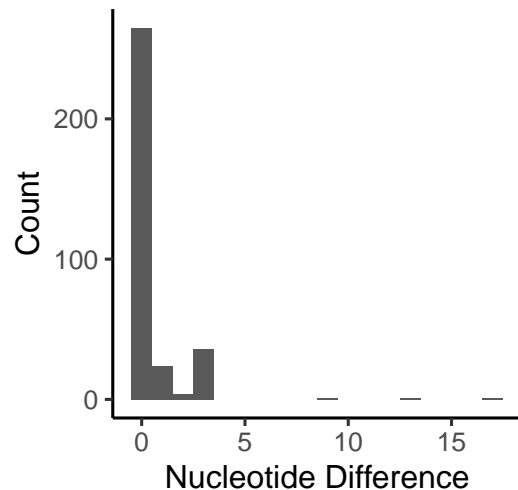


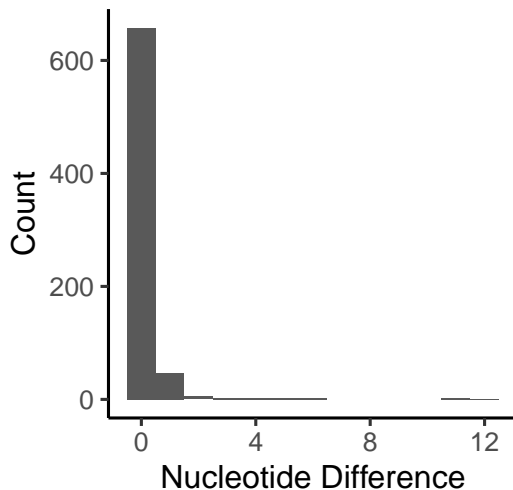
IGHV1-2*04

332 sequences assigned
265 (79.8%) exact matches, in which:
255 unique CDR3
7 unique J



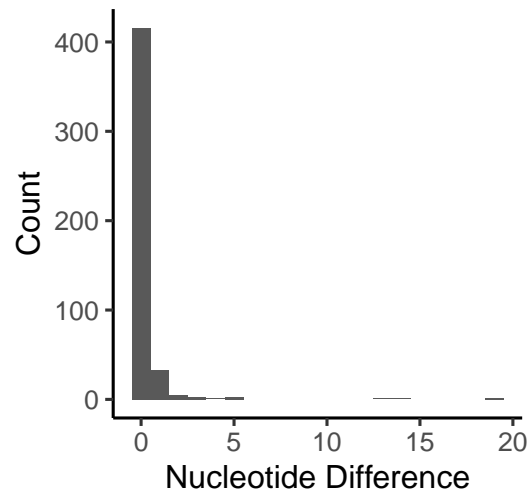
IGHV1-18*04

725 sequences assigned
658 (90.8%) exact matches, in which:
644 unique CDR3
6 unique J



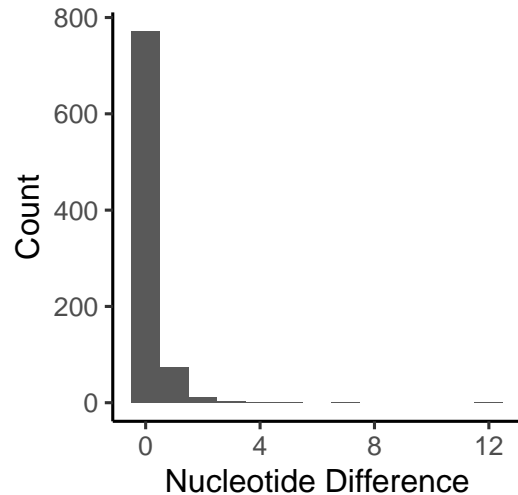
IGHV1-46*01

465 sequences assigned
416 (89.5%) exact matches, in which:
392 unique CDR3
7 unique J



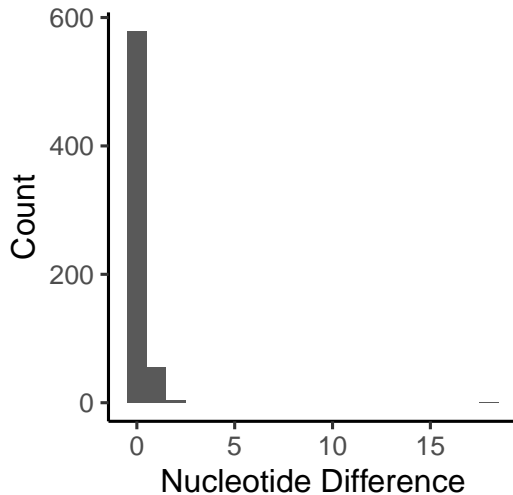
IGHV1-3*01

868 sequences assigned
772 (88.9%) exact matches, in which:
745 unique CDR3
7 unique J



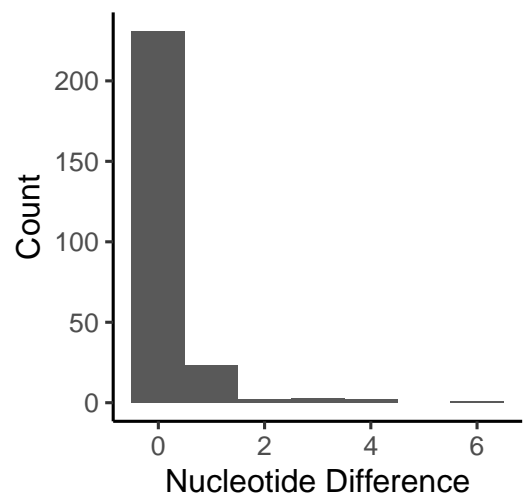
IGHV1-24*01

639 sequences assigned
579 (90.6%) exact matches, in which:
556 unique CDR3
7 unique J



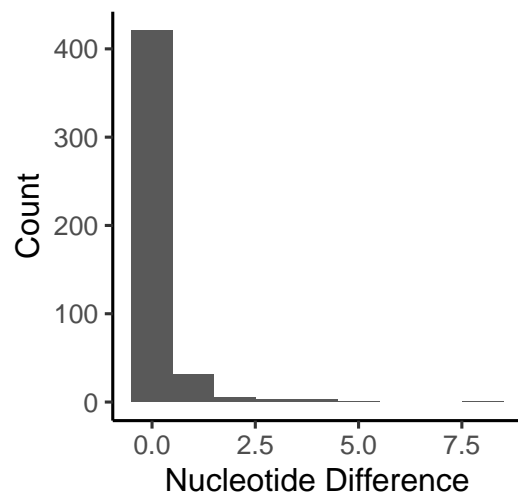
IGHV1-46*03

262 sequences assigned
231 (88.2%) exact matches, in which:
225 unique CDR3
6 unique J



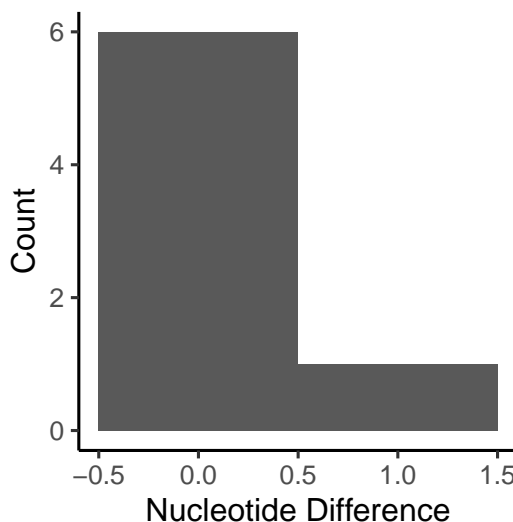
IGHV1-18*01

465 sequences assigned
421 (90.5%) exact matches, in which:
415 unique CDR3
7 unique J



