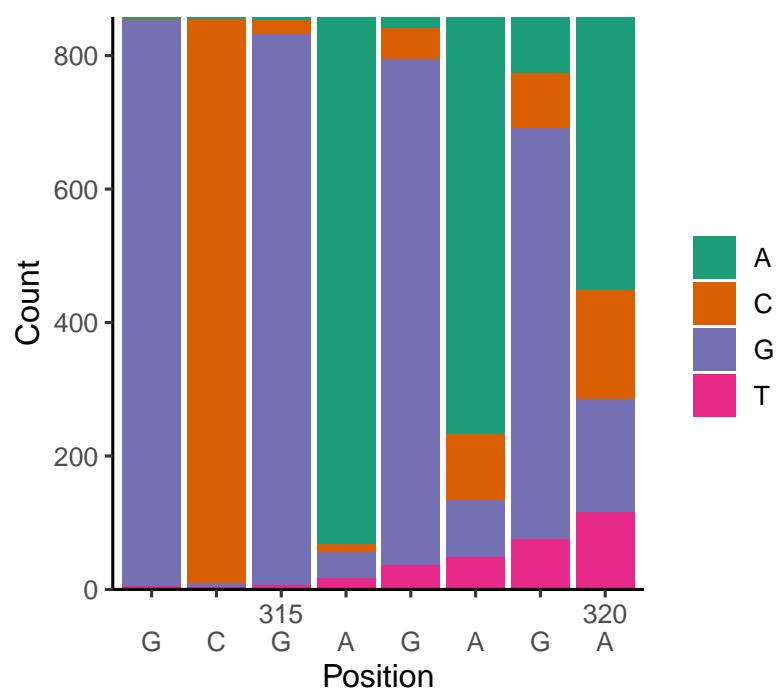
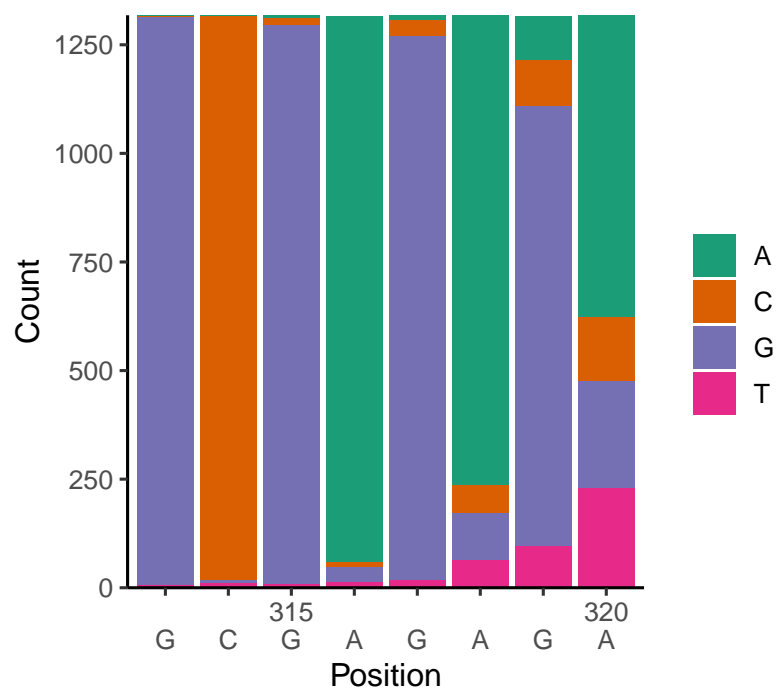


