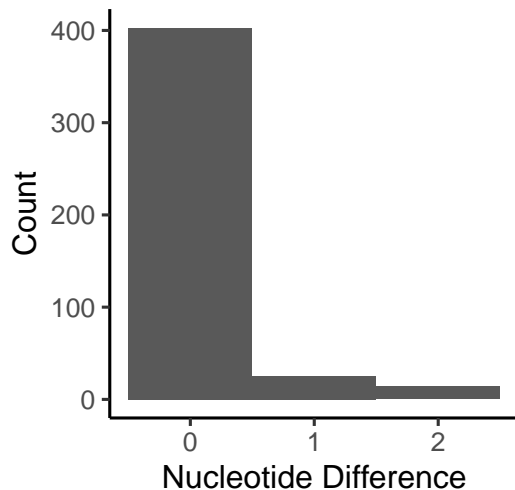


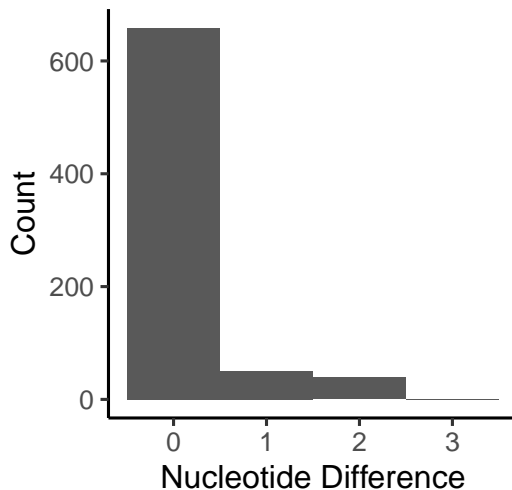
IGHV1-2*02

442 sequences assigned
403 (91.2%) exact matches, in which:
403 unique CDR3
7 unique J



IGHV1-8*01

750 sequences assigned
659 (87.9%) exact matches, in which:
659 unique CDR3
7 unique J



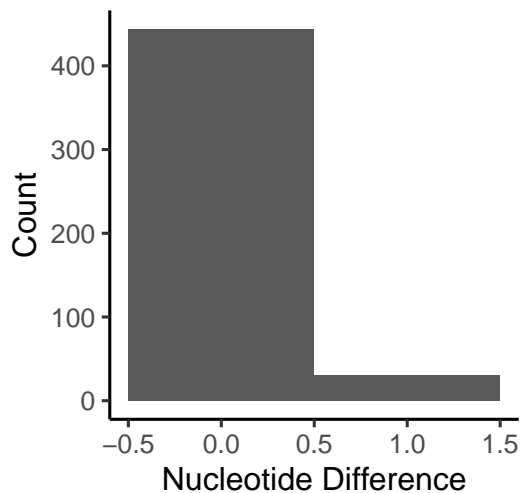
IGHV1-45*02

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



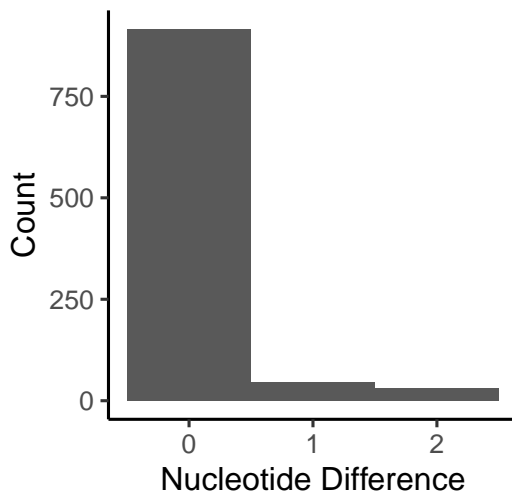
IGHV1-2*06

475 sequences assigned
444 (93.5%) exact matches, in which:
443 unique CDR3
7 unique J



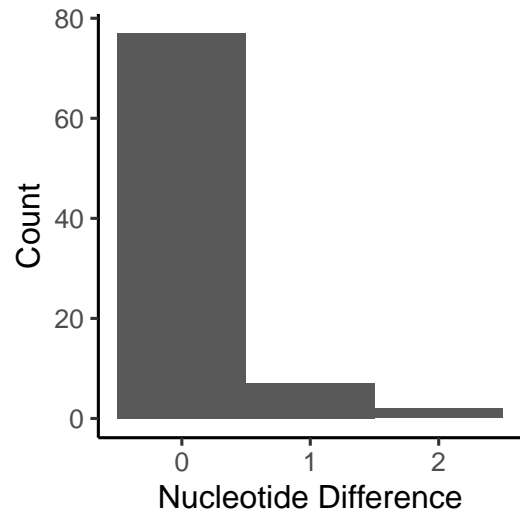
IGHV1-18*01

992 sequences assigned
916 (92.3%) exact matches, in which:
915 unique CDR3
7 unique J



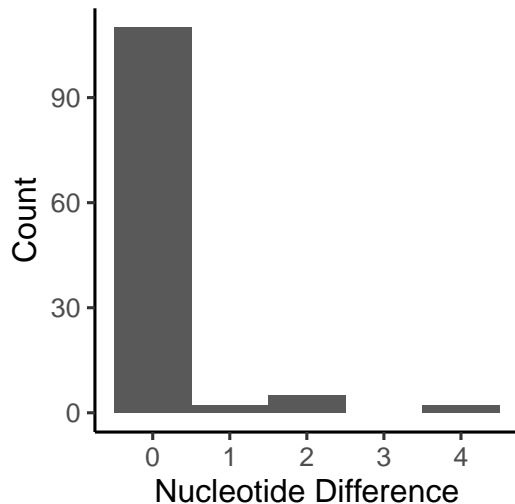
IGHV1-46*01

86 sequences assigned
77 (89.5%) exact matches, in which:
77 unique CDR3
6 unique J



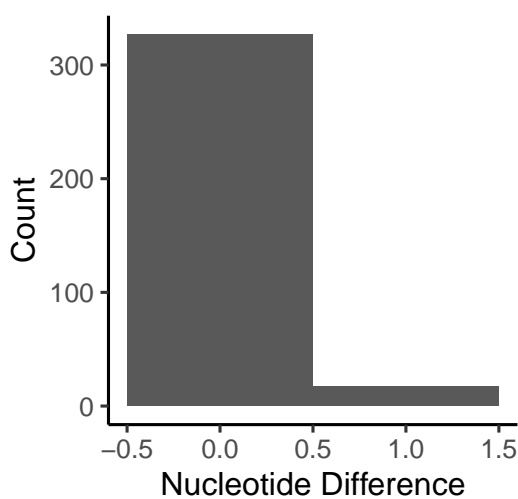
IGHV1-3*01_05

119 sequences assigned
110 (92.4%) exact matches, in which:
110 unique CDR3
6 unique J



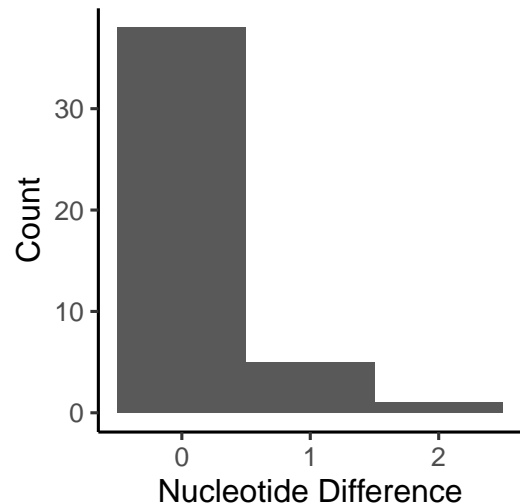
IGHV1-24*01

344 sequences assigned
327 (95.1%) exact matches, in which:
327 unique CDR3
7 unique J



