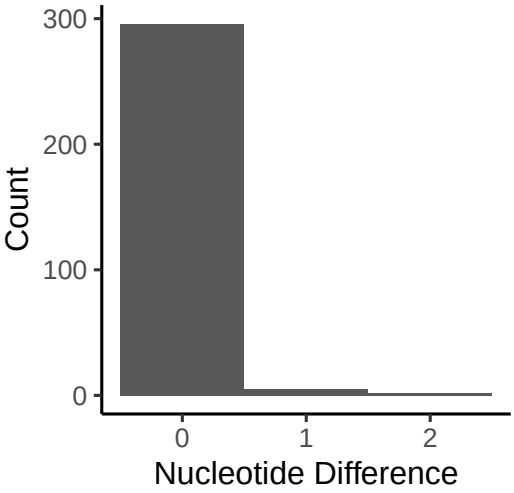
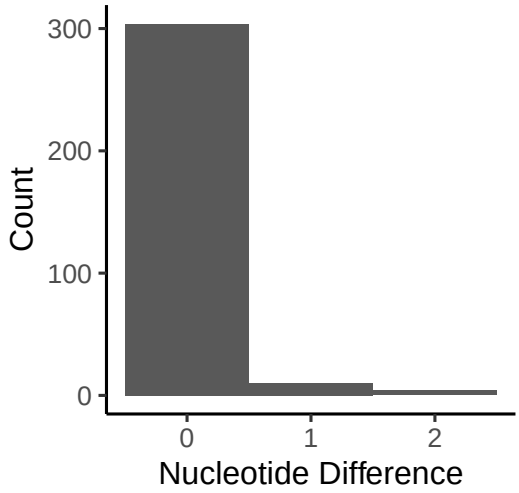
IGHV1−2*04

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



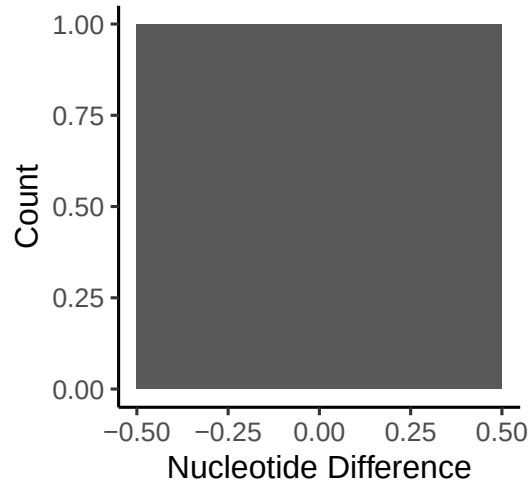
IGHV1−8*01

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



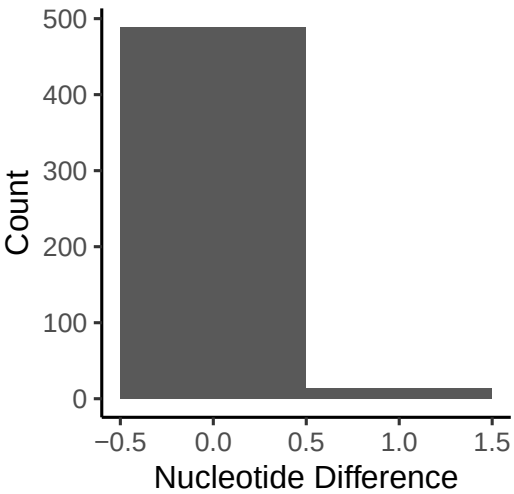
IGHV1−38−4*01

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



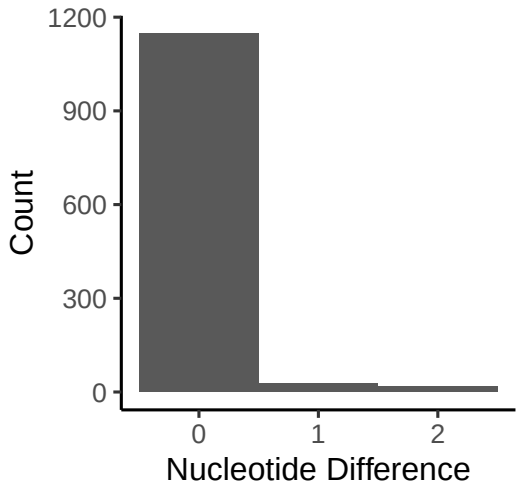
IGHV1−2*06

503 sequences assigned
489 (97.2%) exact matches, in which:
489 unique CDR3
6 unique J