Gene IGHV1-69*08_C191T



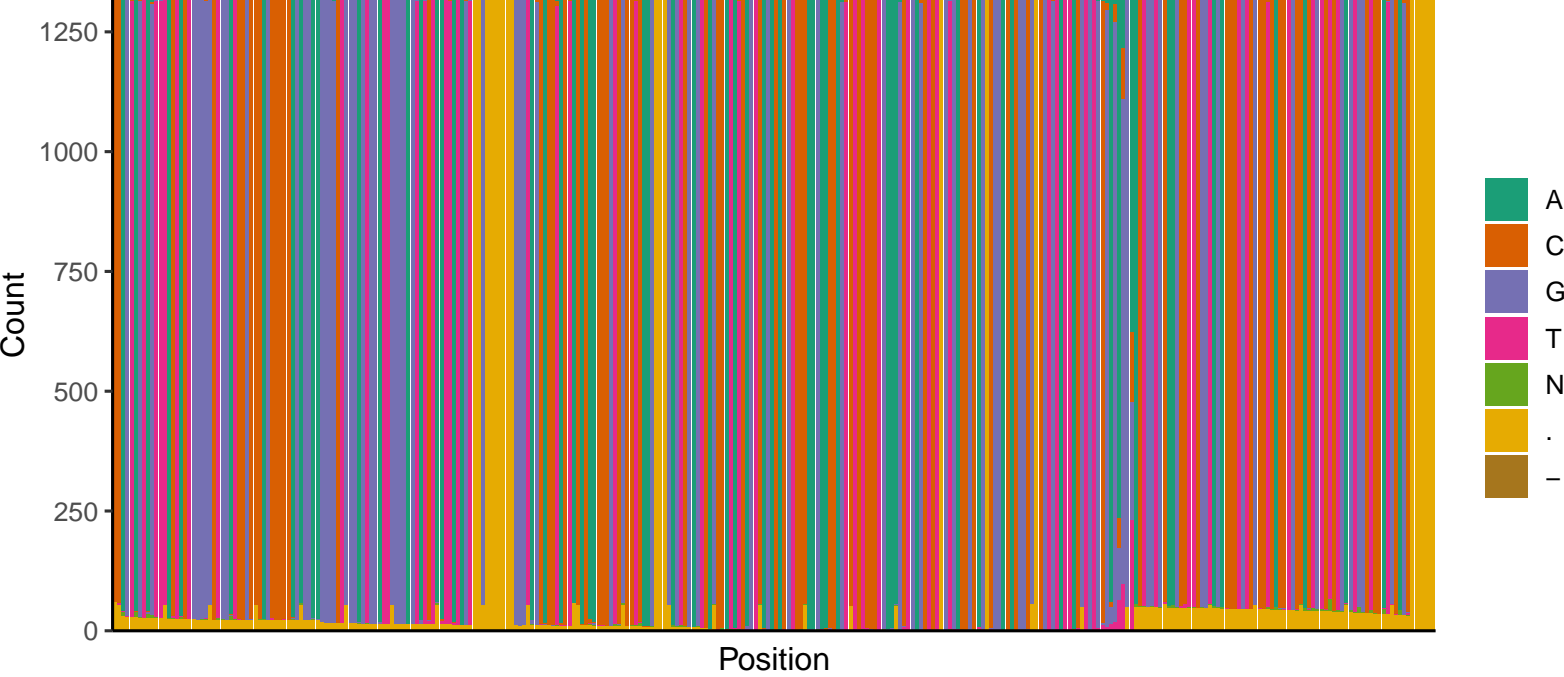
Gene IGHV4-39*07_C288A



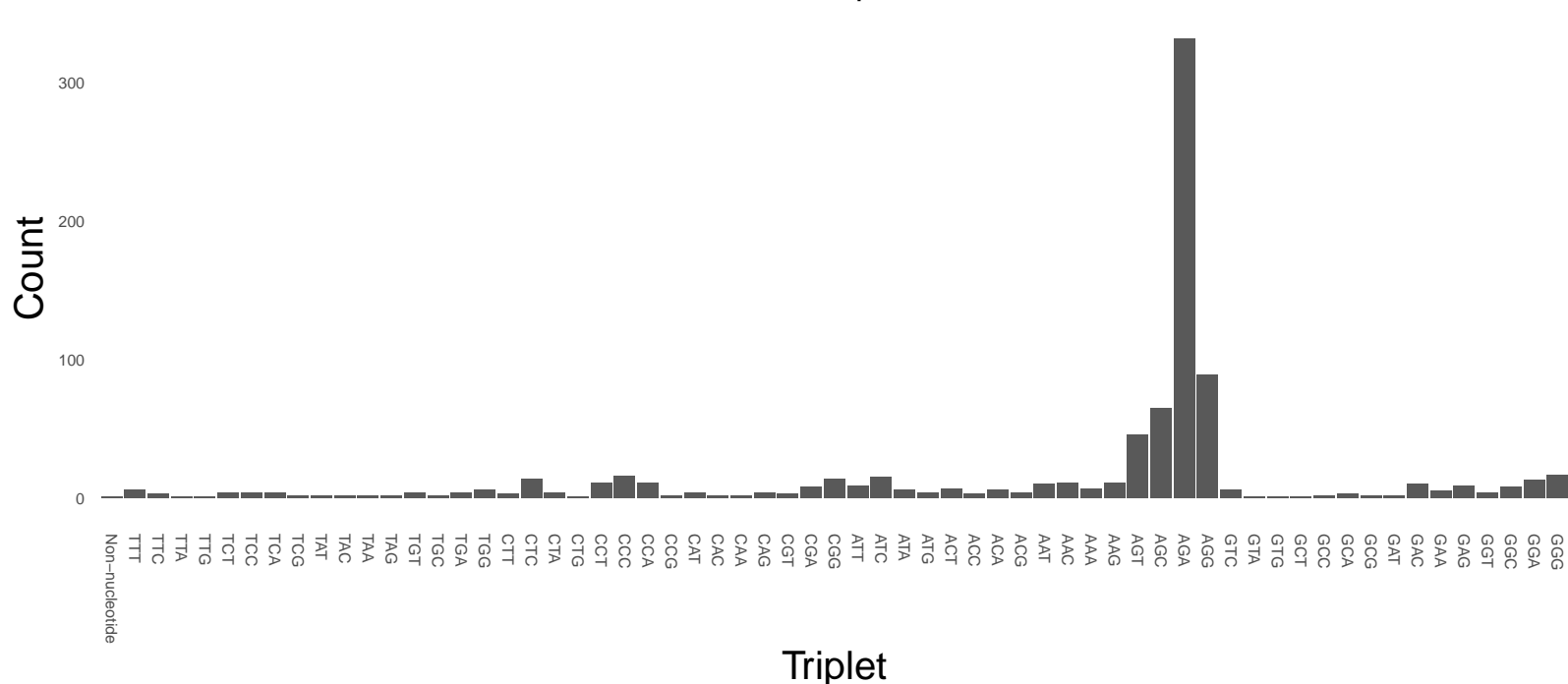
Gene IGHV1-69*08_C191T



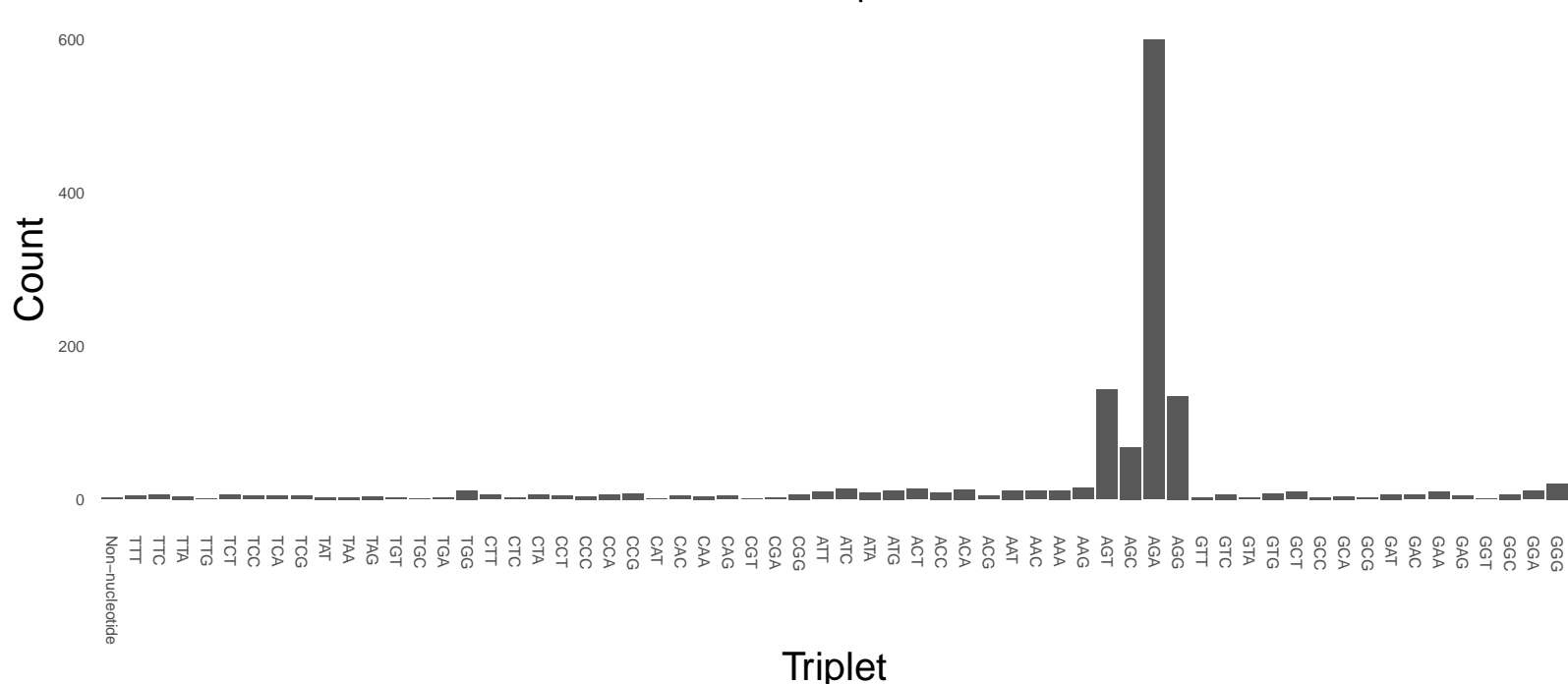
Gene IGHV4-39*07_C288A



IGHV1-69*08_C191T- Final 3 nucleotides as a triplet

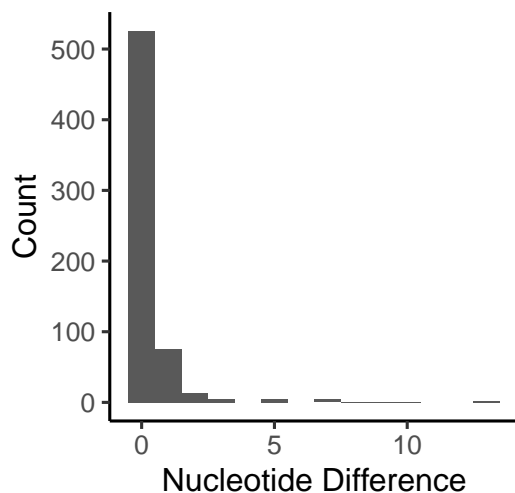


IGHV4-39*07_C288A- Final 3 nucleotides as a triplet



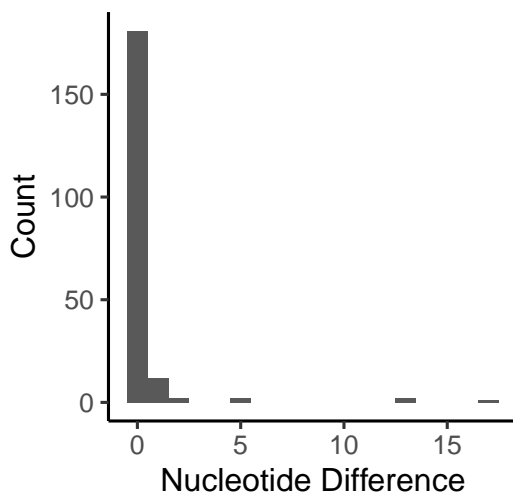
IGHV1-2*06

636 sequences assigned
526 (82.7%) exact matches, in which:
505 unique CDR3
6 unique J



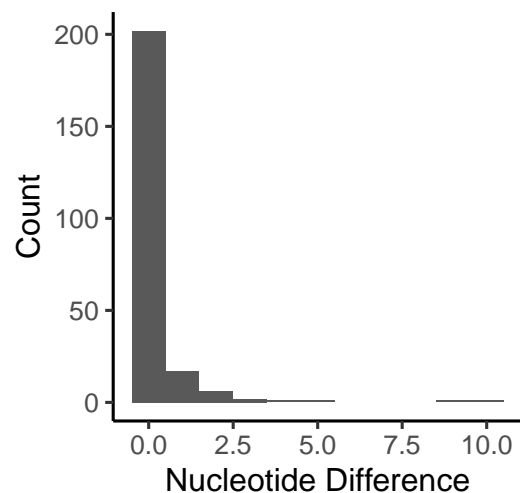
IGHV1-24*01

200 sequences assigned
181 (90.5%) exact matches, in which:
176 unique CDR3
7 unique J



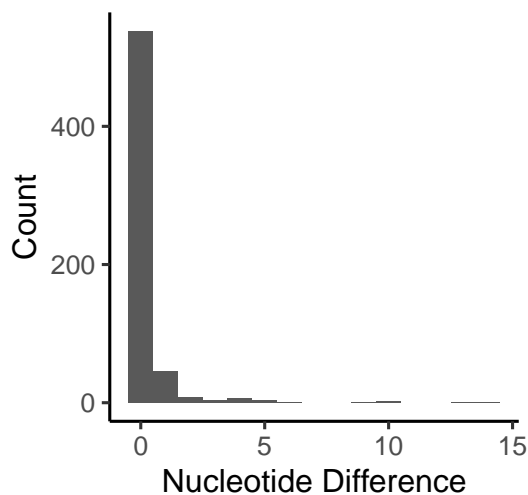
IGHV1-46*03

231 sequences assigned
202 (87.4%) exact matches, in which:
193 unique CDR3
6 unique J



