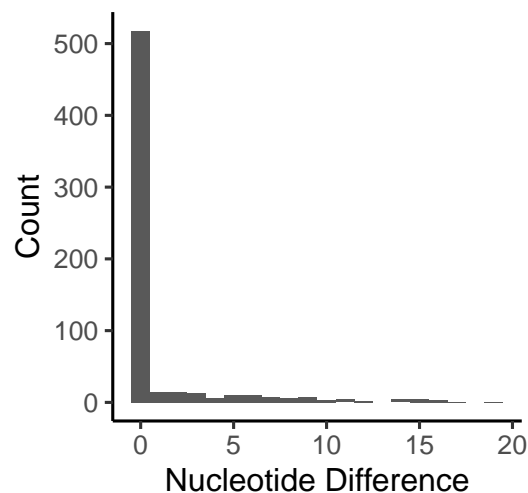


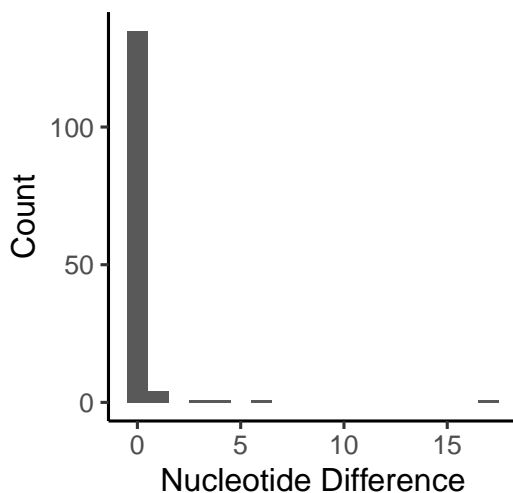
IGHV1-2*02

636 sequences assigned
518 (81.4%) exact matches, in which:
518 unique CDR3
6 unique J



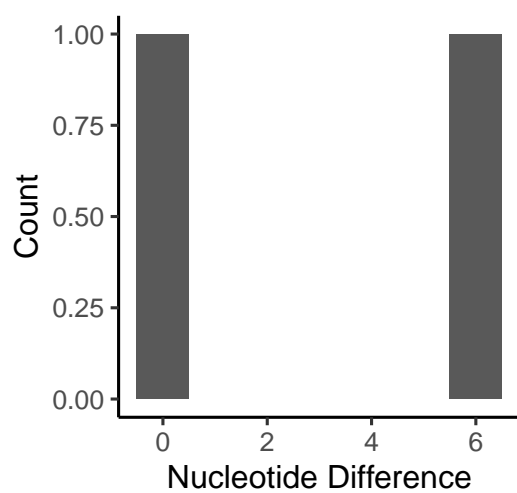
IGHV1-24*01

143 sequences assigned
135 (94.4%) exact matches, in which:
135 unique CDR3
6 unique J