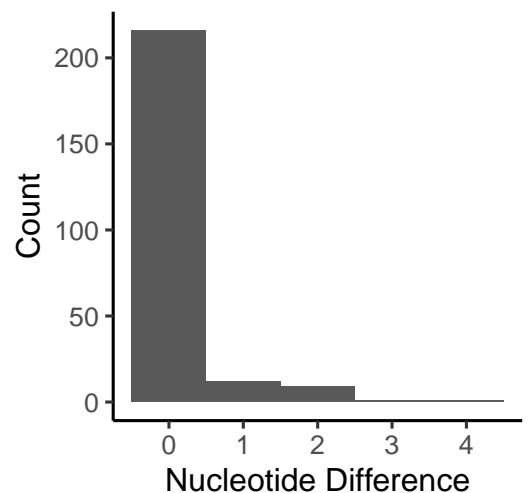
IGHV1-45*02

7 sequences assigned
6 (85.7%) exact matches, in which:
6 unique CDR3
2 unique J



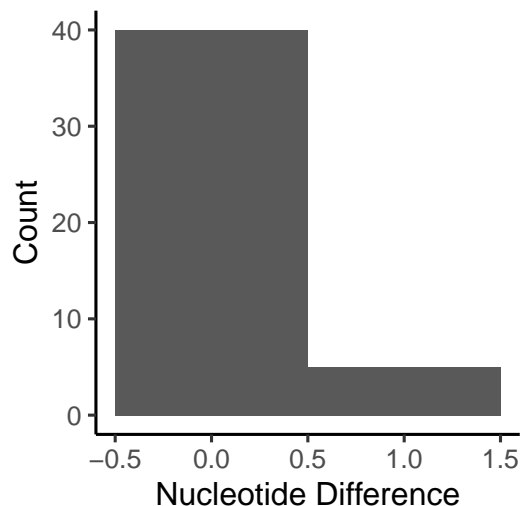
IGHV1-58*01

239 sequences assigned
216 (90.4%) exact matches, in which:
209 unique CDR3
7 unique J



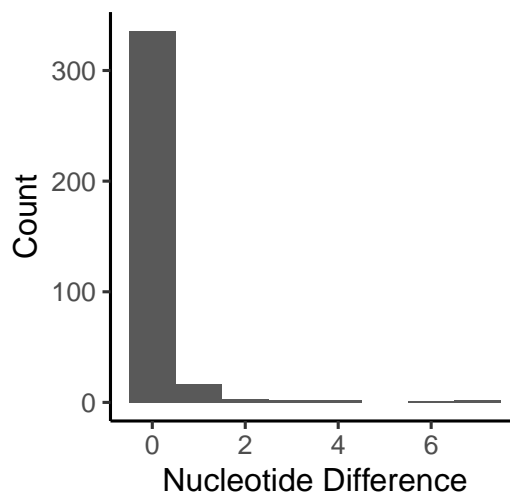
IGHV1-69-2*01

45 sequences assigned
40 (88.9%) exact matches, in which:
39 unique CDR3
6 unique J



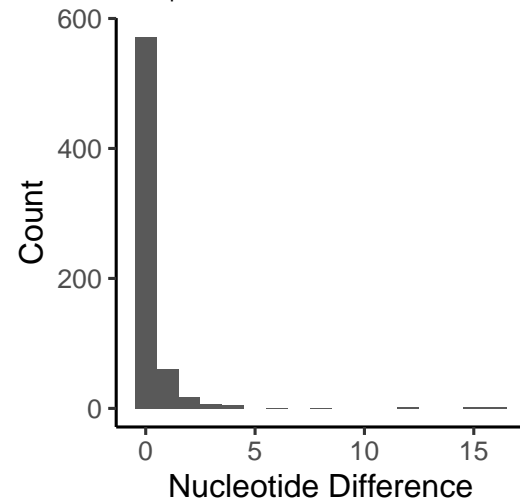
IGHV2-5*02

363 sequences assigned
336 (92.6%) exact matches, in which:
324 unique CDR3
6 unique J



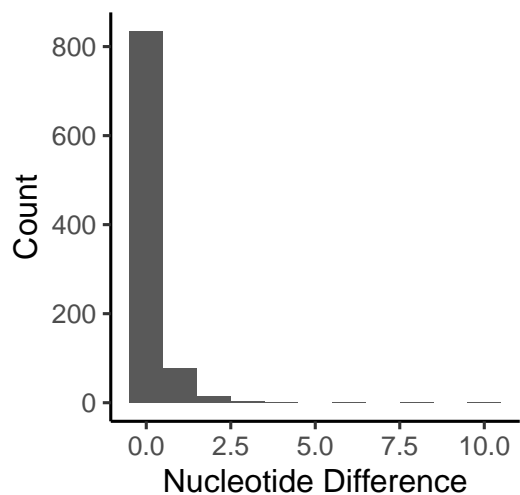
IGHV3-7*03

674 sequences assigned
572 (84.9%) exact matches, in which:
537 unique CDR3
7 unique J



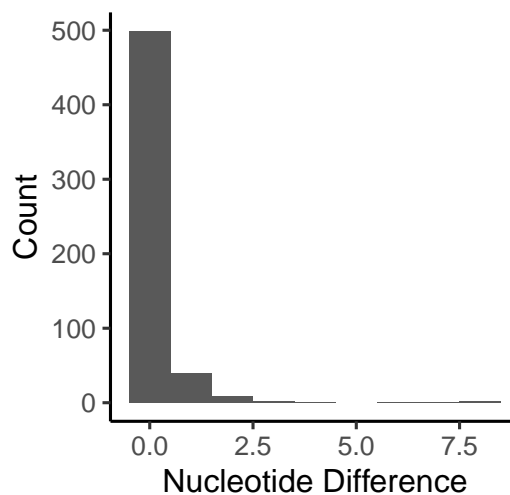
IGHV1-69*06

938 sequences assigned
835 (89%) exact matches, in which:
802 unique CDR3
7 unique J



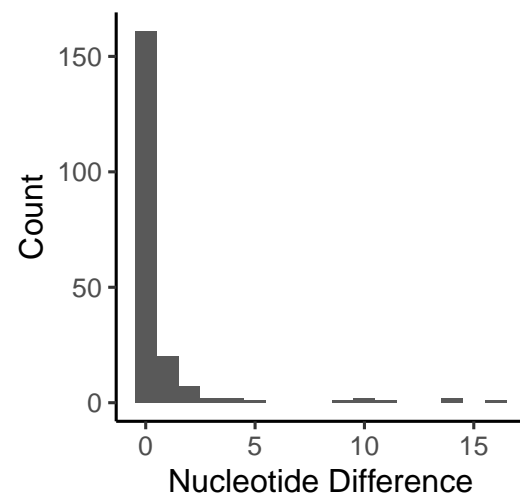
IGHV2-26*01

555 sequences assigned
499 (89.9%) exact matches, in which:
495 unique CDR3
7 unique J



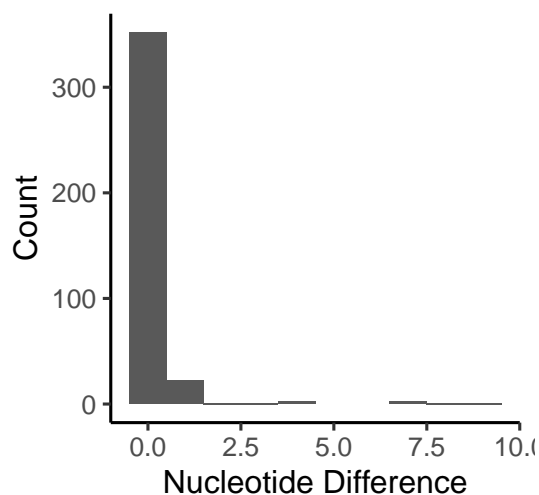
IGHV3-7*05

201 sequences assigned
161 (80.1%) exact matches, in which:
158 unique CDR3
6 unique J