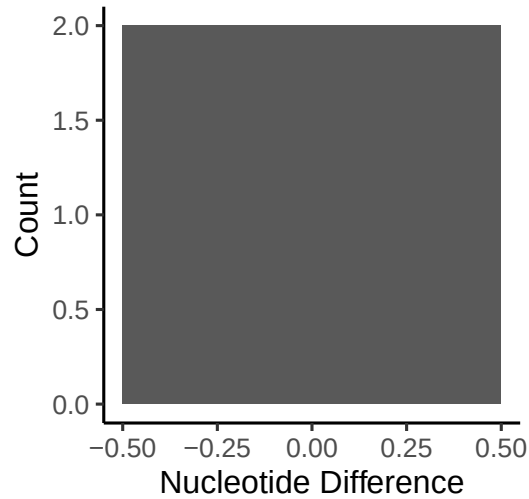
IGHV1−18*01

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



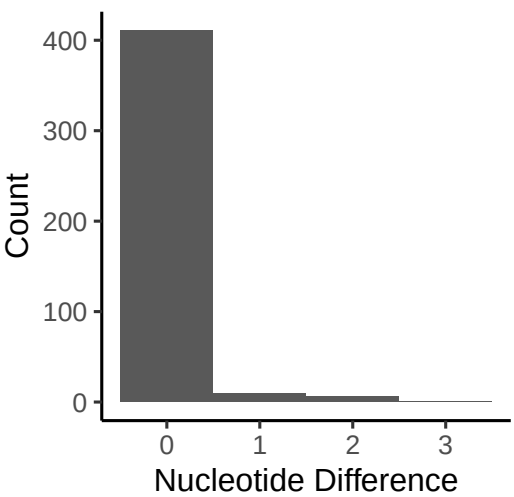
IGHV1−45*02

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



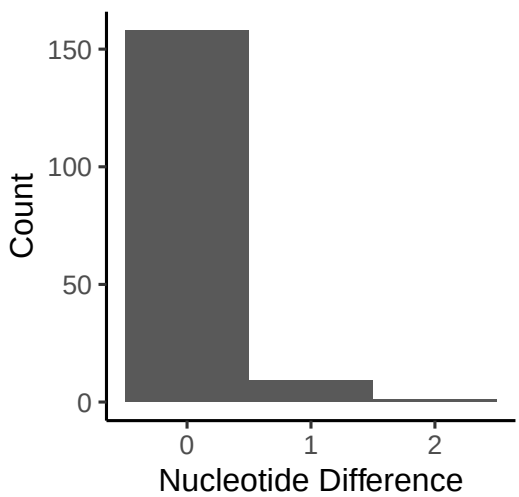
IGHV1−3*01_05

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



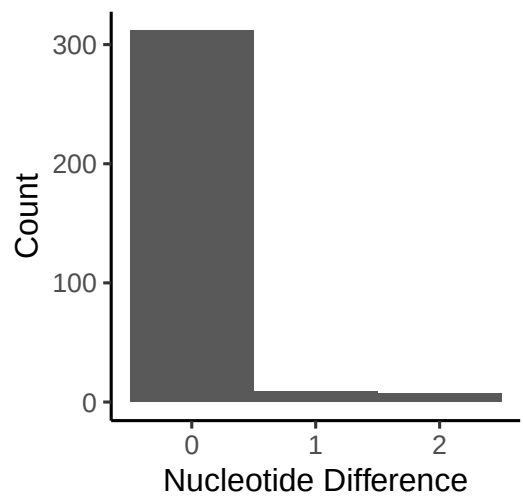
IGHV1−24*01

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



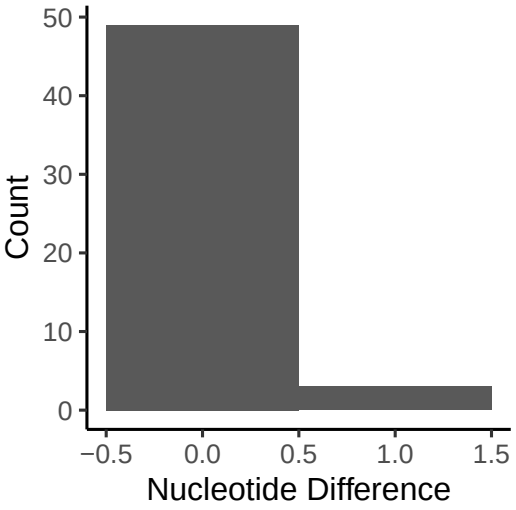
IGHV1−46*03

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



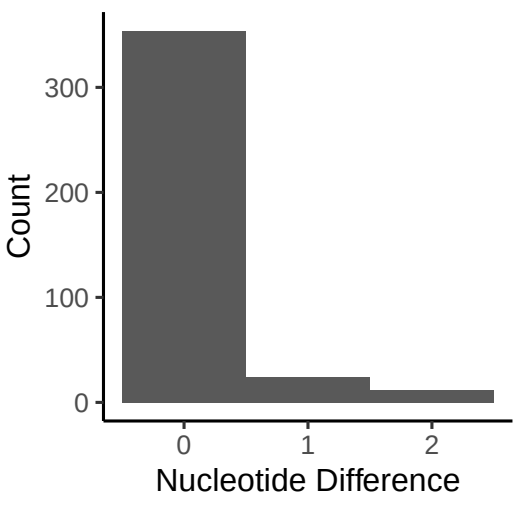
IGHV1−58*02

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



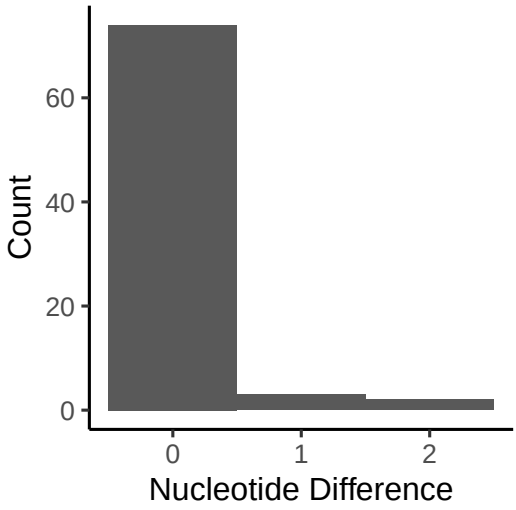
IGHV2−5*02

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



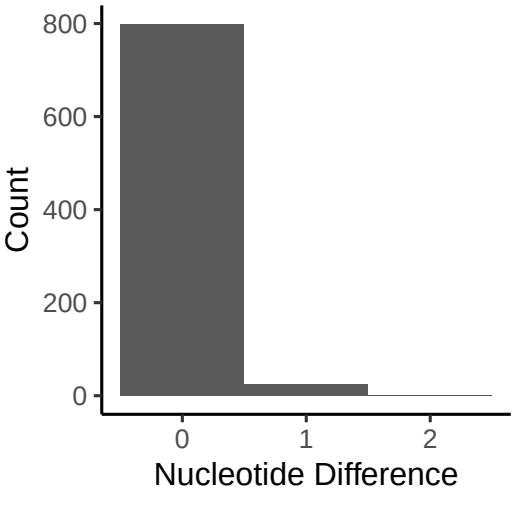
IGHV2−70*11_15

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



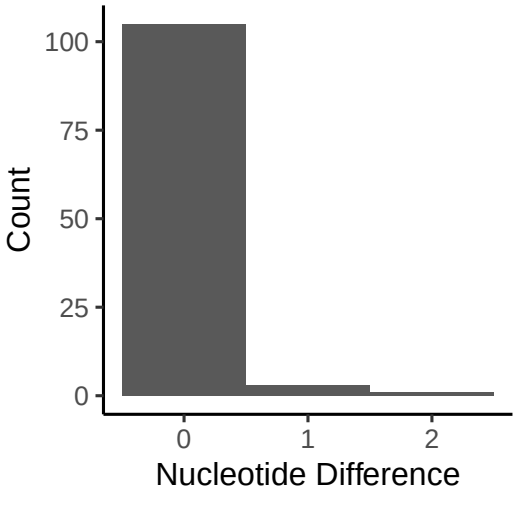
IGHV1−69*01_12_13

825 sequences assigned
799 (96.8%) exact matches, in which:
797 unique CDR3
6 unique J



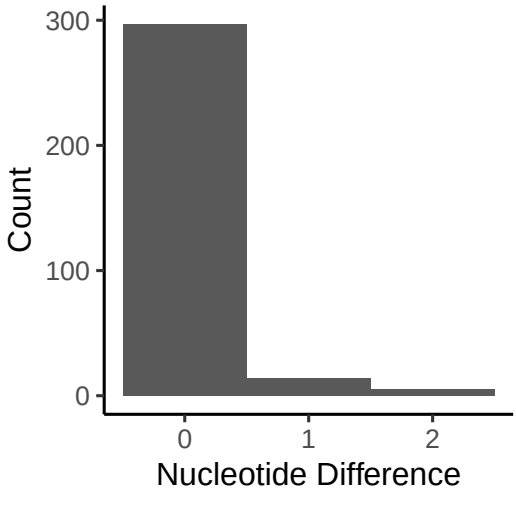
IGHV2−26*01

109 sequences assigned
105 (96.3%) exact matches, in which:
105 unique CDR3
5 unique J