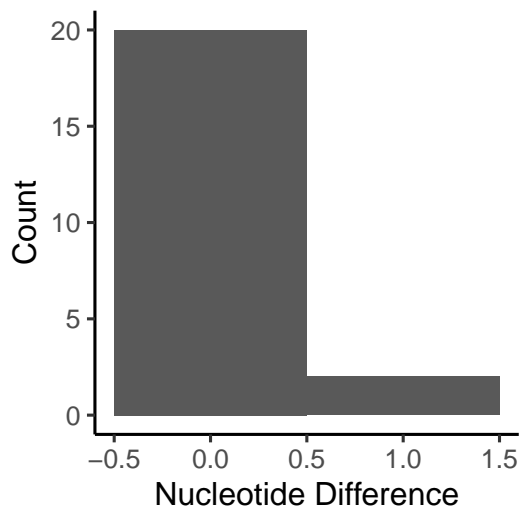
IGHV1-46*03

44 sequences assigned
38 (86.4%) exact matches, in which:
38 unique CDR3
5 unique J



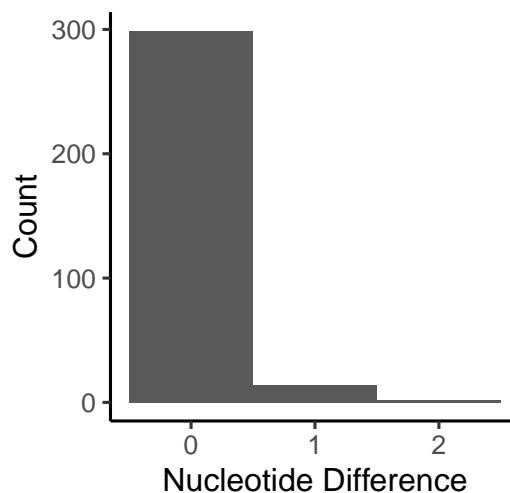
IGHV1-58*02

22 sequences assigned
20 (90.9%) exact matches, in which:
20 unique CDR3
6 unique J



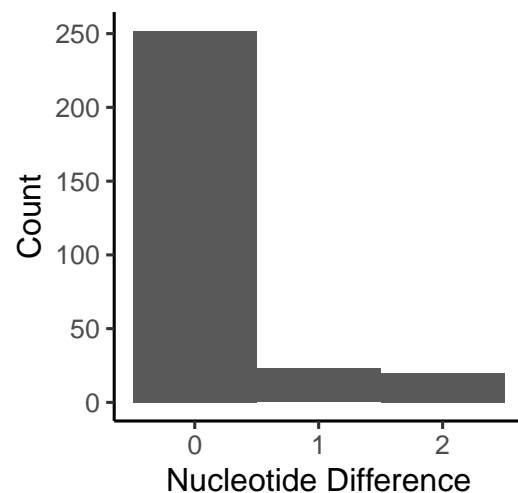
IGHV1-69*01_12_13

315 sequences assigned
299 (94.9%) exact matches, in which:
299 unique CDR3
7 unique J



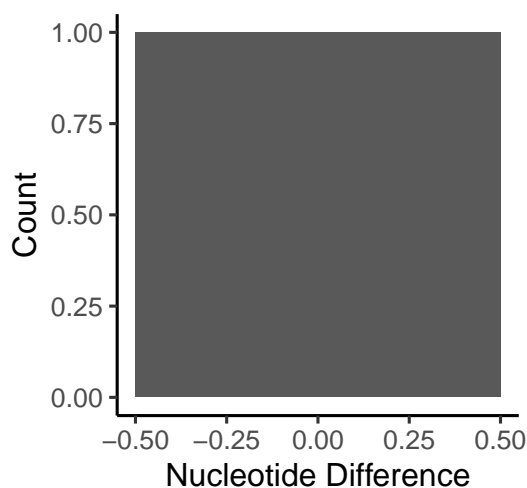
IGHV2-5*02

295 sequences assigned
252 (85.4%) exact matches, in which:
252 unique CDR3
6 unique J



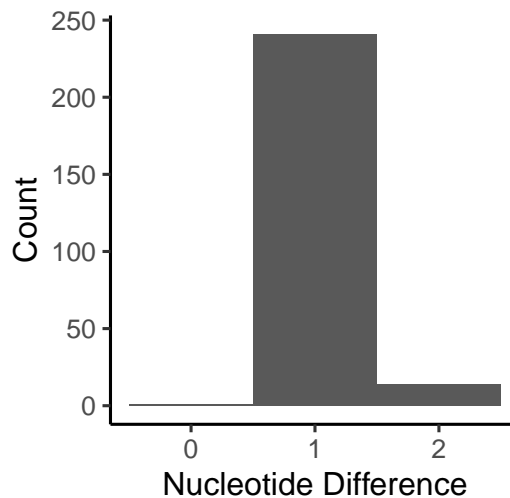
IGHV1-69-2*01

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



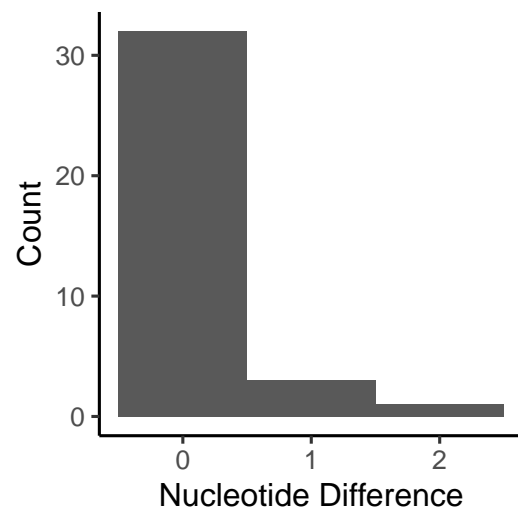
IGHV1-69*04_09

256 sequences assigned
1 (0.4%) exact matches, in which:
1 unique CDR3
1 unique J



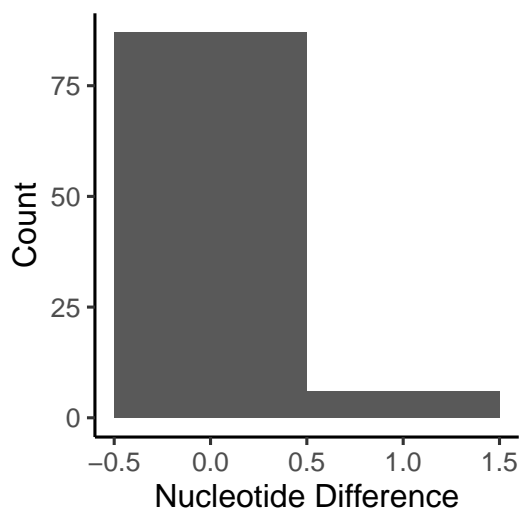
IGHV2-26*01

36 sequences assigned
32 (88.9%) exact matches, in which:
32 unique CDR3
6 unique J



