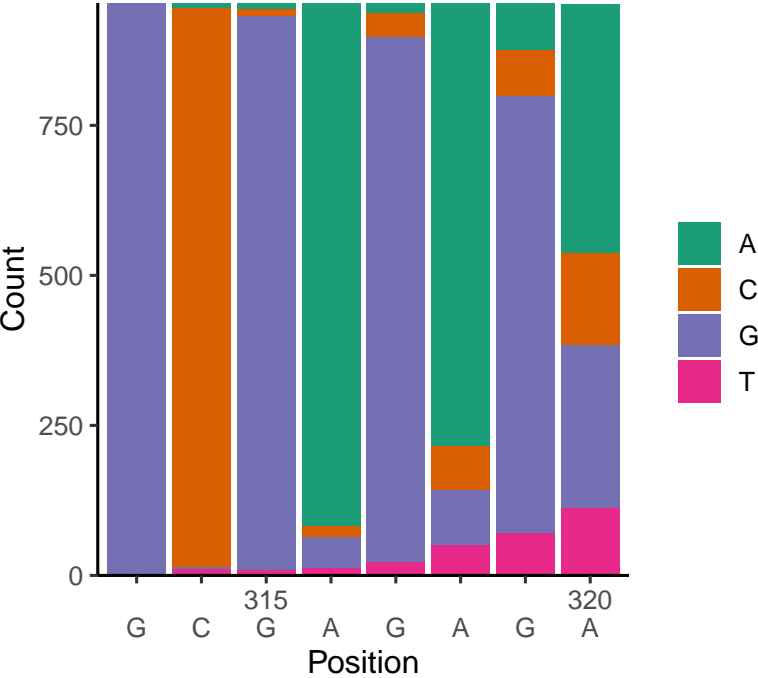
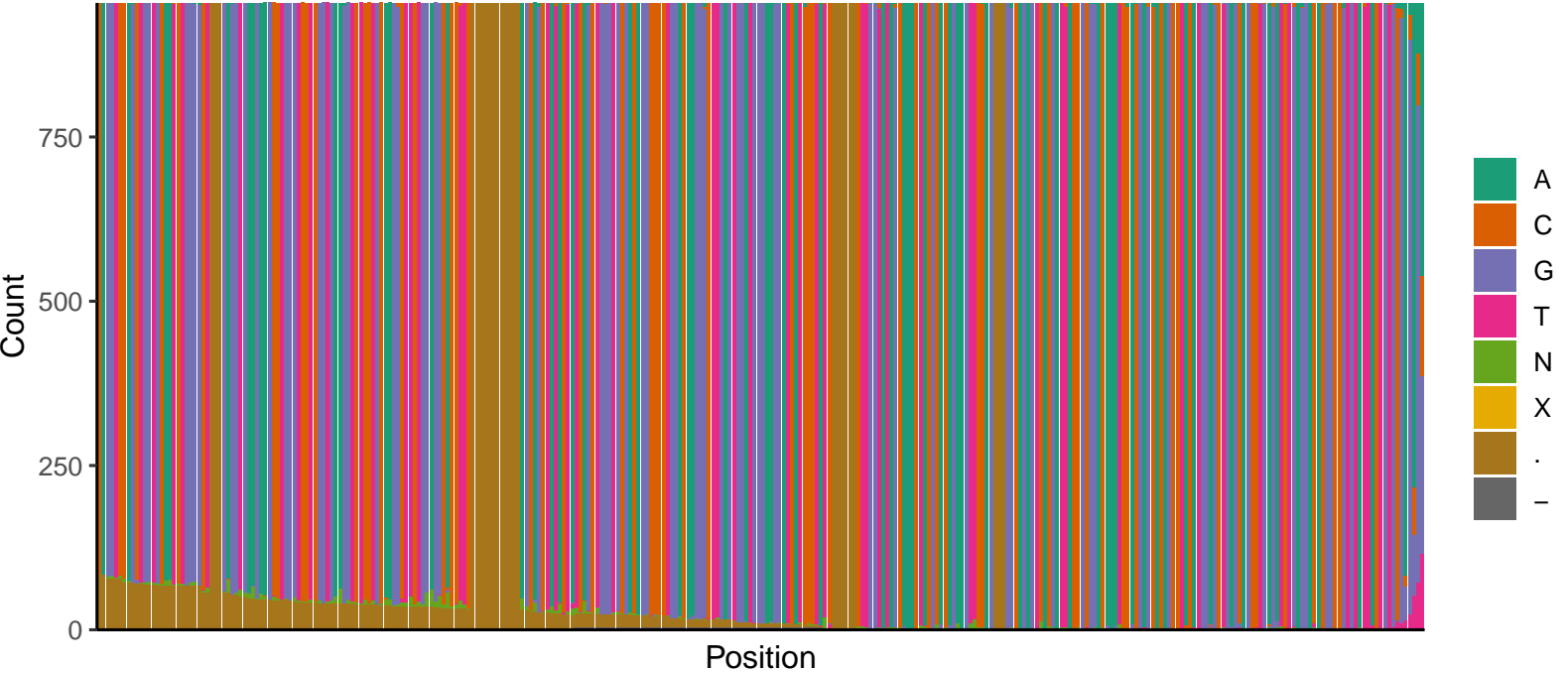


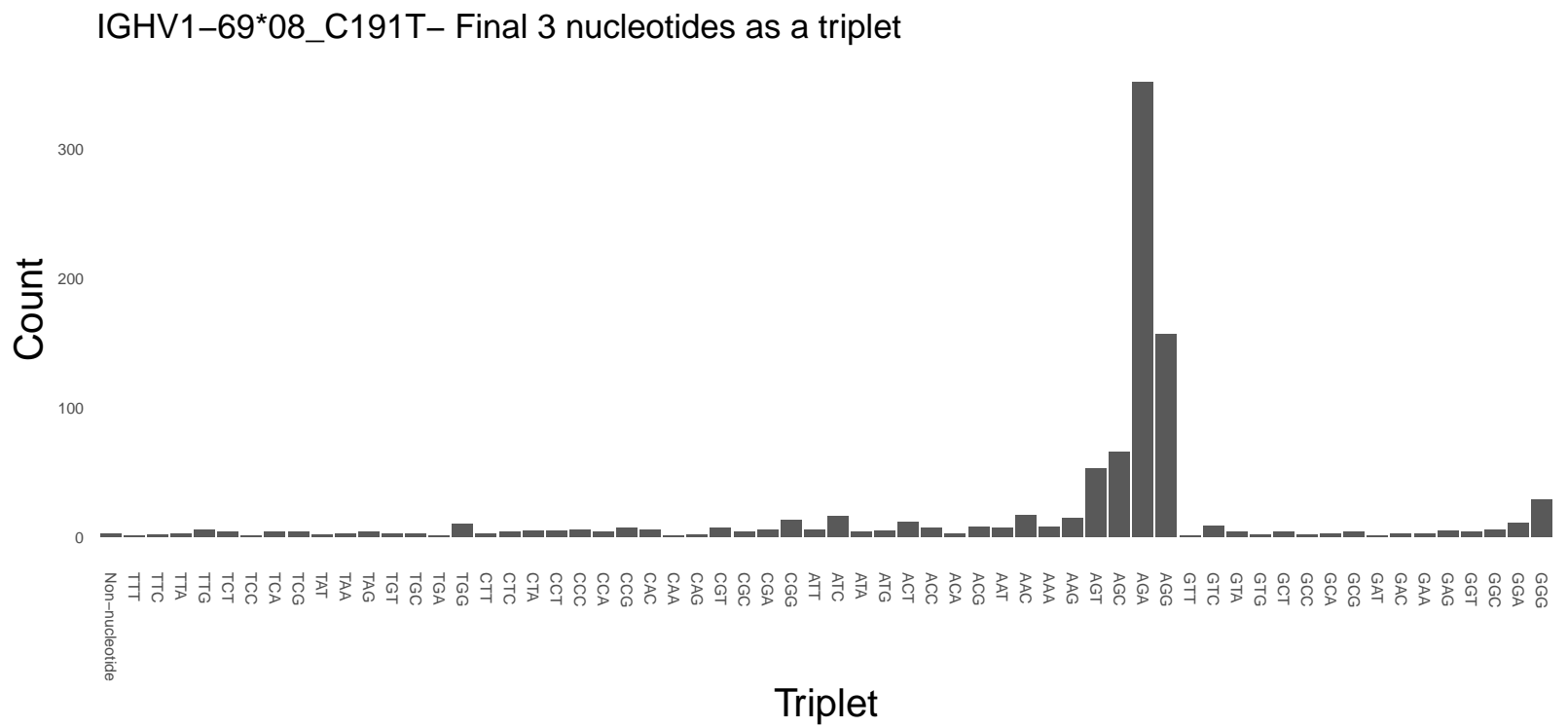
Gene IGHV1-69*08_C191T



Gene IGHV1-69*08_C191T

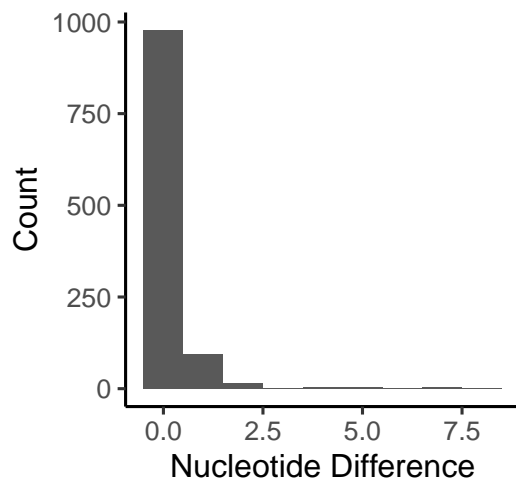


IGHV1-69*08_C191T- Final 3 nucleotides as a triplet



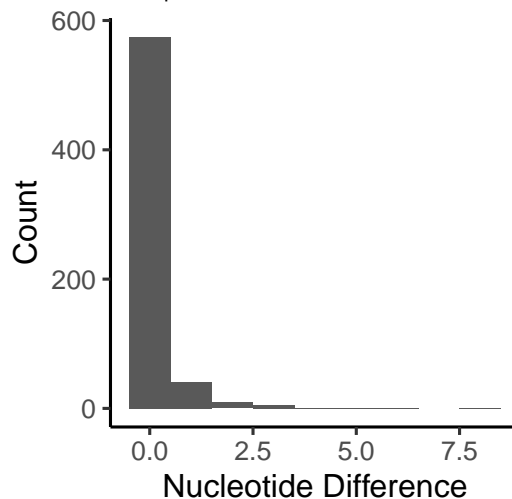
IGHV1-2*02

1107 sequences assigned
977 (88.3%) exact matches, in which:
919 unique CDR3
6 unique J



