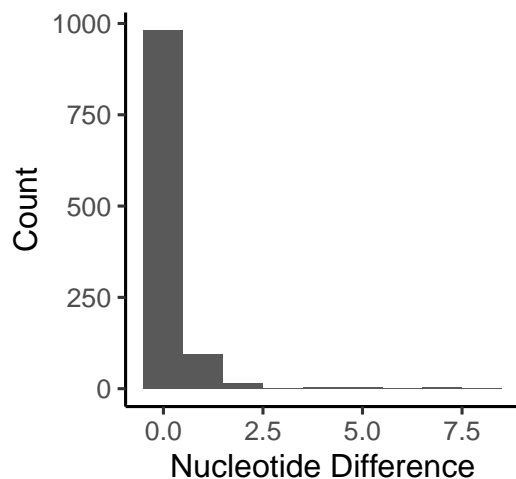


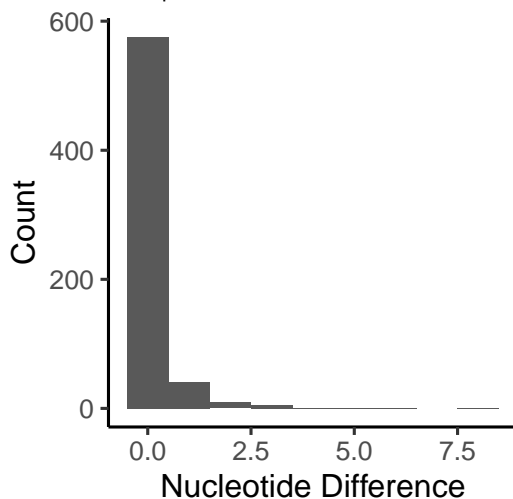
IGHV1-2*02

1112 sequences assigned
981 (88.2%) exact matches, in which:
923 unique CDR3
6 unique J



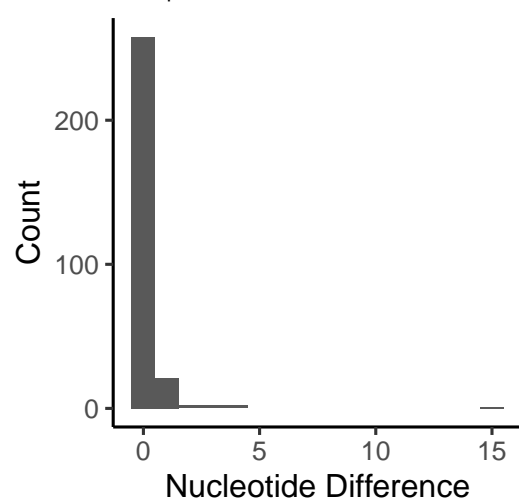
IGHV1-8*01

635 sequences assigned
576 (90.7%) exact matches, in which:
556 unique CDR3
7 unique J



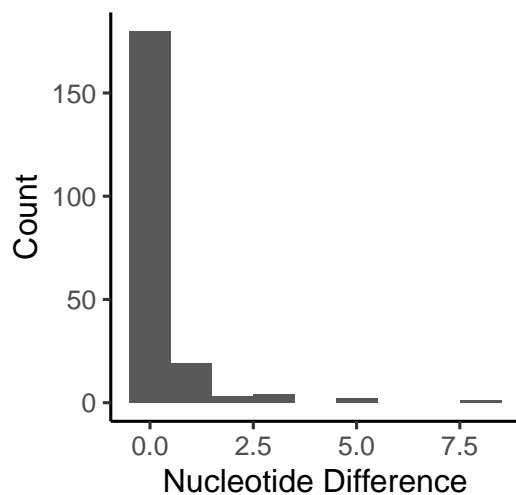
IGHV1-24*01

286 sequences assigned
258 (90.2%) exact matches, in which:
244 unique CDR3
7 unique J



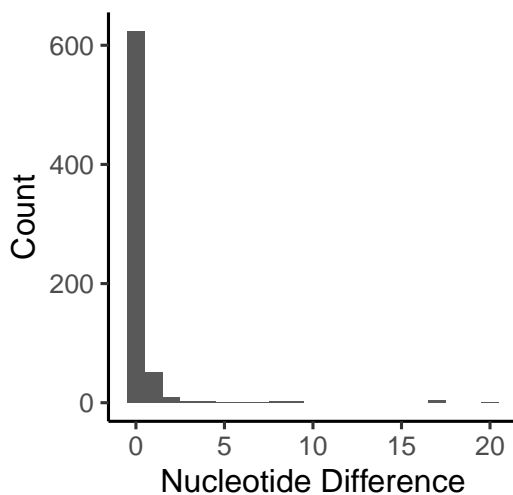
IGHV1-2*04

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



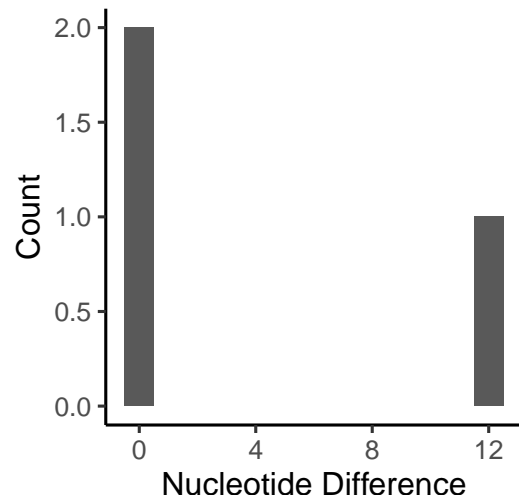
IGHV1-18*01

704 sequences assigned
624 (88.6%) exact matches, in which:
606 unique CDR3
7 unique J



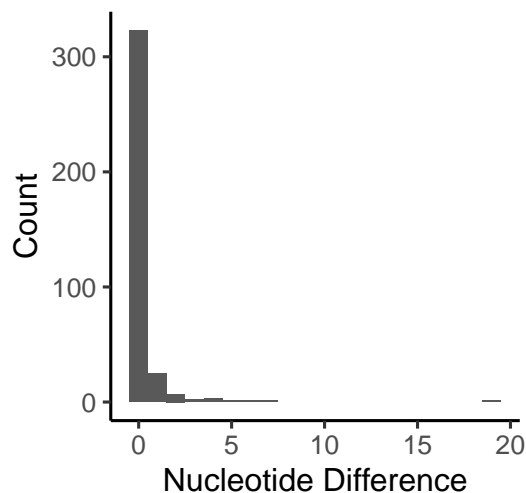
IGHV1-45*02

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



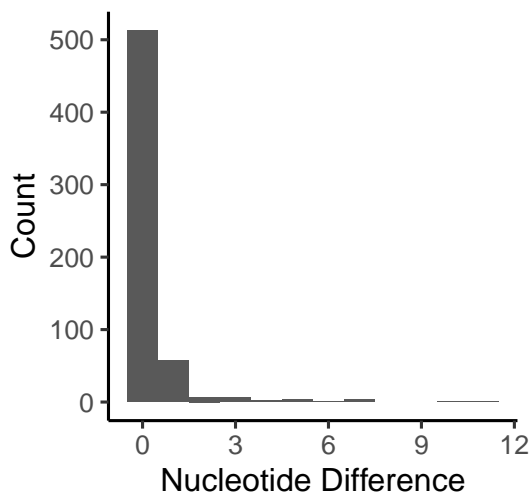
IGHV1-3*01

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



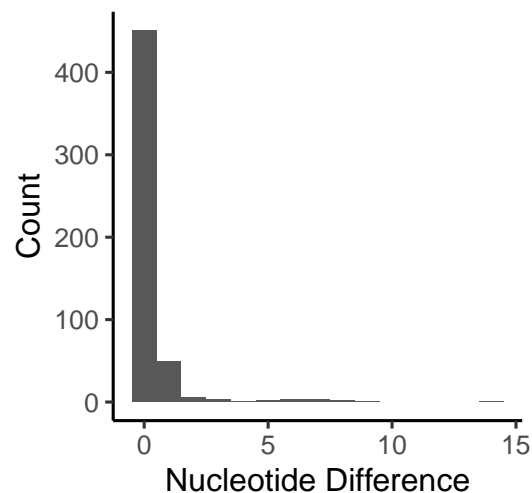
IGHV1-18*04

595 sequences assigned
513 (86.2%) exact matches, in which:
493 unique CDR3
7 unique J



