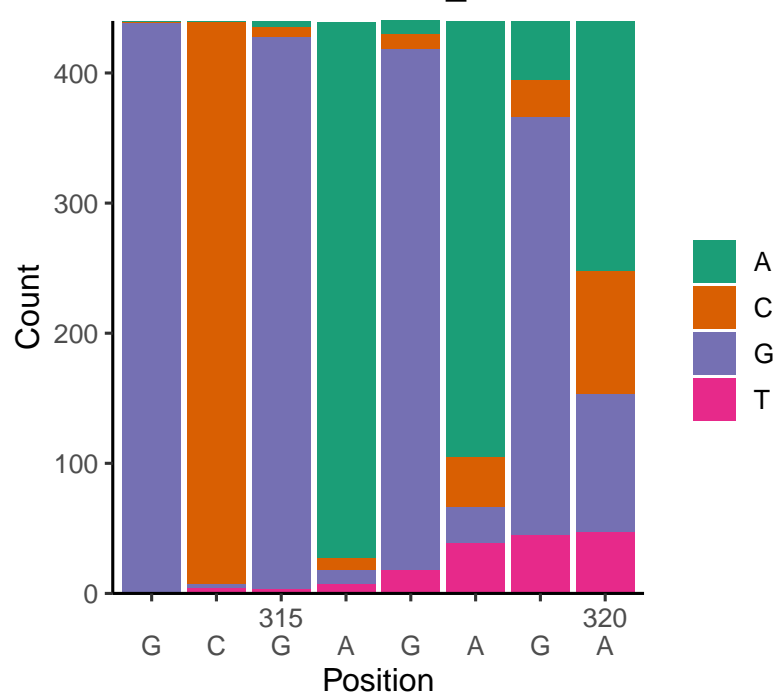
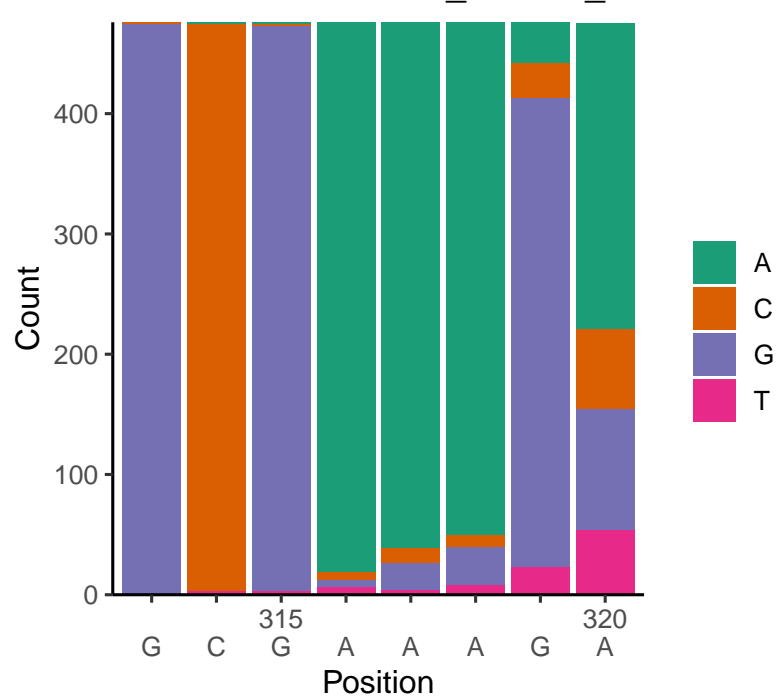


