

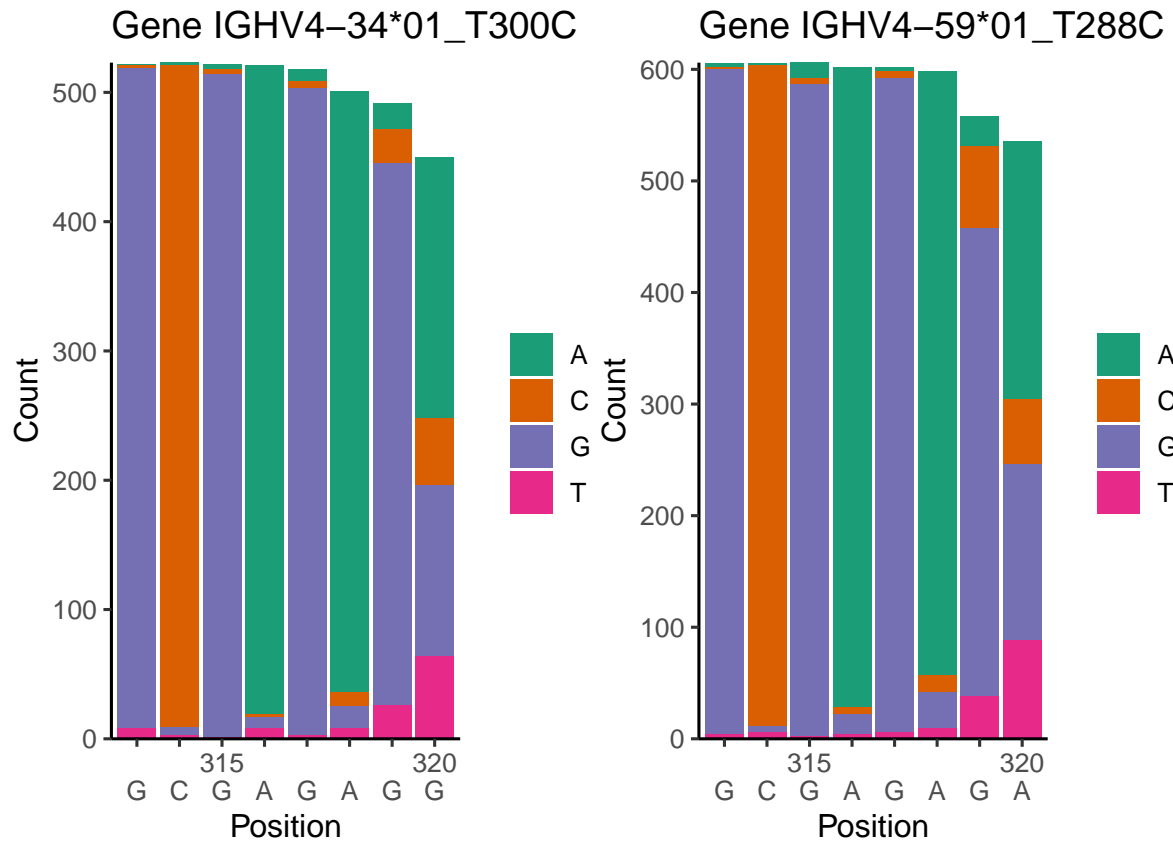
OGRDBstats Report

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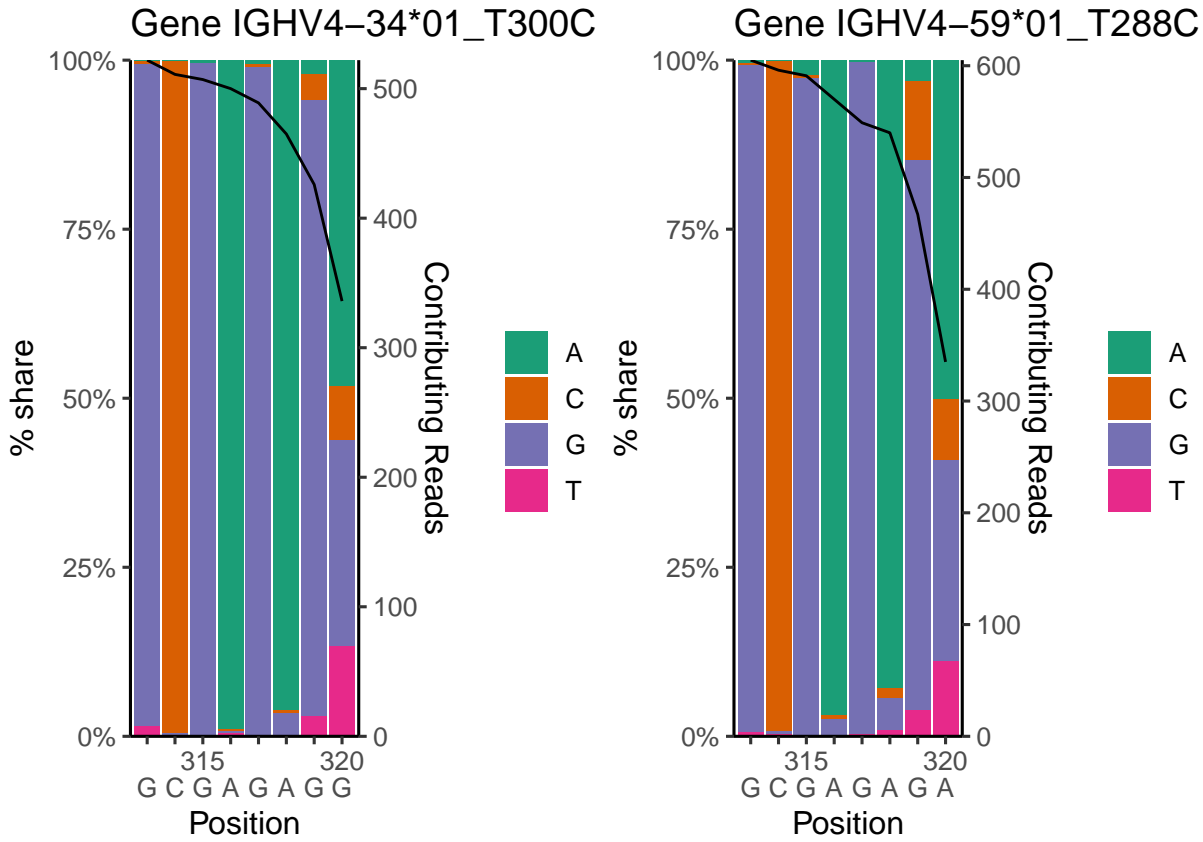
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1 Novel sequence analysis