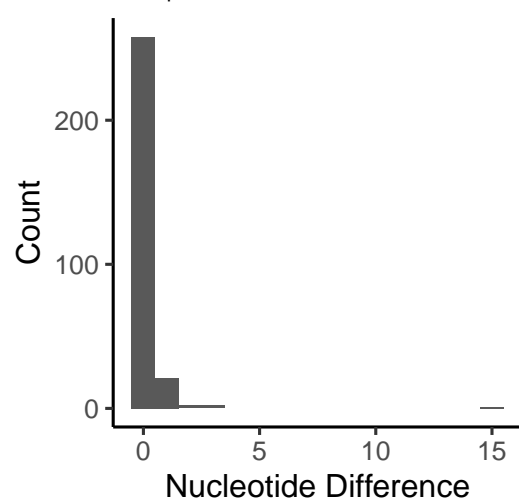
IGHV1-8*01

634 sequences assigned
575 (90.7%) exact matches, in which:
555 unique CDR3
7 unique J



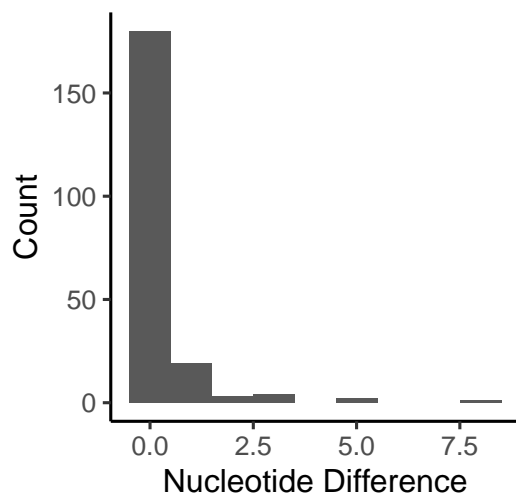
IGHV1-24*01

284 sequences assigned
258 (90.8%) exact matches, in which:
244 unique CDR3
7 unique J



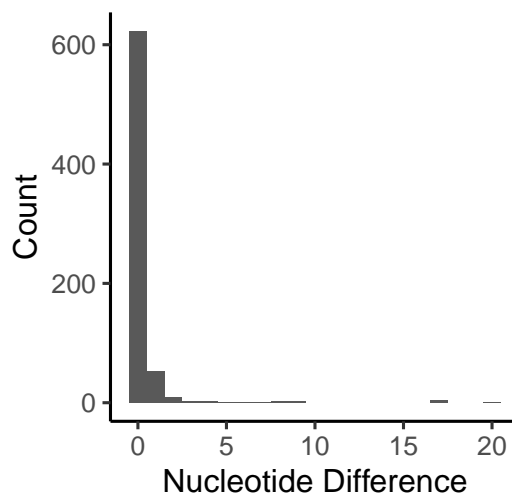
IGHV1-2*04

209 sequences assigned
180 (86.1%) exact matches, in which:
170 unique CDR3
5 unique J



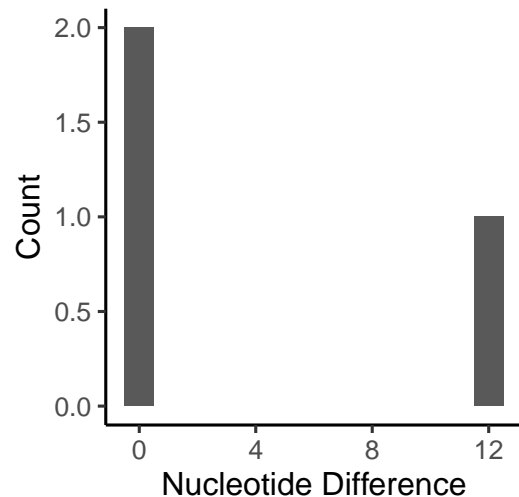
IGHV1-18*01

703 sequences assigned
623 (88.6%) exact matches, in which:
605 unique CDR3
7 unique J



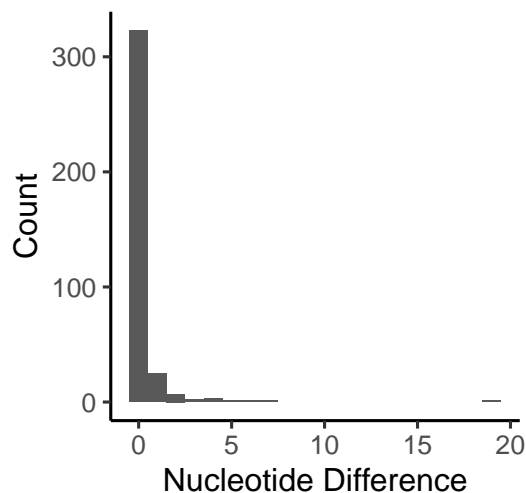
IGHV1-45*02

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



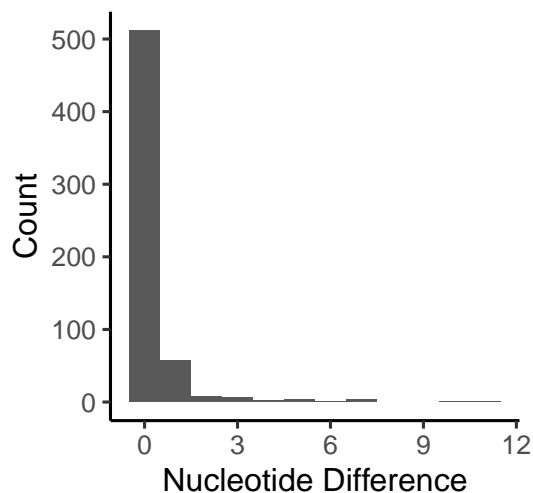
IGHV1-3*01

368 sequences assigned
323 (87.8%) exact matches, in which:
304 unique CDR3
6 unique J



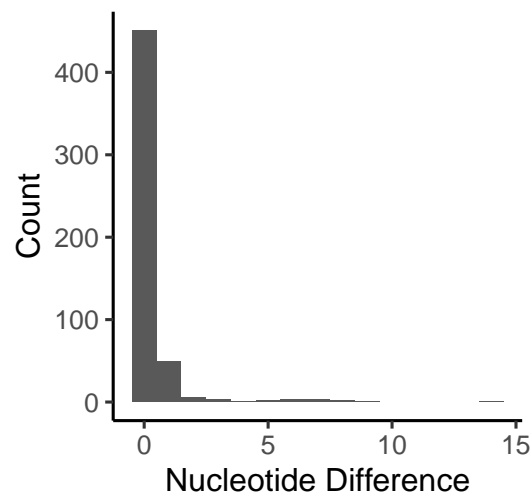
IGHV1-18*04

593 sequences assigned
512 (86.3%) exact matches, in which:
492 unique CDR3
7 unique J



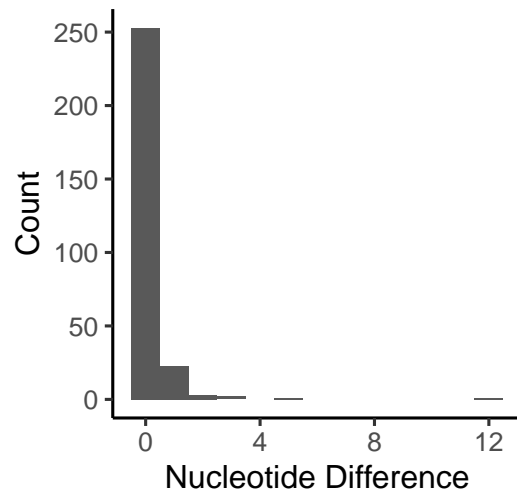
IGHV1-46*01

521 sequences assigned
451 (86.6%) exact matches, in which:
437 unique CDR3
6 unique J



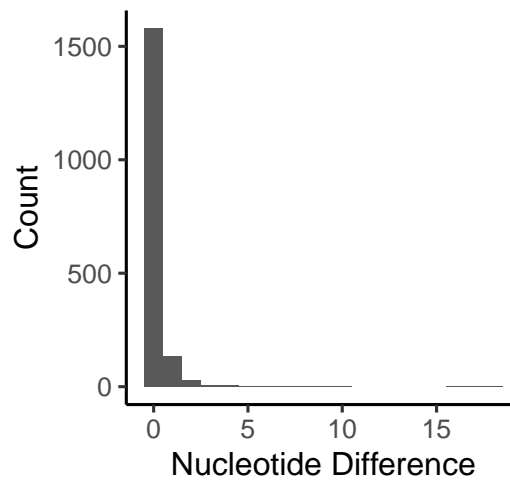
IGHV1–46*03

283 sequences assigned
253 (89.4%) exact matches, in which:
243 unique CDR3
6 unique J



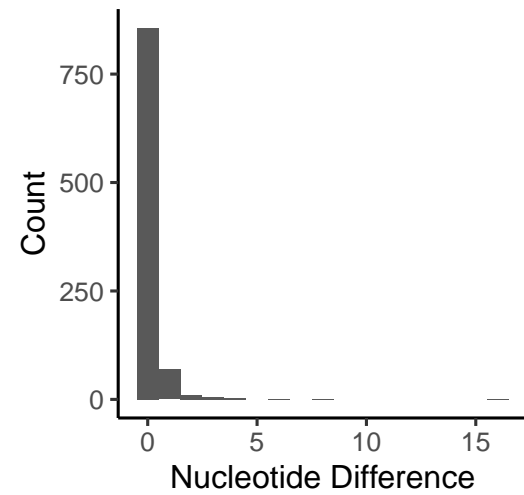
IGHV1–69*01

1778 sequences assigned
1579 (88.8%) exact matches, in which:
1497 unique CDR3
7 unique J



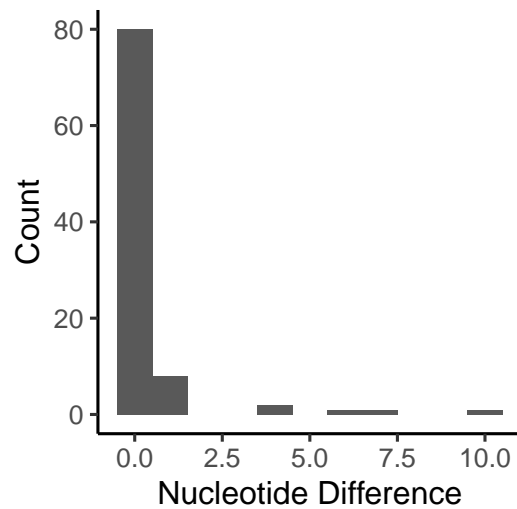
IGHV1–69*08_C191T

954 sequences assigned
857 (89.8%) exact matches, in which:
802 unique CDR3
6 unique J



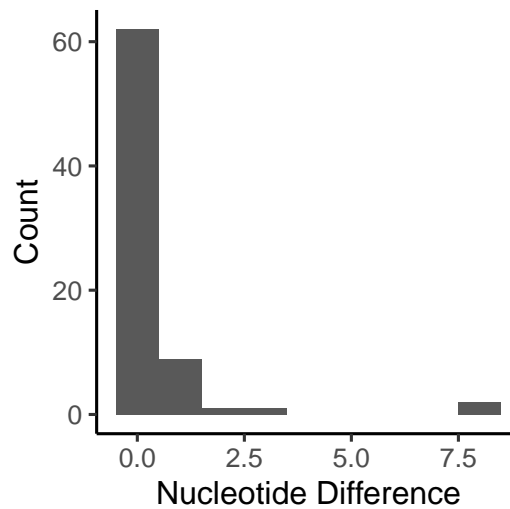
IGHV1–58*01

93 sequences assigned
80 (86%) exact matches, in which:
79 unique CDR3
5 unique J



