA Length (unmutated)


IGHV3−28*02_C118T_G277
Count
CDR3 AA Length (unmutated)


IGHV3−175*01_G48A_A88G
Count
CDR3 AA Length (unmutated)


IGHV3−183*02_C164T_A172
Count
CDR3 AA Length (unmutated)


IGHV4−93*02_C297G
Count
CDR3 AA Length (unmutated)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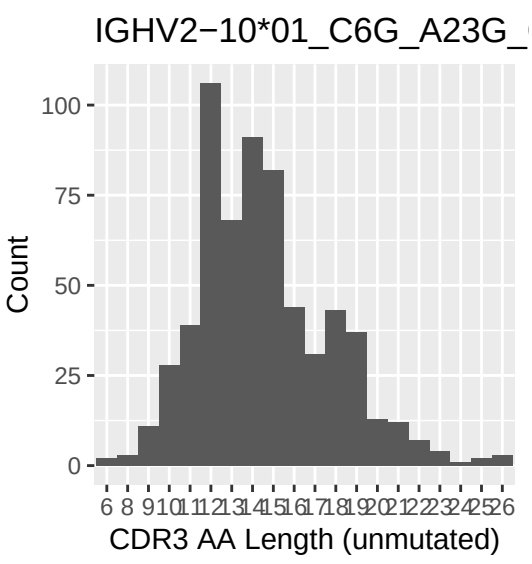
Count
CDR3 AA Length (unmutated)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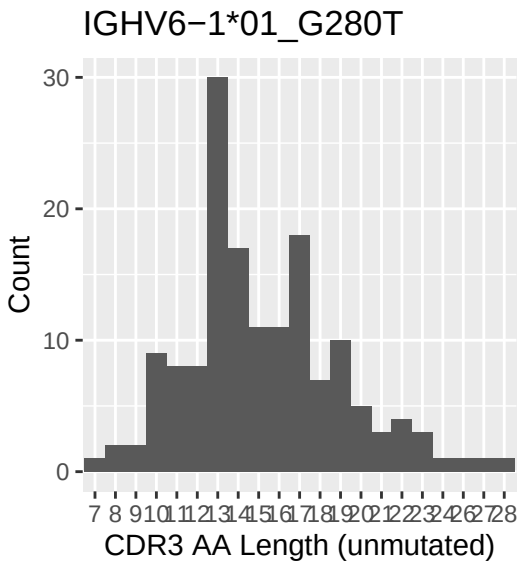
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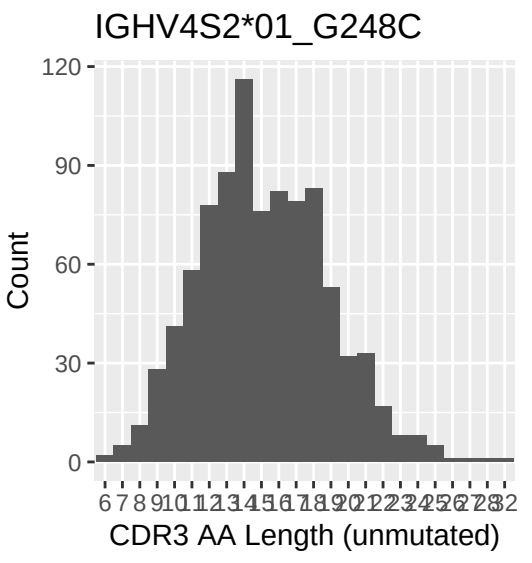
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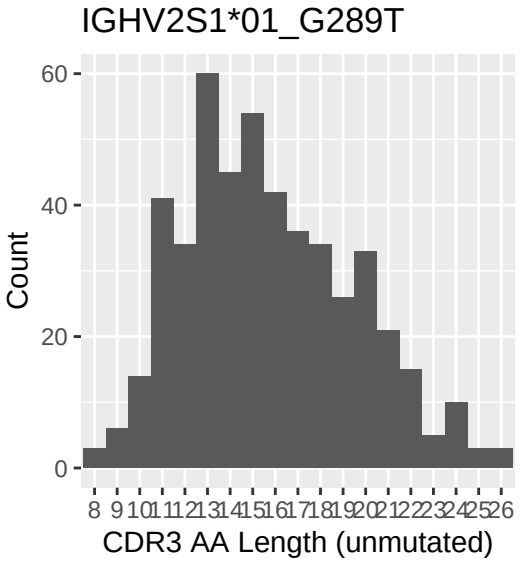
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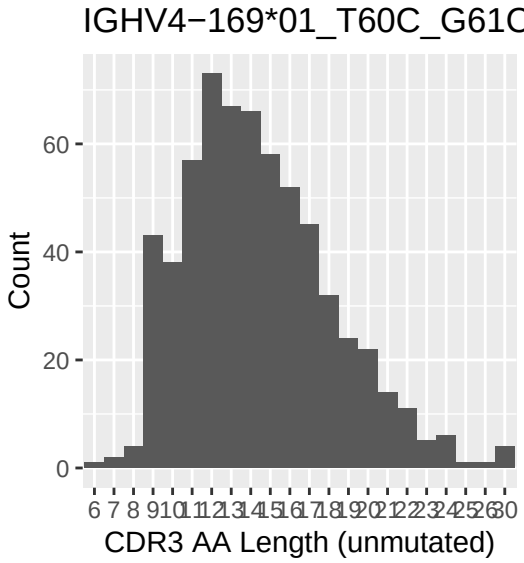
