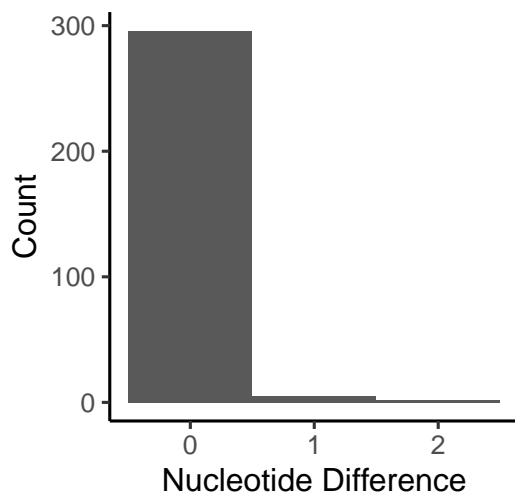


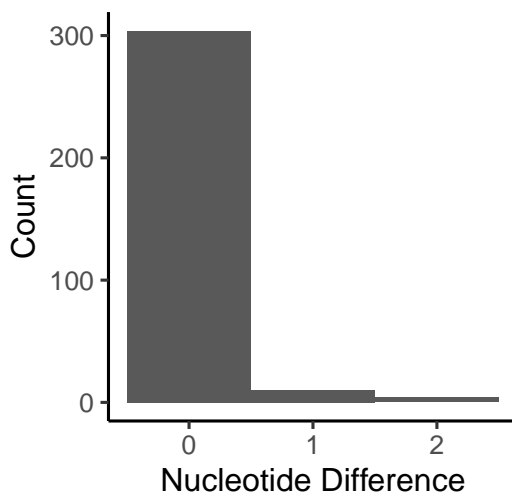
IGHV1-2*04

303 sequences assigned
296 (97.7%) exact matches, in which:
295 unique CDR3
6 unique J



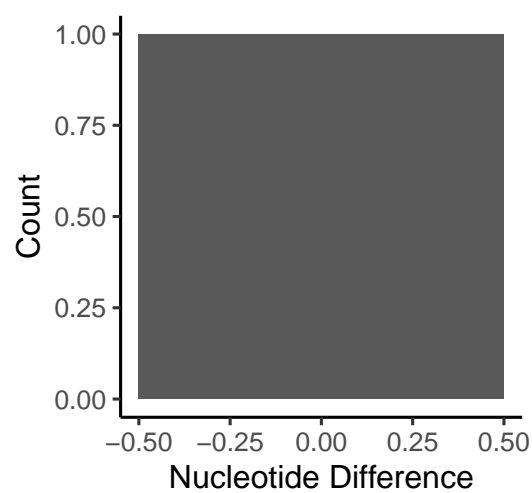
IGHV1-8*01

318 sequences assigned
304 (95.6%) exact matches, in which:
304 unique CDR3
6 unique J



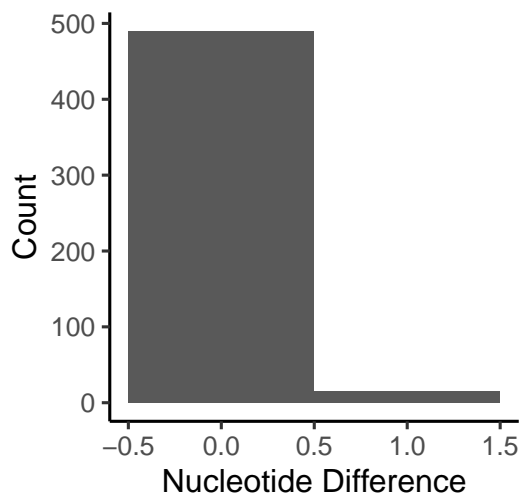
IGHV1-38-4*01

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



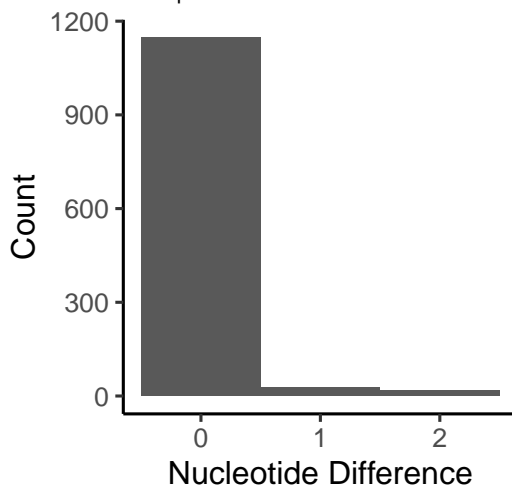
IGHV1-2*06

505 sequences assigned
490 (97%) exact matches, in which:
490 unique CDR3
6 unique J



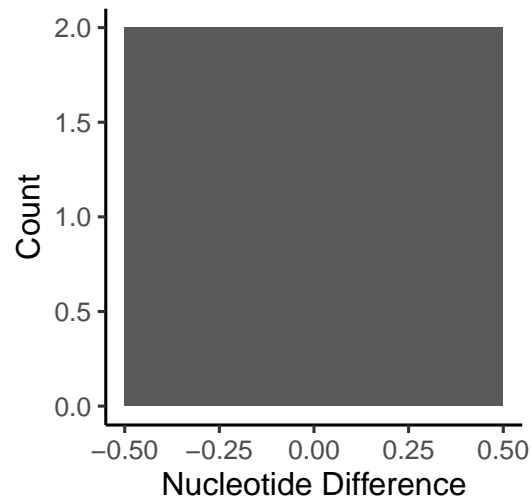
IGHV1-18*01

1191 sequences assigned
1147 (96.3%) exact matches, in which:
1146 unique CDR3
6 unique J



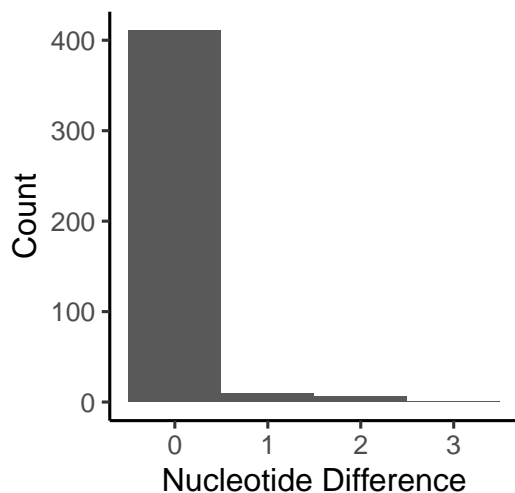
IGHV1-45*02

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



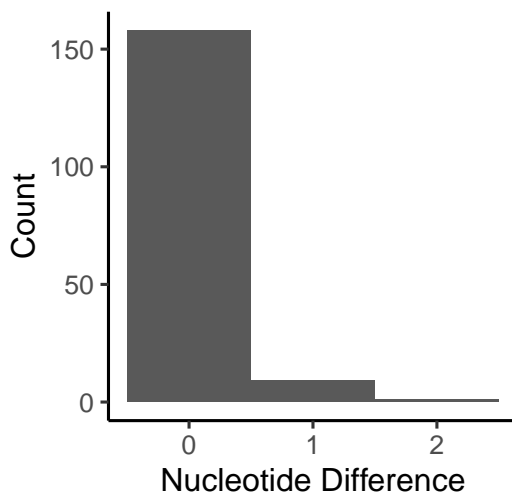
IGHV1-3*01_05

427 sequences assigned
411 (96.3%) exact matches, in which:
411 unique CDR3
6 unique J