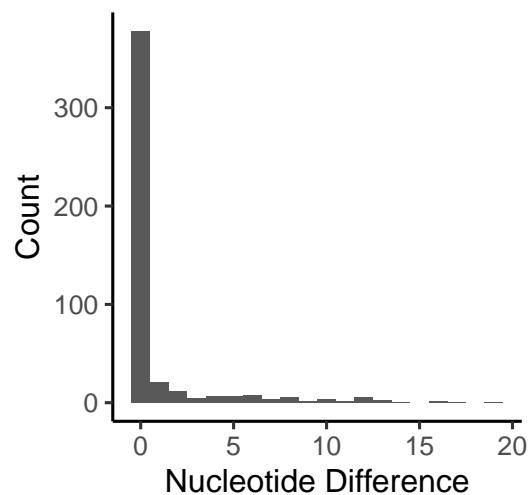
IGHV1-69-2*01

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



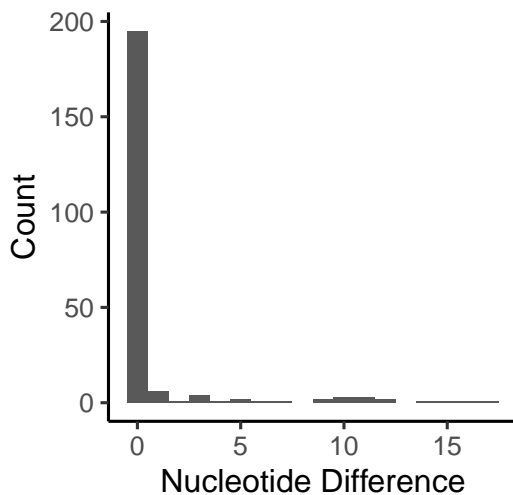
IGHV1-8*01

470 sequences assigned
378 (80.4%) exact matches, in which:
378 unique CDR3
6 unique J



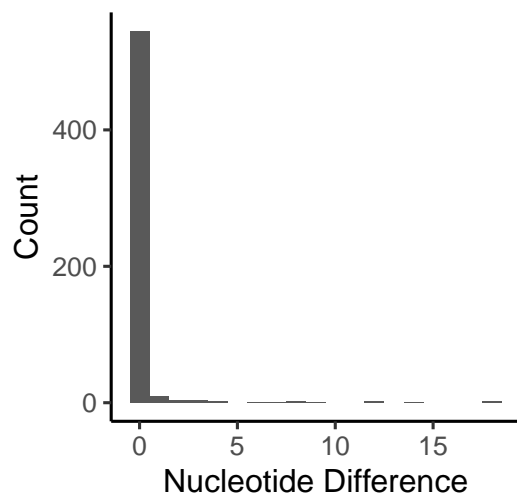
IGHV1-46*01

227 sequences assigned
195 (85.9%) exact matches, in which:
195 unique CDR3
6 unique J



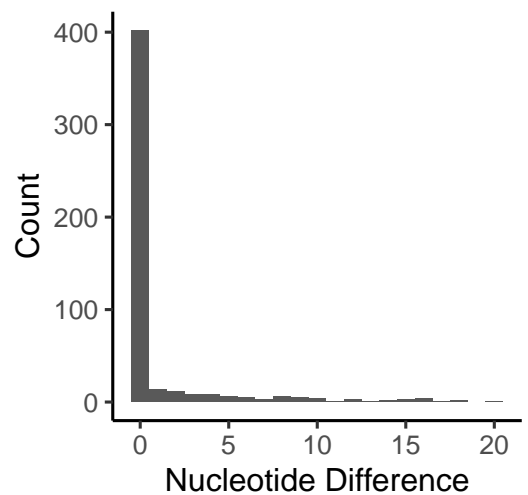
IGHV1-69*01_12_13

574 sequences assigned
545 (94.9%) exact matches, in which:
545 unique CDR3
6 unique J



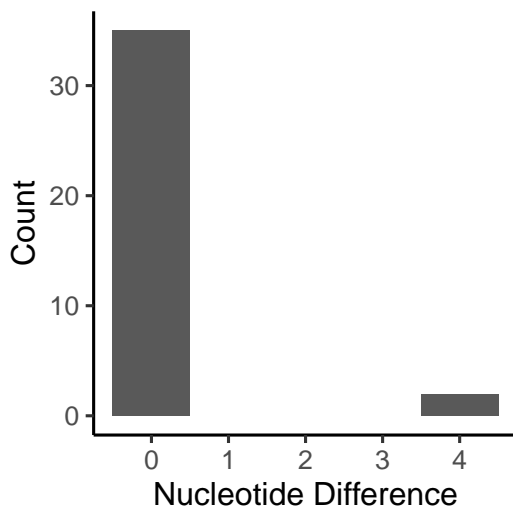
IGHV1-18*01

495 sequences assigned
402 (81.2%) exact matches, in which:
402 unique CDR3
6 unique J