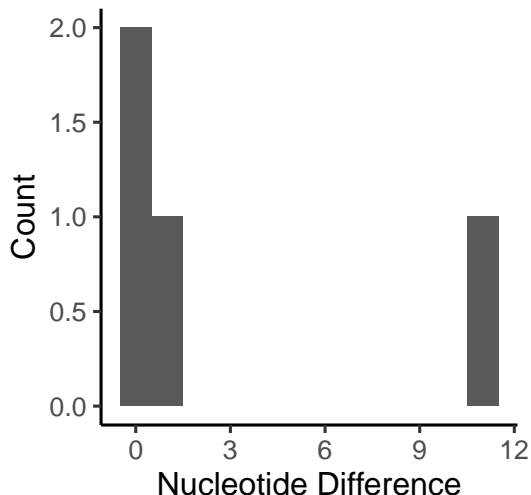
IGHV1-3*01

609 sequences assigned
538 (88.3%) exact matches, in which:
523 unique CDR3
7 unique J



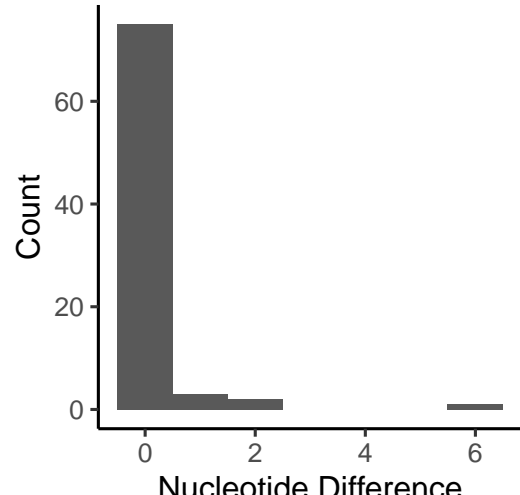
IGHV1-45*02

4 sequences assigned
2 (50%) exact matches, in which:
2 unique CDR3
2 unique J



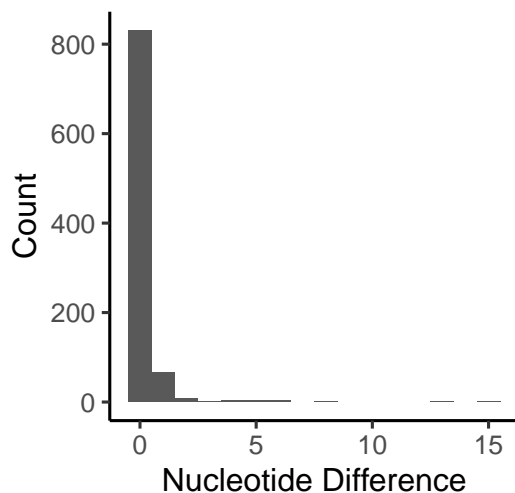
IGHV1-58*02

81 sequences assigned
75 (92.6%) exact matches, in which:
72 unique CDR3
5 unique J



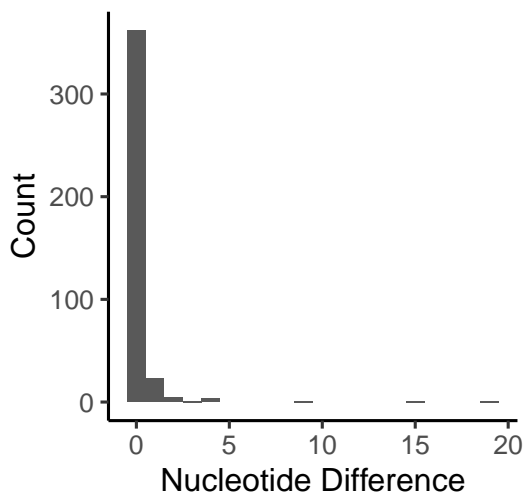
IGHV1-18*01

926 sequences assigned
831 (89.7%) exact matches, in which:
815 unique CDR3
7 unique J



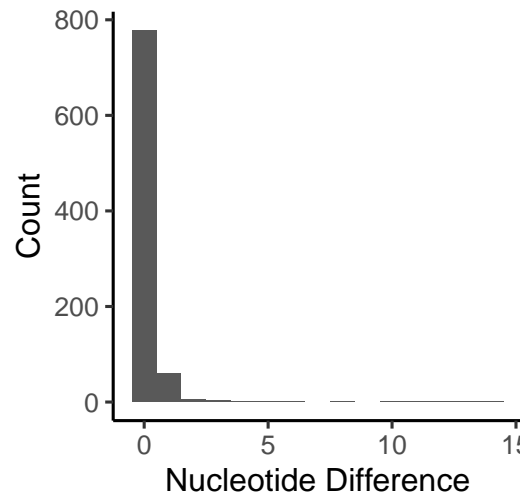
IGHV1-46*01

397 sequences assigned
362 (91.2%) exact matches, in which:
354 unique CDR3
6 unique J



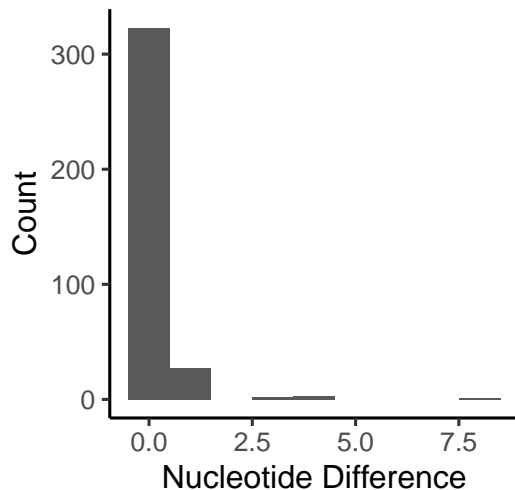
IGHV1-69*08_C191T

858 sequences assigned
778 (90.7%) exact matches, in which:
752 unique CDR3
7 unique J



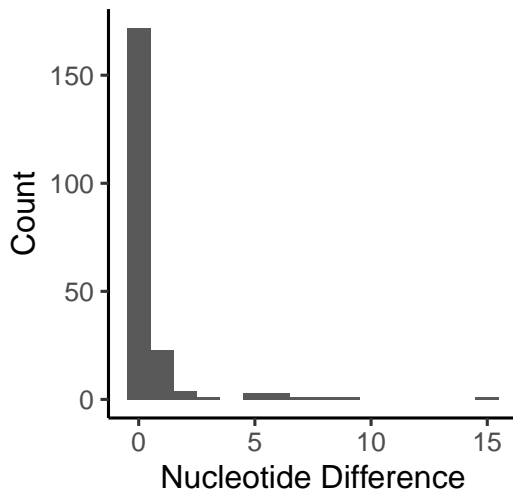
IGHV2–5*02

357 sequences assigned
323 (90.5%) exact matches, in which:
317 unique CDR3
7 unique J



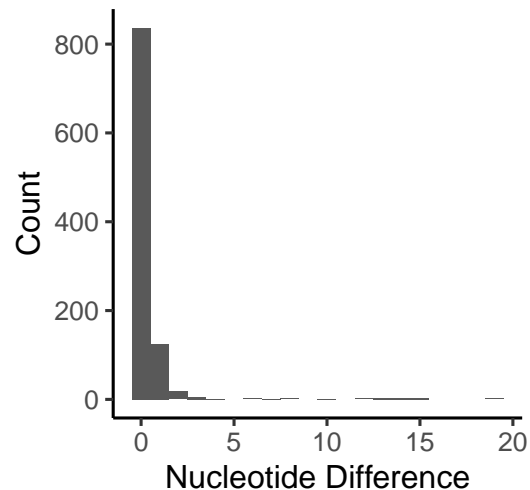
IGHV3–7*04

211 sequences assigned
172 (81.5%) exact matches, in which:
161 unique CDR3
6 unique J



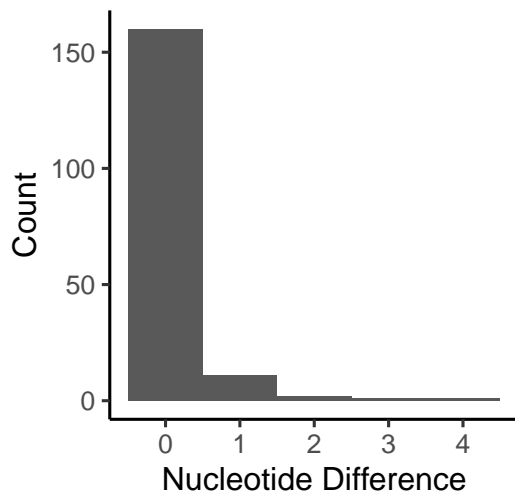
IGHV3–15*01

1007 sequences assigned
837 (83.1%) exact matches, in which:
805 unique CDR3
7 unique J