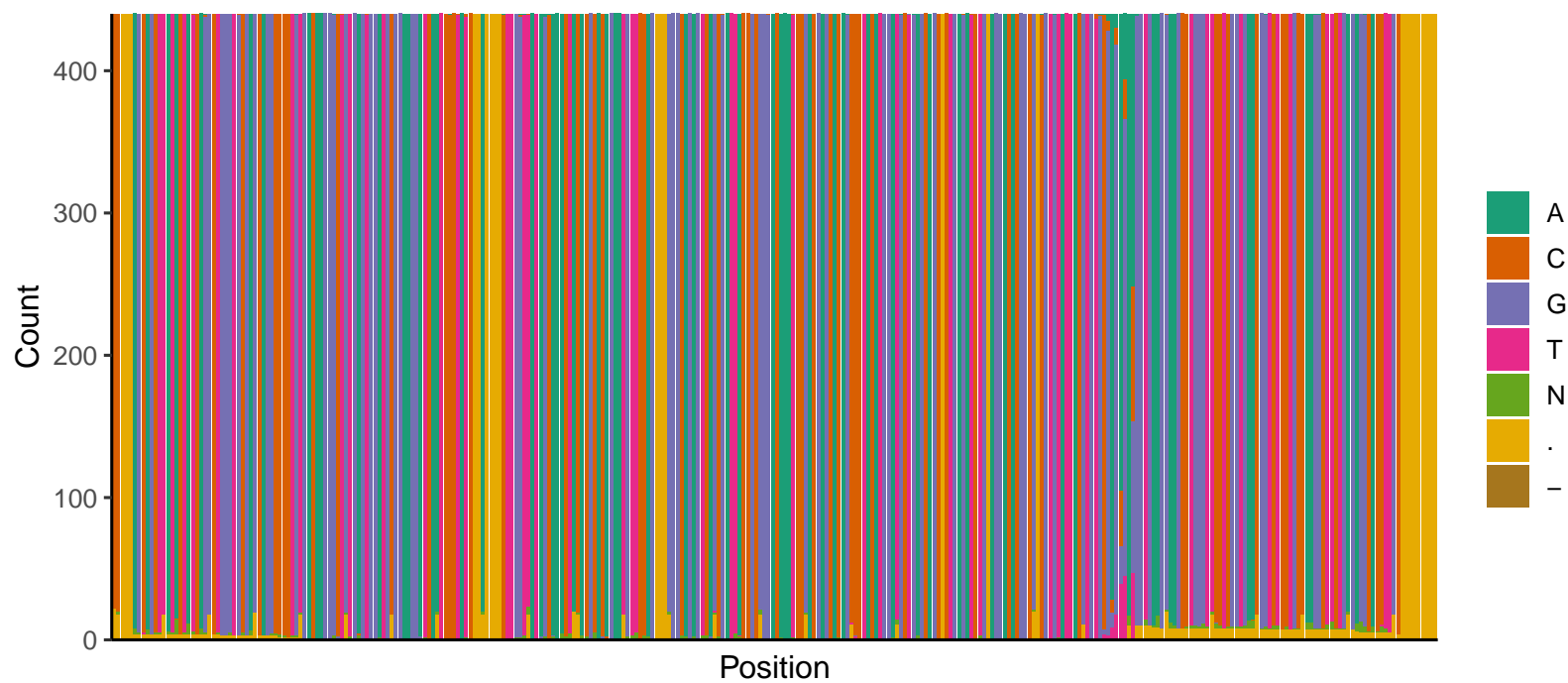
Gene IGHV1-69*08_C191T



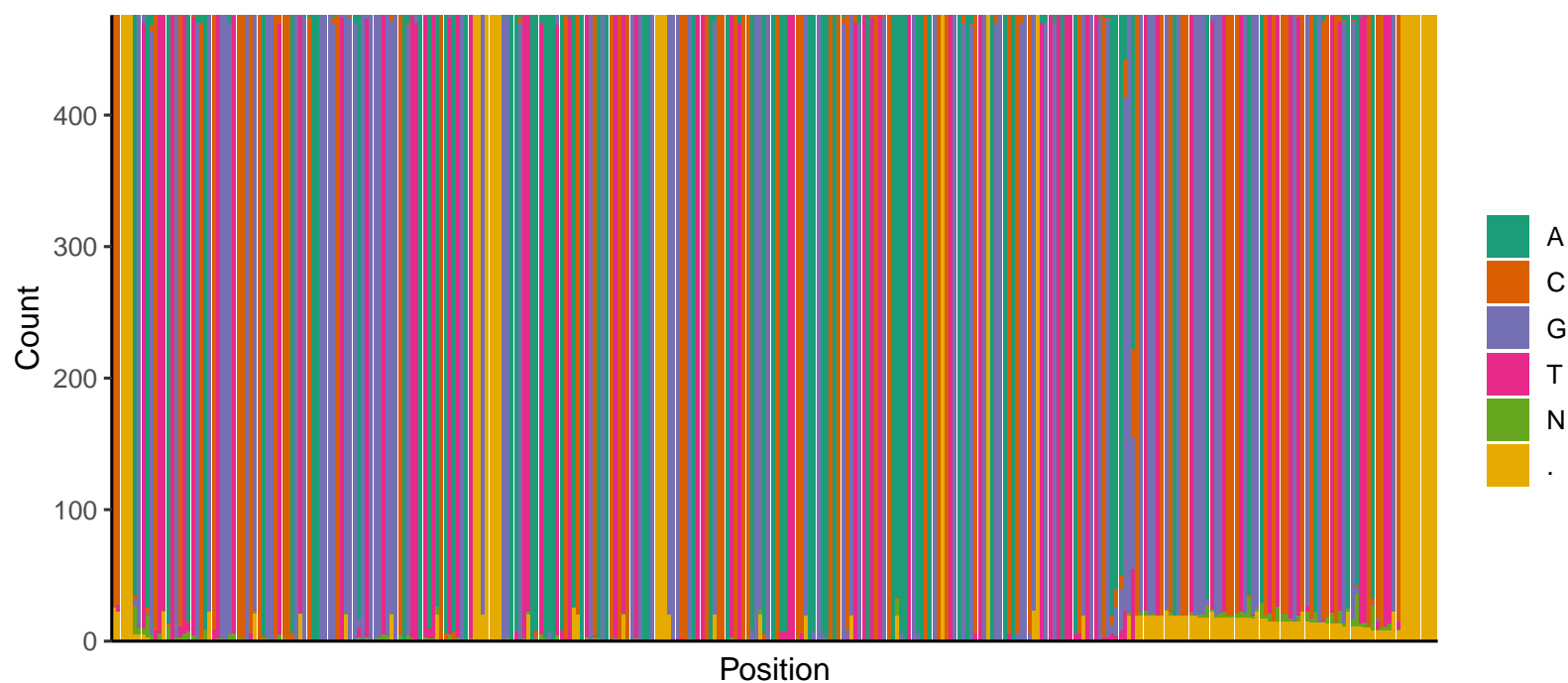
Gene IGHV3-30*18_G113C_C114T



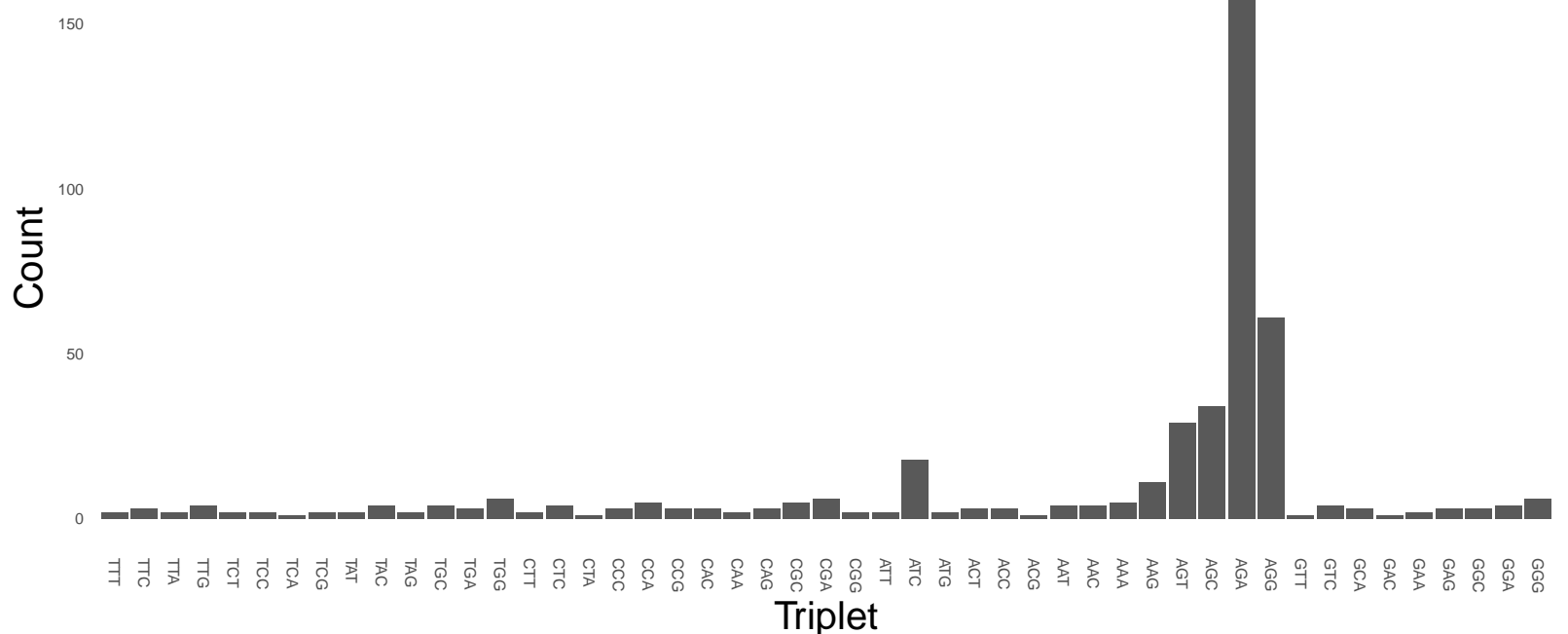
Gene IGHV1-69*08_C191T



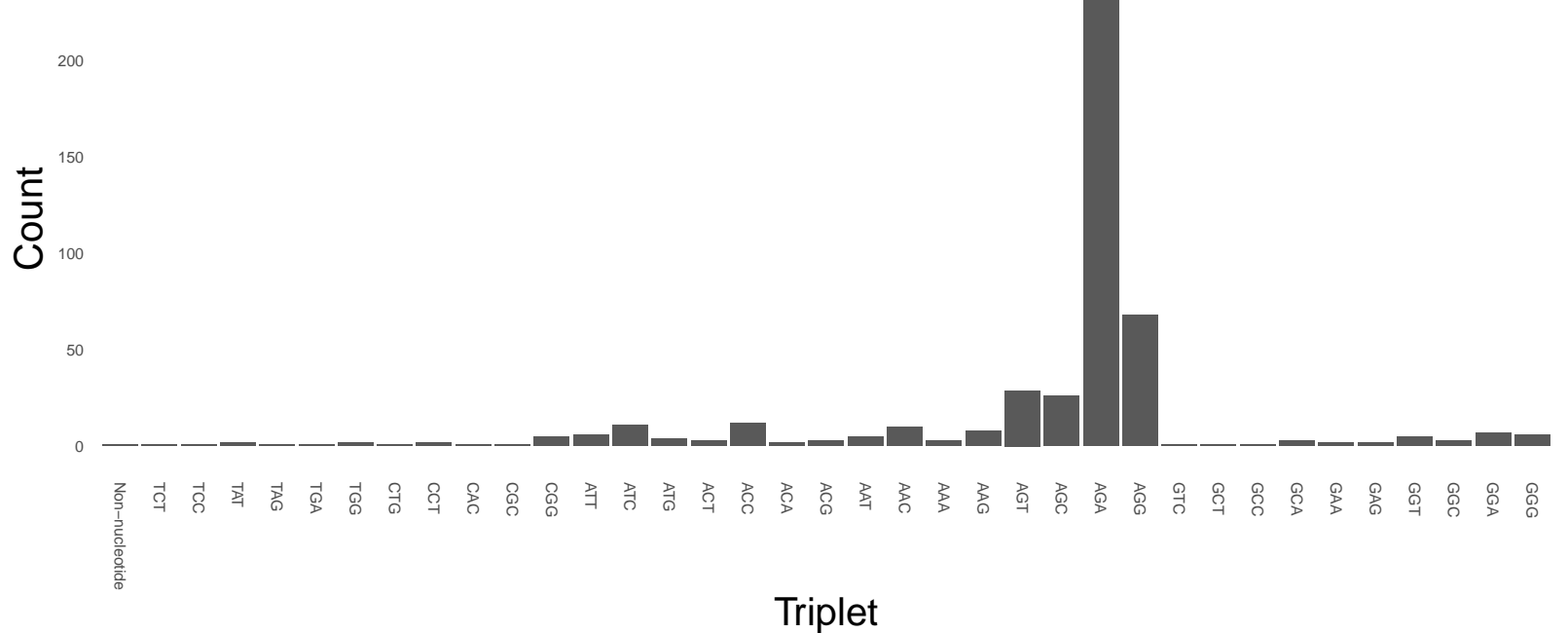
Gene IGHV3-30*18_G113C_C114T



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

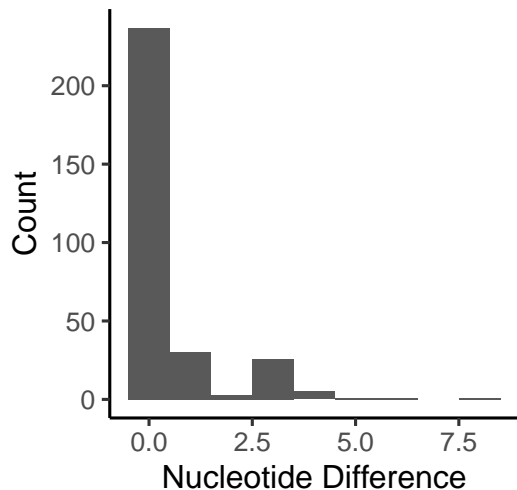


IGHV3-30*18_G113C_C114T- Final 3 nucleotides as a triplet



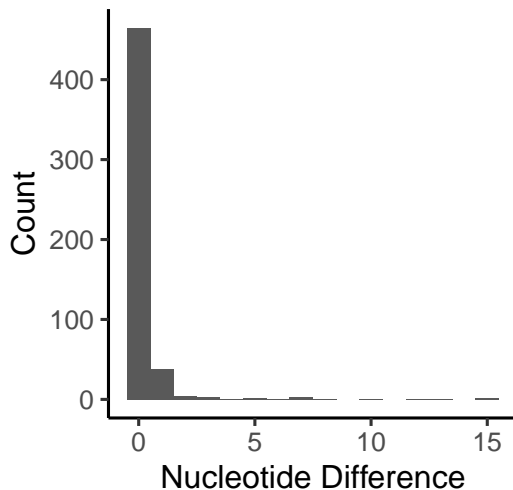
IGHV1-2*04

304 sequences assigned
237 (78%) exact matches, in which:
229 unique CDR3
7 unique J



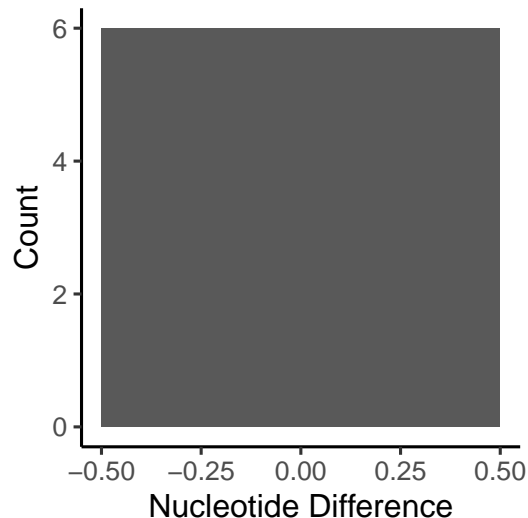
IGHV1-18*01

524 sequences assigned
465 (88.7%) exact matches, in which:
438 unique CDR3
7 unique J



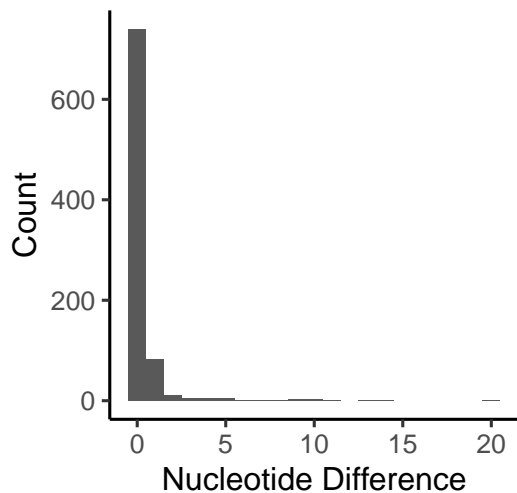
IGHV1-45*02

6 sequences assigned
6 (100%) exact matches, in which:
6 unique CDR3
3 unique J



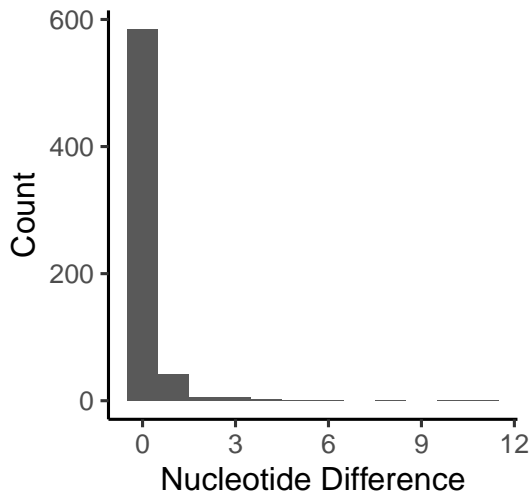
IGHV1-3*01

861 sequences assigned
740 (85.9%) exact matches, in which:
713 unique CDR3
7 unique J