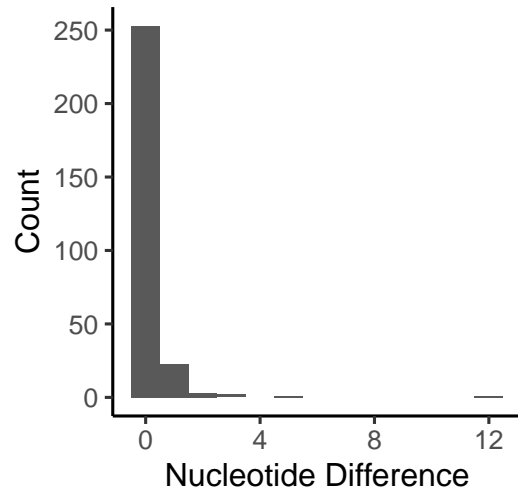
IGHV1-46*01

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



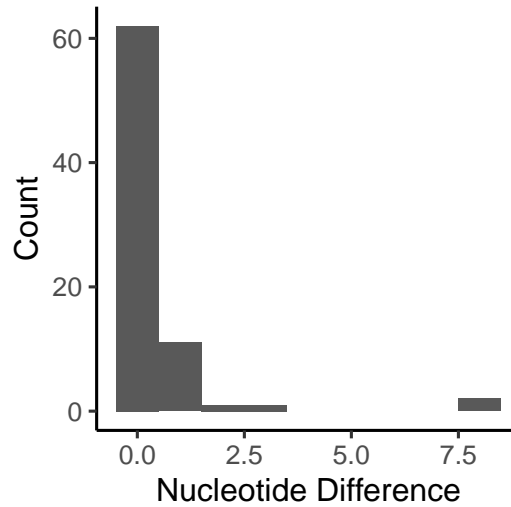
IGHV1-46*03

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



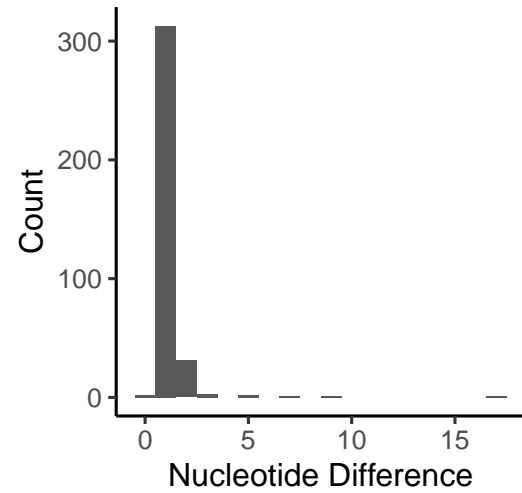
IGHV1-69-2*01

78 sequences assigned
62 (79.5%) exact matches, in which:
60 unique CDR3
5 unique J



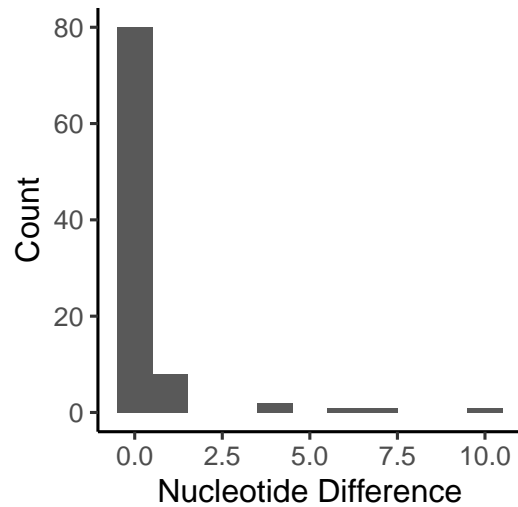
IGHV1-69*08

354 sequences assigned
2 (0.6%) exact matches, in which:
2 unique CDR3
1 unique J



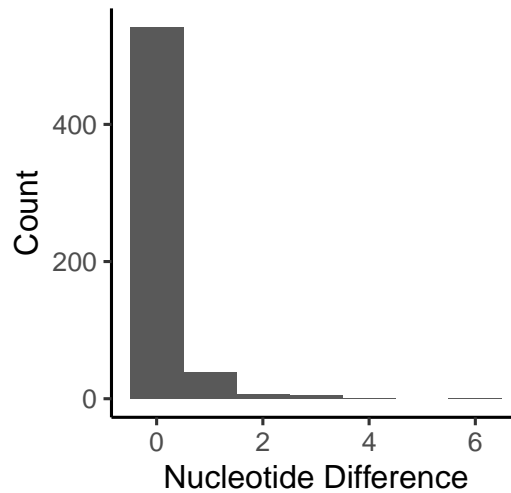
IGHV1-58*01

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



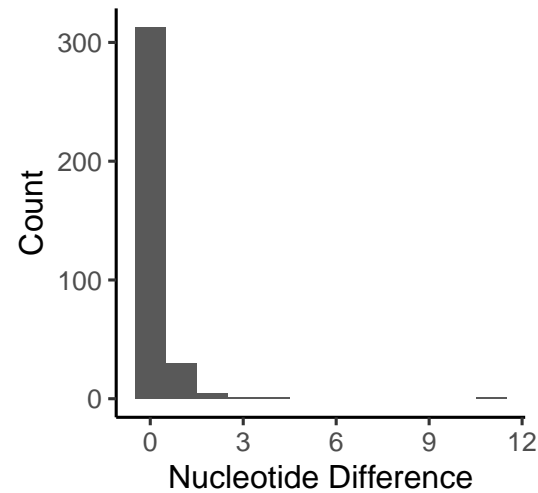
IGHV1-69*02

602 sequences assigned
542 (90%) exact matches, in which:
508 unique CDR3
6 unique J



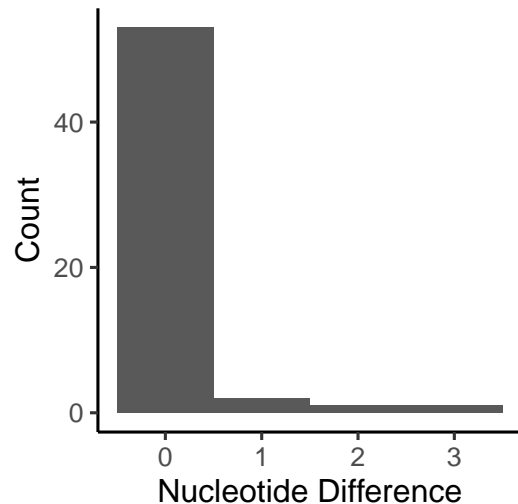
IGHV2-5*01

351 sequences assigned
313 (89.2%) exact matches, in which:
296 unique CDR3
6 unique J



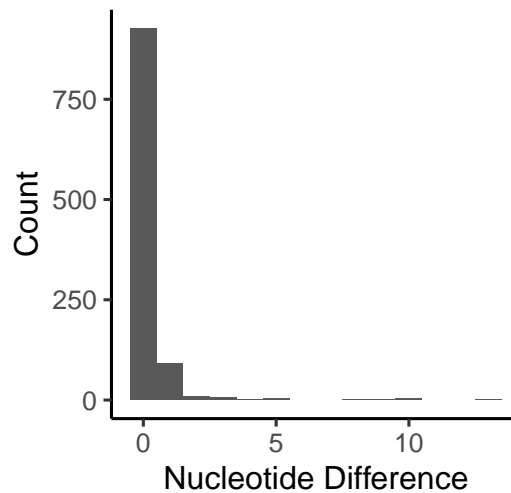
IGHV1-58*02

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



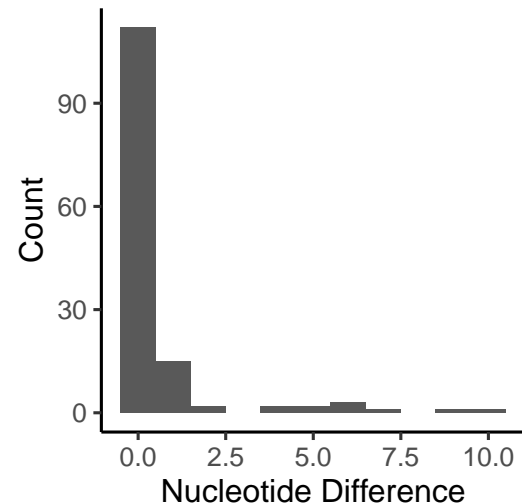
IGHV1-69*06

1046 sequences assigned
927 (88.6%) exact matches, in which:
884 unique CDR3
6 unique J



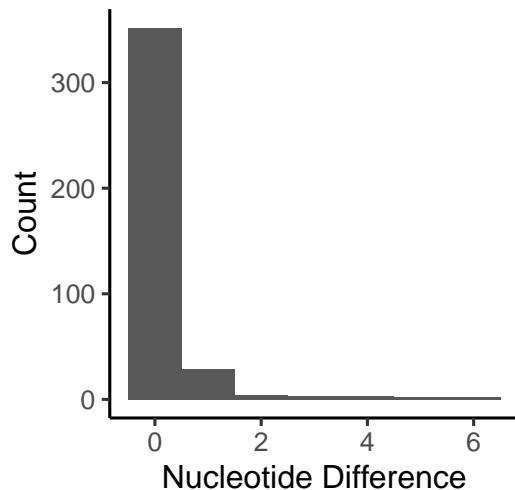
IGHV2-5*02

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



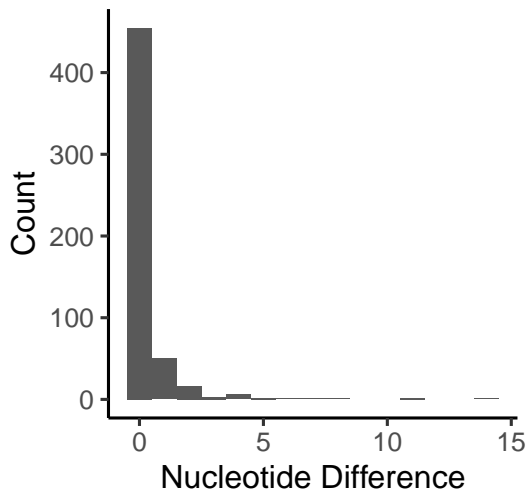
IGHV2-26*01

395 sequences assigned
352 (89.1%) exact matches, in which:
337 unique CDR3
6 unique J



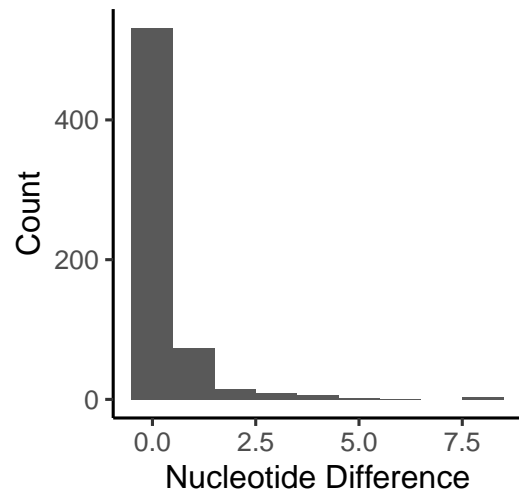
IGHV3-7*01

538 sequences assigned
455 (84.6%) exact matches, in which:
434 unique CDR3
6 unique J



