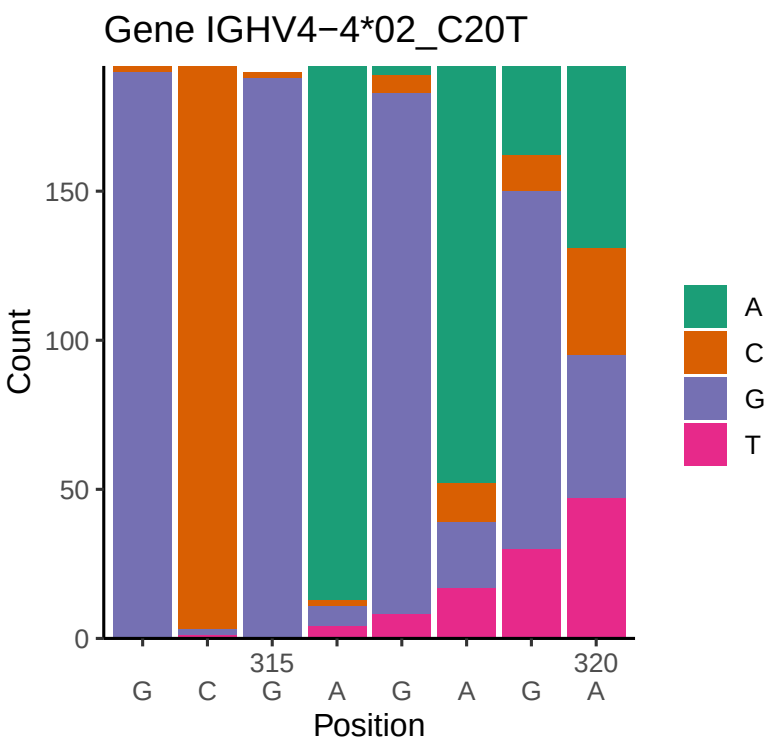
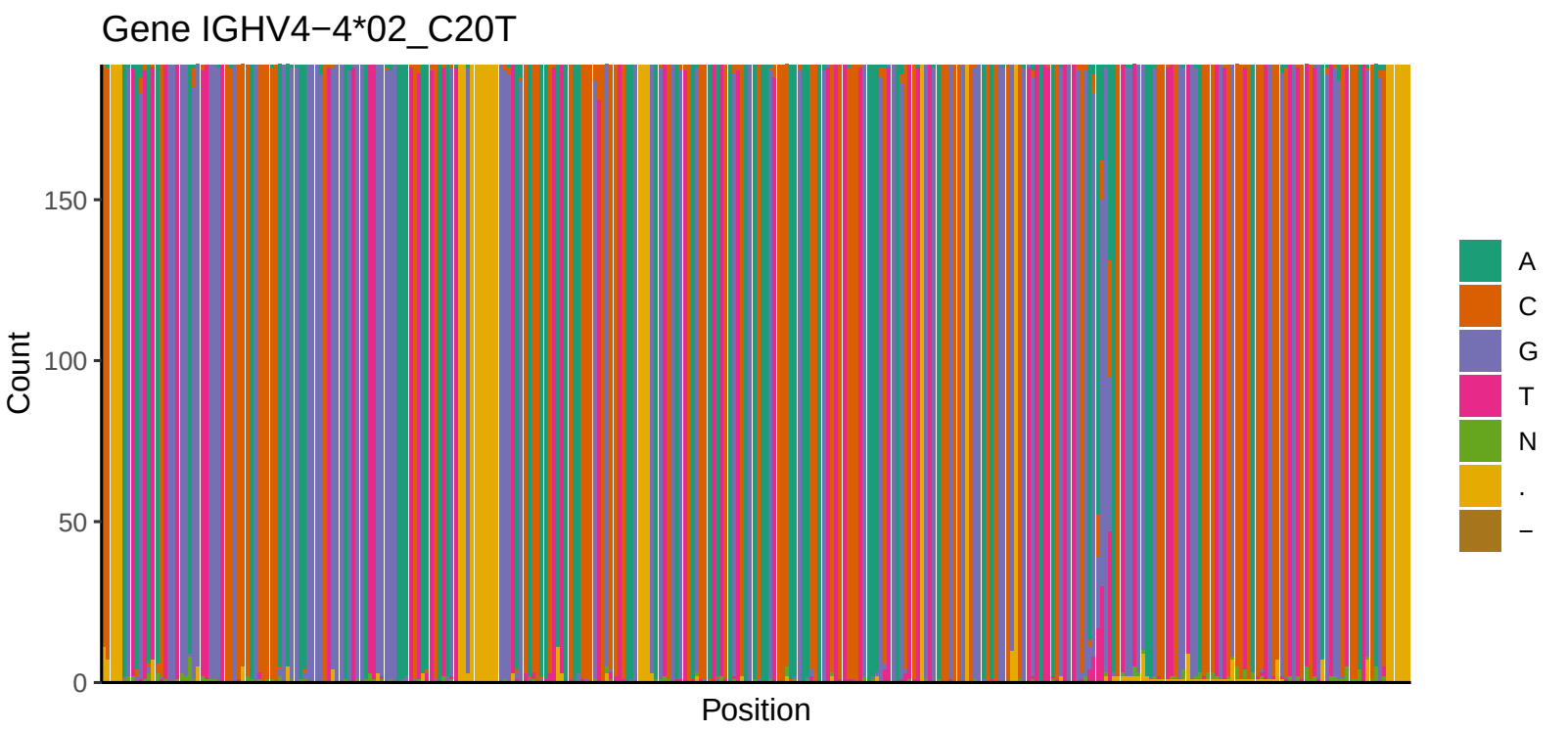
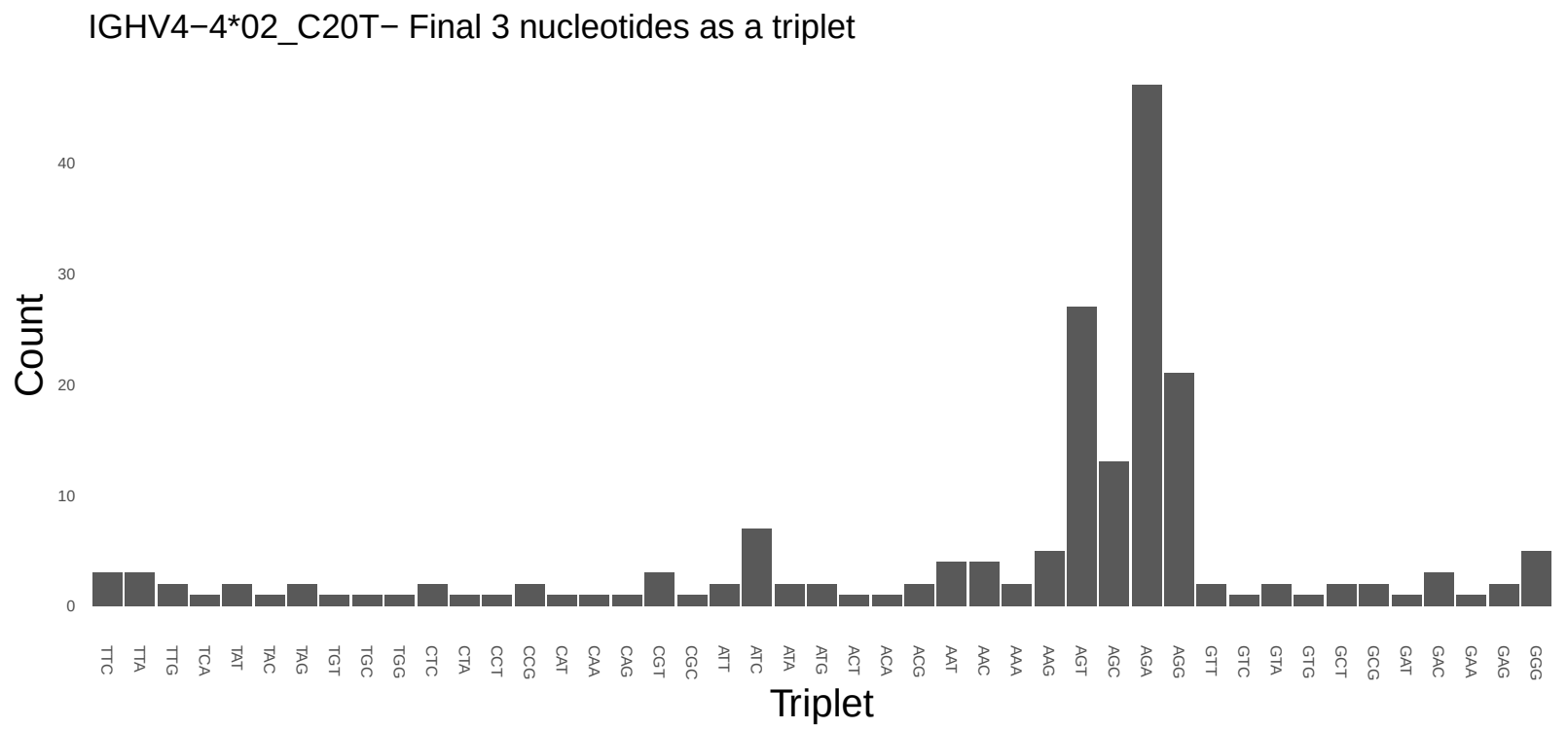
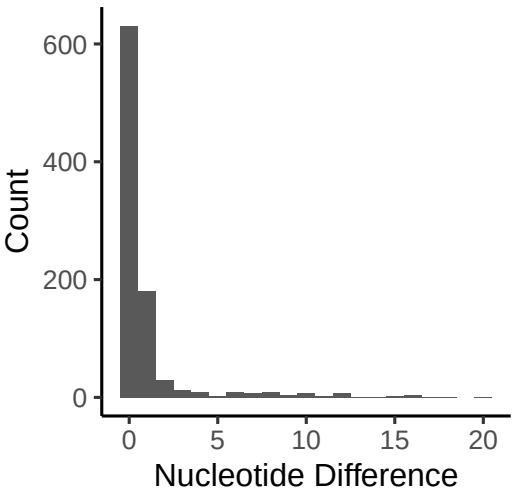