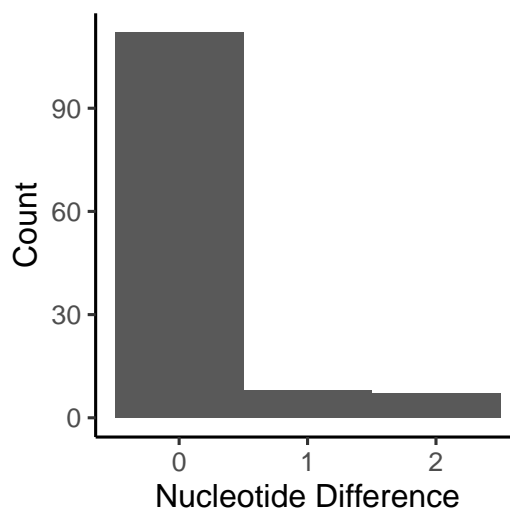
IGHV1-69*02

93 sequences assigned
87 (93.5%) exact matches, in which:
87 unique CDR3
6 unique J



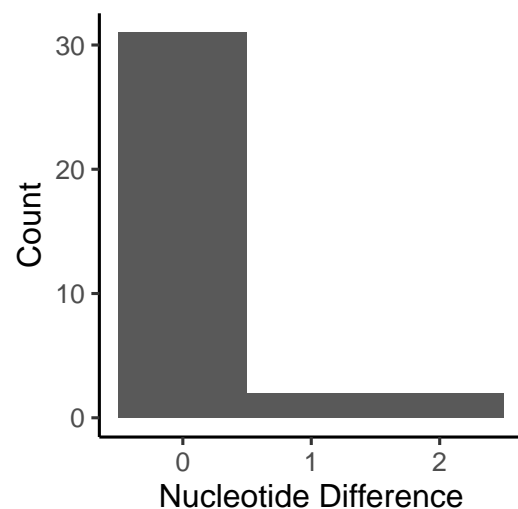
IGHV2-5*01

127 sequences assigned
112 (88.2%) exact matches, in which:
111 unique CDR3
6 unique J



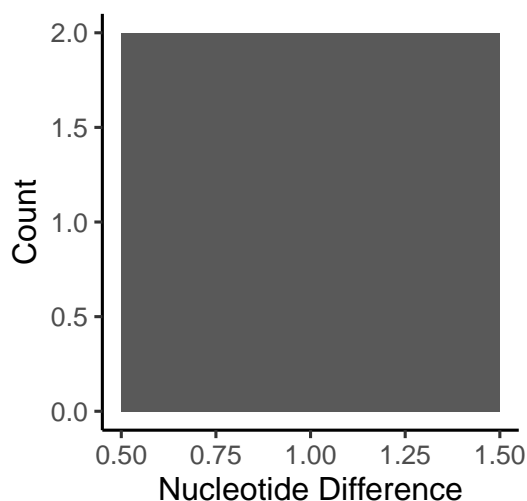
IGHV2-70*01

35 sequences assigned
31 (88.6%) exact matches, in which:
31 unique CDR3
4 unique J



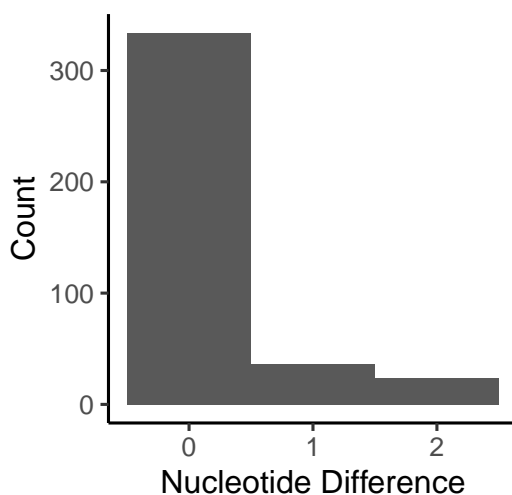
IGHV2-70D*04

2 sequences assigned
No exact matches.



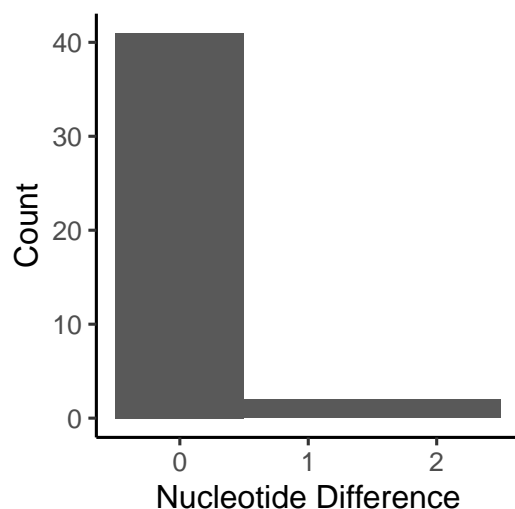
IGHV3-11*01

394 sequences assigned
334 (84.8%) exact matches, in which:
329 unique CDR3
7 unique J



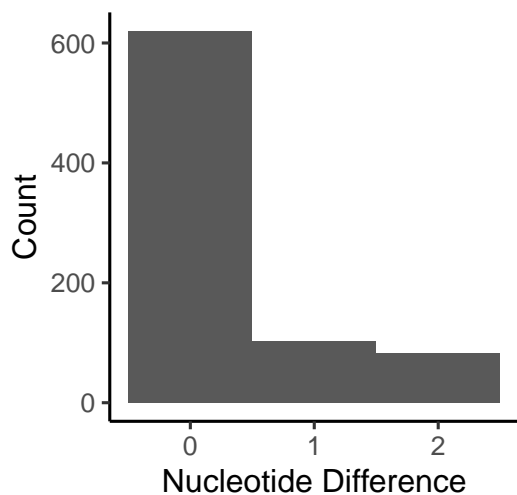
IGHV3-20*01_02

45 sequences assigned
41 (91.1%) exact matches, in which:
40 unique CDR3
6 unique J



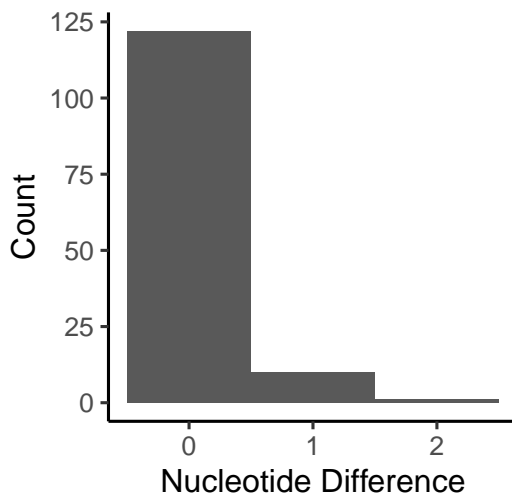
IGHV3-7*01

804 sequences assigned
620 (77.1%) exact matches, in which:
578 unique CDR3
7 unique J