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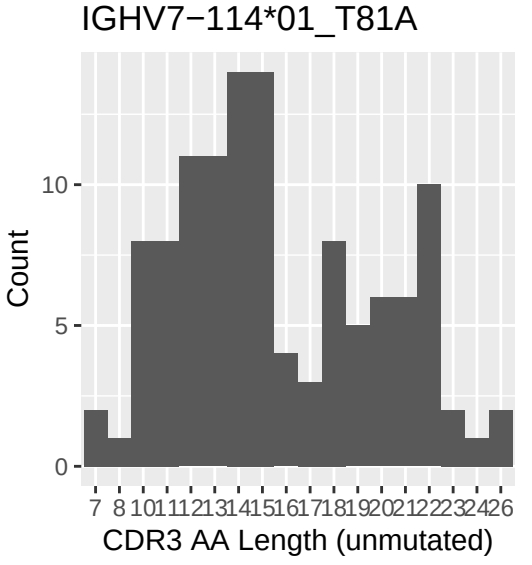
Count
CDR3 AA Length (unmutated)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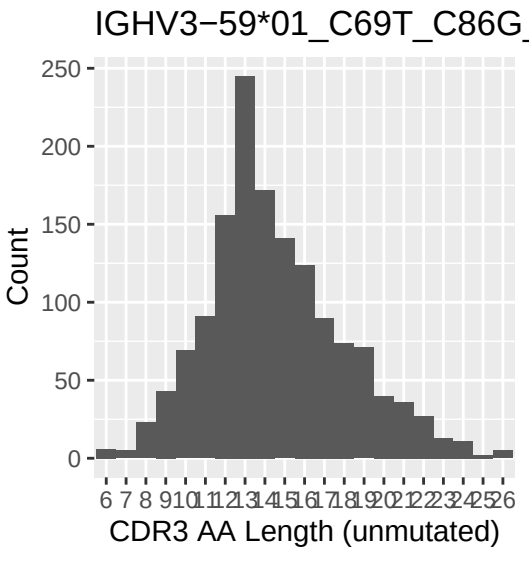
Count
CDR3 AA Length (unmutated)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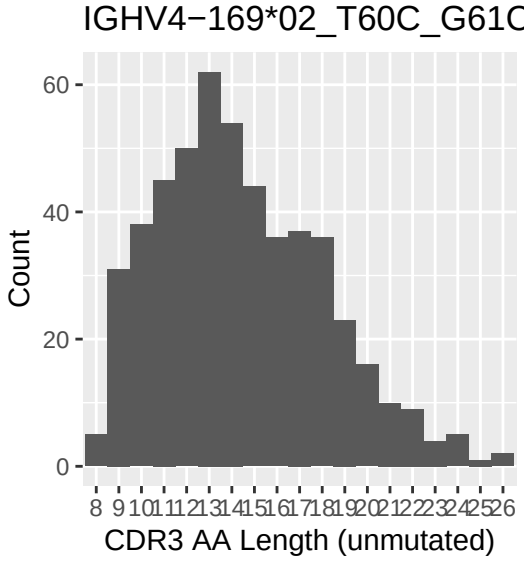
Count
CDR3 AA Length (unmutated)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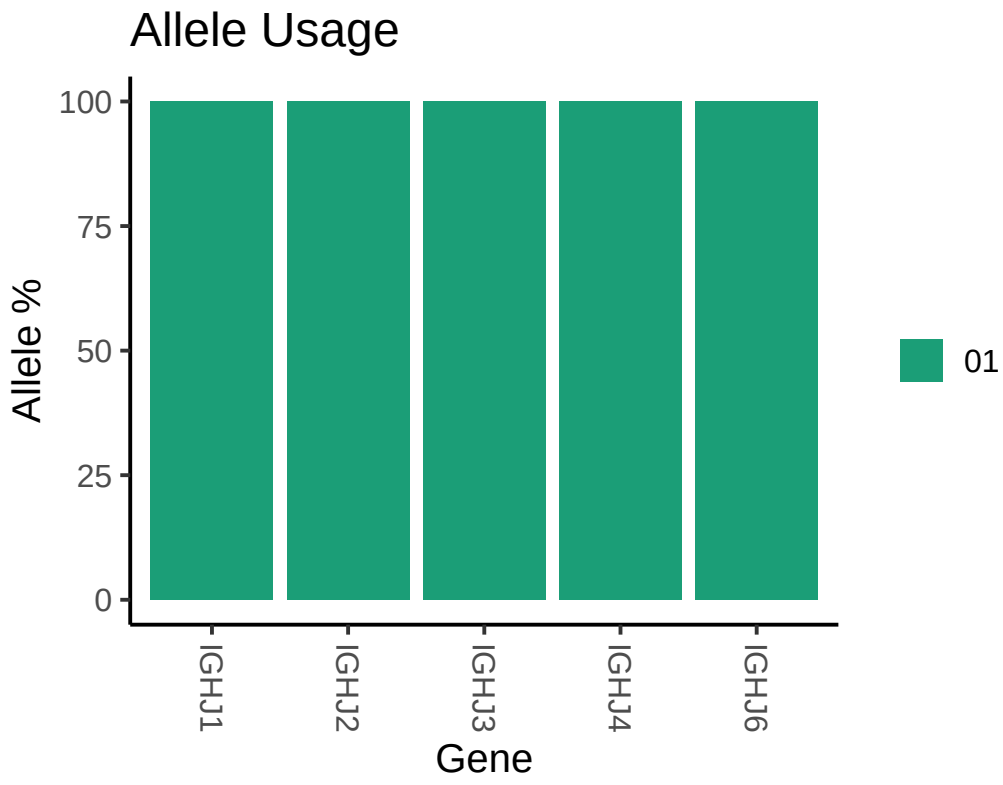
Count
CDR3 AA Length (unmutated)


Allele Usage
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50
25
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Allele %
IGHJ1
IGHJ2
IGHJ3
IGHJ4
IGHJ6
Gene
01

Warning − no inferred sequences found.

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Warning − no inferred sequences found.