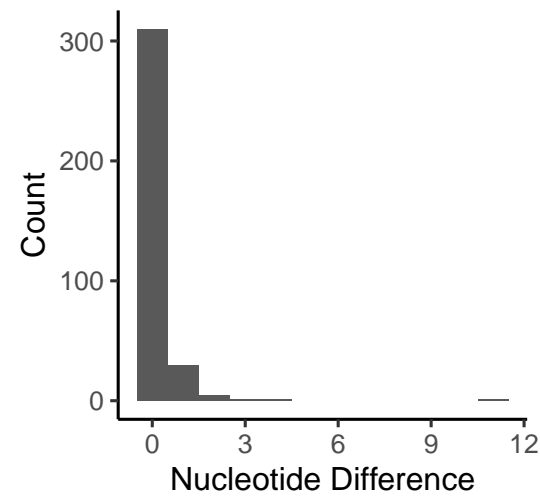
IGHV1–69–2*01

76 sequences assigned
62 (81.6%) exact matches, in which:
60 unique CDR3
5 unique J



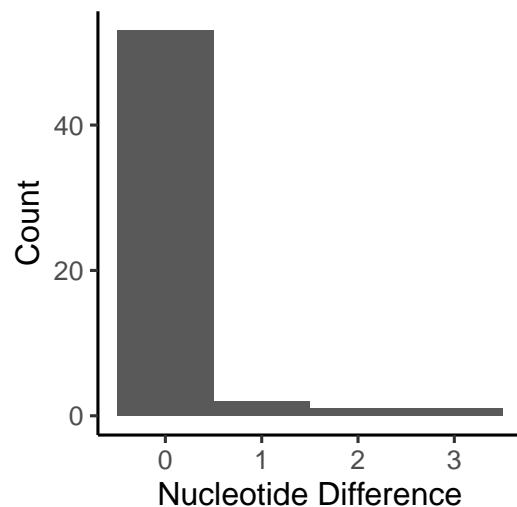
IGHV2–5*01

348 sequences assigned
310 (89.1%) exact matches, in which:
293 unique CDR3
6 unique J



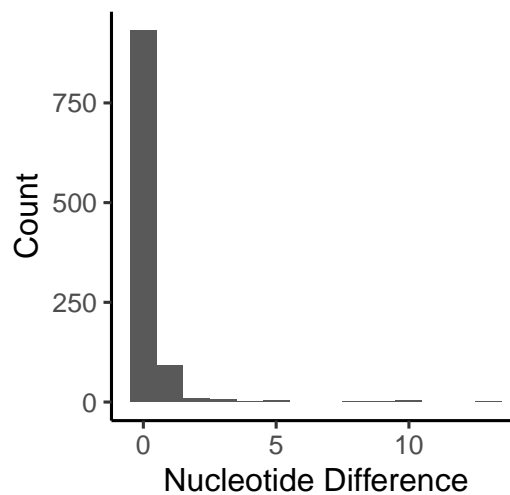
IGHV1–58*02

57 sequences assigned
53 (93%) exact matches, in which:
52 unique CDR3
6 unique J



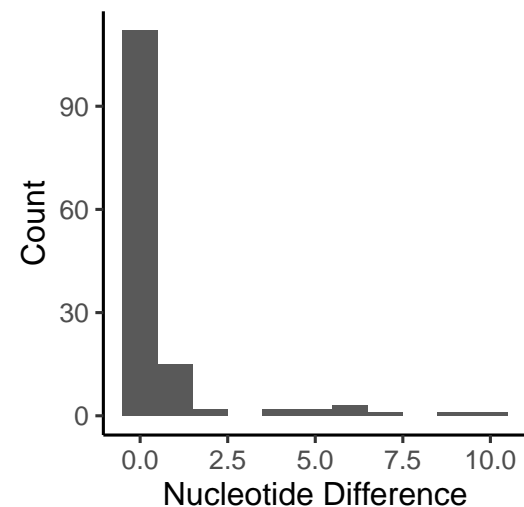
IGHV1–69*06

1051 sequences assigned
932 (88.7%) exact matches, in which:
887 unique CDR3
7 unique J



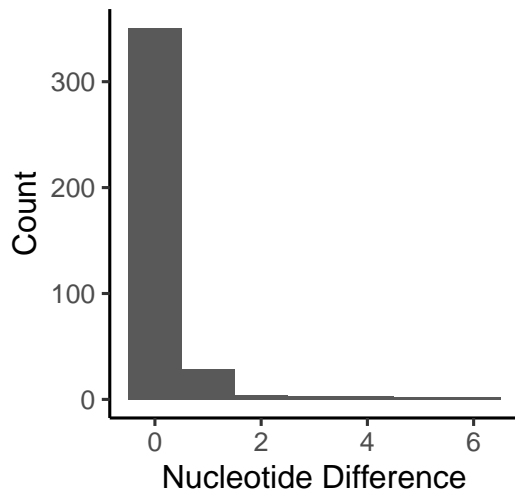
IGHV2–5*02

140 sequences assigned
112 (80%) exact matches, in which:
108 unique CDR3
6 unique J



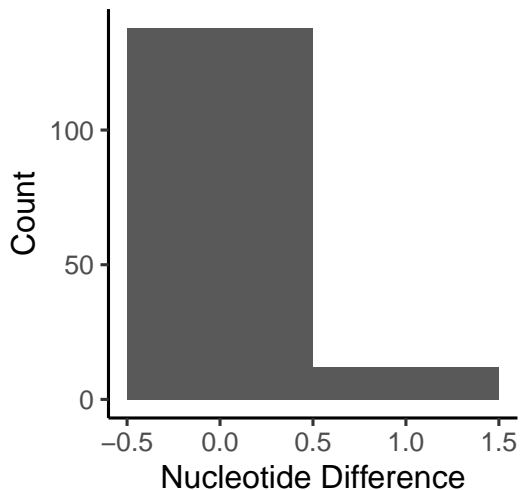
IGHV2-26*01

394 sequences assigned
351 (89.1%) exact matches, in which:
337 unique CDR3
6 unique J



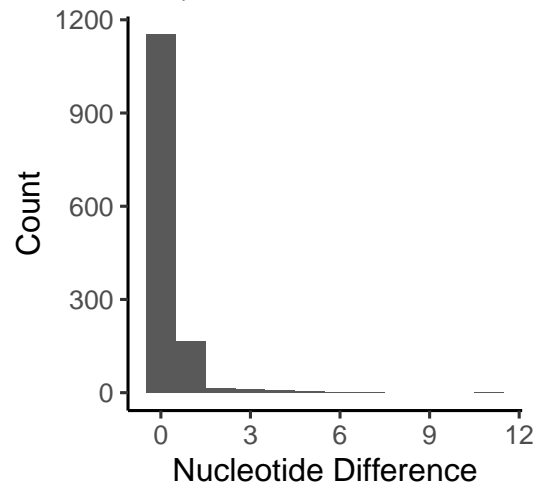
IGHV2-70*15

150 sequences assigned
138 (92%) exact matches, in which:
136 unique CDR3
5 unique J



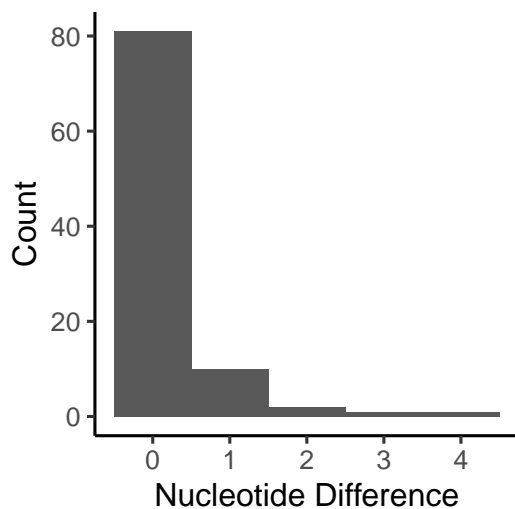
IGHV3-9*01

1360 sequences assigned
1153 (84.8%) exact matches, in which:
1058 unique CDR3
7 unique J



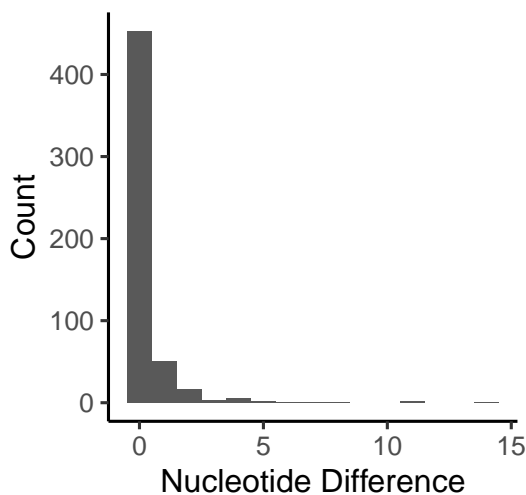
IGHV2-70*01

96 sequences assigned
81 (84.4%) exact matches, in which:
80 unique CDR3
5 unique J



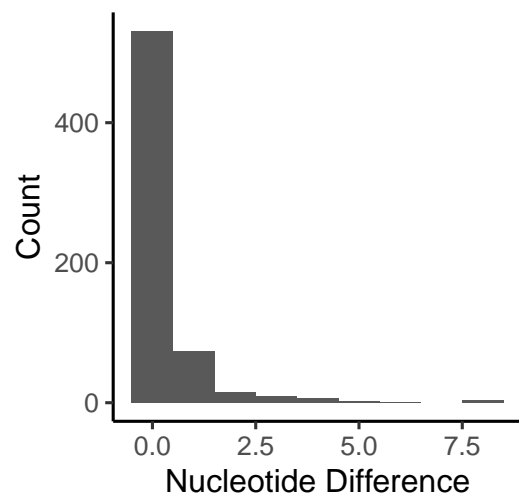
IGHV3-7*01

536 sequences assigned
453 (84.5%) exact matches, in which:
432 unique CDR3
6 unique J



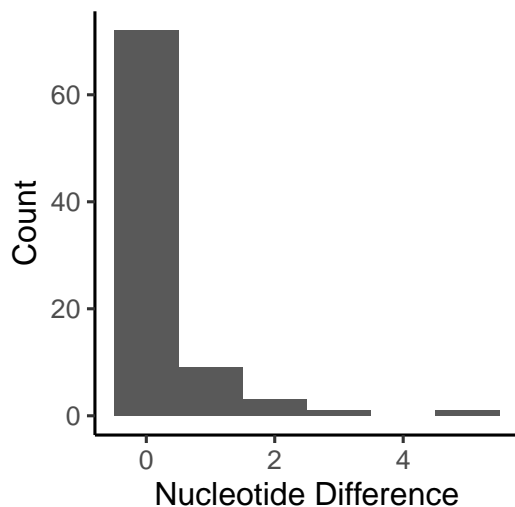
IGHV3-11*01

642 sequences assigned
531 (82.7%) exact matches, in which:
510 unique CDR3
6 unique J