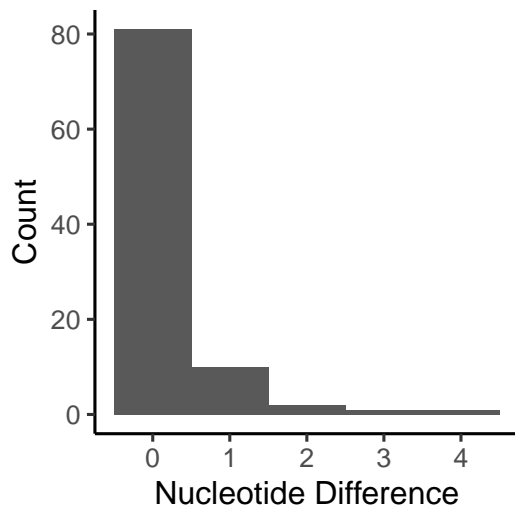
IGHV3-11*01

643 sequences assigned
532 (82.7%) exact matches, in which:
511 unique CDR3
6 unique J



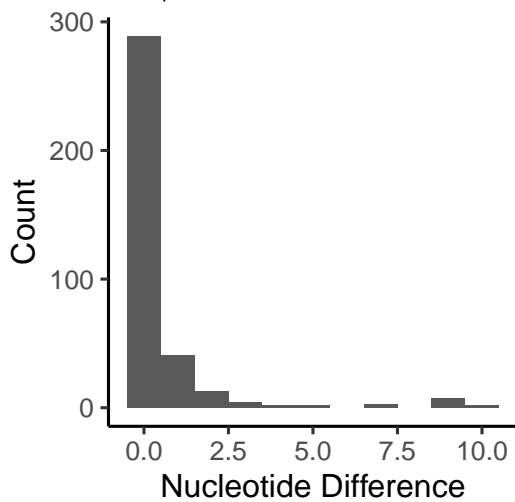
IGHV2-70*01

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



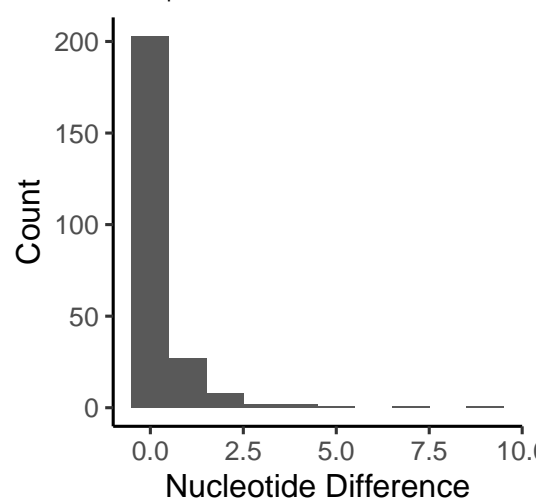
IGHV3-7*03

363 sequences assigned
289 (79.6%) exact matches, in which:
275 unique CDR3
7 unique J



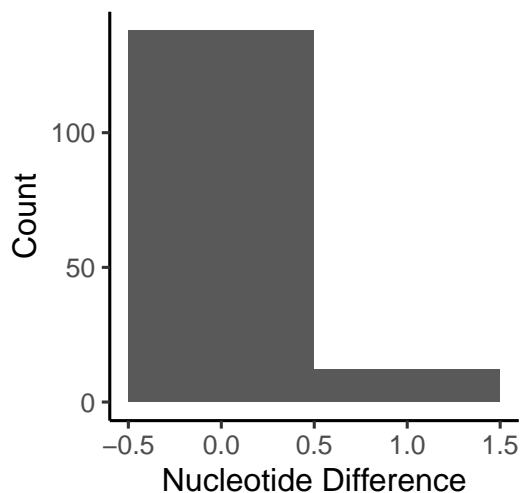
IGHV3-11*06

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



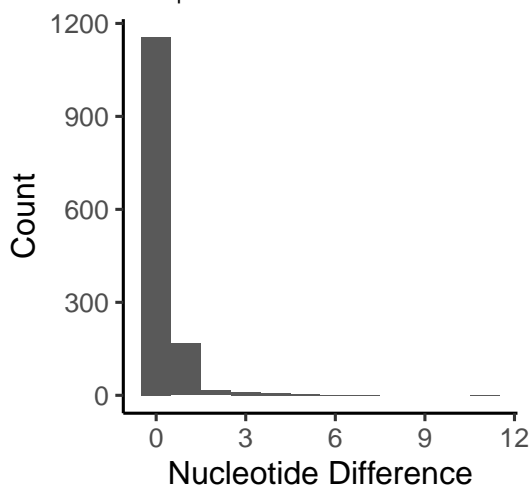
IGHV2-70*15

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



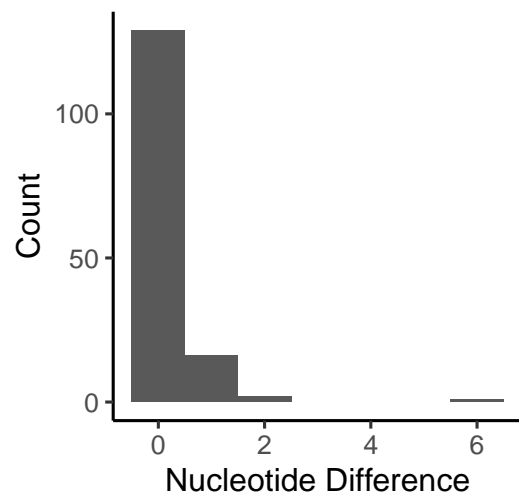
IGHV3-9*01

1363 sequences assigned
1156 (84.8%) exact matches, in which:
1060 unique CDR3
7 unique J



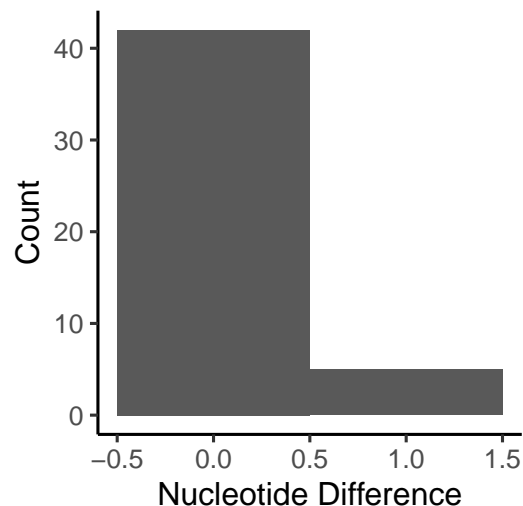
IGHV3-13*01

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



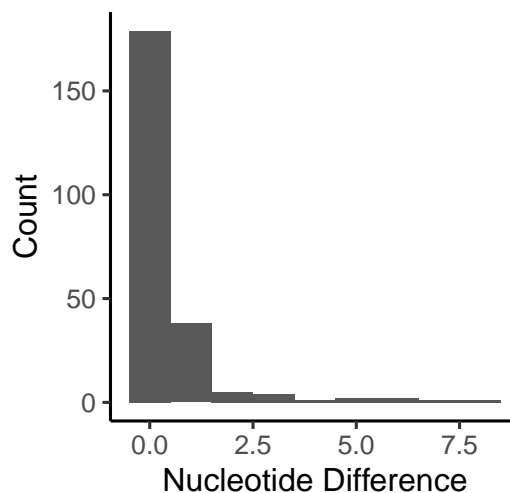
IGHV3-13*05

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



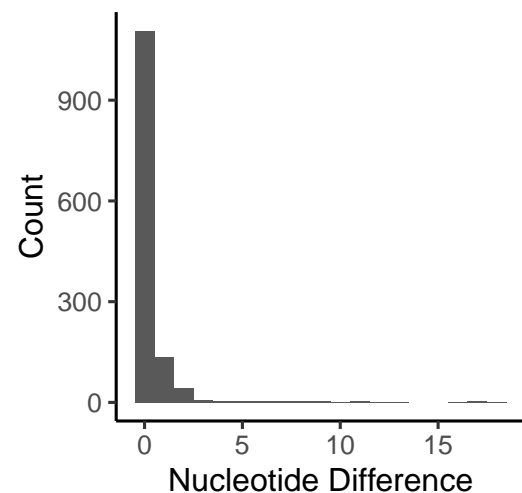
IGHV3-20*04

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



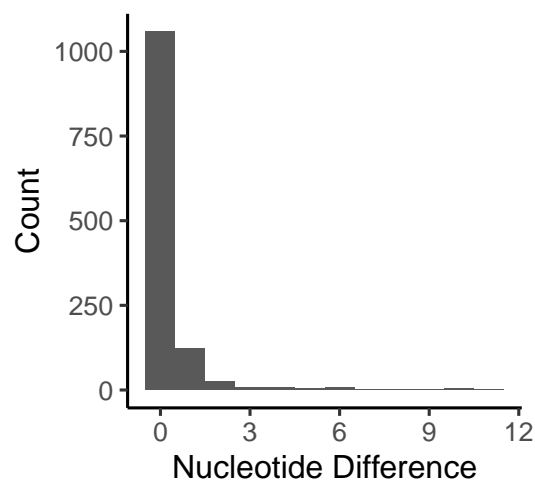
IGHV3-33*01

1336 sequences assigned
1107 (82.9%) exact matches, in which:
1038 unique CDR3
7 unique J