1.1 End-nucleotide composition

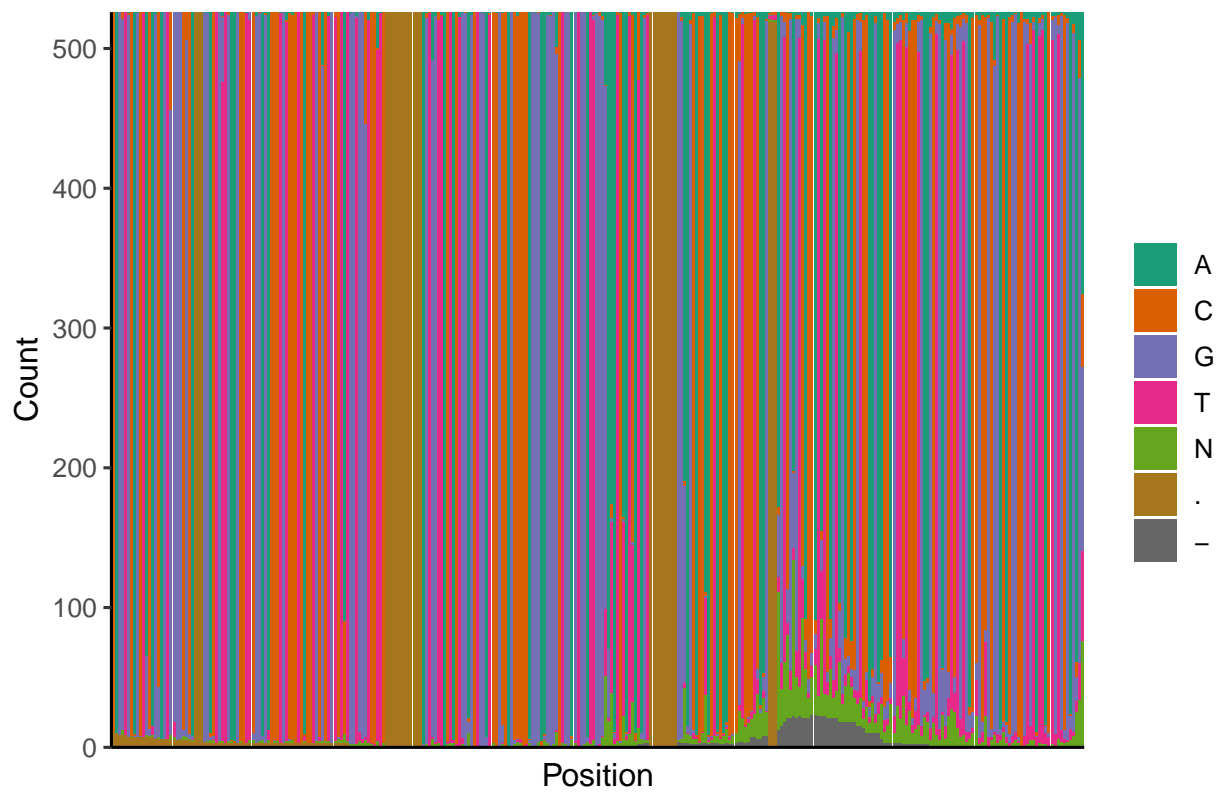


1.2 Per-nucleotide consensus where previous nucleotides match the consensus

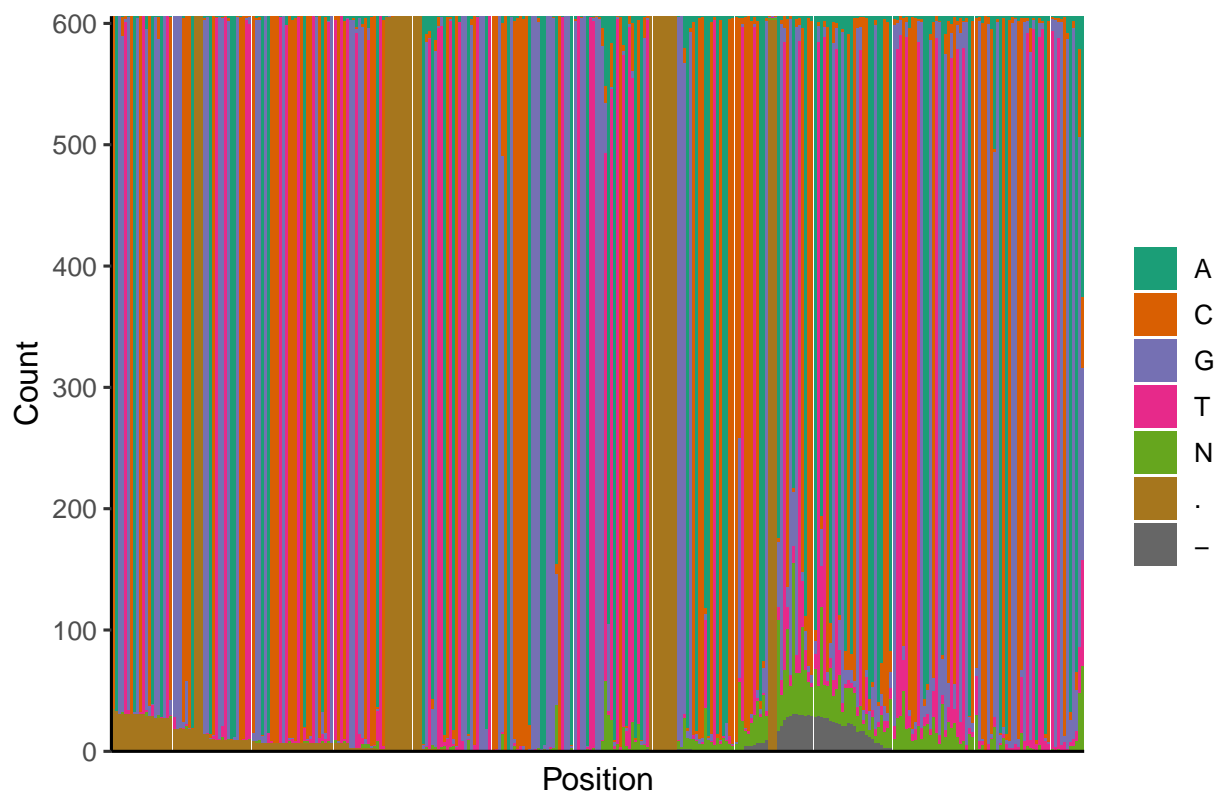


1.3 Whole-sequence composition of each assigned read

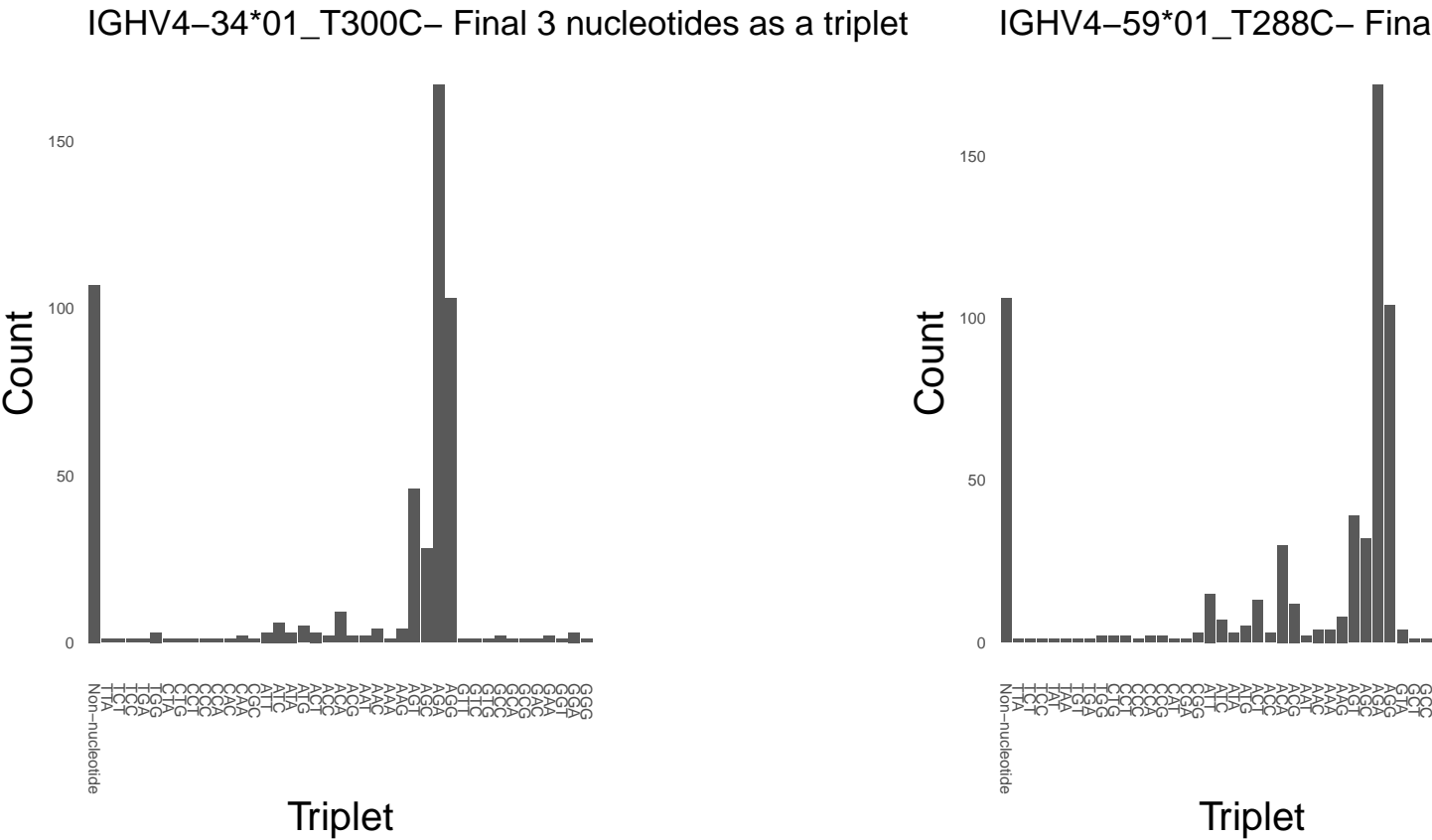
Gene IGHV4-34*01_T300C



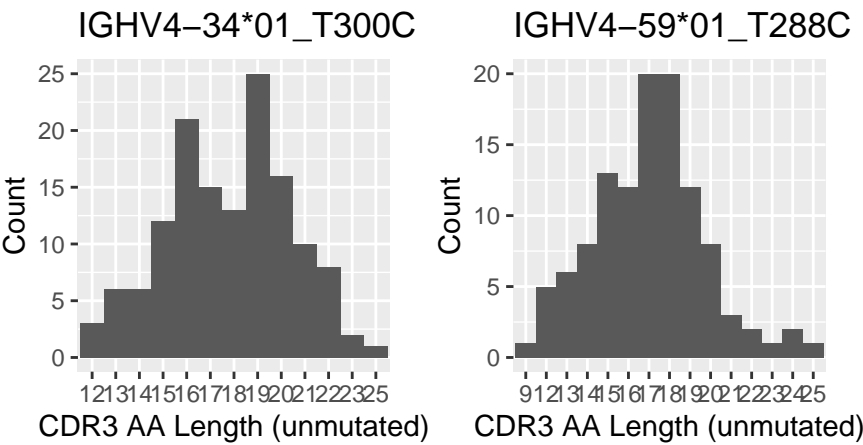
Gene IGHV4-59*01_T288C



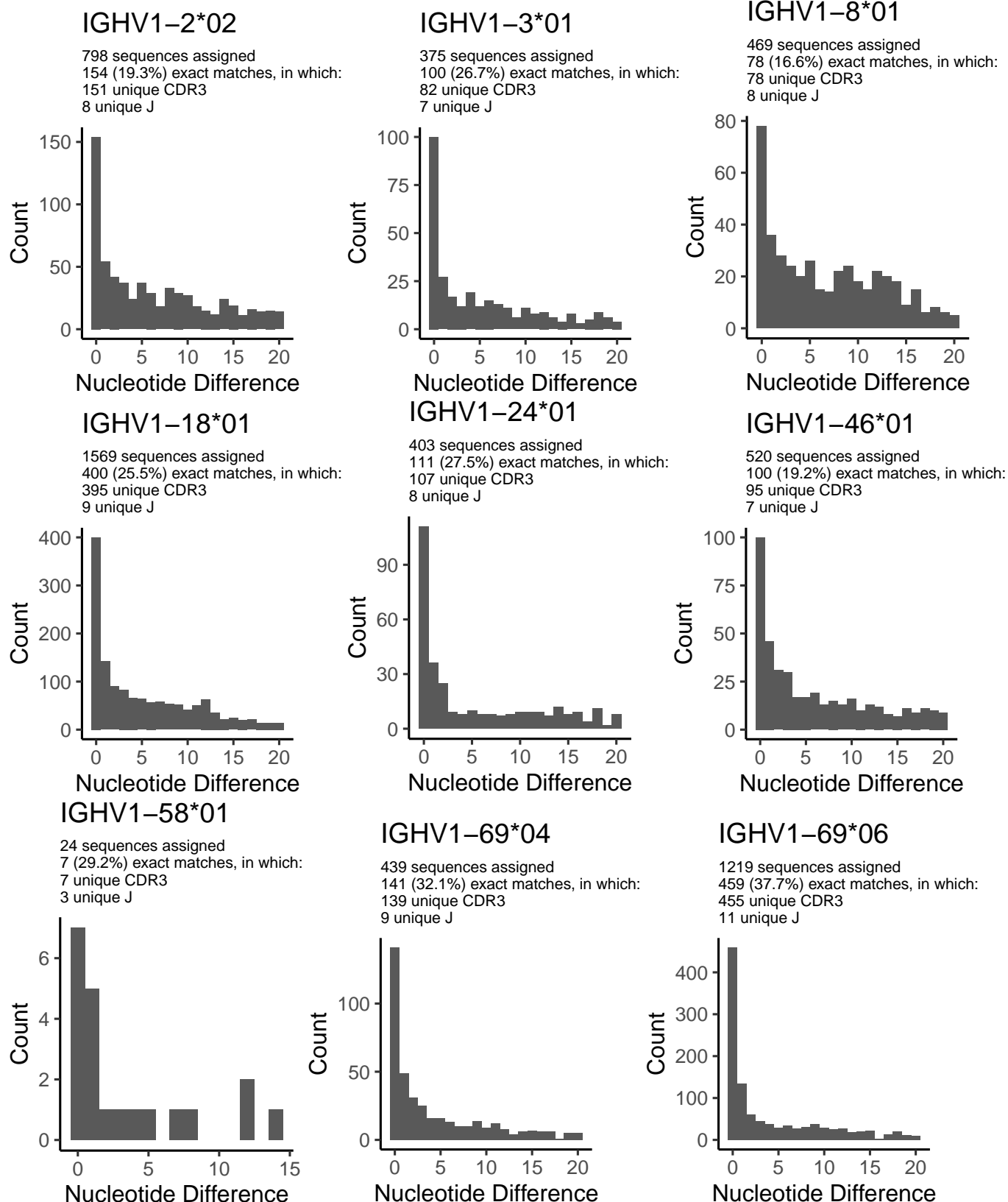
1.4 Final three nucleotides: frequency of each observed triplet