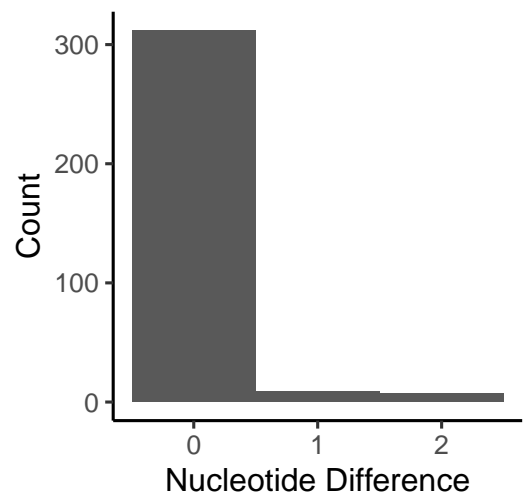
IGHV1-24*01

168 sequences assigned
158 (94%) exact matches, in which:
158 unique CDR3
5 unique J



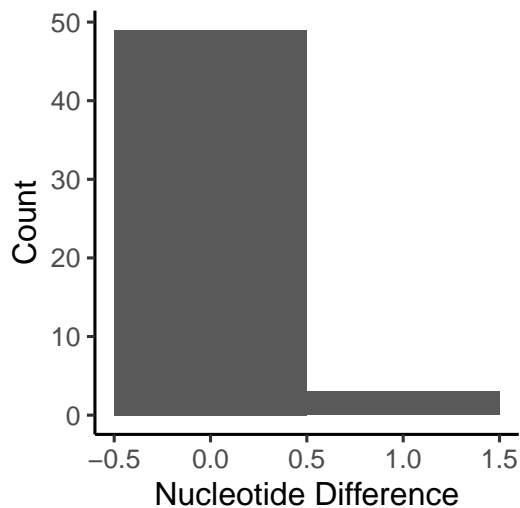
IGHV1-46*03

328 sequences assigned
312 (95.1%) exact matches, in which:
312 unique CDR3
6 unique J



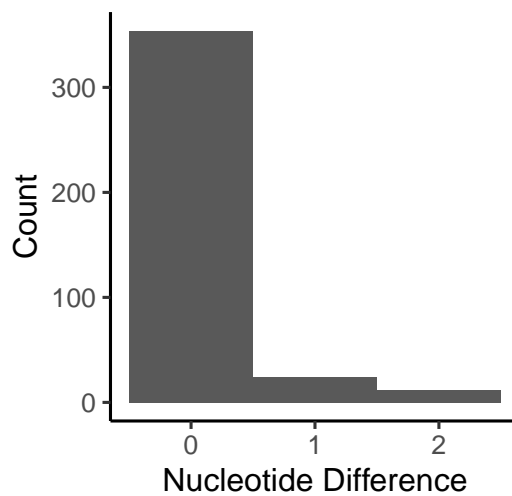
IGHV1-58*02

52 sequences assigned
49 (94.2%) exact matches, in which:
49 unique CDR3
6 unique J



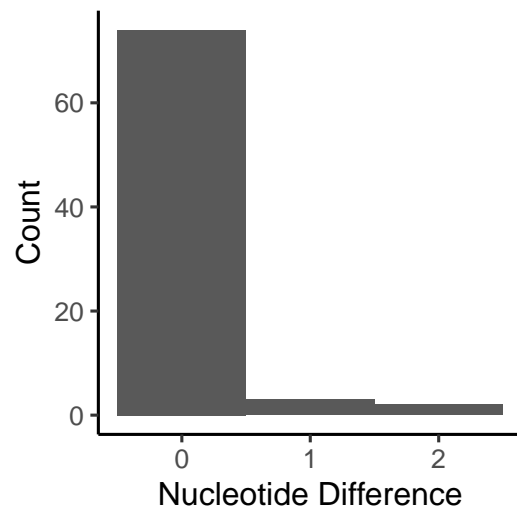
IGHV2-5*02

390 sequences assigned
354 (90.8%) exact matches, in which:
353 unique CDR3
6 unique J



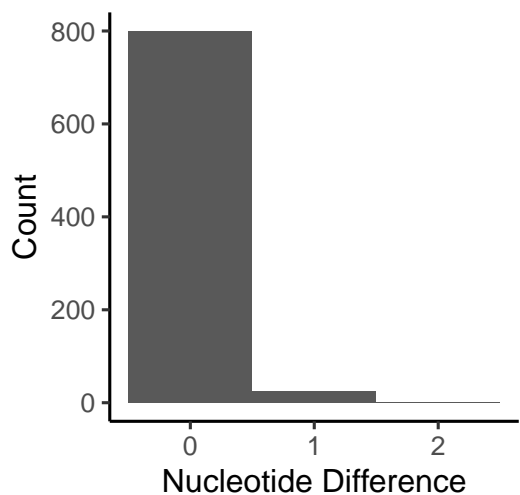
IGHV2-70*11_15

79 sequences assigned
74 (93.7%) exact matches, in which:
73 unique CDR3
5 unique J



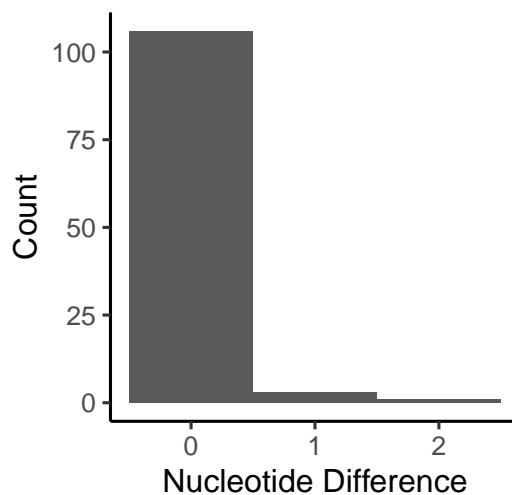
IGHV1-69*01_12_13

826 sequences assigned
800 (96.9%) exact matches, in which:
799 unique CDR3
6 unique J



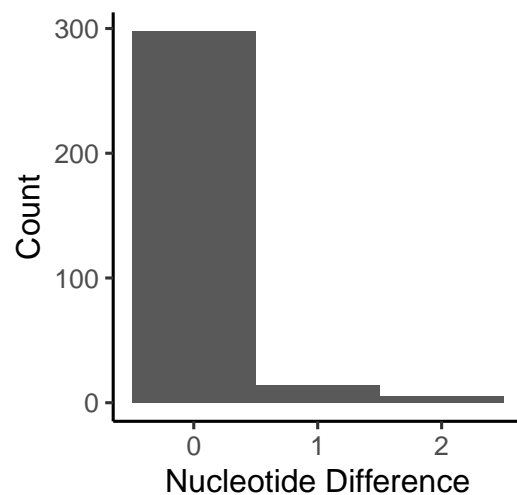
IGHV2-26*01

110 sequences assigned
106 (96.4%) exact matches, in which:
106 unique CDR3
5 unique J