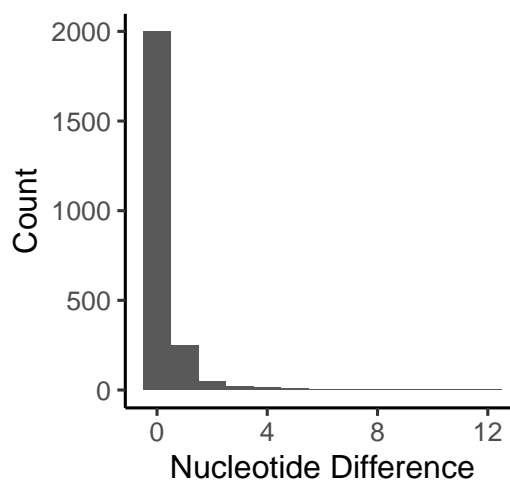
IGHV3-15*01

1243 sequences assigned
1058 (85.1%) exact matches, in which:
1012 unique CDR3
7 unique J



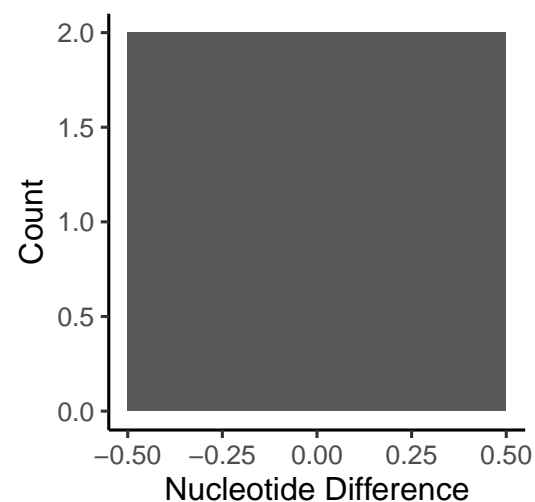
IGHV3-21*01

2350 sequences assigned
1998 (85%) exact matches, in which:
1867 unique CDR3
7 unique J



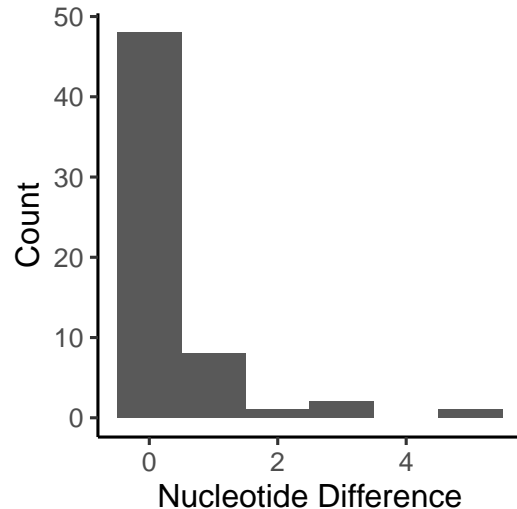
IGHV3-38-3*01

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



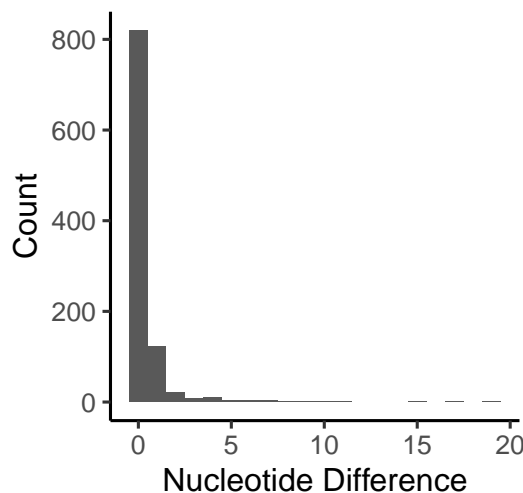
IGHV3-20*01

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



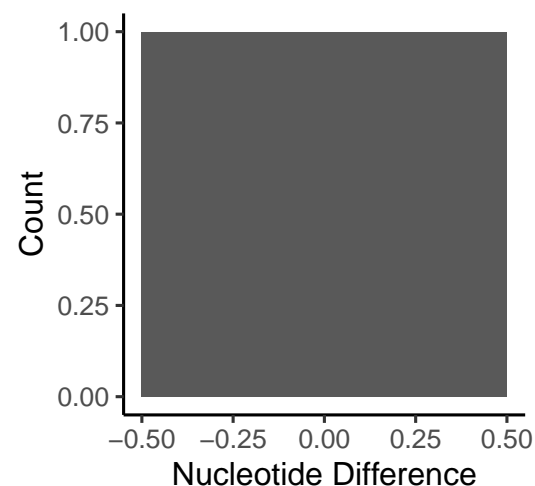
IGHV3-30-3*01

1004 sequences assigned
820 (81.7%) exact matches, in which:
784 unique CDR3
6 unique J



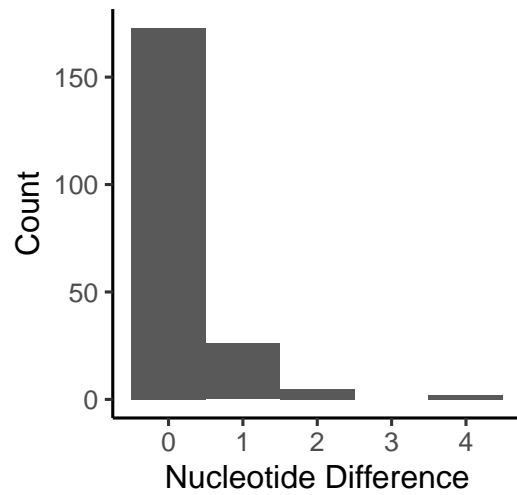
IGHV3-38*01

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



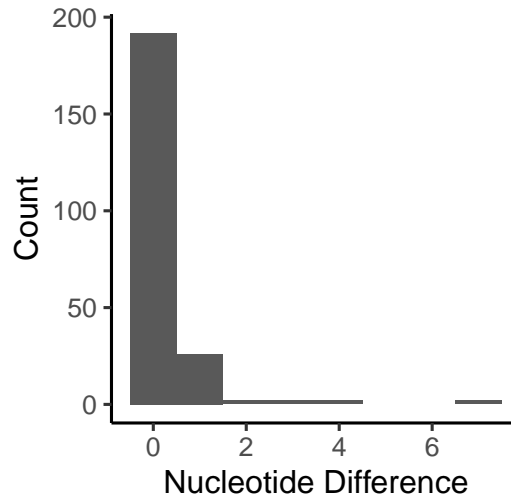
IGHV3-43*01

206 sequences assigned
173 (84%) exact matches, in which:
159 unique CDR3
6 unique J



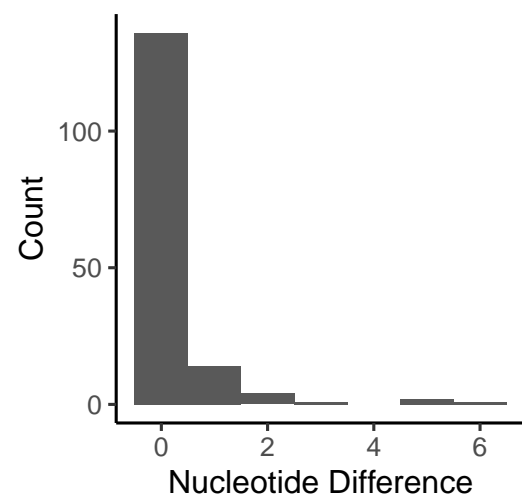
IGHV3-49*05

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



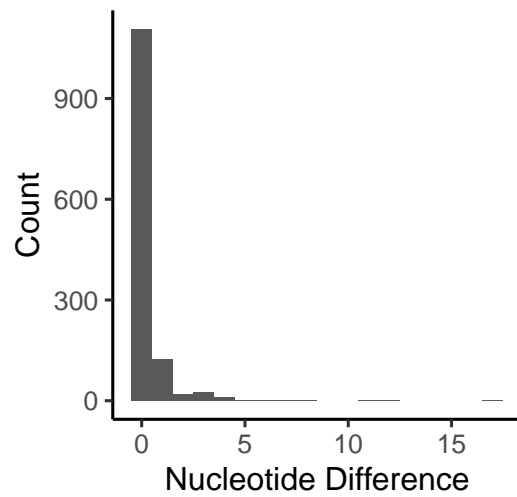
IGHV3-53*04

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



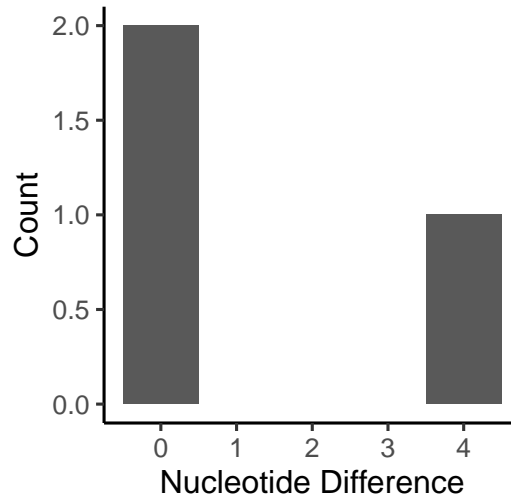
IGHV3-48*02

1296 sequences assigned
1107 (85.4%) exact matches, in which:
1042 unique CDR3
7 unique J