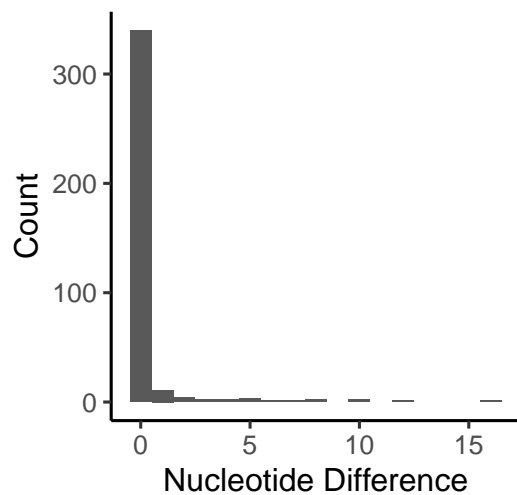
IGHV1-58*01_03

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



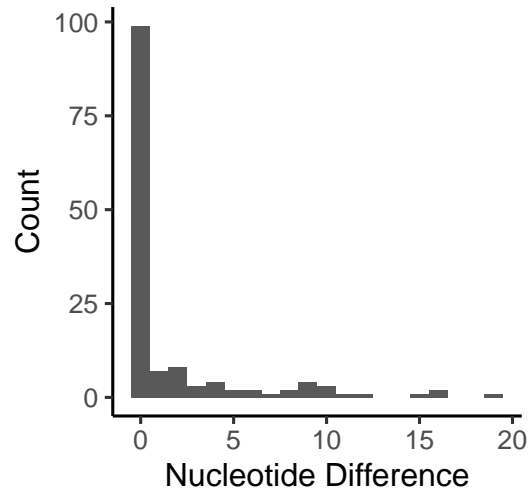
IGHV1-69*06_14

373 sequences assigned
340 (91.2%) exact matches, in which:
340 unique CDR3
6 unique J



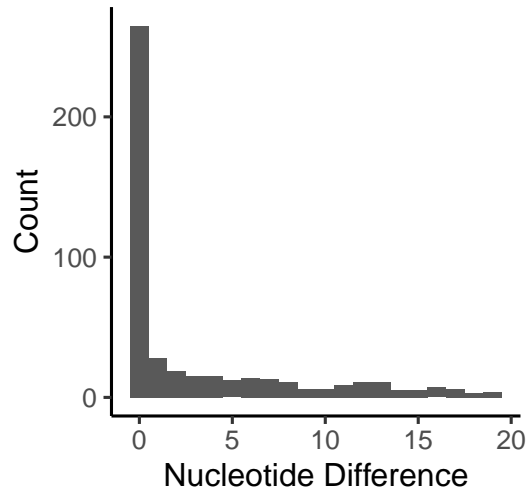
IGHV2-5*01

151 sequences assigned
99 (65.6%) exact matches, in which:
99 unique CDR3
6 unique J



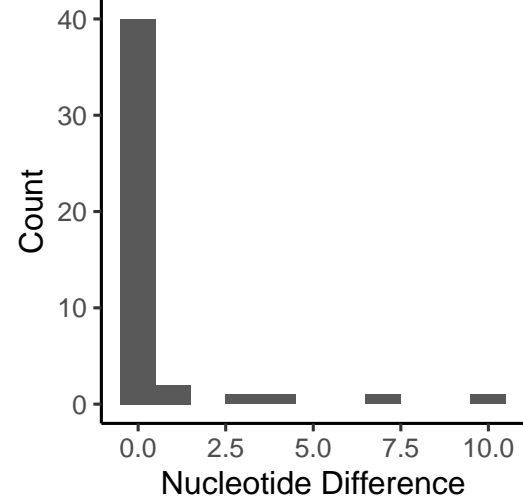
IGHV3-7*01

469 sequences assigned
265 (56.5%) exact matches, in which:
258 unique CDR3
6 unique J



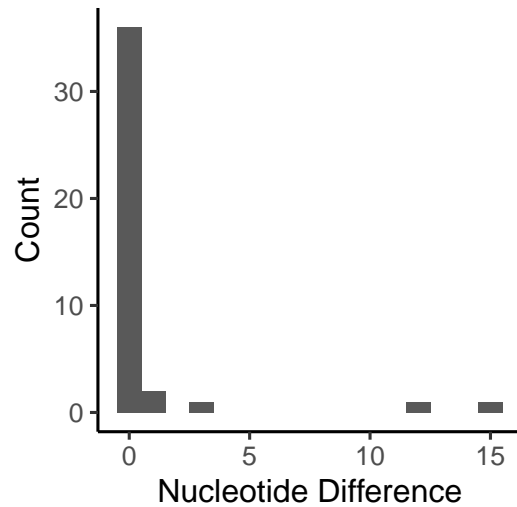
IGHV3-13*01

46 sequences assigned
40 (87%) exact matches, in which:
39 unique CDR3
5 unique J