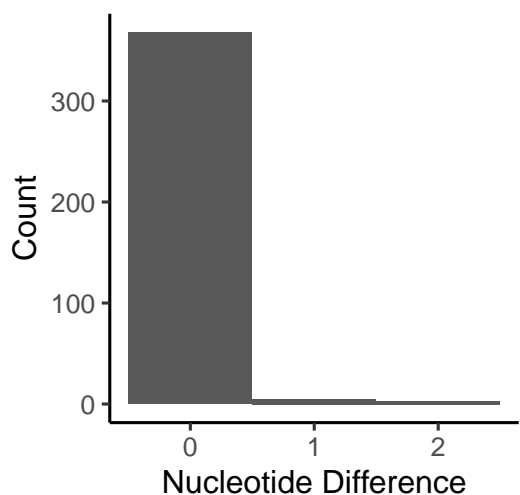
IGHV3-7*01

317 sequences assigned
298 (94%) exact matches, in which:
291 unique CDR3
6 unique J



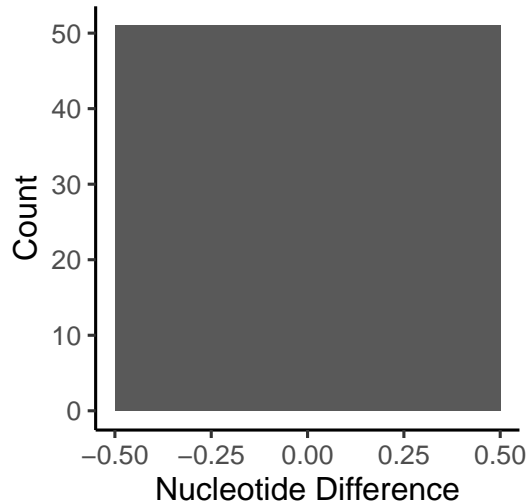
IGHV1-69*04_09

376 sequences assigned
368 (97.9%) exact matches, in which:
368 unique CDR3
6 unique J



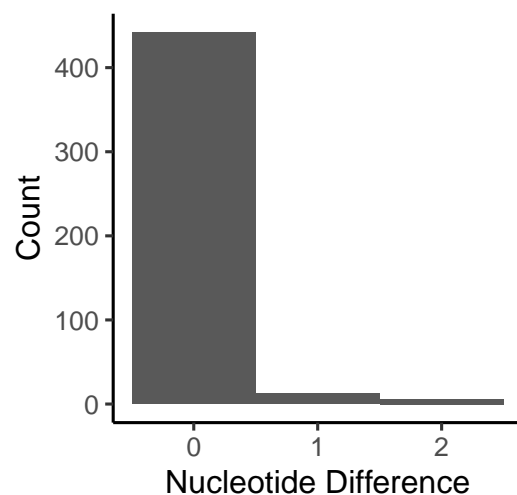
IGHV2-70*01

51 sequences assigned
51 (100%) exact matches, in which:
51 unique CDR3
4 unique J



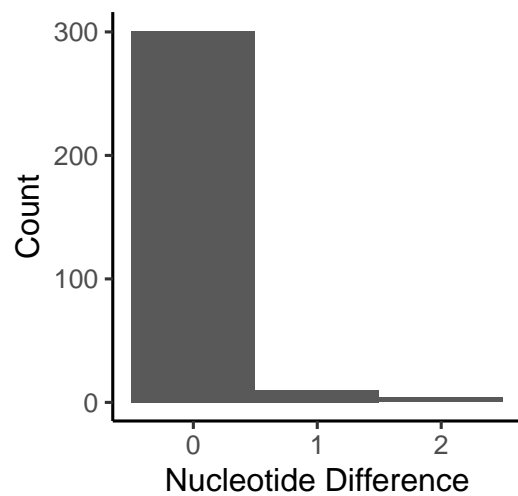
IGHV3-7*03

461 sequences assigned
442 (95.9%) exact matches, in which:
434 unique CDR3
6 unique J



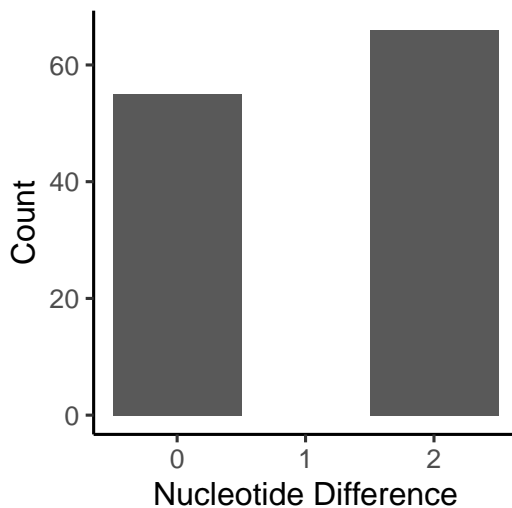
IGHV3-9*01

315 sequences assigned
301 (95.6%) exact matches, in which:
301 unique CDR3
6 unique J



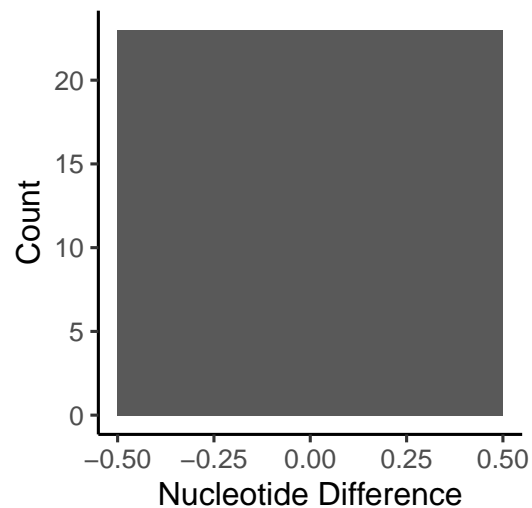
IGHV3-13*01

121 sequences assigned
55 (45.5%) exact matches, in which:
55 unique CDR3
5 unique J



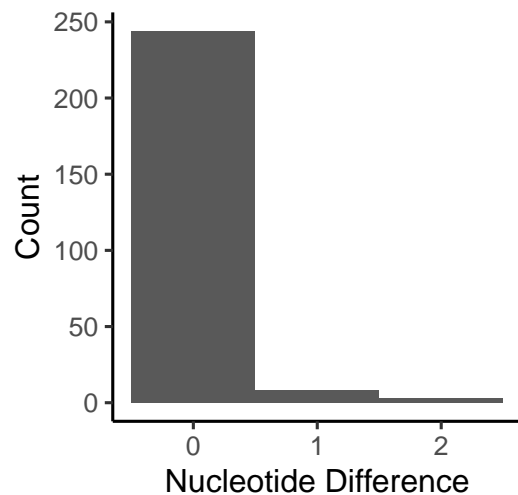
IGHV3-20*01_02

23 sequences assigned
23 (100%) exact matches, in which:
22 unique CDR3
5 unique J