1.5 CDR3 length distribution, in assignments to novel alleles

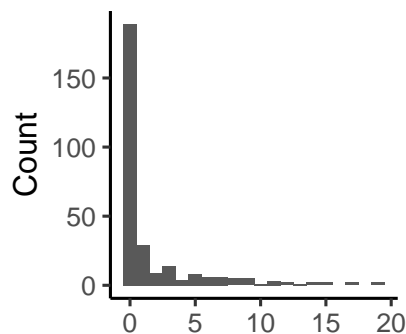


2 Variation from germline, in assignments to each allele



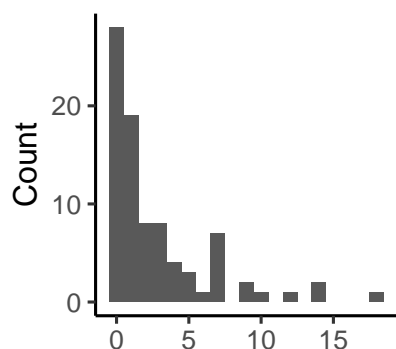
IGHV2-5*02

324 sequences assigned
189 (58.3%) exact matches, in which:
185 unique CDR3
8 unique J



Nucleotide Difference
IGHV2-70*01

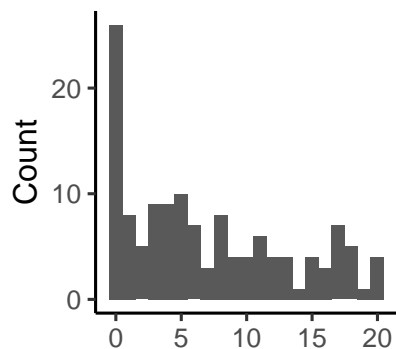
97 sequences assigned
28 (28.9%) exact matches, in which:
27 unique CDR3