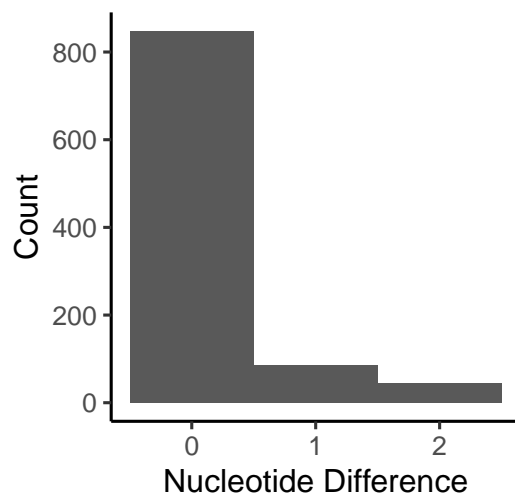
IGHV3-13*01

133 sequences assigned
122 (91.7%) exact matches, in which:
122 unique CDR3
6 unique J



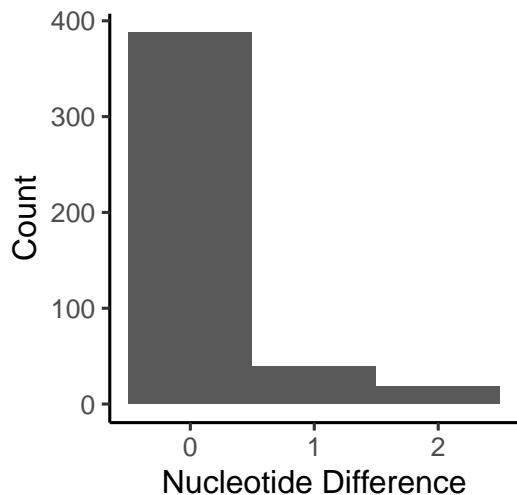
IGHV3-21*01_02

979 sequences assigned
848 (86.6%) exact matches, in which:
817 unique CDR3
7 unique J



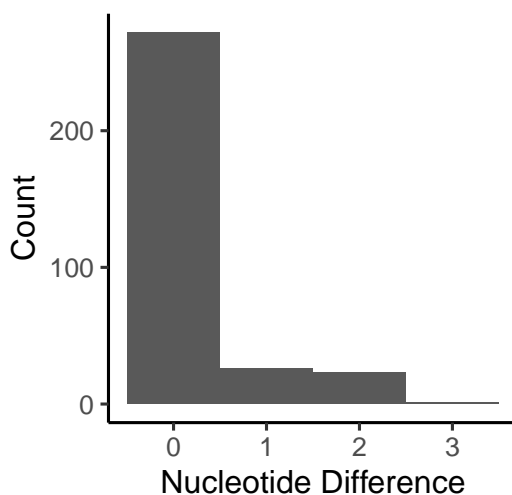
IGHV3-9*01

445 sequences assigned
388 (87.2%) exact matches, in which:
379 unique CDR3
7 unique J



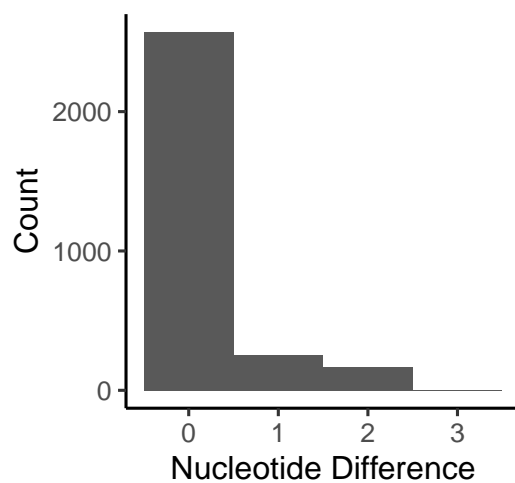
IGHV3-15*01_02

322 sequences assigned
272 (84.5%) exact matches, in which:
262 unique CDR3
7 unique J



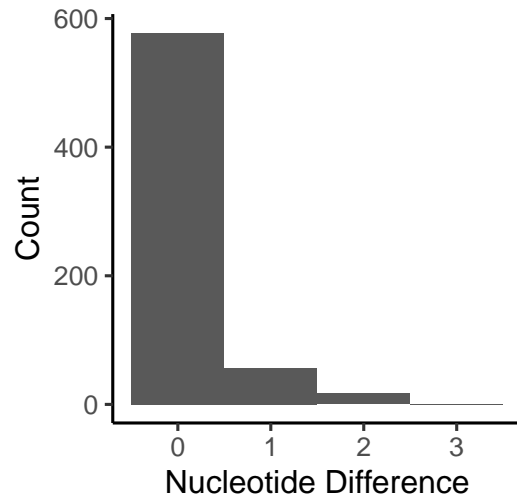
IGHV3-23*01_04

2993 sequences assigned
2571 (85.9%) exact matches, in which:
2458 unique CDR3
7 unique J



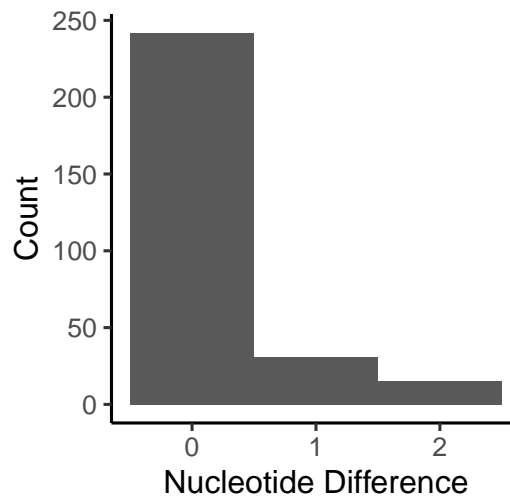
IGHV3-30-3*01

652 sequences assigned
578 (88.7%) exact matches, in which:
568 unique CDR3
7 unique J



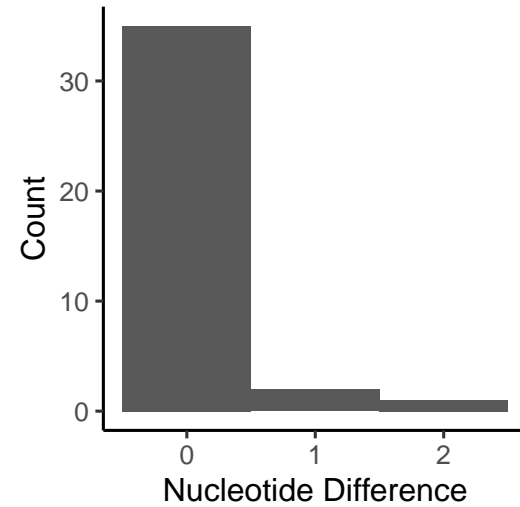
IGHV3-48*01

288 sequences assigned
242 (84%) exact matches, in which:
230 unique CDR3
6 unique J



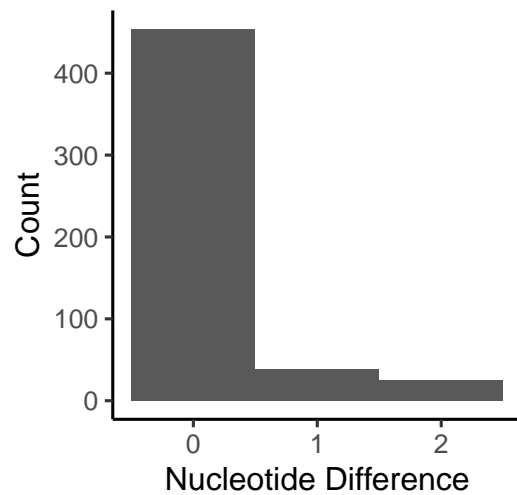
IGHV3-49*03_05

38 sequences assigned
35 (92.1%) exact matches, in which:
35 unique CDR3
5 unique J