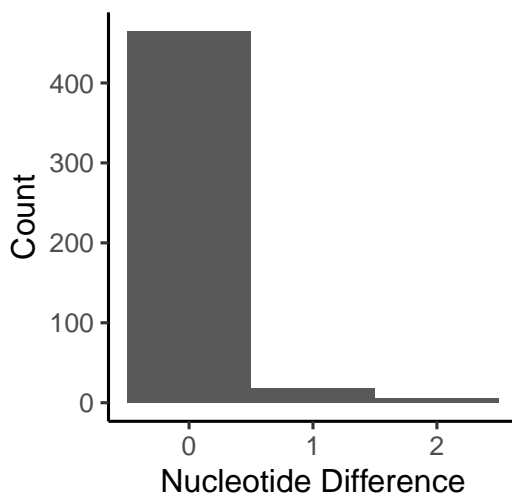
IGHV3-11*01

255 sequences assigned
244 (95.7%) exact matches, in which:
243 unique CDR3
6 unique J



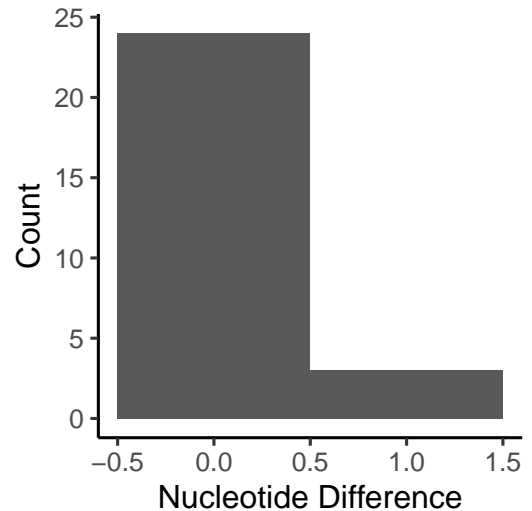
IGHV3-15*07

489 sequences assigned
465 (95.1%) exact matches, in which:
457 unique CDR3
6 unique J



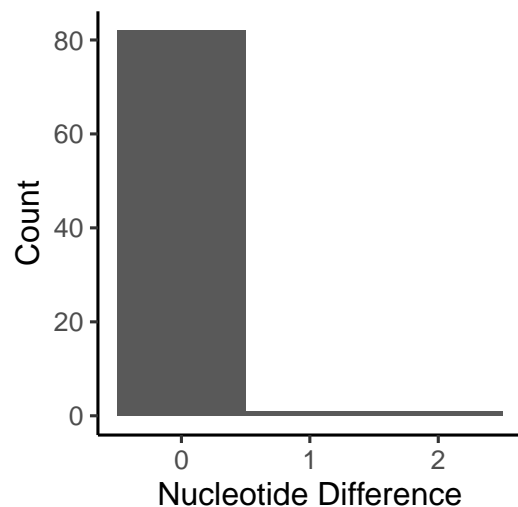
IGHV3-20*03_04

27 sequences assigned
24 (88.9%) exact matches, in which:
24 unique CDR3
4 unique J



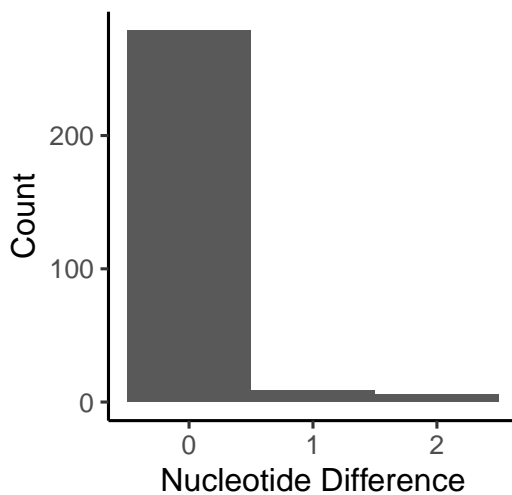
IGHV3-11*06

84 sequences assigned
82 (97.6%) exact matches, in which:
82 unique CDR3
5 unique J



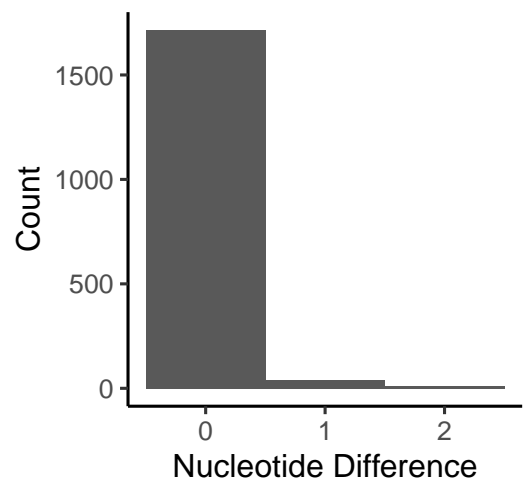
IGHV3-15*01_02

294 sequences assigned
279 (94.9%) exact matches, in which:
274 unique CDR3
6 unique J



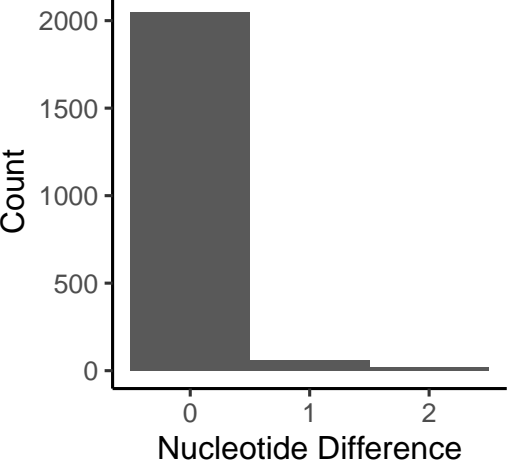
IGHV3-21*01_02

1767 sequences assigned
1715 (97.1%) exact matches, in which:
1694 unique CDR3
6 unique J



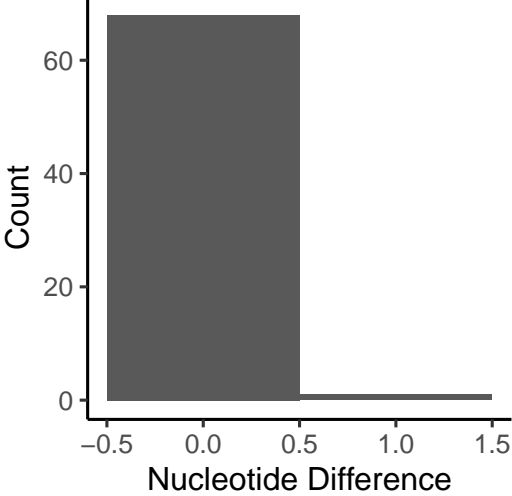
IGHV3-23*01_04

2126 sequences assigned
2047 (96.3%) exact matches, in which:
2004 unique CDR3
6 unique J