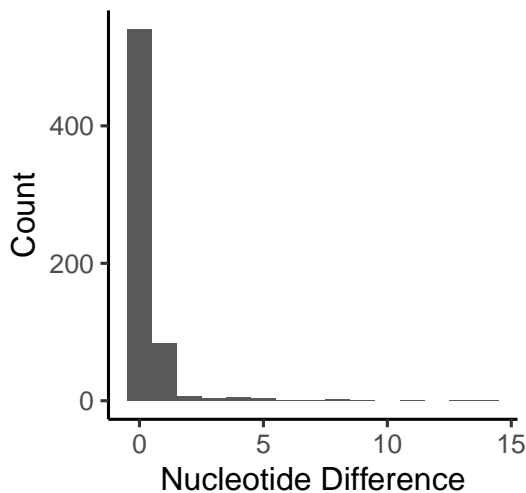
IGHV2–26*01

175 sequences assigned
160 (91.4%) exact matches, in which:
155 unique CDR3
7 unique J



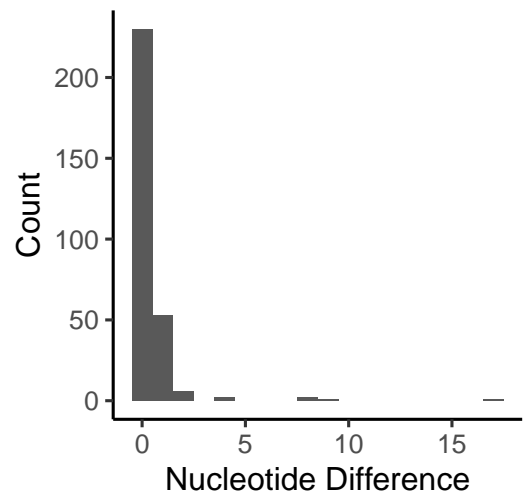
IGHV3–11*05

650 sequences assigned
541 (83.2%) exact matches, in which:
528 unique CDR3
7 unique J



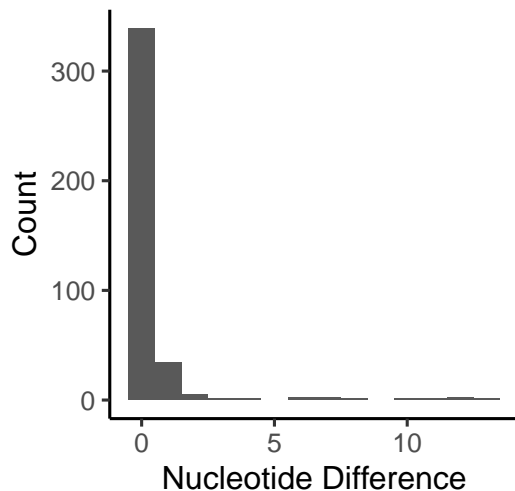
IGHV3–20*04

295 sequences assigned
230 (78%) exact matches, in which:
218 unique CDR3
7 unique J



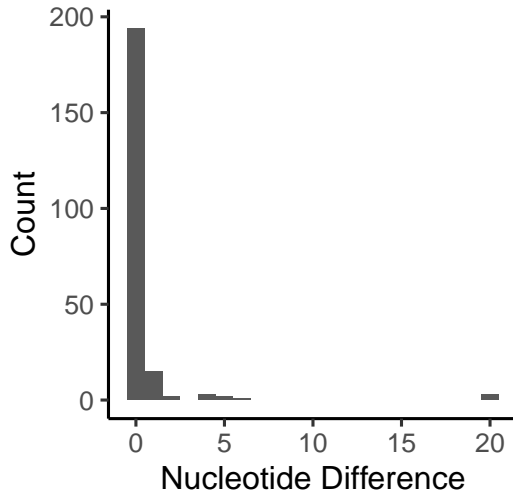
IGHV3–7*03

390 sequences assigned
339 (86.9%) exact matches, in which:
325 unique CDR3
6 unique J



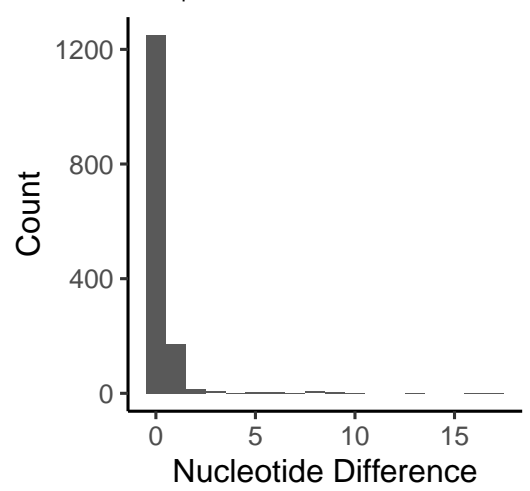
IGHV3–13*04

223 sequences assigned
194 (87%) exact matches, in which:
184 unique CDR3
6 unique J



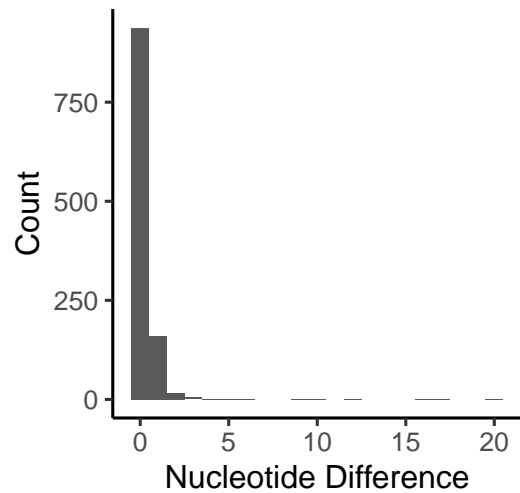
IGHV3–21*01

1474 sequences assigned
1250 (84.8%) exact matches, in which:
1196 unique CDR3
7 unique J



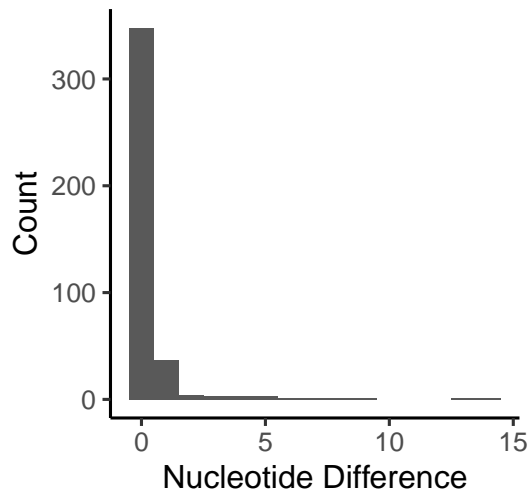
IGHV3–23*04

1134 sequences assigned
938 (82.7%) exact matches, in which:
892 unique CDR3
6 unique J



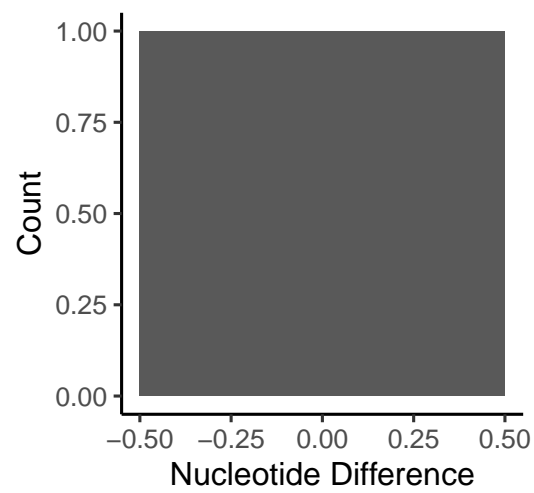
IGHV3–48*01

405 sequences assigned
348 (85.9%) exact matches, in which:
339 unique CDR3
6 unique J



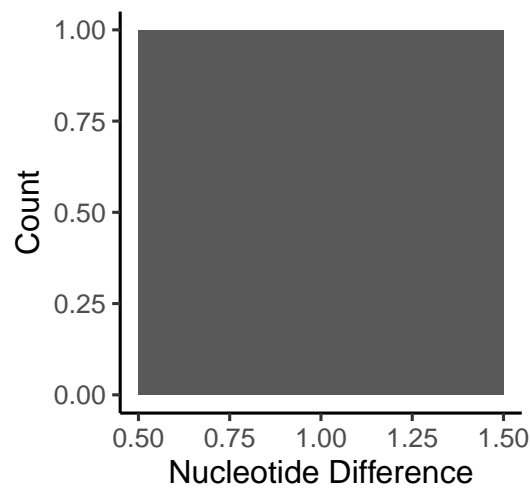
IGHV3–52*02

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



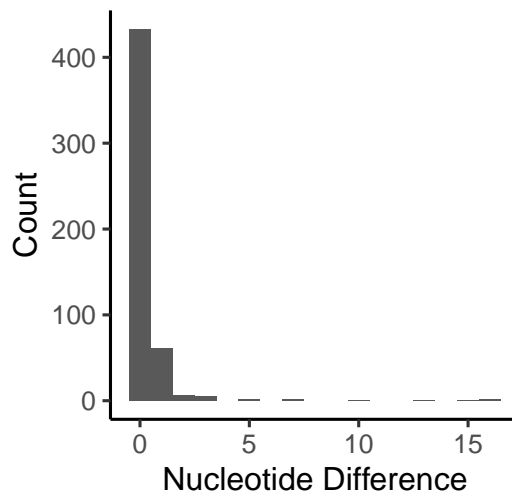
IGHV3–33*02

1 sequences assigned
No exact matches.