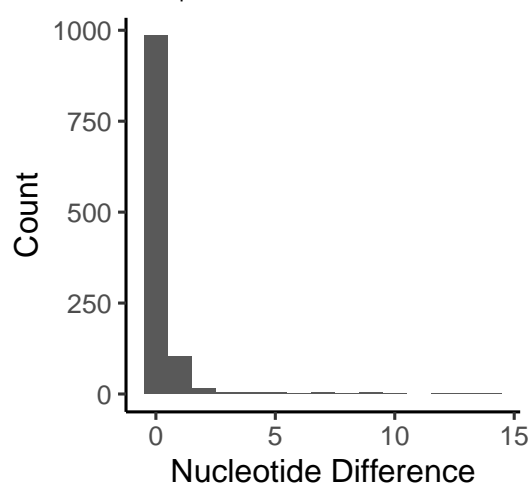
IGHV1-18*04

646 sequences assigned
585 (90.6%) exact matches, in which:
561 unique CDR3
6 unique J



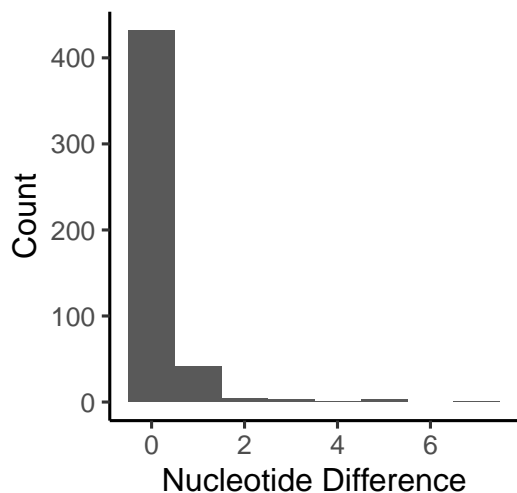
IGHV1-46*01

1130 sequences assigned
985 (87.2%) exact matches, in which:
933 unique CDR3
7 unique J



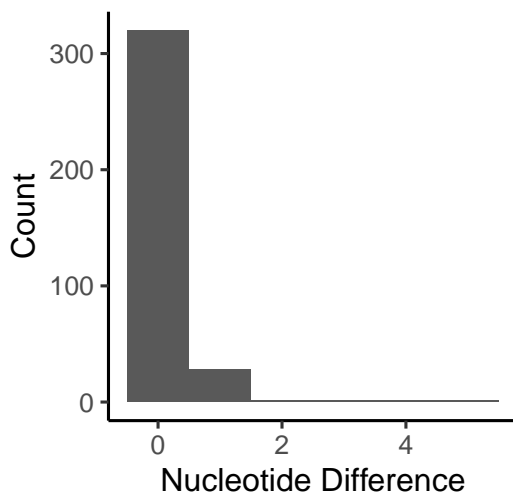
IGHV1-8*01

485 sequences assigned
432 (89.1%) exact matches, in which:
404 unique CDR3
6 unique J



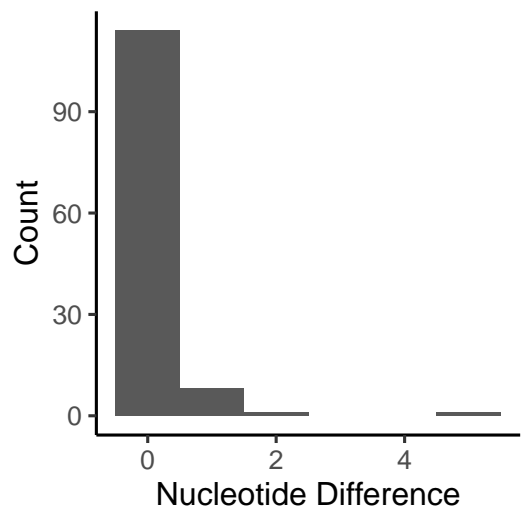
IGHV1-24*01

352 sequences assigned
320 (90.9%) exact matches, in which:
300 unique CDR3
7 unique J



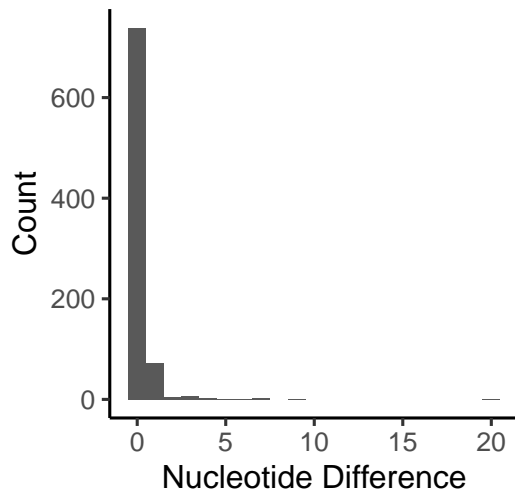
IGHV1-58*02

124 sequences assigned
114 (91.9%) exact matches, in which:
108 unique CDR3
6 unique J



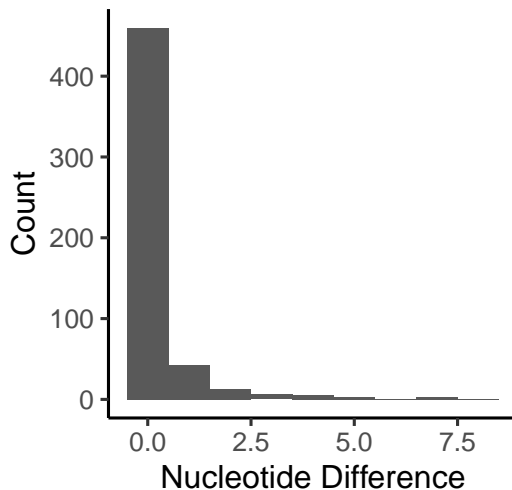
IGHV1–69*10

832 sequences assigned
739 (88.8%) exact matches, in which:
691 unique CDR3
7 unique J



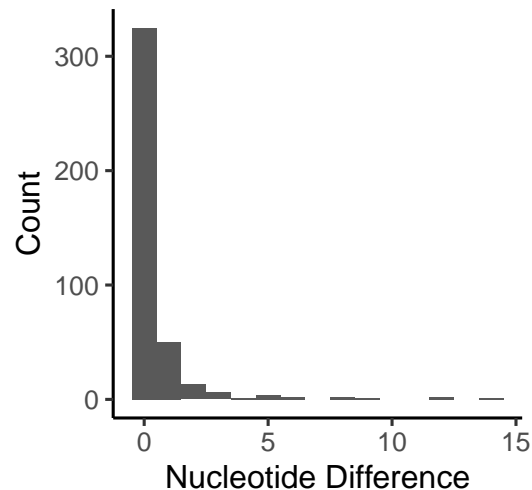
IGHV2–5*02

535 sequences assigned
460 (86%) exact matches, in which:
440 unique CDR3
6 unique J



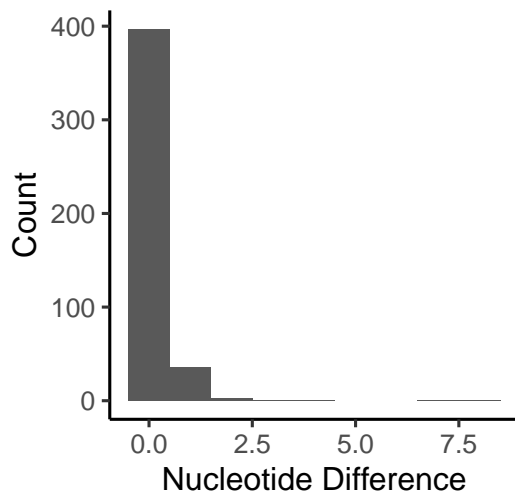
IGHV3–7*01

407 sequences assigned
325 (79.9%) exact matches, in which:
306 unique CDR3
7 unique J



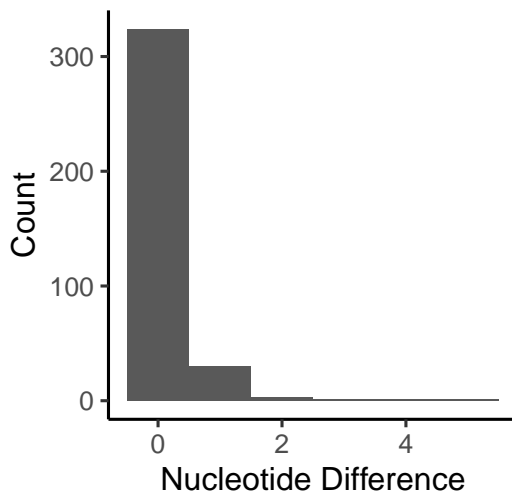
IGHV1–69*08_C191T

440 sequences assigned
397 (90.2%) exact matches, in which:
364 unique CDR3
6 unique J



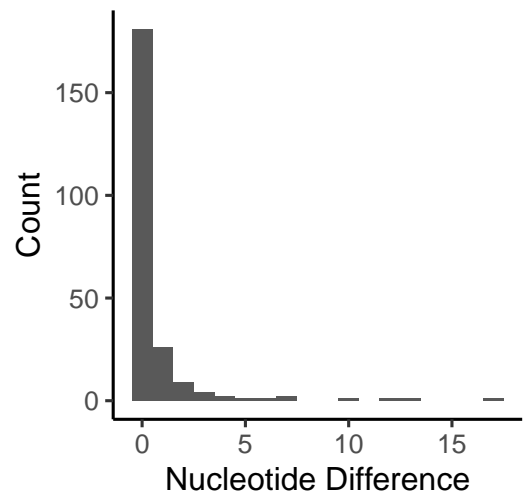
IGHV2–26*01

360 sequences assigned
324 (90%) exact matches, in which:
314 unique CDR3
7 unique J



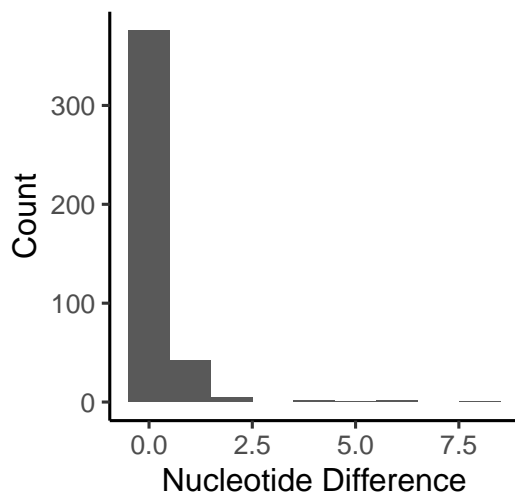
IGHV3–7*05

230 sequences assigned
181 (78.7%) exact matches, in which:
173 unique CDR3
6 unique J



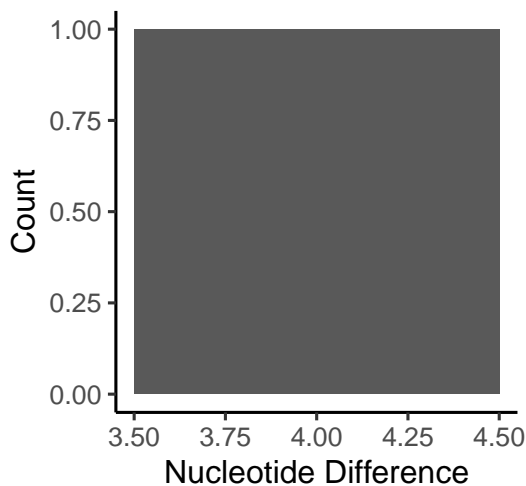
IGHV2–5*01

430 sequences assigned
376 (87.4%) exact matches, in which:
363 unique CDR3
6 unique J



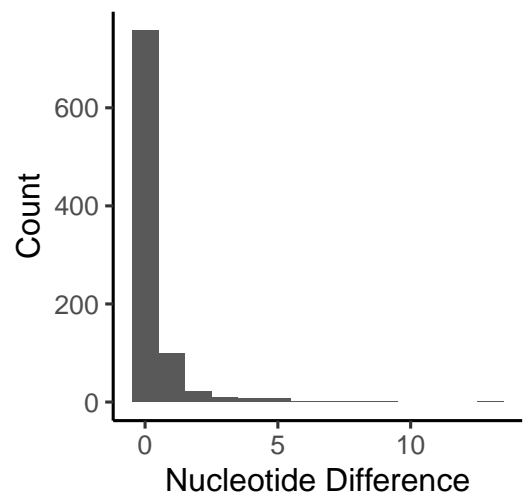
IGHV2–70*12

4 sequences assigned
No exact matches.



