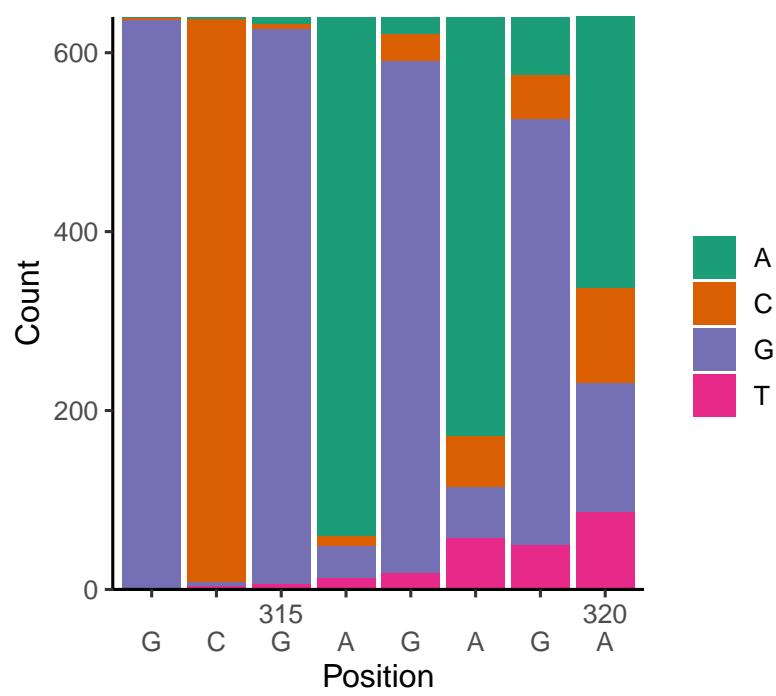
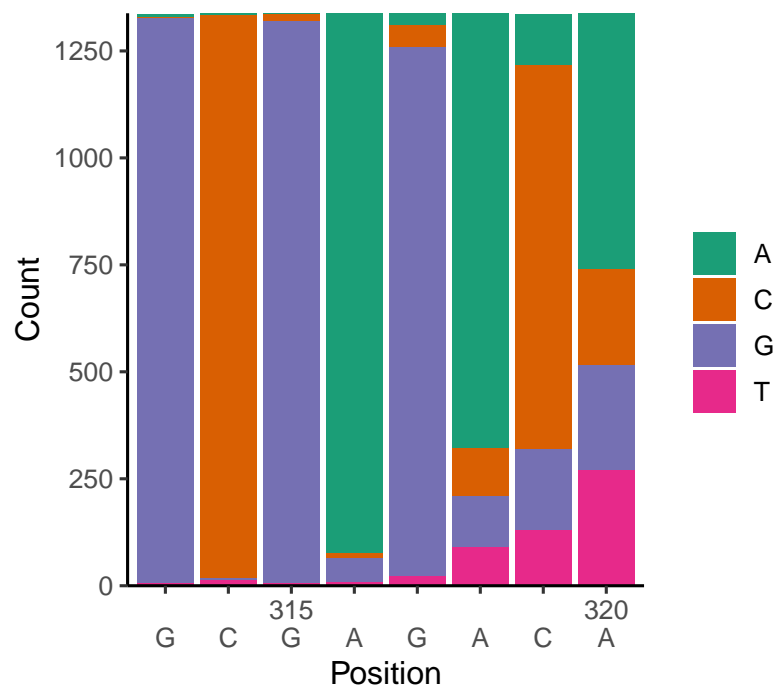