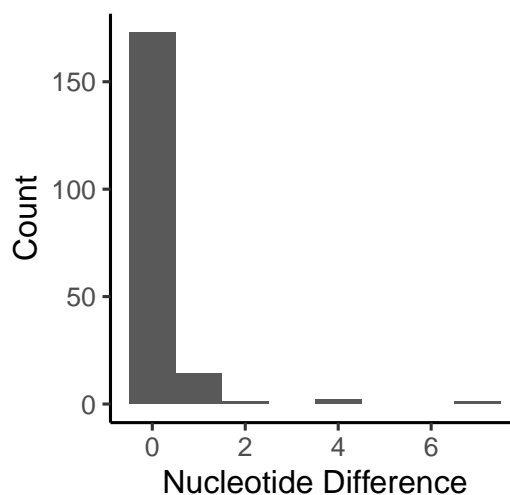
IGHV2-5*01

382 sequences assigned
352 (92.1%) exact matches, in which:
340 unique CDR3
6 unique J



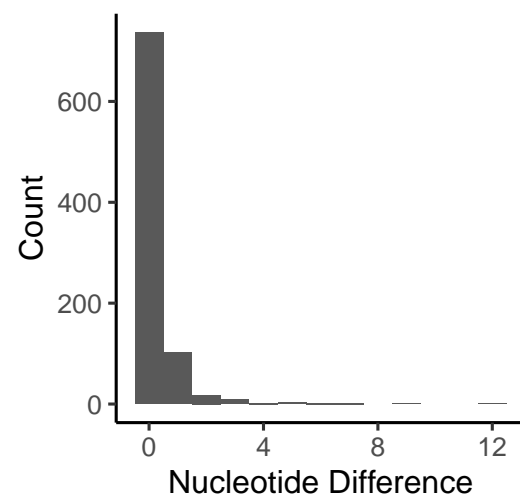
IGHV2-70*01

191 sequences assigned
173 (90.6%) exact matches, in which:
170 unique CDR3
6 unique J



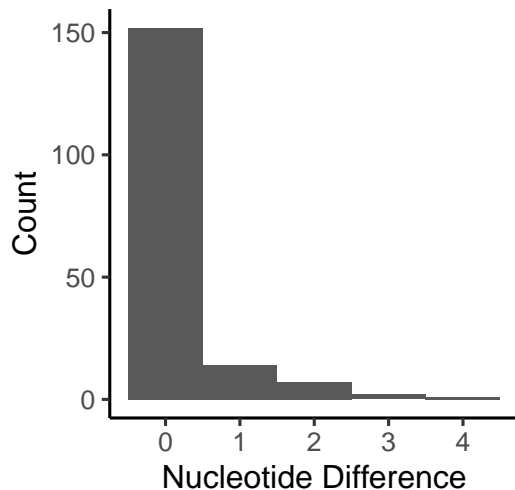
IGHV3-11*06

878 sequences assigned
737 (83.9%) exact matches, in which:
701 unique CDR3
7 unique J



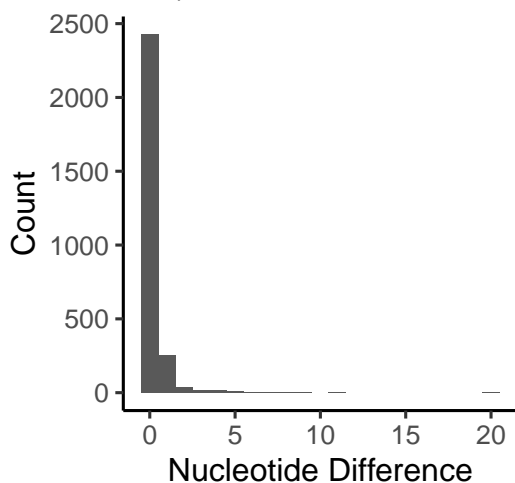
IGHV3-13*05

176 sequences assigned
152 (86.4%) exact matches, in which:
142 unique CDR3
6 unique J



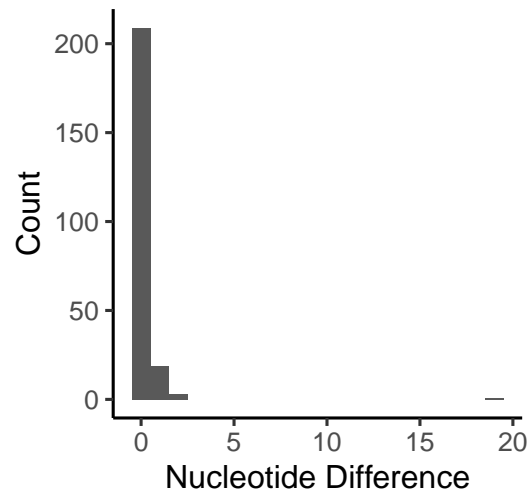
IGHV3-21*01

2771 sequences assigned
2427 (87.6%) exact matches, in which:
2287 unique CDR3
7 unique J



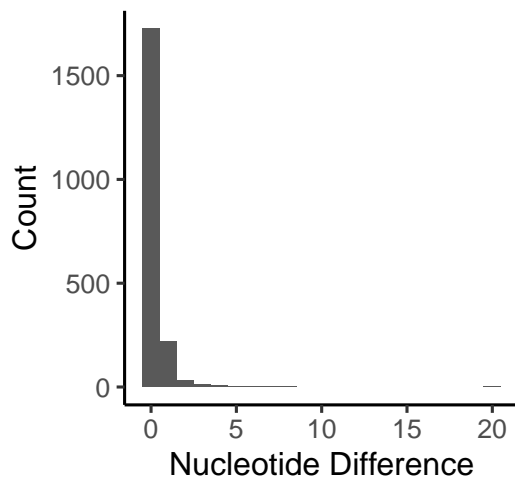
IGHV3-43*01

232 sequences assigned
209 (90.1%) exact matches, in which:
195 unique CDR3
7 unique J



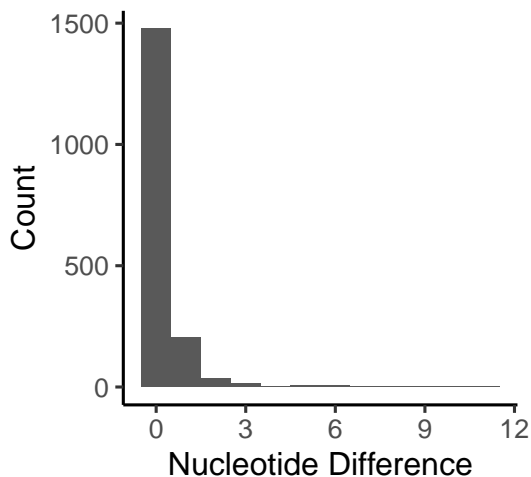
IGHV3-15*01

2006 sequences assigned
1726 (86%) exact matches, in which:
1646 unique CDR3
7 unique J



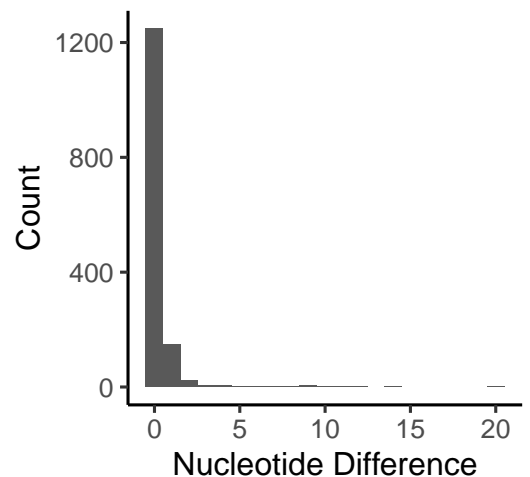
IGHV3-33*01

1751 sequences assigned
1477 (84.4%) exact matches, in which:
1414 unique CDR3
7 unique J