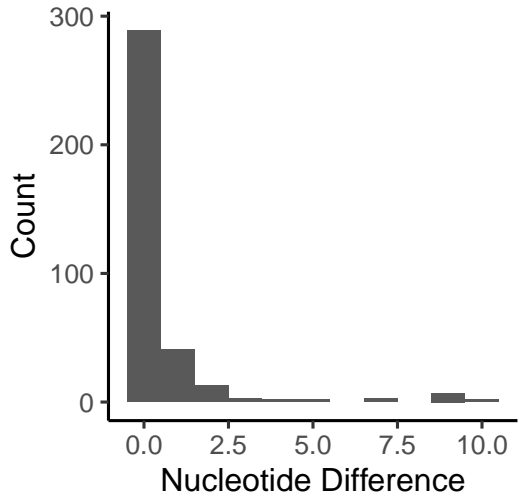
IGHV2-70*04

86 sequences assigned
72 (83.7%) exact matches, in which:
71 unique CDR3
5 unique J



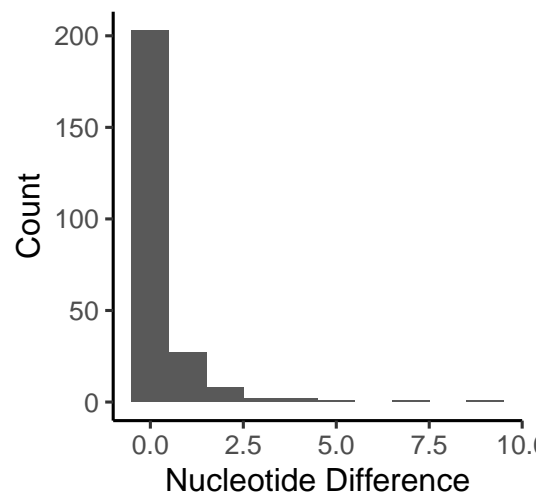
IGHV3-7*03

362 sequences assigned
289 (79.8%) exact matches, in which:
275 unique CDR3
7 unique J



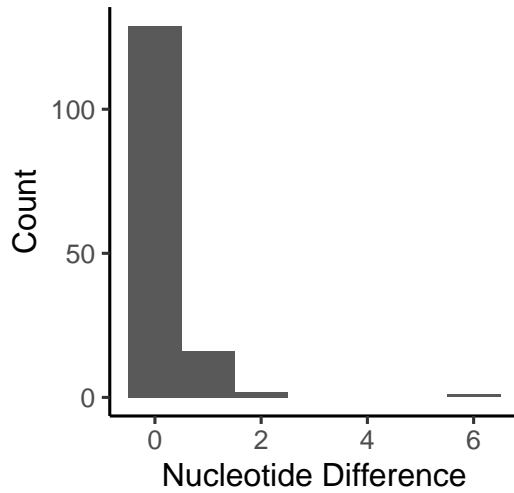
IGHV3-11*06

245 sequences assigned
203 (82.9%) exact matches, in which:
192 unique CDR3
6 unique J



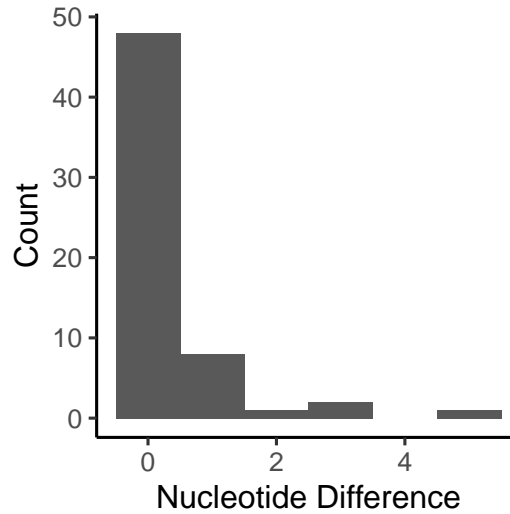
IGHV3-13*01

148 sequences assigned
129 (87.2%) exact matches, in which:
116 unique CDR3
5 unique J



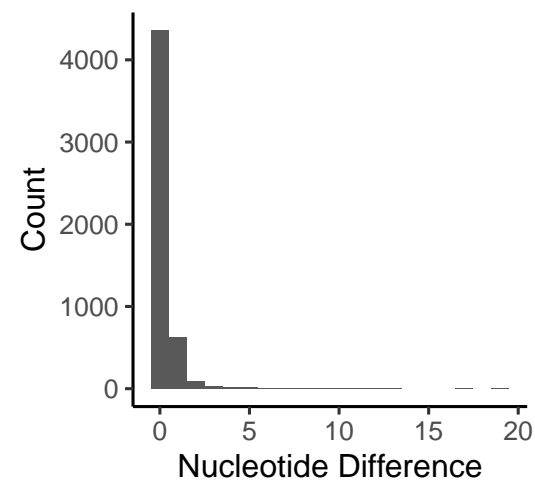
IGHV3-20*01

60 sequences assigned
48 (80%) exact matches, in which:
46 unique CDR3
5 unique J



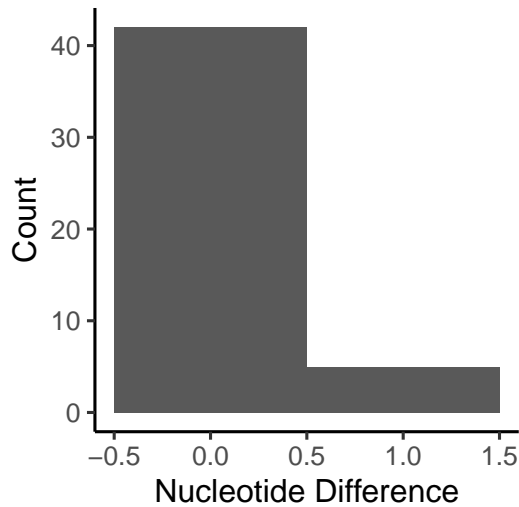
IGHV3-23*01

5209 sequences assigned
4358 (83.7%) exact matches, in which:
4083 unique CDR3
7 unique J



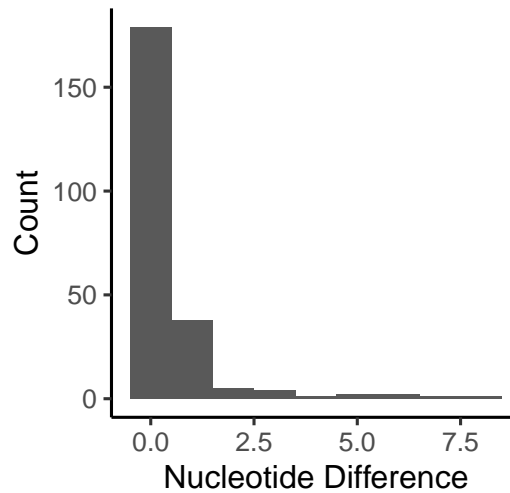
IGHV3-13*05

47 sequences assigned
42 (89.4%) exact matches, in which:
42 unique CDR3
5 unique J



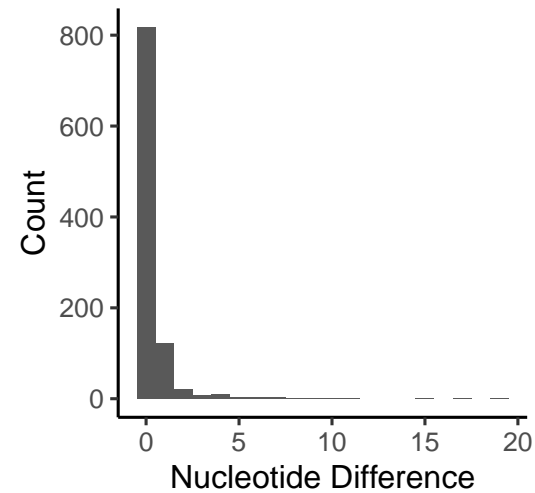
IGHV3-20*04

233 sequences assigned
179 (76.8%) exact matches, in which:
169 unique CDR3
6 unique J



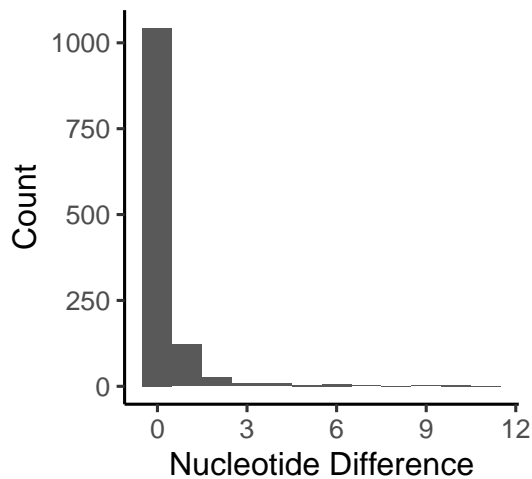
IGHV3-30-3*01

1001 sequences assigned
818 (81.7%) exact matches, in which:
782 unique CDR3
6 unique J



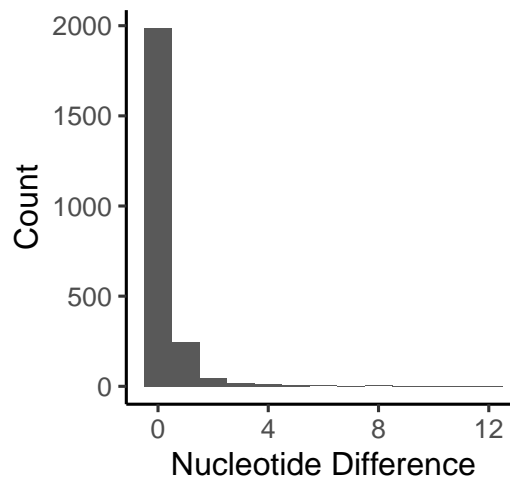
IGHV3-15*01

1226 sequences assigned
1043 (85.1%) exact matches, in which:
997 unique CDR3
7 unique J



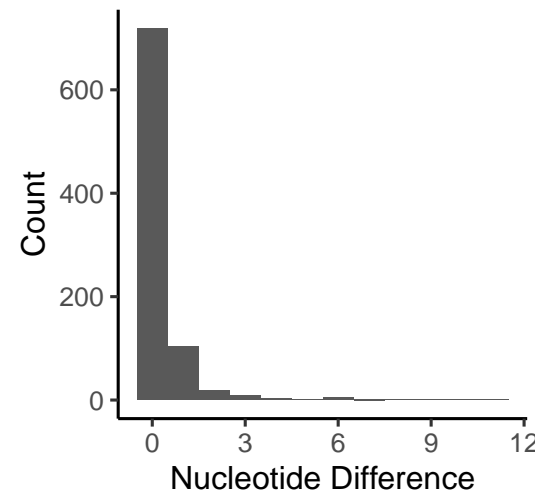
IGHV3-21*01

2338 sequences assigned
1987 (85%) exact matches, in which:
1856 unique CDR3
7 unique J