Gene IGHV4−4*02_C20T
Count
150
100
50
0
G
C
315
G
A
G
A
G
320
A
Position
A
C
G
T


Gene IGHV4−4*02_C20T
Count
150
100
50
0
Position
A
C
G
T
N
.
–


IGHV4−4*02_C20T− Final 3 nucleotides as a triplet
Count
0
10
20
30
40
TTC
TTA
TTG
TCA
TAT
TAC
TAG
TGT
TGC
TGG
CTC
CTA
CCT
CCG
CAT
CAA
CAG
CGT
CGC
ATT
ATC
ATA
ATG
ACT
ACA
ACG
AAT
AAC
AAA
AAG
AGT
AGC
AGA
AGG
GTT
GTC
GTA
GTG
GCT
GCG
GAT
GAC
GAA
GAG
GGG
Triplet

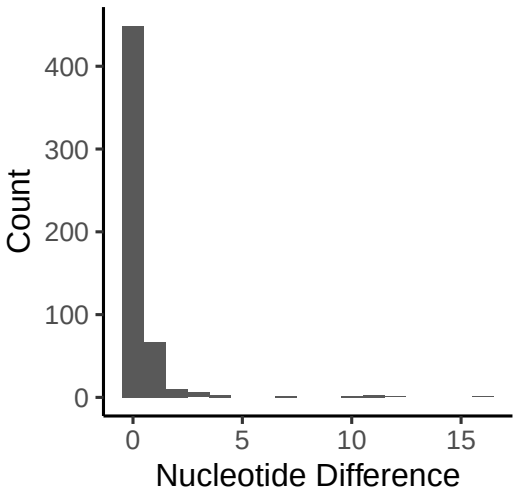
IGHV1−2*02

931 sequences assigned
631 (67.8%) exact matches, in which:
619 unique CDR3
6 unique J



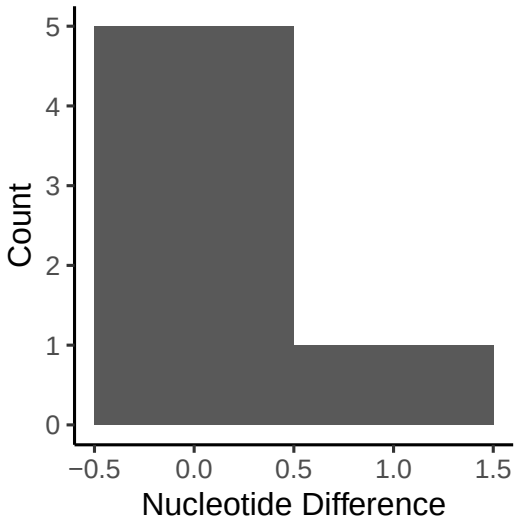
IGHV1−8*01

544 sequences assigned
449 (82.5%) exact matches, in which:
442 unique CDR3
7 unique J



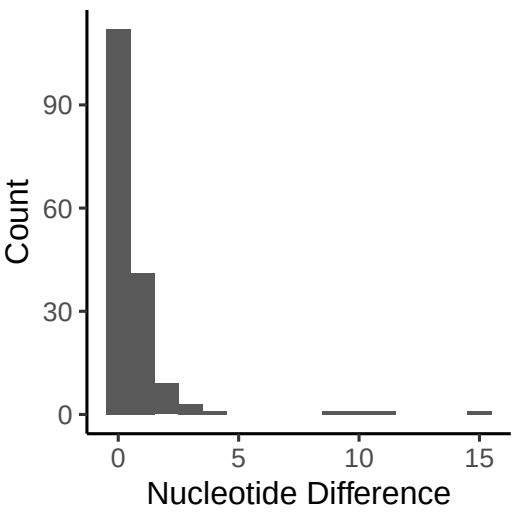
IGHV1−45*02

6 sequences assigned
5 (83.3%) exact matches, in which:
5 unique CDR3
3 unique J



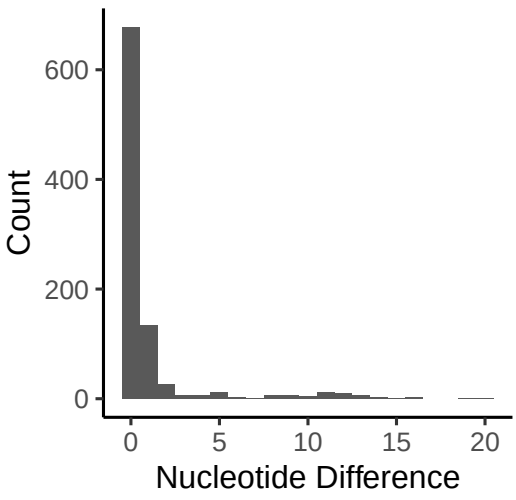
IGHV1−2*04

170 sequences assigned
112 (65.9%) exact matches, in which:
110 unique CDR3
6 unique J



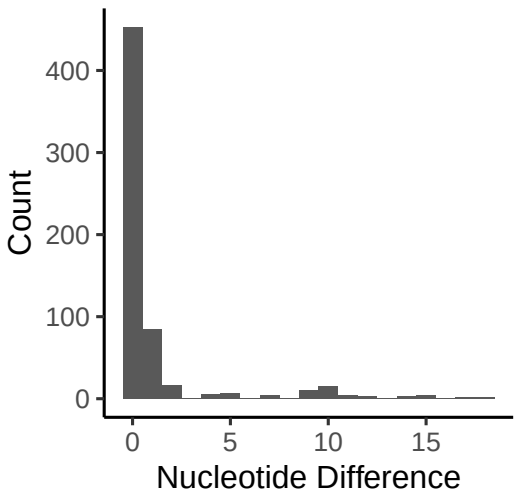
IGHV1−18*01

926 sequences assigned
678 (73.2%) exact matches, in which:
670 unique CDR3
7 unique J



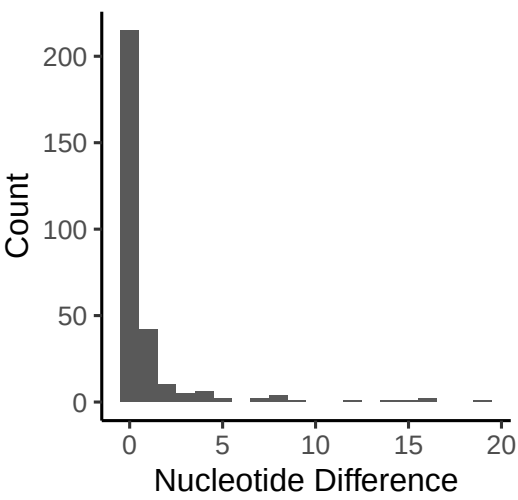
IGHV1−46*01

624 sequences assigned
453 (72.6%) exact matches, in which:
446 unique CDR3
7 unique J



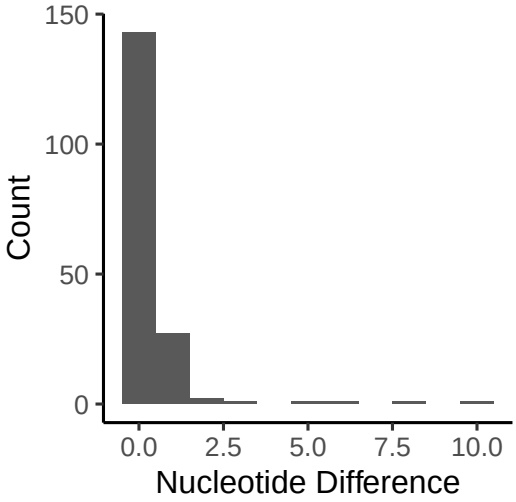
IGHV1−3*01

295 sequences assigned
215 (72.9%) exact matches, in which:
213 unique CDR3
6 unique J



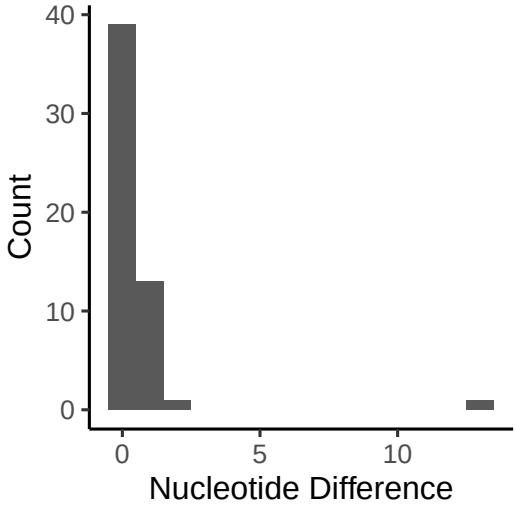
IGHV1−24*01

177 sequences assigned
143 (80.8%) exact matches, in which:
141 unique CDR3
7 unique J



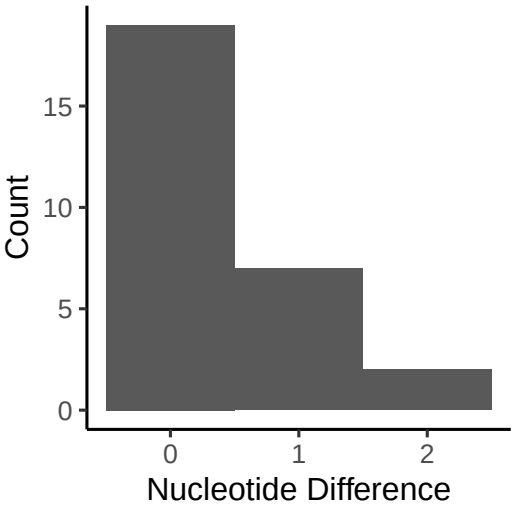
IGHV1−58*01

54 sequences assigned
39 (72.2%) exact matches, in which:
39 unique CDR3
5 unique J