Gene IGHV1-69*08_C191T



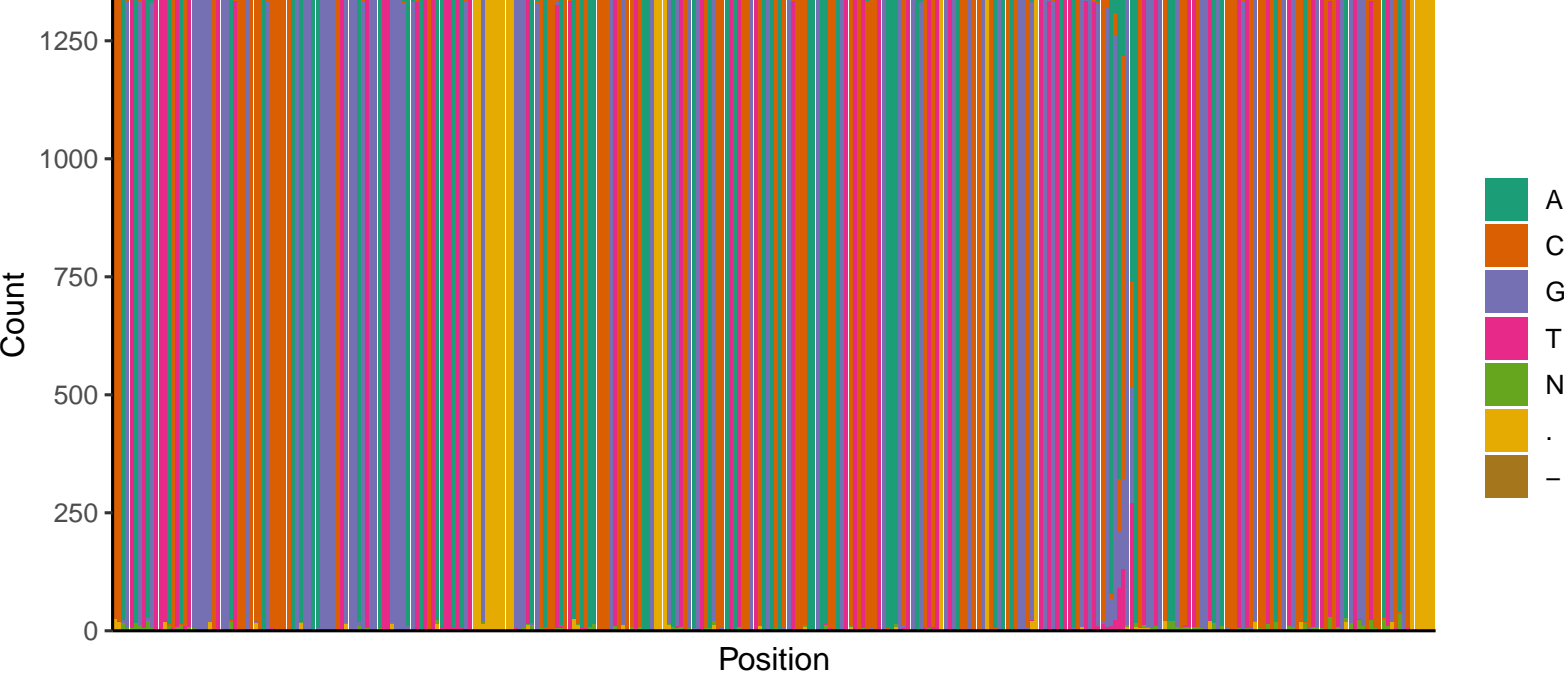
Gene IGHV4-39*01_C66G



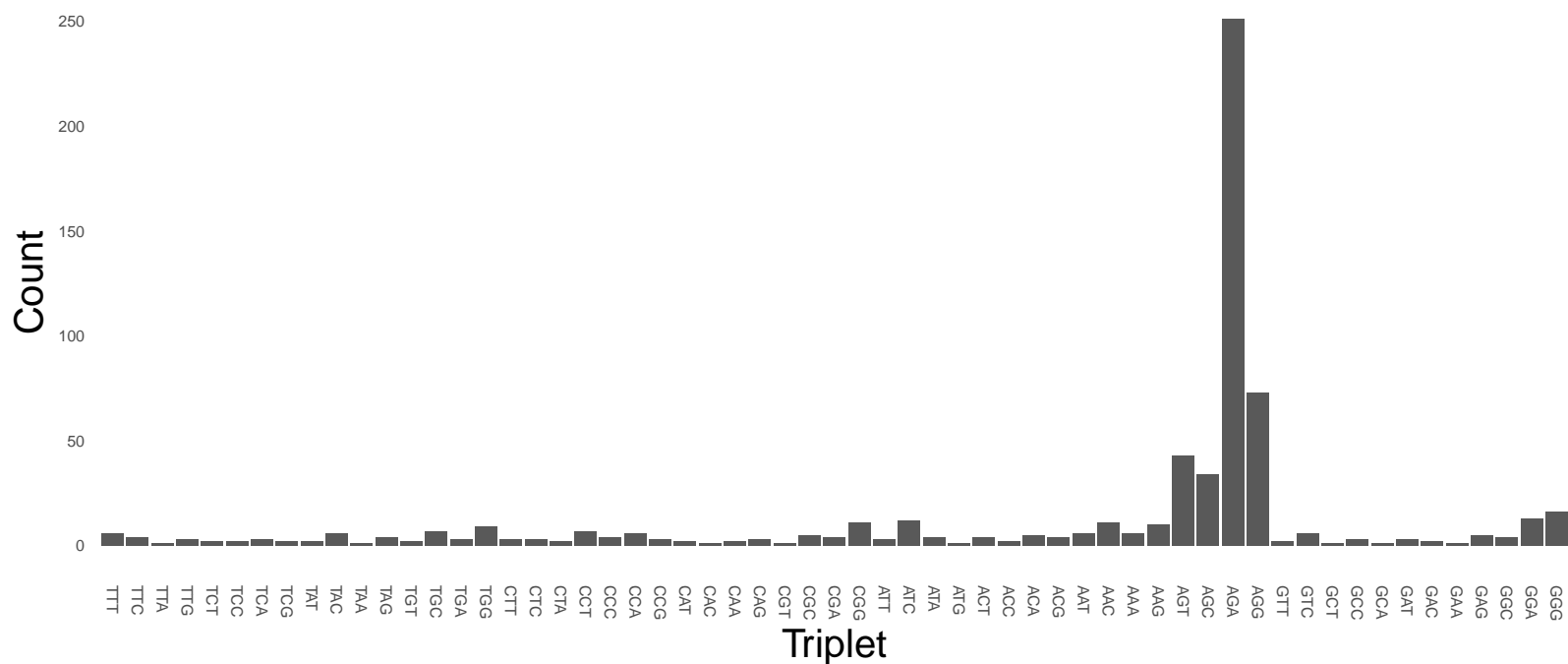
Gene IGHV1-69*08_C191T



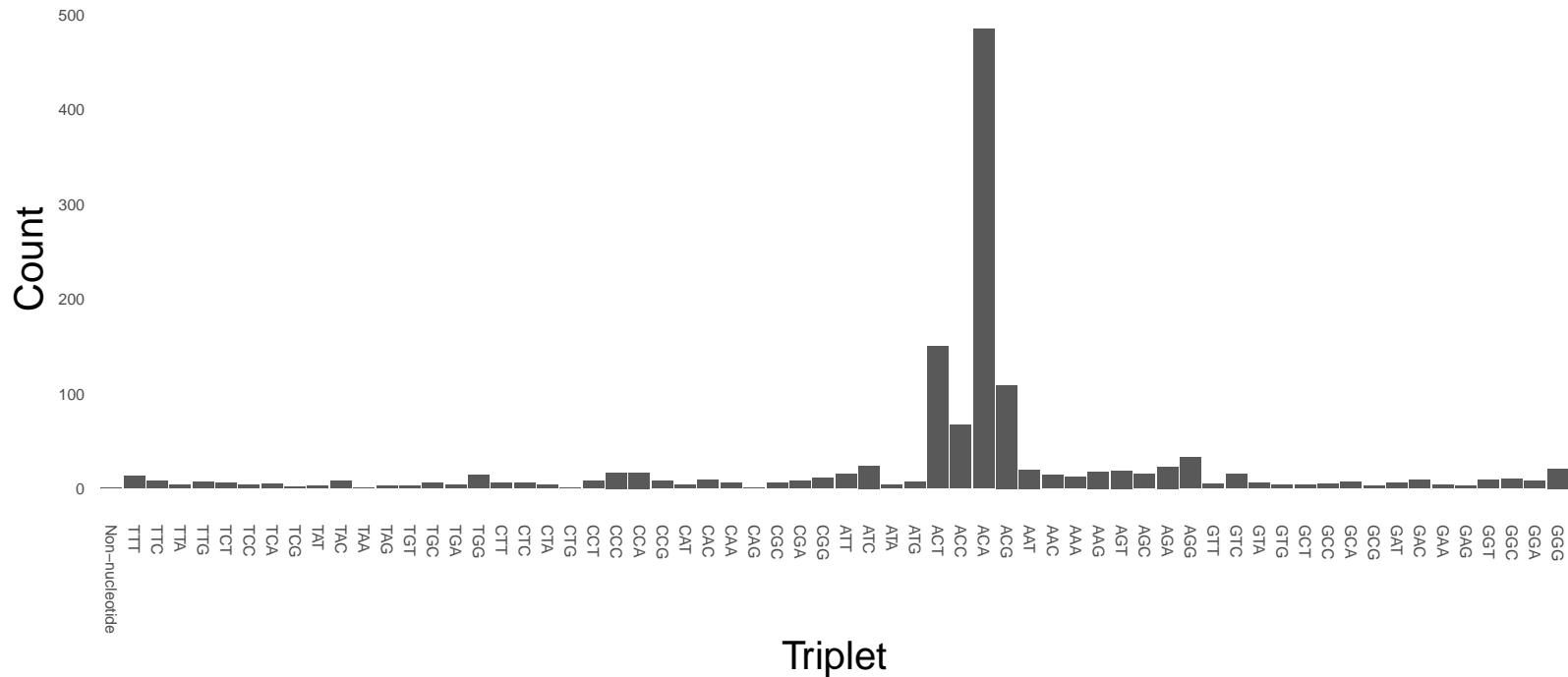
Gene IGHV4-39*01_C66G



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

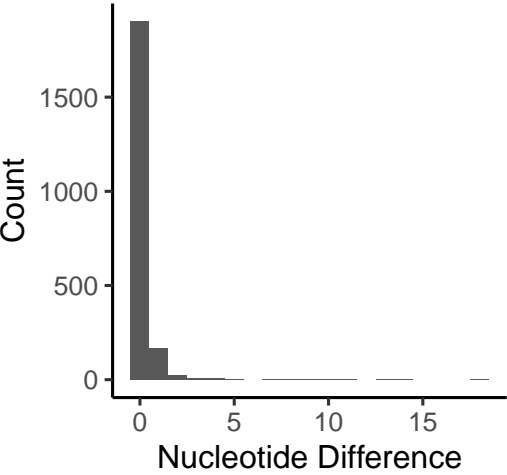


IGHV4-39*01_C66G- Final 3 nucleotides as a triplet



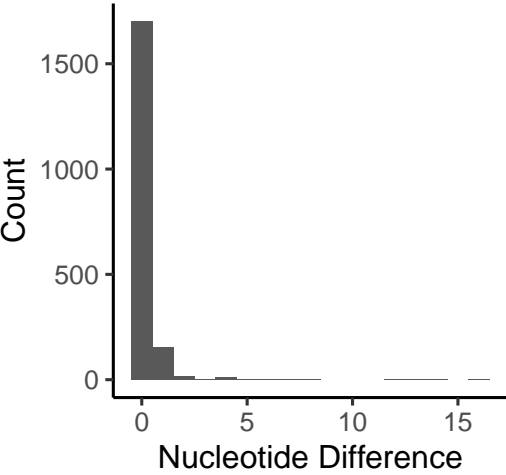
IGHV1-2*02

2126 sequences assigned
1902 (89.5%) exact matches, in which:
1799 unique CDR3
7 unique J



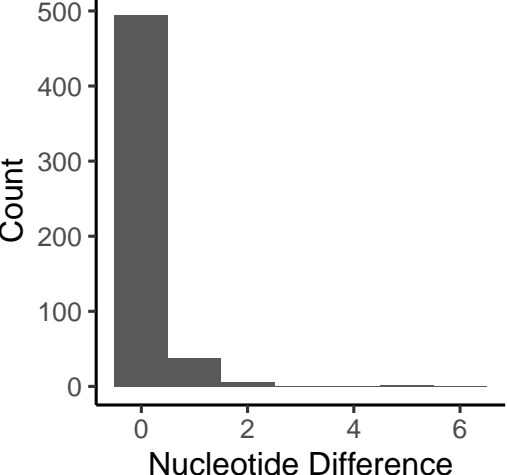
IGHV1-18*01

1899 sequences assigned
1701 (89.6%) exact matches, in which:
1626 unique CDR3
7 unique J



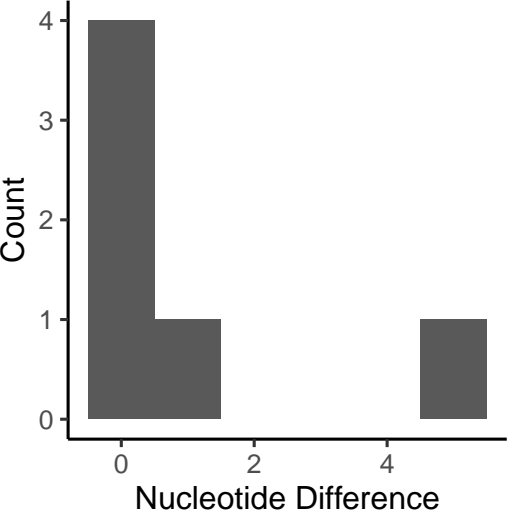
IGHV1-46*01

544 sequences assigned
495 (91%) exact matches, in which:
476 unique CDR3
7 unique J



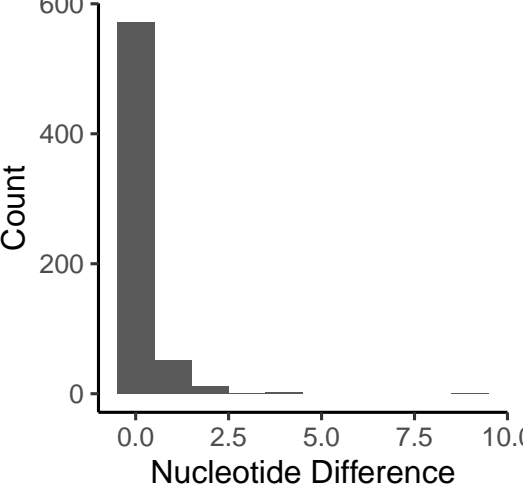
IGHV1-3*02

6 sequences assigned
4 (66.7%) exact matches, in which:
3 unique CDR3
3 unique J



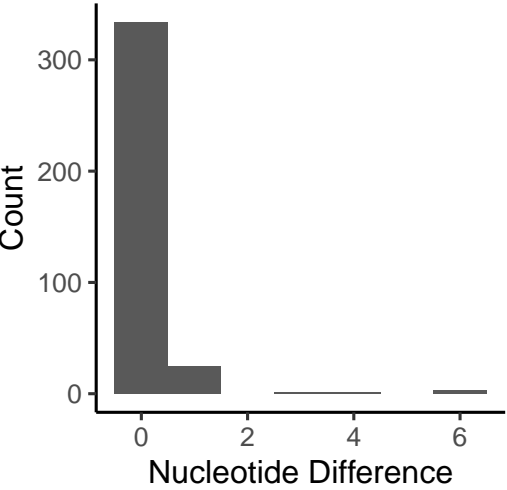
IGHV1-24*01

640 sequences assigned
572 (89.4%) exact matches, in which:
544 unique CDR3
7 unique J



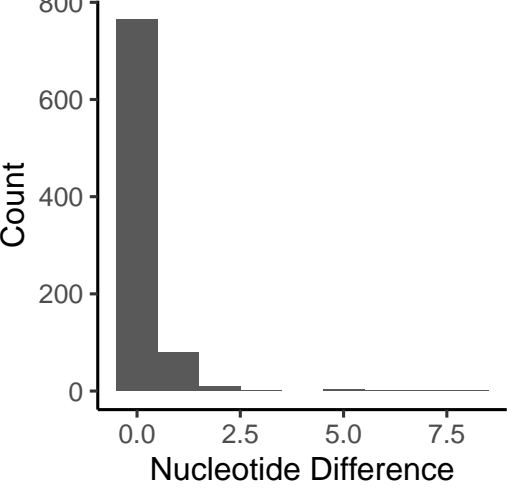
IGHV1-46*03

364 sequences assigned
334 (91.8%) exact matches, in which:
314 unique CDR3
7 unique J



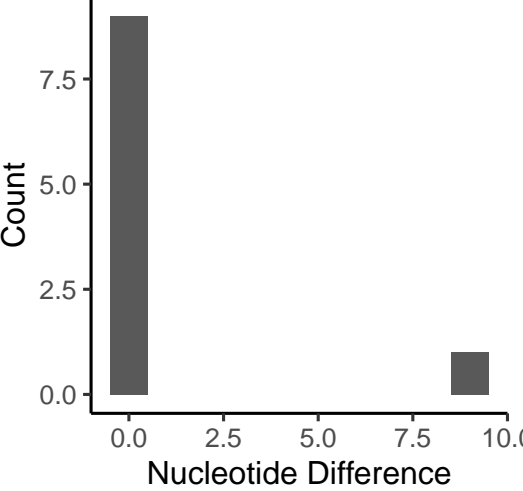
IGHV1-8*01

861 sequences assigned
765 (88.9%) exact matches, in which:
725 unique CDR3
7 unique J



