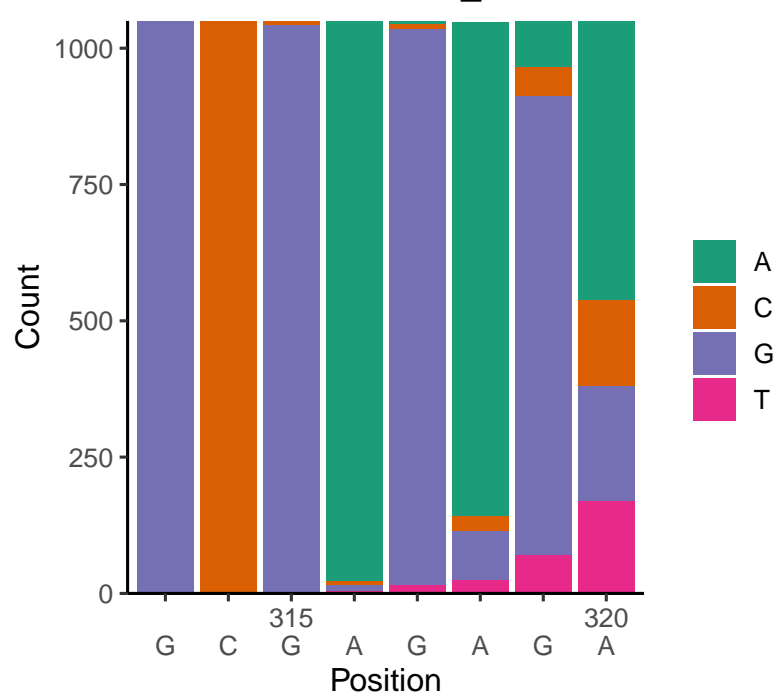
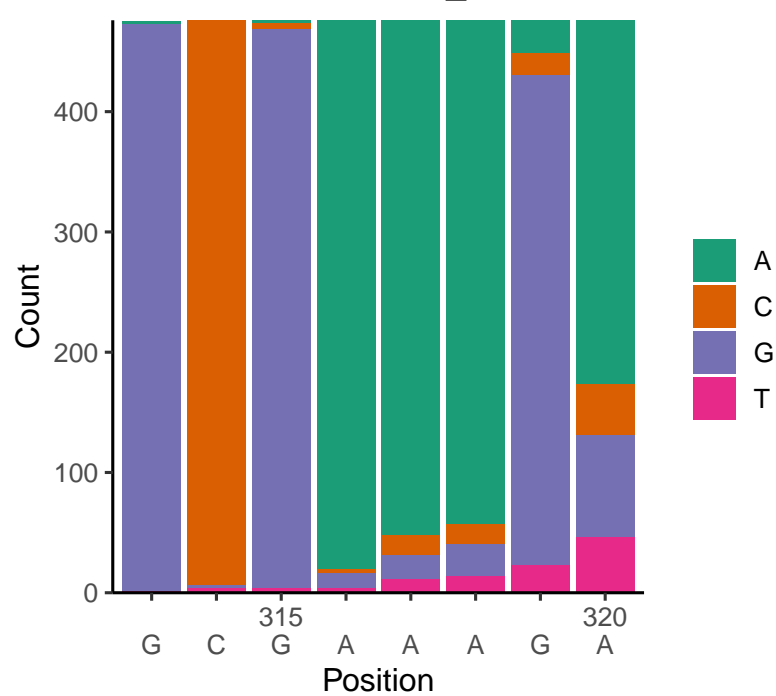