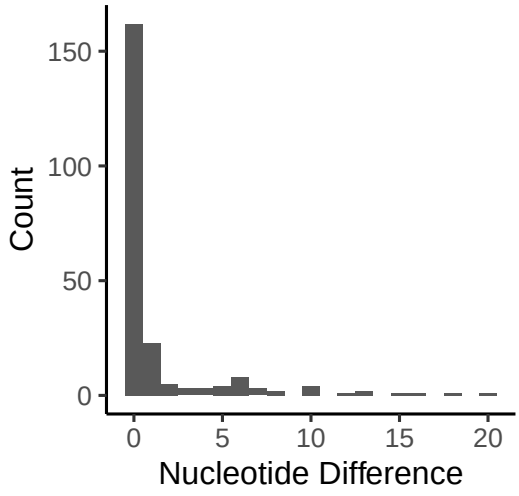
IGHV1−58*02

28 sequences assigned
19 (67.9%) exact matches, in which:
19 unique CDR3
4 unique J



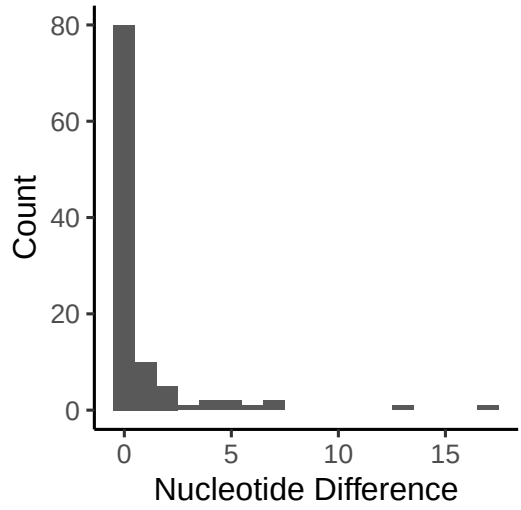
IGHV2−5*02

226 sequences assigned
162 (71.7%) exact matches, in which:
158 unique CDR3
6 unique J



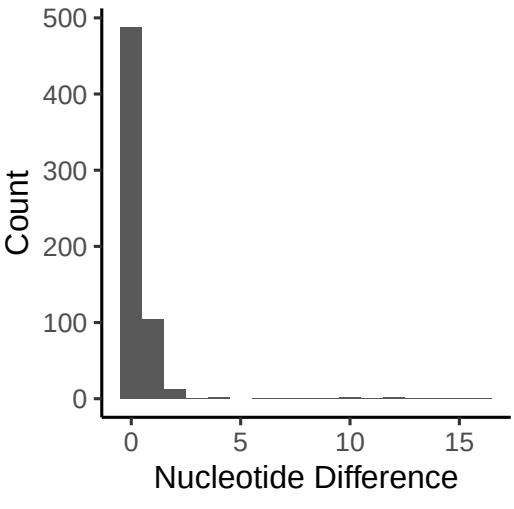
IGHV2−70*15

109 sequences assigned
80 (73.4%) exact matches, in which:
79 unique CDR3
4 unique J



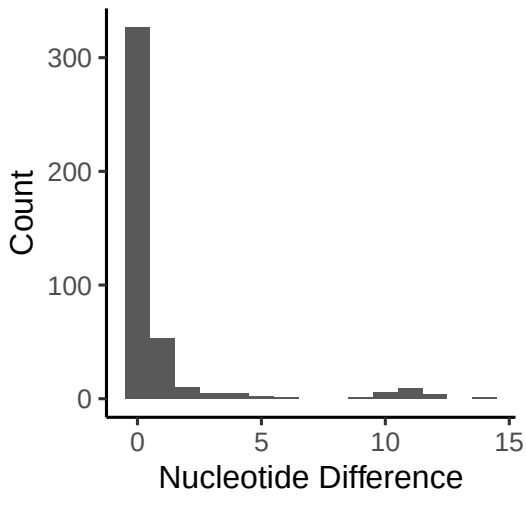
IGHV1−69*04

626 sequences assigned
488 (78%) exact matches, in which:
480 unique CDR3
6 unique J



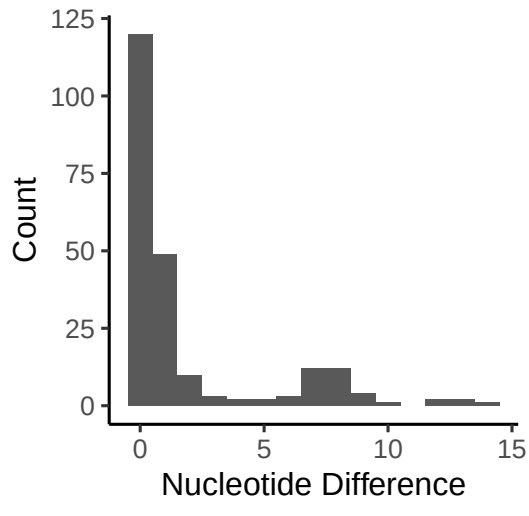
IGHV2−26*01

424 sequences assigned
327 (77.1%) exact matches, in which:
320 unique CDR3
7 unique J



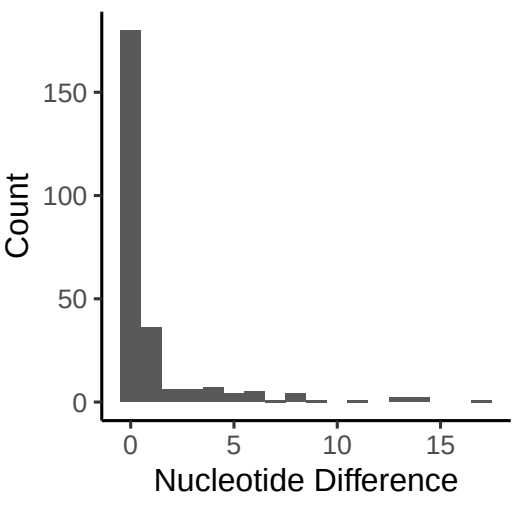
IGHV3−7*01

223 sequences assigned
120 (53.8%) exact matches, in which:
118 unique CDR3
6 unique J



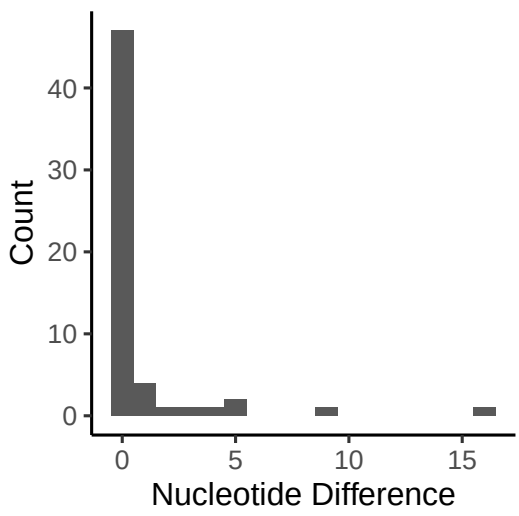
IGHV2−5*01

256 sequences assigned
180 (70.3%) exact matches, in which:
177 unique CDR3
6 unique J



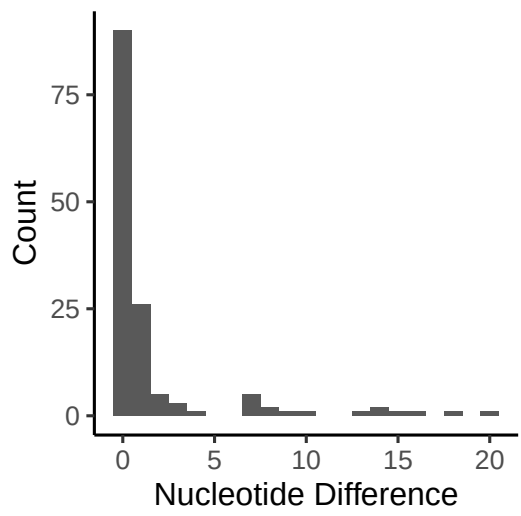
IGHV2−70*01

59 sequences assigned
47 (79.7%) exact matches, in which:
47 unique CDR3
5 unique J



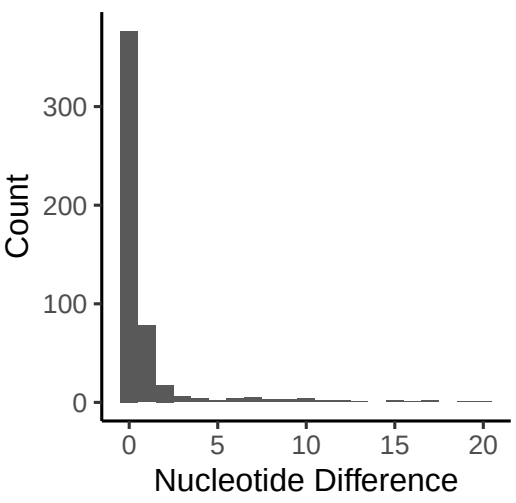
IGHV3−7*03

142 sequences assigned
90 (63.4%) exact matches, in which:
90 unique CDR3
5 unique J