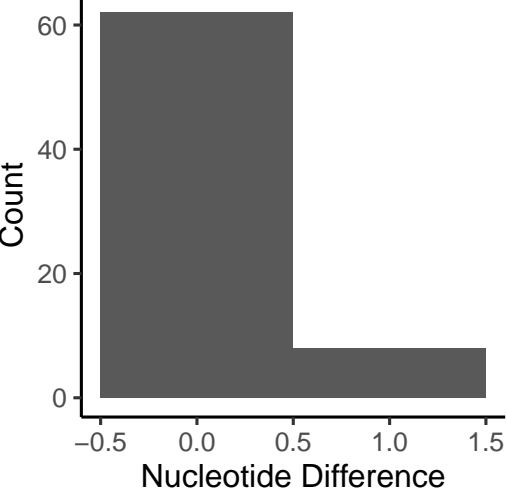
IGHV1-45*02

10 sequences assigned
9 (90%) exact matches, in which:
9 unique CDR3
3 unique J



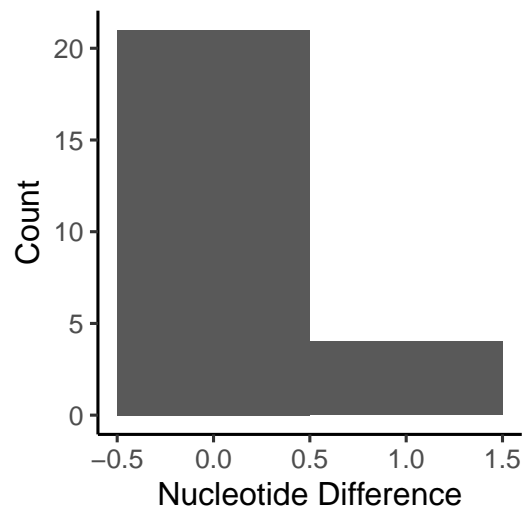
IGHV1-58*01

70 sequences assigned
62 (88.6%) exact matches, in which:
61 unique CDR3
5 unique J



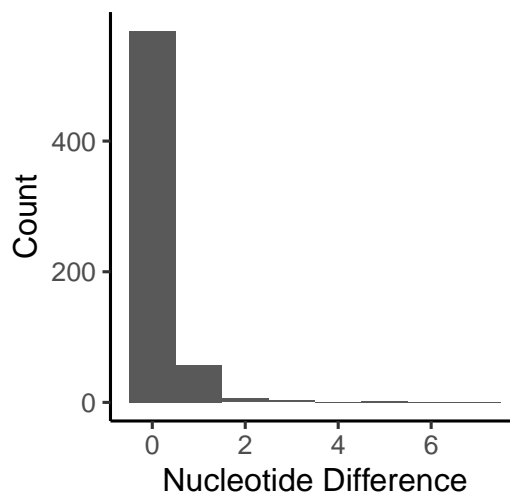
IGHV1-58*02

25 sequences assigned
21 (84%) exact matches, in which:
20 unique CDR3
3 unique J



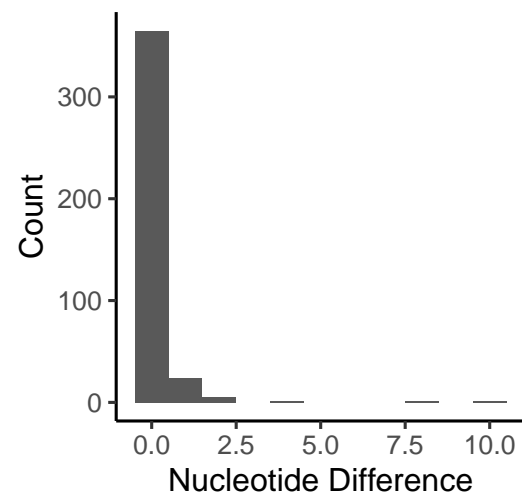
IGHV1-69*08_C191T

640 sequences assigned
569 (88.9%) exact matches, in which:
537 unique CDR3
6 unique J



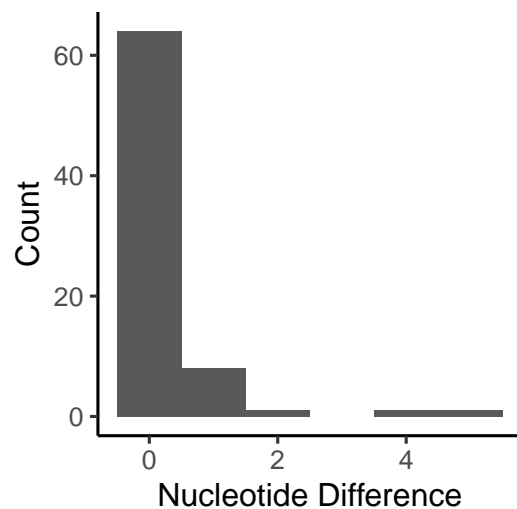
IGHV2-26*01

398 sequences assigned
365 (91.7%) exact matches, in which:
353 unique CDR3
7 unique J



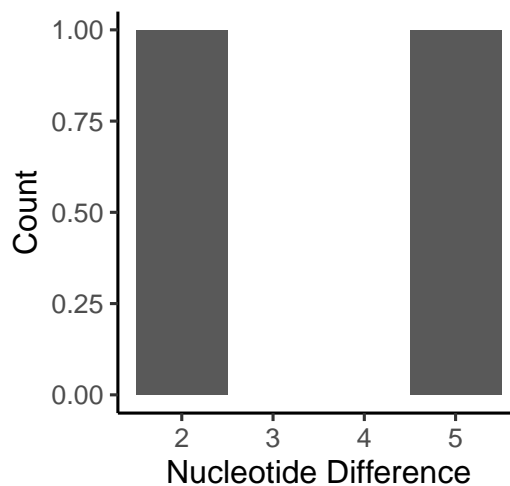
IGHV1-69-2*01

75 sequences assigned
64 (85.3%) exact matches, in which:
62 unique CDR3
5 unique J



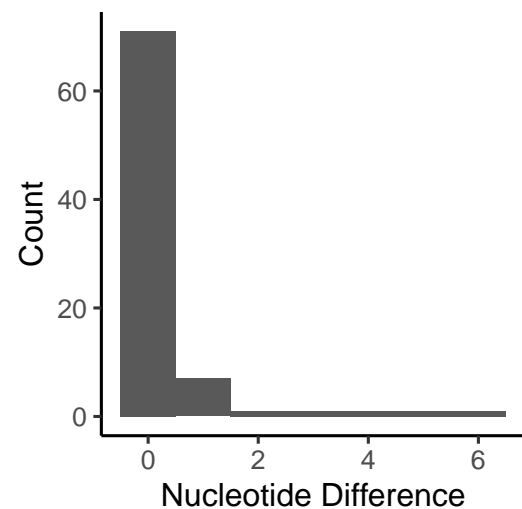
IGHV1-NL1*01

2 sequences assigned
No exact matches.



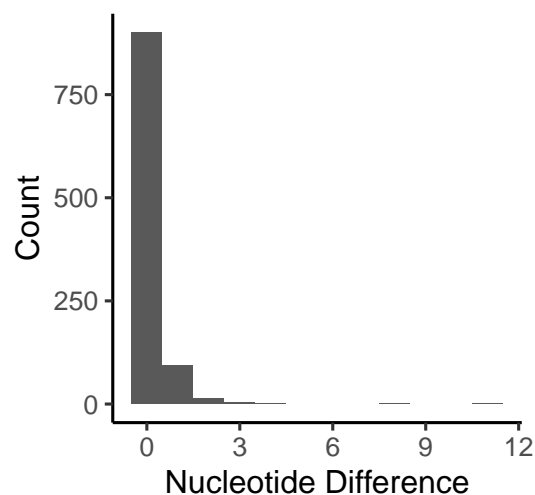
IGHV2-70*01

83 sequences assigned
71 (85.5%) exact matches, in which:
69 unique CDR3
5 unique J



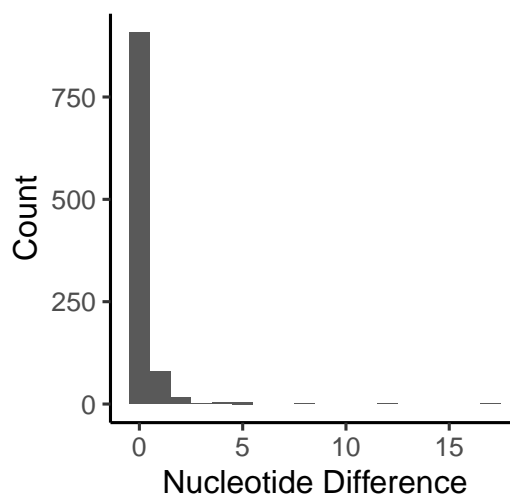
IGHV1-69*06

1016 sequences assigned
901 (88.7%) exact matches, in which:
856 unique CDR3
7 unique J



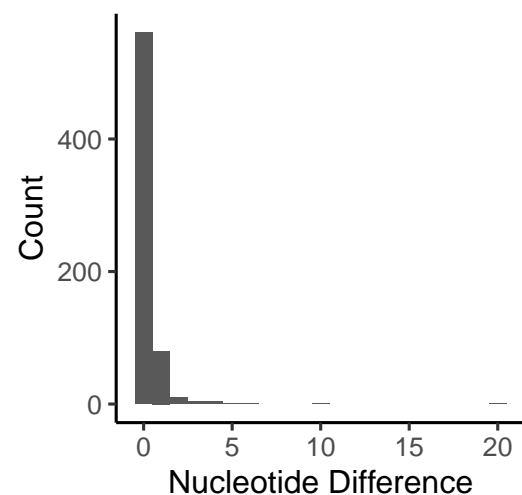
IGHV2-5*02

1017 sequences assigned
908 (89.3%) exact matches, in which:
879 unique CDR3
7 unique J



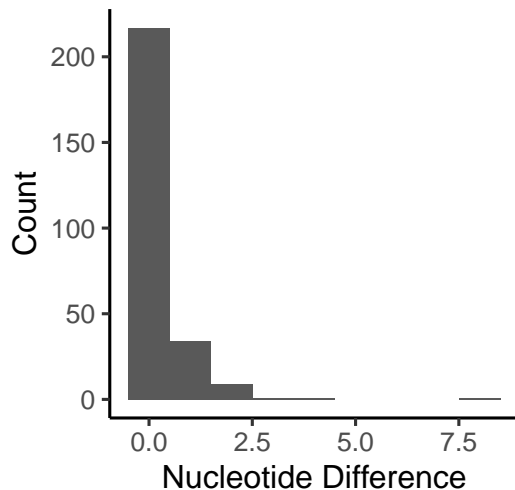
IGHV3-7*01

663 sequences assigned
561 (84.6%) exact matches, in which:
534 unique CDR3
7 unique J



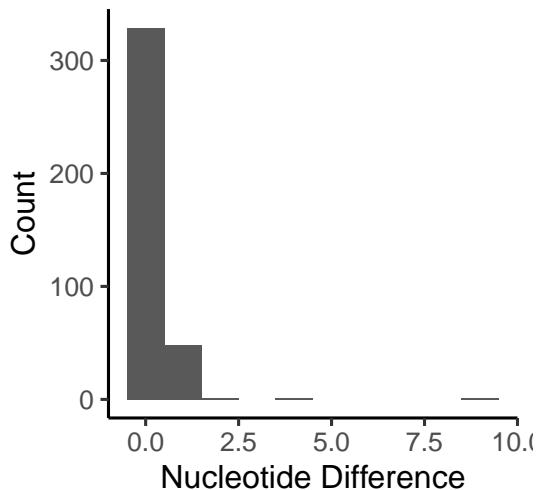
IGHV3-7*04

263 sequences assigned
217 (82.5%) exact matches, in which:
208 unique CDR3
7 unique J