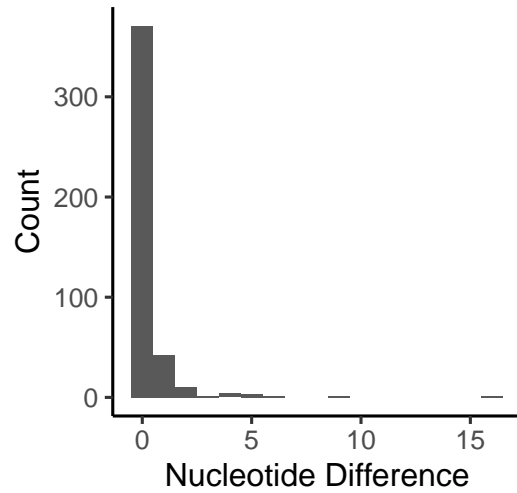
IGHV3–9*01

908 sequences assigned
758 (83.5%) exact matches, in which:
695 unique CDR3
7 unique J



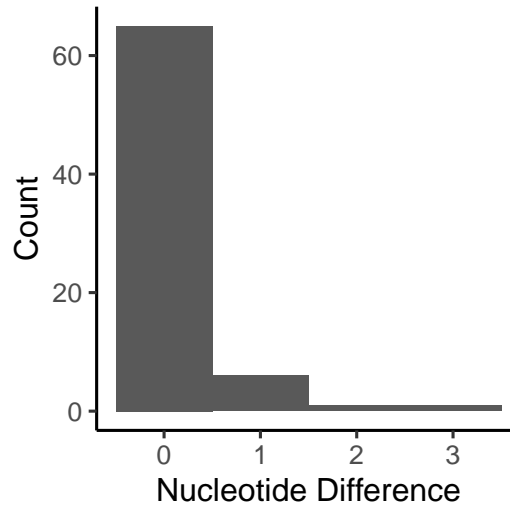
IGHV3-11*01

434 sequences assigned
371 (85.5%) exact matches, in which:
350 unique CDR3
6 unique J



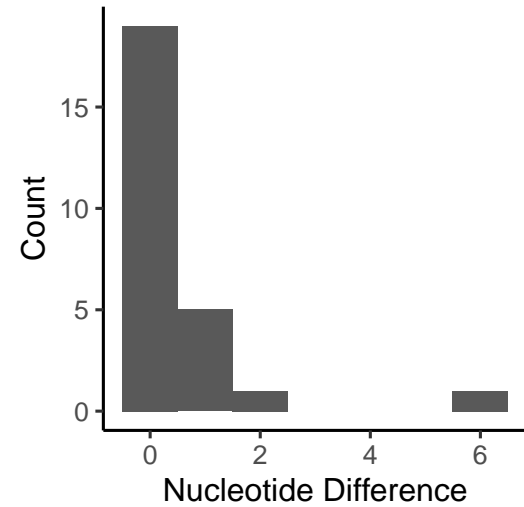
IGHV3-13*05

73 sequences assigned
65 (89%) exact matches, in which:
61 unique CDR3
5 unique J



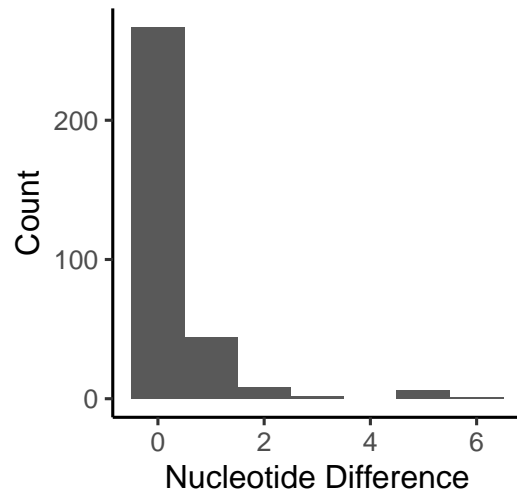
IGHV3-20*04

26 sequences assigned
19 (73.1%) exact matches, in which:
19 unique CDR3
5 unique J



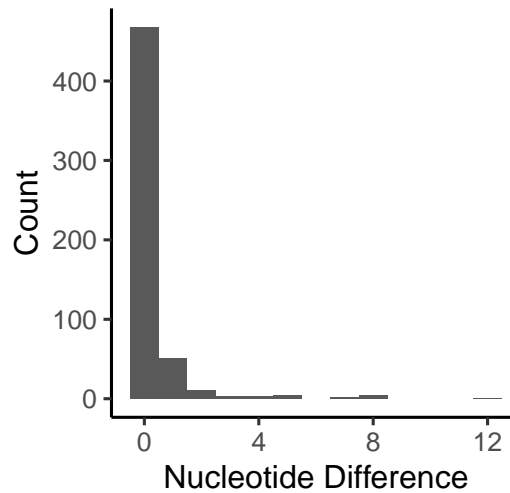
IGHV3-11*06

328 sequences assigned
267 (81.4%) exact matches, in which:
248 unique CDR3
6 unique J



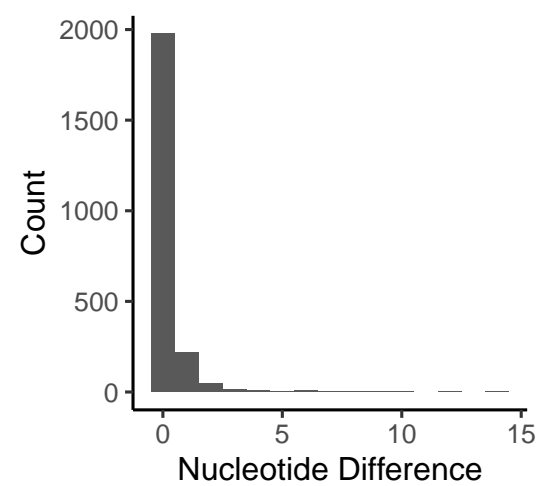
IGHV3-15*01

549 sequences assigned
468 (85.2%) exact matches, in which:
436 unique CDR3
6 unique J



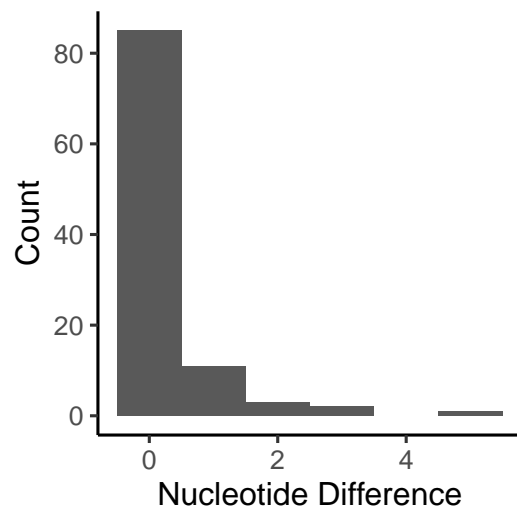
IGHV3-21*01

2290 sequences assigned
1977 (86.3%) exact matches, in which:
1818 unique CDR3
7 unique J



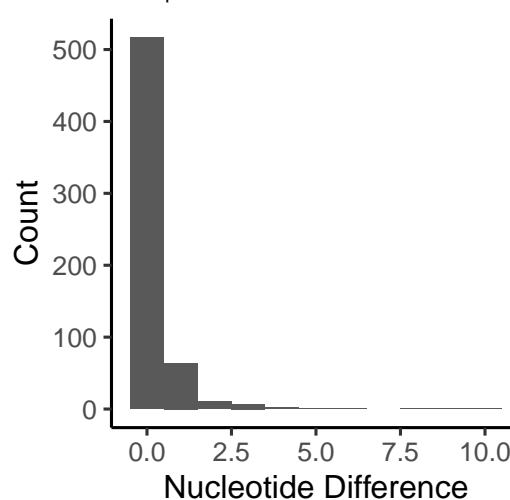
IGHV3-13*01

102 sequences assigned
85 (83.3%) exact matches, in which:
81 unique CDR3
5 unique J



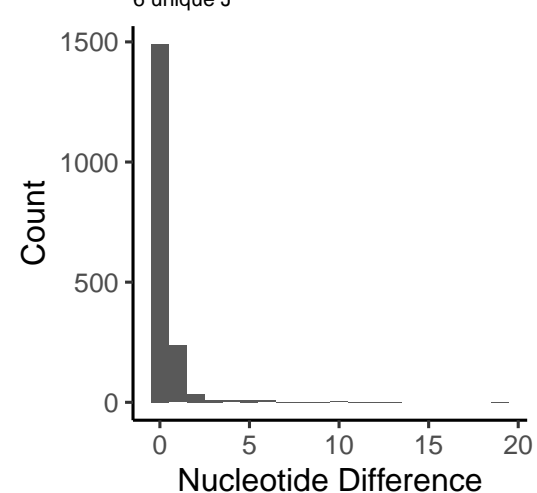
IGHV3-15*07

606 sequences assigned
517 (85.3%) exact matches, in which:
479 unique CDR3
7 unique J