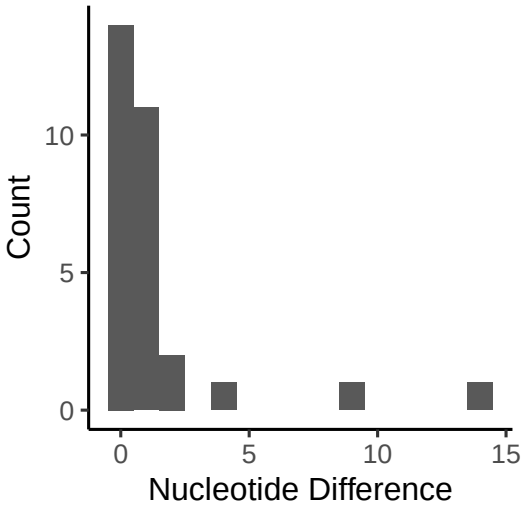
IGHV3−9*01

517 sequences assigned
377 (72.9%) exact matches, in which:
372 unique CDR3
6 unique J



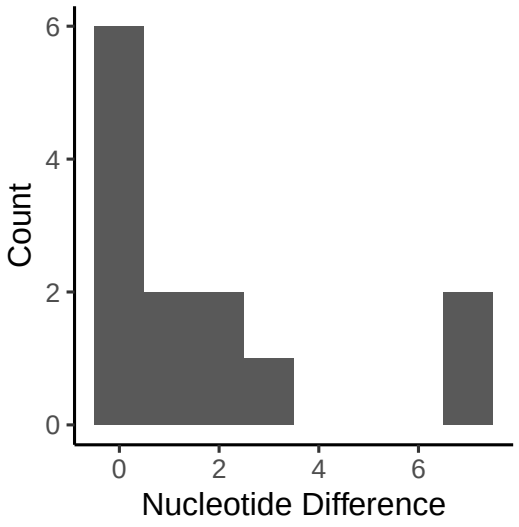
IGHV3−13*01

30 sequences assigned
14 (46.7%) exact matches, in which:
14 unique CDR3
4 unique J



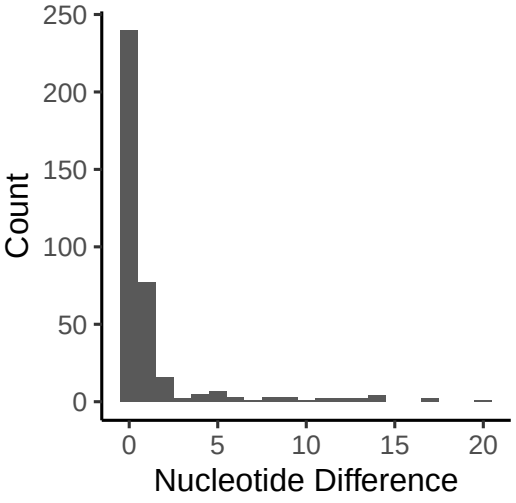
IGHV3−20*01

13 sequences assigned
6 (46.2%) exact matches, in which:
6 unique CDR3
3 unique J



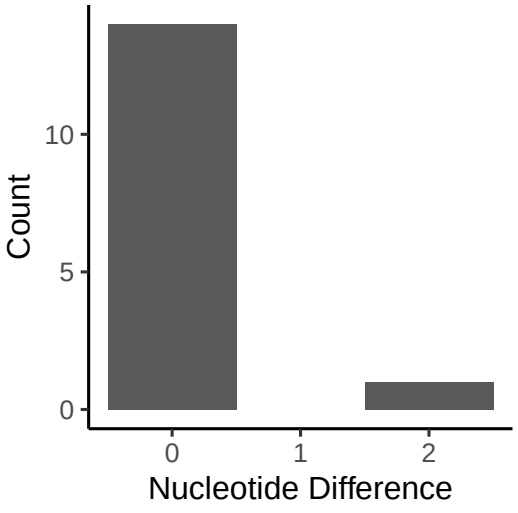
IGHV3−11*01

377 sequences assigned
240 (63.7%) exact matches, in which:
236 unique CDR3
6 unique J



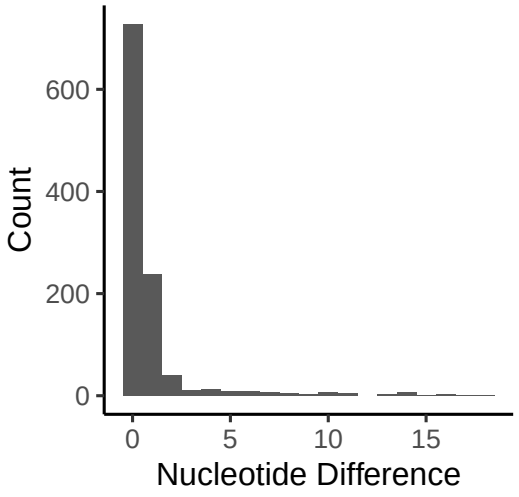
IGHV3−13*05

15 sequences assigned
14 (93.3%) exact matches, in which:
14 unique CDR3
5 unique J



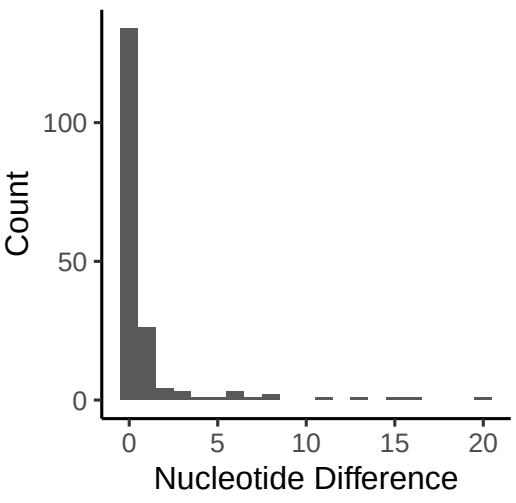
IGHV3−21*01

1086 sequences assigned
728 (67%) exact matches, in which:
716 unique CDR3
7 unique J



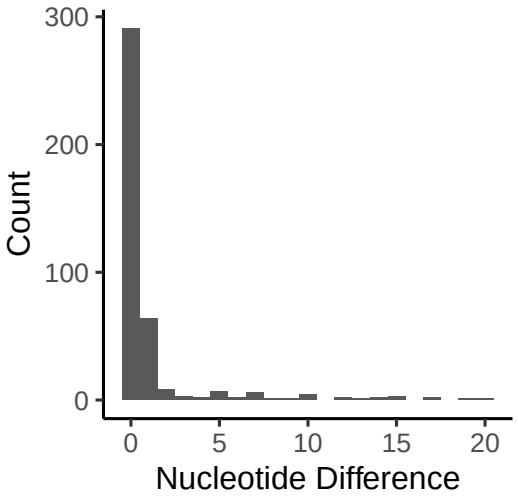
IGHV3−11*06

181 sequences assigned
134 (74%) exact matches, in which:
131 unique CDR3
6 unique J



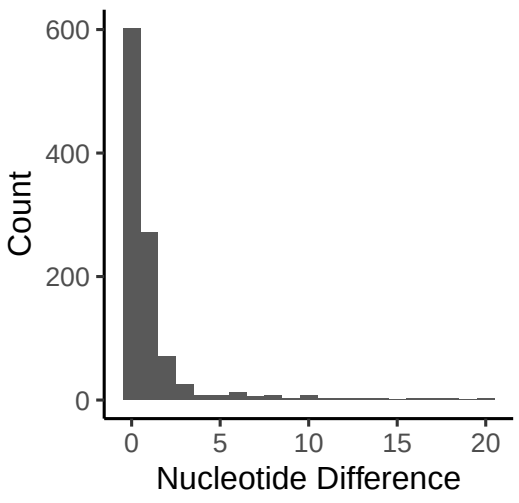
IGHV3−15*01

412 sequences assigned
291 (70.6%) exact matches, in which:
285 unique CDR3
7 unique J



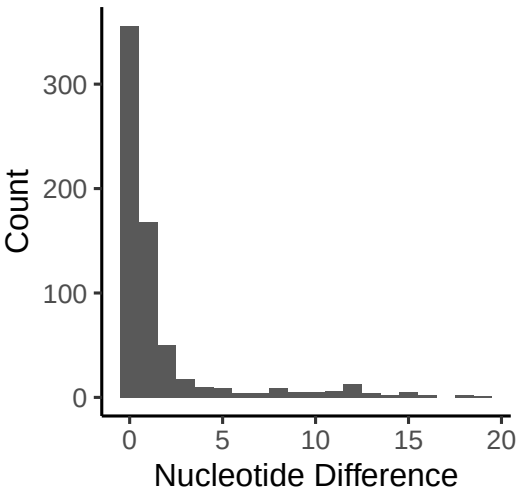
IGHV3−30−3*01

1047 sequences assigned
602 (57.5%) exact matches, in which:
594 unique CDR3
7 unique J



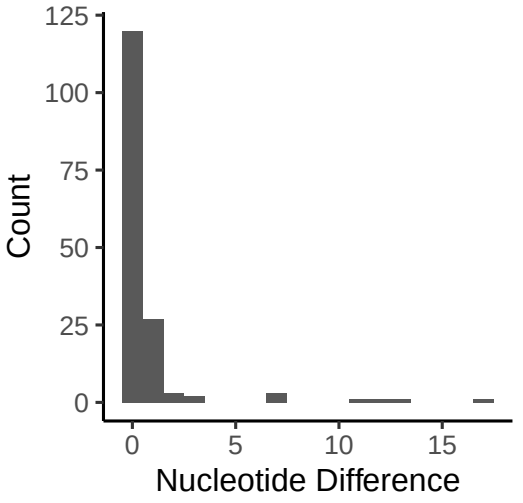
IGHV3−33*01

676 sequences assigned
356 (52.7%) exact matches, in which:
355 unique CDR3
7 unique J