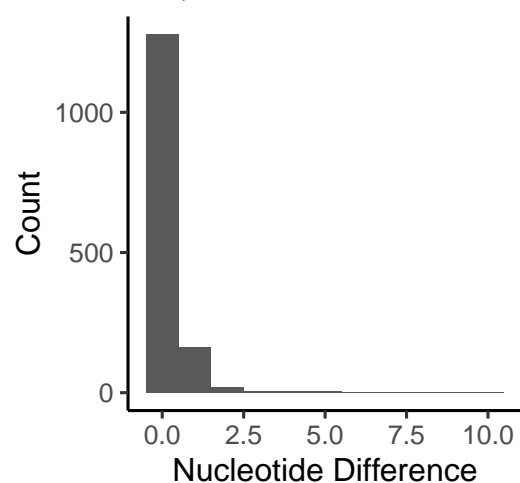
IGHV3-11*06

382 sequences assigned
329 (86.1%) exact matches, in which:
314 unique CDR3
6 unique J



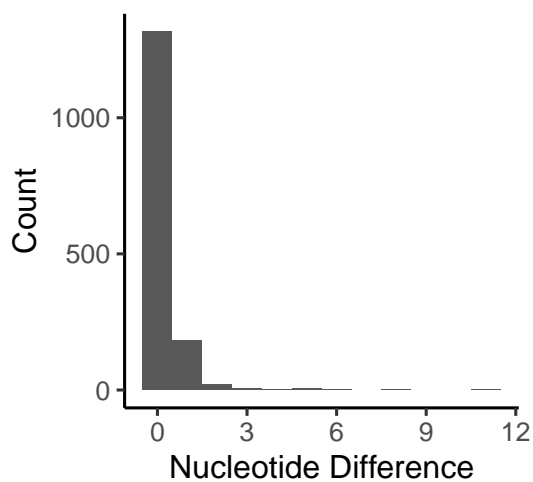
IGHV3-15*01

1485 sequences assigned
1278 (86.1%) exact matches, in which:
1206 unique CDR3
7 unique J



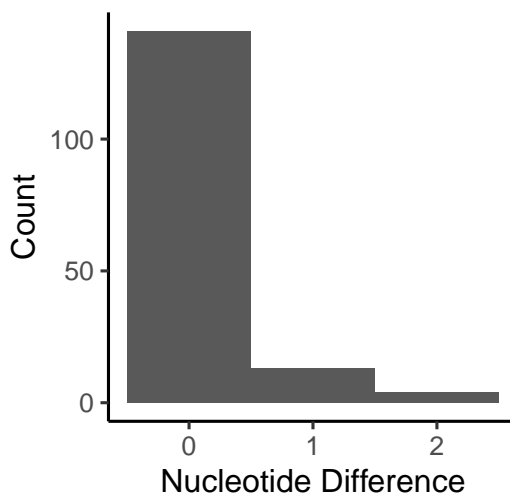
IGHV3-9*01

1534 sequences assigned
1316 (85.8%) exact matches, in which:
1186 unique CDR3
6 unique J



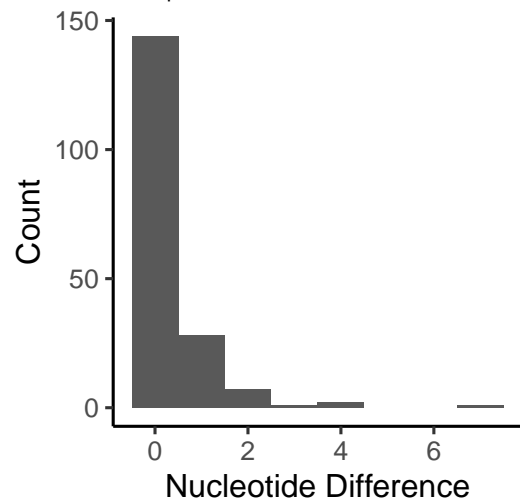
IGHV3-13*01

158 sequences assigned
141 (89.2%) exact matches, in which:
135 unique CDR3
5 unique J



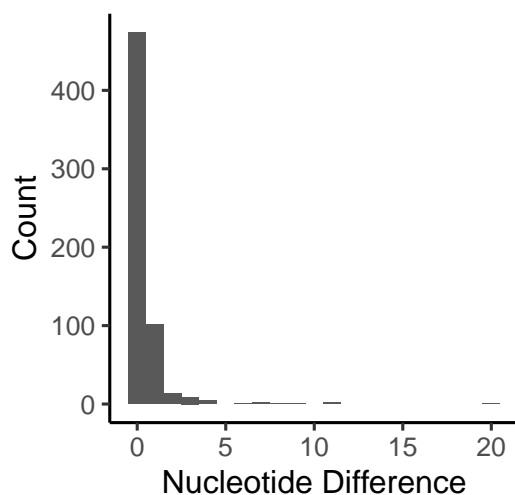
IGHV3-20*01

183 sequences assigned
144 (78.7%) exact matches, in which:
134 unique CDR3
6 unique J



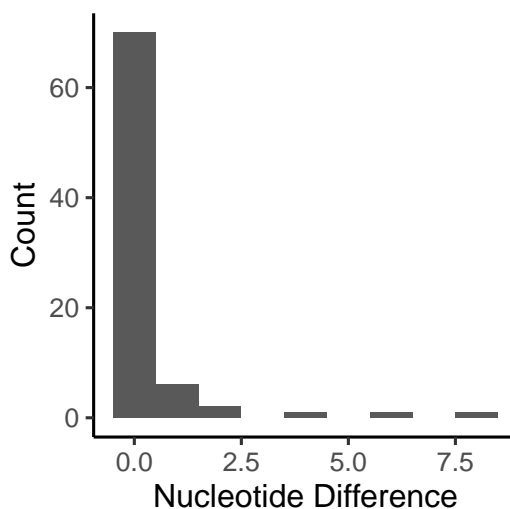
IGHV3-11*01

610 sequences assigned
474 (77.7%) exact matches, in which:
445 unique CDR3
6 unique J



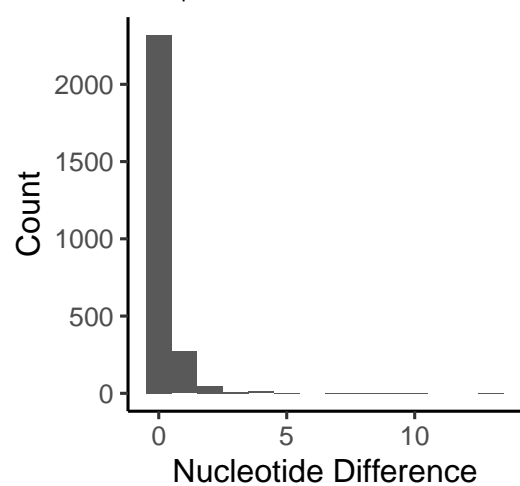
IGHV3-13*05

81 sequences assigned
70 (86.4%) exact matches, in which:
68 unique CDR3
5 unique J



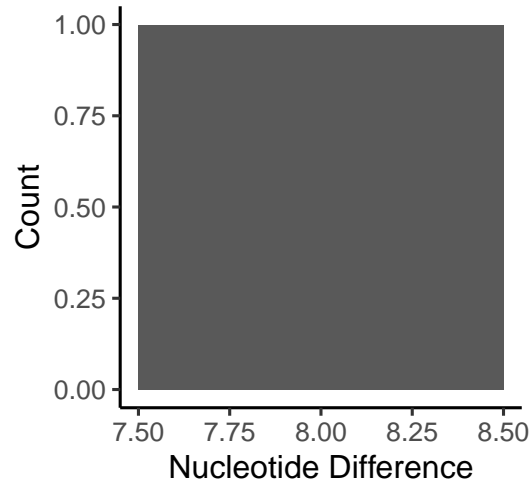
IGHV3-21*01

2670 sequences assigned
2319 (86.9%) exact matches, in which:
2193 unique CDR3
7 unique J



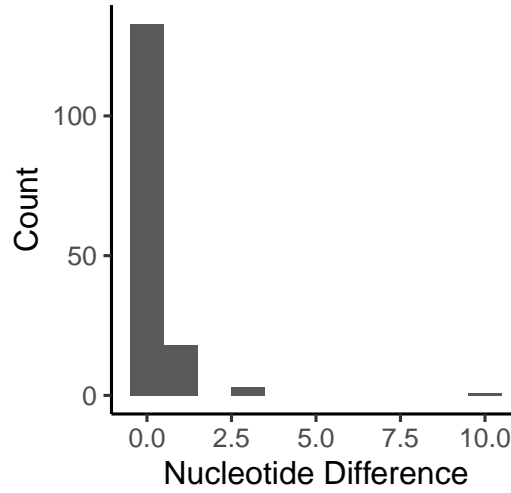
IGHV3-25*04

1 sequences assigned
No exact matches.



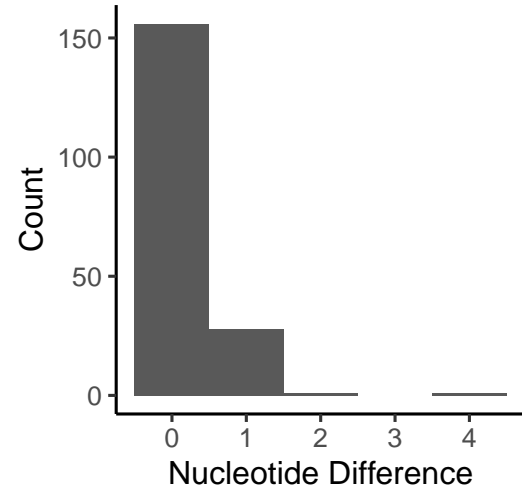
IGHV3-43*01

155 sequences assigned
133 (85.8%) exact matches, in which:
123 unique CDR3
7 unique J



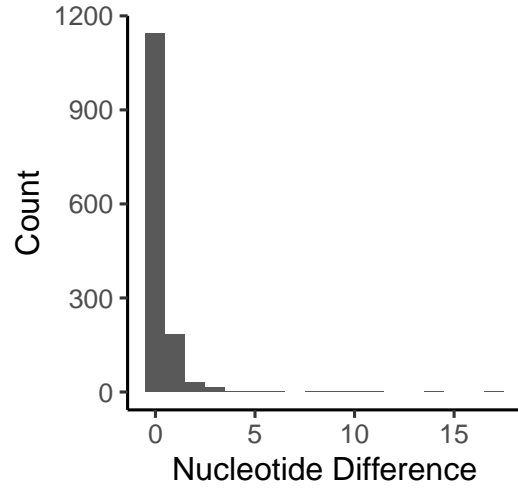
IGHV3-49*03

186 sequences assigned
156 (83.9%) exact matches, in which:
150 unique CDR3
5 unique J