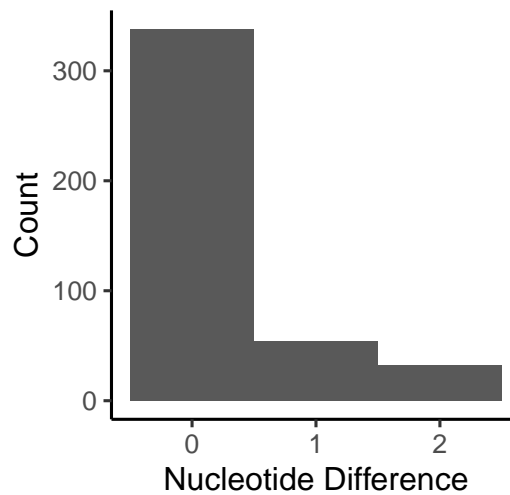
IGHV3-33*01

517 sequences assigned
454 (87.8%) exact matches, in which:
450 unique CDR3
7 unique J



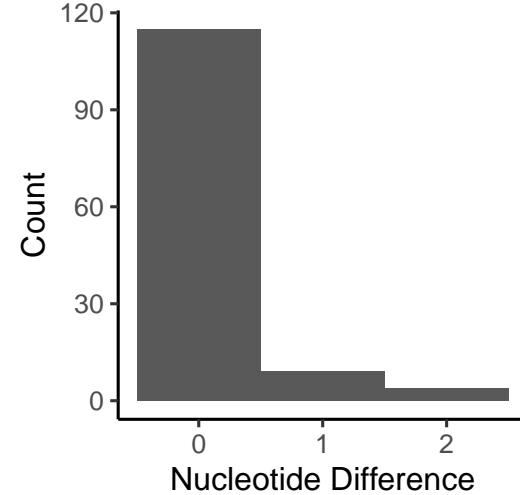
IGHV3-48*03

424 sequences assigned
338 (79.7%) exact matches, in which:
318 unique CDR3
6 unique J



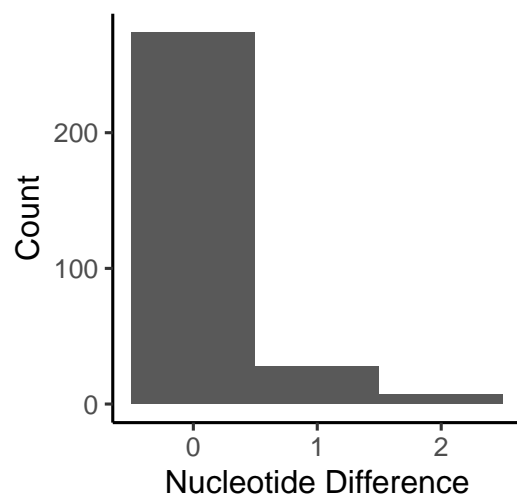
IGHV3-53*04

128 sequences assigned
115 (89.8%) exact matches, in which:
111 unique CDR3
5 unique J



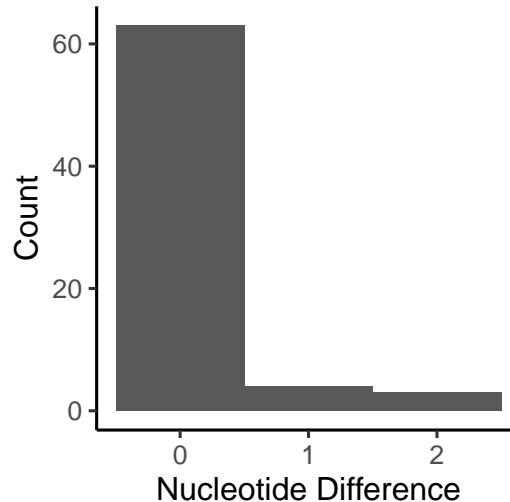
IGHV3-43*02

309 sequences assigned
274 (88.7%) exact matches, in which:
264 unique CDR3
7 unique J



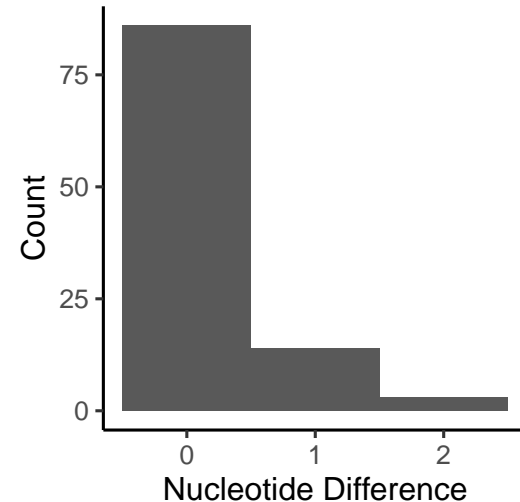
IGHV3-49*04

70 sequences assigned
63 (90%) exact matches, in which:
61 unique CDR3
5 unique J



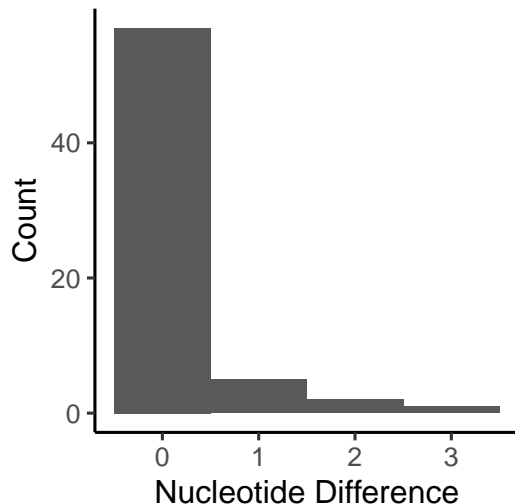
IGHV3-53*01_02

103 sequences assigned
86 (83.5%) exact matches, in which:
84 unique CDR3
6 unique J



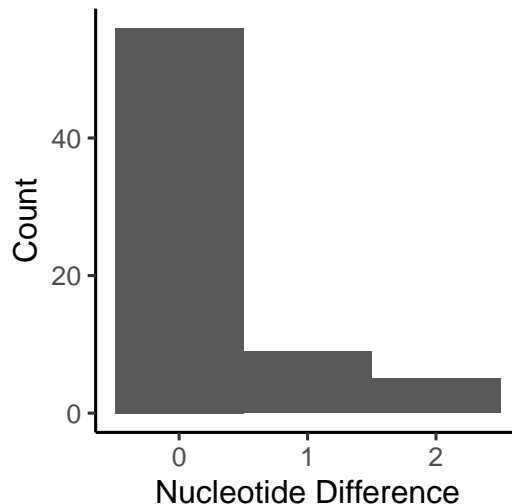
IGHV3-64*01

65 sequences assigned
57 (87.7%) exact matches, in which:
56 unique CDR3
5 unique J