4 unique J



Nucleotide Difference

IGHV3-11*01

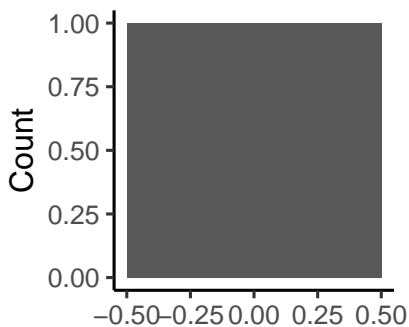
153 sequences assigned
26 (17%) exact matches, in which:
26 unique CDR3
6 unique J



Nucleotide Difference

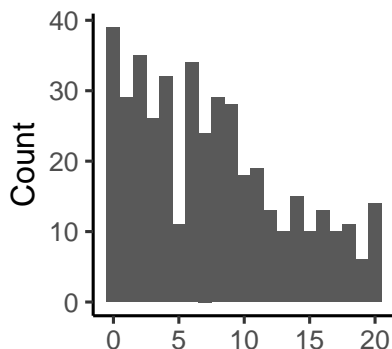
IGHV2-10*01

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



Nucleotide Difference
IGHV3-7*01

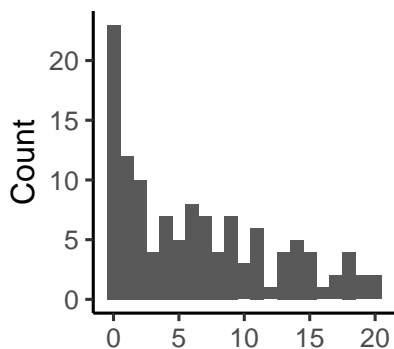
556 sequences assigned
39 (7%) exact matches, in which:
39 unique CDR3
7 unique J