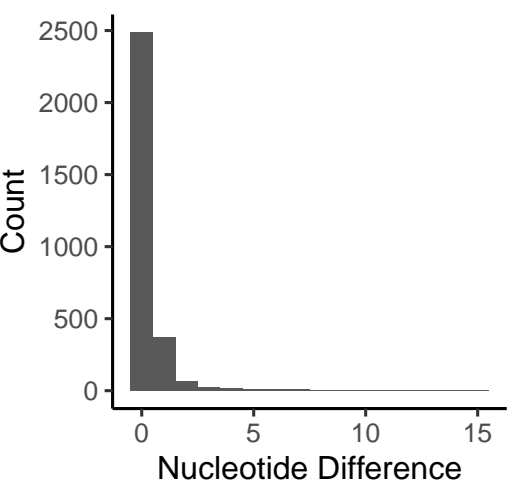
IGHV3-23*04

1809 sequences assigned
1491 (82.4%) exact matches, in which:
1390 unique CDR3
6 unique J



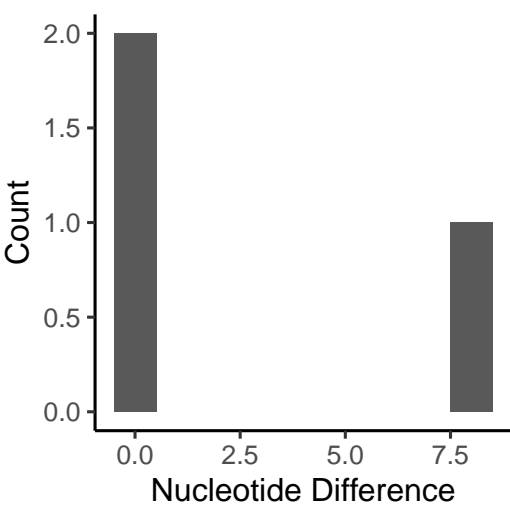
IGHV3-30-3*01

3029 sequences assigned
2487 (82.1%) exact matches, in which:
2306 unique CDR3
7 unique J



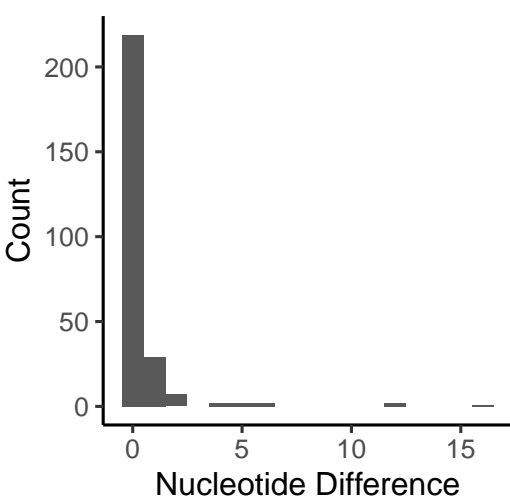
IGHV3-38-3*01

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



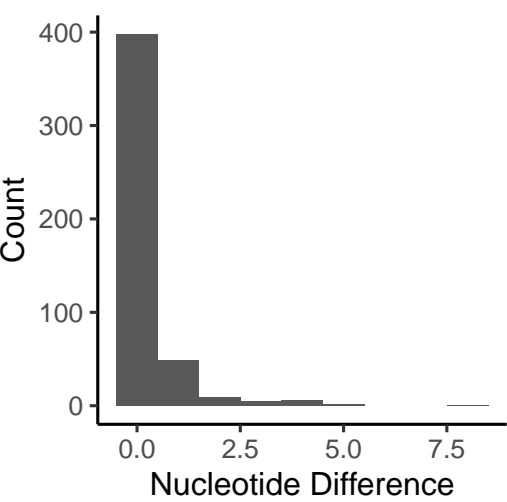
IGHV3-49*04

264 sequences assigned
219 (83%) exact matches, in which:
206 unique CDR3
6 unique J



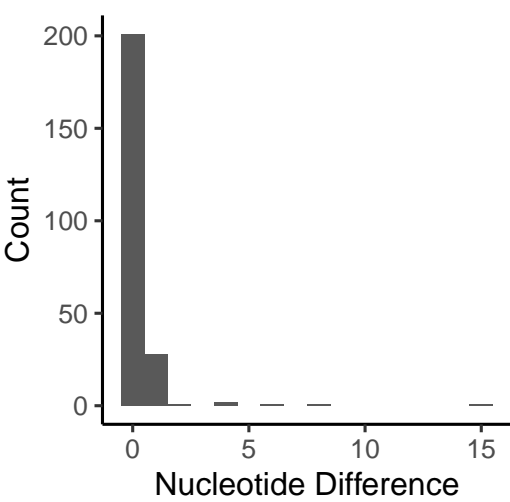
IGHV3-30*18_G113C_C

476 sequences assigned
398 (83.6%) exact matches, in which:
376 unique CDR3
7 unique J



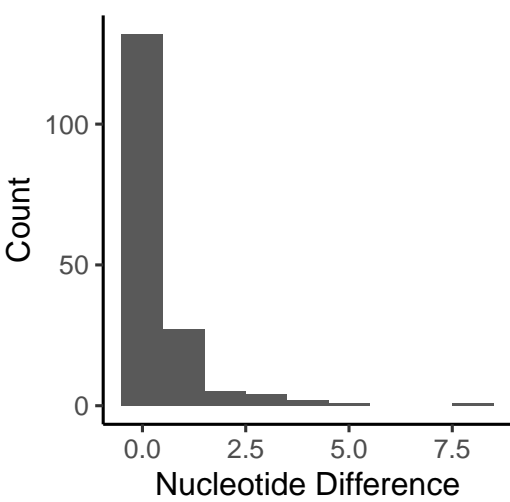
IGHV3-43*01

235 sequences assigned
201 (85.5%) exact matches, in which:
184 unique CDR3
7 unique J



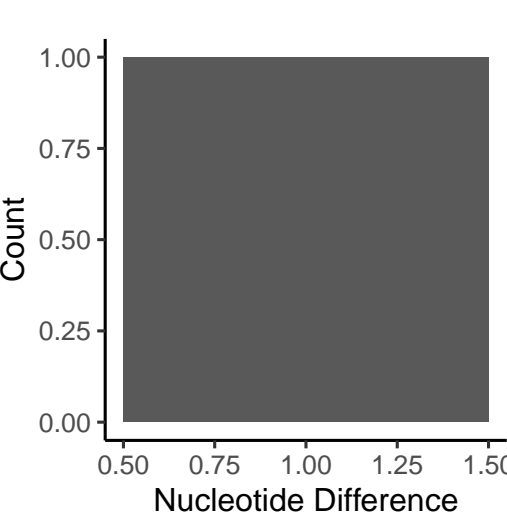
IGHV3-49*05

172 sequences assigned
132 (76.7%) exact matches, in which:
129 unique CDR3
5 unique J



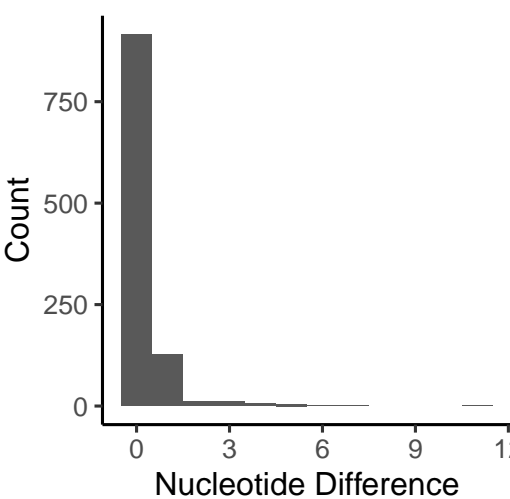
IGHV3-33*06

1 sequences assigned
No exact matches.



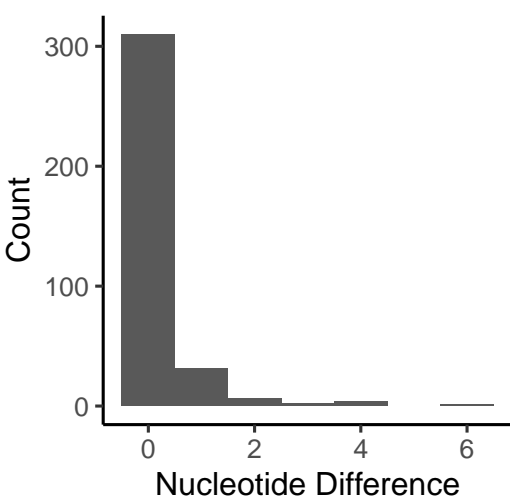
IGHV3-48*02

1080 sequences assigned
916 (84.8%) exact matches, in which:
864 unique CDR3
7 unique J



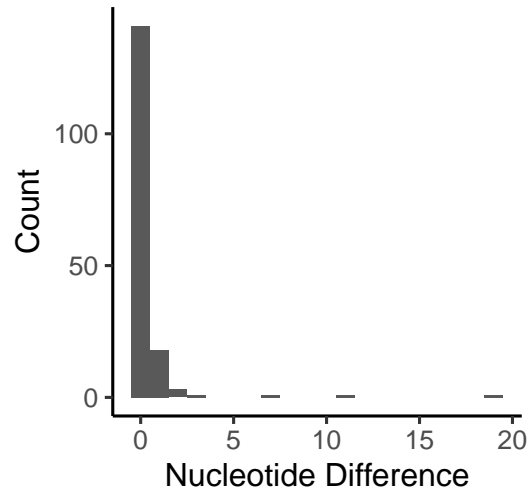
IGHV3-53*01

354 sequences assigned
310 (87.6%) exact matches, in which:
288 unique CDR3
7 unique J



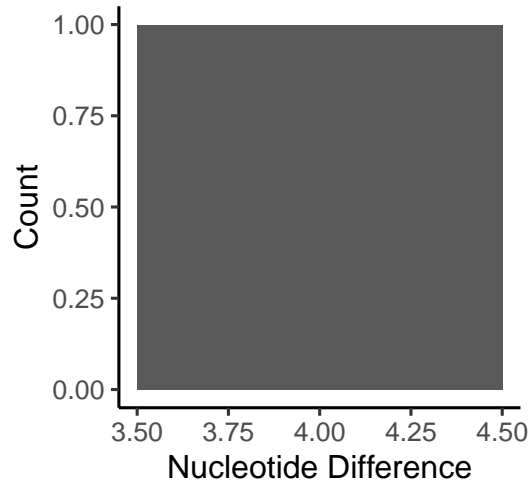
IGHV3–53*04

173 sequences assigned
141 (81.5%) exact matches, in which:
131 unique CDR3
6 unique J



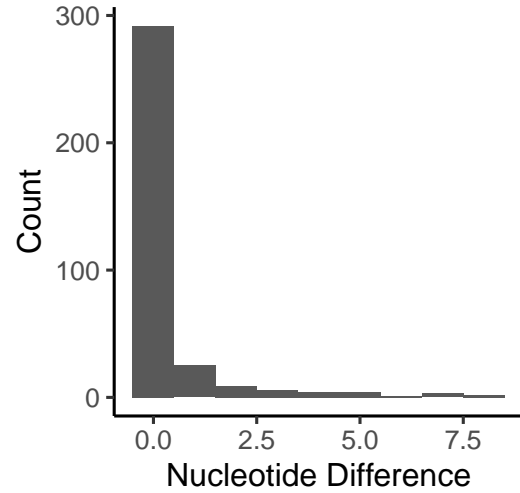
IGHV3–71*03

1 sequences assigned
No exact matches.