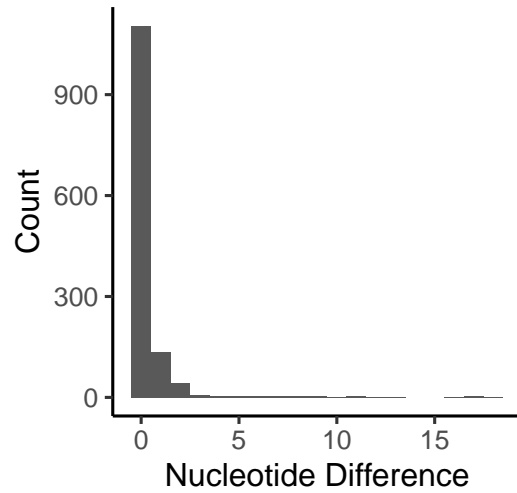
IGHV3-30*18

866 sequences assigned
719 (83%) exact matches, in which:
690 unique CDR3
6 unique J



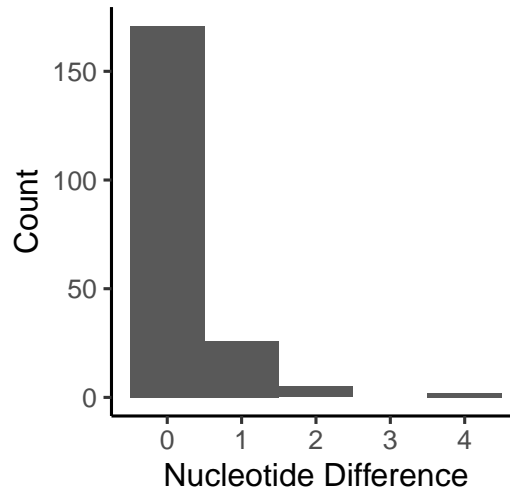
IGHV3–33*01

1333 sequences assigned
1105 (82.9%) exact matches, in which:
1036 unique CDR3
7 unique J



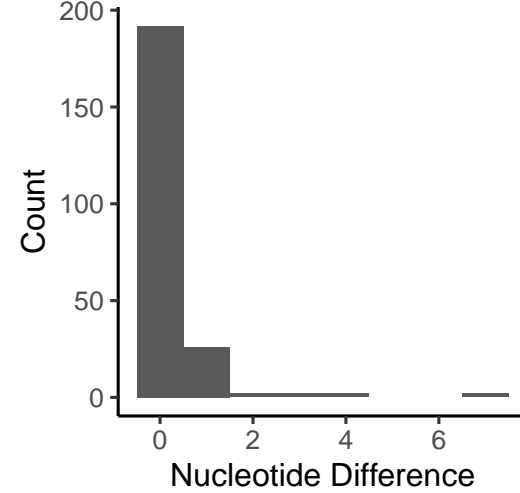
IGHV3–43*01

204 sequences assigned
171 (83.8%) exact matches, in which:
157 unique CDR3
6 unique J



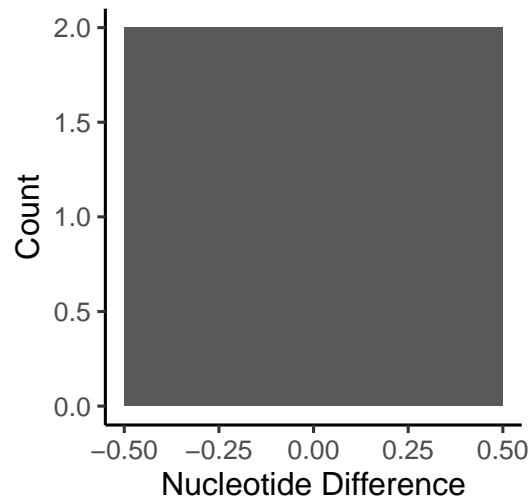
IGHV3–49*05

226 sequences assigned
192 (85%) exact matches, in which:
181 unique CDR3
6 unique J



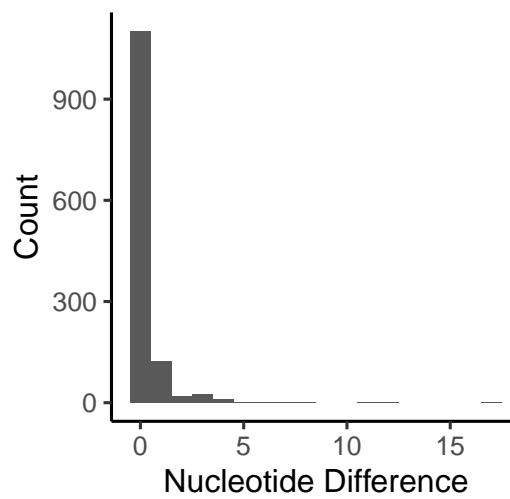
IGHV3–38–3*01

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



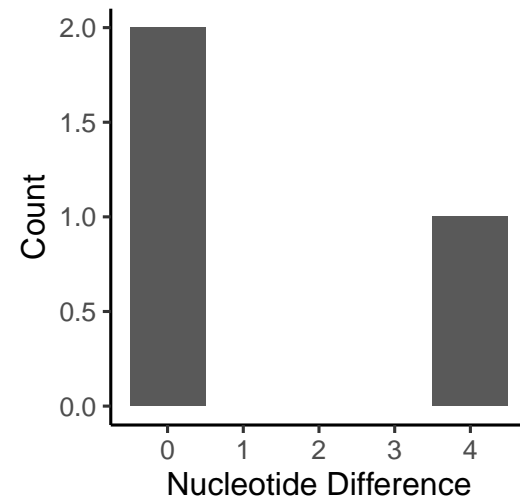
IGHV3–48*02

1289 sequences assigned
1102 (85.5%) exact matches, in which:
1037 unique CDR3
7 unique J



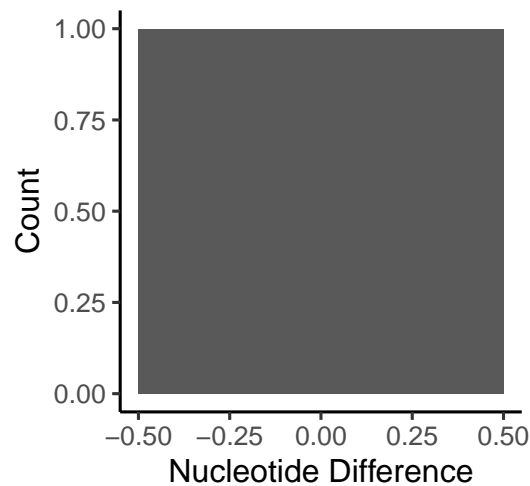
IGHV3–52*01

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



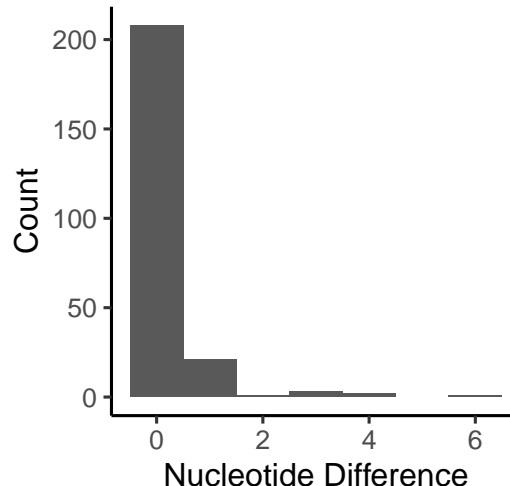
IGHV3–38*01

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



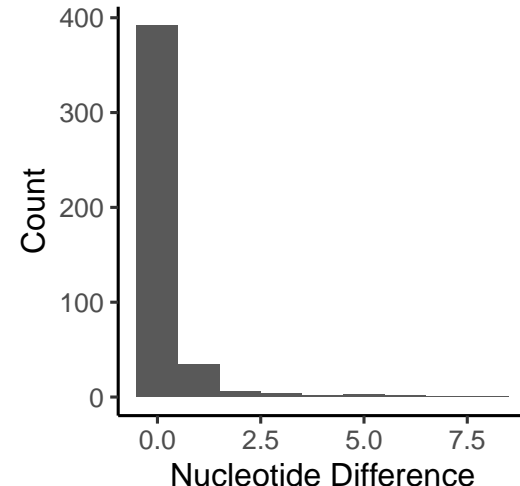
IGHV3–49*04

236 sequences assigned
208 (88.1%) exact matches, in which:
198 unique CDR3
6 unique J



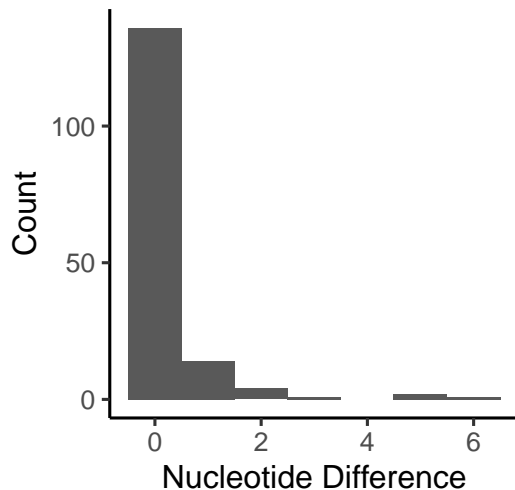
IGHV3–53*01

445 sequences assigned
392 (88.1%) exact matches, in which:
374 unique CDR3
7 unique J



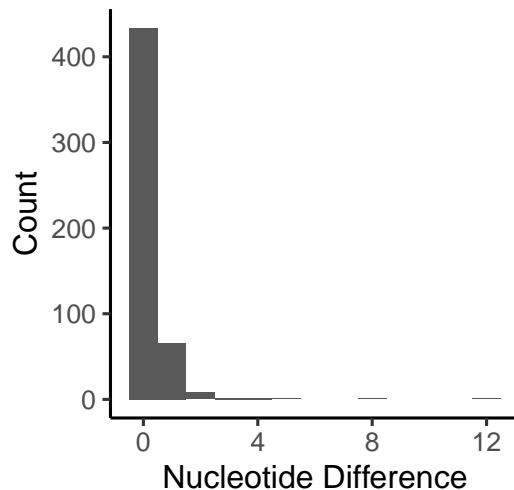
IGHV3–53*04

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



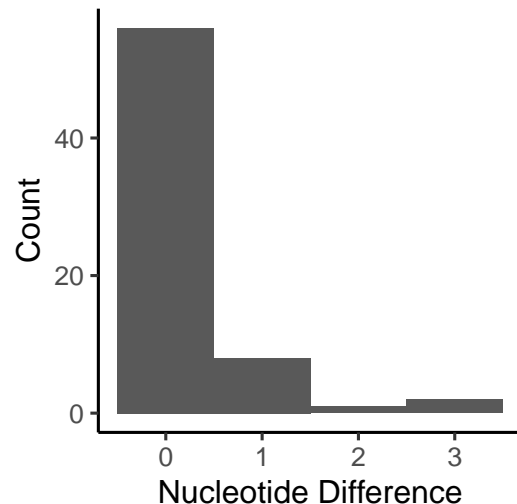
IGHV3–66*01

515 sequences assigned
434 (84.3%) exact matches, in which:
394 unique CDR3
6 unique J