Nucleotide Difference

IGHV3-11*05

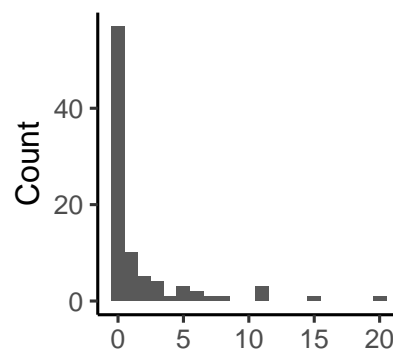
140 sequences assigned
23 (16.4%) exact matches, in which:
23 unique CDR3
5 unique J



Nucleotide Difference

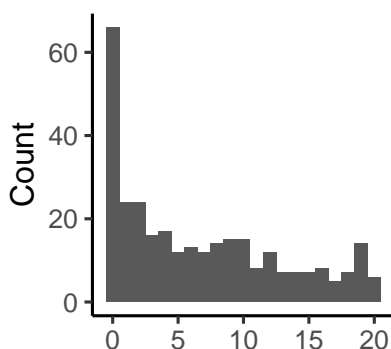
IGHV2-26*01

102 sequences assigned
57 (55.9%) exact matches, in which:
55 unique CDR3
6 unique J



Nucleotide Difference
IGHV3-9*01

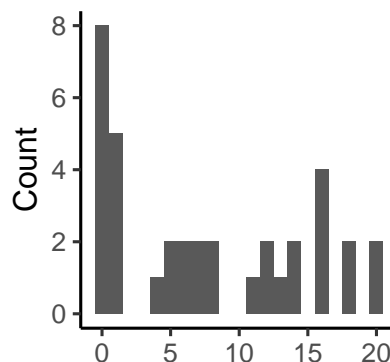
352 sequences assigned
66 (18.8%) exact matches, in which:
66 unique CDR3
5 unique J



Nucleotide Difference

IGHV3-13*01

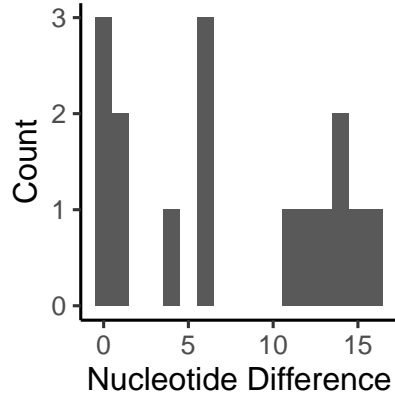
37 sequences assigned
8 (21.6%) exact matches, in which:
8 unique CDR3
3 unique J



Nucleotide Difference

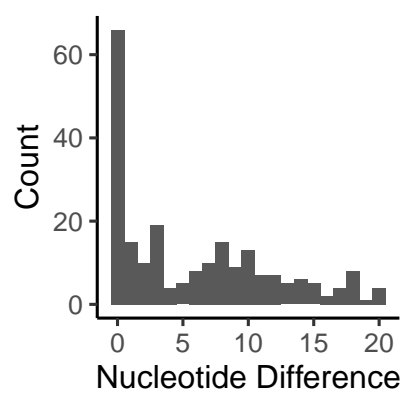
IGHV3-13*04

17 sequences assigned
3 (17.6%) exact matches, in which:
3 unique CDR3
2 unique J



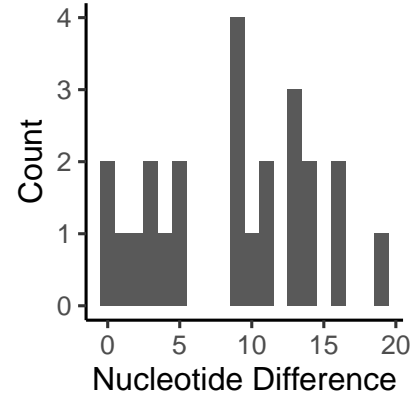
IGHV3-15*01

254 sequences assigned
66 (26%) exact matches, in which:
65 unique CDR3
6 unique J



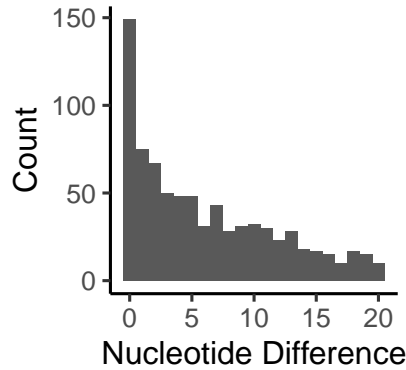
IGHV3-20*01

29 sequences assigned
2 (6.9%) exact matches, in which:
2 unique CDR3
2 unique J



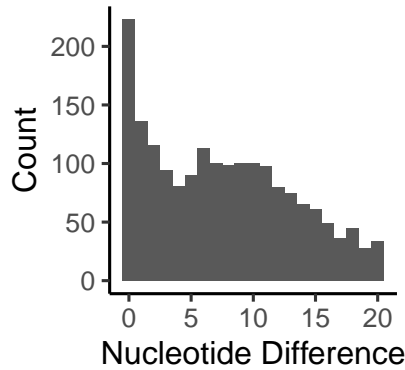
IGHV3-21*01

861 sequences assigned
149 (17.3%) exact matches, in which:
148 unique CDR3
9 unique J



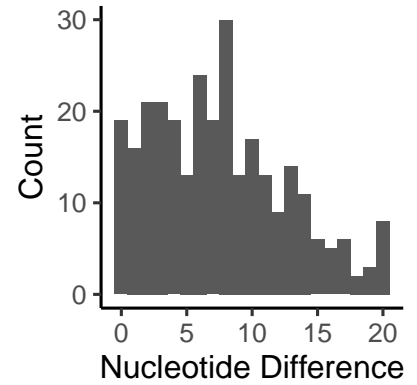
IGHV3-23*01

2110 sequences assigned
223 (10.6%) exact matches, in which:
221 unique CDR3
8 unique J



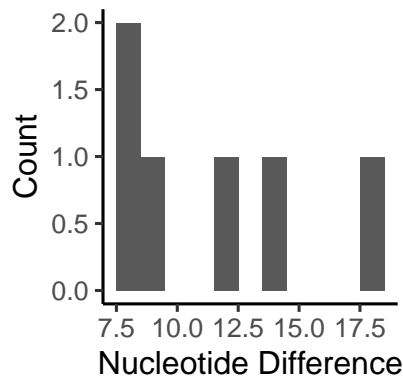
IGHV3-30*03

316 sequences assigned
19 (6%) exact matches, in which:
19 unique CDR3
4 unique J



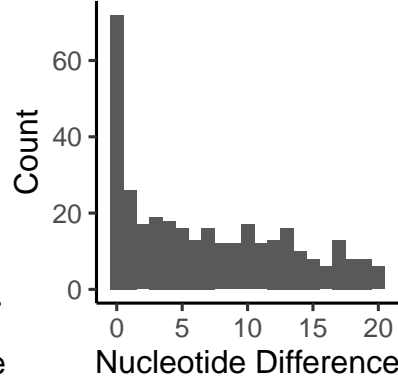
IGHV3-30-3*03

10 sequences assigned
No exact matches.