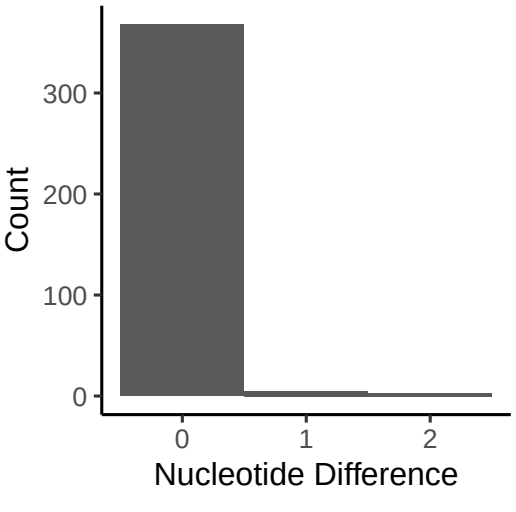
IGHV3−7*01

316 sequences assigned
297 (94%) exact matches, in which:
290 unique CDR3
6 unique J



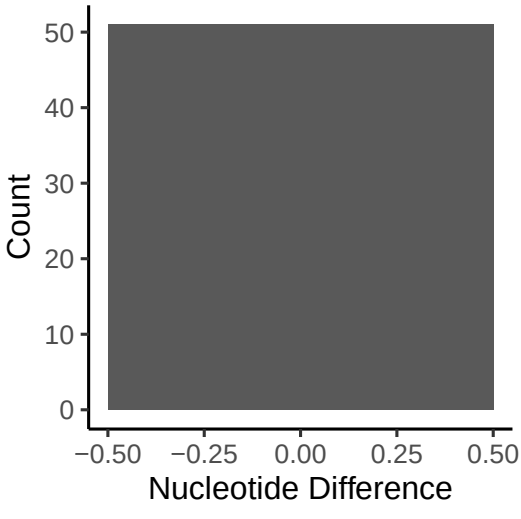
IGHV1−69*04_09

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



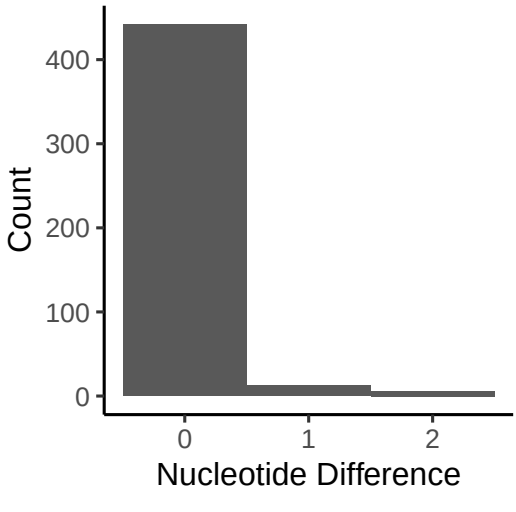
IGHV2−70*01

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



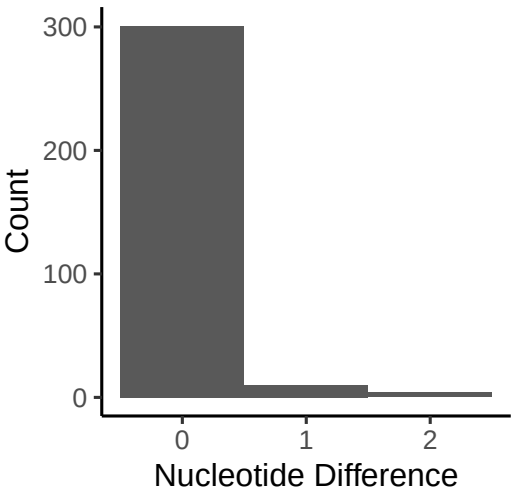
IGHV3−7*03

460 sequences assigned
442 (96.1%) exact matches, in which:
434 unique CDR3
6 unique J



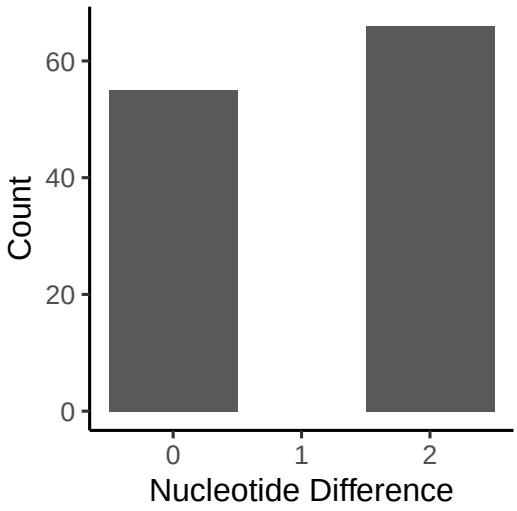
IGHV3−9*01

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



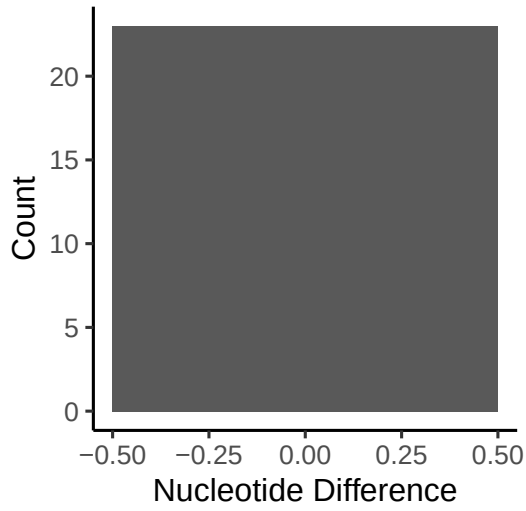
IGHV3−13*01

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



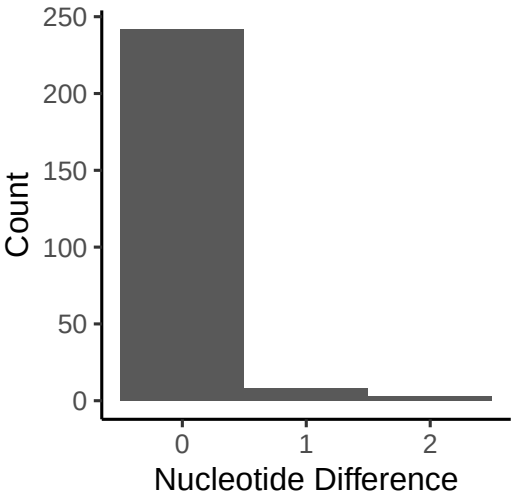
IGHV3−20*01_02

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



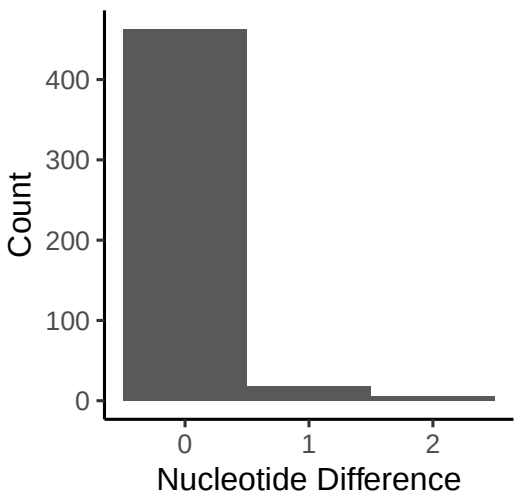
IGHV3−11*01

253 sequences assigned
242 (95.7%) exact matches, in which:
241 unique CDR3
6 unique J