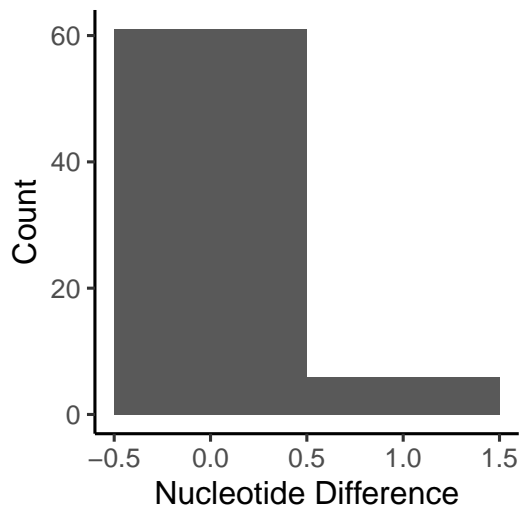
IGHV3–72*01

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



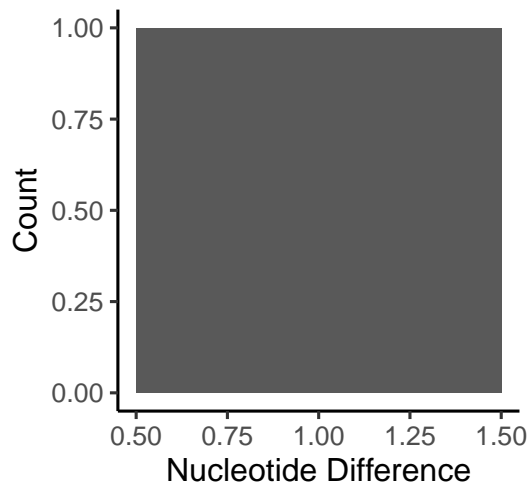
IGHV3–64*01

67 sequences assigned
61 (91%) exact matches, in which:
57 unique CDR3
6 unique J



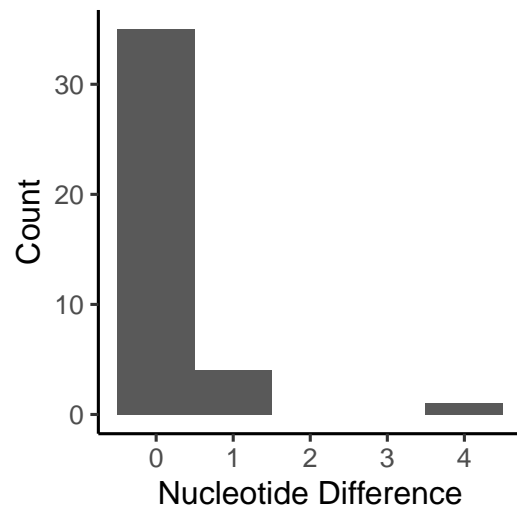
IGHV3–69–1*01

1 sequences assigned
No exact matches.



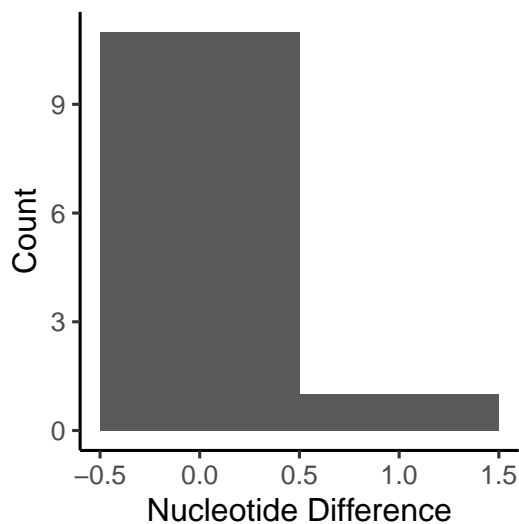
IGHV3–73*01

40 sequences assigned
35 (87.5%) exact matches, in which:
32 unique CDR3
4 unique J



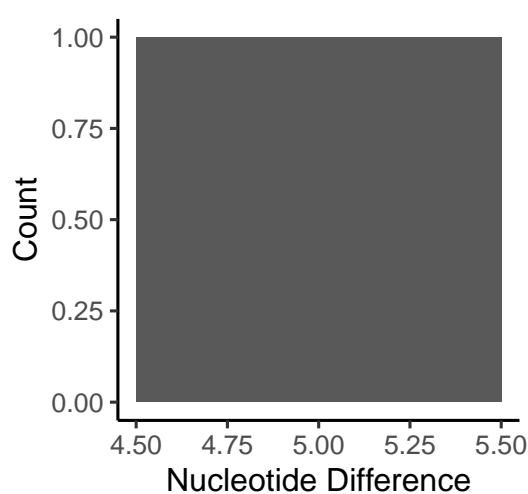
IGHV3–64*02

12 sequences assigned
11 (91.7%) exact matches, in which:
11 unique CDR3
4 unique J



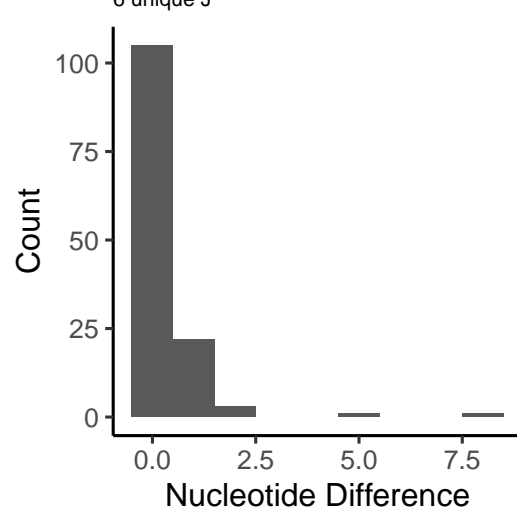
IGHV3–71*02

1 sequences assigned
No exact matches.



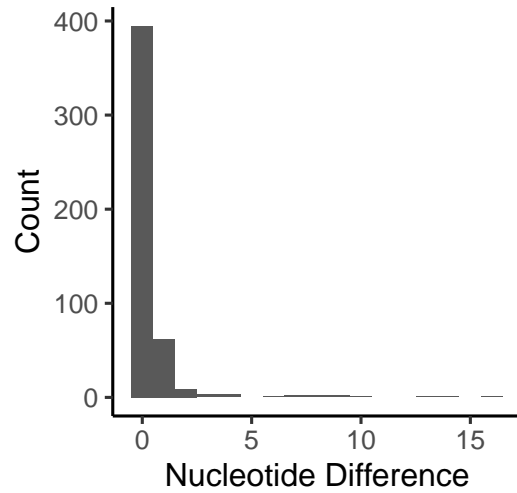
IGHV3–73*02

132 sequences assigned
105 (79.5%) exact matches, in which:
100 unique CDR3
6 unique J



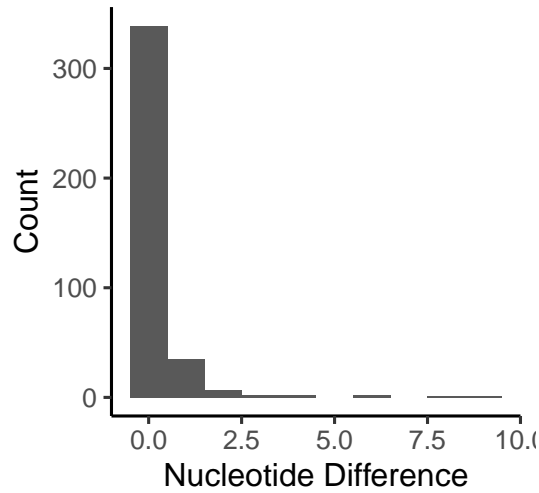
IGHV3-74*01

485 sequences assigned
395 (81.4%) exact matches, in which:
373 unique CDR3
7 unique J



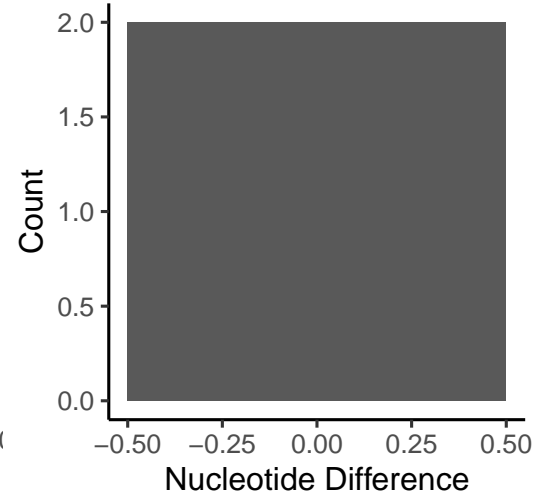
IGHV4-4*02

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



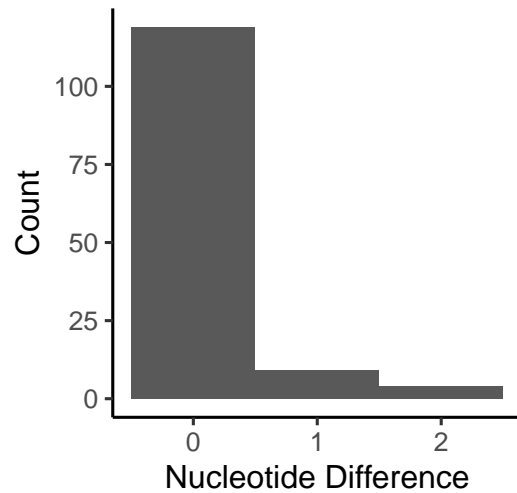
IGHV4-28*03

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



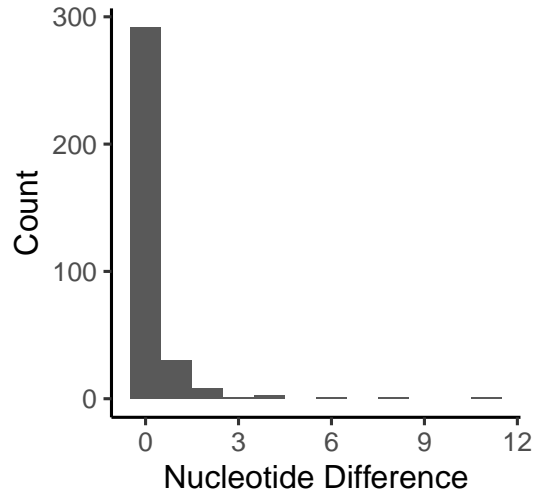
IGHV3-43D*03

132 sequences assigned
119 (90.2%) exact matches, in which:
112 unique CDR3
5 unique J