Gene IGHV1-18*01_A190G



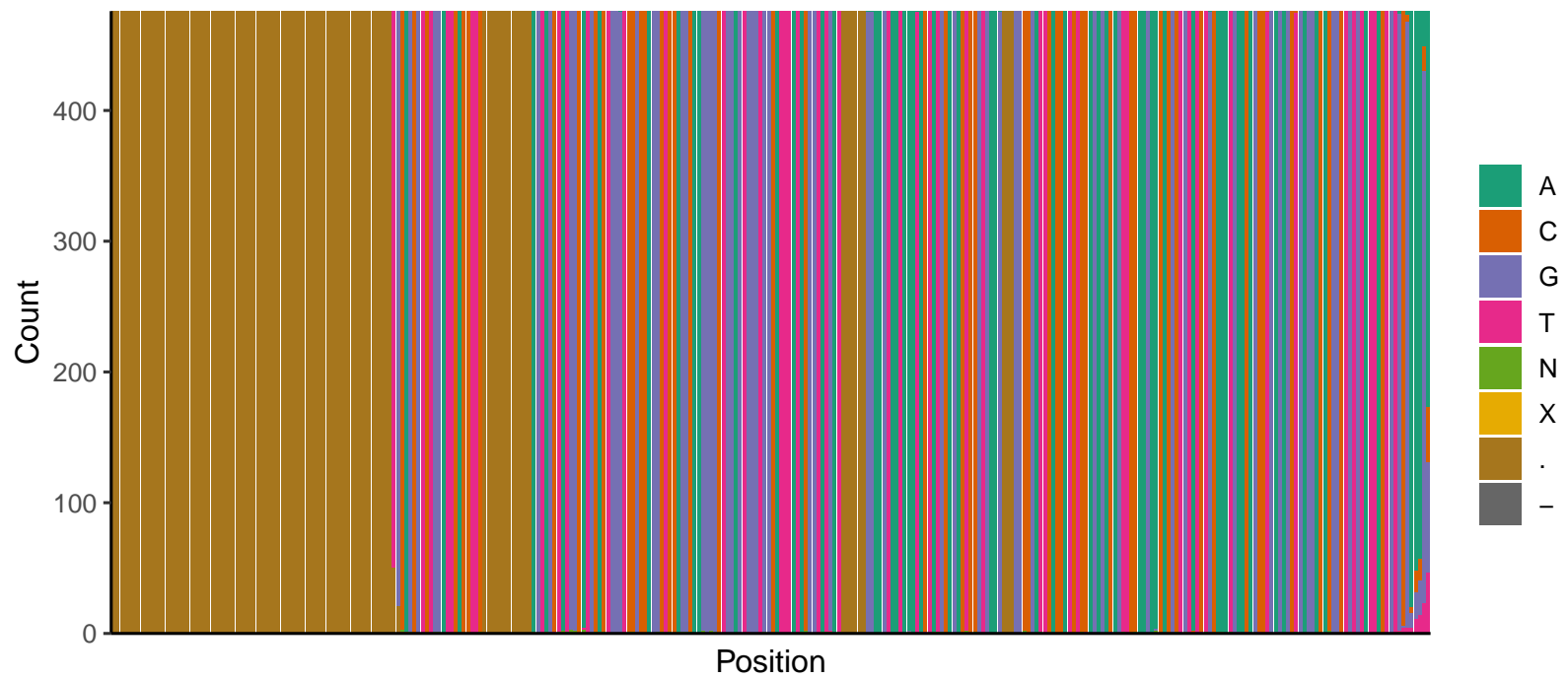
Gene IGHV3-30*02_A245G



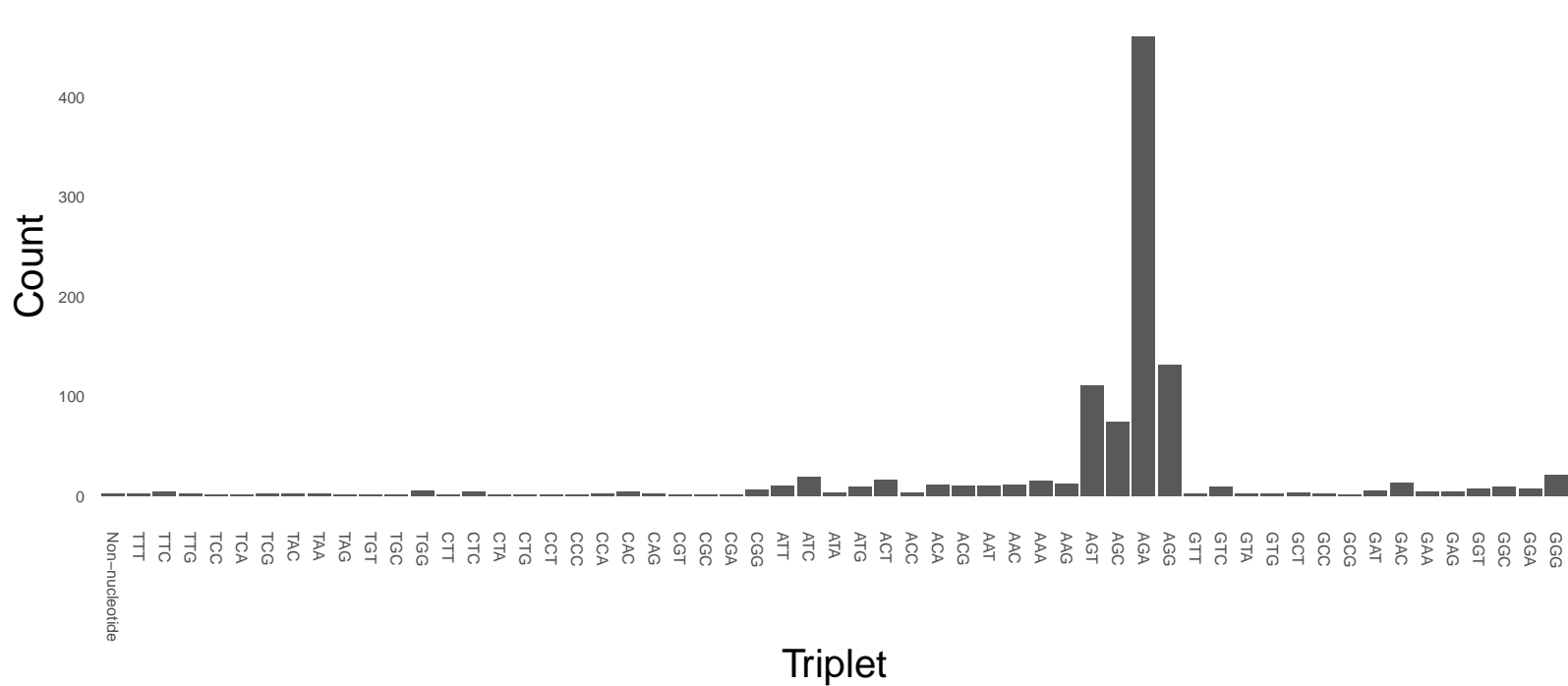
Gene IGHV1-18*01_A190G



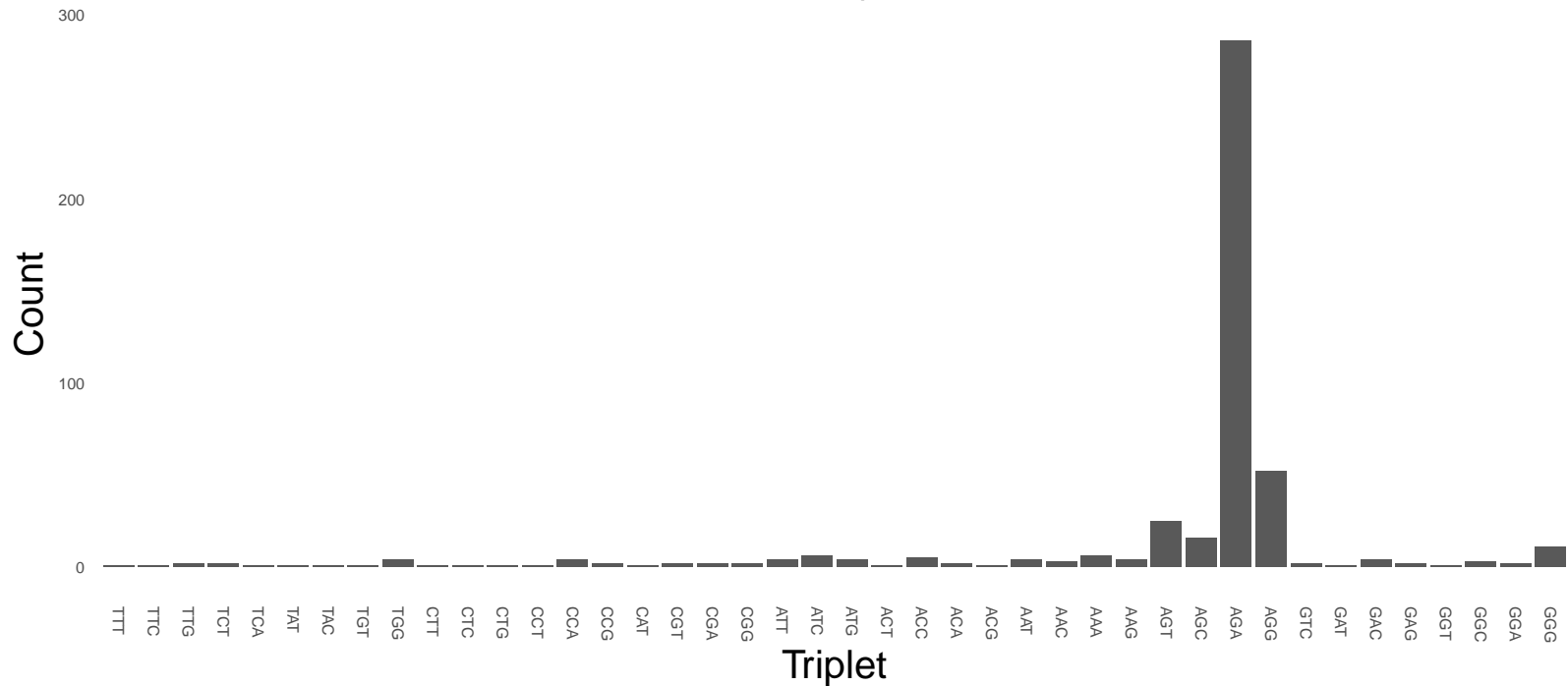
Gene IGHV3-30*02_A245G



IGHV1-18*01_A190G- Final 3 nucleotides as a triplet

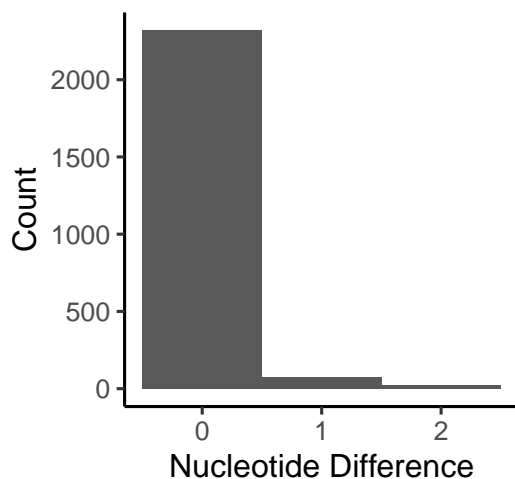


IGHV3-30*02_A245G- Final 3 nucleotides as a triplet



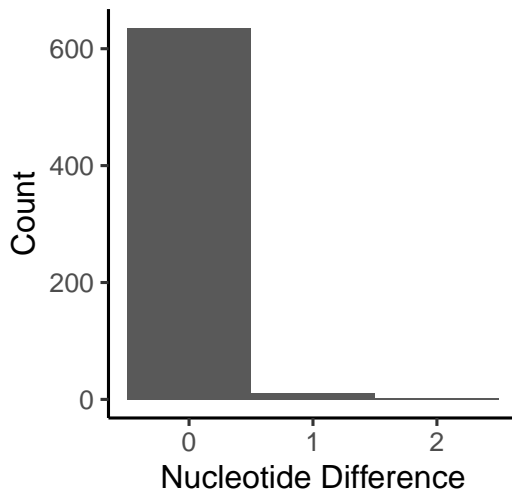
IGHV1-2*02

2417 sequences assigned
2319 (95.9%) exact matches, in which:
2296 unique CDR3
7 unique J



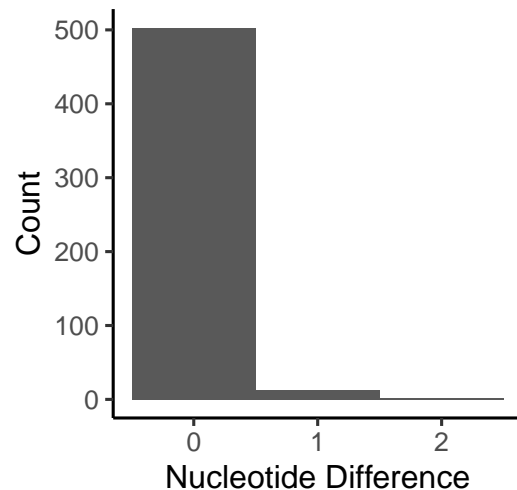
IGHV1-8*02

650 sequences assigned
636 (97.8%) exact matches, in which:
628 unique CDR3
7 unique J



IGHV1-24*01

518 sequences assigned
503 (97.1%) exact matches, in which:
497 unique CDR3
7 unique J



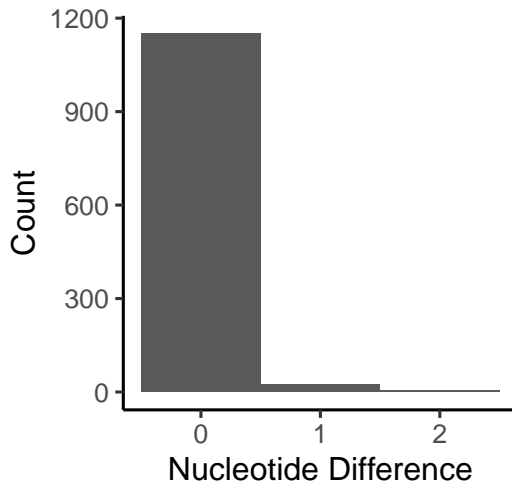
IGHV1-3*02

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



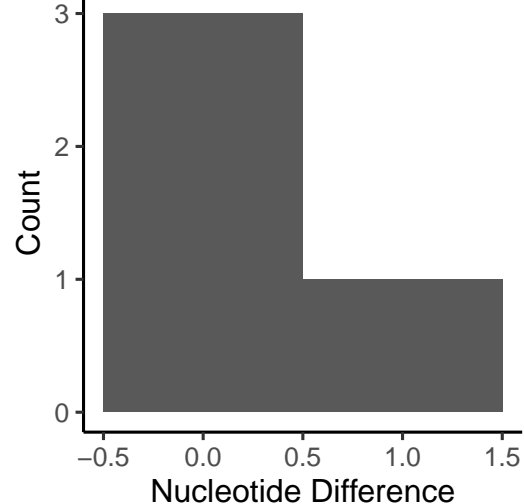
IGHV1-18*01

1179 sequences assigned
1150 (97.5%) exact matches, in which:
1141 unique CDR3
6 unique J