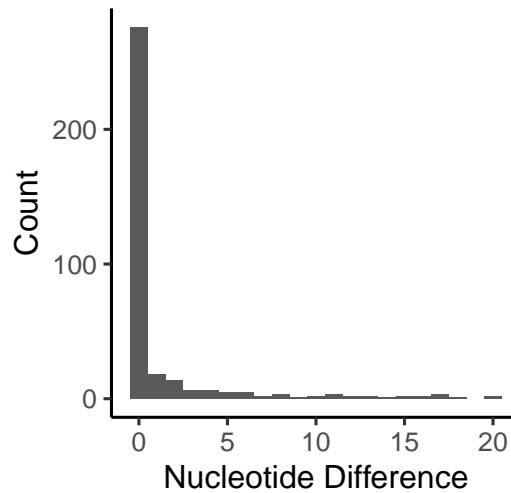
IGHV2-26*01

42 sequences assigned
36 (85.7%) exact matches, in which:
36 unique CDR3
5 unique J



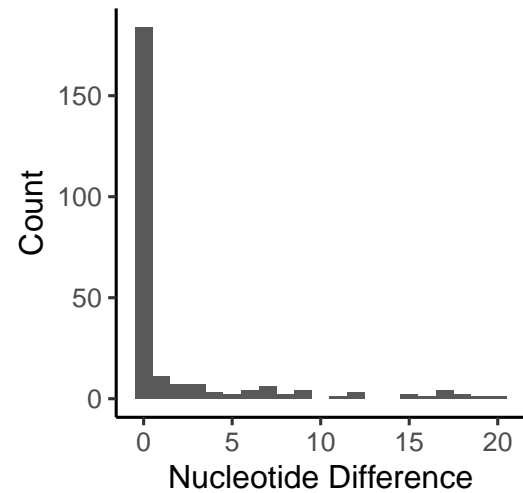
IGHV3-9*01

360 sequences assigned
276 (76.7%) exact matches, in which:
271 unique CDR3
6 unique J



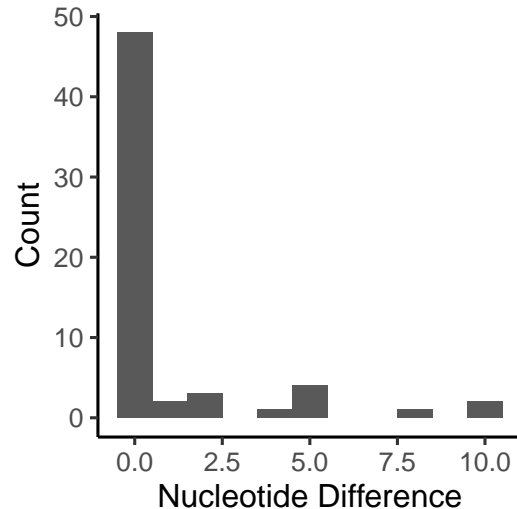
IGHV3-15*01_02

252 sequences assigned
184 (73%) exact matches, in which:
183 unique CDR3
6 unique J



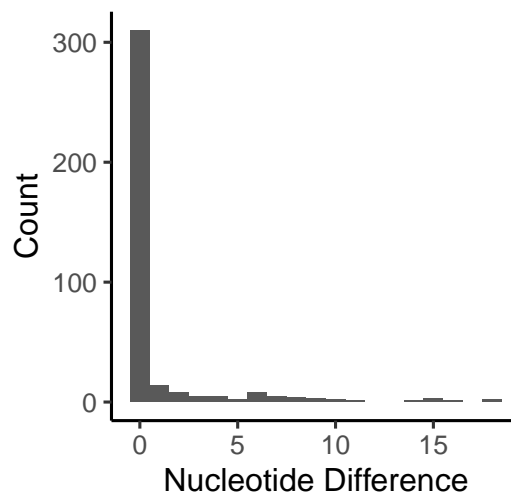
IGHV2-70*01

61 sequences assigned
48 (78.7%) exact matches, in which:
48 unique CDR3
5 unique J