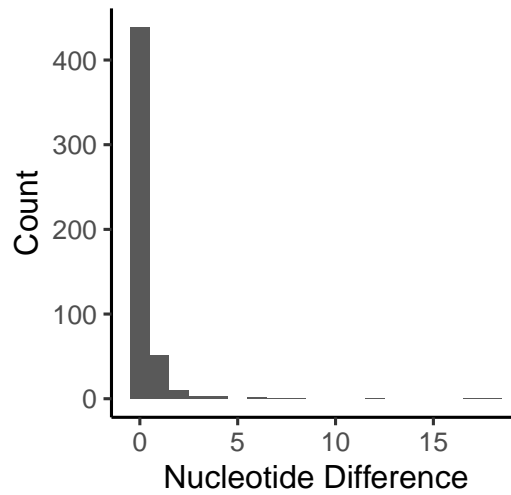
IGHV3-30-3*01

1390 sequences assigned
1143 (82.2%) exact matches, in which:
1068 unique CDR3
7 unique J



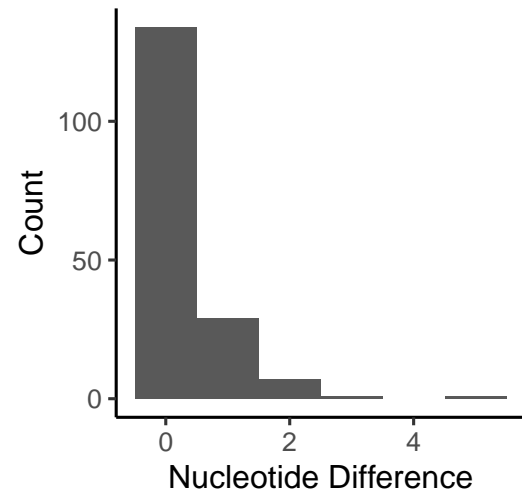
IGHV3-48*01

513 sequences assigned
439 (85.6%) exact matches, in which:
418 unique CDR3
6 unique J



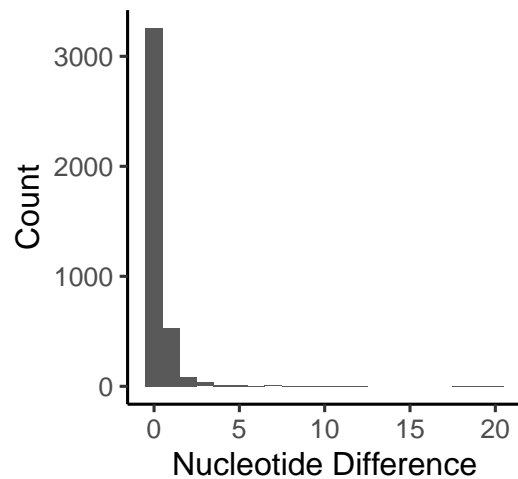
IGHV3-49*05

172 sequences assigned
134 (77.9%) exact matches, in which:
124 unique CDR3
6 unique J



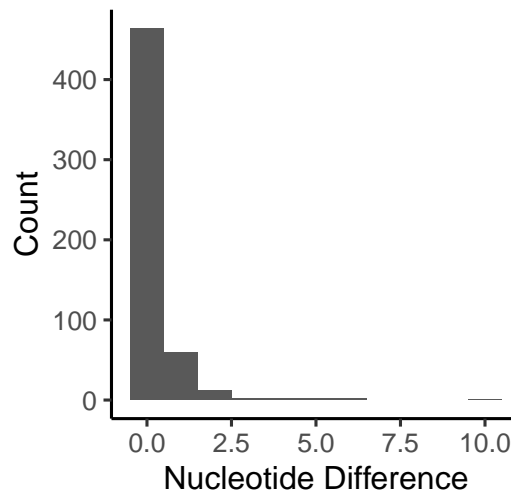
IGHV3-33*01

3957 sequences assigned
3257 (82.3%) exact matches, in which:
3067 unique CDR3
7 unique J



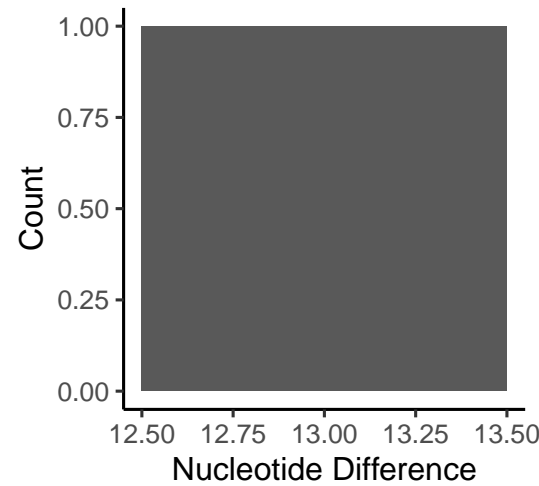
IGHV3-48*02

544 sequences assigned
464 (85.3%) exact matches, in which:
445 unique CDR3
7 unique J



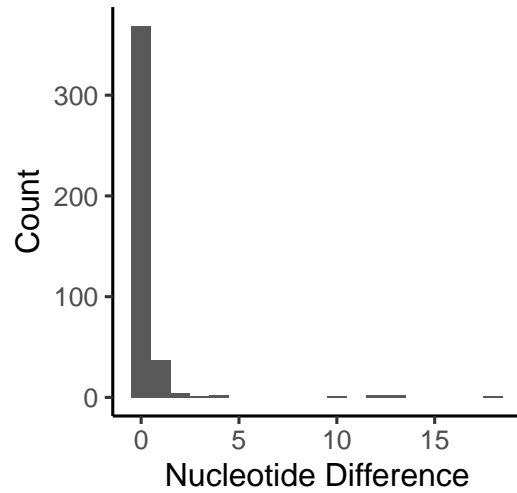
IGHV3-52*01

1 sequences assigned
No exact matches.



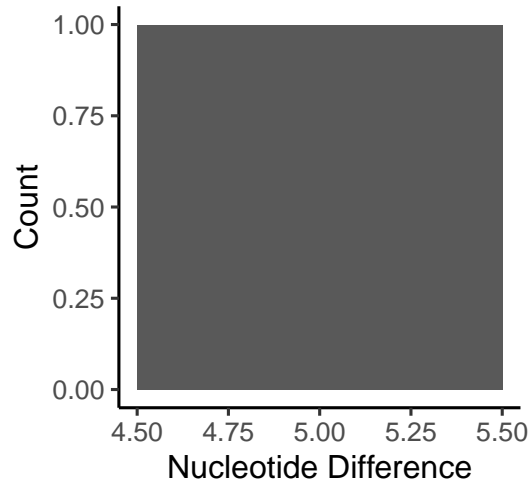
IGHV3-53*02

419 sequences assigned
369 (88.1%) exact matches, in which:
354 unique CDR3
7 unique J



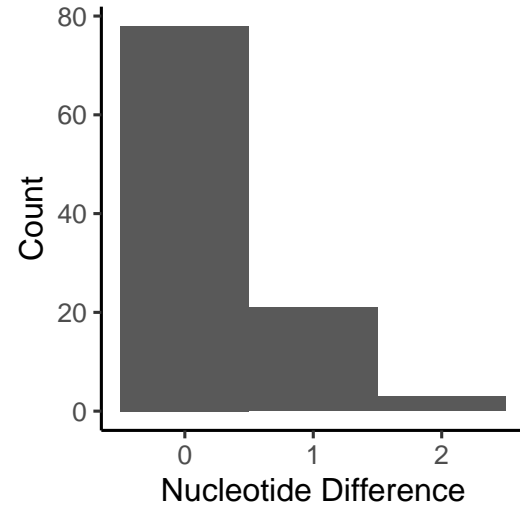
IGHV3-71*03

1 sequences assigned
No exact matches.



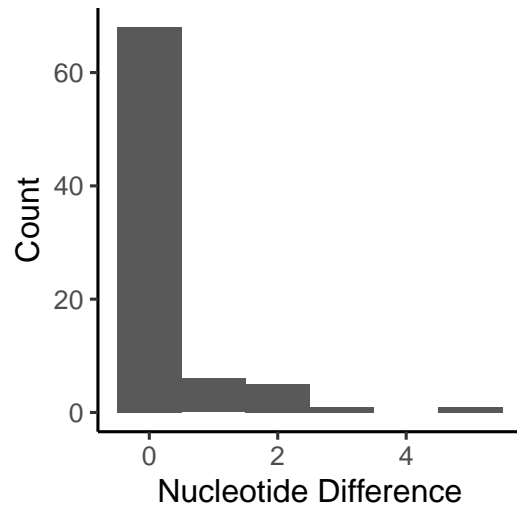
IGHV3-73*02

103 sequences assigned
78 (75.7%) exact matches, in which:
73 unique CDR3
6 unique J



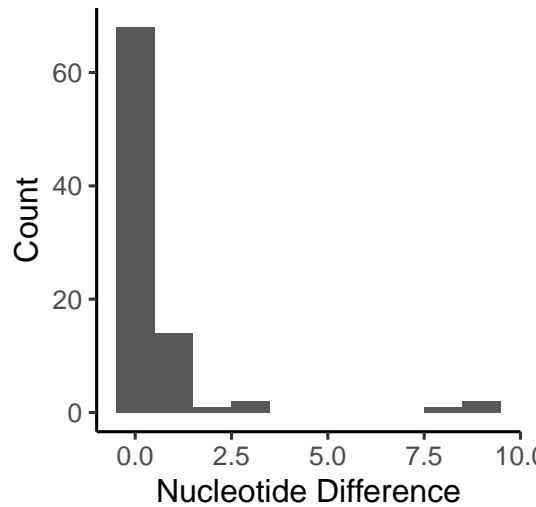
IGHV3-64*01

81 sequences assigned
68 (84%) exact matches, in which:
64 unique CDR3
5 unique J



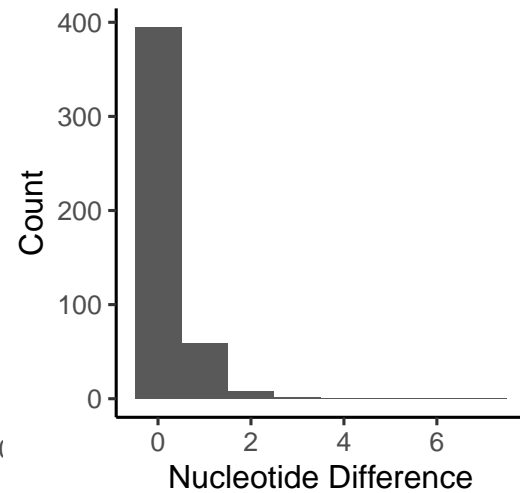
IGHV3-72*01

88 sequences assigned
68 (77.3%) exact matches, in which:
66 unique CDR3
6 unique J