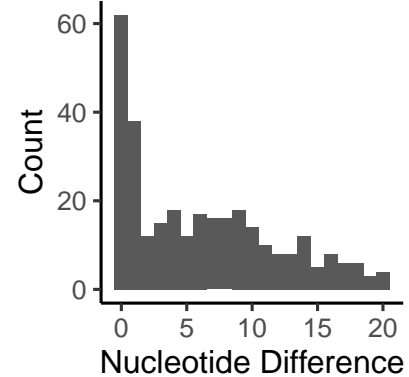
IGHV3-30*04

376 sequences assigned
72 (19.1%) exact matches, in which:
70 unique CDR3
8 unique J



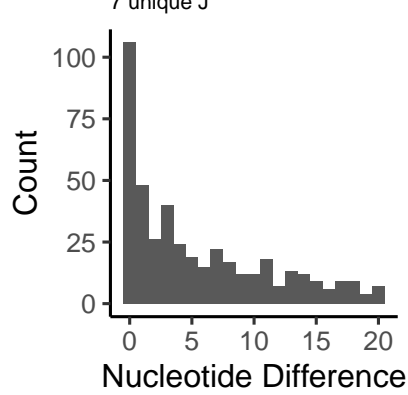
IGHV3-30*18

353 sequences assigned
62 (17.6%) exact matches, in which:
61 unique CDR3
8 unique J



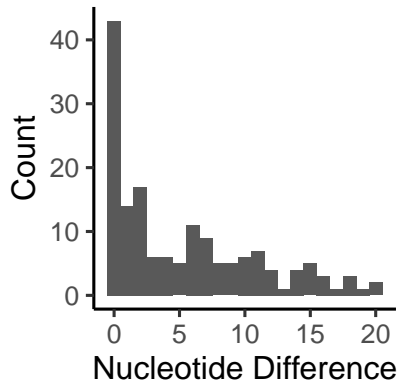
IGHV3-33*01

497 sequences assigned
106 (21.3%) exact matches, in which:
105 unique CDR3
7 unique J



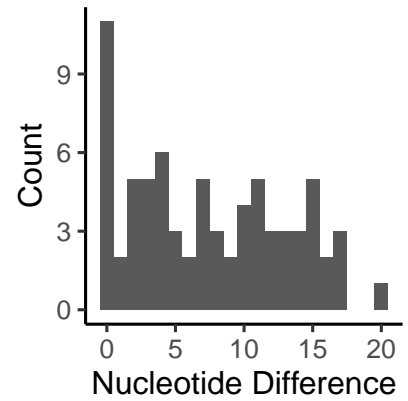
IGHV3-33*06

169 sequences assigned
43 (25.4%) exact matches, in which:
42 unique CDR3
7 unique J



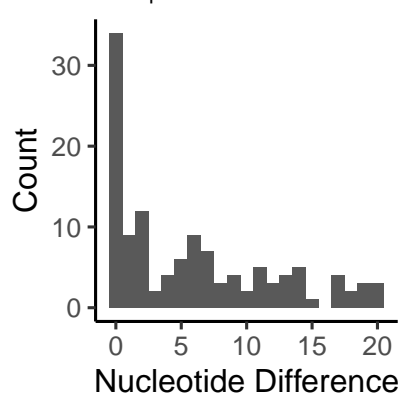
IGHV3-43*01

86 sequences assigned
11 (12.8%) exact matches, in which:
11 unique CDR3
3 unique J



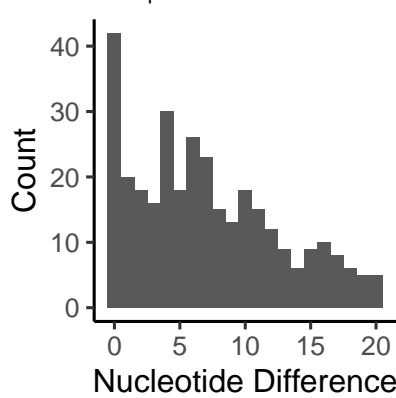
IGHV3-48*02

130 sequences assigned
34 (26.2%) exact matches, in which:
34 unique CDR3
4 unique J



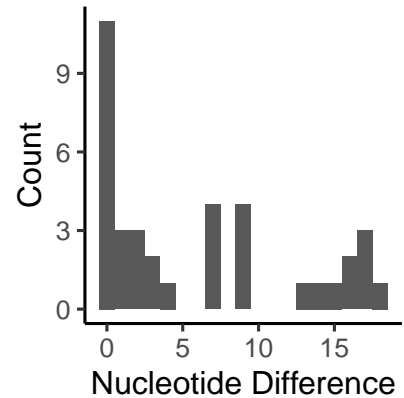
IGHV3-48*04

358 sequences assigned
42 (11.7%) exact matches, in which:
42 unique CDR3
9 unique J



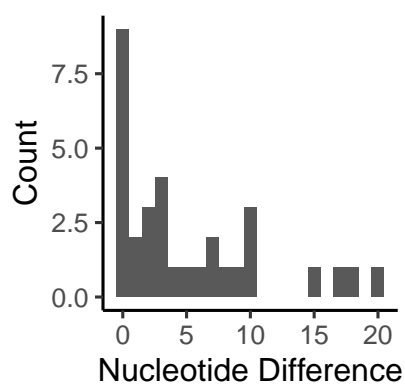
IGHV3-49*03

45 sequences assigned
11 (24.4%) exact matches, in which:
11 unique CDR3
4 unique J