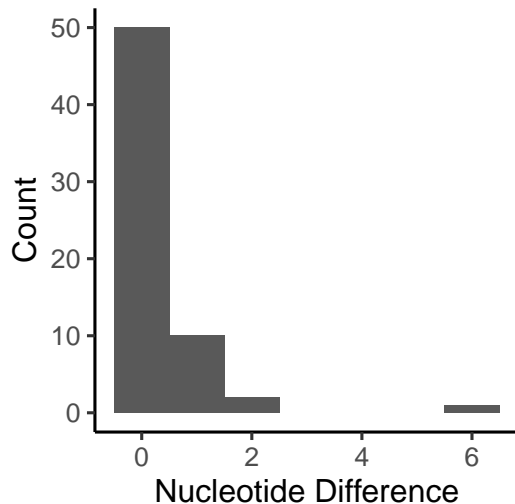
IGHV3-48*02

1473 sequences assigned
1248 (84.7%) exact matches, in which:
1176 unique CDR3
7 unique J



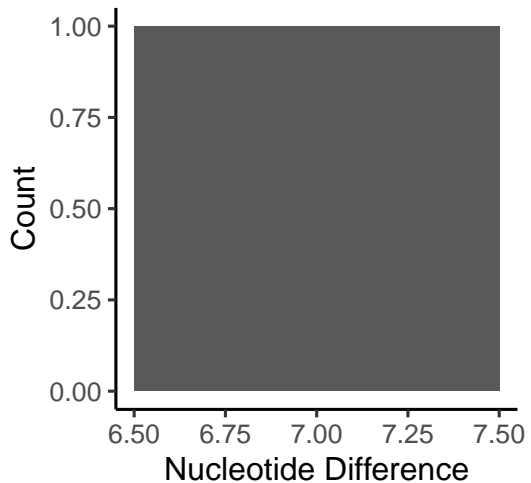
IGHV3-20*01

63 sequences assigned
50 (79.4%) exact matches, in which:
48 unique CDR3
6 unique J



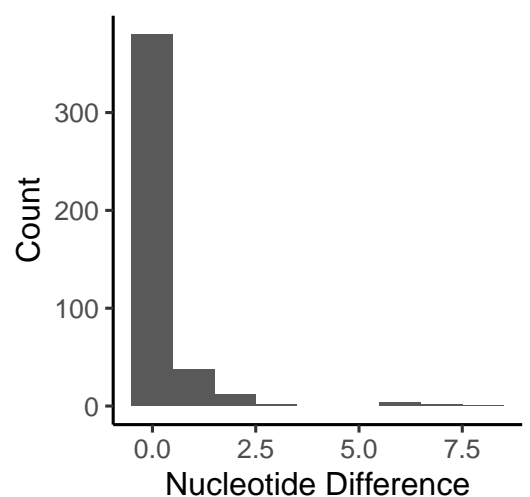
IGHV3-41*02

1 sequences assigned
No exact matches.



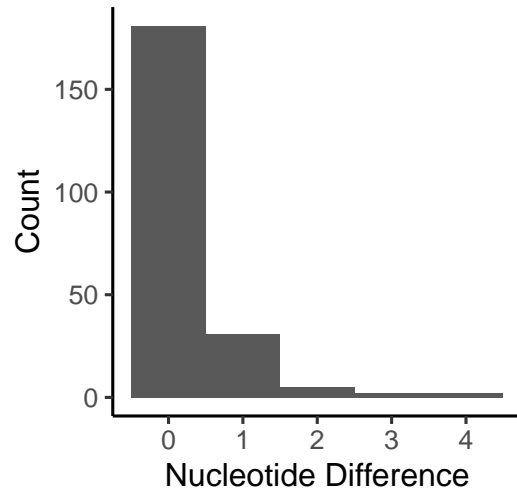
IGHV3-49*04

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



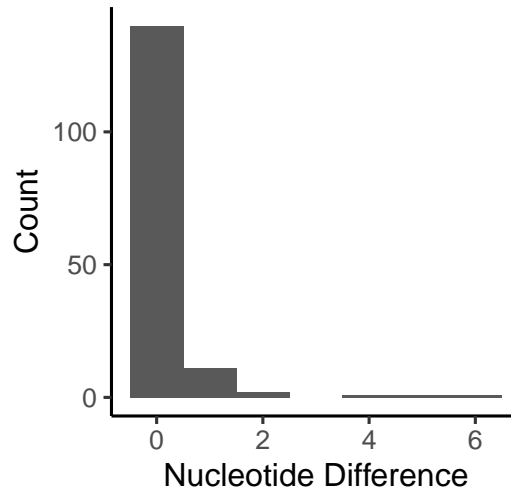
IGHV3-49*05

221 sequences assigned
181 (81.9%) exact matches, in which:
179 unique CDR3
6 unique J



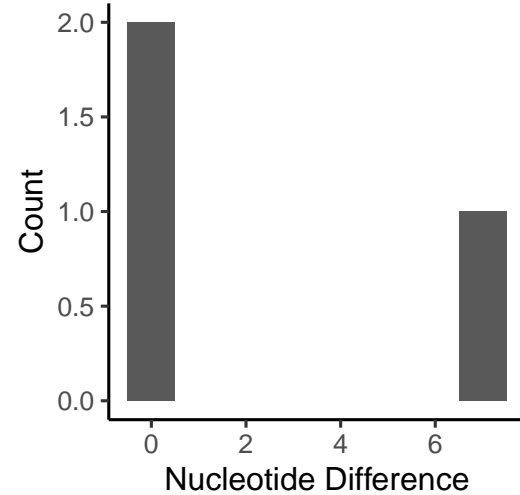
IGHV3-53*02

156 sequences assigned
140 (89.7%) exact matches, in which:
137 unique CDR3
7 unique J



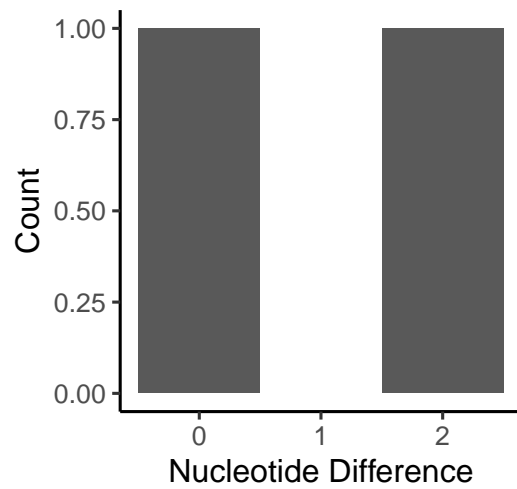
IGHV3-69-1*01

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



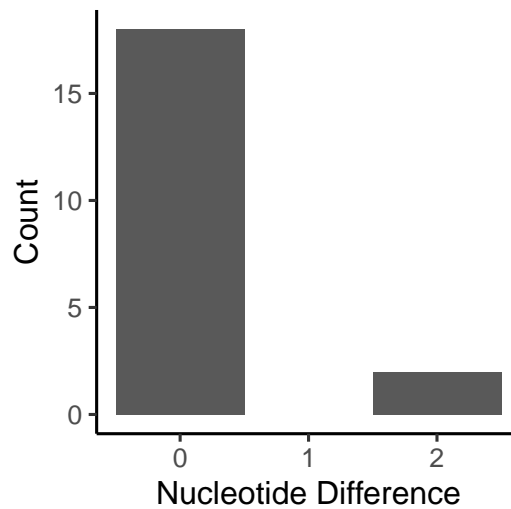
IGHV3-52*01

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



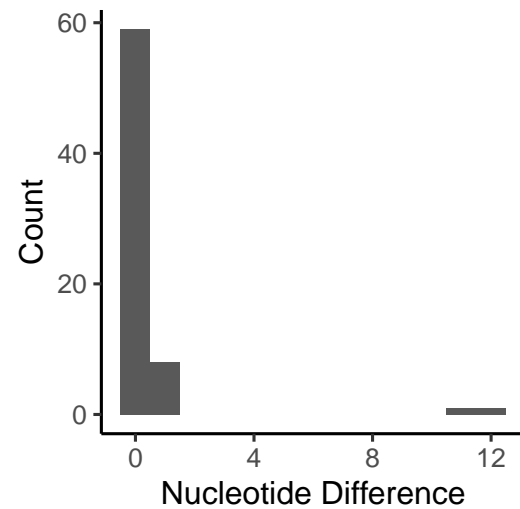
IGHV3-64*02

21 sequences assigned
18 (85.7%) exact matches, in which:
17 unique CDR3
6 unique J