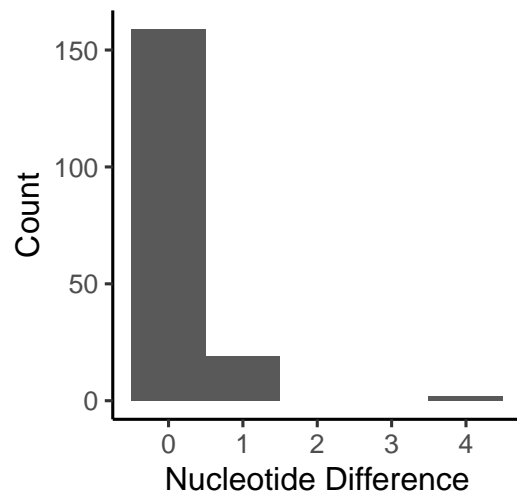
IGHV3–74*01

346 sequences assigned
292 (84.4%) exact matches, in which:
270 unique CDR3
7 unique J



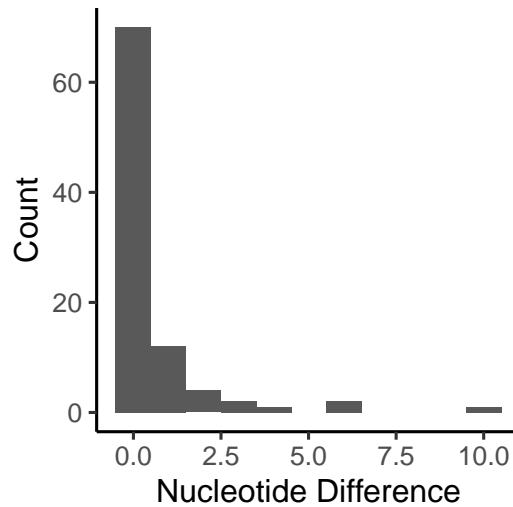
IGHV3–64*01

180 sequences assigned
159 (88.3%) exact matches, in which:
151 unique CDR3
7 unique J



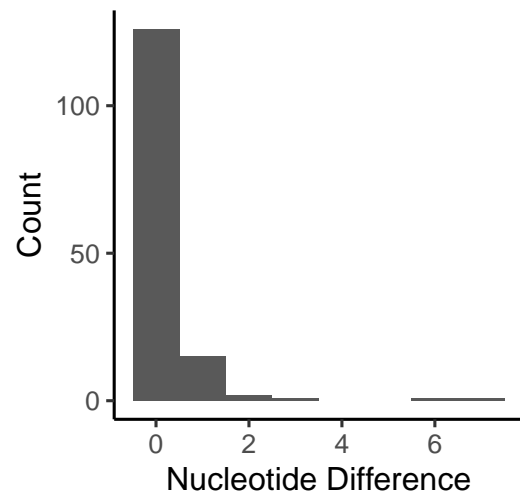
IGHV3–72*01

92 sequences assigned
70 (76.1%) exact matches, in which:
67 unique CDR3
6 unique J



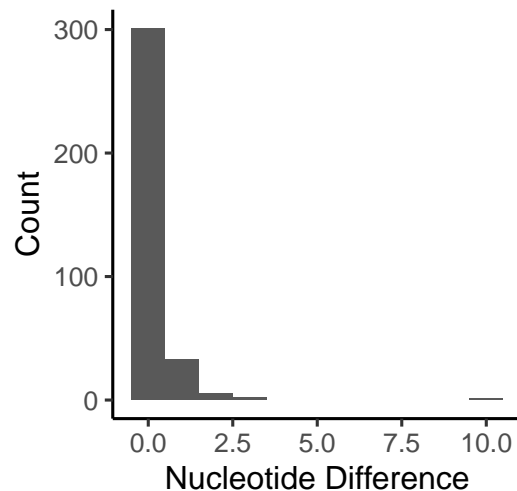
IGHV3–43D*03

146 sequences assigned
126 (86.3%) exact matches, in which:
122 unique CDR3
5 unique J



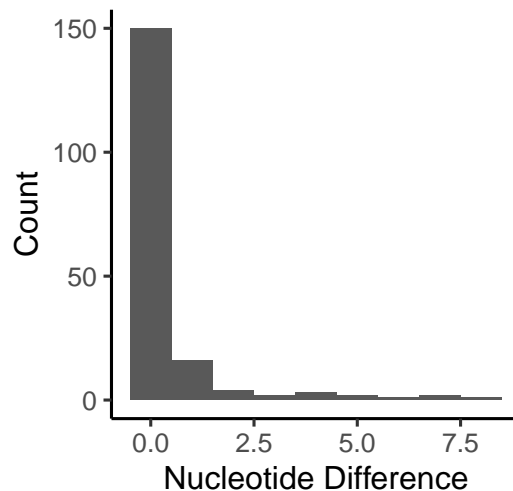
IGHV3–66*02

342 sequences assigned
301 (88%) exact matches, in which:
268 unique CDR3
6 unique J



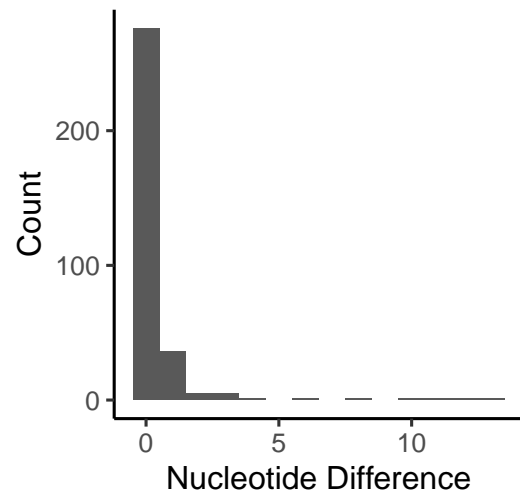
IGHV3–73*01

181 sequences assigned
150 (82.9%) exact matches, in which:
133 unique CDR3
6 unique J



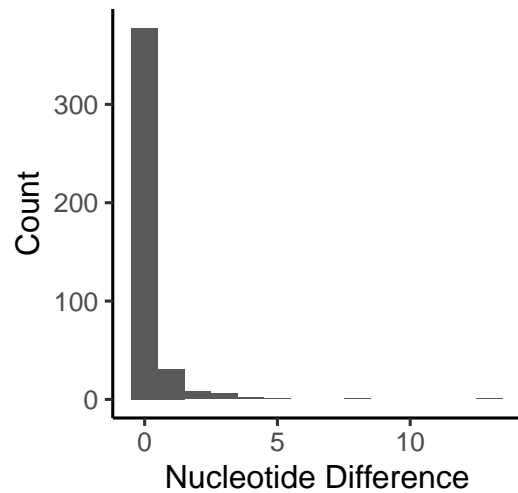
IGHV3–64D*08

329 sequences assigned
276 (83.9%) exact matches, in which:
255 unique CDR3
6 unique J



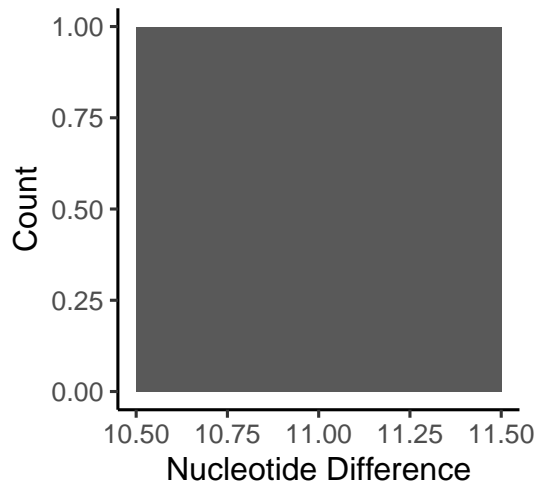
IGHV4-4*02

428 sequences assigned
378 (88.3%) exact matches, in which:
365 unique CDR3
6 unique J



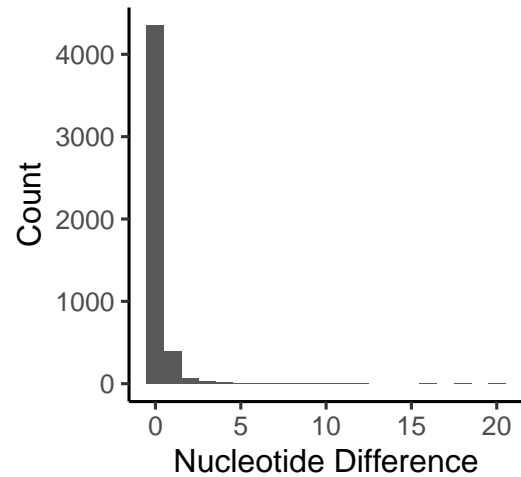
IGHV4-28*06

1 sequences assigned
No exact matches.



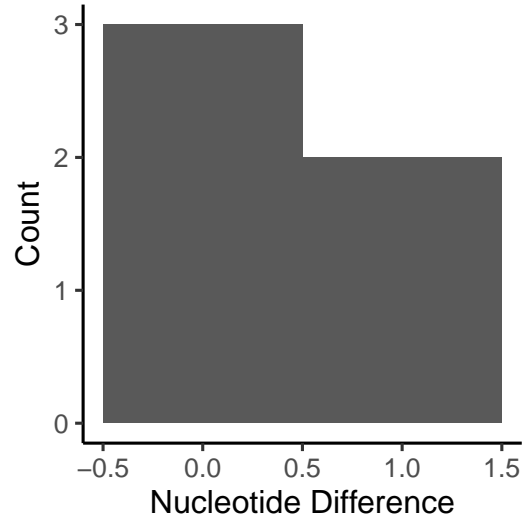
IGHV4-34*01

4898 sequences assigned
4351 (88.8%) exact matches, in which:
4063 unique CDR3
7 unique J