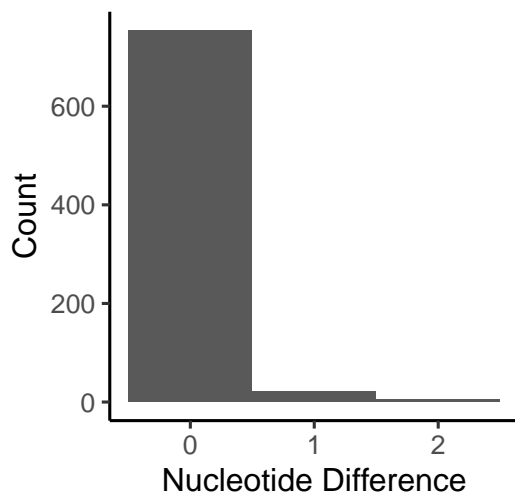
IGHV1-45*02

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



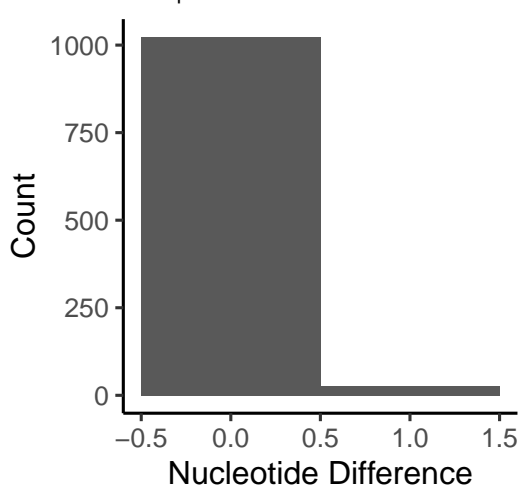
IGHV1-8*01

780 sequences assigned
754 (96.7%) exact matches, in which:
744 unique CDR3
6 unique J



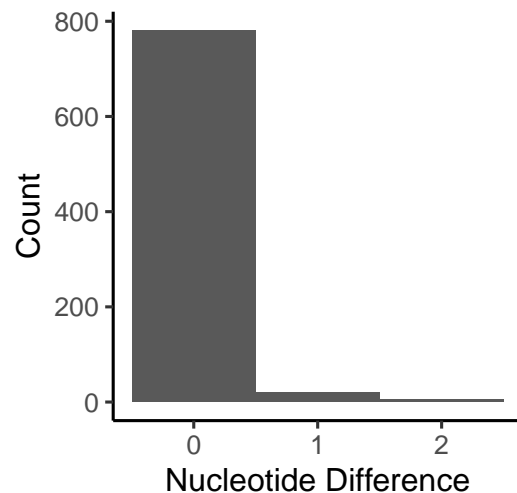
IGHV1-18*01_A190G

1050 sequences assigned
1023 (97.4%) exact matches, in which:
1013 unique CDR3
6 unique J



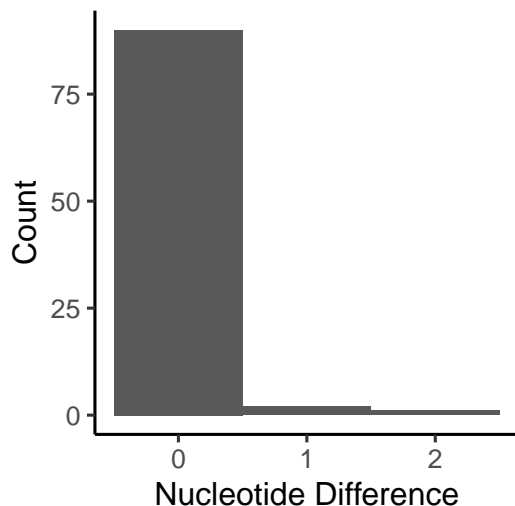
IGHV1-46*01

806 sequences assigned
781 (96.9%) exact matches, in which:
778 unique CDR3
7 unique J



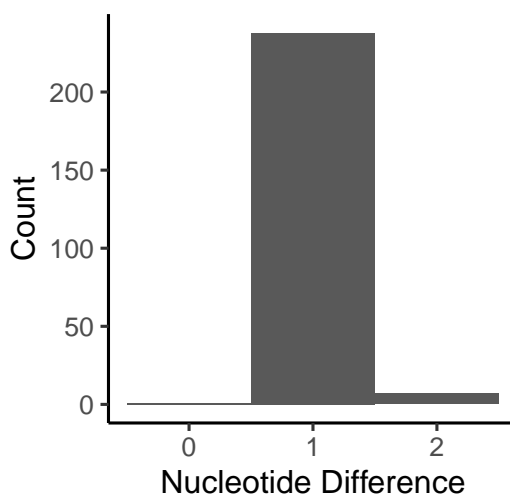
IGHV1–58*02

93 sequences assigned
90 (96.8%) exact matches, in which:
89 unique CDR3
7 unique J



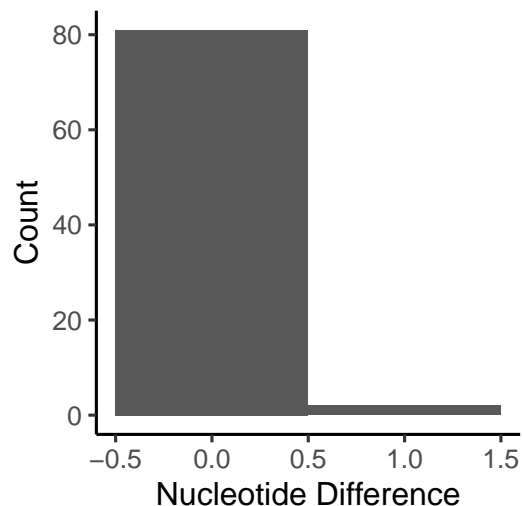
IGHV1–69*04_09

246 sequences assigned
1 (0.4%) exact matches, in which:
1 unique CDR3
1 unique J



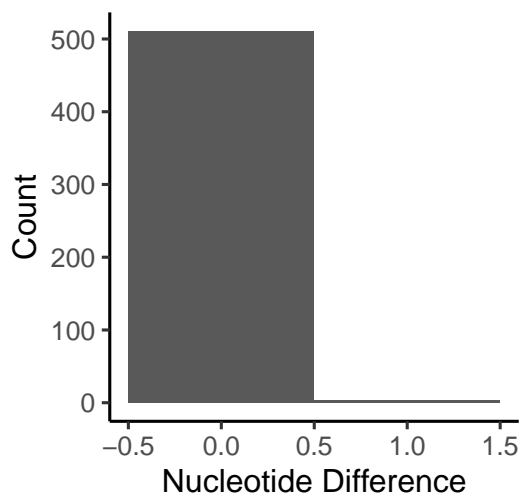
IGHV2–26*01

83 sequences assigned
81 (97.6%) exact matches, in which:
81 unique CDR3
7 unique J



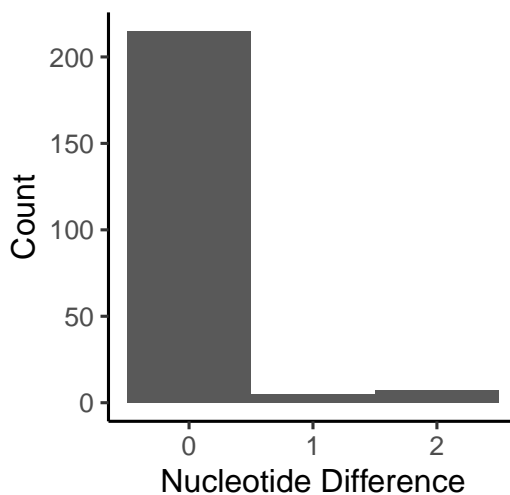
IGHV1–69*02

515 sequences assigned
511 (99.2%) exact matches, in which:
504 unique CDR3
7 unique J