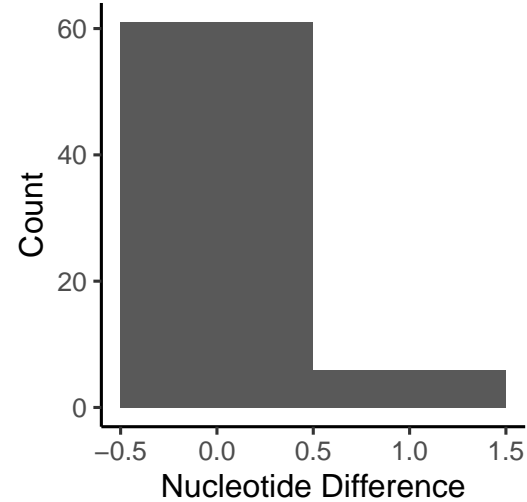
IGHV3-52*01

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



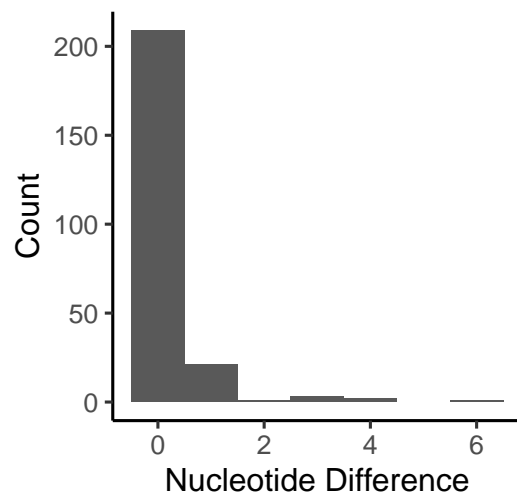
IGHV3-64*01

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



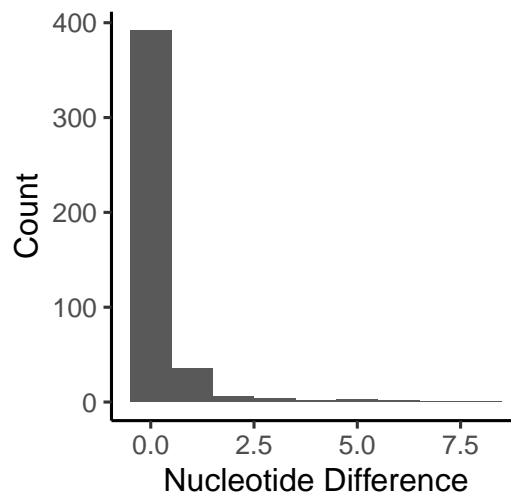
IGHV3-49*04

237 sequences assigned
209 (88.2%) exact matches, in which:
199 unique CDR3
6 unique J



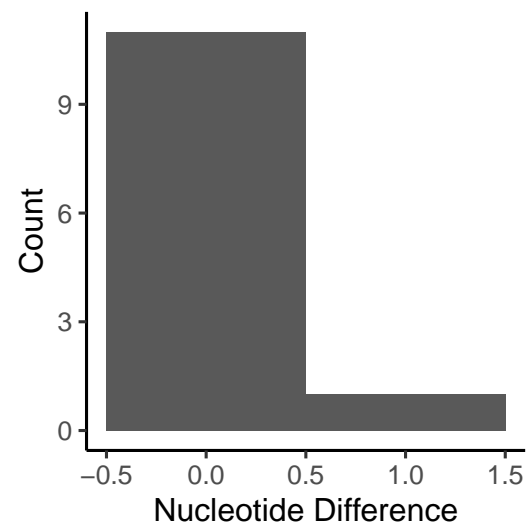
IGHV3-53*01

446 sequences assigned
392 (87.9%) exact matches, in which:
374 unique CDR3
7 unique J



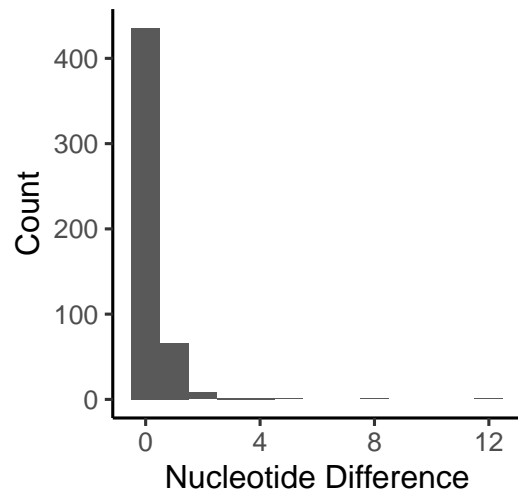
IGHV3-64*02

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



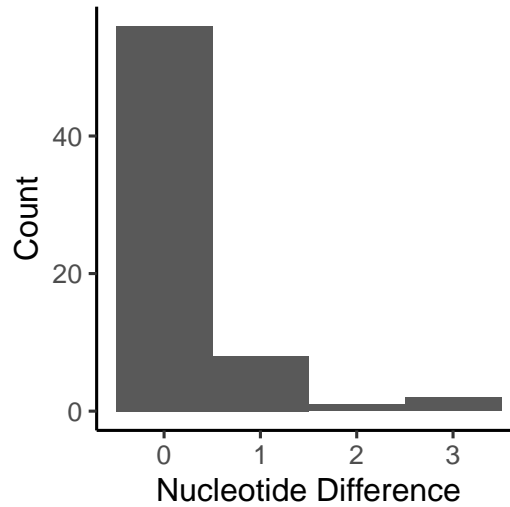
IGHV3–66*01

517 sequences assigned
436 (84.3%) exact matches, in which:
395 unique CDR3
6 unique J



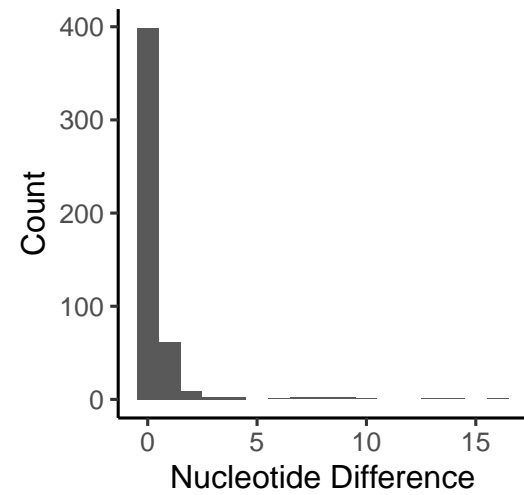
IGHV3–72*01

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



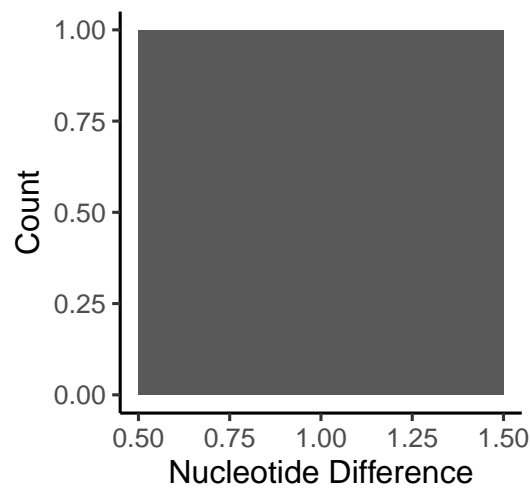
IGHV3–74*01

489 sequences assigned
399 (81.6%) exact matches, in which:
376 unique CDR3
7 unique J



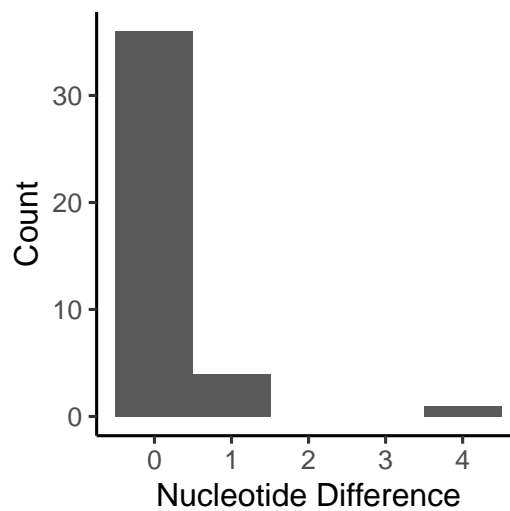
IGHV3–69–1*01

1 sequences assigned
No exact matches.