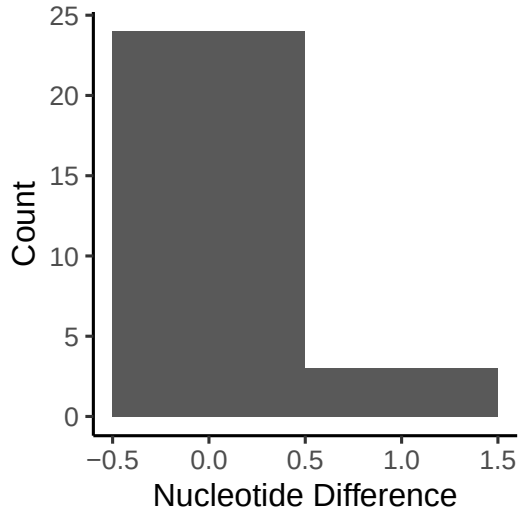
IGHV3−15*07

487 sequences assigned
463 (95.1%) exact matches, in which:
455 unique CDR3
6 unique J



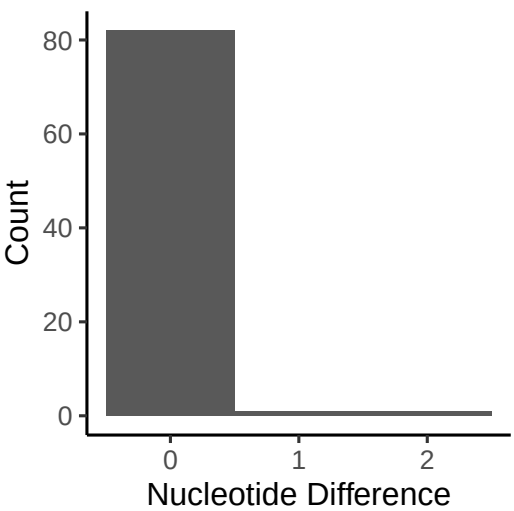
IGHV3−20*03_04

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



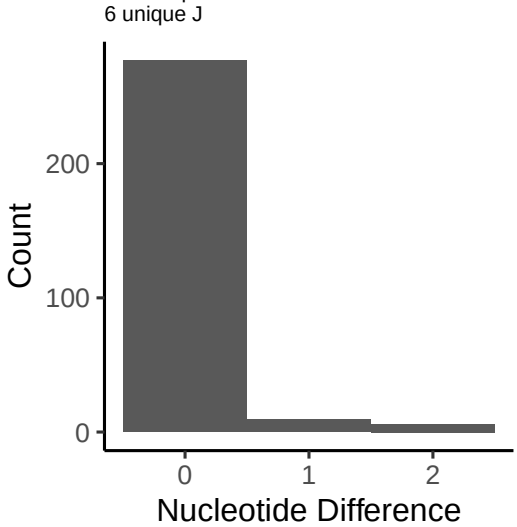
IGHV3−11*06

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



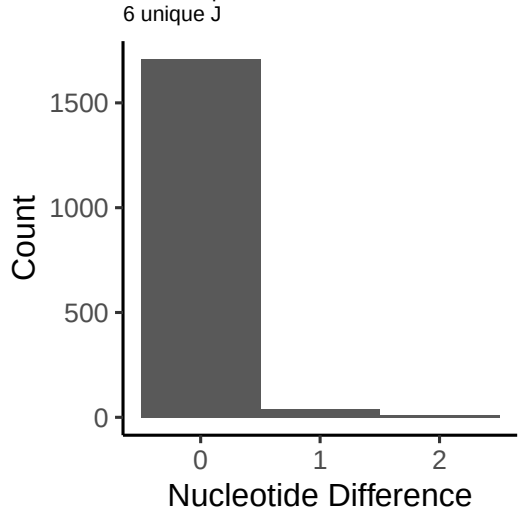
IGHV3−15*01_02

292 sequences assigned
277 (94.9%) exact matches, in which:
272 unique CDR3
6 unique J



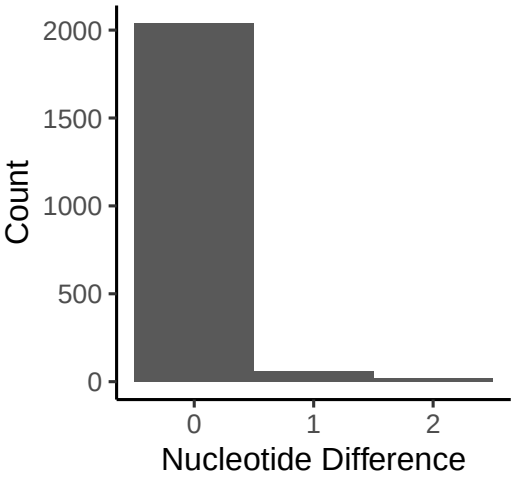
IGHV3−21*01_02

1761 sequences assigned
1709 (97%) exact matches, in which:
1688 unique CDR3
6 unique J



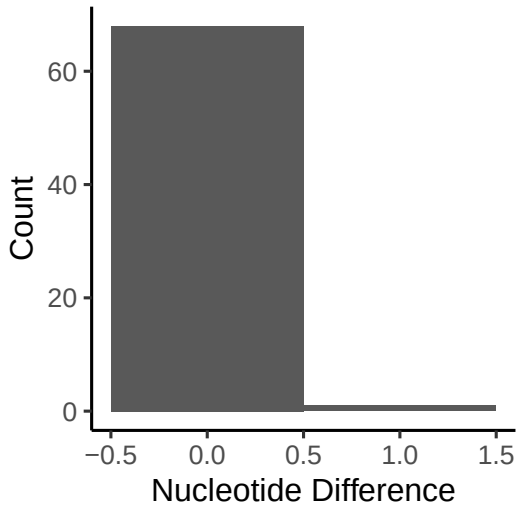
IGHV3−23*01_04

2117 sequences assigned
2038 (96.3%) exact matches, in which:
1995 unique CDR3
6 unique J



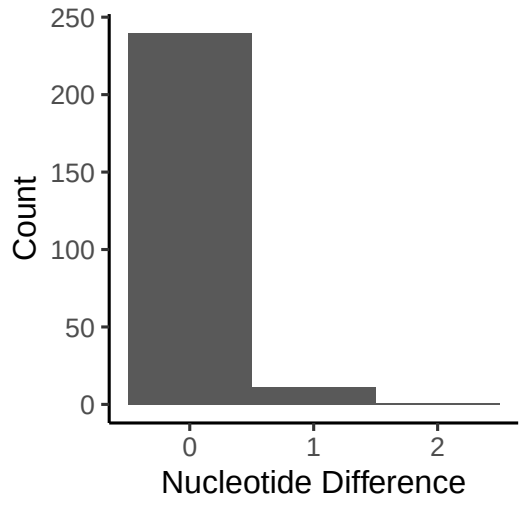
IGHV3−43*01

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



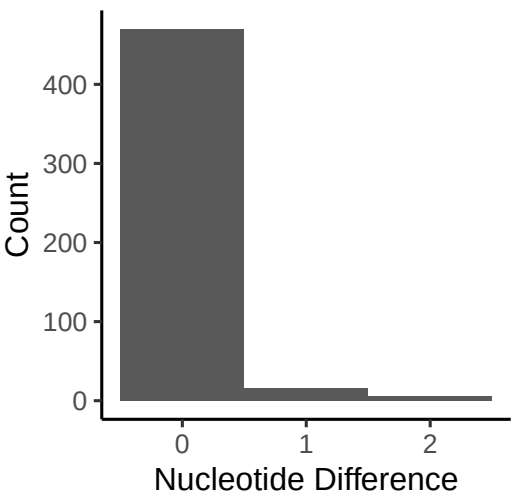
IGHV3−49*03_05

252 sequences assigned
240 (95.2%) exact matches, in which:
239 unique CDR3
6 unique J