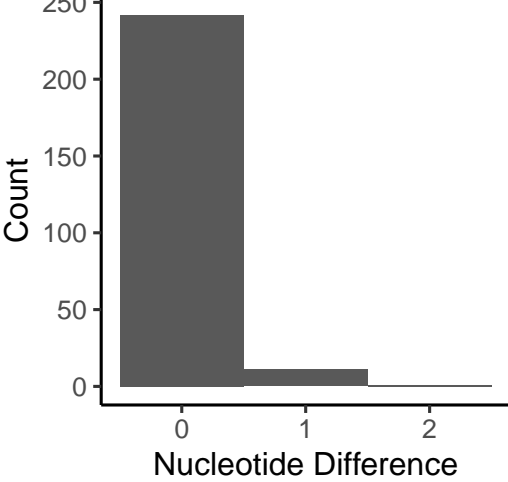
IGHV3-43*01

69 sequences assigned
68 (98.6%) exact matches, in which:
67 unique CDR3
6 unique J



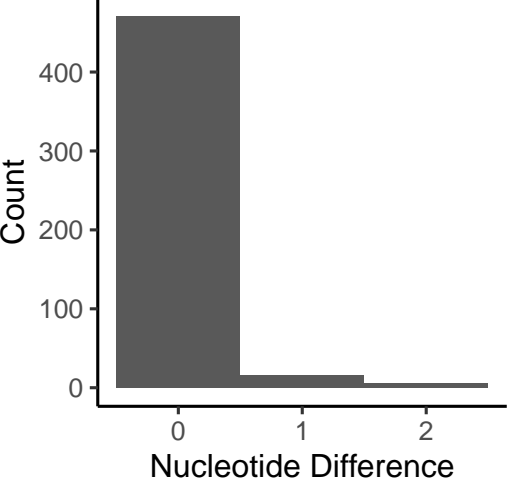
IGHV3-49*03_05

254 sequences assigned
242 (95.3%) exact matches, in which:
241 unique CDR3
6 unique J



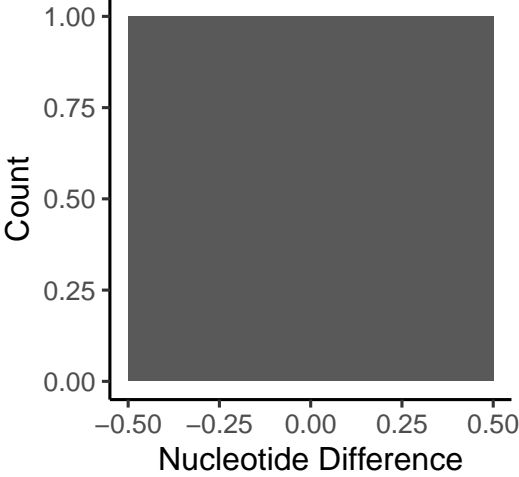
IGHV3-33*01

493 sequences assigned
471 (95.5%) exact matches, in which:
462 unique CDR3
6 unique J



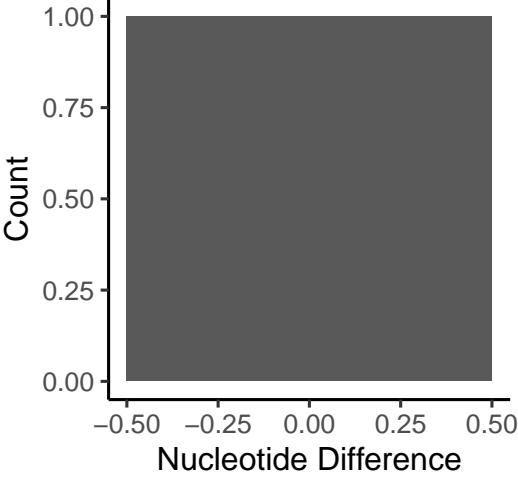
IGHV3-47*02

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



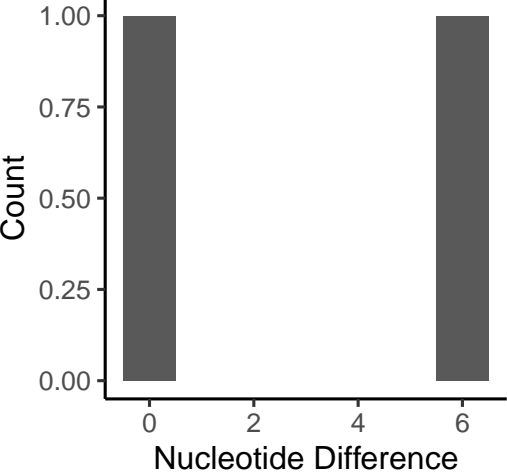
IGHV3-52*02

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



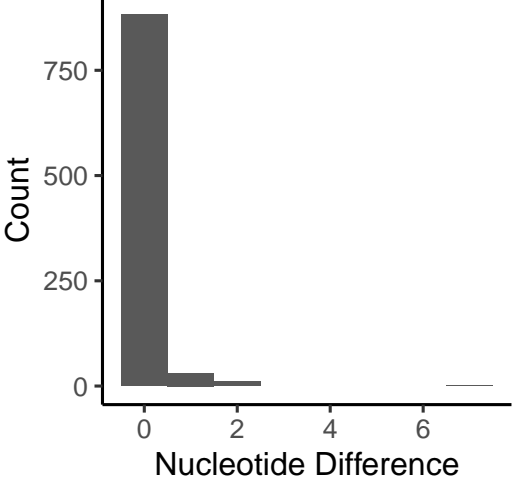
IGHV3-38-3*01

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



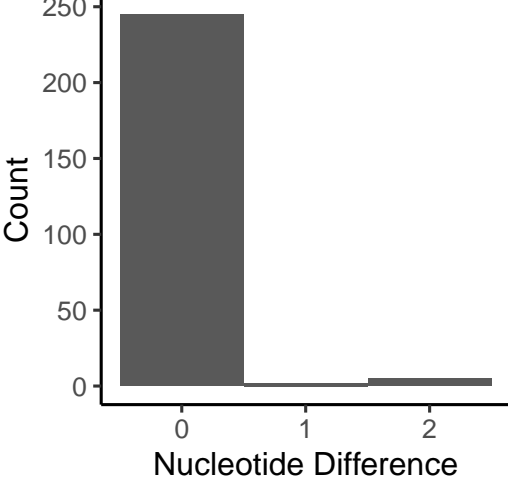
IGHV3-48*01

925 sequences assigned
883 (95.5%) exact matches, in which:
867 unique CDR3
6 unique J



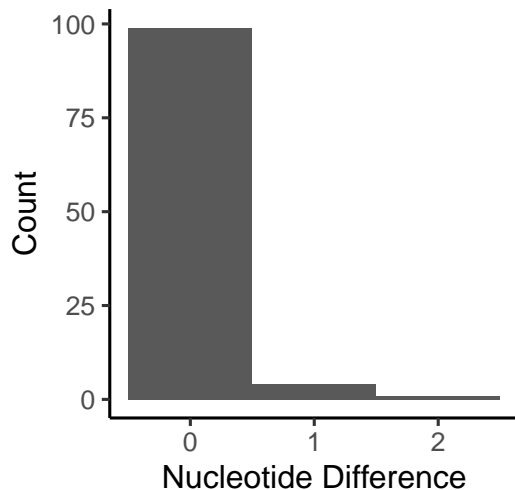
IGHV3-53*01_02

252 sequences assigned
245 (97.2%) exact matches, in which:
240 unique CDR3
6 unique J