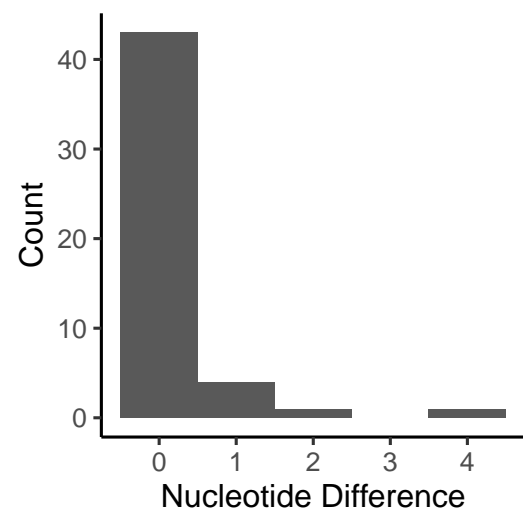
IGHV3-11*01

375 sequences assigned
310 (82.7%) exact matches, in which:
306 unique CDR3
6 unique J



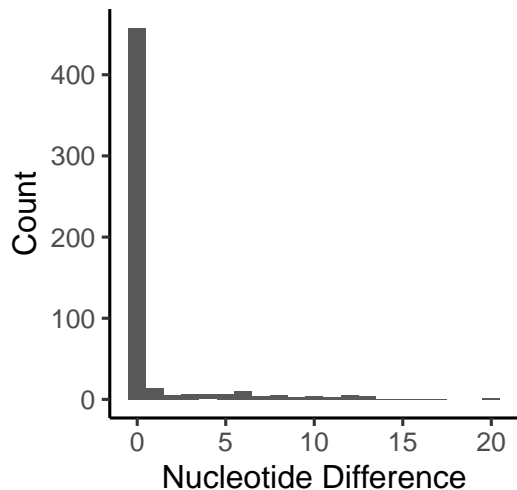
IGHV3-20*01_02

51 sequences assigned
43 (84.3%) exact matches, in which:
43 unique CDR3
5 unique J



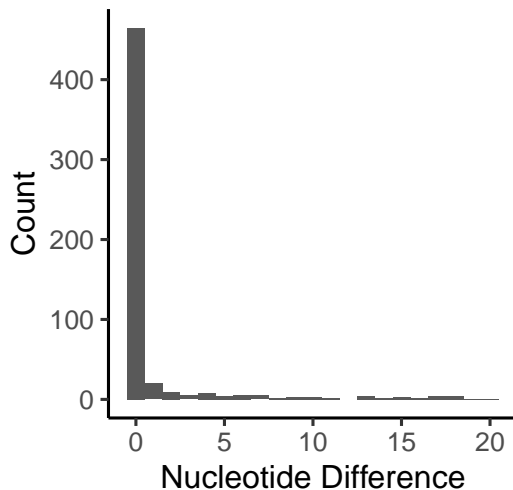
IGHV3-21*01_02

546 sequences assigned
458 (83.9%) exact matches, in which:
448 unique CDR3
6 unique J



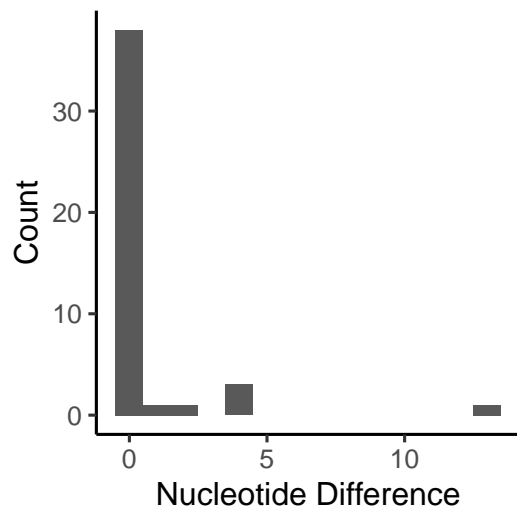
IGHV3-33*01

561 sequences assigned
465 (82.9%) exact matches, in which:
455 unique CDR3
6 unique J