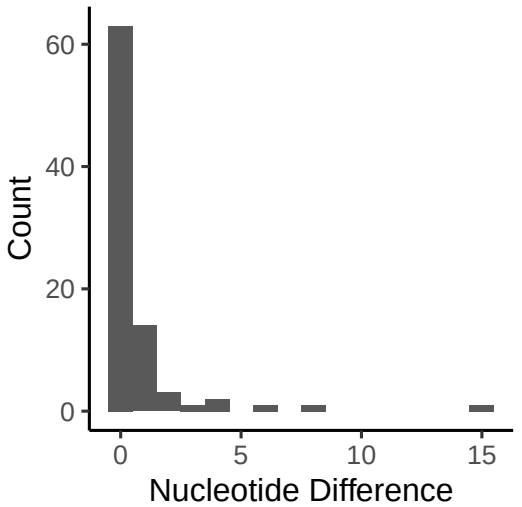
IGHV3−48*02

160 sequences assigned
120 (75%) exact matches, in which:
120 unique CDR3
6 unique J



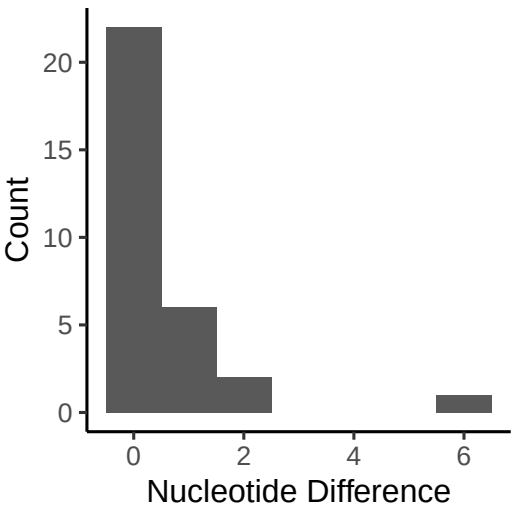
IGHV3−49*05

86 sequences assigned
63 (73.3%) exact matches, in which:
63 unique CDR3
6 unique J



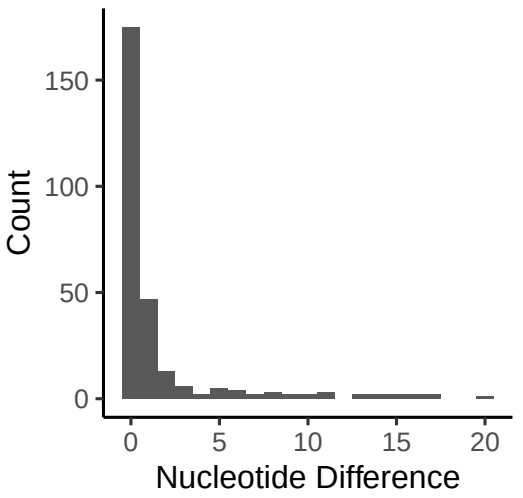
IGHV3−43*01

31 sequences assigned
22 (71%) exact matches, in which:
22 unique CDR3
5 unique J



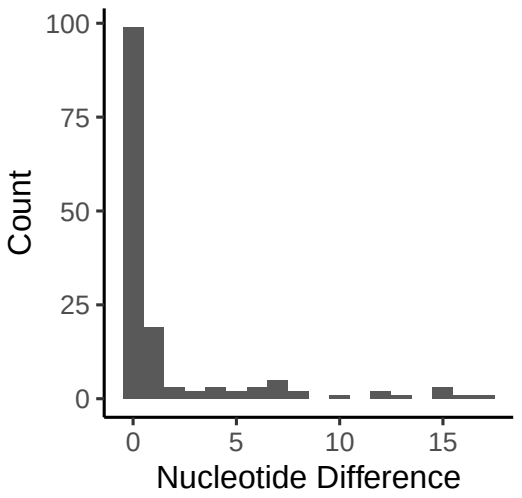
IGHV3−48*03

277 sequences assigned
175 (63.2%) exact matches, in which:
175 unique CDR3
6 unique J



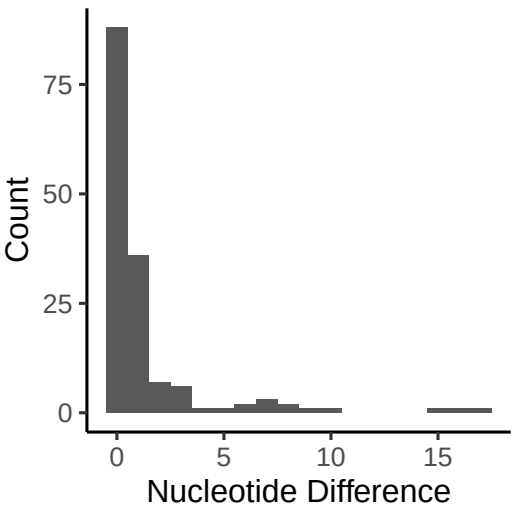
IGHV3−53*01

153 sequences assigned
99 (64.7%) exact matches, in which:
97 unique CDR3
6 unique J



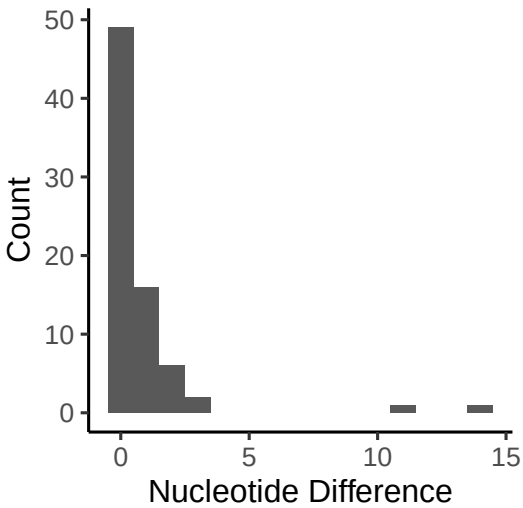
IGHV3−43*02

152 sequences assigned
88 (57.9%) exact matches, in which:
88 unique CDR3
5 unique J



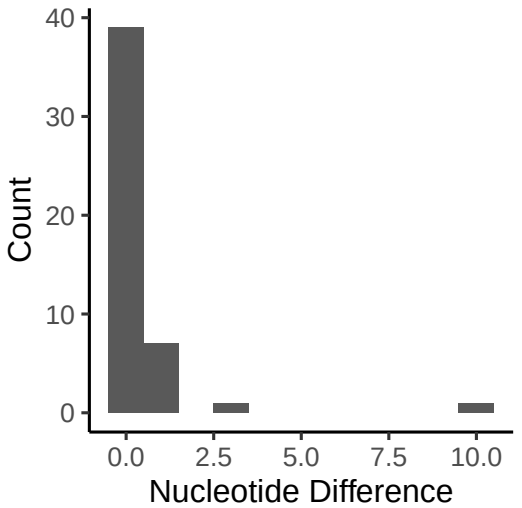
IGHV3−49*04

76 sequences assigned
49 (64.5%) exact matches, in which:
43 unique CDR3
5 unique J



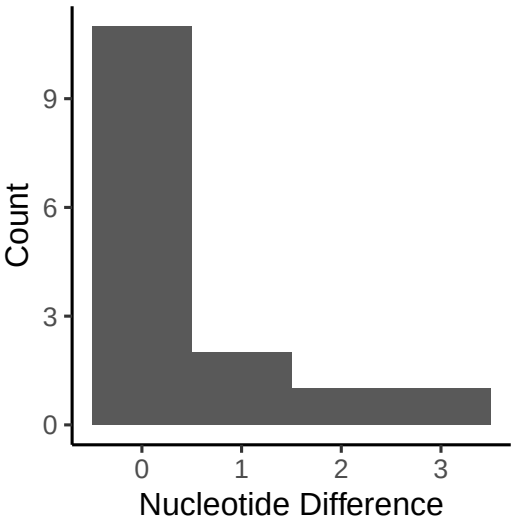
IGHV3−53*04

48 sequences assigned
39 (81.2%) exact matches, in which:
39 unique CDR3
5 unique J



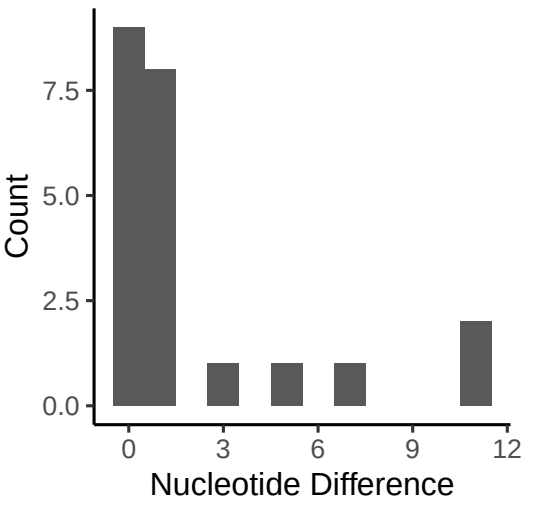
IGHV3−64*01

15 sequences assigned
11 (73.3%) exact matches, in which:
11 unique CDR3
2 unique J



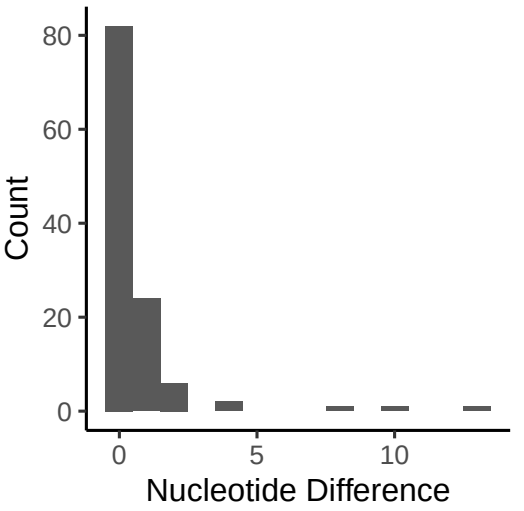
IGHV3−73*01

22 sequences assigned
9 (40.9%) exact matches, in which:
9 unique CDR3
3 unique J