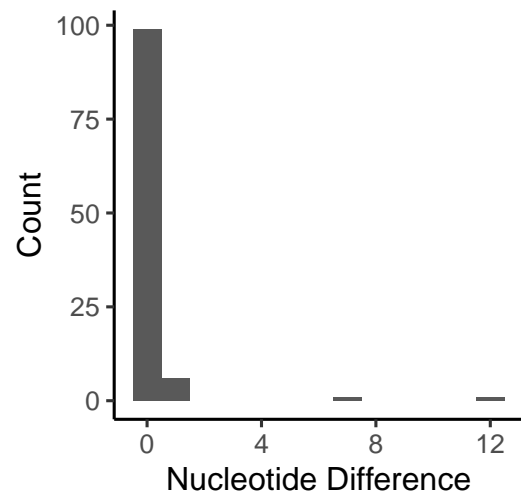
IGHV3–48*04

516 sequences assigned
433 (83.9%) exact matches, in which:
420 unique CDR3
6 unique J



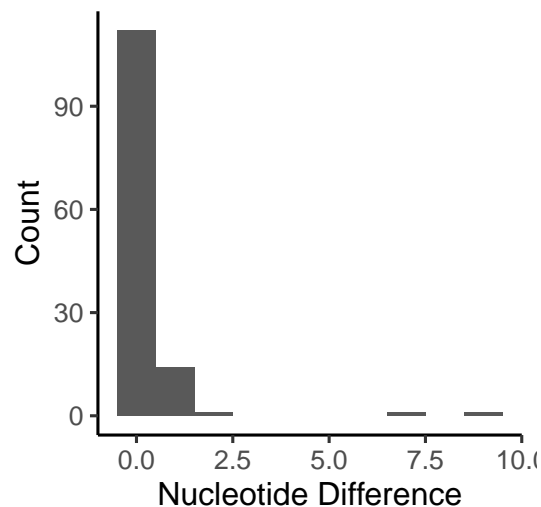
IGHV3–53*02

107 sequences assigned
99 (92.5%) exact matches, in which:
90 unique CDR3
6 unique J



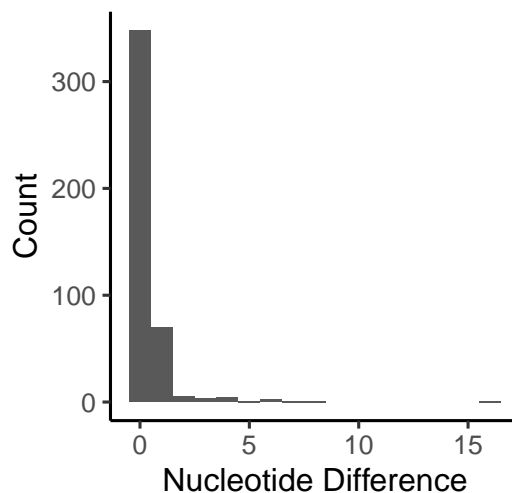
IGHV3–43*01

137 sequences assigned
112 (81.8%) exact matches, in which:
103 unique CDR3
6 unique J



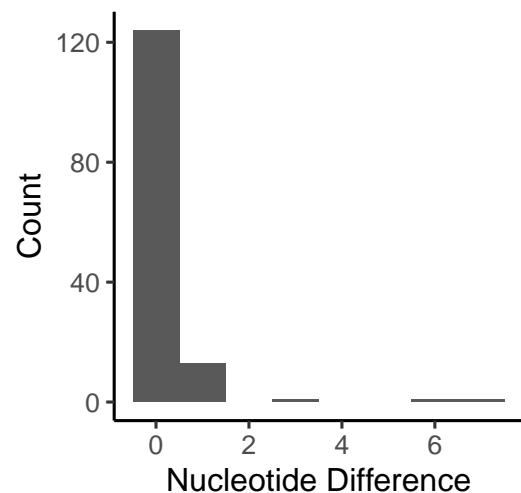
IGHV3–49*03

436 sequences assigned
348 (79.8%) exact matches, in which:
339 unique CDR3
7 unique J



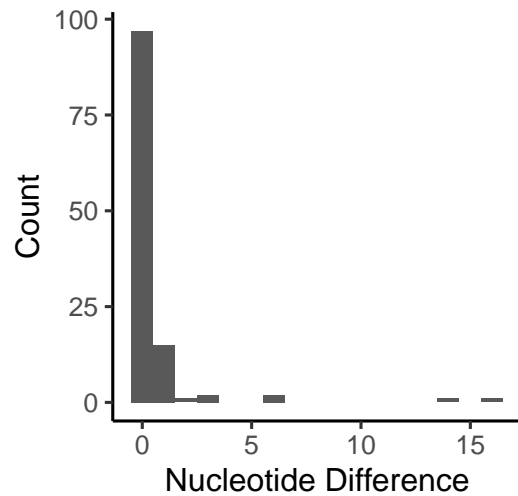
IGHV3–53*04

140 sequences assigned
124 (88.6%) exact matches, in which:
124 unique CDR3
6 unique J



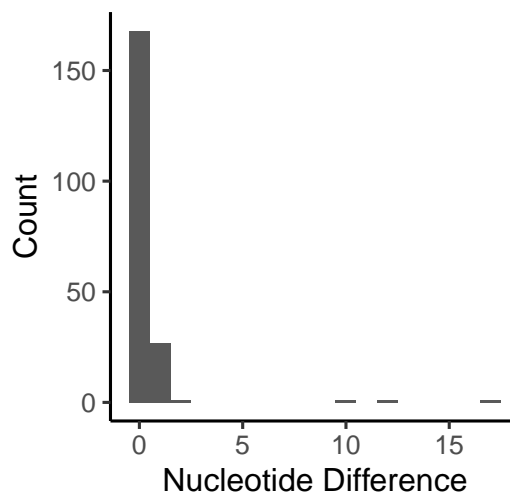
IGHV3–64*01

120 sequences assigned
97 (80.8%) exact matches, in which:
95 unique CDR3
6 unique J



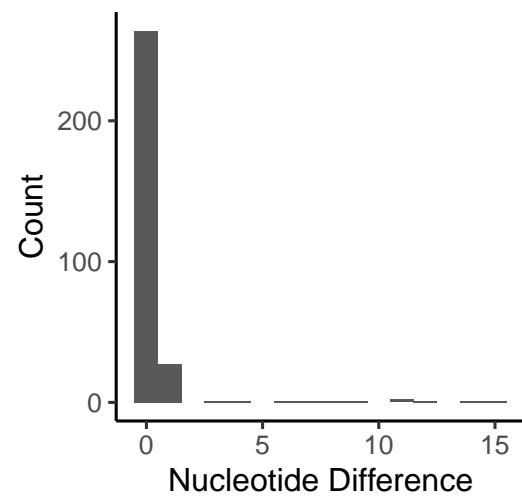
IGHV3–73*01

199 sequences assigned
168 (84.4%) exact matches, in which:
159 unique CDR3
5 unique J



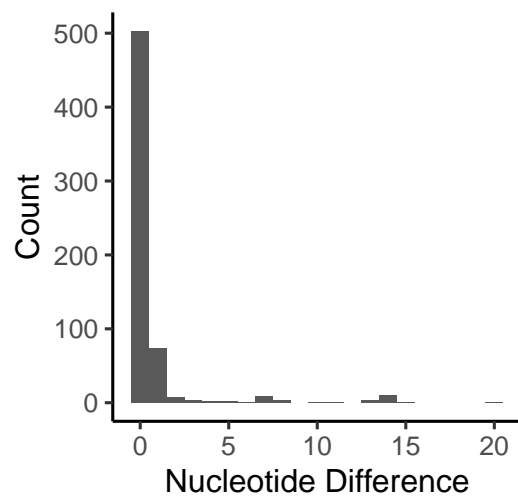
IGHV4–4*02

303 sequences assigned
264 (87.1%) exact matches, in which:
258 unique CDR3
7 unique J