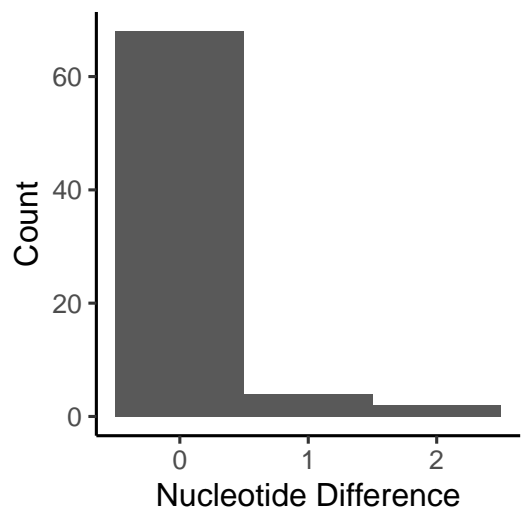
IGHV2–5*01

227 sequences assigned
215 (94.7%) exact matches, in which:
214 unique CDR3
6 unique J



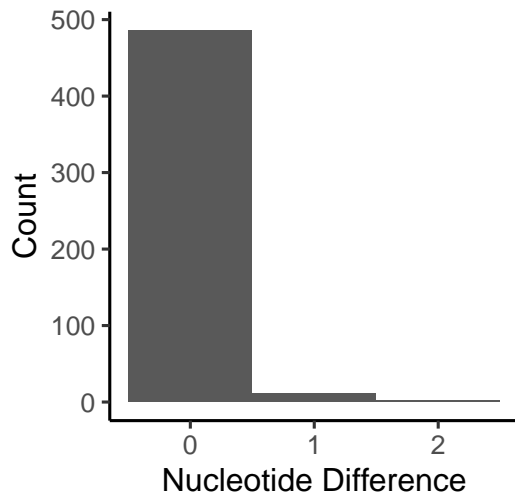
IGHV2–70*11_15

74 sequences assigned
68 (91.9%) exact matches, in which:
68 unique CDR3
5 unique J



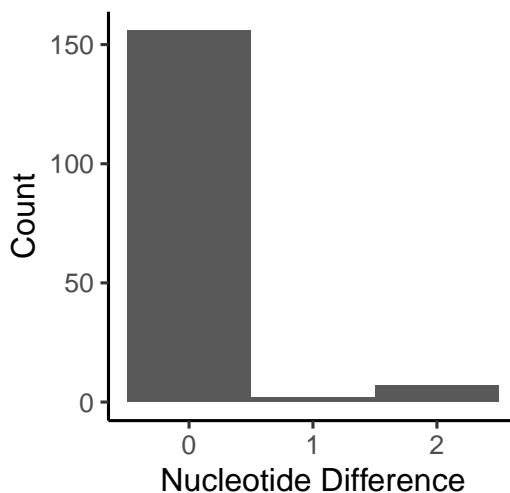
IGHV1–69*01_12_13

499 sequences assigned
486 (97.4%) exact matches, in which:
484 unique CDR3
6 unique J



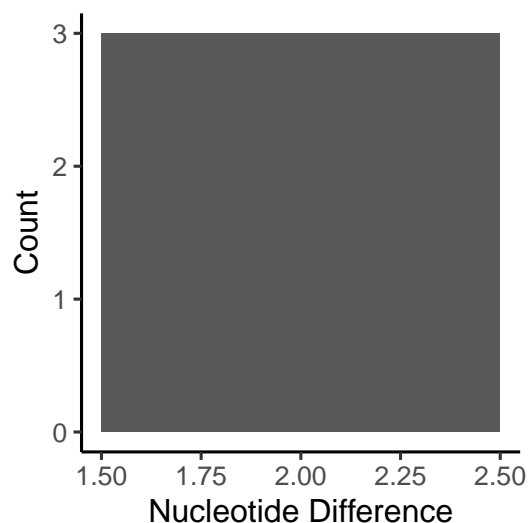
IGHV2–5*05_09

165 sequences assigned
156 (94.5%) exact matches, in which:
154 unique CDR3
6 unique J



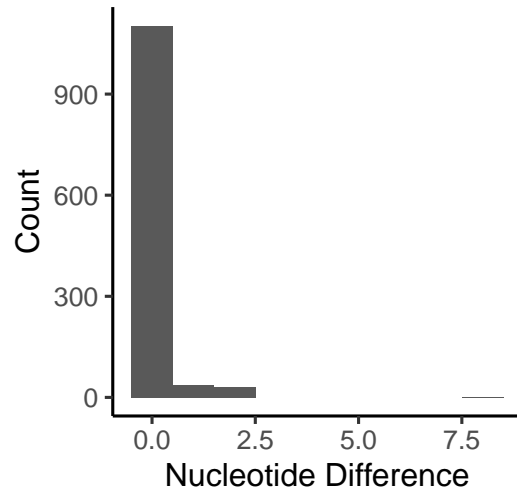
IGHV2–70D*14

3 sequences assigned
No exact matches.



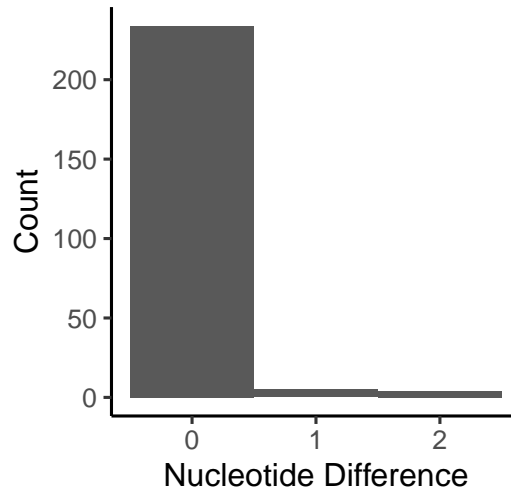
IGHV3-7*01

1174 sequences assigned
1103 (94%) exact matches, in which:
1072 unique CDR3
7 unique J



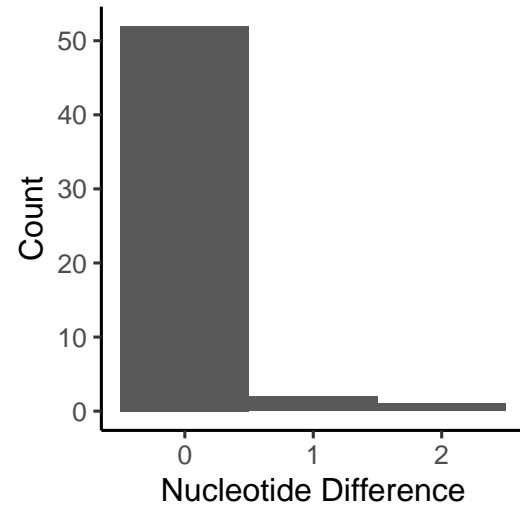
IGHV3-11*04

243 sequences assigned
234 (96.3%) exact matches, in which:
234 unique CDR3
6 unique J



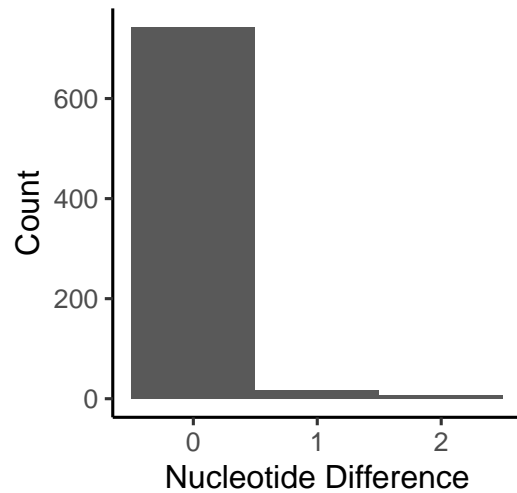
IGHV3-20*01_02

55 sequences assigned
52 (94.5%) exact matches, in which:
50 unique CDR3
6 unique J



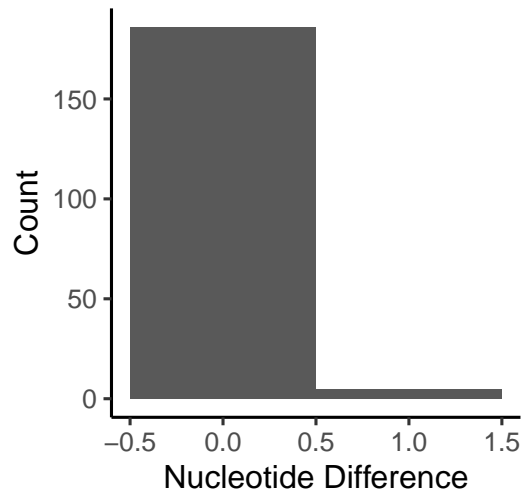
IGHV3-9*01

766 sequences assigned
743 (97%) exact matches, in which:
733 unique CDR3
7 unique J



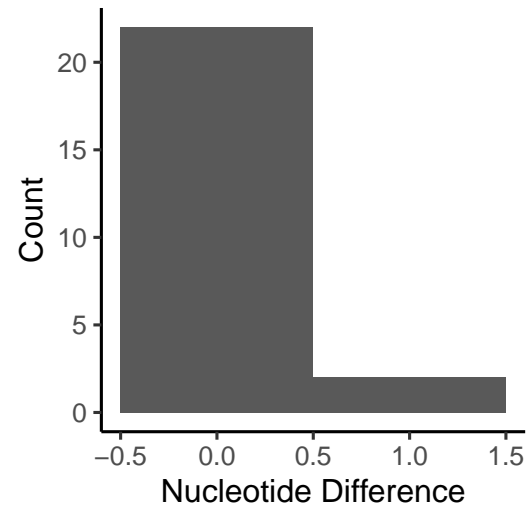
IGHV3-13*01

191 sequences assigned
186 (97.4%) exact matches, in which:
183 unique CDR3
7 unique J