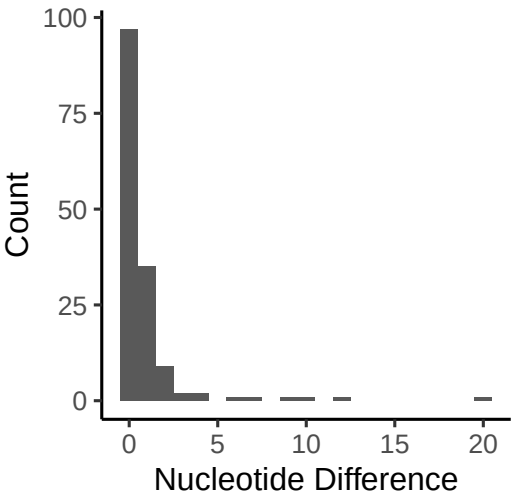
IGHV3−64D*06

118 sequences assigned
82 (69.5%) exact matches, in which:
82 unique CDR3
6 unique J



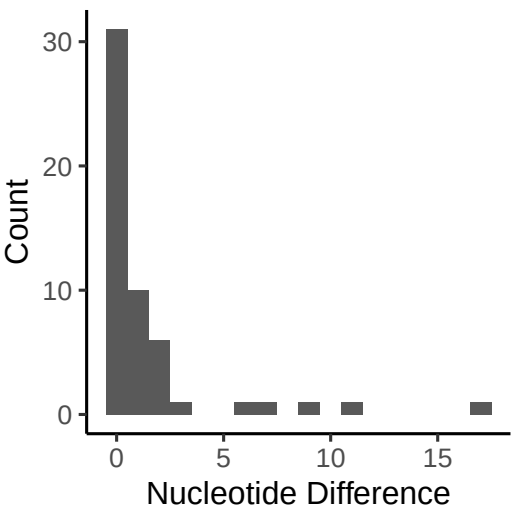
IGHV3−66*01

151 sequences assigned
97 (64.2%) exact matches, in which:
96 unique CDR3
6 unique J



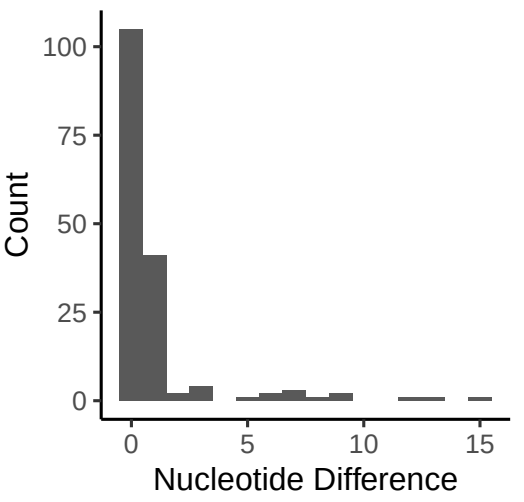
IGHV3−73*02

53 sequences assigned
31 (58.5%) exact matches, in which:
29 unique CDR3
4 unique J



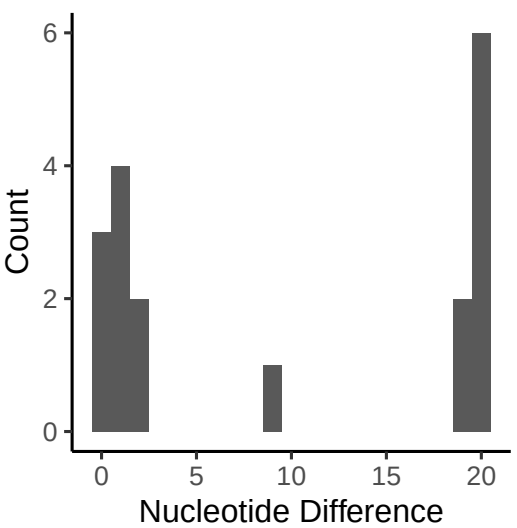
IGHV4−4*07

165 sequences assigned
105 (63.6%) exact matches, in which:
104 unique CDR3
5 unique J



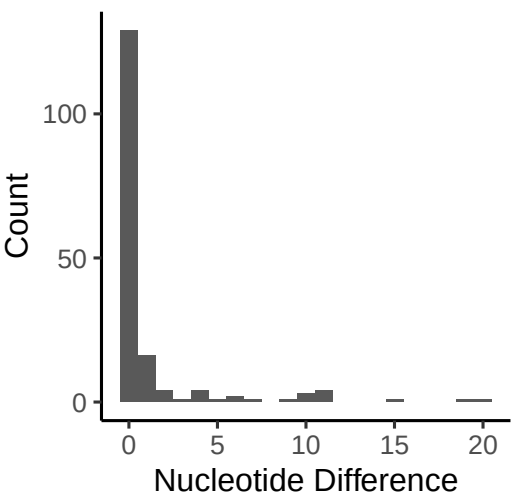
IGHV3−72*01

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



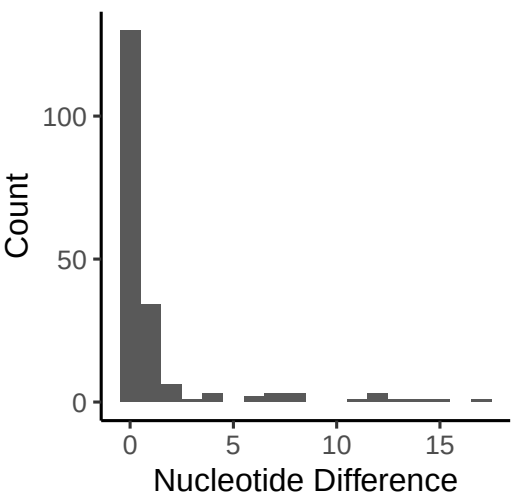
IGHV3−74*01

171 sequences assigned
129 (75.4%) exact matches, in which:
127 unique CDR3
7 unique J



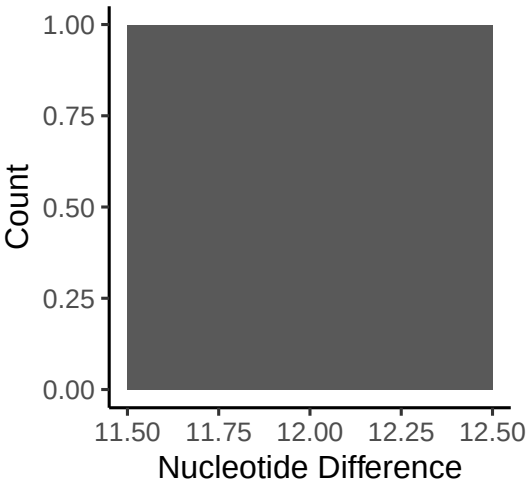
IGHV4−4*02_C20T

192 sequences assigned
130 (67.7%) exact matches, in which:
128 unique CDR3
6 unique J



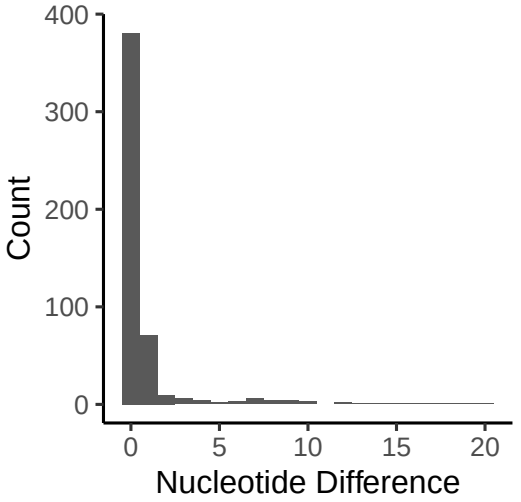
IGHV4−28*01

1 sequences assigned
No exact matches.



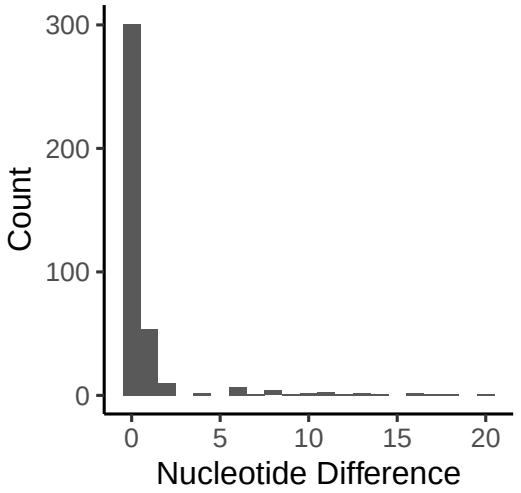
IGHV4−31*03

508 sequences assigned
381 (75%) exact matches, in which:
380 unique CDR3
7 unique J



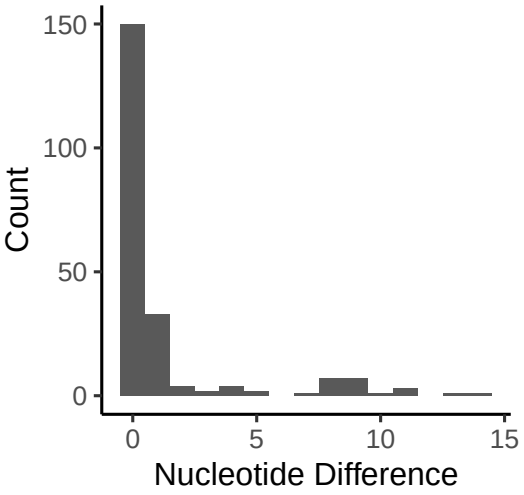
IGHV4−59*01

398 sequences assigned
301 (75.6%) exact matches, in which:
298 unique CDR3
7 unique J