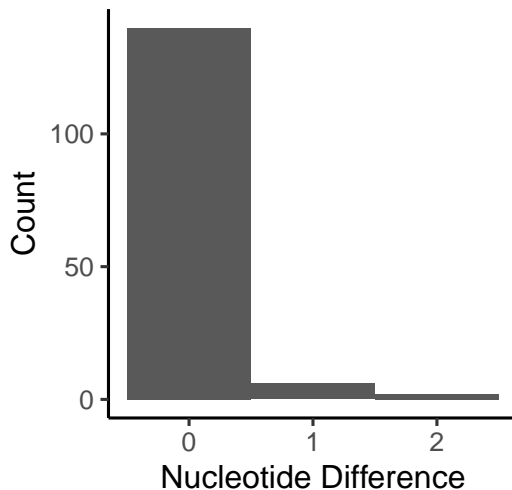
IGHV3-64*01

104 sequences assigned
99 (95.2%) exact matches, in which:
97 unique CDR3
5 unique J



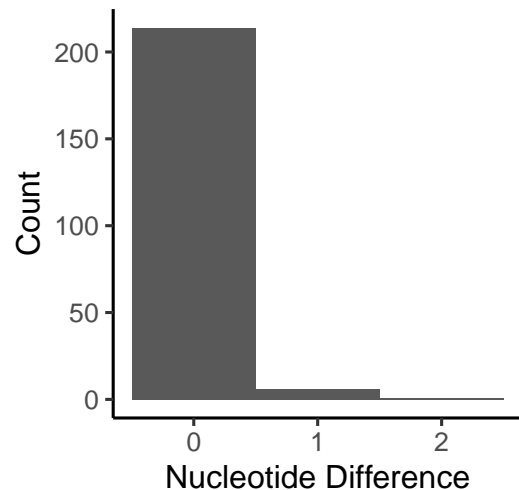
IGHV3-73*01_02

148 sequences assigned
140 (94.6%) exact matches, in which:
139 unique CDR3
6 unique J



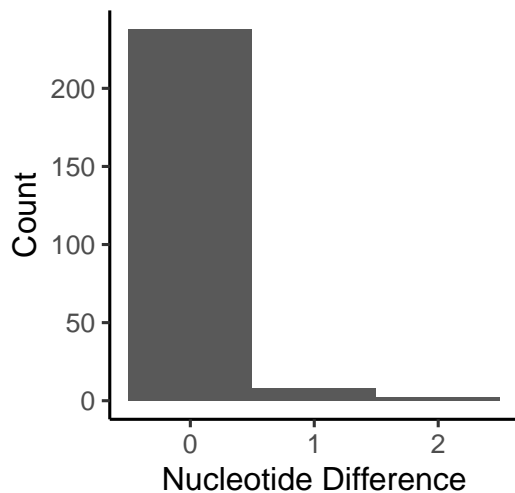
IGHV3-64D*06

221 sequences assigned
214 (96.8%) exact matches, in which:
212 unique CDR3
5 unique J



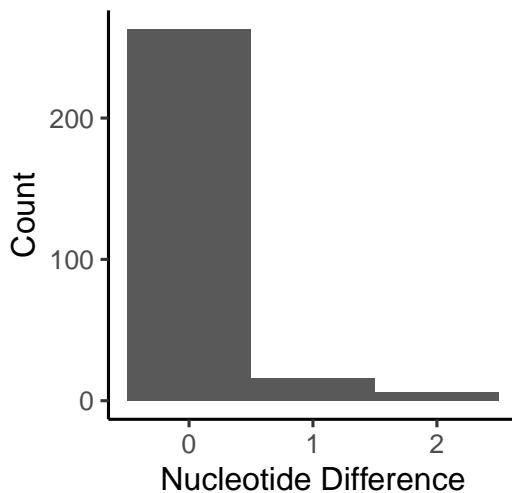
IGHV3-66*01

248 sequences assigned
238 (96%) exact matches, in which:
236 unique CDR3
6 unique J



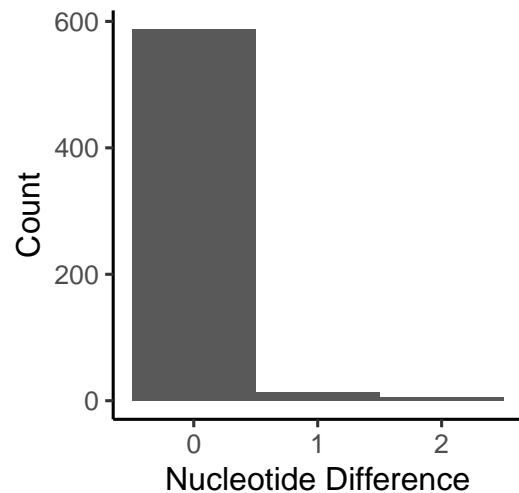
IGHV3-74*01_02

285 sequences assigned
263 (92.3%) exact matches, in which:
258 unique CDR3
6 unique J



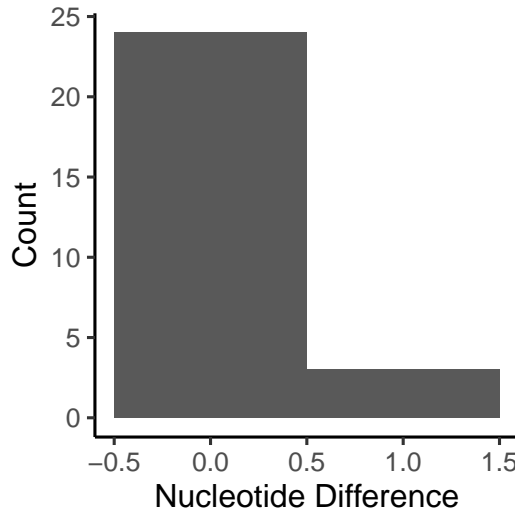
IGHV4-4*02_03

608 sequences assigned
588 (96.7%) exact matches, in which:
584 unique CDR3
6 unique J



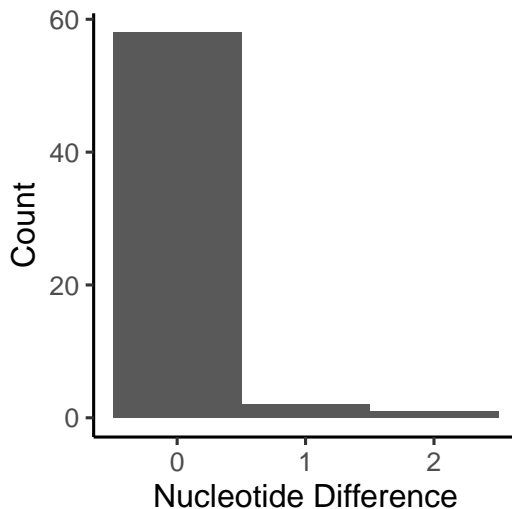
IGHV3-72*01

27 sequences assigned
24 (88.9%) exact matches, in which:
24 unique CDR3
3 unique J