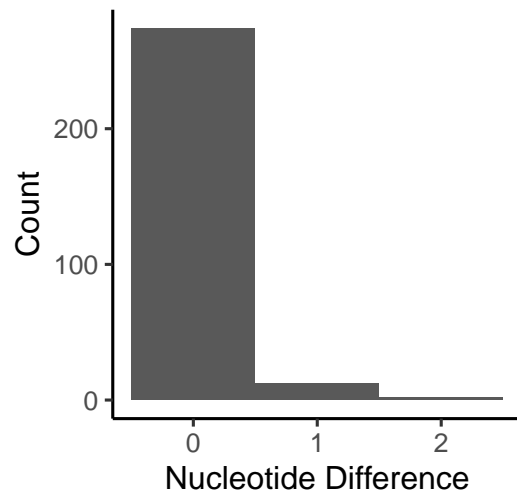
IGHV3-20*03_04

24 sequences assigned
22 (91.7%) exact matches, in which:
22 unique CDR3
4 unique J



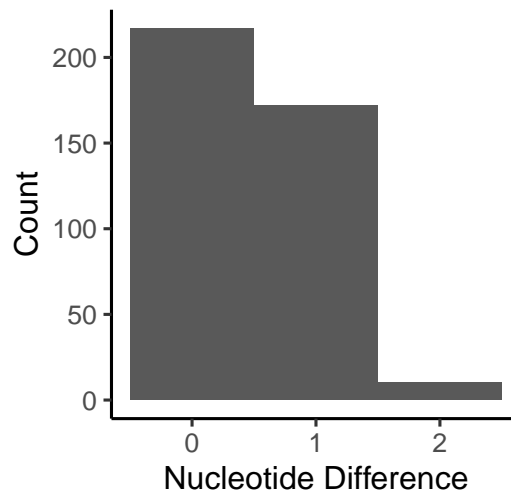
IGHV3-11*01

288 sequences assigned
274 (95.1%) exact matches, in which:
266 unique CDR3
6 unique J



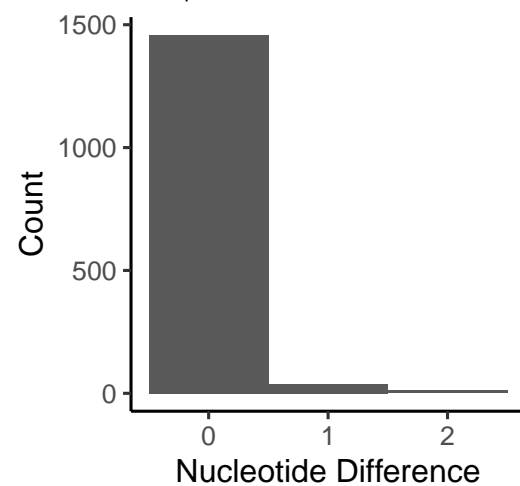
IGHV3-15*01_02

399 sequences assigned
217 (54.4%) exact matches, in which:
215 unique CDR3
5 unique J



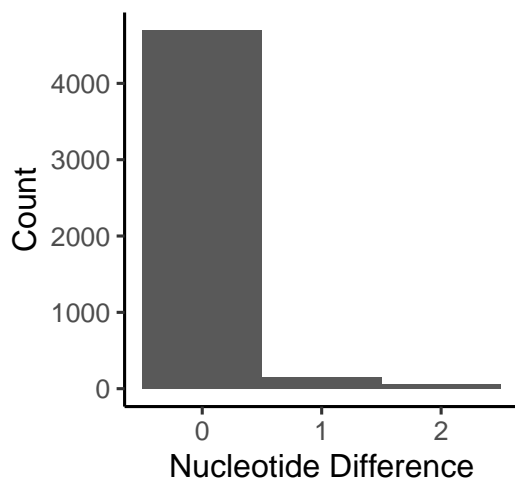
IGHV3-21*01_02

1508 sequences assigned
1458 (96.7%) exact matches, in which:
1414 unique CDR3
7 unique J



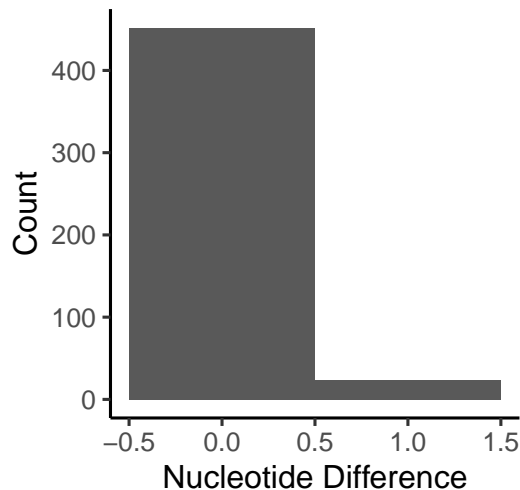
IGHV3-23*01_04

4907 sequences assigned
4694 (95.7%) exact matches, in which:
4551 unique CDR3
7 unique J



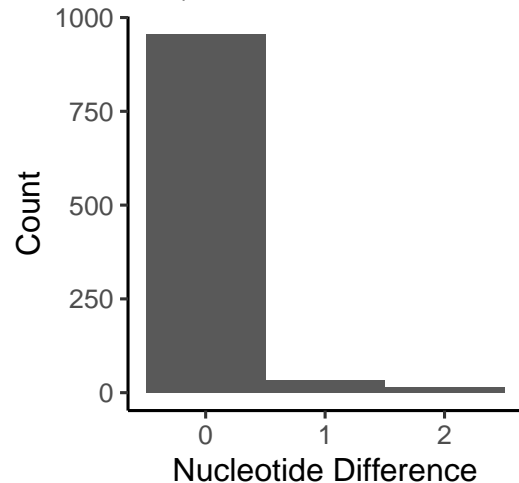
IGHV3-30*02_A245G

476 sequences assigned
452 (95%) exact matches, in which:
438 unique CDR3
6 unique J



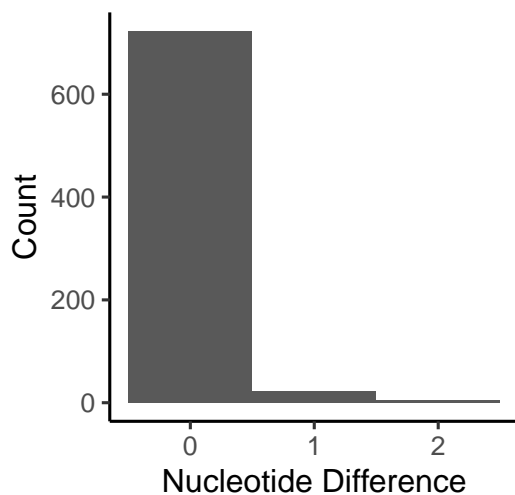
IGHV3-48*02

1004 sequences assigned
955 (95.1%) exact matches, in which:
933 unique CDR3
7 unique J



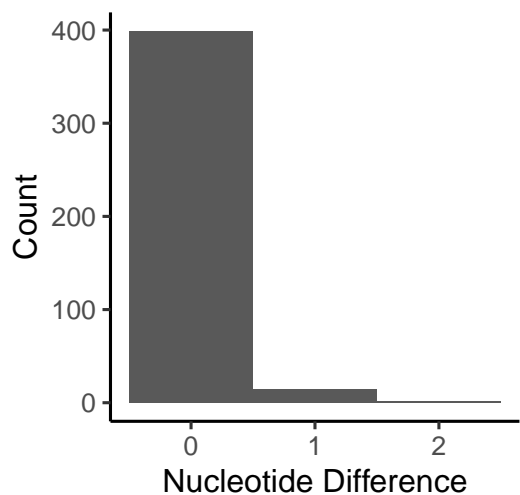
IGHV3-30*04

749 sequences assigned
723 (96.5%) exact matches, in which:
710 unique CDR3
7 unique J



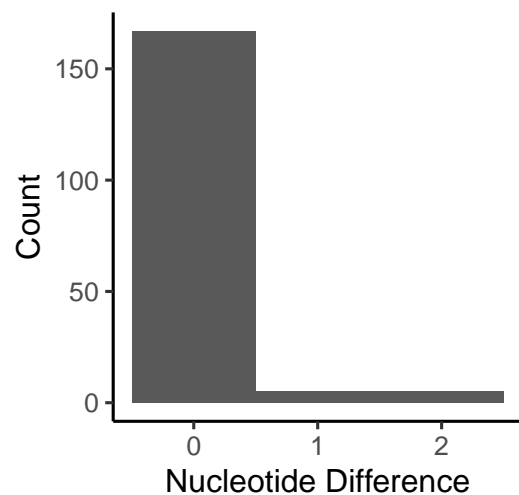
IGHV3-33*01

416 sequences assigned
399 (95.9%) exact matches, in which:
392 unique CDR3
6 unique J