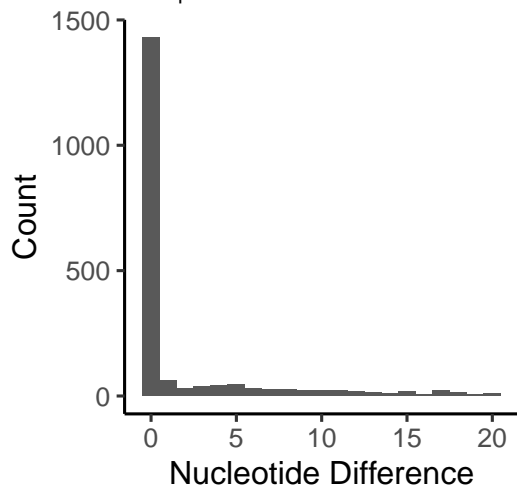
IGHV3-49*03_05

45 sequences assigned
38 (84.4%) exact matches, in which:
37 unique CDR3
4 unique J



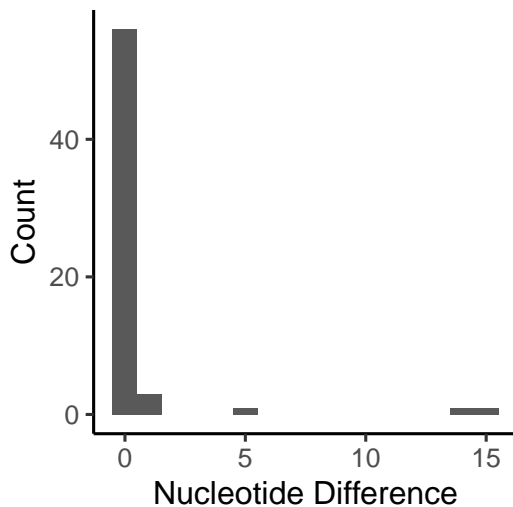
IGHV3-23*01_04

1928 sequences assigned
1429 (74.1%) exact matches, in which:
1388 unique CDR3
6 unique J



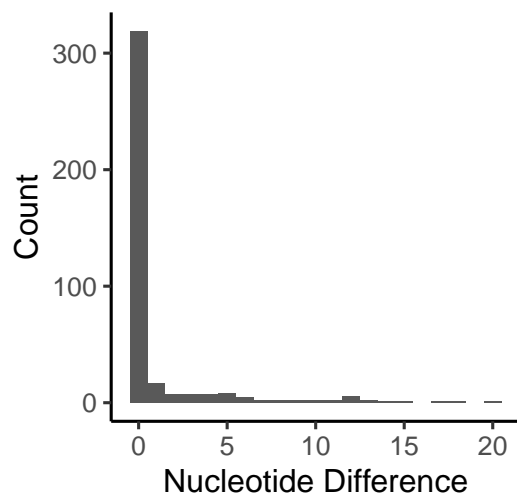
IGHV3-43*01

62 sequences assigned
56 (90.3%) exact matches, in which:
56 unique CDR3
6 unique J



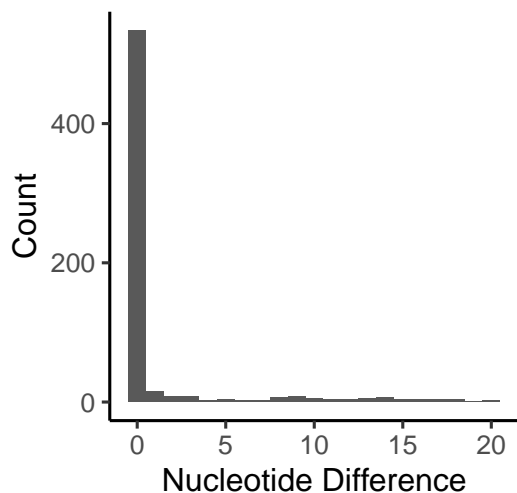
IGHV3-53*01_02

393 sequences assigned
319 (81.2%) exact matches, in which:
311 unique CDR3
6 unique J