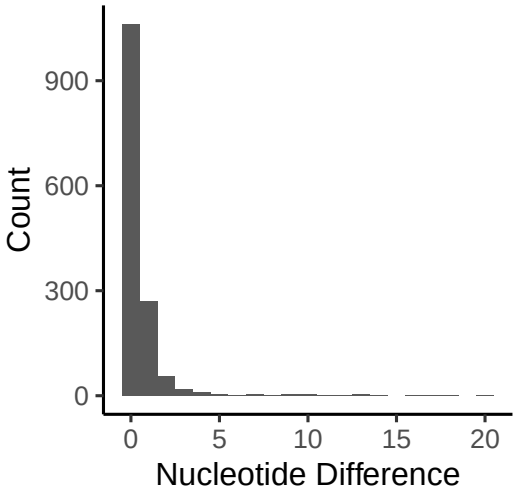
IGHV4−30−4*01

218 sequences assigned
150 (68.8%) exact matches, in which:
148 unique CDR3
5 unique J



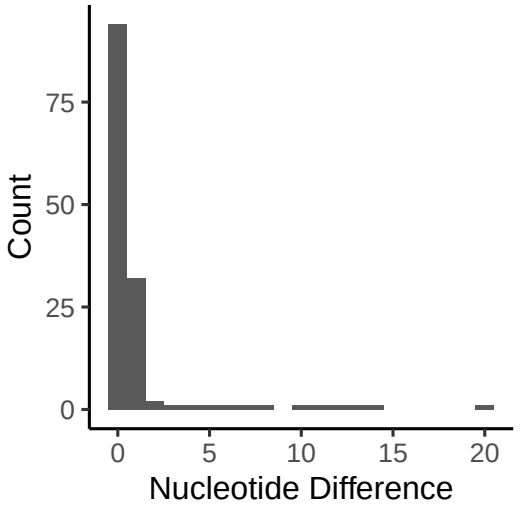
IGHV4−34*01

1452 sequences assigned
1062 (73.1%) exact matches, in which:
1036 unique CDR3
7 unique J



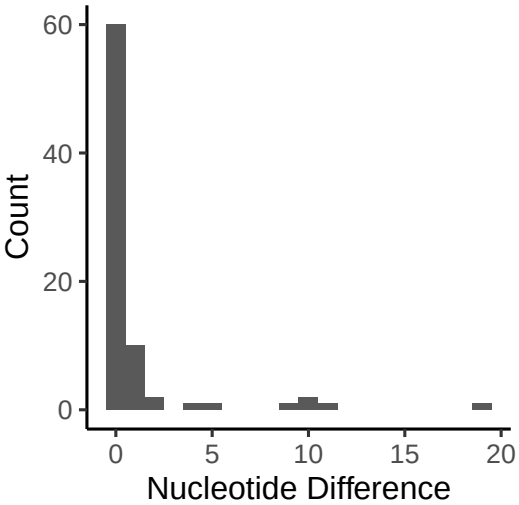
IGHV4−59*08

142 sequences assigned
94 (66.2%) exact matches, in which:
92 unique CDR3
6 unique J



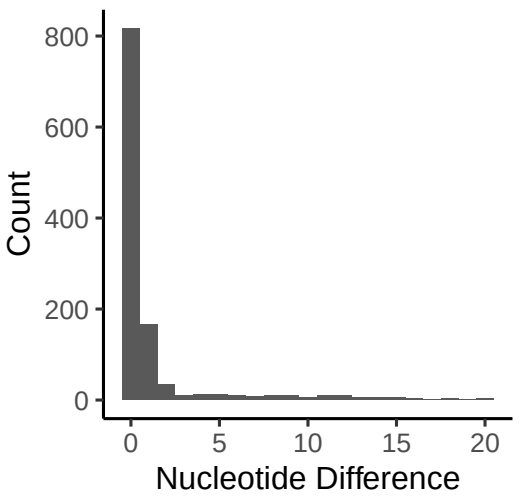
IGHV4−30−2*01

79 sequences assigned
60 (75.9%) exact matches, in which:
60 unique CDR3
6 unique J



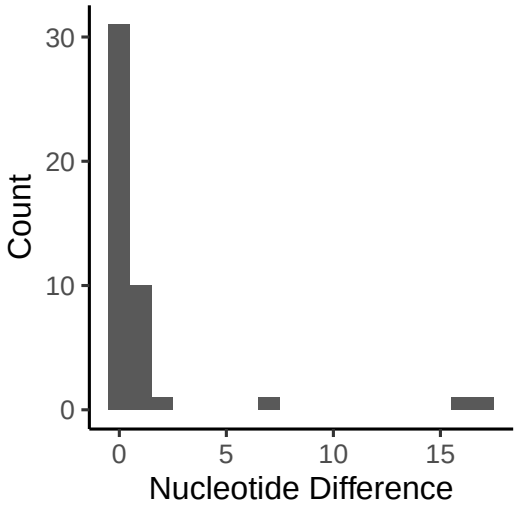
IGHV4−39*01

1154 sequences assigned
817 (70.8%) exact matches, in which:
805 unique CDR3
7 unique J



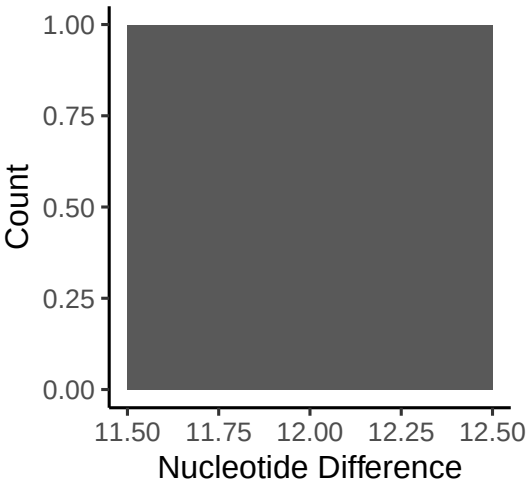
IGHV4−61*01

46 sequences assigned
31 (67.4%) exact matches, in which:
31 unique CDR3
4 unique J



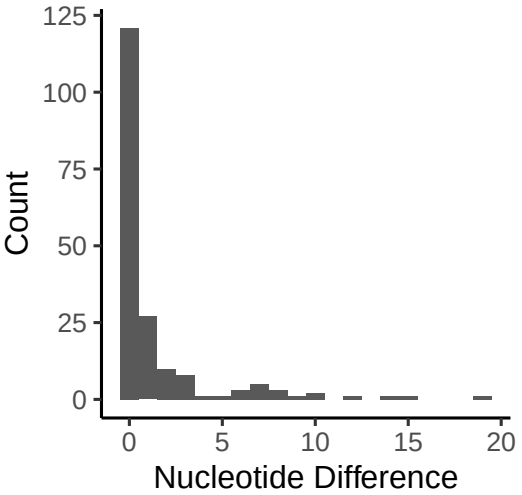
IGHV1/OR15−9*01

1 sequences assigned
No exact matches.



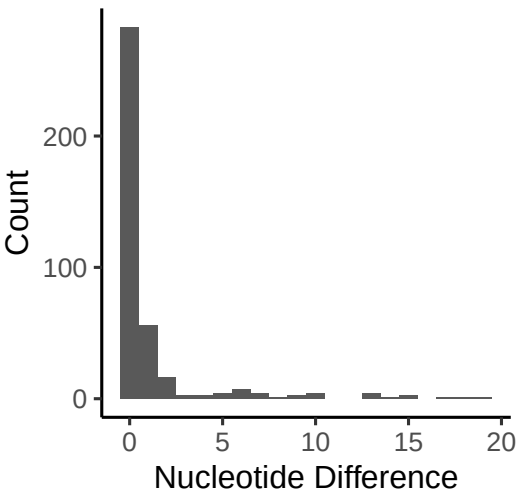
IGHV6−1*01

186 sequences assigned
121 (65.1%) exact matches, in which:
120 unique CDR3
6 unique J



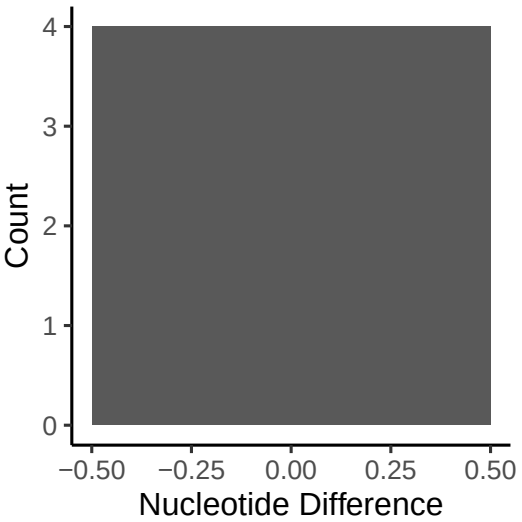
IGHV5−10−1*03

397 sequences assigned
283 (71.3%) exact matches, in which:
281 unique CDR3
6 unique J