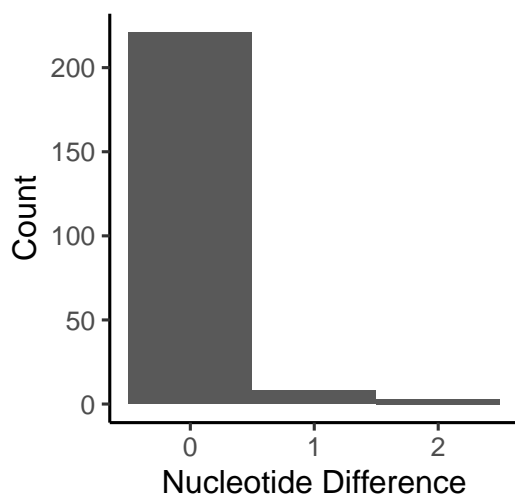
IGHV3-49*03_05

177 sequences assigned
167 (94.4%) exact matches, in which:
167 unique CDR3
7 unique J



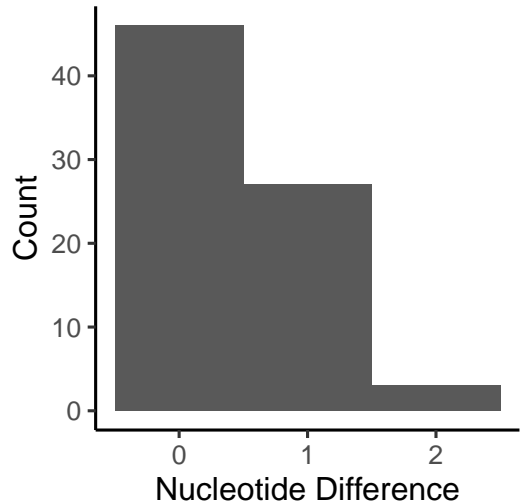
IGHV3-30*18

232 sequences assigned
221 (95.3%) exact matches, in which:
217 unique CDR3
6 unique J



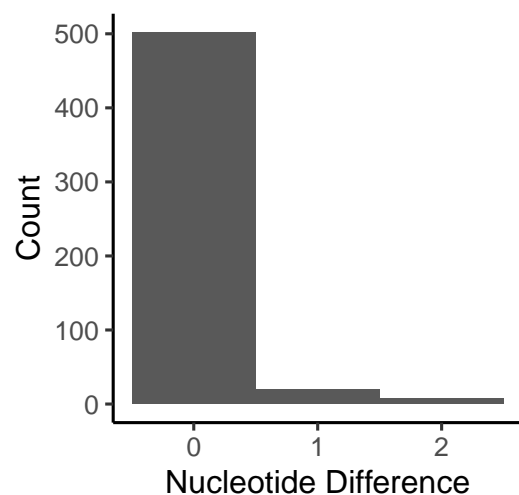
IGHV3-43*01

76 sequences assigned
46 (60.5%) exact matches, in which:
46 unique CDR3
6 unique J



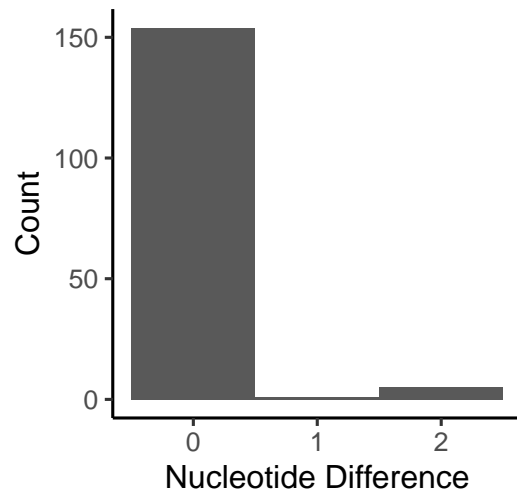
IGHV3-53*01_02

529 sequences assigned
502 (94.9%) exact matches, in which:
491 unique CDR3
7 unique J



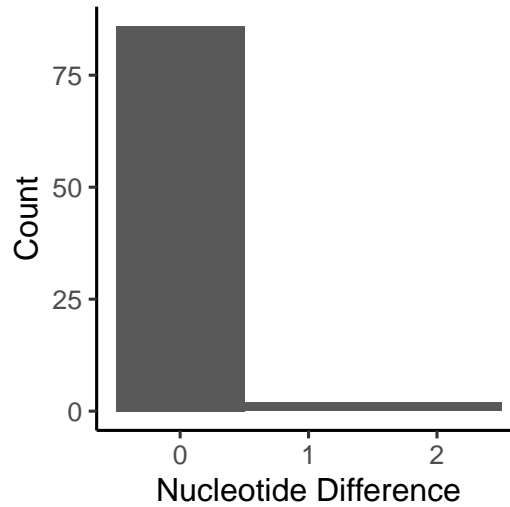
IGHV3-64*01

160 sequences assigned
154 (96.2%) exact matches, in which:
145 unique CDR3
7 unique J



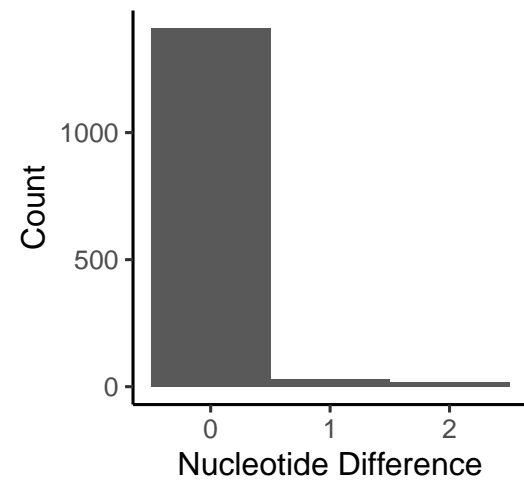
IGHV3-73*01_02

90 sequences assigned
86 (95.6%) exact matches, in which:
86 unique CDR3
6 unique J



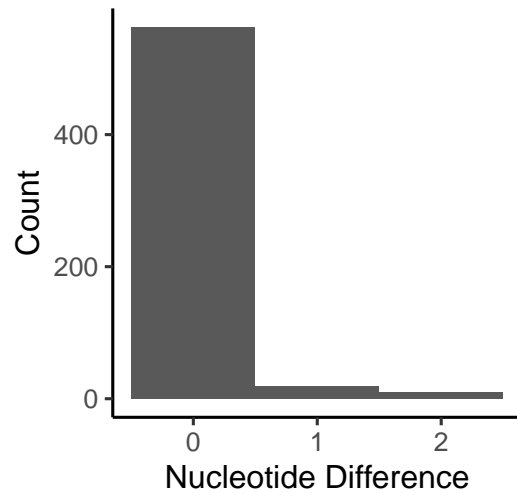
IGHV4-4*07

1458 sequences assigned
1410 (96.7%) exact matches, in which:
1373 unique CDR3
7 unique J



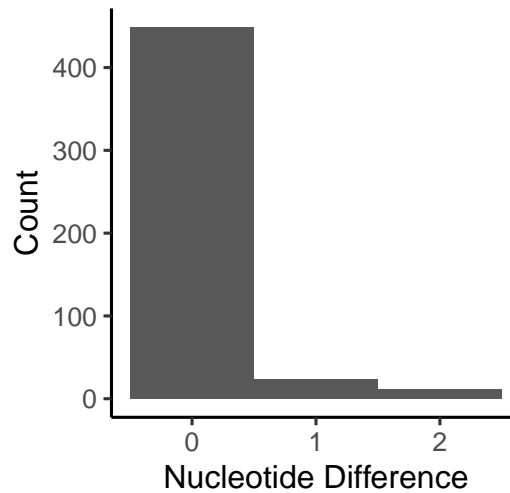
IGHV3-66*02

592 sequences assigned
563 (95.1%) exact matches, in which:
546 unique CDR3
7 unique J



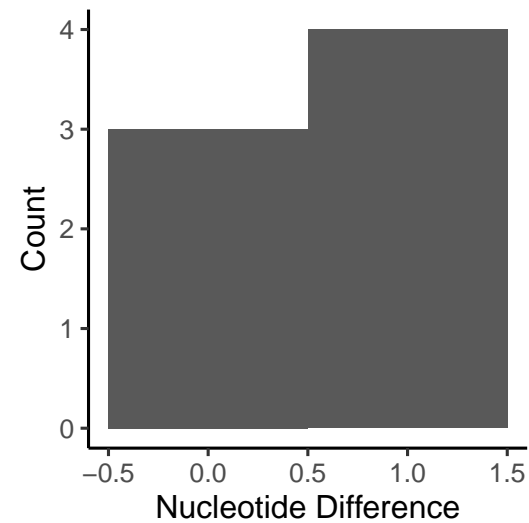
IGHV3-74*01_02

484 sequences assigned
449 (92.8%) exact matches, in which:
436 unique CDR3
7 unique J