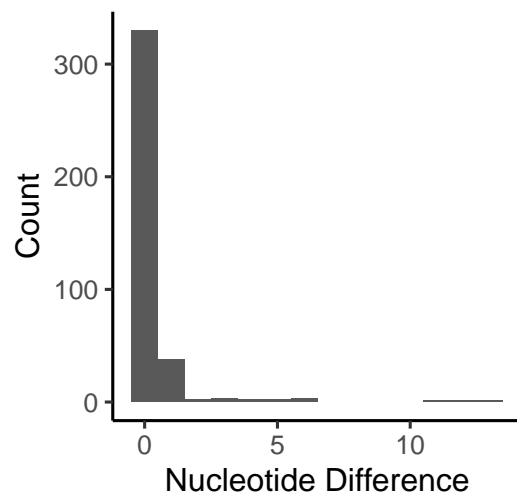
IGHV3-72*01

69 sequences assigned
59 (85.5%) exact matches, in which:
55 unique CDR3
7 unique J



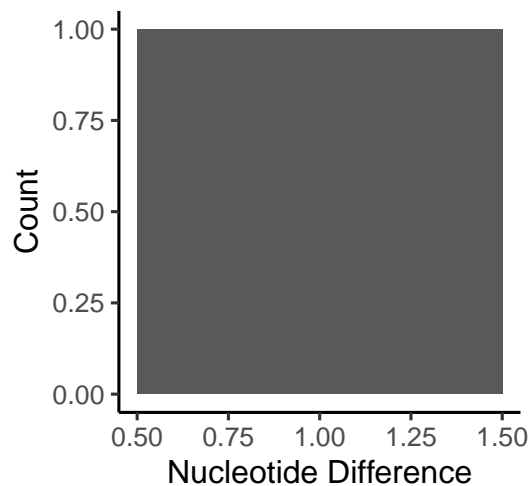
IGHV3-53*01

384 sequences assigned
330 (85.9%) exact matches, in which:
315 unique CDR3
6 unique J



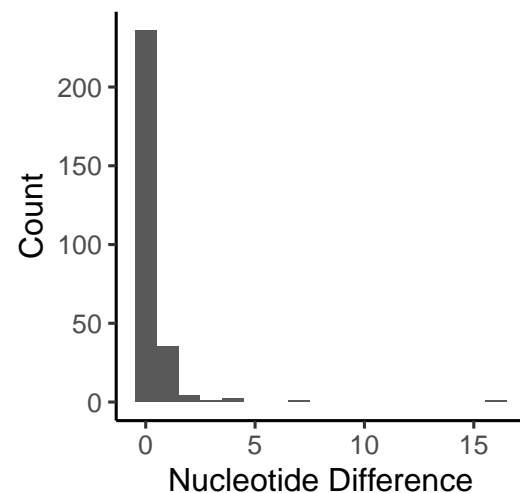
IGHV3-66*04

1 sequences assigned
No exact matches.



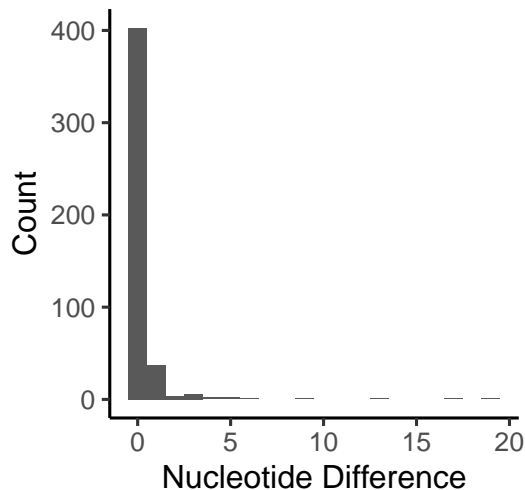
IGHV3-73*02

280 sequences assigned
236 (84.3%) exact matches, in which:
220 unique CDR3
7 unique J



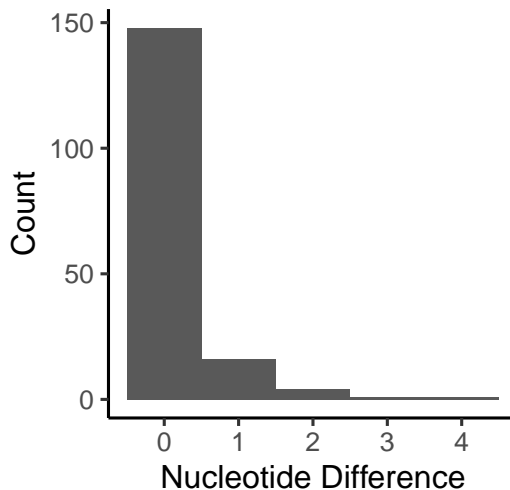
IGHV3-74*01

462 sequences assigned
403 (87.2%) exact matches, in which:
378 unique CDR3
7 unique J



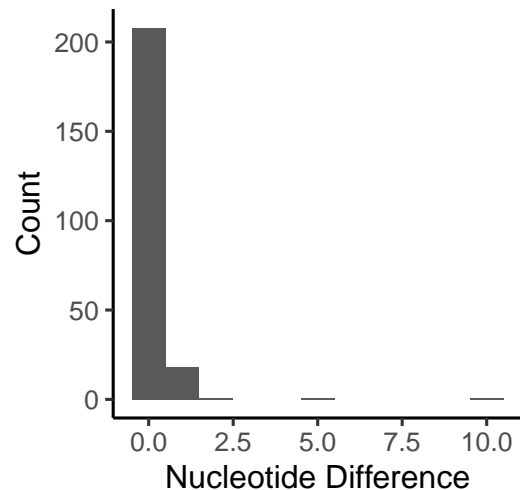
IGHV3-64D*08

170 sequences assigned
148 (87.1%) exact matches, in which:
144 unique CDR3
7 unique J



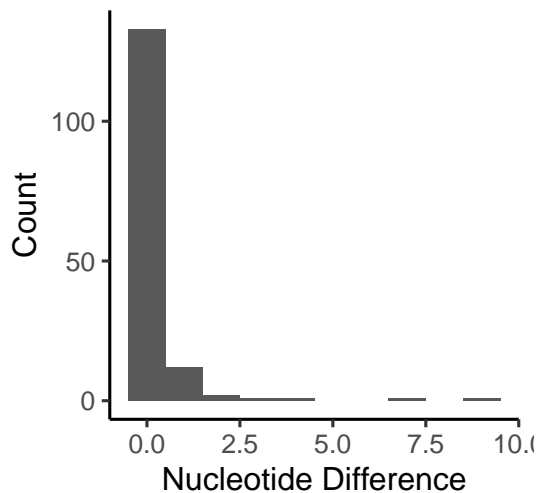
IGHV4-30-2*01

229 sequences assigned
208 (90.8%) exact matches, in which:
206 unique CDR3
6 unique J