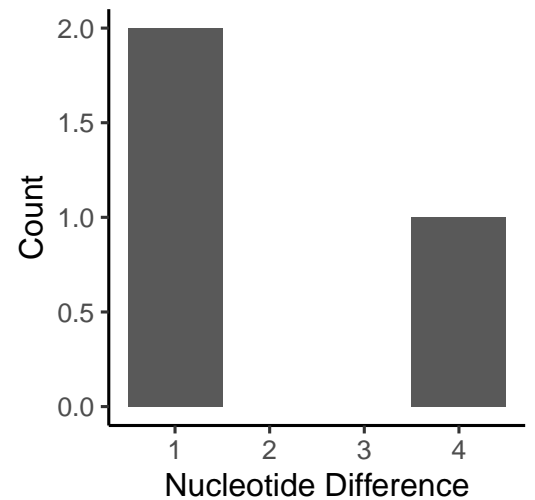
IGHV4-4*07

337 sequences assigned
292 (86.6%) exact matches, in which:
275 unique CDR3
6 unique J



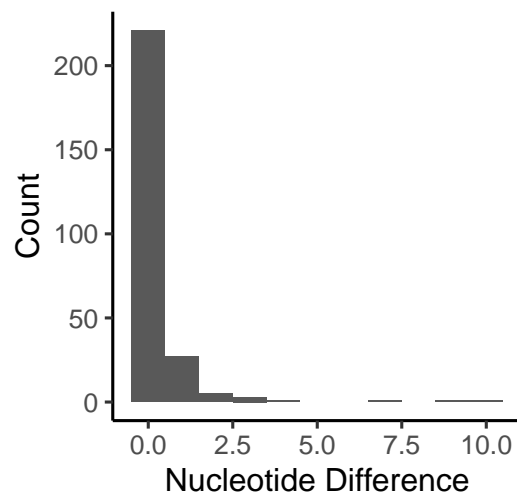
IGHV4-28*04

3 sequences assigned
No exact matches.



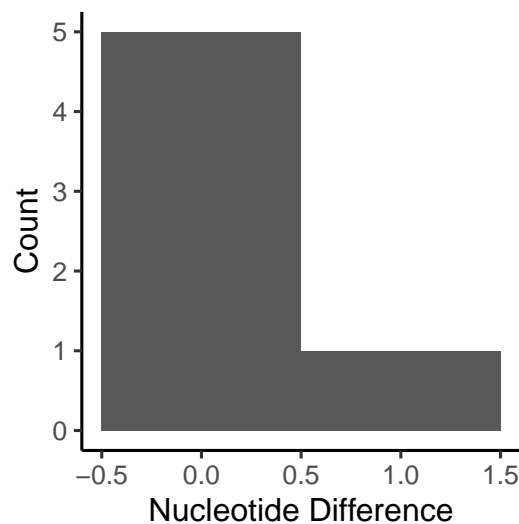
IGHV3-64D*09

260 sequences assigned
221 (85%) exact matches, in which:
204 unique CDR3
6 unique J



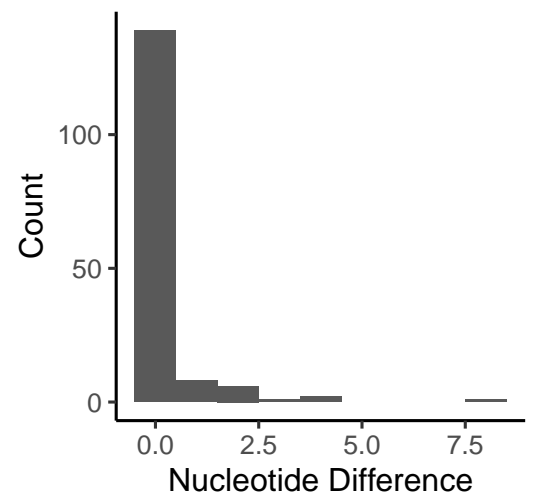
IGHV4-28*01

6 sequences assigned
5 (83.3%) exact matches, in which:
5 unique CDR3
2 unique J



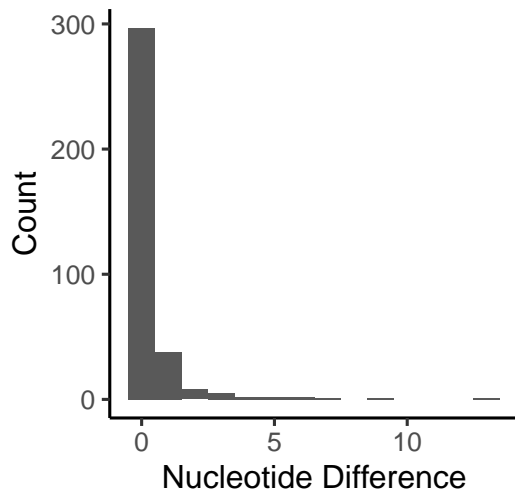
IGHV4-30-2*01

157 sequences assigned
139 (88.5%) exact matches, in which:
132 unique CDR3
6 unique J



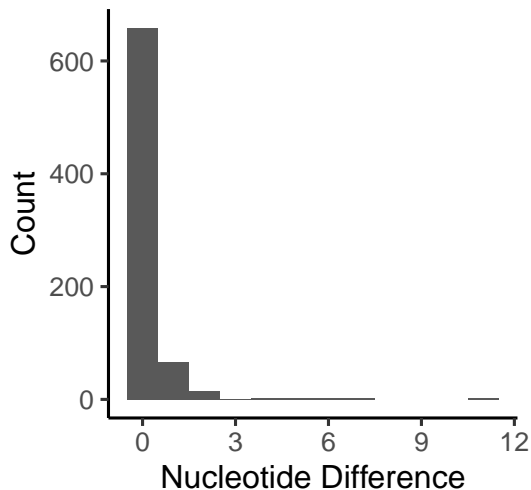
IGHV4-30-4*01

360 sequences assigned
297 (82.5%) exact matches, in which:
286 unique CDR3
6 unique J



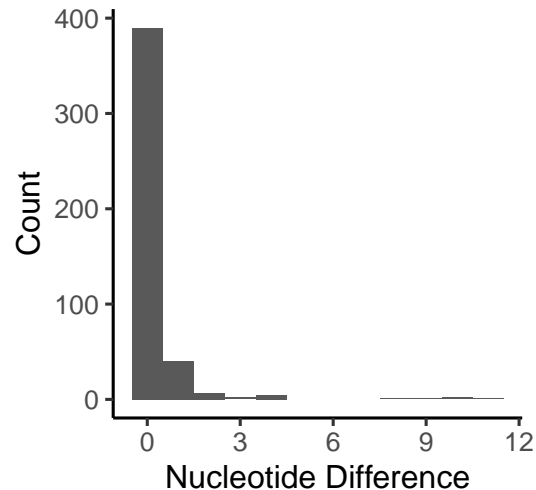
IGHV4-38-2*02

755 sequences assigned
659 (87.3%) exact matches, in which:
608 unique CDR3
6 unique J



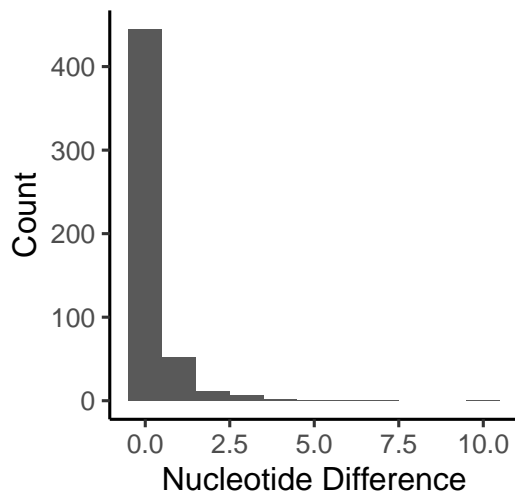
IGHV4-59*08

450 sequences assigned
390 (86.7%) exact matches, in which:
378 unique CDR3
6 unique J



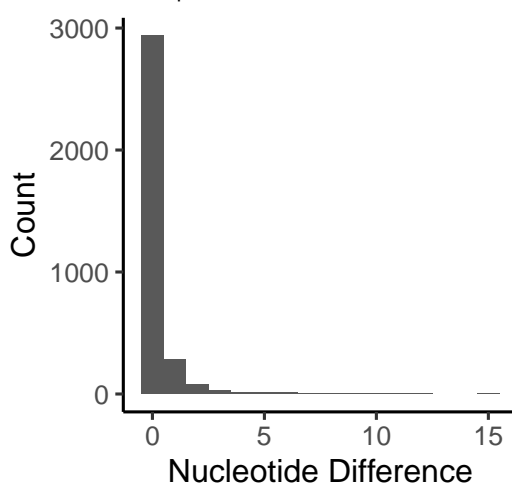
IGHV4-31*03

521 sequences assigned
445 (85.4%) exact matches, in which:
422 unique CDR3
6 unique J



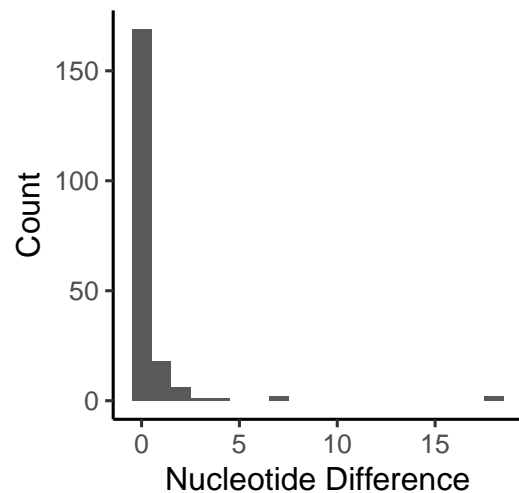
IGHV4-39*01

3399 sequences assigned
2937 (86.4%) exact matches, in which:
2744 unique CDR3
7 unique J



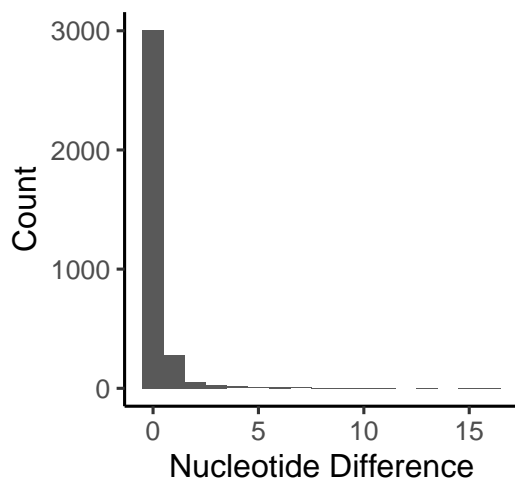
IGHV4-61*01

199 sequences assigned
169 (84.9%) exact matches, in which:
165 unique CDR3
6 unique J