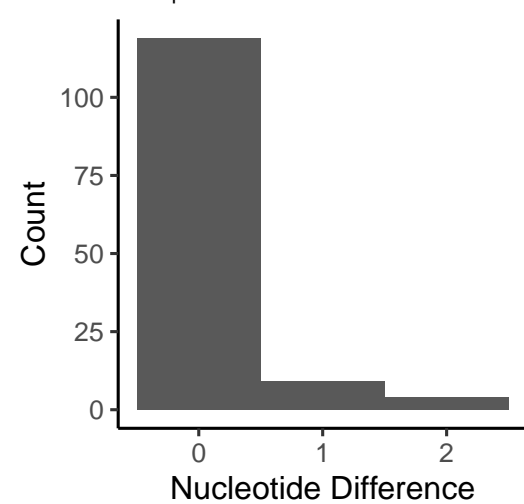
IGHV3–73*01

41 sequences assigned
36 (87.8%) exact matches, in which:
33 unique CDR3
4 unique J



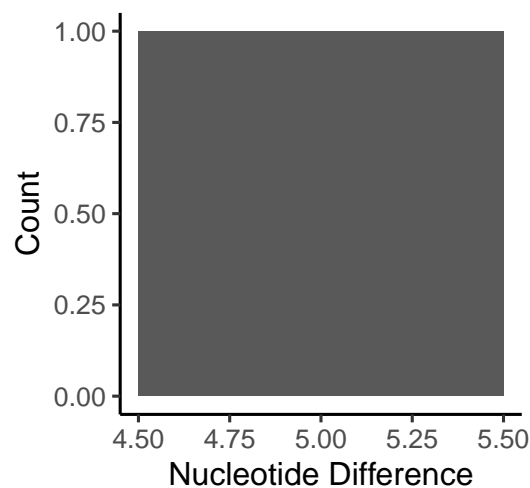
IGHV3–43D*03

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



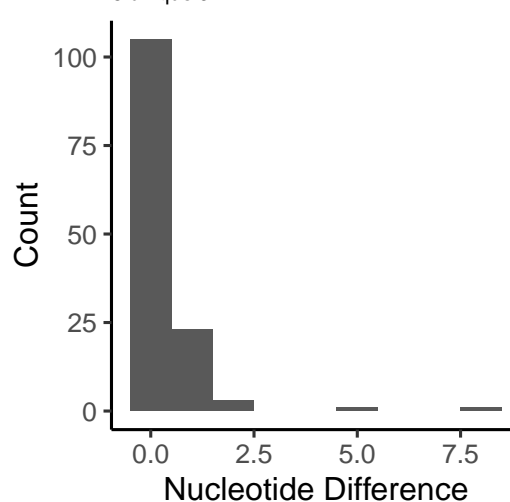
IGHV3–71*02

1 sequences assigned
No exact matches.



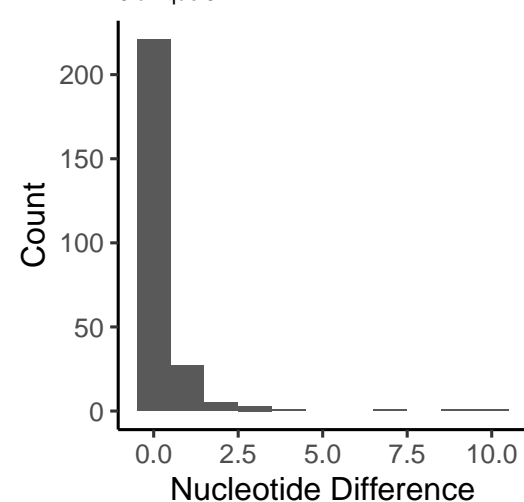
IGHV3–73*02

133 sequences assigned
105 (78.9%) exact matches, in which:
100 unique CDR3
6 unique J



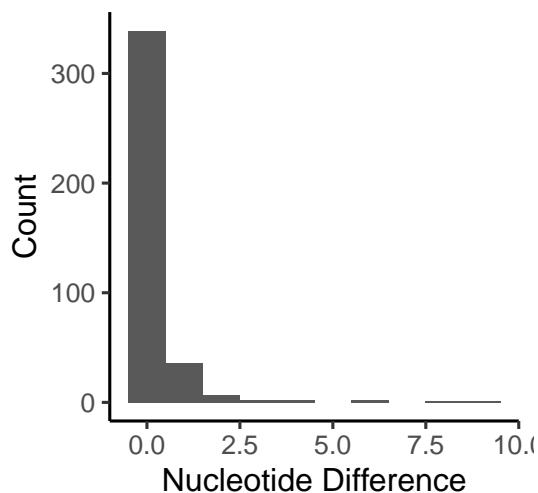
IGHV3–64D*09

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



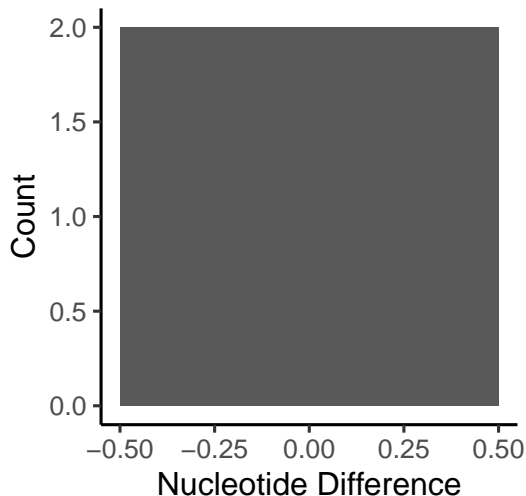
IGHV4-4*02

391 sequences assigned
339 (86.7%) exact matches, in which:
331 unique CDR3
6 unique J



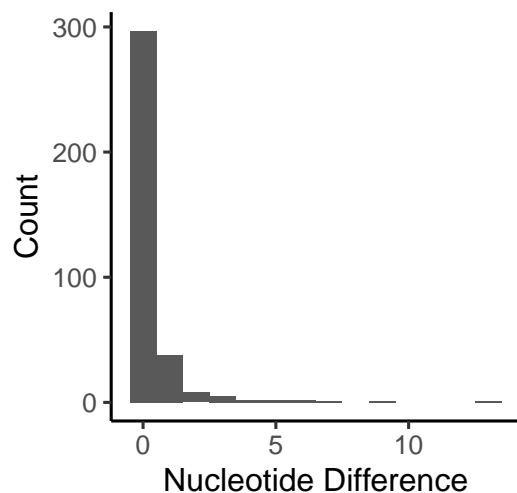
IGHV4-28*03

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



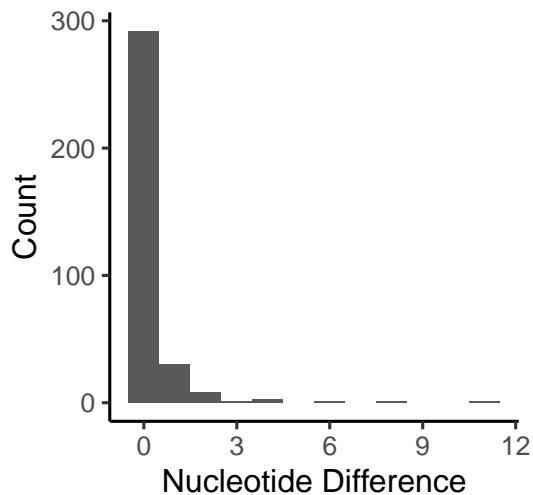
IGHV4-30-4*01

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



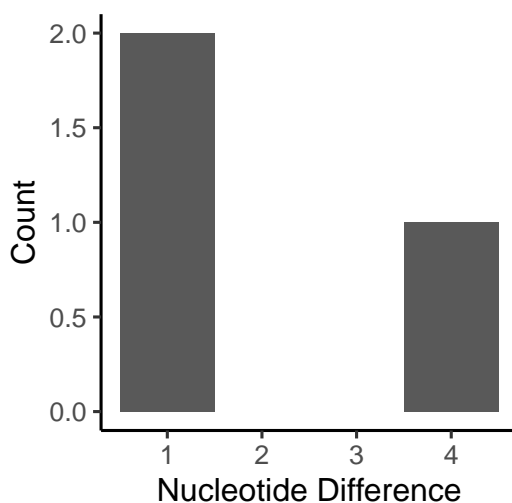
IGHV4-4*07

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



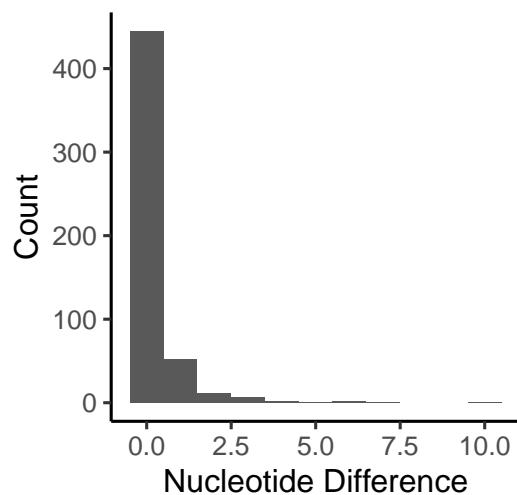
IGHV4-28*04

3 sequences assigned
No exact matches.



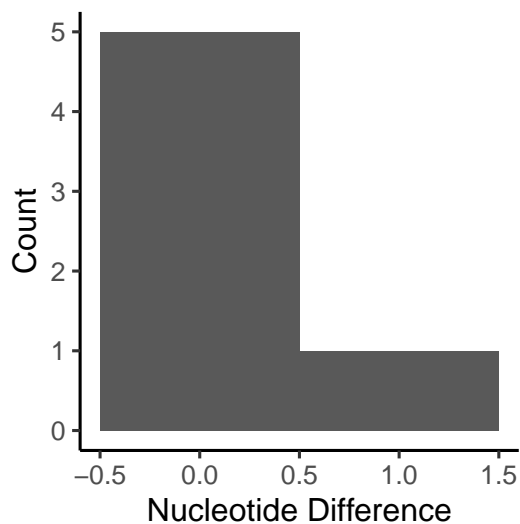
IGHV4-31*03

522 sequences assigned
445 (85.2%) exact matches, in which:
422 unique CDR3
6 unique J