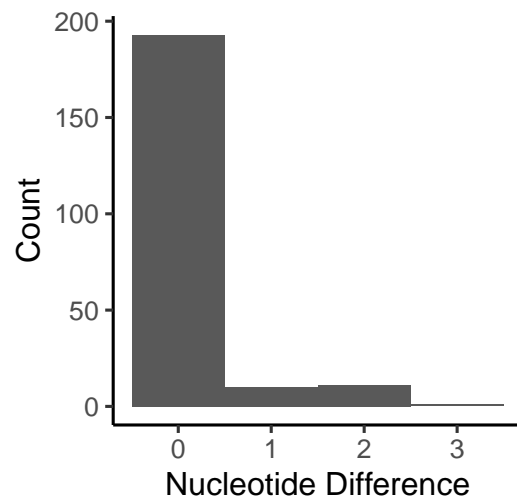
IGHV3-73*01_02

70 sequences assigned
56 (80%) exact matches, in which:
53 unique CDR3
6 unique J



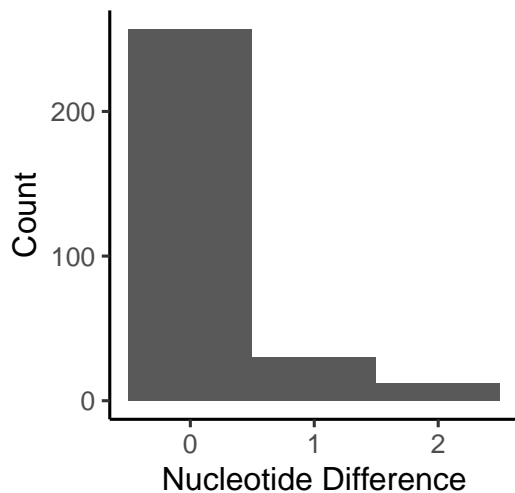
IGHV4-4*02_03

215 sequences assigned
193 (89.8%) exact matches, in which:
190 unique CDR3
5 unique J



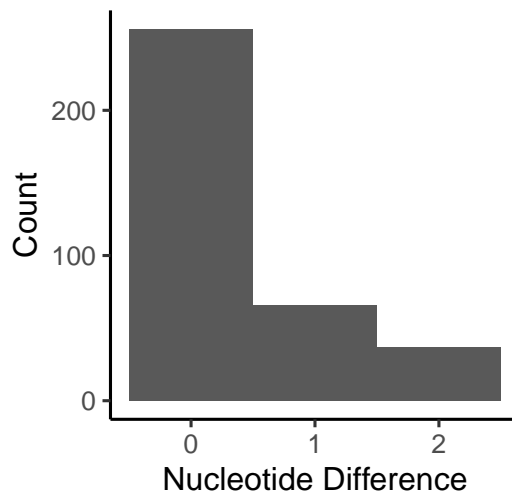
IGHV3-66*02

299 sequences assigned
257 (86%) exact matches, in which:
250 unique CDR3
6 unique J



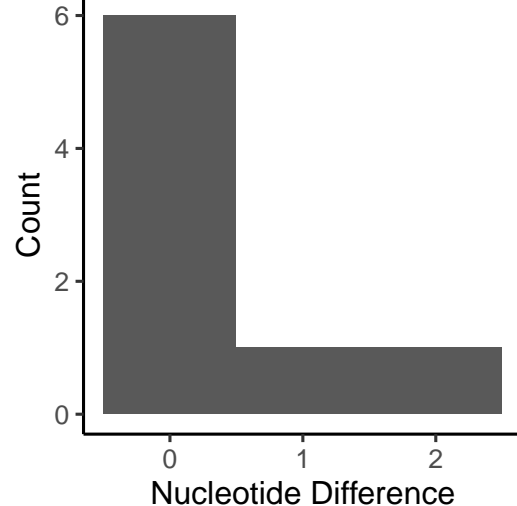
IGHV3-74*01_02

359 sequences assigned
256 (71.3%) exact matches, in which:
243 unique CDR3
7 unique J



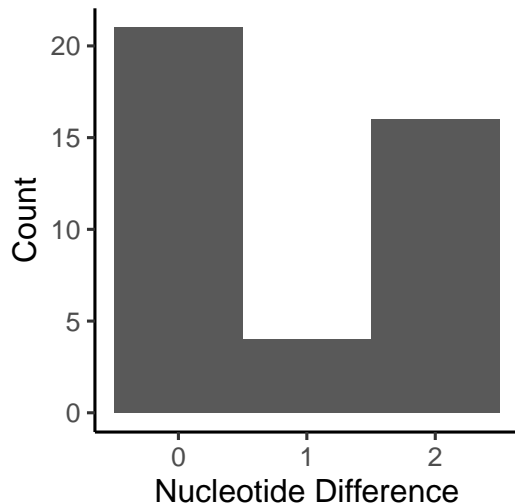
IGHV4-28*01_07

8 sequences assigned
6 (75%) exact matches, in which:
6 unique CDR3
3 unique J



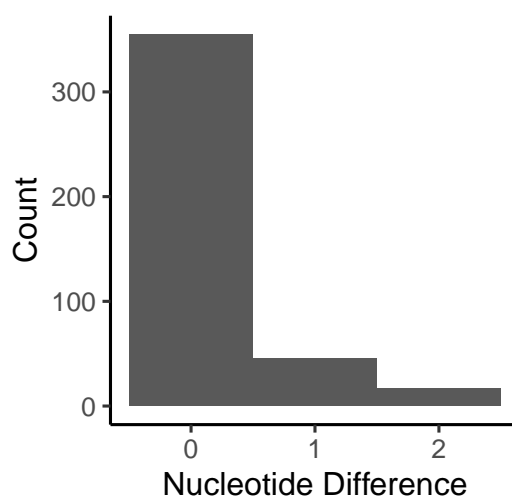
IGHV3-72*01

41 sequences assigned
21 (51.2%) exact matches, in which:
19 unique CDR3
5 unique J



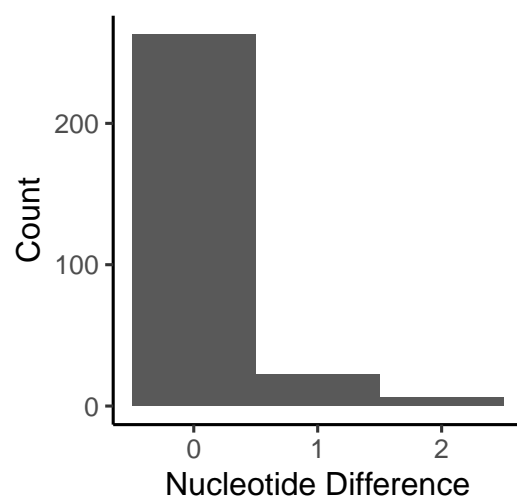
IGHV4-4*07

417 sequences assigned
355 (85.1%) exact matches, in which:
344 unique CDR3
6 unique J



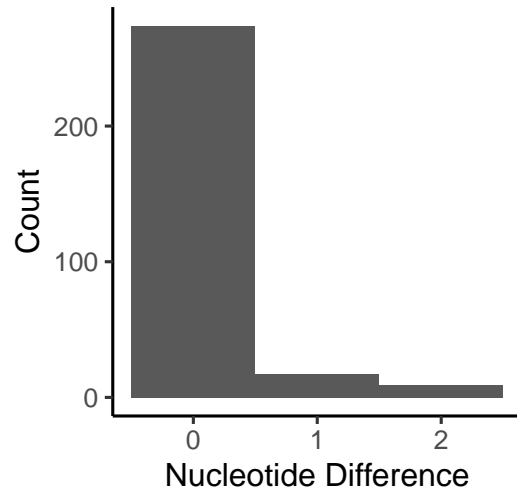
IGHV4-30-2*01

291 sequences assigned
263 (90.4%) exact matches, in which:
261 unique CDR3
7 unique J