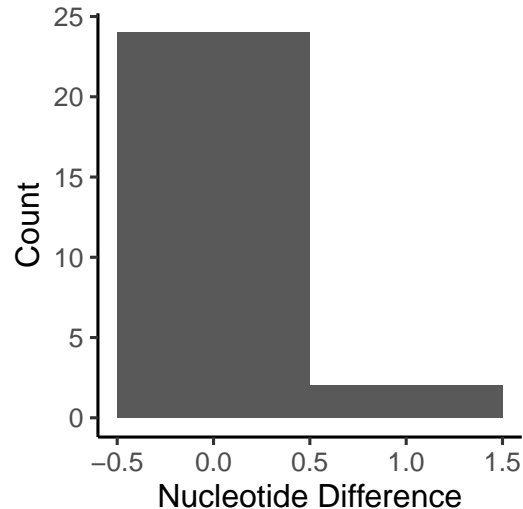
IGHV4-28*01_07

7 sequences assigned
3 (42.9%) exact matches, in which:
3 unique CDR3
2 unique J



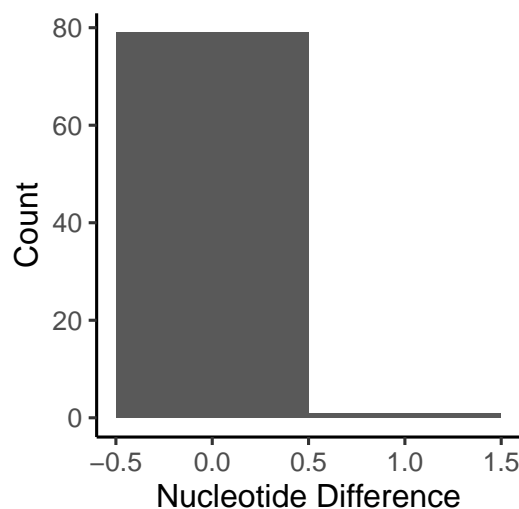
IGHV3-72*01

26 sequences assigned
24 (92.3%) exact matches, in which:
22 unique CDR3
5 unique J



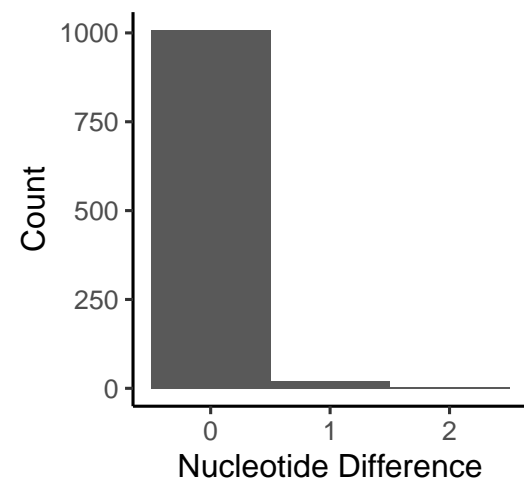
IGHV3-43D*03

80 sequences assigned
79 (98.8%) exact matches, in which:
79 unique CDR3
6 unique J



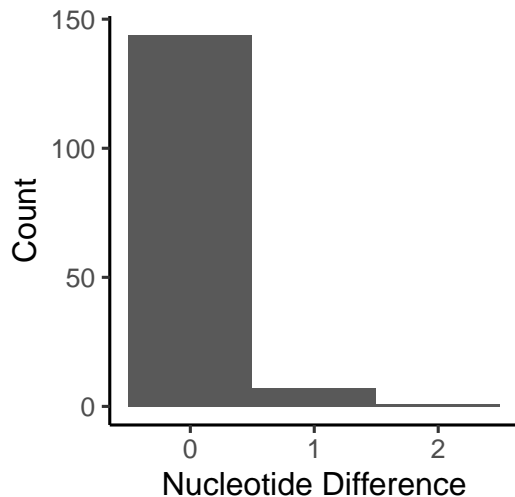
IGHV4-30-2*01

1033 sequences assigned
1008 (97.6%) exact matches, in which:
972 unique CDR3
6 unique J



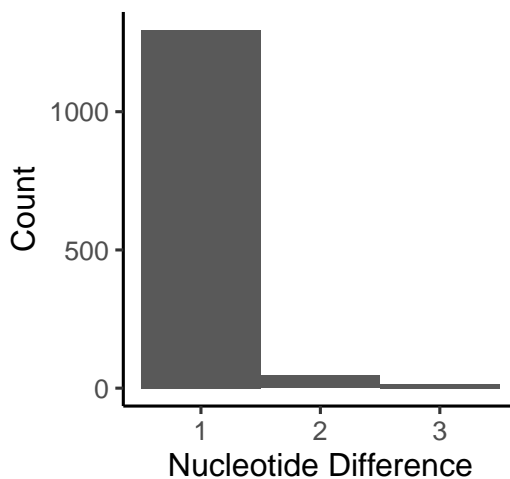
IGHV4-30-4*07

152 sequences assigned
144 (94.7%) exact matches, in which:
144 unique CDR3
6 unique J



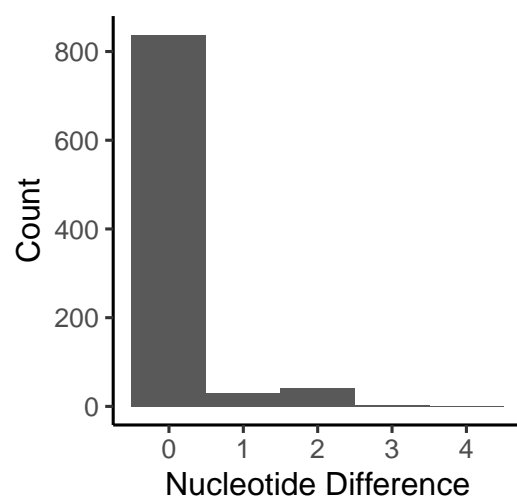
IGHV4-39*02

1357 sequences assigned
No exact matches.



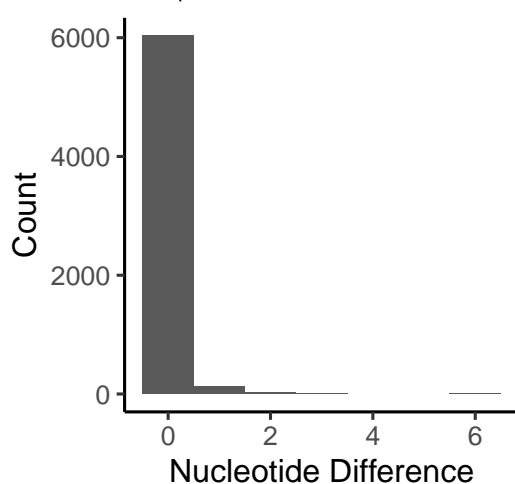
IGHV4-59*08

914 sequences assigned
838 (91.7%) exact matches, in which:
811 unique CDR3
7 unique J



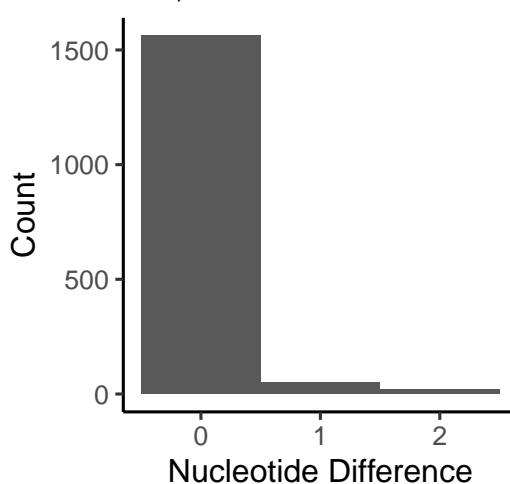
IGHV4-34*01_02

6188 sequences assigned
6033 (97.5%) exact matches, in which:
5786 unique CDR3
7 unique J



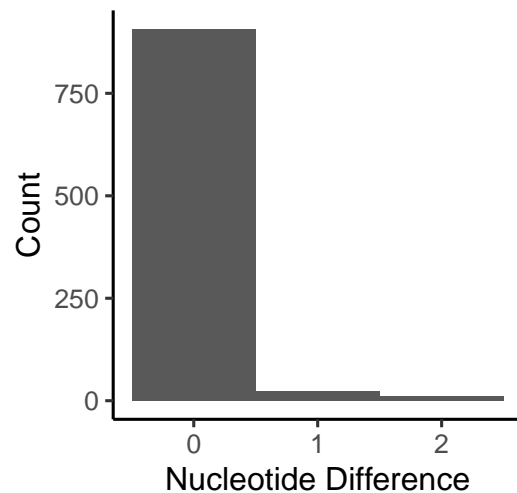
IGHV4-39*07

1629 sequences assigned
1562 (95.9%) exact matches, in which:
1533 unique CDR3
7 unique J