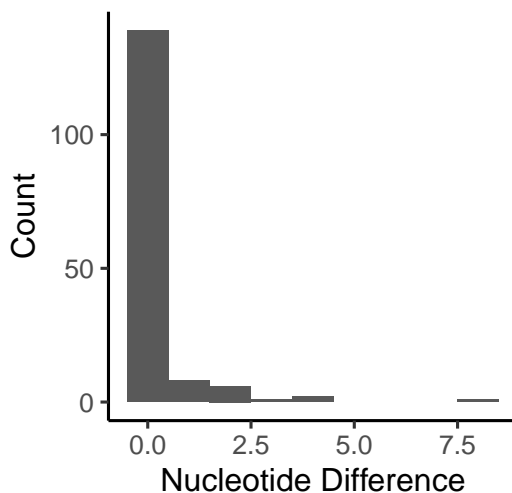
IGHV4-28*01

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



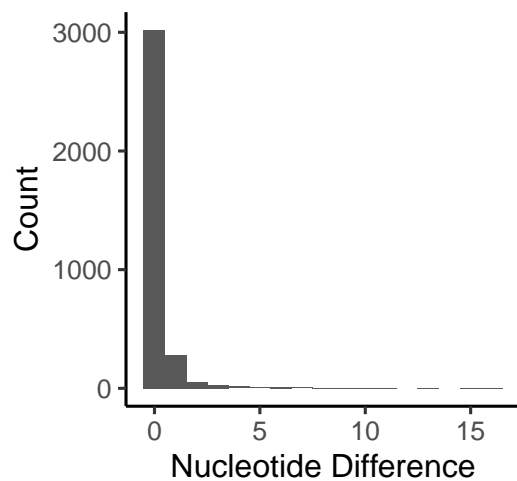
IGHV4-30-2*01

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



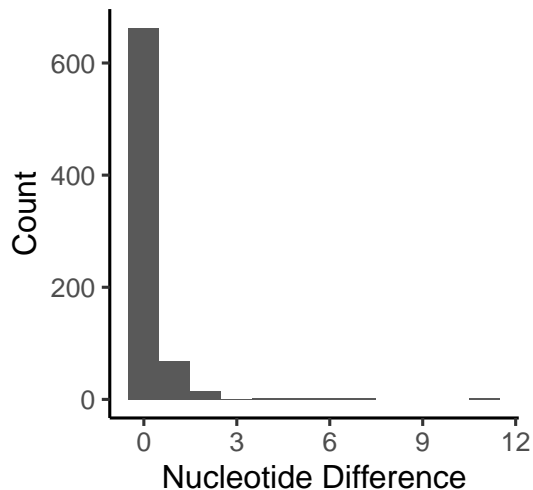
IGHV4-34*01

3436 sequences assigned
3019 (87.9%) exact matches, in which:
2817 unique CDR3
7 unique J



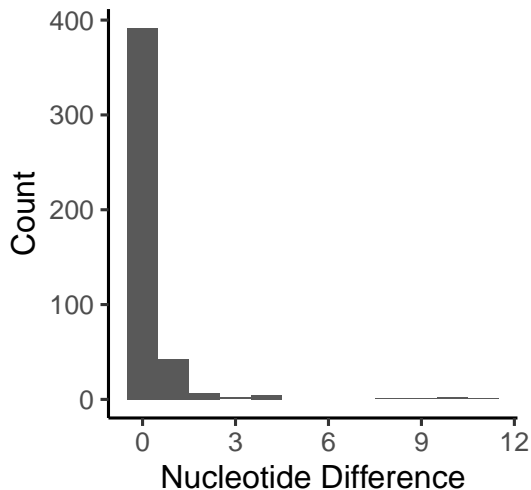
IGHV4–38–2*02

760 sequences assigned
663 (87.2%) exact matches, in which:
612 unique CDR3
6 unique J



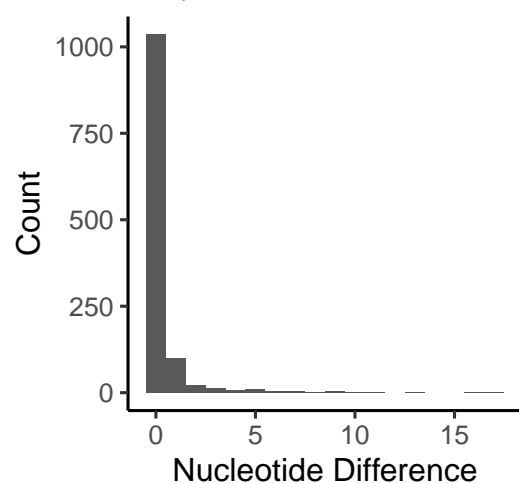
IGHV4–59*08

455 sequences assigned
392 (86.2%) exact matches, in which:
380 unique CDR3
6 unique J



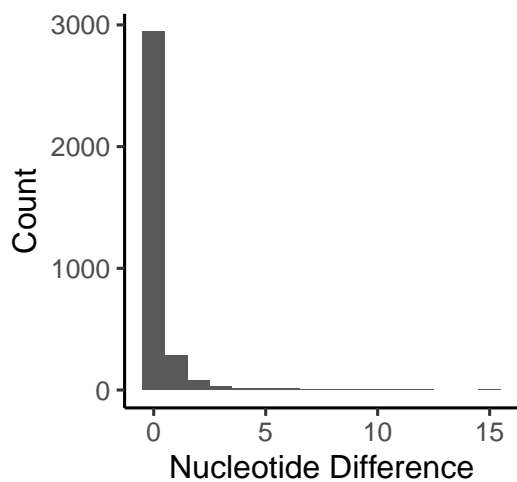
IGHV5–51*01

1208 sequences assigned
1036 (85.8%) exact matches, in which:
991 unique CDR3
7 unique J



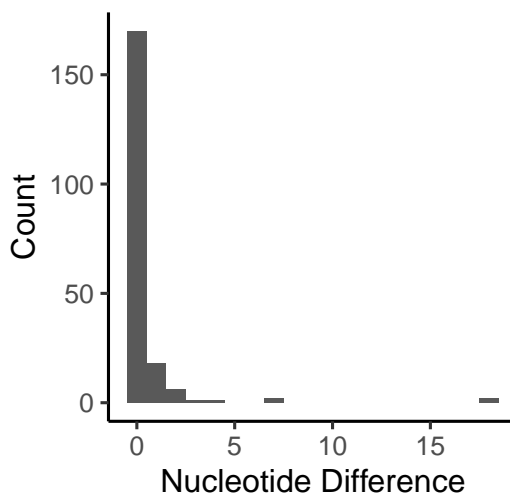
IGHV4–39*01

3408 sequences assigned
2944 (86.4%) exact matches, in which:
2751 unique CDR3
7 unique J



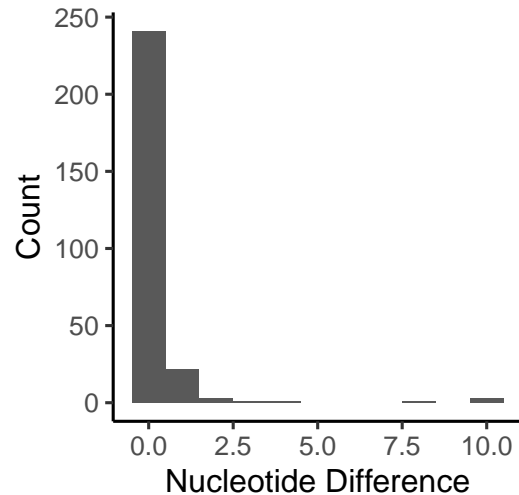
IGHV4–61*01

200 sequences assigned
170 (85%) exact matches, in which:
166 unique CDR3
6 unique J



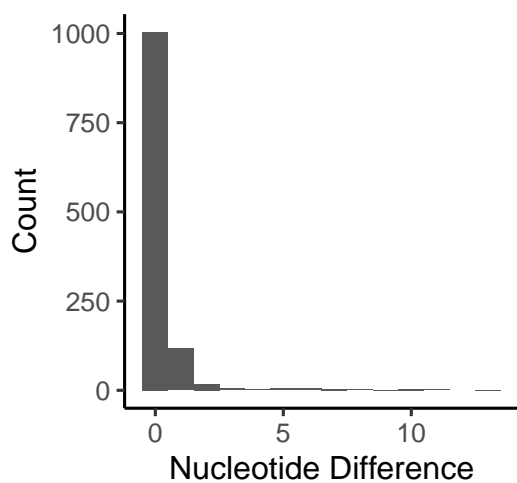
IGHV6–1*01

272 sequences assigned
241 (88.6%) exact matches, in which:
231 unique CDR3
6 unique J



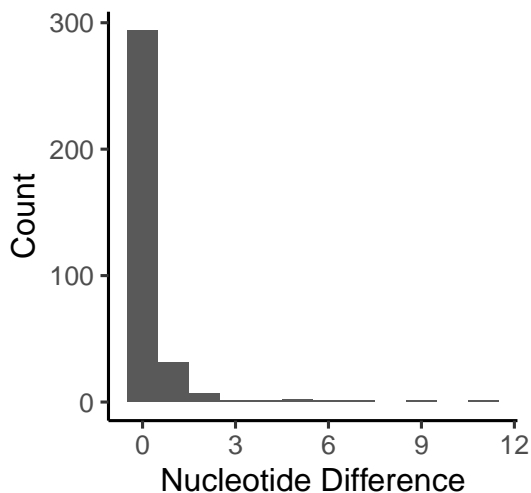
IGHV4–59*01

1170 sequences assigned
1004 (85.8%) exact matches, in which:
966 unique CDR3
7 unique J



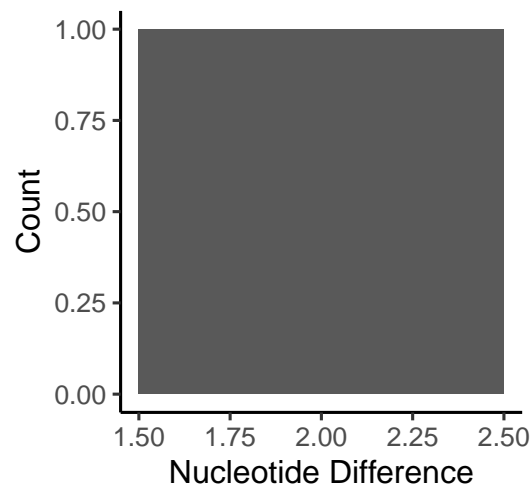
IGHV5–10–1*03

340 sequences assigned
294 (86.5%) exact matches, in which:
282 unique CDR3
6 unique J



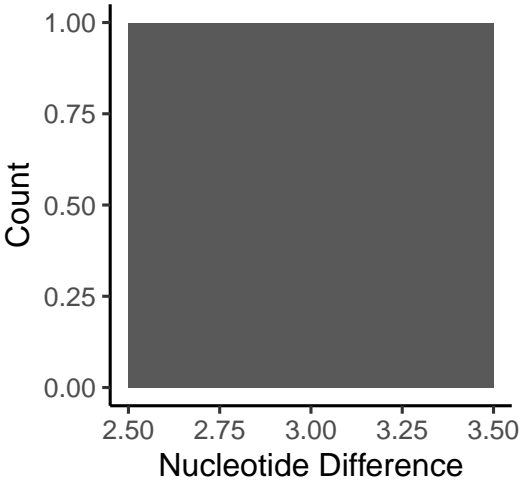
IGHV3/OR16–6*02

1 sequences assigned
No exact matches.