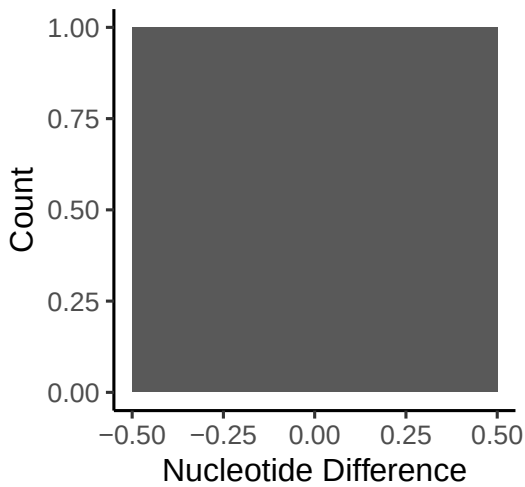
IGHV3−33*01

492 sequences assigned
470 (95.5%) exact matches, in which:
461 unique CDR3
6 unique J



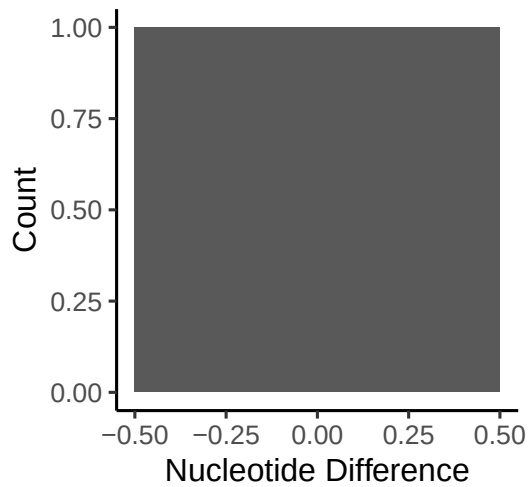
IGHV3−47*02

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



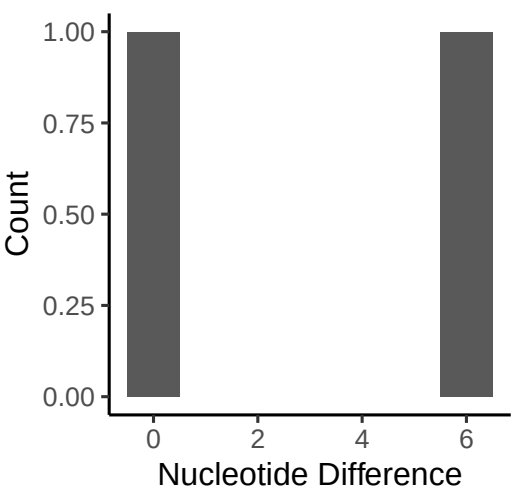
IGHV3−52*02

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



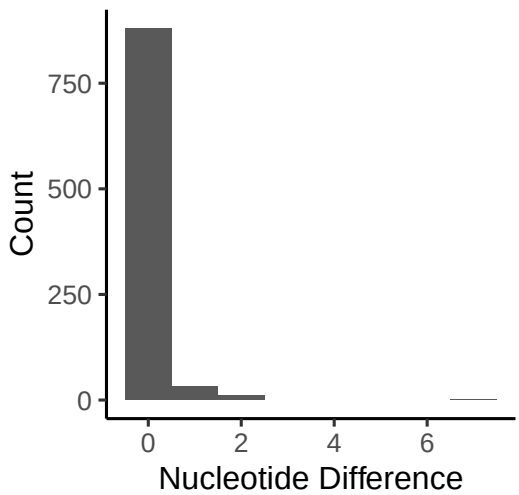
IGHV3−38−3*01

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



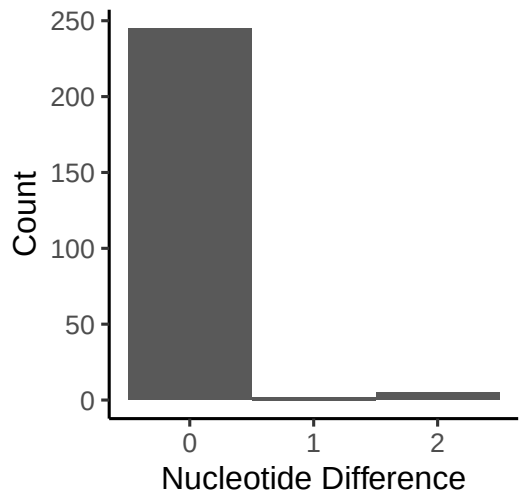
IGHV3−48*01

922 sequences assigned
880 (95.4%) exact matches, in which:
865 unique CDR3
6 unique J



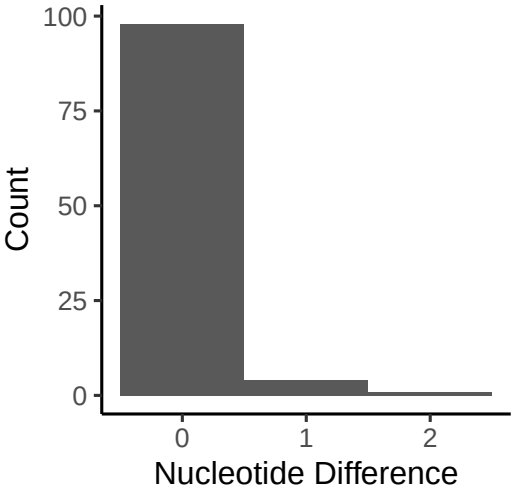
IGHV3−53*01_02

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



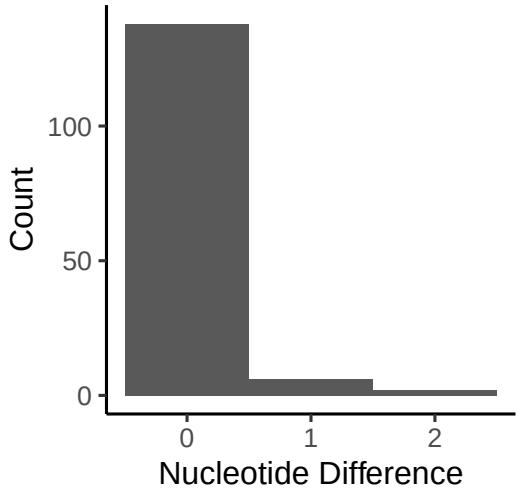
IGHV3−64*01

103 sequences assigned
98 (95.1%) exact matches, in which:
96 unique CDR3
5 unique J