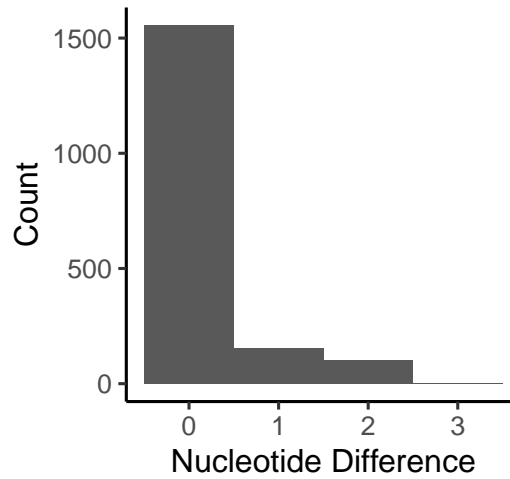
IGHV4-30-4*01

300 sequences assigned
274 (91.3%) exact matches, in which:
266 unique CDR3
7 unique J



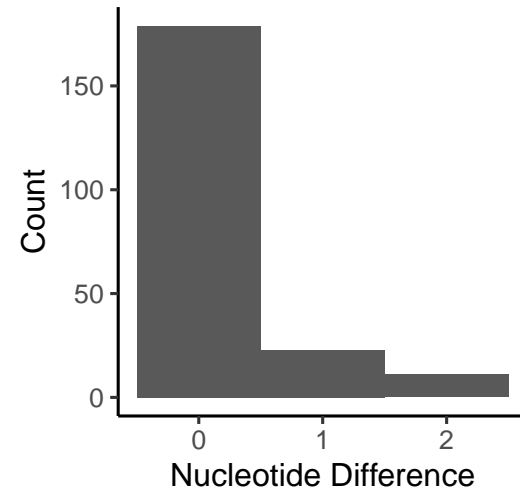
IGHV4-39*02_C258G

1812 sequences assigned
1555 (85.8%) exact matches, in which:
1504 unique CDR3
7 unique J



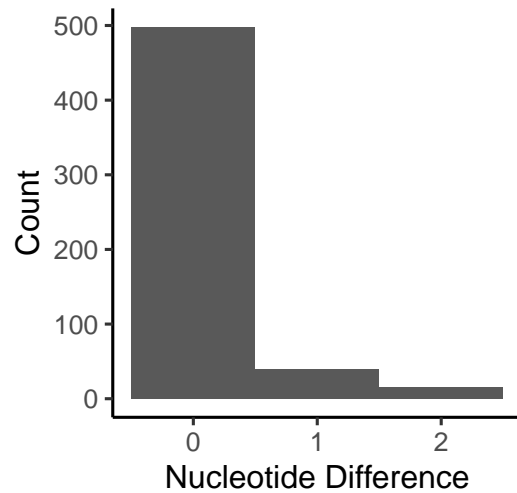
IGHV5-51*07_A128G

213 sequences assigned
179 (84%) exact matches, in which:
179 unique CDR3
7 unique J



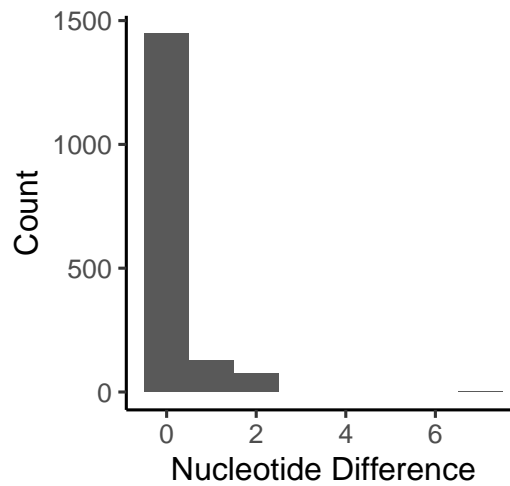
IGHV4-31*02

553 sequences assigned
498 (90.1%) exact matches, in which:
493 unique CDR3
7 unique J



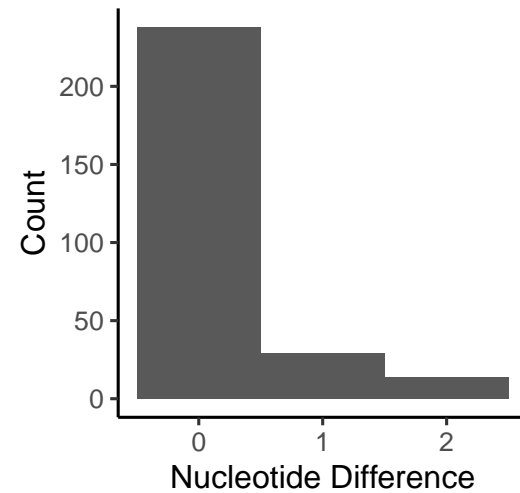
IGHV4-59*02_G88A

1650 sequences assigned
1447 (87.7%) exact matches, in which:
1423 unique CDR3
7 unique J



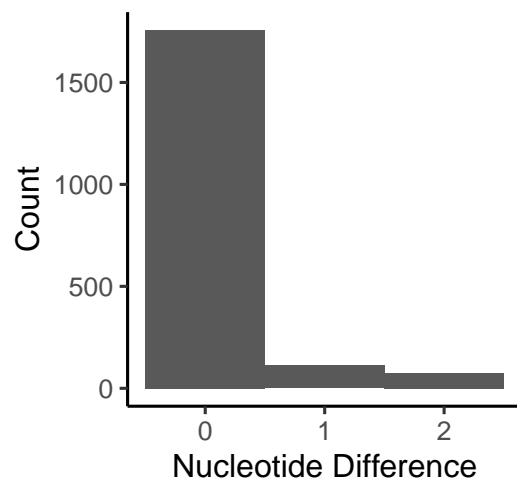
IGHV6-1*01_02

281 sequences assigned
238 (84.7%) exact matches, in which:
237 unique CDR3
6 unique J



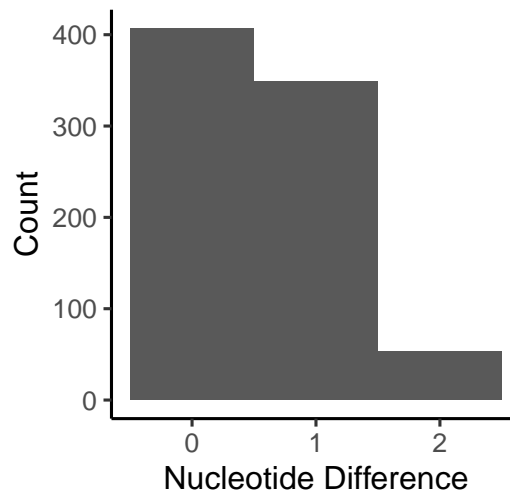
IGHV4-34*01_02

1943 sequences assigned
1757 (90.4%) exact matches, in which:
1739 unique CDR3
7 unique J