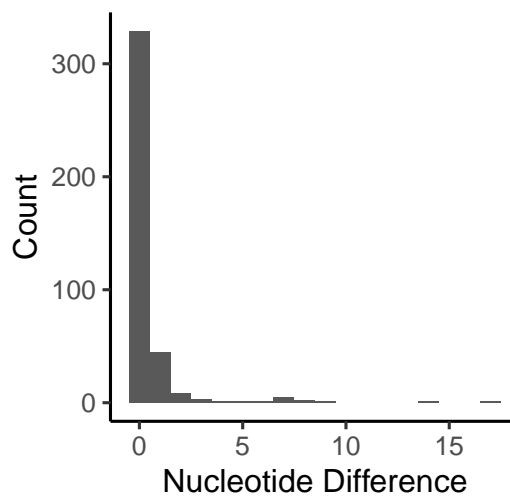
IGHV3–66*02

625 sequences assigned
503 (80.5%) exact matches, in which:
481 unique CDR3
7 unique J



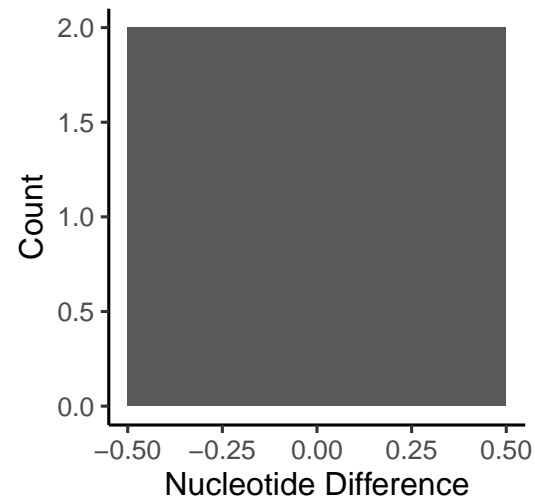
IGHV3–74*01

398 sequences assigned
329 (82.7%) exact matches, in which:
321 unique CDR3
7 unique J



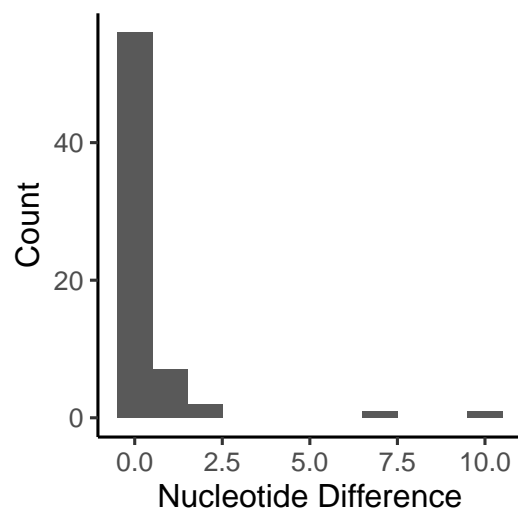
IGHV4–28*01

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



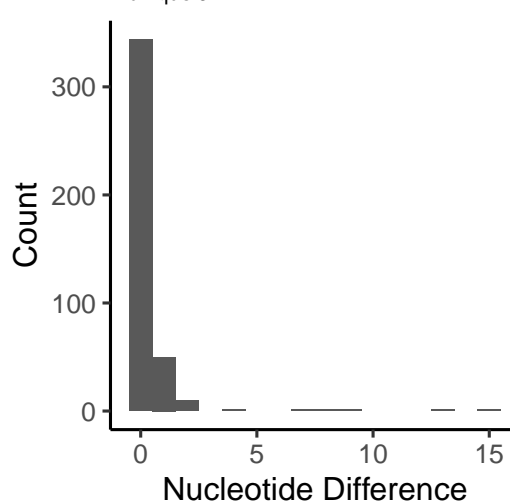
IGHV3–72*01

67 sequences assigned
56 (83.6%) exact matches, in which:
56 unique CDR3
6 unique J



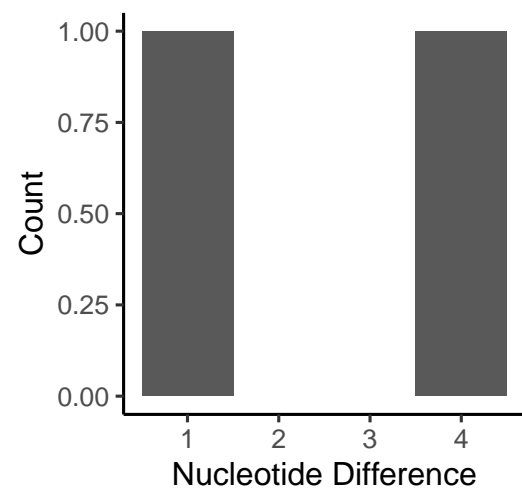
IGHV3–64D*06

411 sequences assigned
344 (83.7%) exact matches, in which:
325 unique CDR3
7 unique J



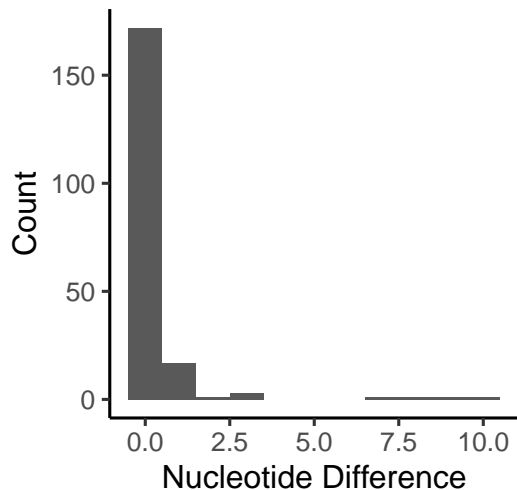
IGHV4–28*03

2 sequences assigned
No exact matches.



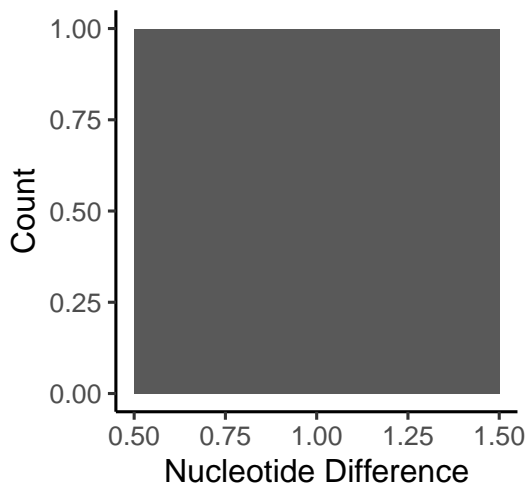
IGHV4-30-2*01

199 sequences assigned
172 (86.4%) exact matches, in which:
167 unique CDR3
6 unique J



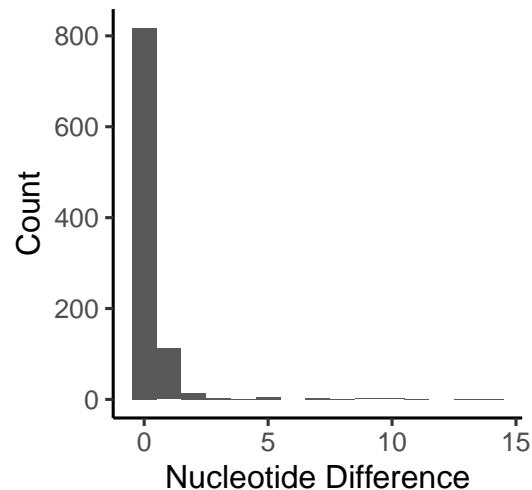
IGHV4-38-2*02

1 sequences assigned
No exact matches.



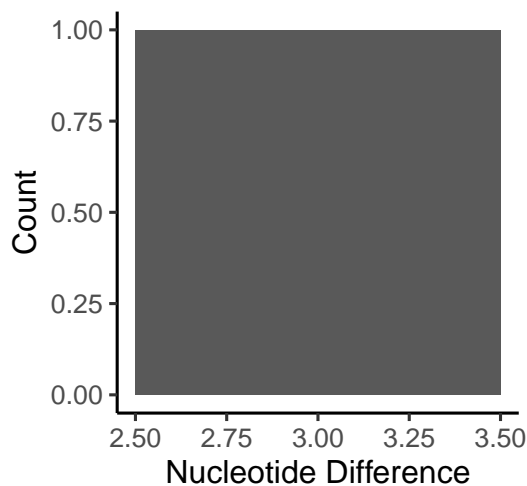
IGHV4-59*01

964 sequences assigned
818 (84.9%) exact matches, in which:
792 unique CDR3
7 unique J



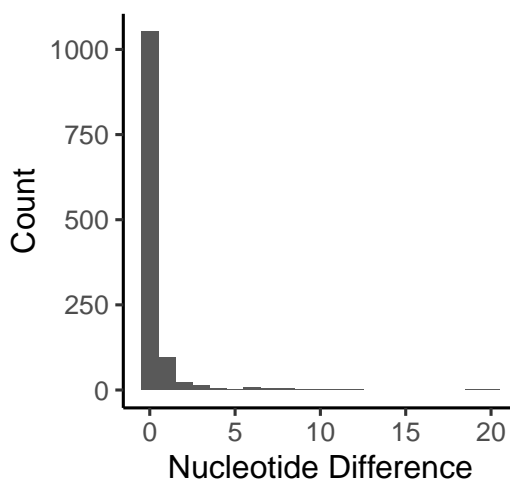
IGHV4-31*11

1 sequences assigned
No exact matches.