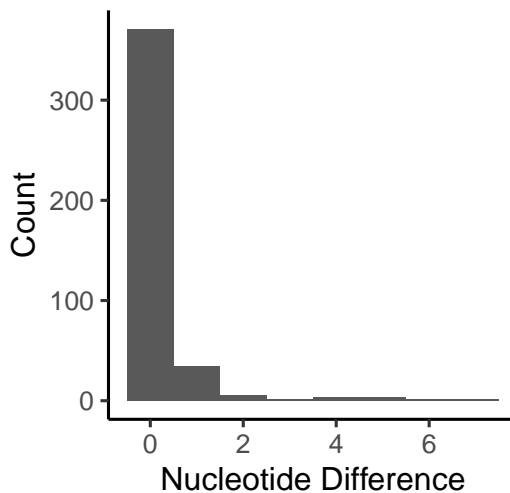
IGHV3-43D*03

151 sequences assigned
133 (88.1%) exact matches, in which:
130 unique CDR3
6 unique J



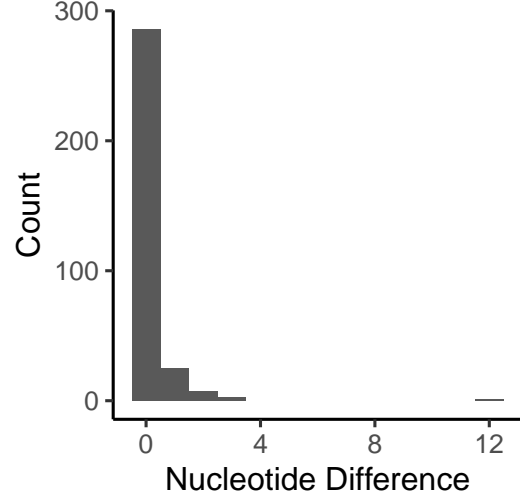
IGHV4-4*02

421 sequences assigned
371 (88.1%) exact matches, in which:
366 unique CDR3
6 unique J



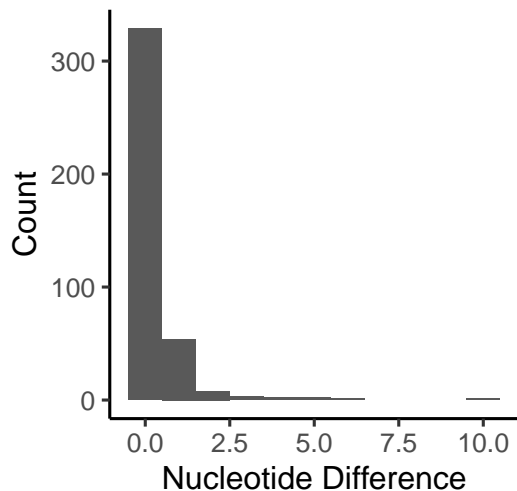
IGHV4-30-4*07

322 sequences assigned
286 (88.8%) exact matches, in which:
278 unique CDR3
6 unique J



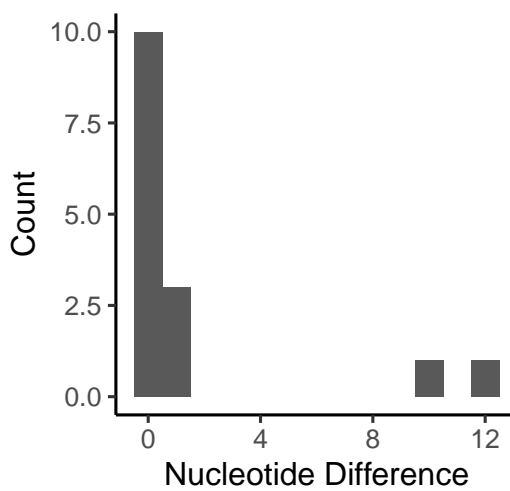
IGHV3-64D*06

400 sequences assigned
329 (82.2%) exact matches, in which:
316 unique CDR3
6 unique J



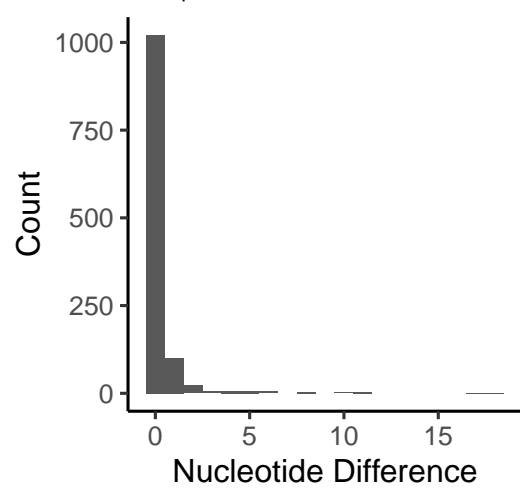
IGHV4-28*01

15 sequences assigned
10 (66.7%) exact matches, in which:
10 unique CDR3
4 unique J



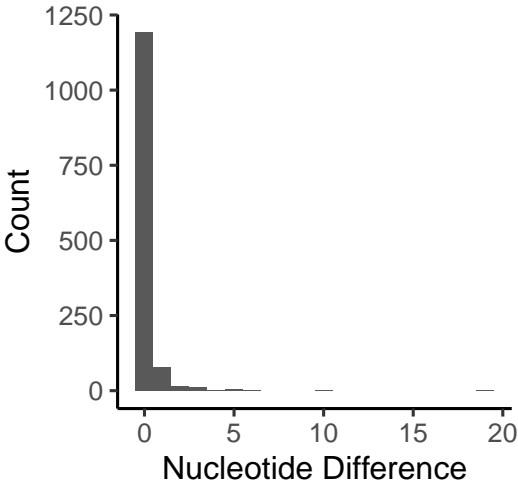
IGHV4-31*03

1175 sequences assigned
1021 (86.9%) exact matches, in which:
986 unique CDR3
6 unique J



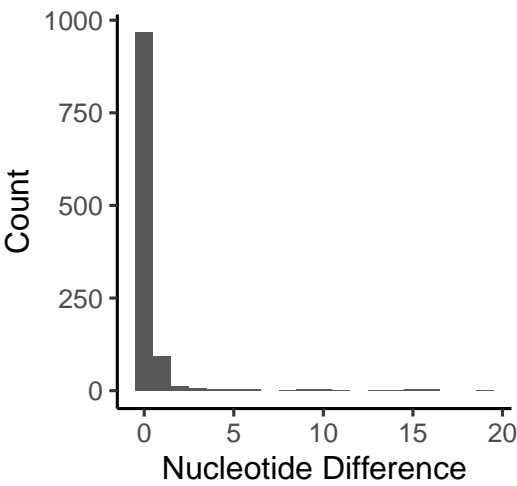
IGHV4-34*01

1312 sequences assigned
1192 (90.9%) exact matches, in which:
1133 unique CDR3
7 unique J



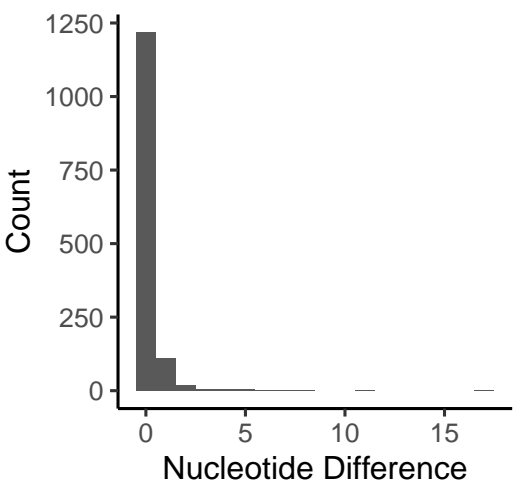
IGHV4-59*01

1110 sequences assigned
967 (87.1%) exact matches, in which:
947 unique CDR3
7 unique J