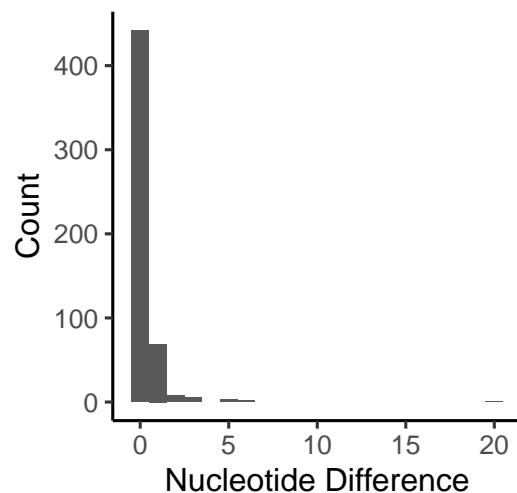
IGHV3-74*01

468 sequences assigned
395 (84.4%) exact matches, in which:
382 unique CDR3
7 unique J



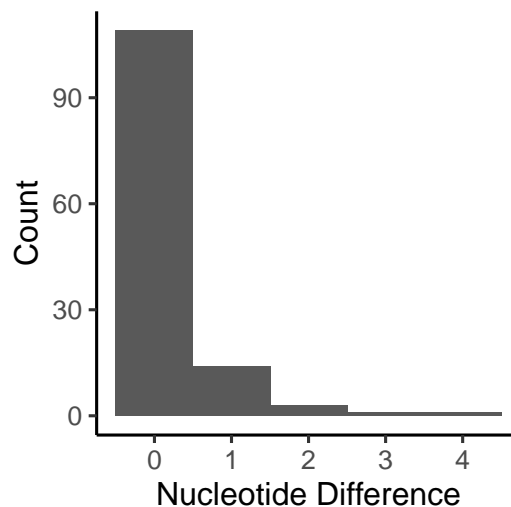
IGHV3-66*02

530 sequences assigned
442 (83.4%) exact matches, in which:
421 unique CDR3
7 unique J



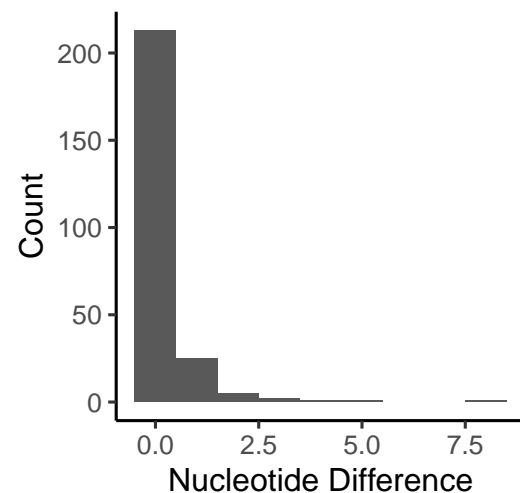
IGHV3-73*01

128 sequences assigned
109 (85.2%) exact matches, in which:
104 unique CDR3
6 unique J



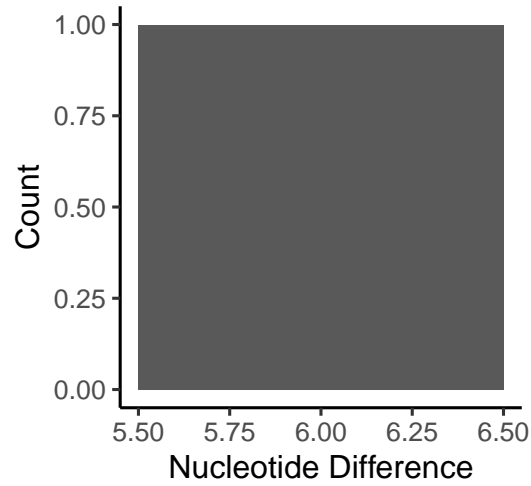
IGHV3-64D*06

248 sequences assigned
213 (85.9%) exact matches, in which:
199 unique CDR3
6 unique J



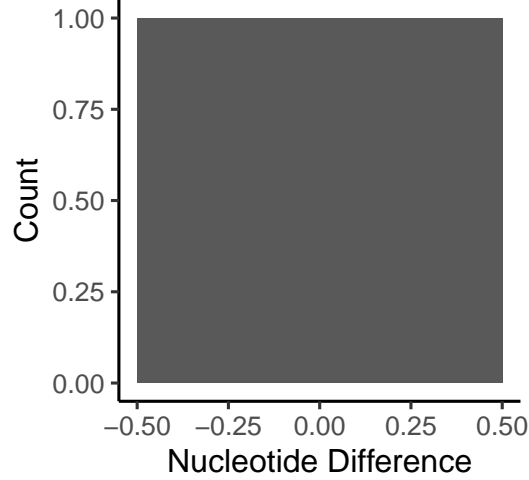
IGHV3–NL1*01

1 sequences assigned
No exact matches.



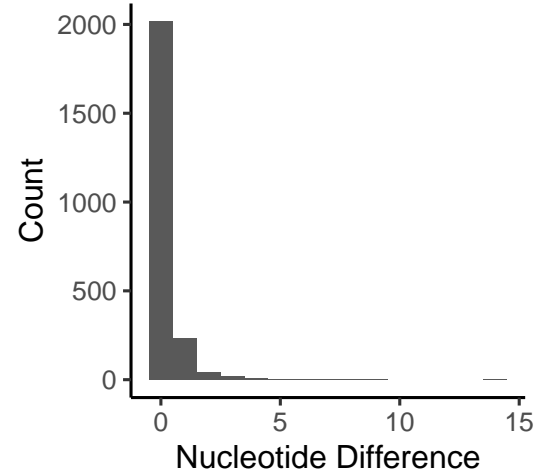
IGHV4–28*03

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



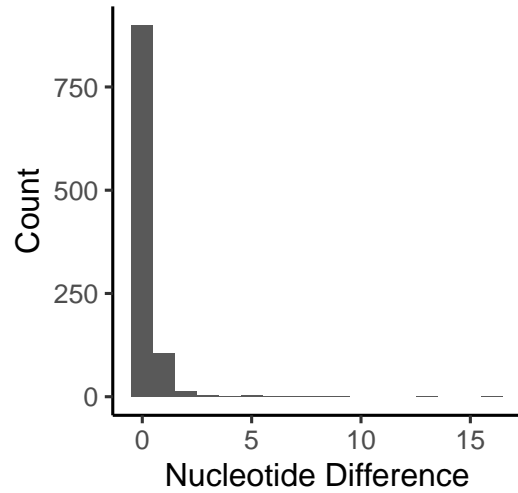
IGHV4–31*03

2326 sequences assigned
2017 (86.7%) exact matches, in which:
1930 unique CDR3
7 unique J



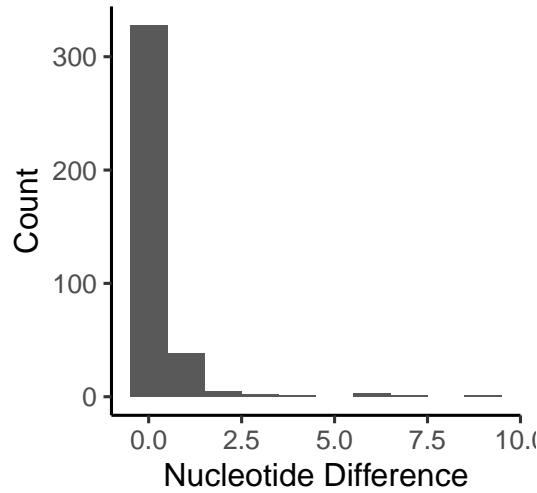
IGHV4–4*07

1036 sequences assigned
900 (86.9%) exact matches, in which:
865 unique CDR3
7 unique J



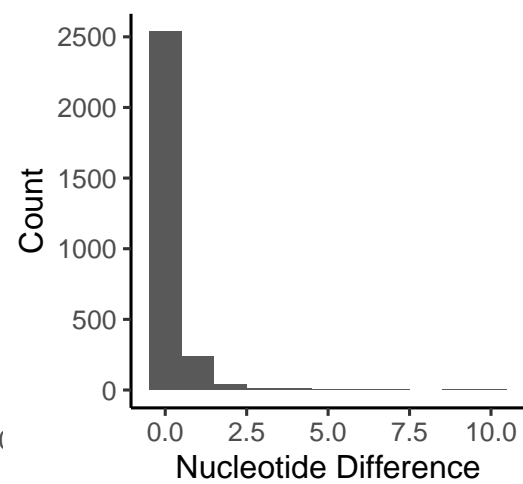
IGHV4–30–4*01

379 sequences assigned
328 (86.5%) exact matches, in which:
319 unique CDR3
7 unique J



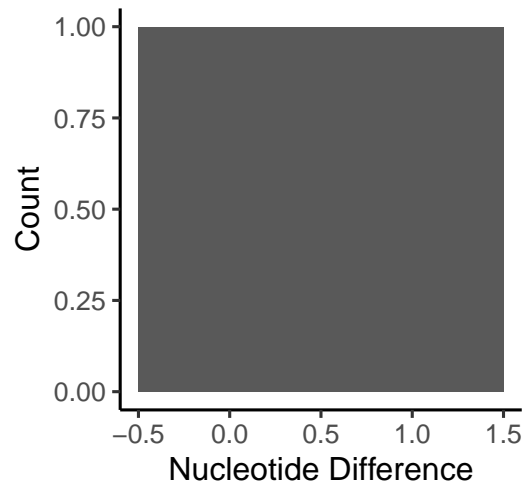
IGHV4–34*01

2850 sequences assigned
2536 (89%) exact matches, in which:
2415 unique CDR3
7 unique J



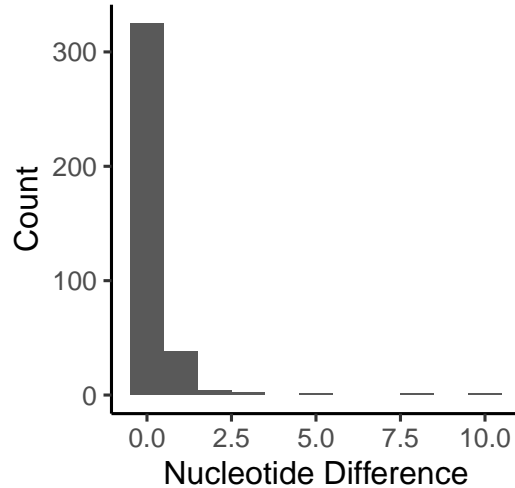
IGHV4–28*01

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



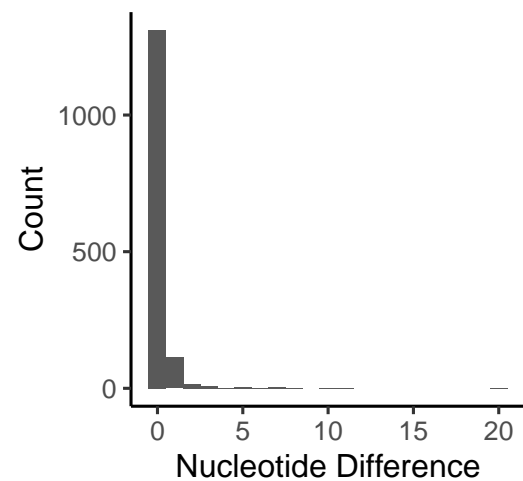
IGHV4–30–2*01

372 sequences assigned
325 (87.4%) exact matches, in which:
311 unique CDR3
6 unique J