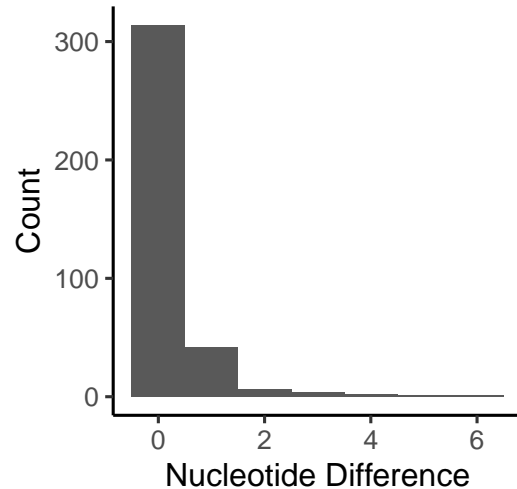
IGHV4-39*01

1213 sequences assigned
1052 (86.7%) exact matches, in which:
1021 unique CDR3
6 unique J



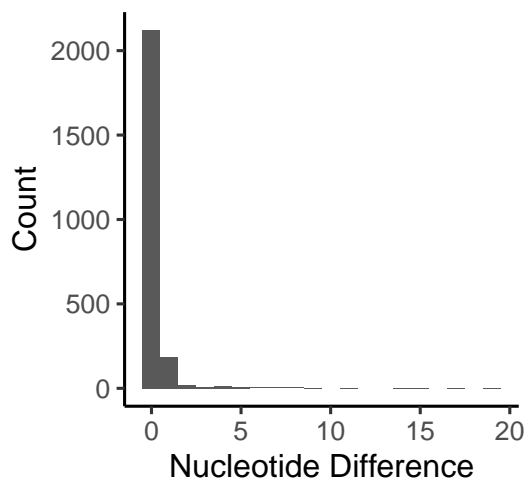
IGHV4-59*08

371 sequences assigned
314 (84.6%) exact matches, in which:
306 unique CDR3
6 unique J



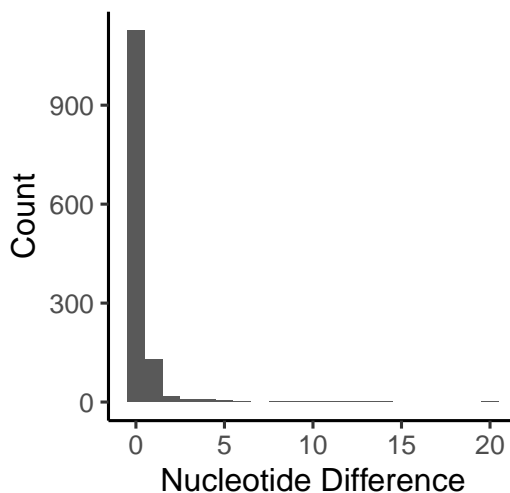
IGHV4-34*01

2383 sequences assigned
2122 (89%) exact matches, in which:
2036 unique CDR3
7 unique J



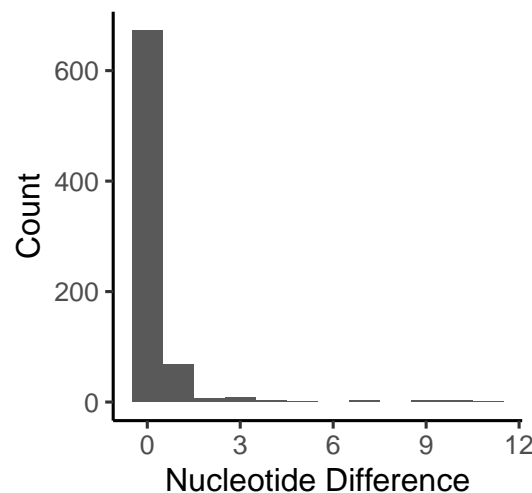
IGHV4-39*07_C288A

1318 sequences assigned
1127 (85.5%) exact matches, in which:
1079 unique CDR3
7 unique J



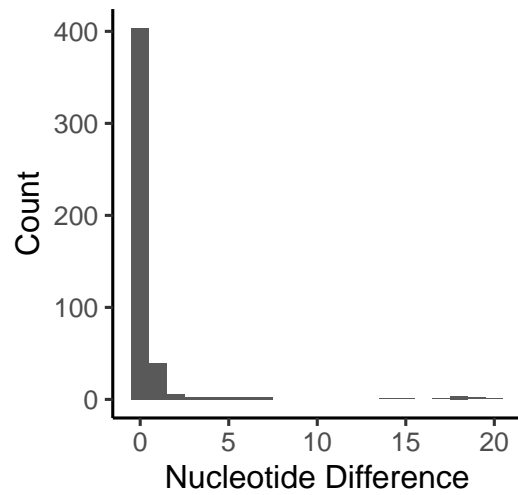
IGHV4-61*02

770 sequences assigned
673 (87.4%) exact matches, in which:
657 unique CDR3
6 unique J



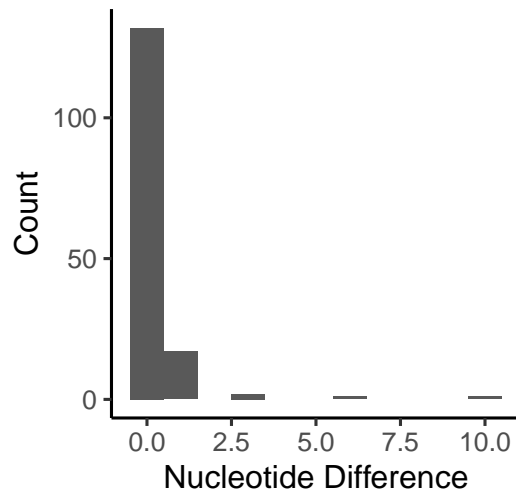
IGHV5-10-1*01

476 sequences assigned
404 (84.9%) exact matches, in which:
394 unique CDR3
7 unique J



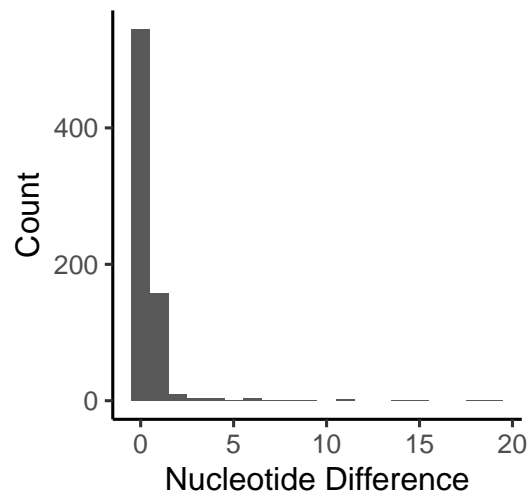
IGHV6-1*01

153 sequences assigned
132 (86.3%) exact matches, in which:
128 unique CDR3
6 unique J



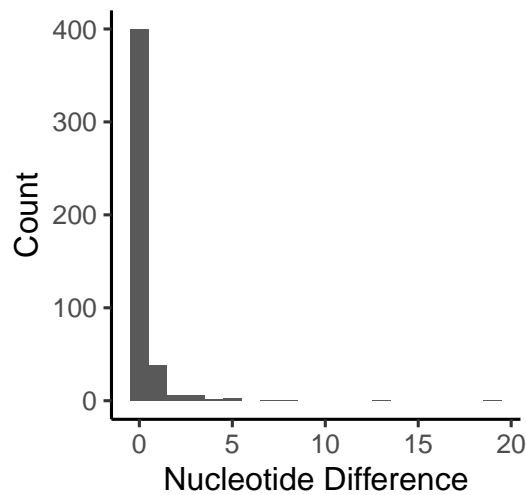
IGHV5-51*01

737 sequences assigned
545 (73.9%) exact matches, in which:
528 unique CDR3
7 unique J