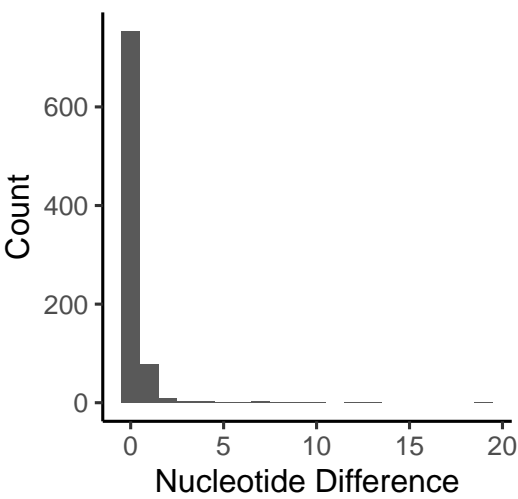
IGHV5-10-1*03

1372 sequences assigned
1218 (88.8%) exact matches, in which:
1178 unique CDR3
7 unique J



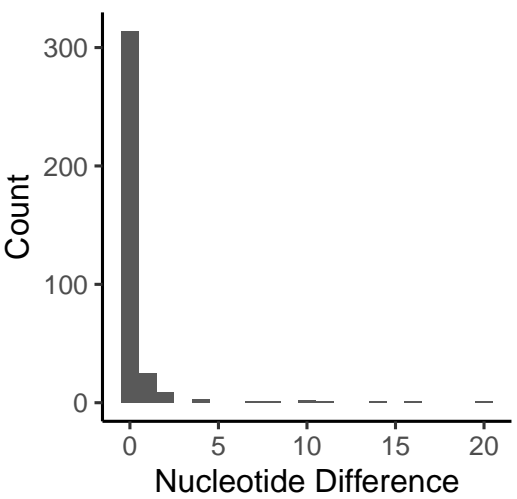
IGHV4-38-2*02

863 sequences assigned
754 (87.4%) exact matches, in which:
704 unique CDR3
7 unique J



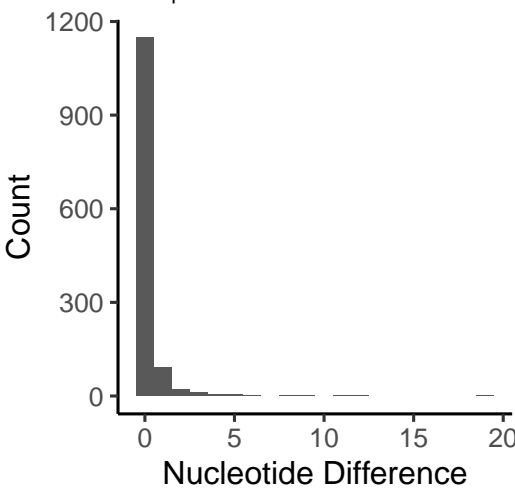
IGHV4-61*01

368 sequences assigned
314 (85.3%) exact matches, in which:
306 unique CDR3
7 unique J



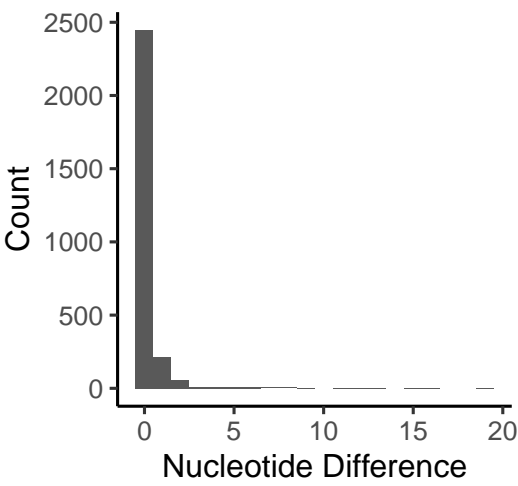
IGHV5-51*01

1289 sequences assigned
1148 (89.1%) exact matches, in which:
1103 unique CDR3
7 unique J



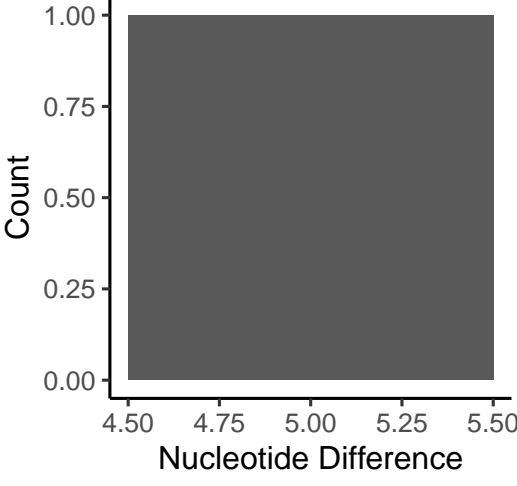
IGHV4-39*01

2779 sequences assigned
2447 (88.1%) exact matches, in which:
2309 unique CDR3
7 unique J



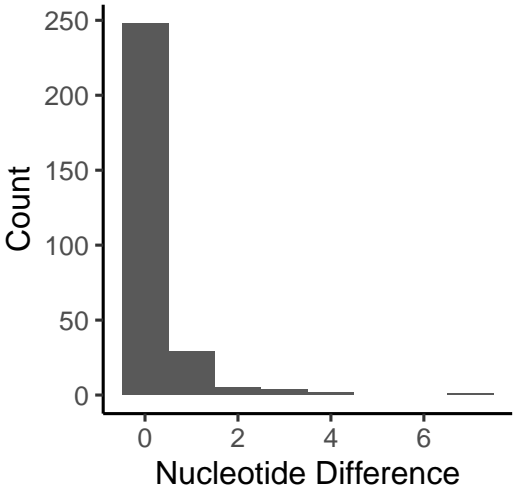
IGHV1/OR15-4*01

1 sequences assigned
No exact matches.



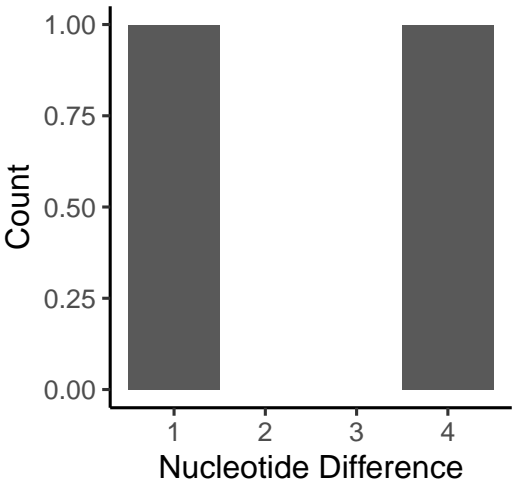
IGHV6-1*01

289 sequences assigned
248 (85.8%) exact matches, in which:
240 unique CDR3
6 unique J



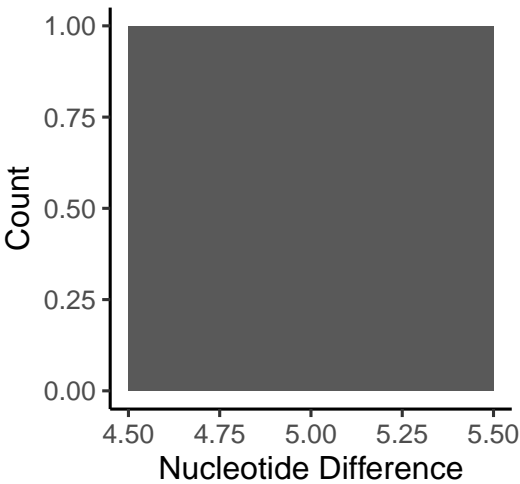
IGHV3/OR16-12*01

2 sequences assigned
No exact matches.