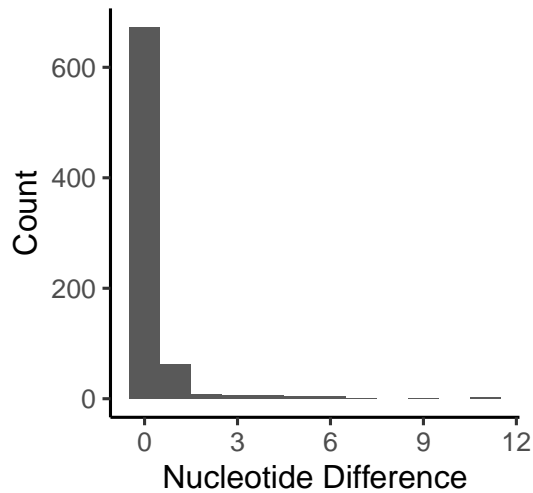
IGHV4-28*01

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
2 unique J



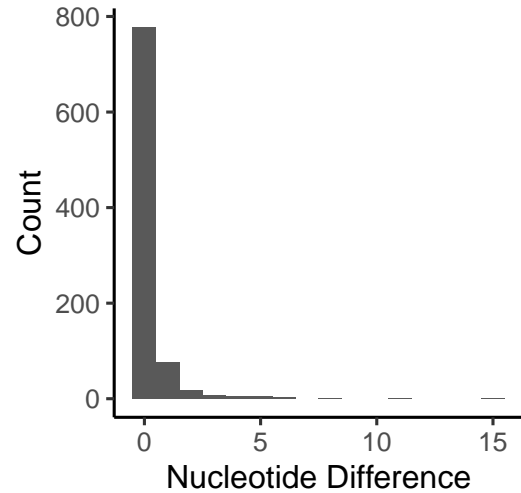
IGHV4-30-4*01

773 sequences assigned
673 (87.1%) exact matches, in which:
646 unique CDR3
7 unique J



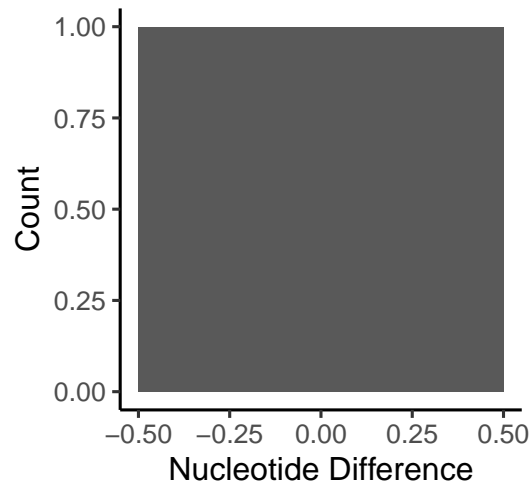
IGHV4-38-2*02

899 sequences assigned
778 (86.5%) exact matches, in which:
711 unique CDR3
6 unique J



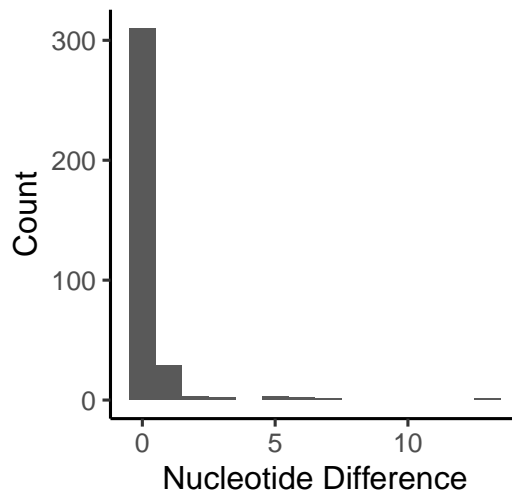
IGHV4-28*03

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



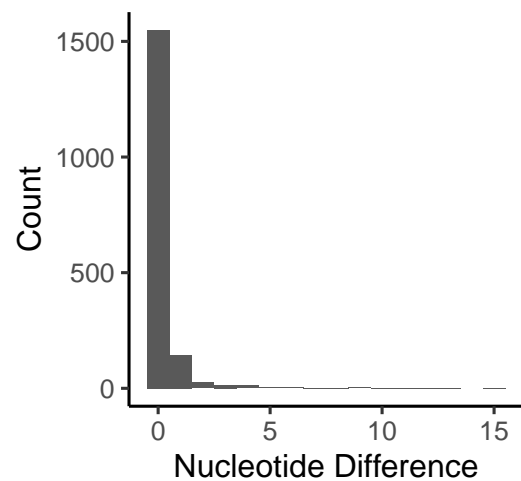
IGHV4-30-2*01

351 sequences assigned
310 (88.3%) exact matches, in which:
296 unique CDR3
7 unique J



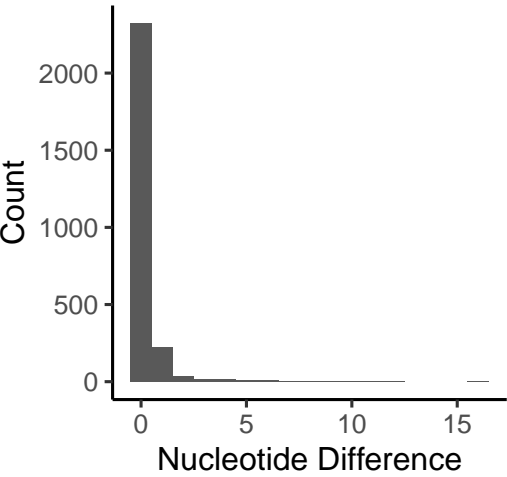
IGHV4-39*01

1769 sequences assigned
1549 (87.6%) exact matches, in which:
1415 unique CDR3
7 unique J



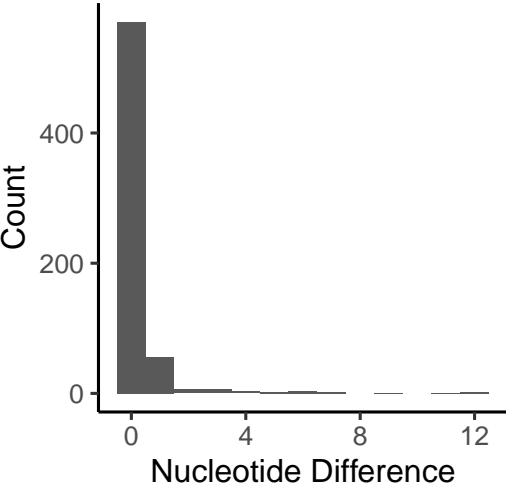
IGHV4–39*07

2654 sequences assigned
2322 (87.5%) exact matches, in which:
2138 unique CDR3
6 unique J



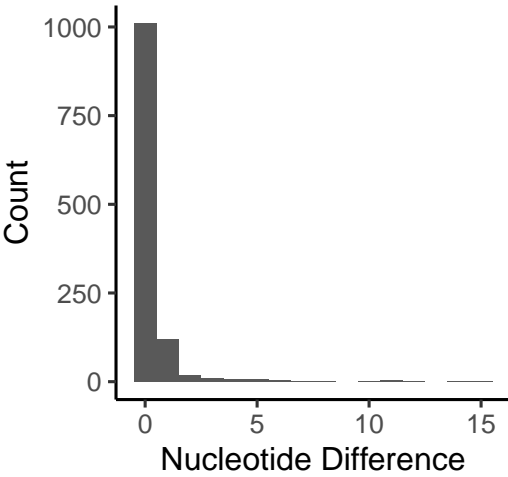
IGHV4–59*08

654 sequences assigned
571 (87.3%) exact matches, in which:
548 unique CDR3
7 unique J



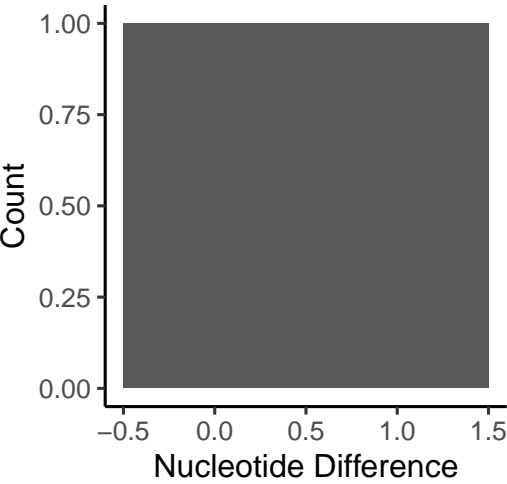
IGHV5–51*01

1193 sequences assigned
1010 (84.7%) exact matches, in which:
944 unique CDR3
7 unique J



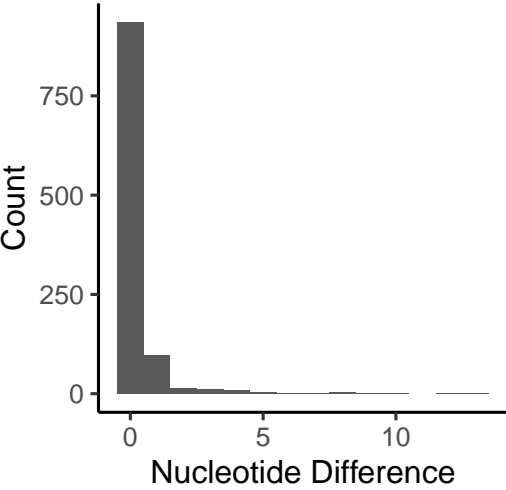
IGHV4–55*08

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



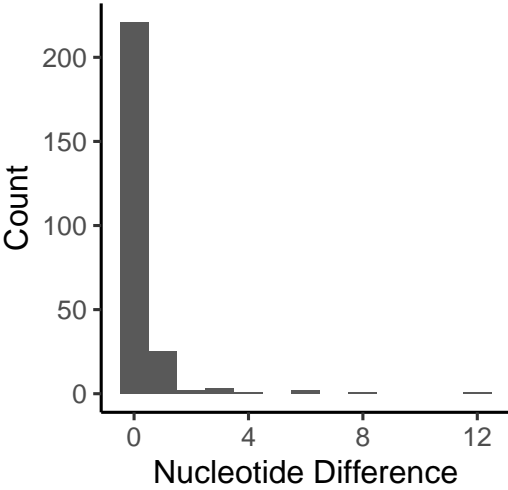
IGHV4–61*02

1082 sequences assigned
936 (86.5%) exact matches, in which:
890 unique CDR3
7 unique J



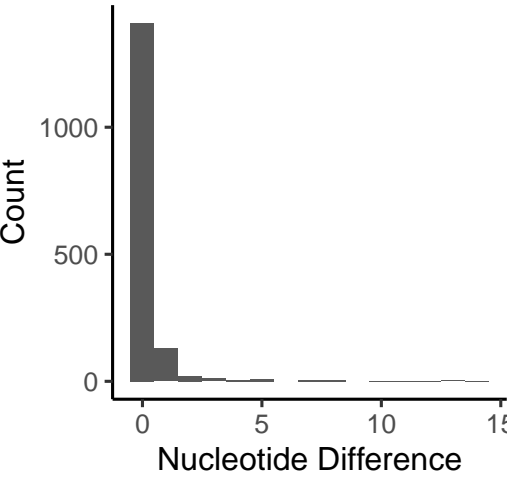
IGHV6–1*01

256 sequences assigned
221 (86.3%) exact matches, in which:
212 unique CDR3
6 unique J