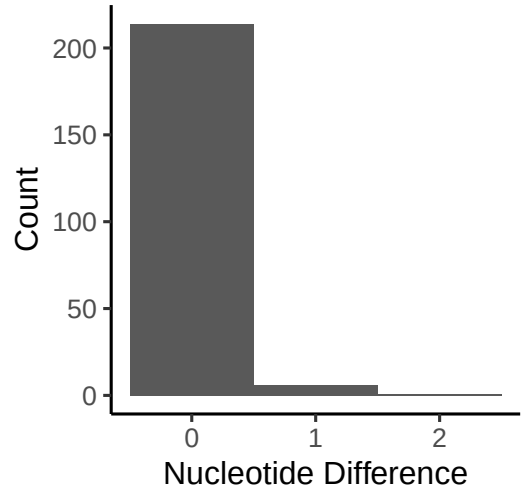
IGHV3−73*01_02

146 sequences assigned
138 (94.5%) exact matches, in which:
138 unique CDR3
6 unique J



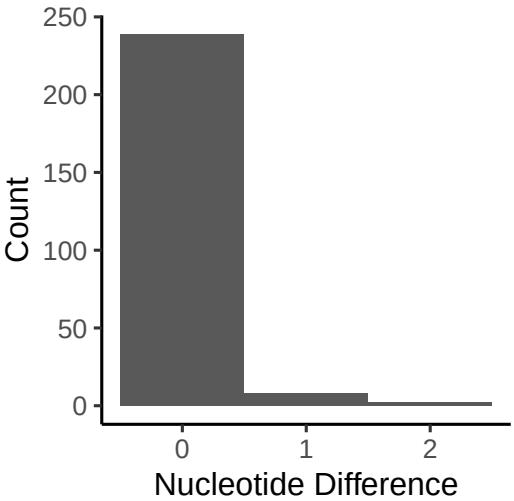
IGHV3−64D*06

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



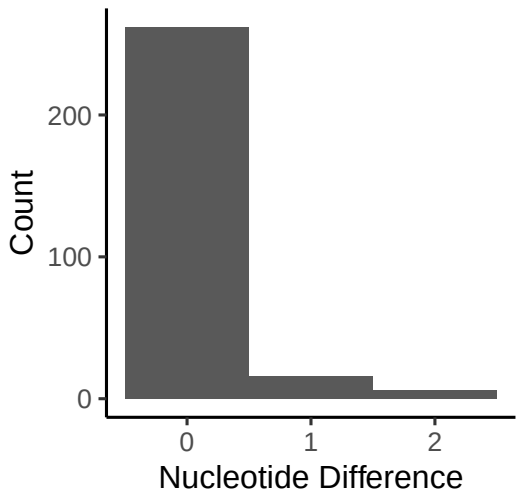
IGHV3−66*01

249 sequences assigned
239 (96%) exact matches, in which:
236 unique CDR3
6 unique J



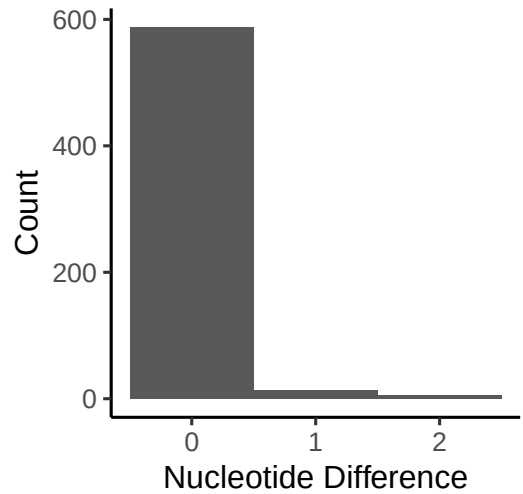
IGHV3−74*01_02

284 sequences assigned
262 (92.3%) exact matches, in which:
257 unique CDR3
6 unique J