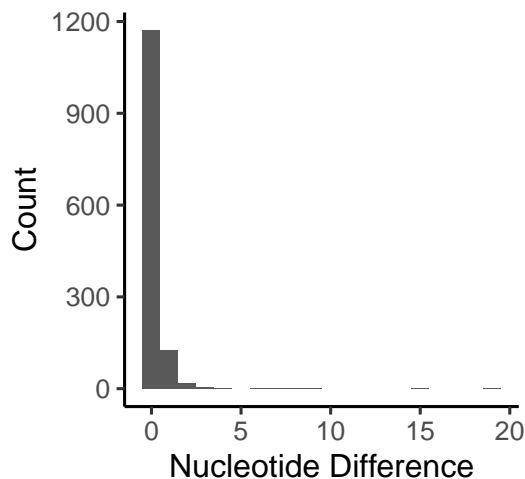
IGHV4–39*01

1469 sequences assigned
1311 (89.2%) exact matches, in which:
1264 unique CDR3
6 unique J



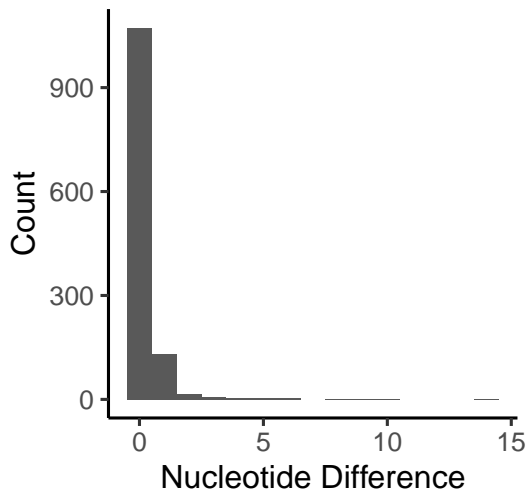
IGHV4–39*01_C66G

1338 sequences assigned
1171 (87.5%) exact matches, in which:
1134 unique CDR3
7 unique J



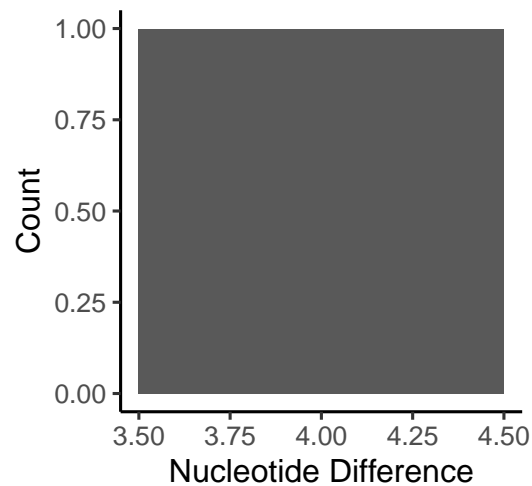
IGHV4–59*01

1243 sequences assigned
1073 (86.3%) exact matches, in which:
1049 unique CDR3
7 unique J



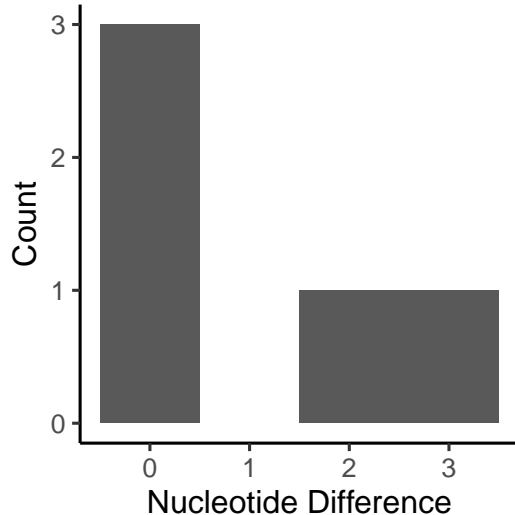
IGHV4/OR15–8*02

1 sequences assigned
No exact matches.



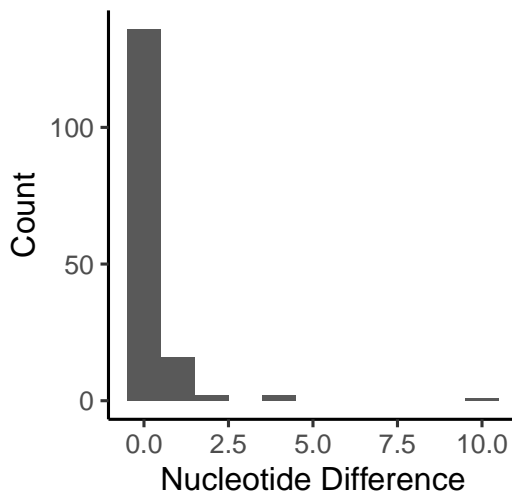
IGHV4–55*01

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



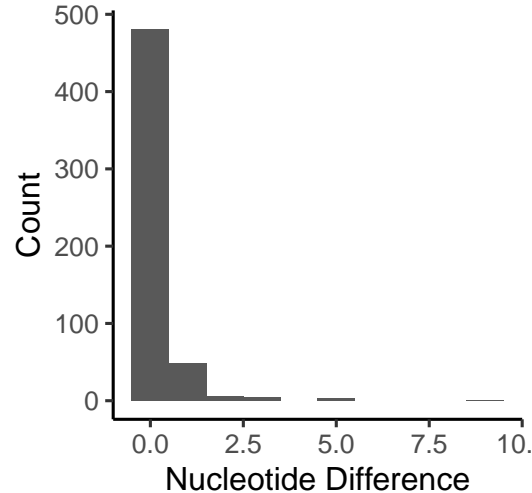
IGHV4–61*01

158 sequences assigned
136 (86.1%) exact matches, in which:
133 unique CDR3
6 unique J



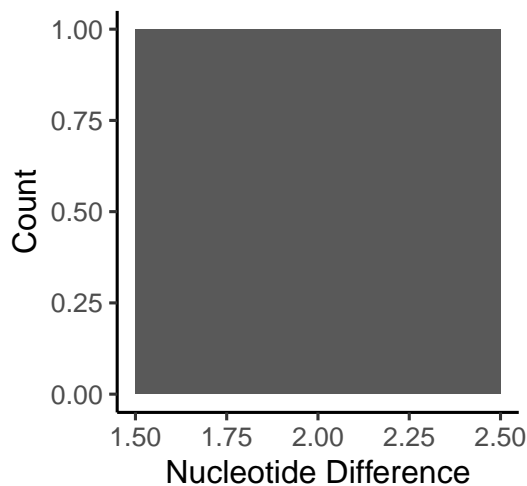
IGHV5–10–1*03

545 sequences assigned
481 (88.3%) exact matches, in which:
461 unique CDR3
6 unique J



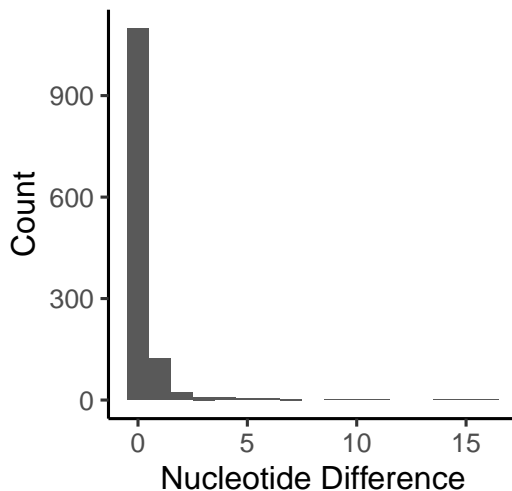
IGHV4–55*08

1 sequences assigned
No exact matches.



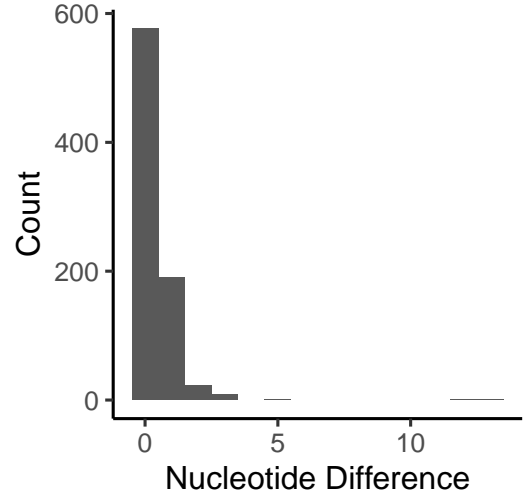
IGHV4–61*02

1279 sequences assigned
1099 (85.9%) exact matches, in which:
1062 unique CDR3
6 unique J



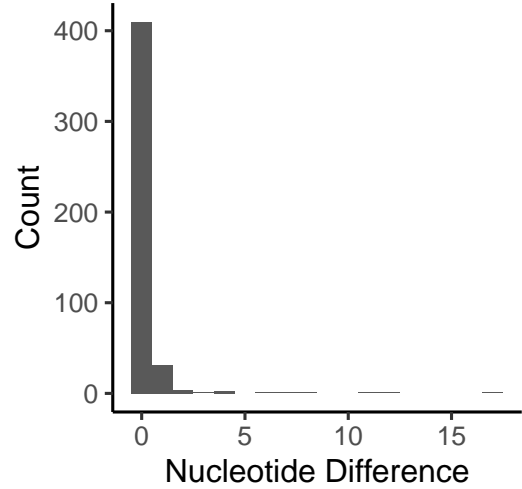
IGHV5–51*01

801 sequences assigned
577 (72%) exact matches, in which:
539 unique CDR3
7 unique J



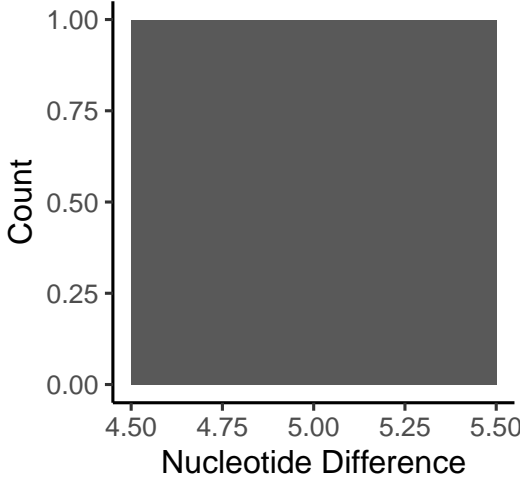
IGHV5–51*03

455 sequences assigned
410 (90.1%) exact matches, in which:
395 unique CDR3
6 unique J



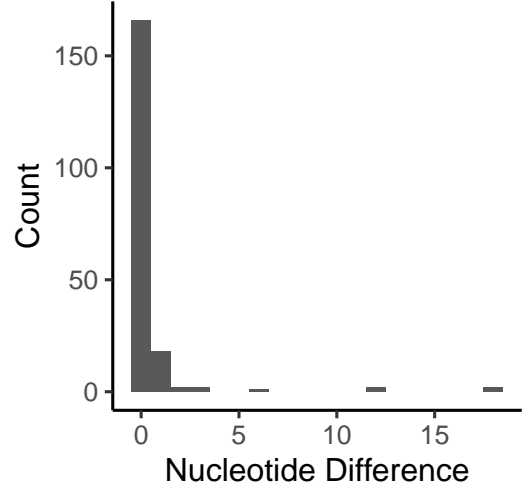
IGHV3/OR16–15*02

1 sequences assigned
No exact matches.