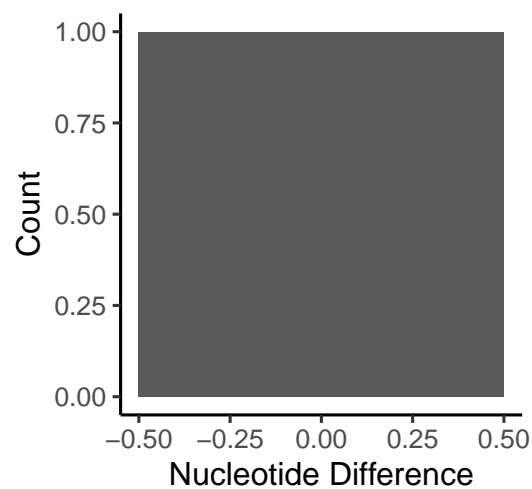
IGHV3-43D*03

61 sequences assigned
58 (95.1%) exact matches, in which:
57 unique CDR3
4 unique J



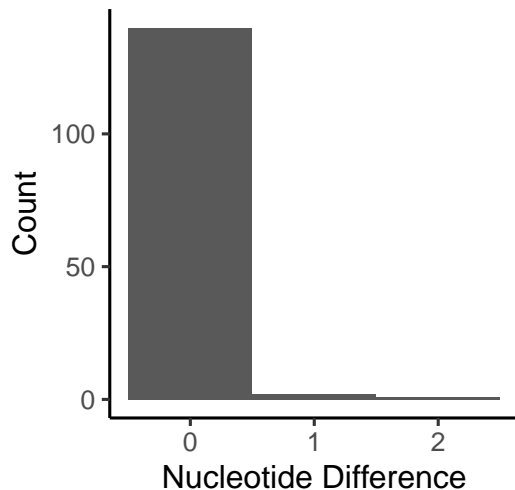
IGHV4-28*03

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



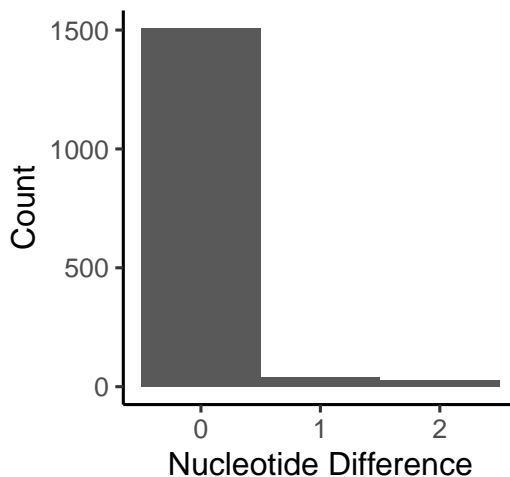
IGHV4-30-2*01

143 sequences assigned
140 (97.9%) exact matches, in which:
139 unique CDR3
6 unique J



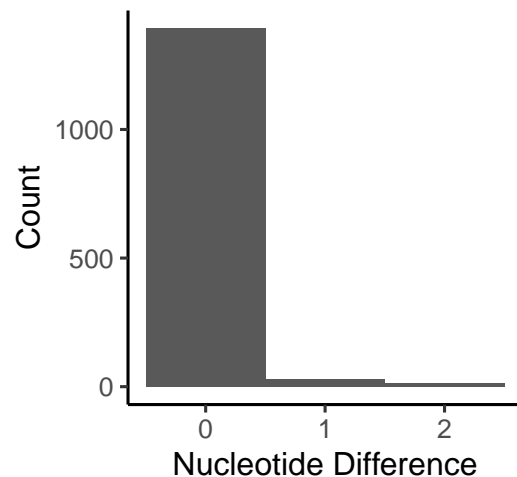
IGHV4-34*01_02

1574 sequences assigned
1507 (95.7%) exact matches, in which:
1484 unique CDR3
6 unique J



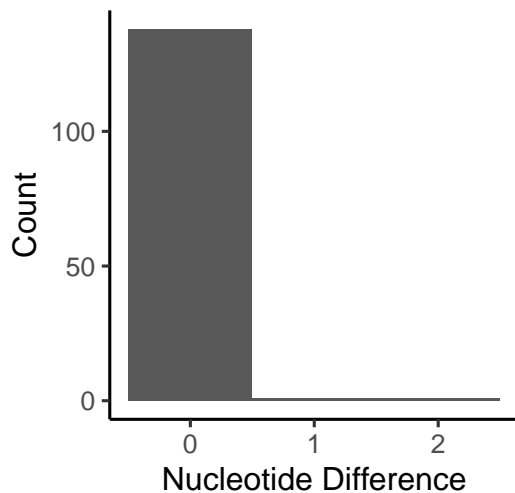
IGHV4-59*08

1437 sequences assigned
1393 (96.9%) exact matches, in which:
1380 unique CDR3
6 unique J



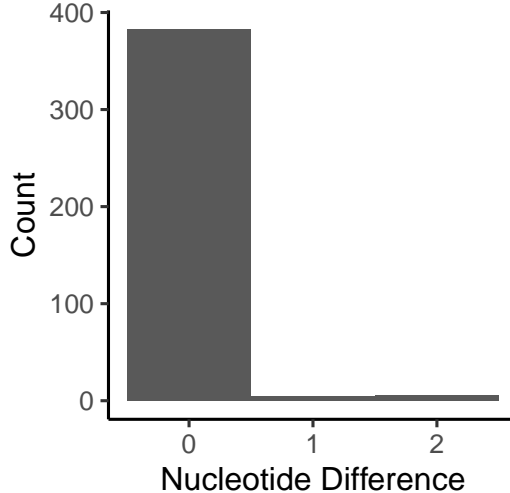
IGHV4-30-4*07

140 sequences assigned
138 (98.6%) exact matches, in which:
137 unique CDR3
6 unique J



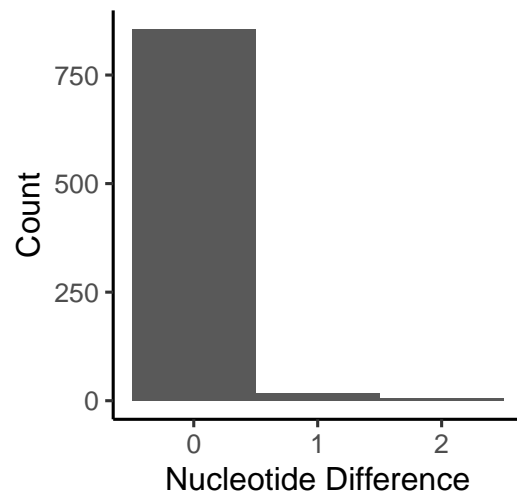
IGHV4-38-2*02

394 sequences assigned
383 (97.2%) exact matches, in which:
379 unique CDR3
6 unique J



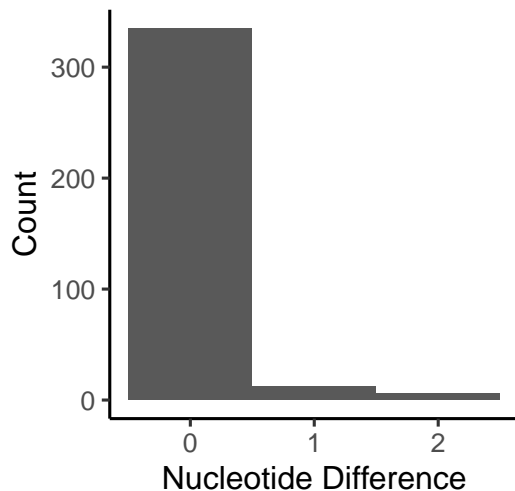
IGHV4-59*01_07

879 sequences assigned
856 (97.4%) exact matches, in which:
841 unique CDR3
6 unique J