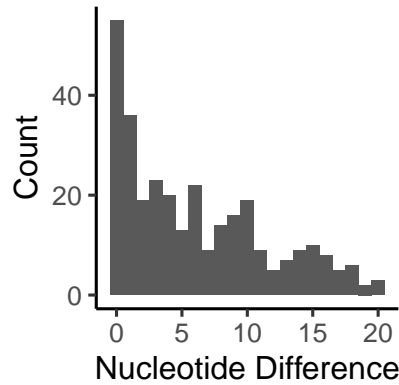
IGHV3-49*05

36 sequences assigned
9 (25%) exact matches, in which:
9 unique CDR3
4 unique J



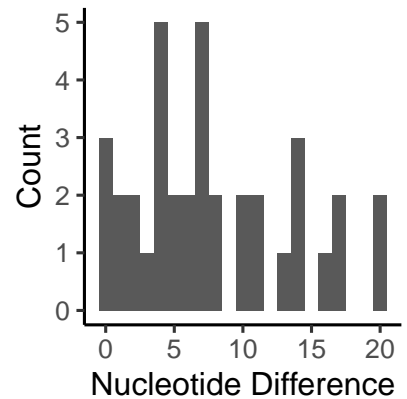
IGHV3-53*01

352 sequences assigned
55 (15.6%) exact matches, in which:
55 unique CDR3
7 unique J



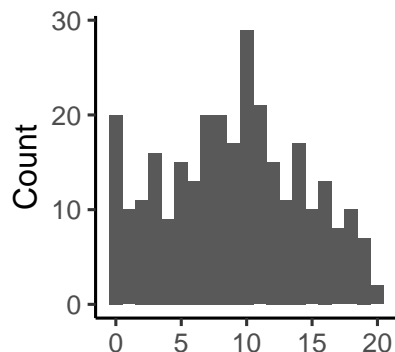
IGHV3-64*01

54 sequences assigned
3 (5.6%) exact matches, in which:
3 unique CDR3
1 unique J



IGHV3-66*01

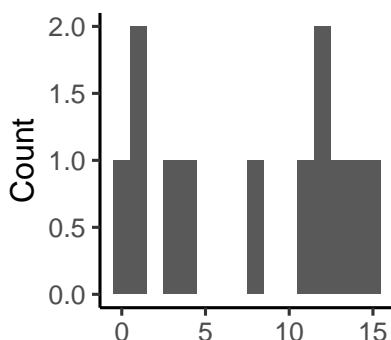
338 sequences assigned
20 (5.9%) exact matches, in which:
20 unique CDR3
6 unique J



Nucleotide Difference

IGHV3-72*01

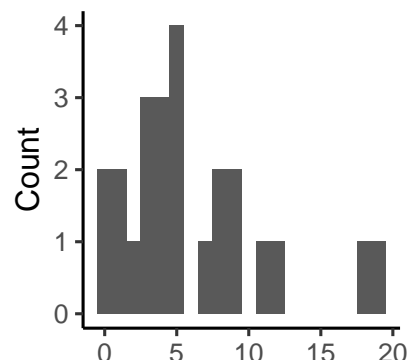
14 sequences assigned
1 (7.1%) exact matches, in which:
1 unique CDR3
0 unique J



Nucleotide Difference

IGHV3-73*01

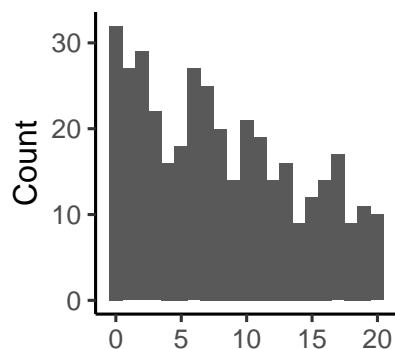
31 sequences assigned
2 (6.5%) exact matches, in which:
2 unique CDR3
2 unique J



Nucleotide Difference

IGHV3-74*01

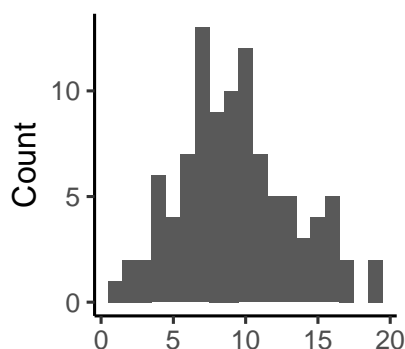
482 sequences assigned
32 (6.6%) exact matches, in which:
30 unique CDR3
6 unique J



Nucleotide Difference

IGHV3-NL1*01

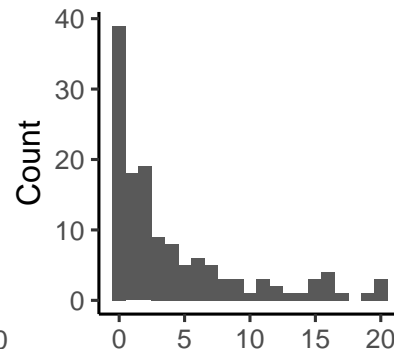
118 sequences assigned
No exact matches.



Nucleotide Difference

IGHV4-4*07

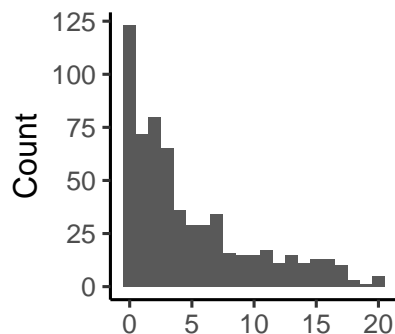
163 sequences assigned
39 (23.9%) exact matches, in which:
35 unique CDR3
7 unique J



Nucleotide Difference

IGHV4-31*03

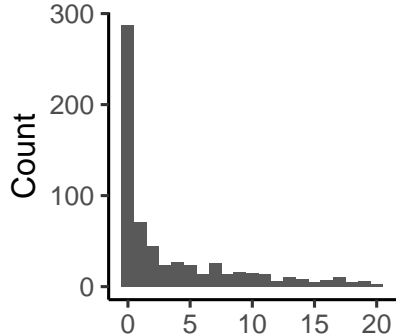
694 sequences assigned
123 (17.7%) exact matches, in which:
121 unique CDR3
9 unique J



Nucleotide Difference

IGHV4-34*01

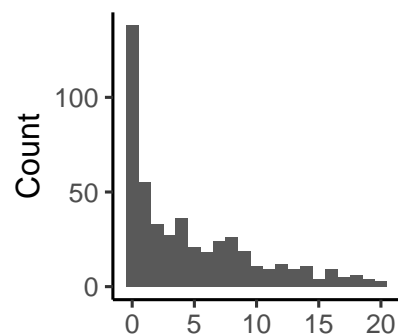
692 sequences assigned
287 (41.5%) exact matches, in which:
282 unique CDR3
10 unique J