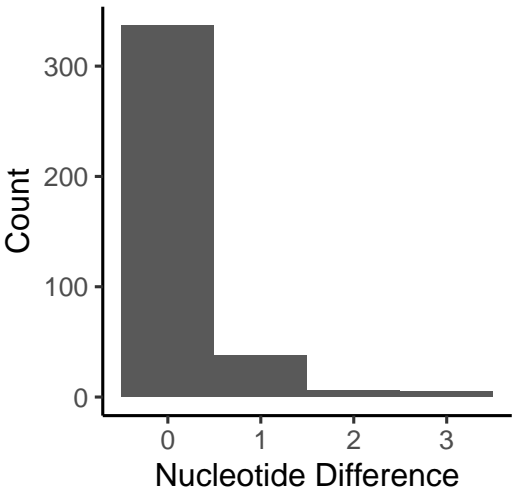
IGHV3/OR16-15*02

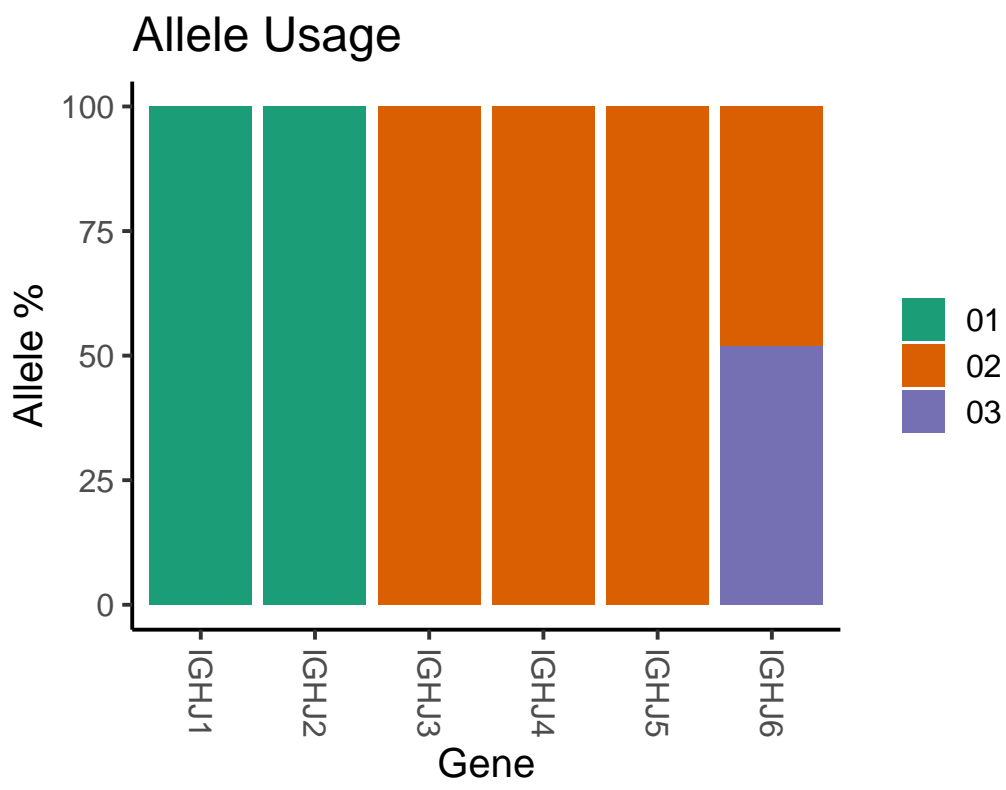
1 sequences assigned
No exact matches.



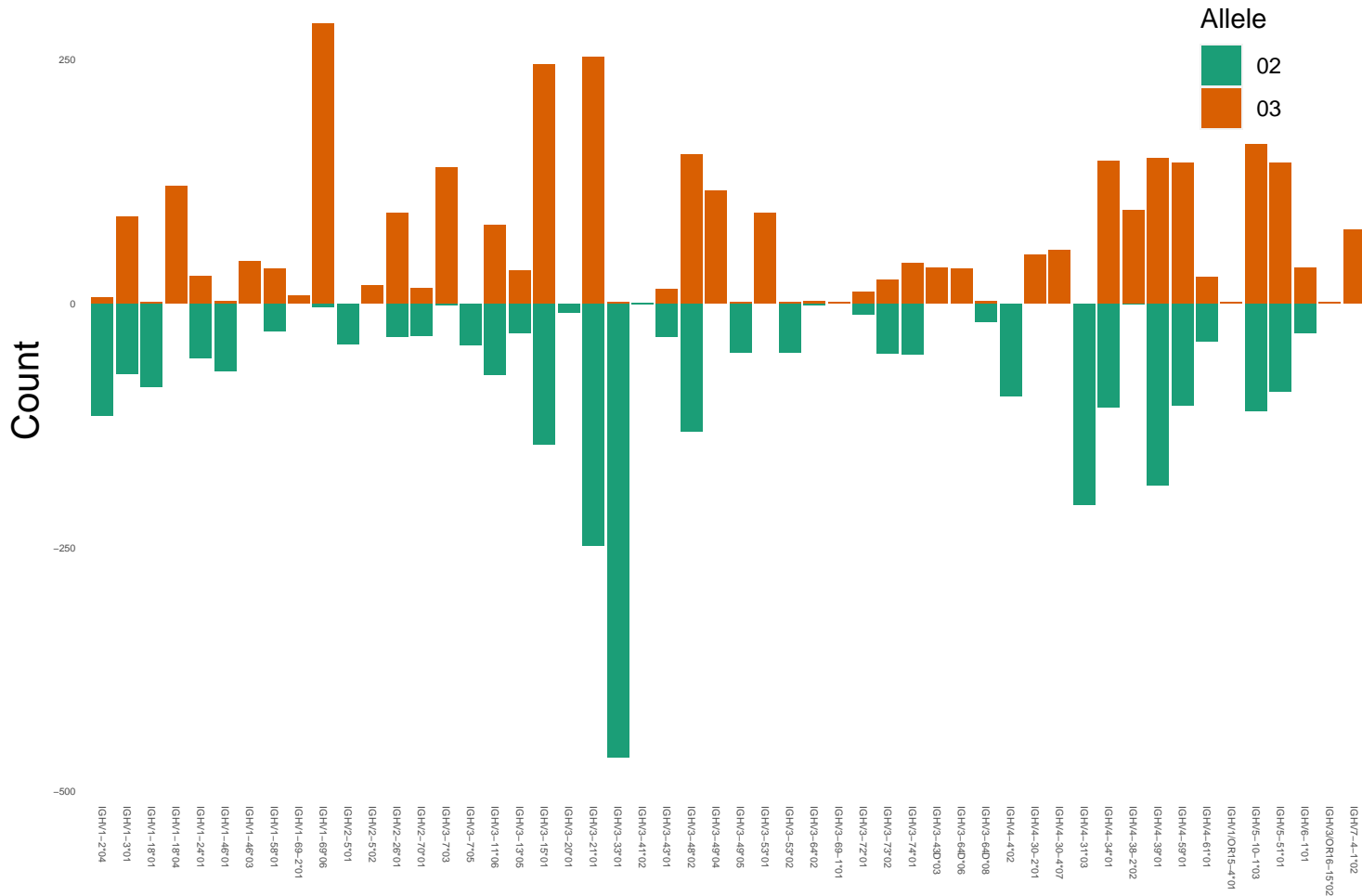
IGHV7-4-1*02

386 sequences assigned
337 (87.3%) exact matches, in which:
328 unique CDR3
6 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.