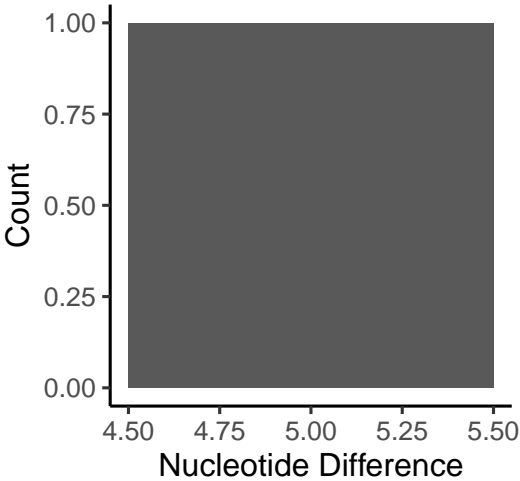
IGHV3/OR16-9*01

1 sequences assigned
No exact matches.



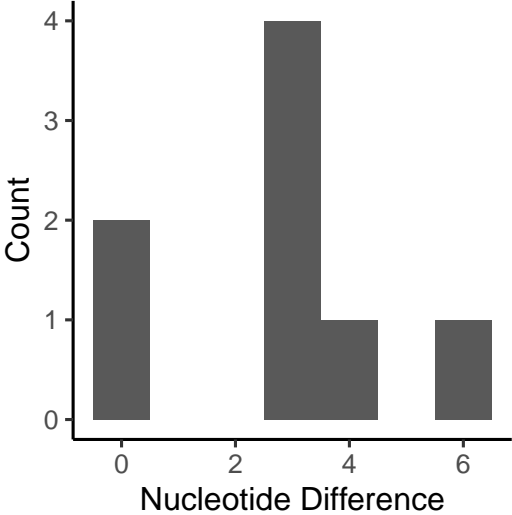
IGHV3/OR16-15*02

1 sequences assigned
No exact matches.

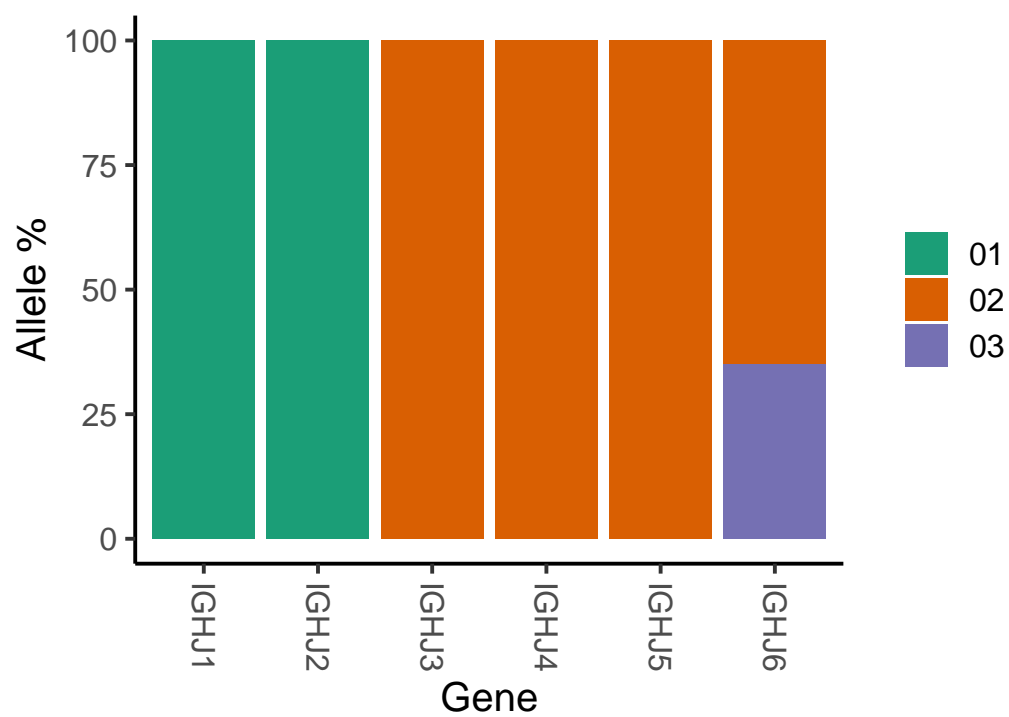


IGHV7-4-1*01

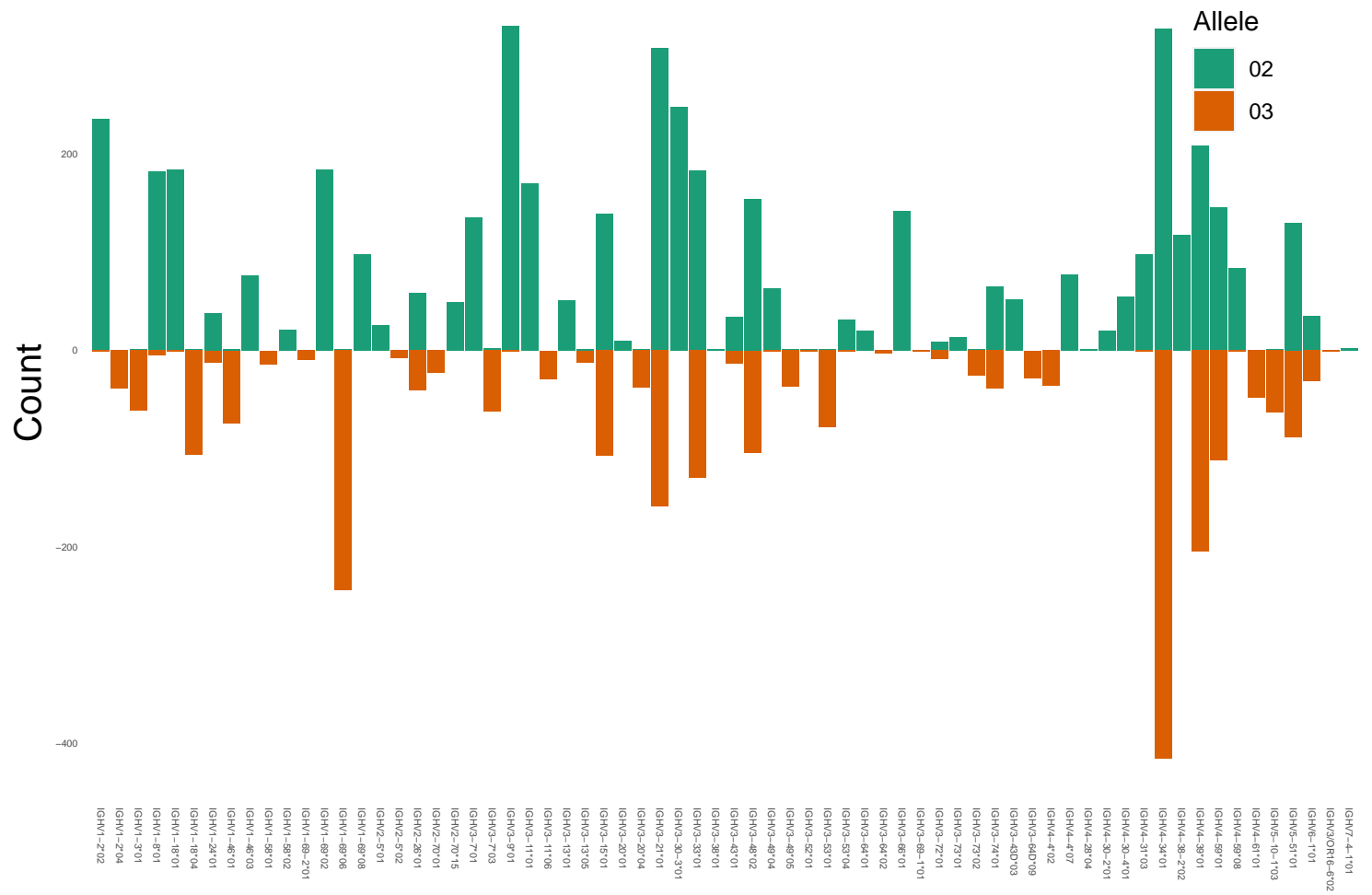
8 sequences assigned
2 (25%) exact matches, in which:
2 unique CDR3
1 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.