Nucleotide Difference

IGHV4-34*01_T300C

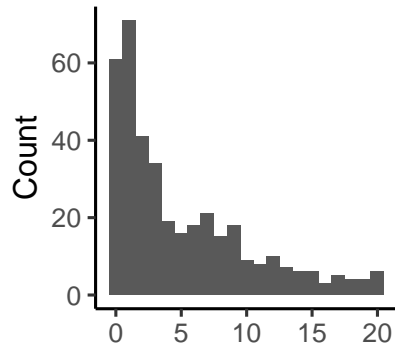
526 sequences assigned
138 (26.2%) exact matches, in which:
138 unique CDR3
8 unique J



Nucleotide Difference

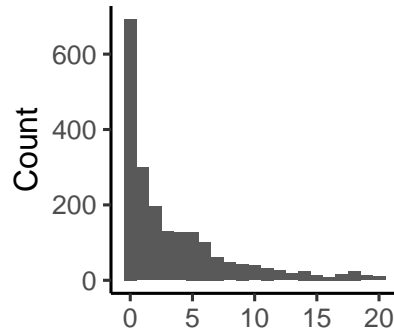
IGHV4-38-2*02

427 sequences assigned
61 (14.3%) exact matches, in which:
55 unique CDR3
7 unique J



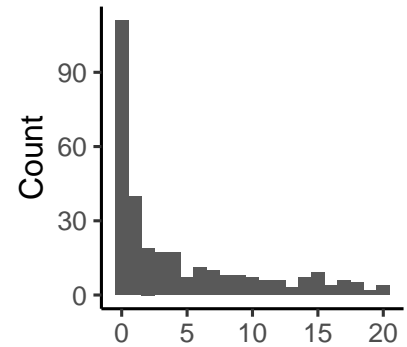
IGHV4-39*07

2229 sequences assigned
693 (31.1%) exact matches, in which:
691 unique CDR3
11 unique J



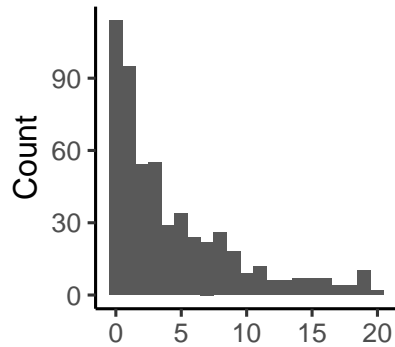
IGHV4-59*01

340 sequences assigned
111 (32.6%) exact matches, in which:
108 unique CDR3
8 unique J



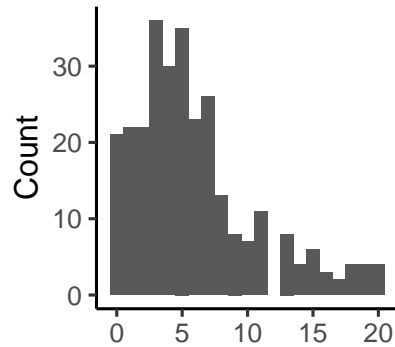
IGHV4-59*01_T288C

606 sequences assigned
114 (18.8%) exact matches, in which:
114 unique CDR3
10 unique J



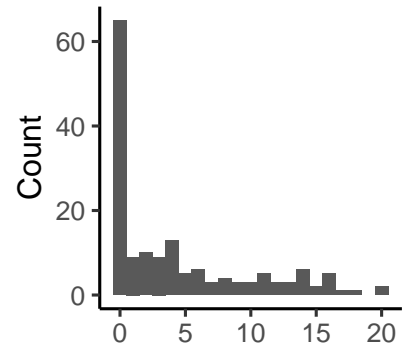
IGHV4-61*01

322 sequences assigned
21 (6.5%) exact matches, in which:
21 unique CDR3
4 unique J



IGHV5-10-1*01

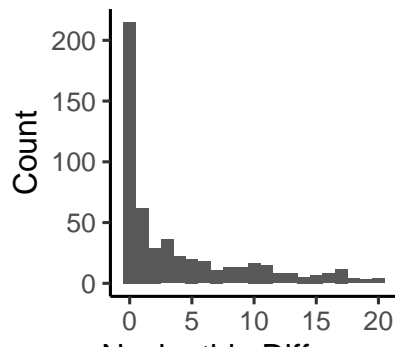
171 sequences assigned
65 (38%) exact matches, in which:
61 unique CDR3
9 unique J



IGHV5-51*01

IGHV5-51*01

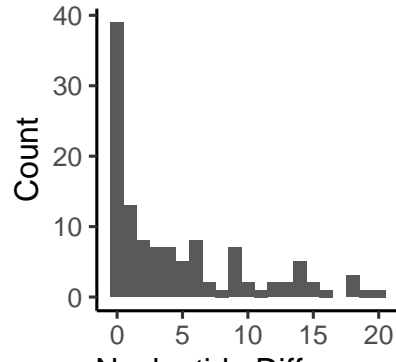
574 sequences assigned
215 (37.5%) exact matches, in which:
209 unique CDR3
10 unique J



IGHV6-1*01

IGHV6-1*01

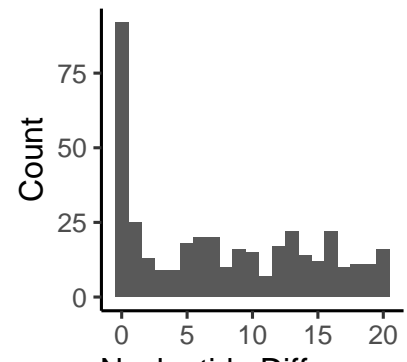
124 sequences assigned
39 (31.5%) exact matches, in which:
39 unique CDR3
7 unique J



IGHV7-4-1*02

IGHV7-4-1*02

540 sequences assigned
92 (17%) exact matches, in which:
91 unique CDR3
6 unique J



3 Allele usage in potential haplotype anchor genes

4 Configuration settings

Repertoire file: TWO01A_naive_genotyped.tsv

Germline reference file: IMGT_REF_GAPPED.fasta

Novel allele file: TWO01A_naive_novel_ungapped.fasta

Species: Homosapiens

Chain: IGHV

Segment: V

Inferred gene IGHV4 34 01_T300C gapped using IGHV4 34 01: CAGGTGCAGCTACAGCAGTGGGGCGCA...GGACTGTTT

Inferred gene IGHV4 59 01_T288C gapped using IGHV4 59 01: CAGGTGCAGCTGCAGGAGTCGGGC-
CCA...GGACTGGTGAAGCCTTCGGAGACCCTGTCCCTCACCTGCACTGTCTCTGGTGGCTCCATC.....AGT

Warning: IGHV3 30 3 03, IGHV3 30 04 have identical germline sequences.

Haplotyping analysis is based on gene IGHJ6 alleles 02:03