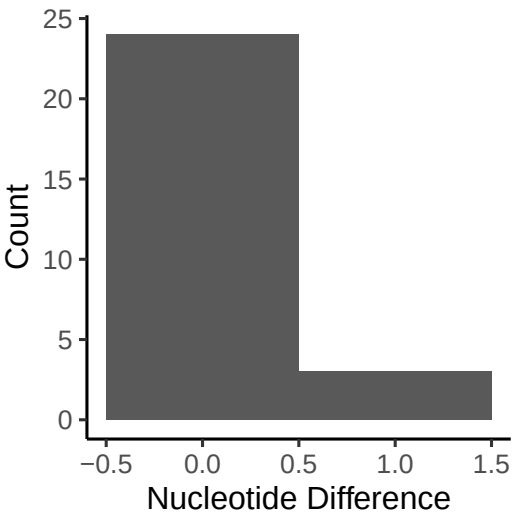
IGHV4−4*02_03

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



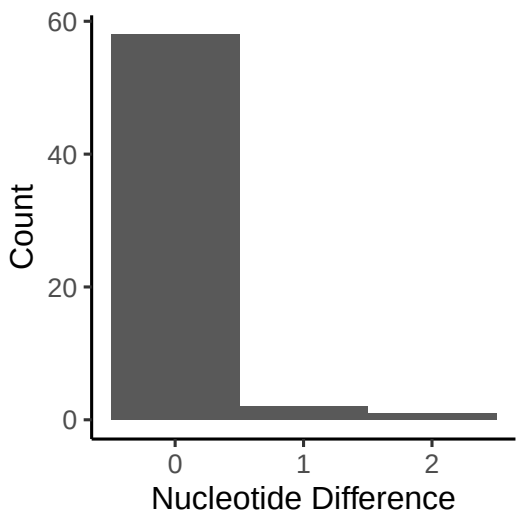
IGHV3−72*01

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



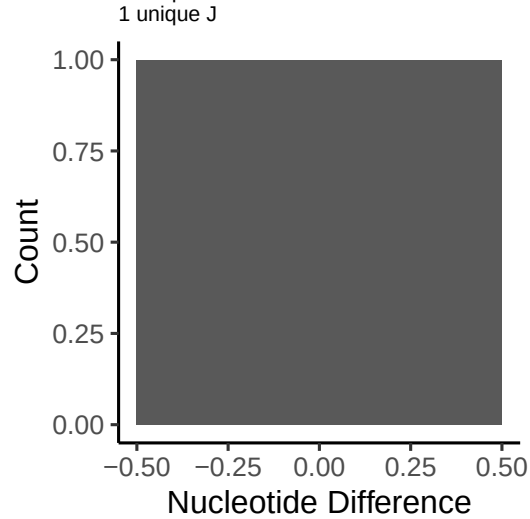
IGHV3−43D*03

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



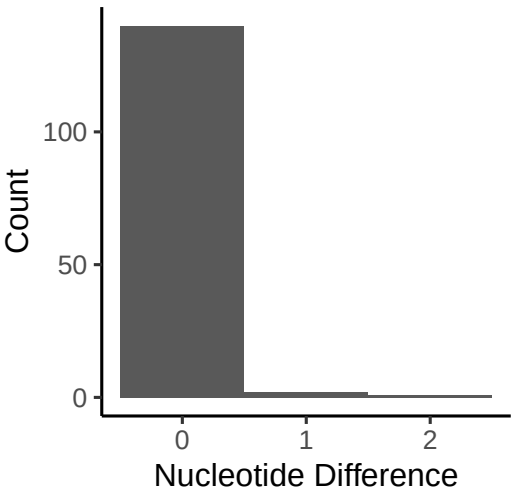
IGHV4−28*03

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



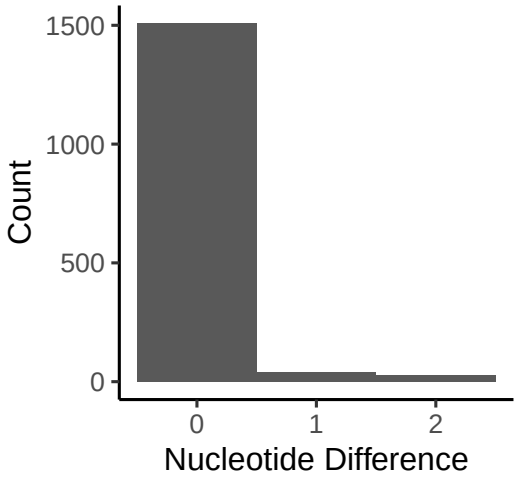
IGHV4−30−2*01

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



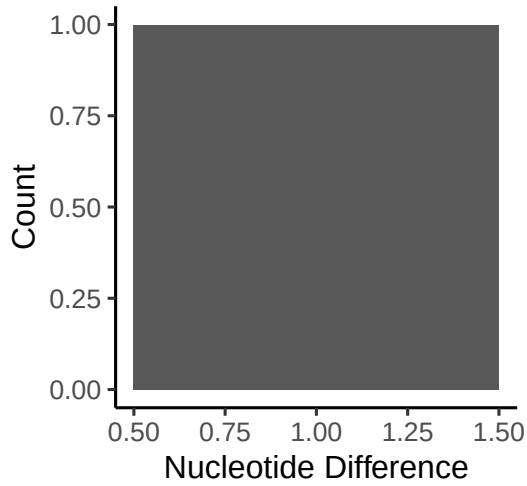
IGHV4−34*01_02

1575 sequences assigned
1508 (95.7%) exact matches, in which:
1485 unique CDR3
6 unique J



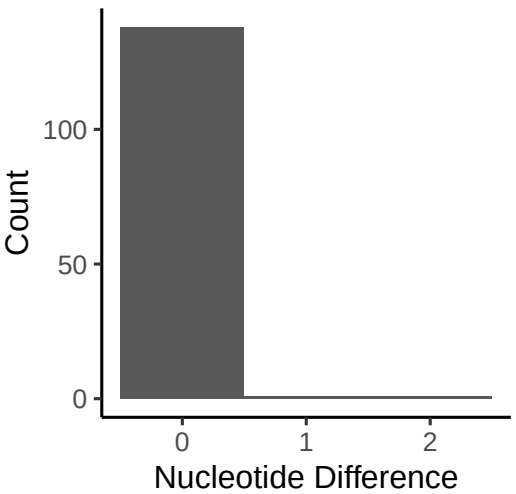
IGHV4−39*07

1 sequences assigned
No exact matches.



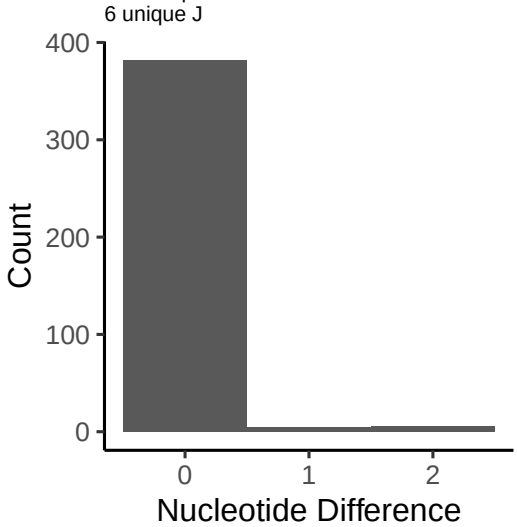
IGHV4−30−4*07

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



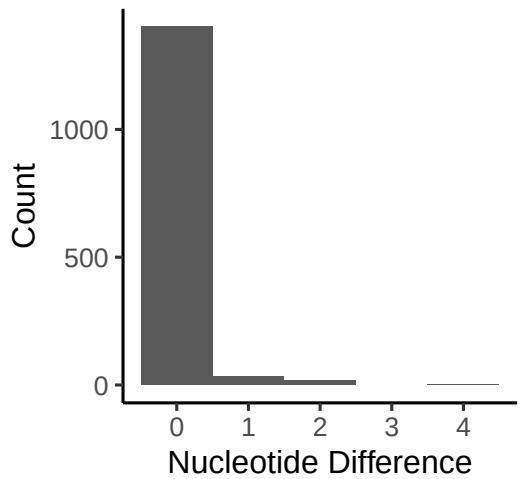
IGHV4−38−2*02

393 sequences assigned
382 (97.2%) exact matches, in which:
378 unique CDR3
6 unique J



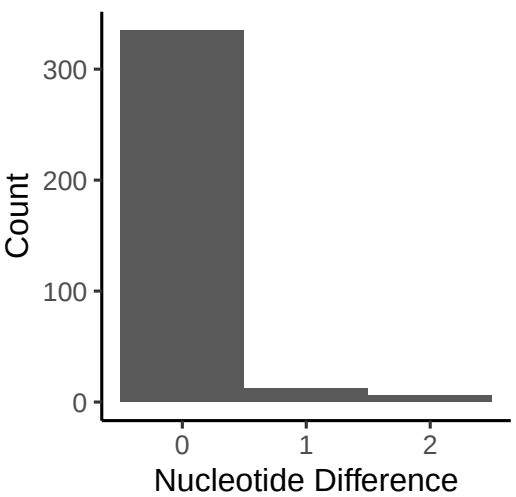
IGHV4−59*08

1452 sequences assigned
1402 (96.6%) exact matches, in which:
1389 unique CDR3
6 unique J



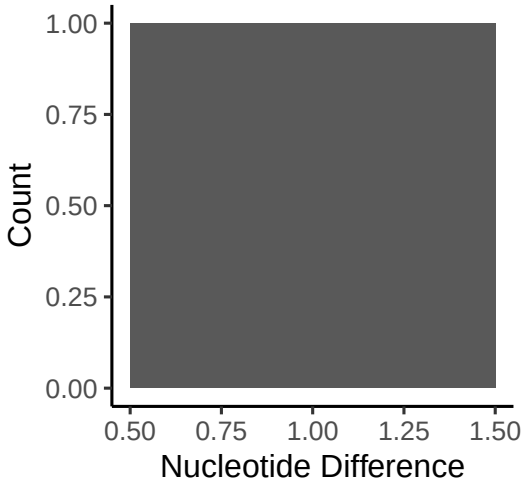
IGHV4−31*02

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



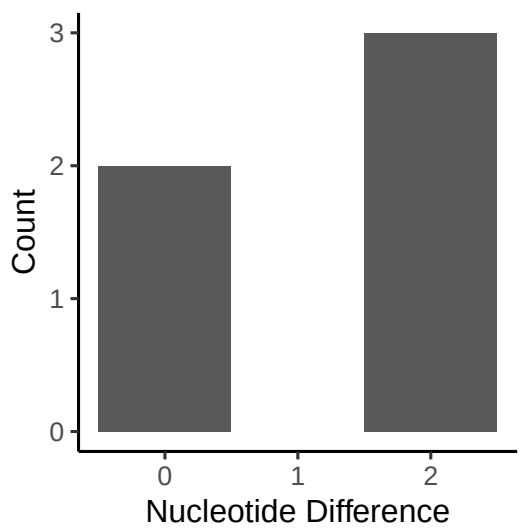
IGHV4−39*02

1 sequences assigned
No exact matches.