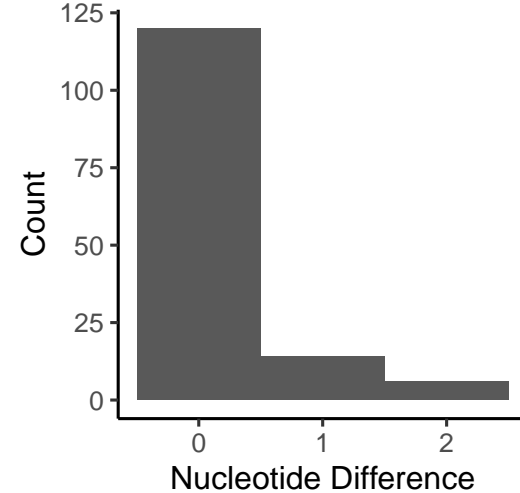
IGHV4-61*02

809 sequences assigned
407 (50.3%) exact matches, in which:
391 unique CDR3
6 unique J

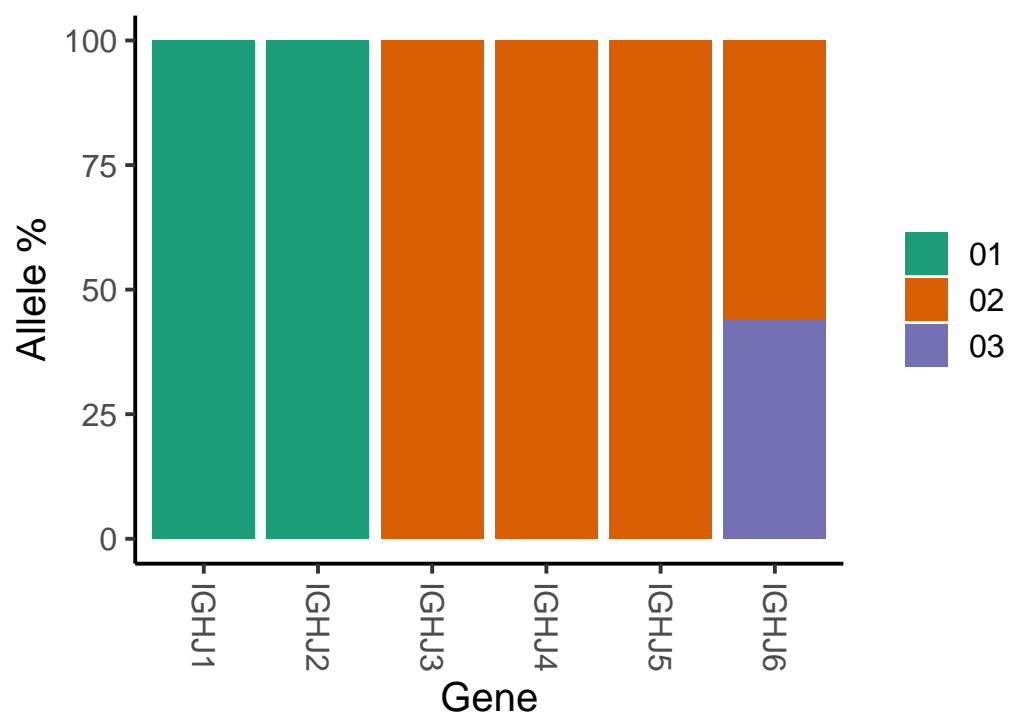


IGHV7-4-1*02

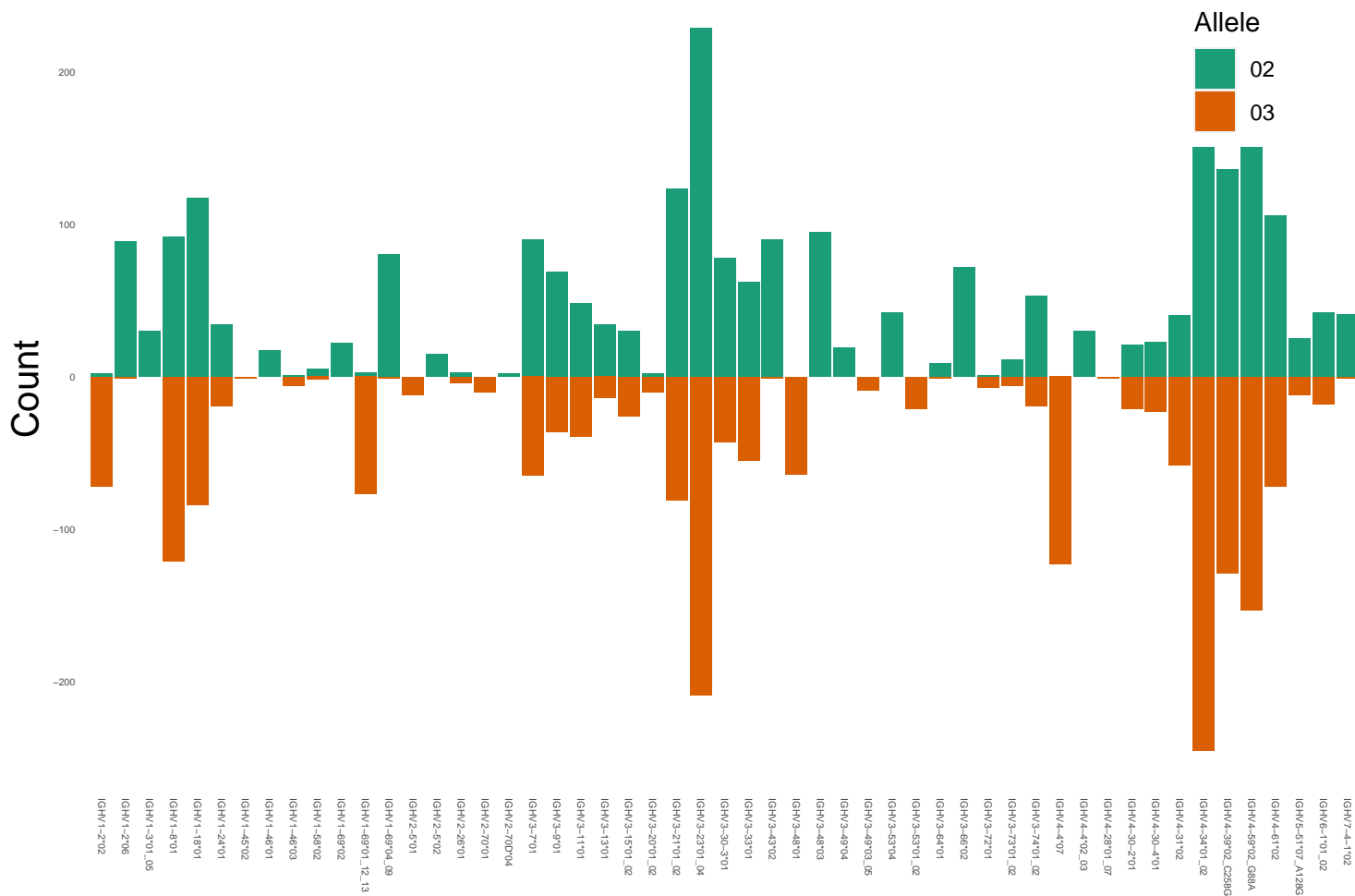
140 sequences assigned
120 (85.7%) exact matches, in which:
120 unique CDR3
7 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.