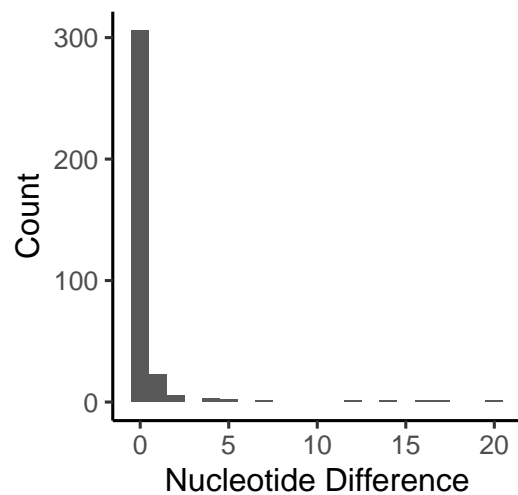
IGHV7-4-1*02

459 sequences assigned
400 (87.1%) exact matches, in which:
390 unique CDR3
7 unique J

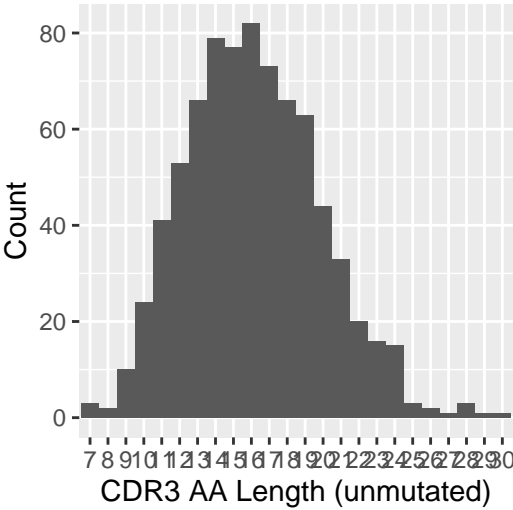


IGHV5-51*03

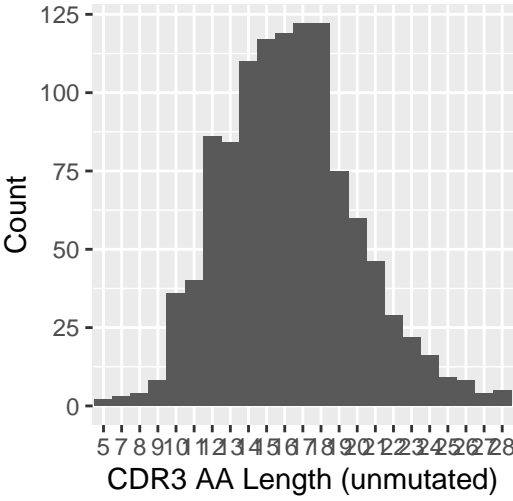
346 sequences assigned
306 (88.4%) exact matches, in which:
297 unique CDR3
6 unique J



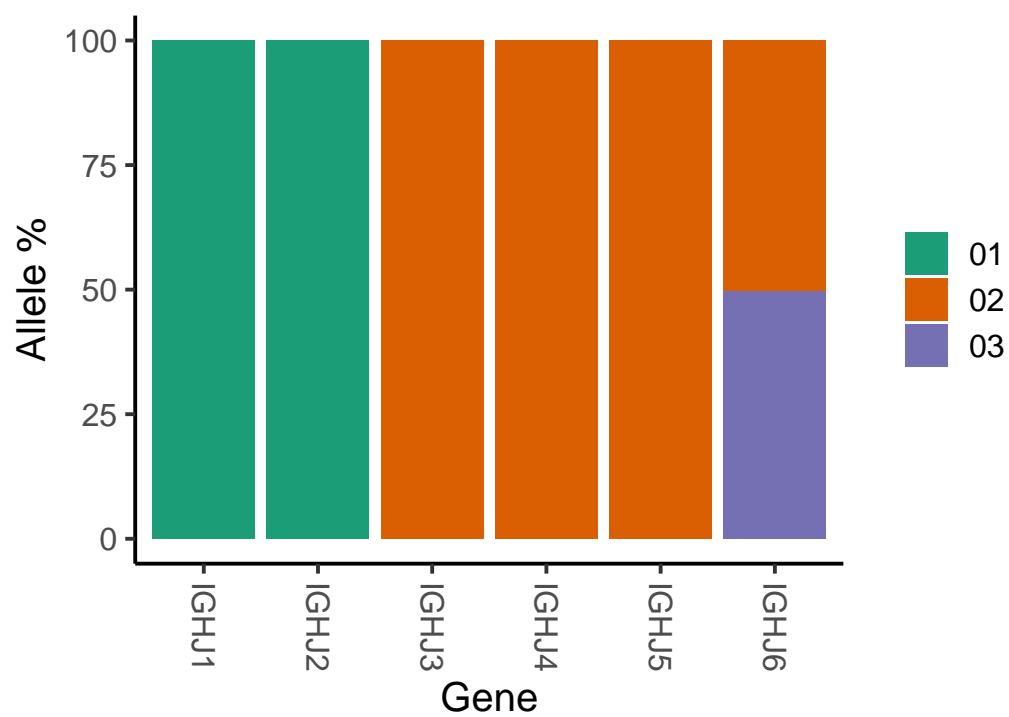
IGHV1-69*08_C191T



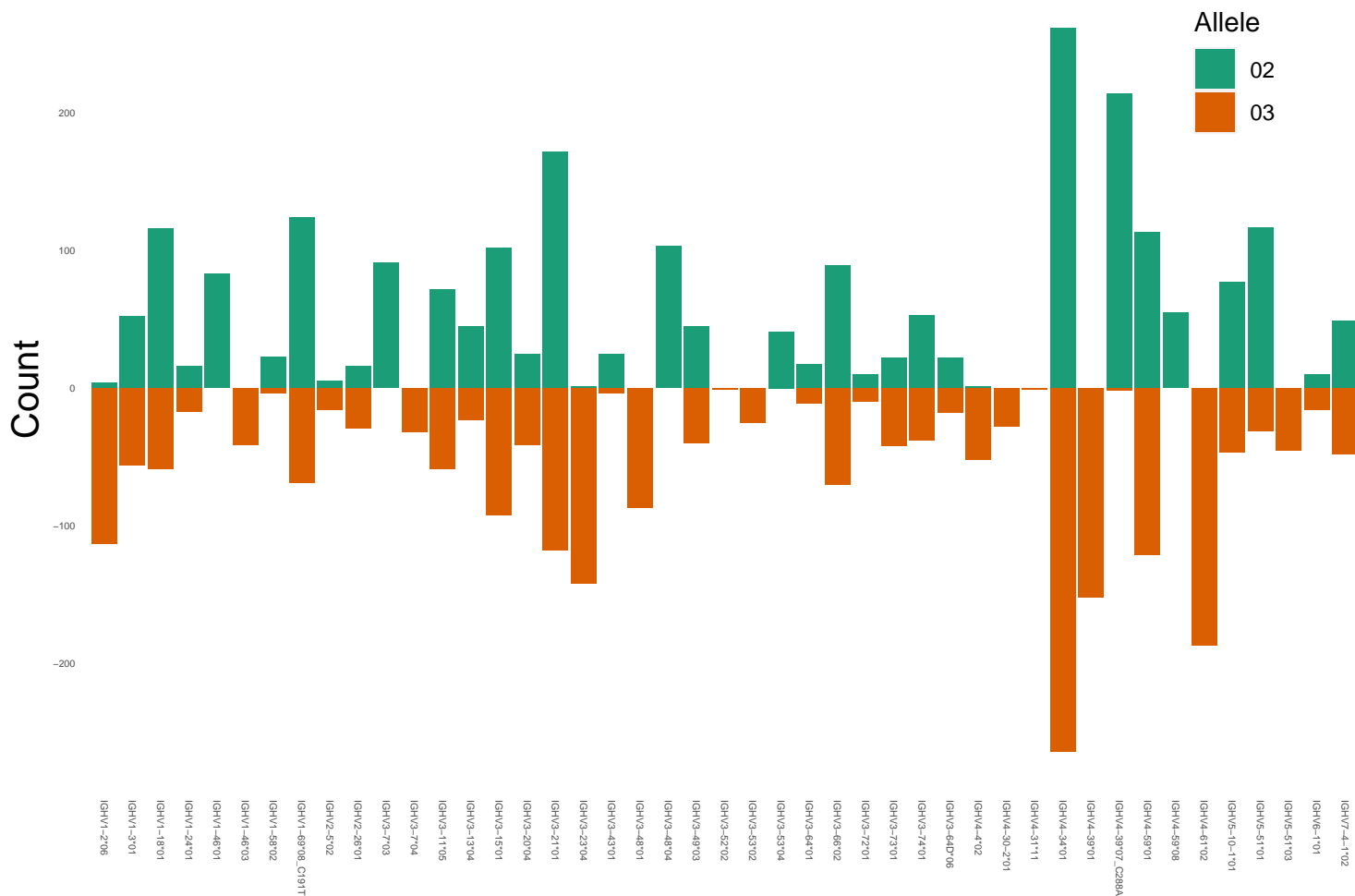
IGHV4-39*07_C288A



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.