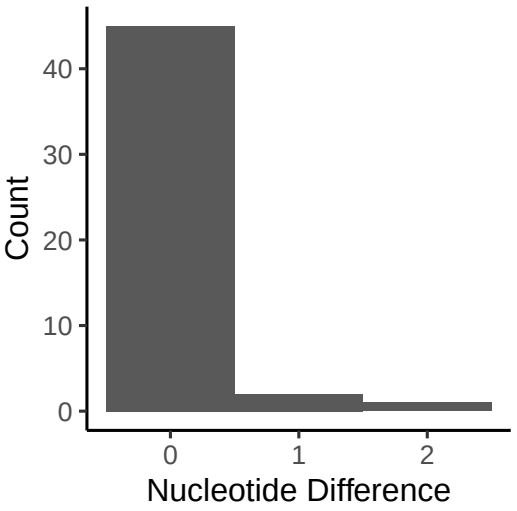
IGHV4−61*02

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



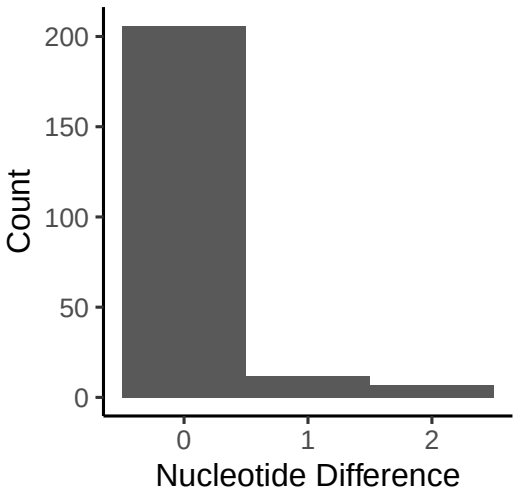
IGHV5−10−1*01_03

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



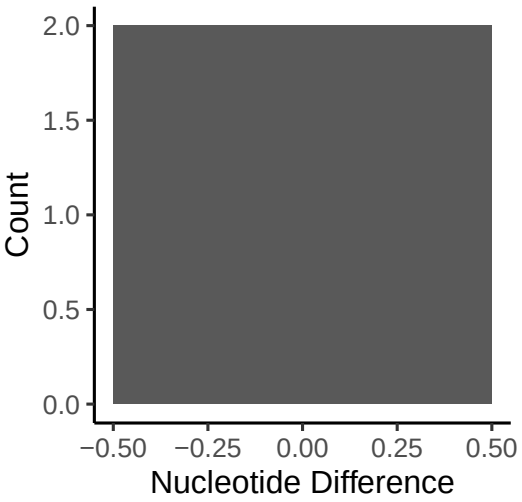
IGHV7−4−1*02

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



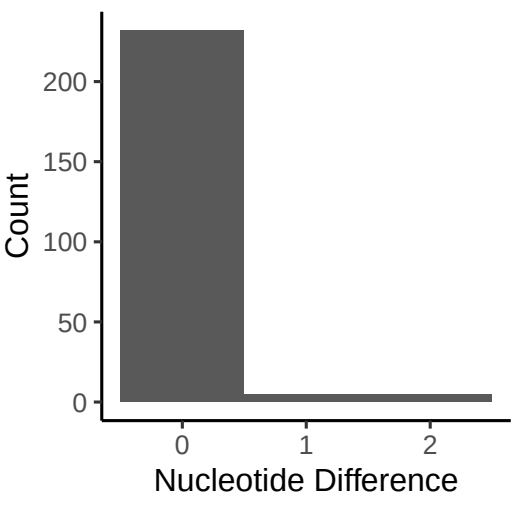
IGHV5−51*01_03

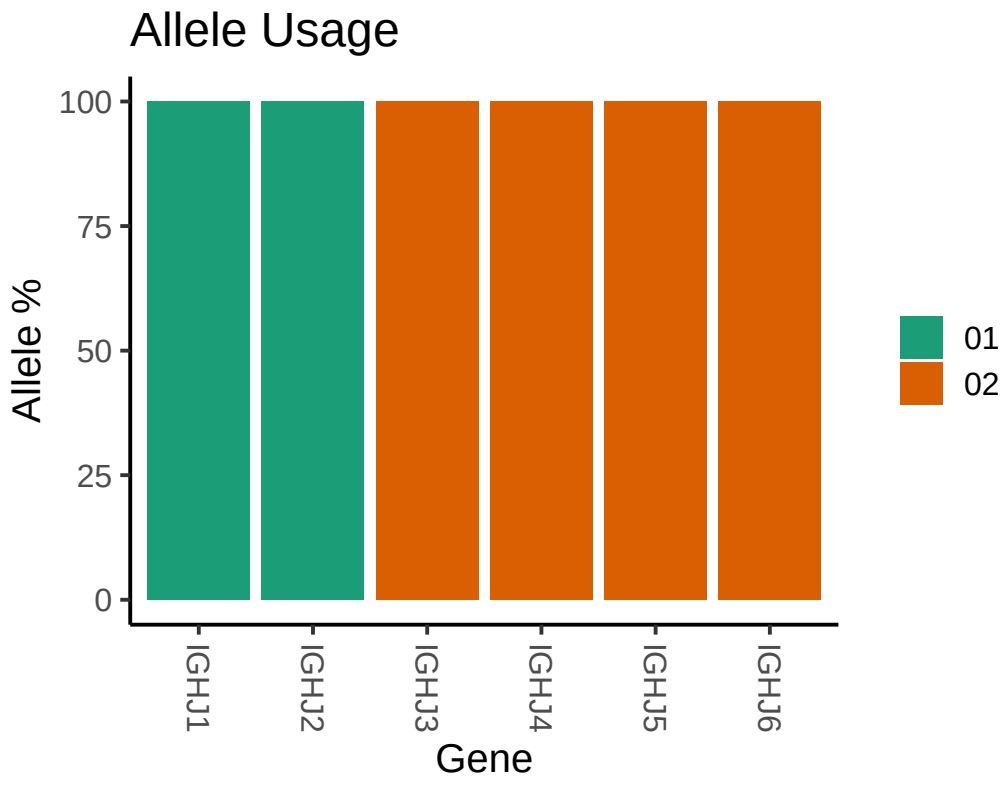
2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
2 unique J



IGHV6−1*01_02

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

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IGHJ3
IGHJ4
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