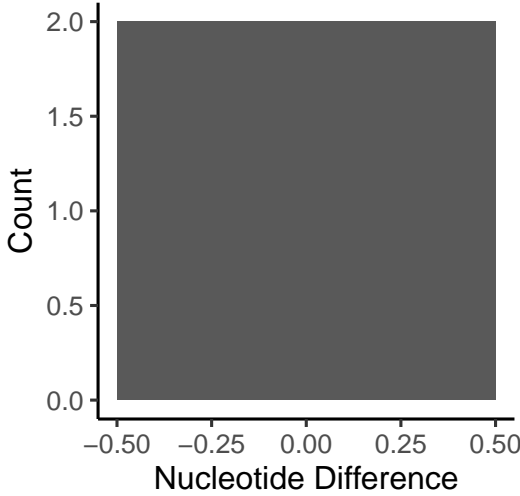
IGHV6–1*01

193 sequences assigned
166 (86%) exact matches, in which:
155 unique CDR3
7 unique J



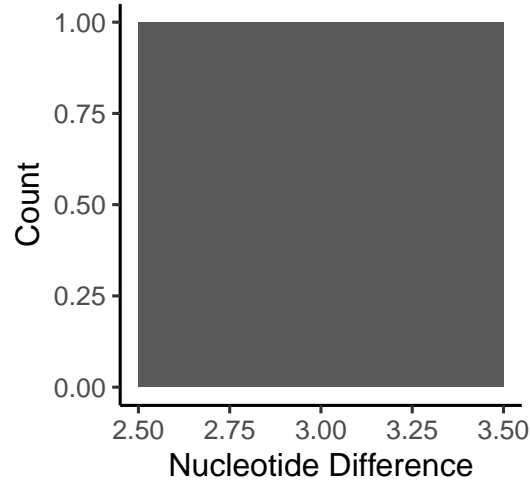
IGHV7–81*01

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

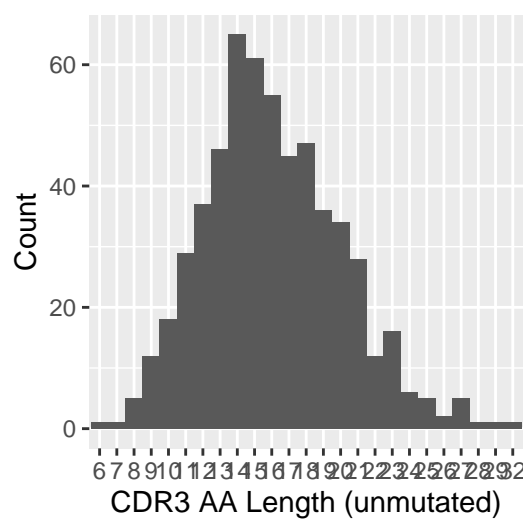


IGHV3/OR16–12*01

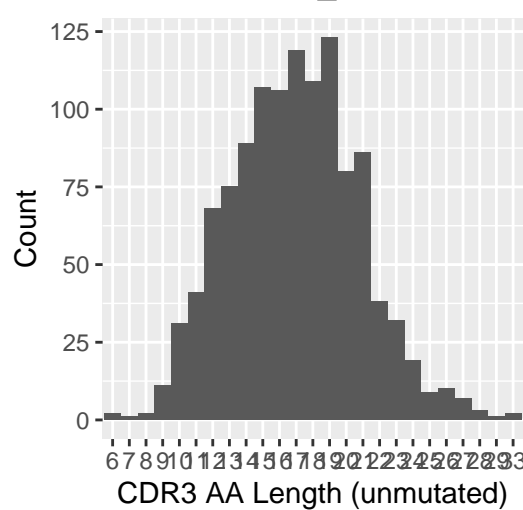
1 sequences assigned
No exact matches.



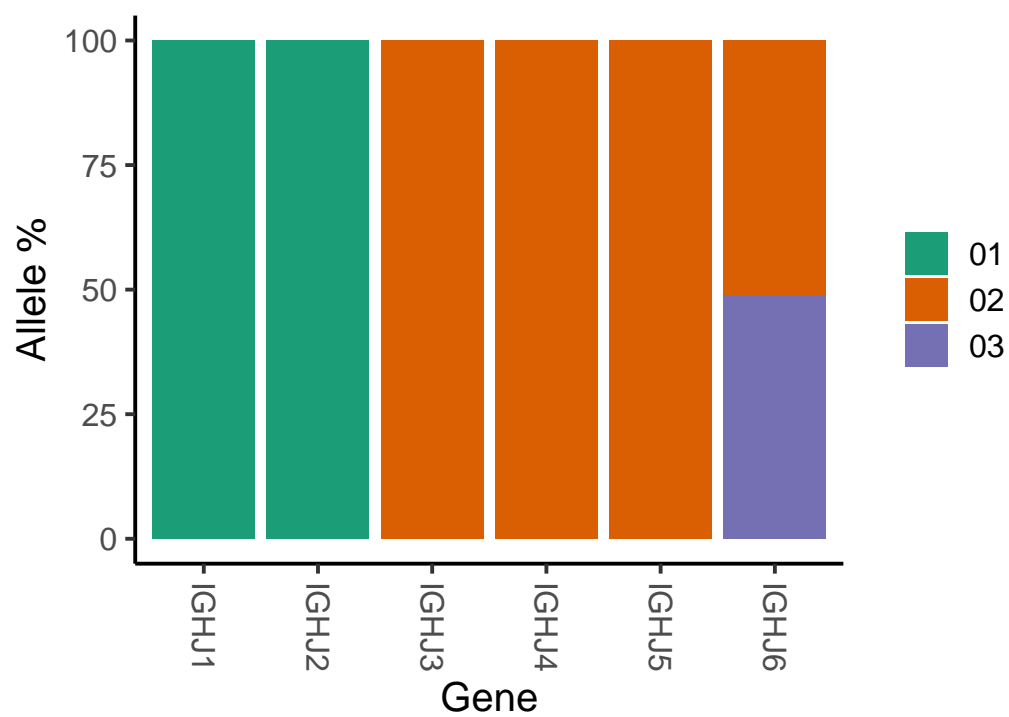
IGHV1-69*08_C191T



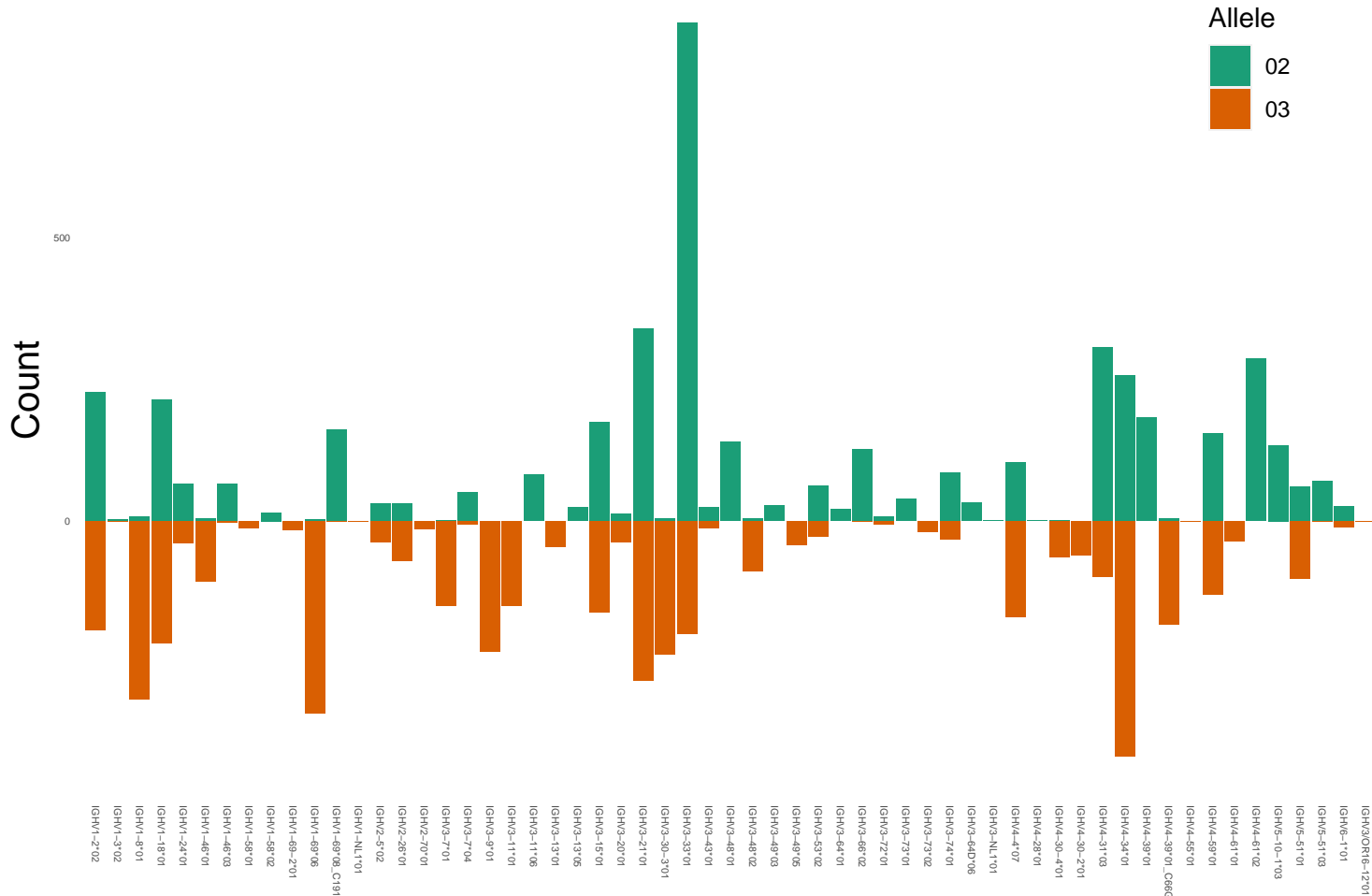
IGHV4-39*01_C66G



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

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