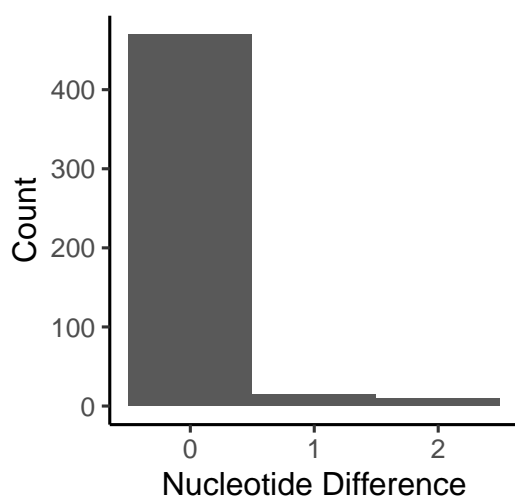
IGHV4-61*02

941 sequences assigned
907 (96.4%) exact matches, in which:
895 unique CDR3
6 unique J



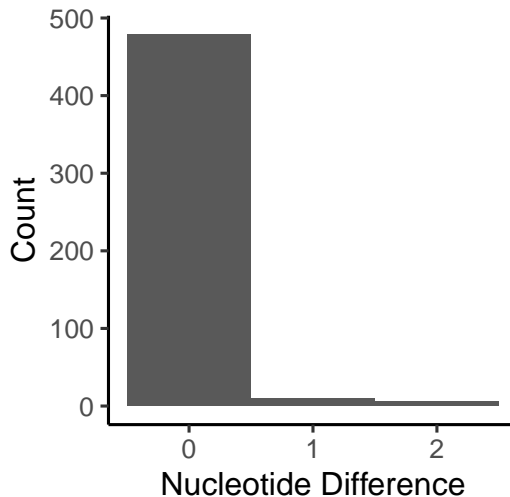
IGHV4-38-2*02

494 sequences assigned
470 (95.1%) exact matches, in which:
456 unique CDR3
6 unique J



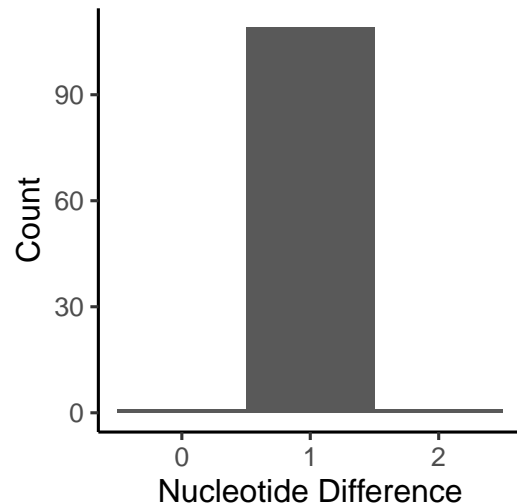
IGHV4-39*01_05

495 sequences assigned
479 (96.8%) exact matches, in which:
463 unique CDR3
7 unique J



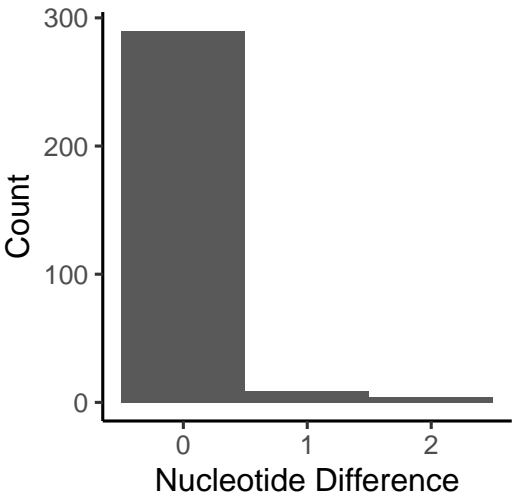
IGHV5-51*07

111 sequences assigned
1 (0.9%) exact matches, in which:
1 unique CDR3
1 unique J



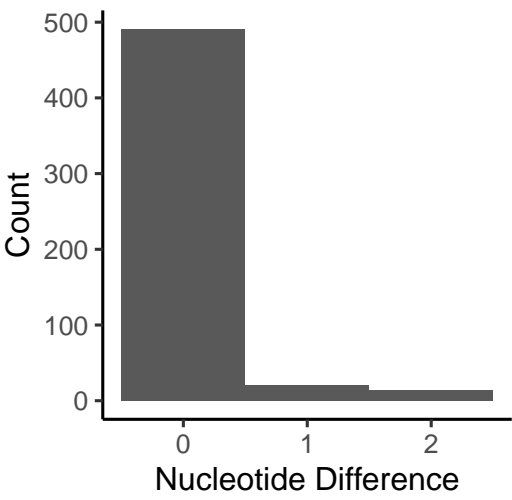
IGHV5-51*01_03

303 sequences assigned
290 (95.7%) exact matches, in which:
289 unique CDR3
7 unique J

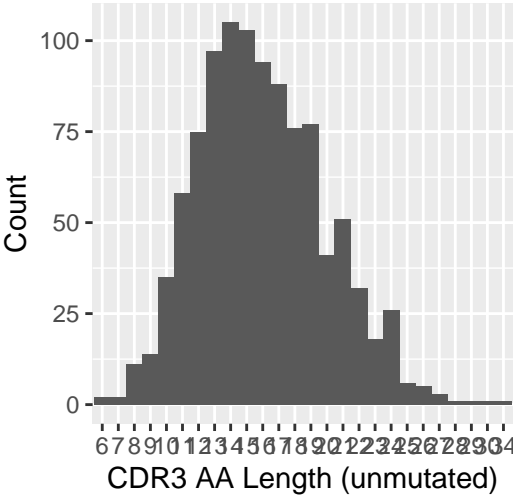


IGHV6-1*01_02

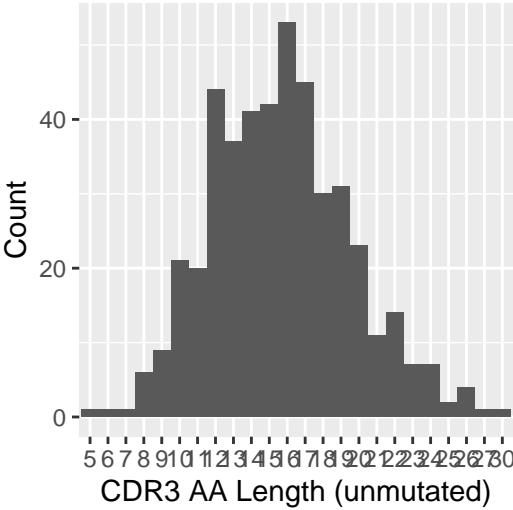
525 sequences assigned
491 (93.5%) exact matches, in which:
483 unique CDR3
7 unique J



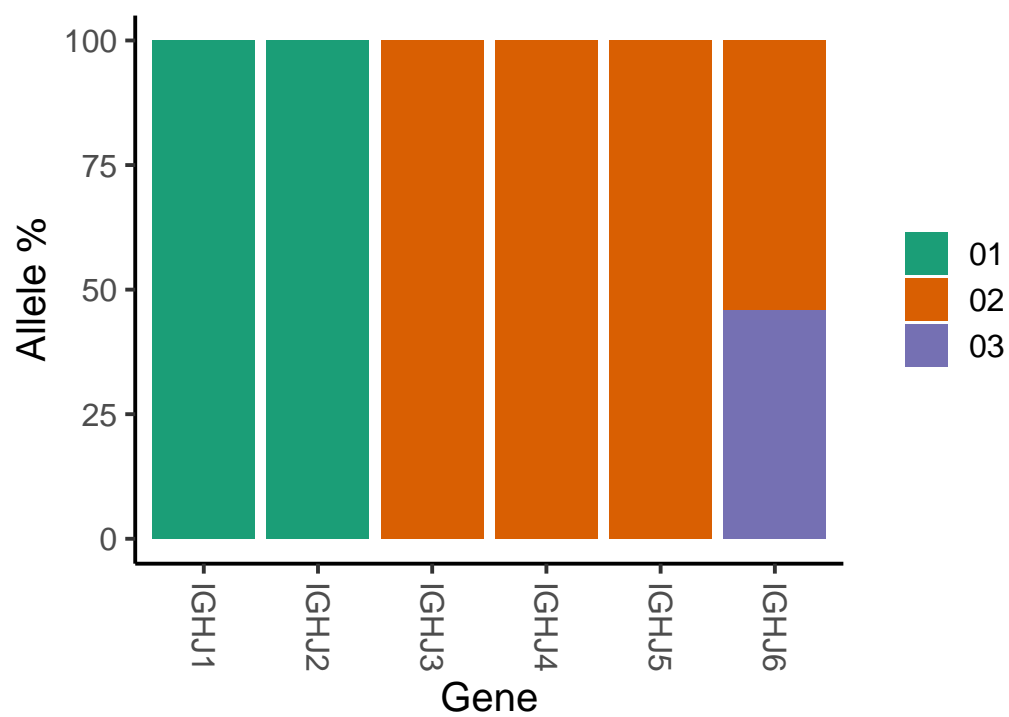
IGHV1-18*01_A190G



IGHV3-30*02_A245G



Allele Usage



Sequence Count by IGHJ6 allele usage