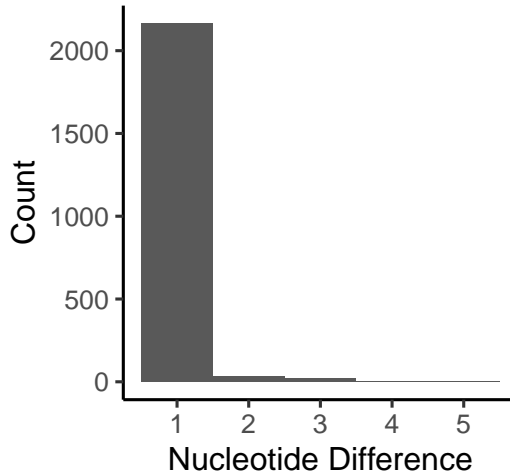
IGHV4-31*02

353 sequences assigned
335 (94.9%) exact matches, in which:
335 unique CDR3
6 unique J



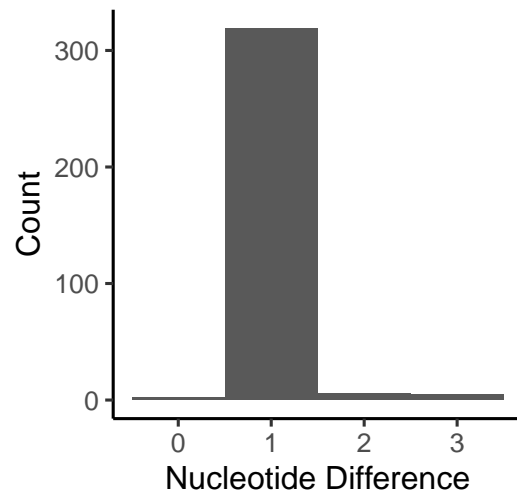
IGHV4-39*02

2223 sequences assigned
No exact matches.



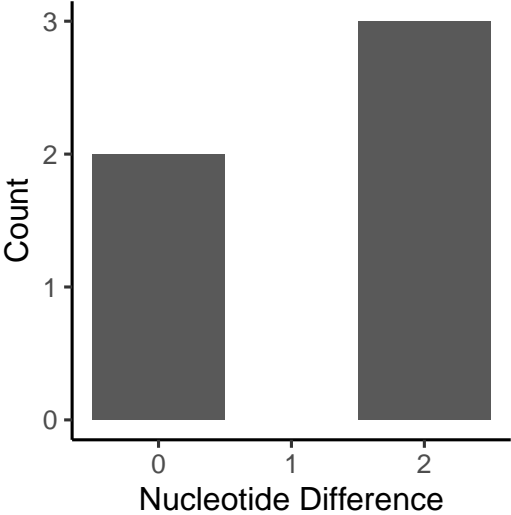
IGHV4-59*12

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



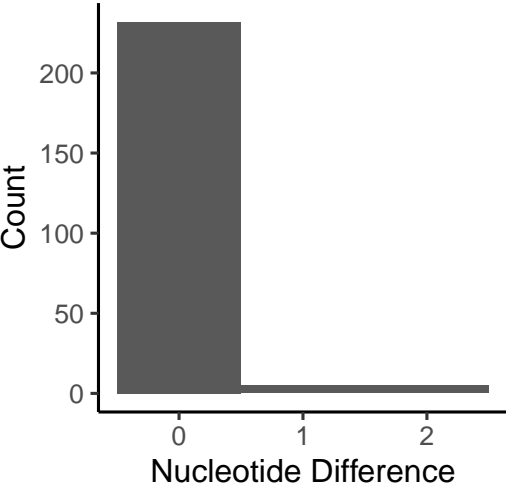
IGHV4-61*02

5 sequences assigned
2 (40%) exact matches, in which:
2 unique CDR3
2 unique J



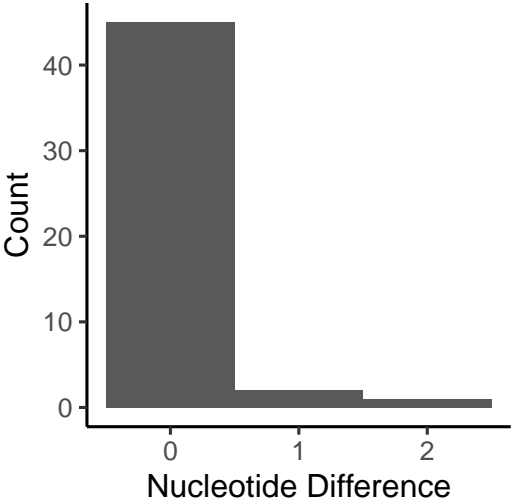
IGHV6-1*01_02

242 sequences assigned
232 (95.9%) exact matches, in which:
231 unique CDR3
6 unique J



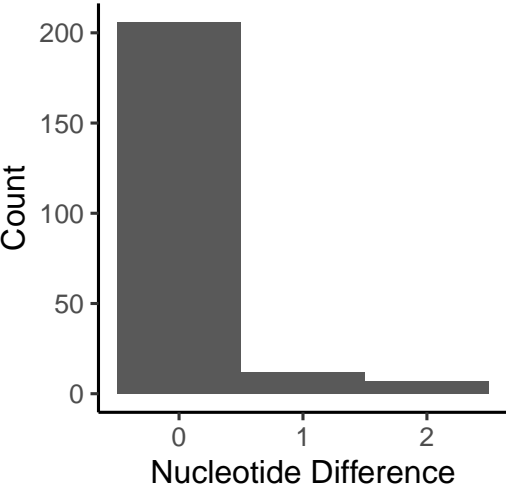
IGHV5-10-1*01_03

48 sequences assigned
45 (93.8%) exact matches, in which:
45 unique CDR3
5 unique J



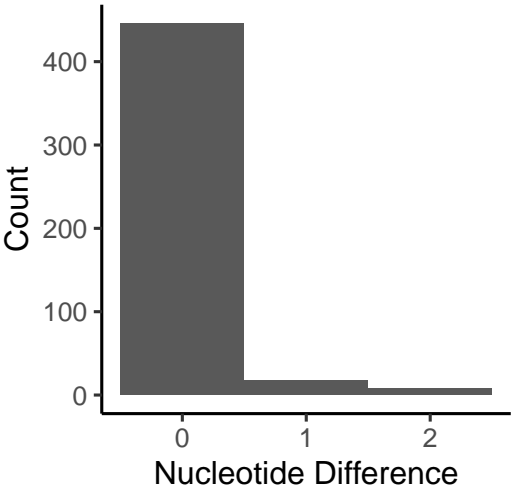
IGHV7-4-1*02

225 sequences assigned
206 (91.6%) exact matches, in which:
205 unique CDR3
6 unique J



IGHV5-51*07_A128G

471 sequences assigned
446 (94.7%) exact matches, in which:
446 unique CDR3
6 unique J





Warning – no inferred sequences found.