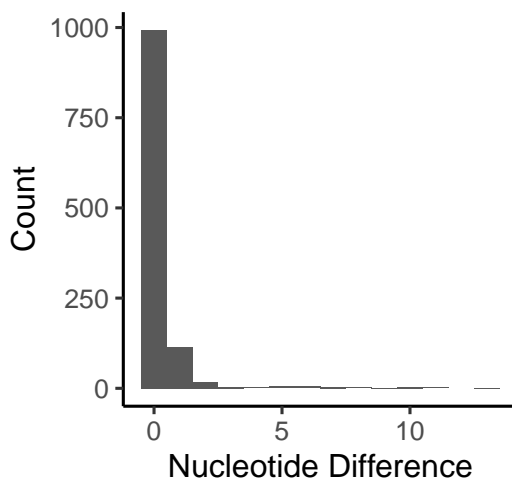
IGHV4-34*01

3420 sequences assigned
3006 (87.9%) exact matches, in which:
2806 unique CDR3
7 unique J



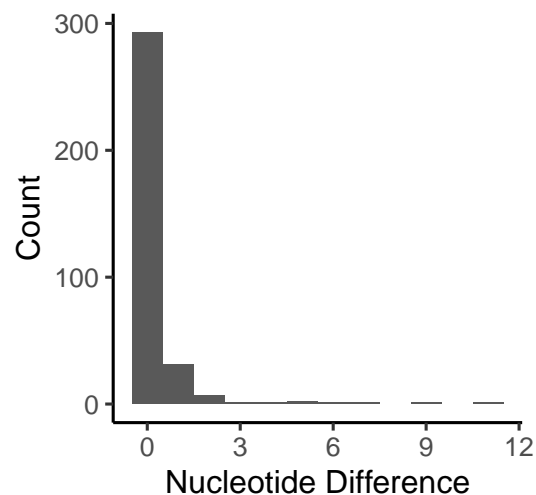
IGHV4-59*01

1154 sequences assigned
993 (86%) exact matches, in which:
956 unique CDR3
7 unique J



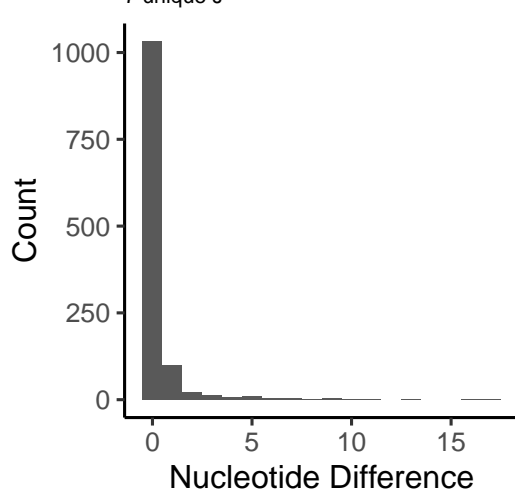
IGHV5-10-1*03

339 sequences assigned
293 (86.4%) exact matches, in which:
281 unique CDR3
6 unique J



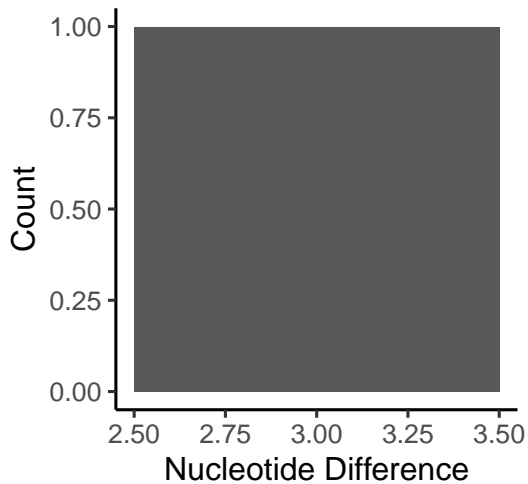
IGHV5–51*01

1203 sequences assigned
1032 (85.8%) exact matches, in which:
987 unique CDR3
7 unique J



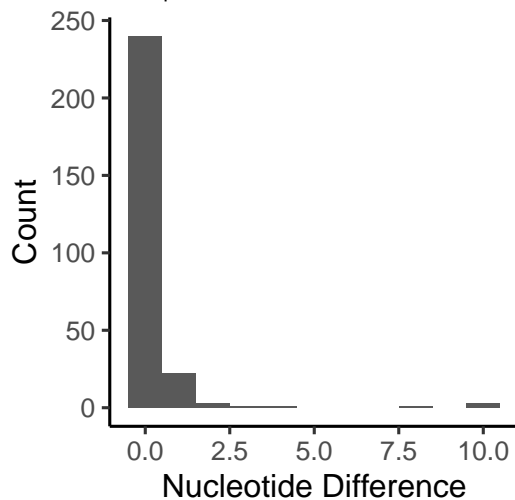
IGHV3/OR16–9*01

1 sequences assigned
No exact matches.



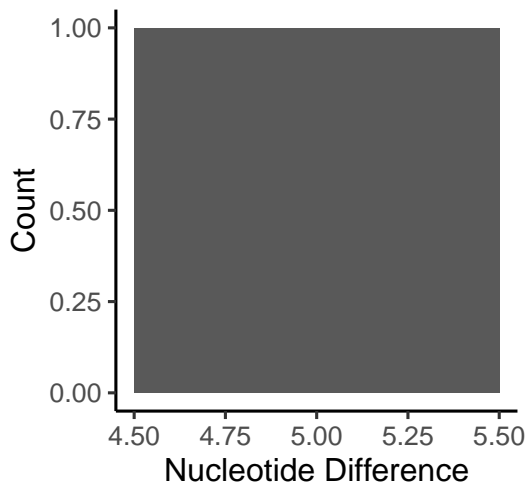
IGHV6–1*01

271 sequences assigned
240 (88.6%) exact matches, in which:
230 unique CDR3
6 unique J



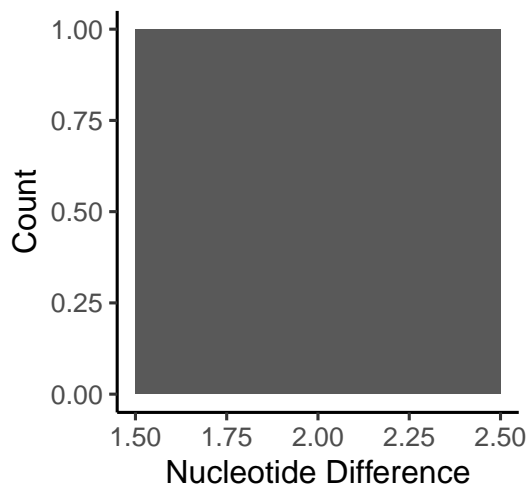
IGHV3/OR16–15*02

1 sequences assigned
No exact matches.



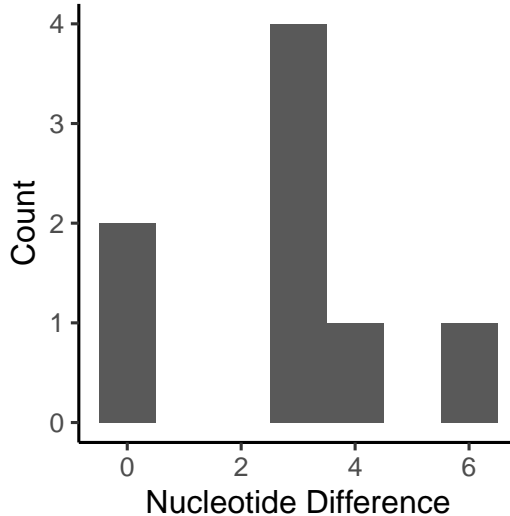
IGHV3/OR16–6*02

1 sequences assigned
No exact matches.

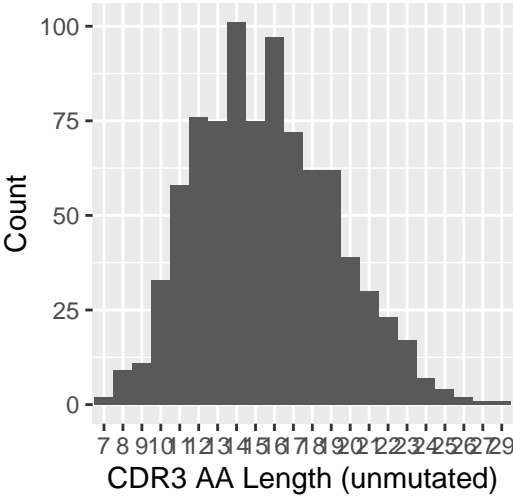


IGHV7–4–1*01

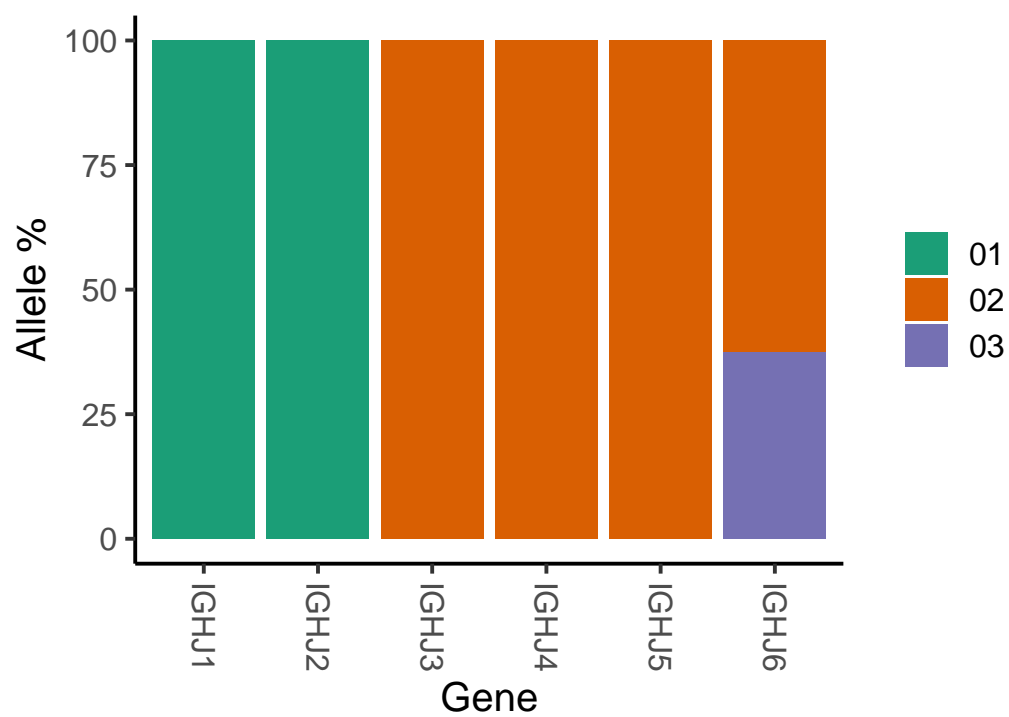
8 sequences assigned
2 (25%) exact matches, in which:
2 unique CDR3
1 unique J



IGHV1-69*08_C191T



Allele Usage



Sequence Count by IGHJ6 allele usage