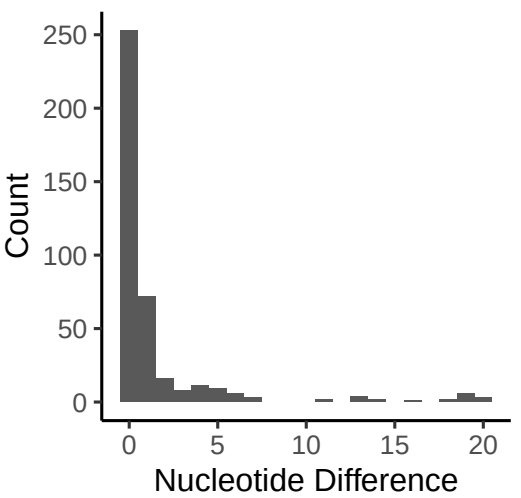
IGHV7−4−1*01

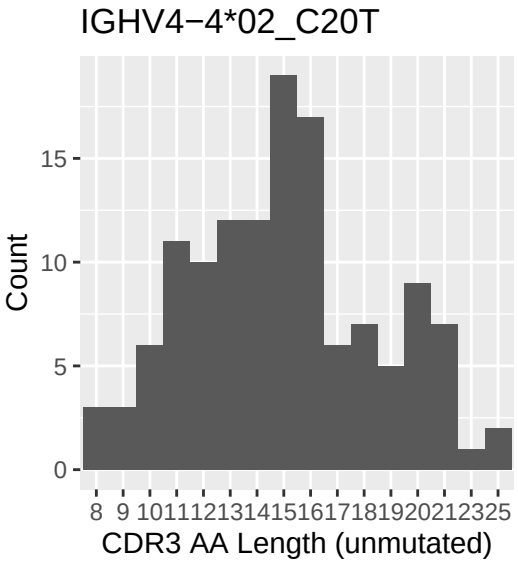
4 sequences assigned
4 (100%) exact matches, in which:
4 unique CDR3
3 unique J

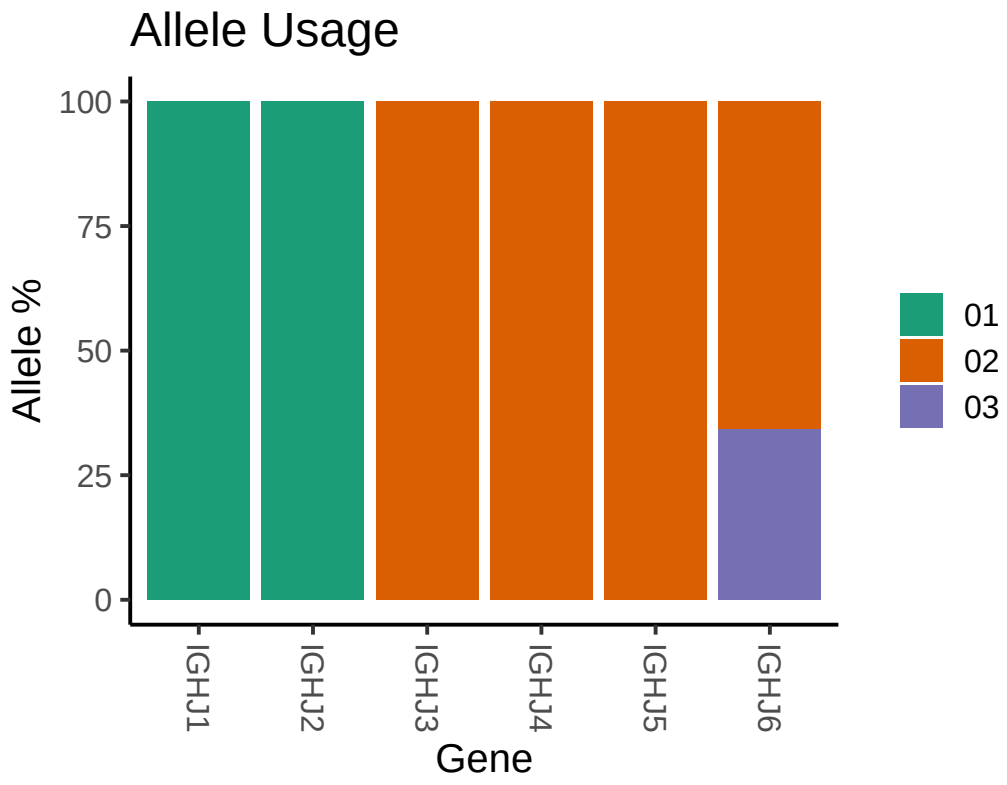


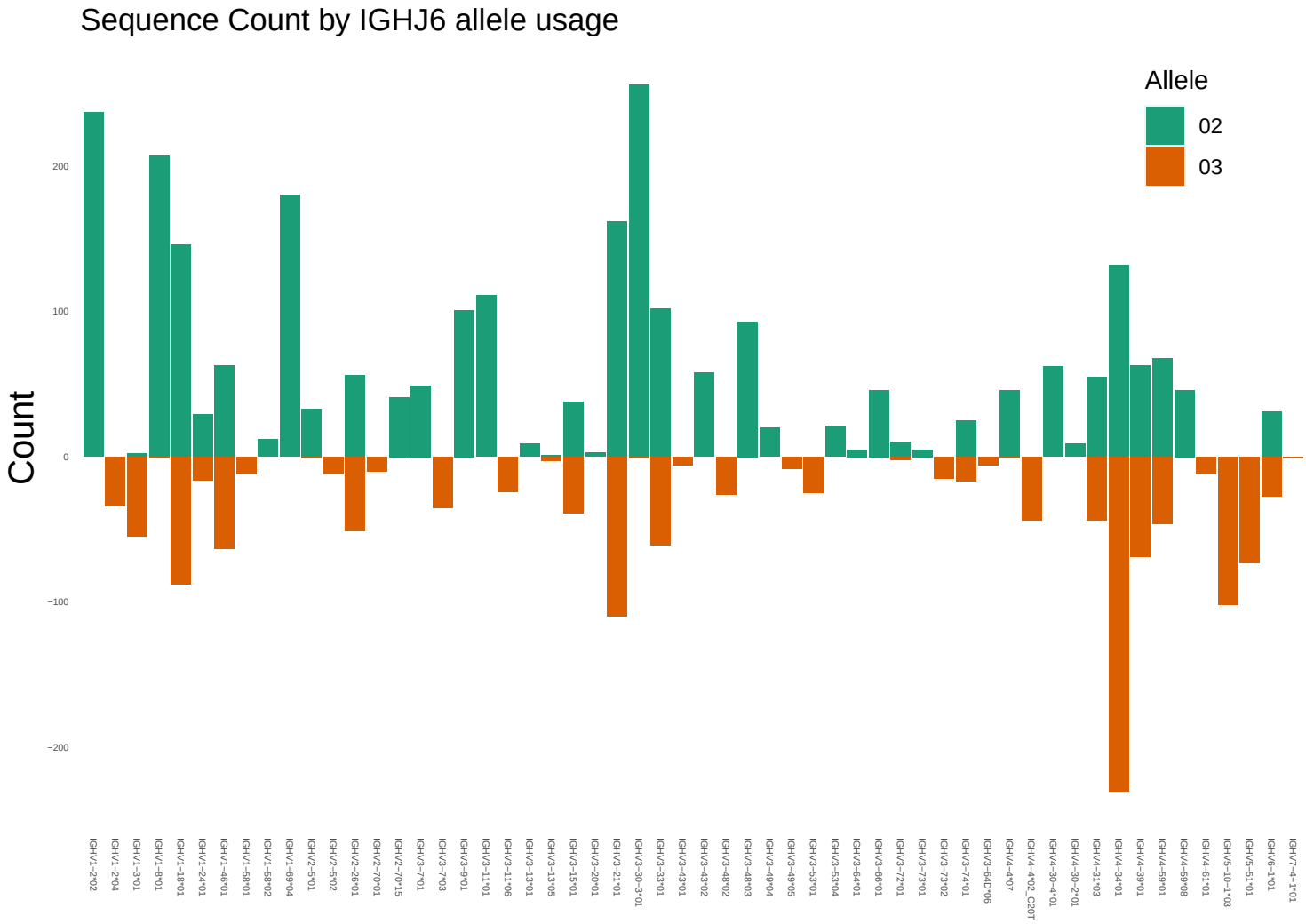
IGHV5−51*01

404 sequences assigned
253 (62.6%) exact matches, in which:
248 unique CDR3
6 unique J




IGHV4−4*02_C20T
Count
0
5
10
15
8 9 10 11 12 13 14 15 16 17 18 19 20 21 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
Allele
02
03
Count
200
100
0
−100
−200
IGHV1−2*02
IGHV1−2*04
IGHV1−3*01
IGHV1−8*01
IGHV1−18*01
IGHV1−24*01
IGHV1−46*01
IGHV1−58*01
IGHV1−58*02
IGHV1−69*04
IGHV2−5*01
IGHV2−5*02
IGHV2−26*01
IGHV2−70*01
IGHV2−70*15
IGHV3−7*01
IGHV3−7*03
IGHV3−9*01
IGHV3−11*01
IGHV3−11*06
IGHV3−13*01
IGHV3−13*05
IGHV3−15*01
IGHV3−20*01
IGHV3−21*01
IGHV3−30−3*01
IGHV3−33*01
IGHV3−43*01
IGHV3−43*02
IGHV3−48*02
IGHV3−48*03
IGHV3−49*04
IGHV3−49*05
IGHV3−53*01
IGHV3−53*04
IGHV3−64*01
IGHV3−66*01
IGHV3−72*01
IGHV3−73*01
IGHV3−73*02
IGHV3−74*01
IGHV3−6AD*06
IGHV4−4*07
IGHV4−4*02_C20T
IGHV4−30−4*01
IGHV4−30−2*01
IGHV4−31*03
IGHV4−34*01
IGHV4−39*01
IGHV4−59*01
IGHV4−59*08
IGHV4−61*01
IGHV5−10−1*03
IGHV5−51*01
IGHV6−1*01
IGHV7−4−1*01

Warning − no inferred sequences found.

Warning − no inferred sequences found.

Warning − no inferred sequences found.