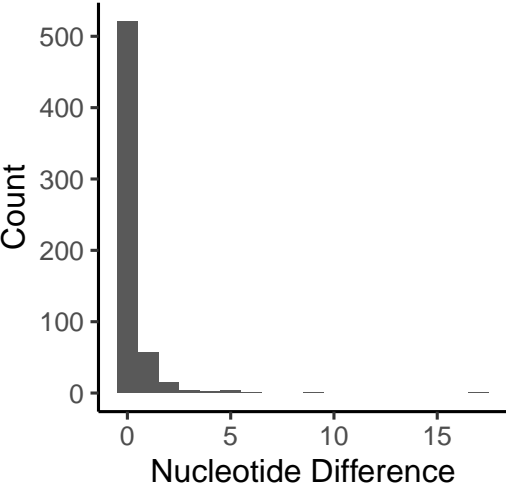
IGHV4–59*01

1600 sequences assigned
1410 (88.1%) exact matches, in which:
1346 unique CDR3
7 unique J



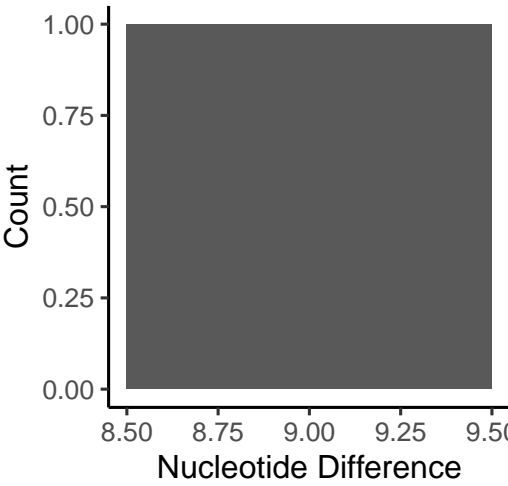
IGHV5–10–1*03

604 sequences assigned
521 (86.3%) exact matches, in which:
499 unique CDR3
7 unique J



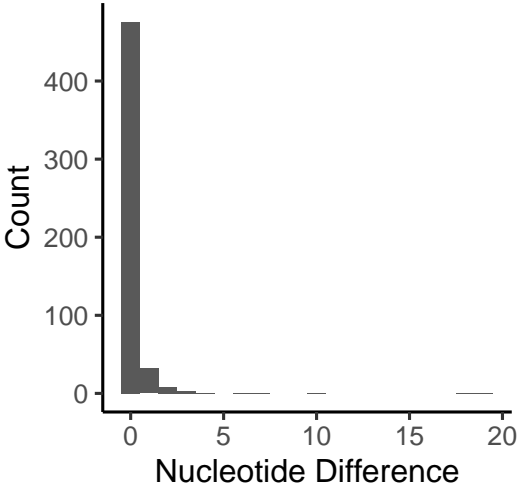
IGHV3/OR16–8*01

1 sequences assigned
No exact matches.

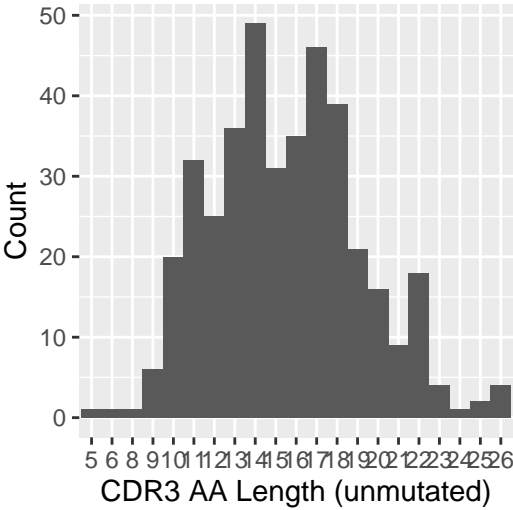


IGHV7-4-1*02

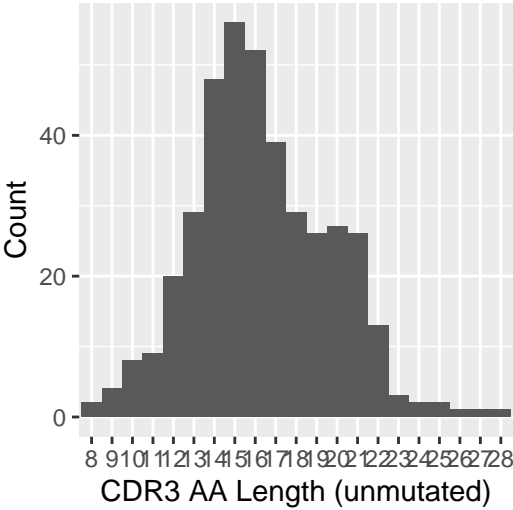
525 sequences assigned
476 (90.7%) exact matches, in which:
458 unique CDR3
6 unique J



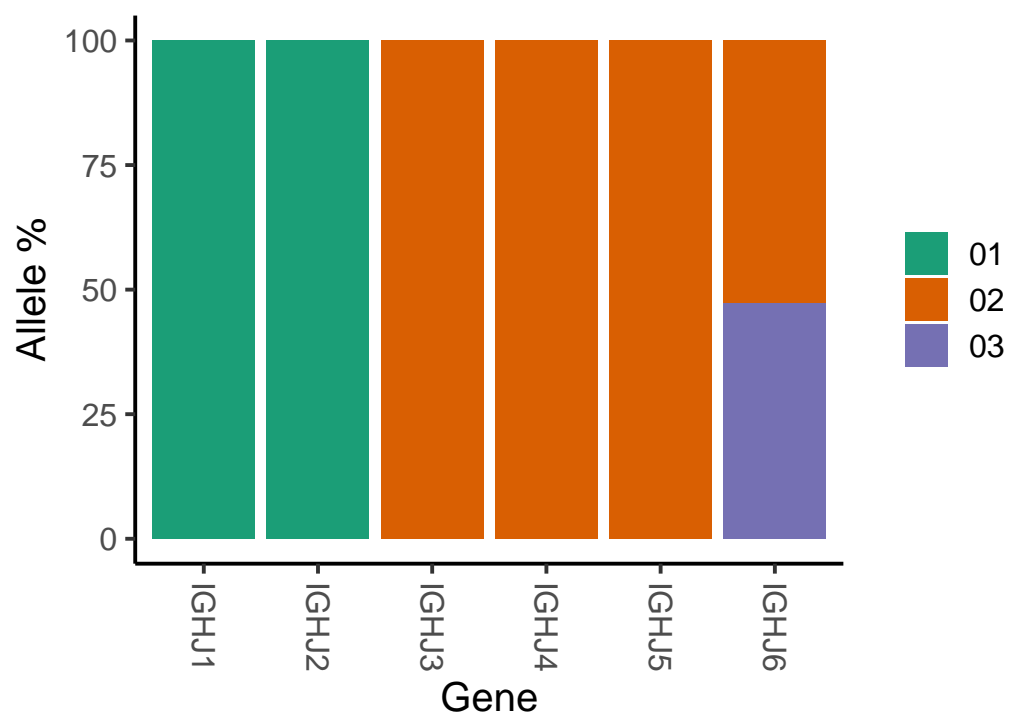
IGHV1-69*08_C191T



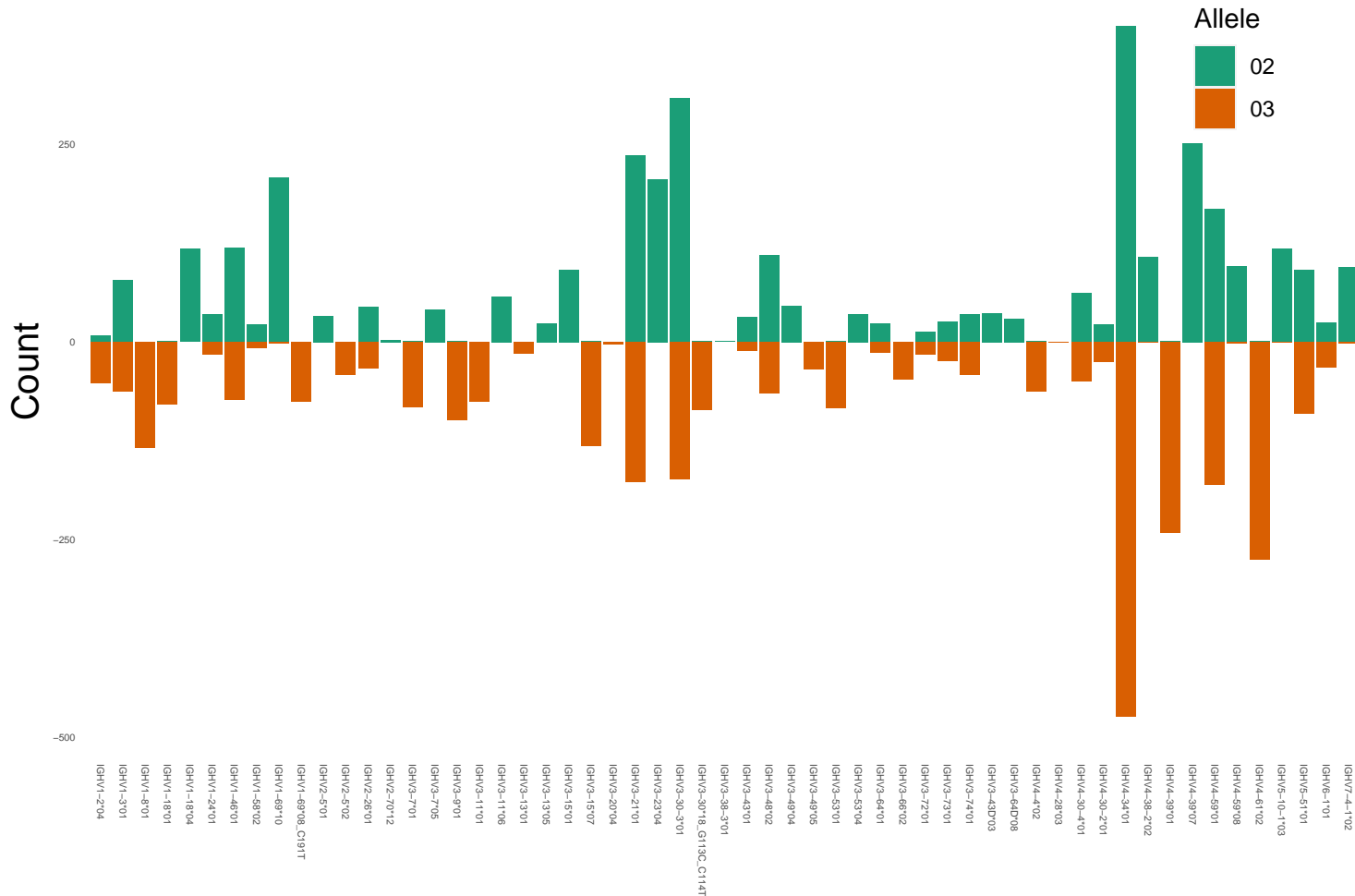
IGHV3-30*18_G113C_C114T



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

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