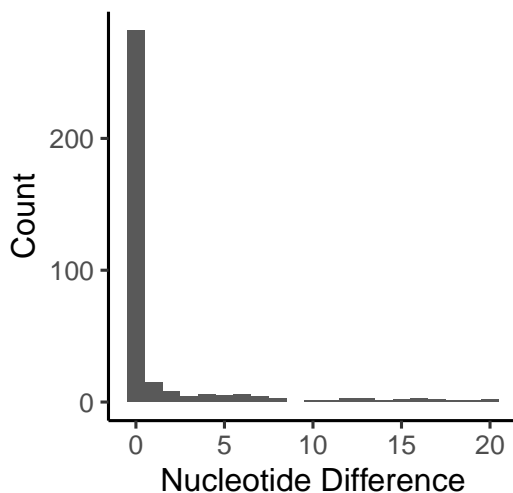
IGHV3-30-3*01

642 sequences assigned
534 (83.2%) exact matches, in which:
528 unique CDR3
6 unique J



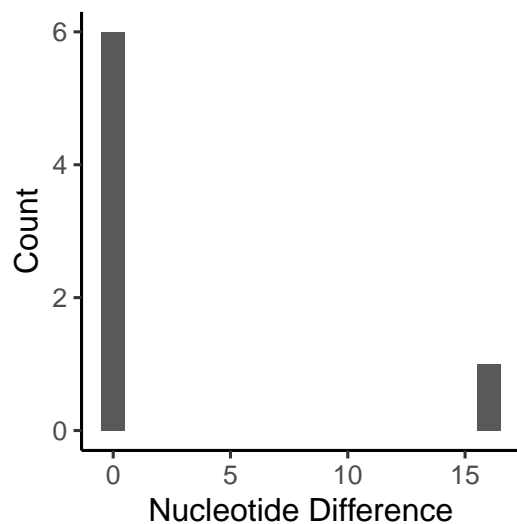
IGHV3-48*02

362 sequences assigned
282 (77.9%) exact matches, in which:
277 unique CDR3
6 unique J



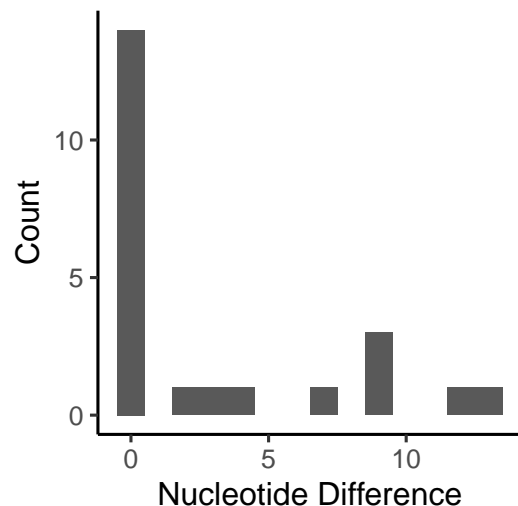
IGHV3-64*02_07

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



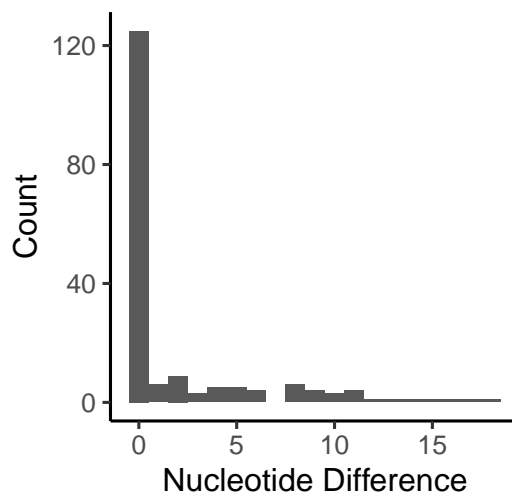
IGHV3-72*01

24 sequences assigned
14 (58.3%) exact matches, in which:
14 unique CDR3
3 unique J



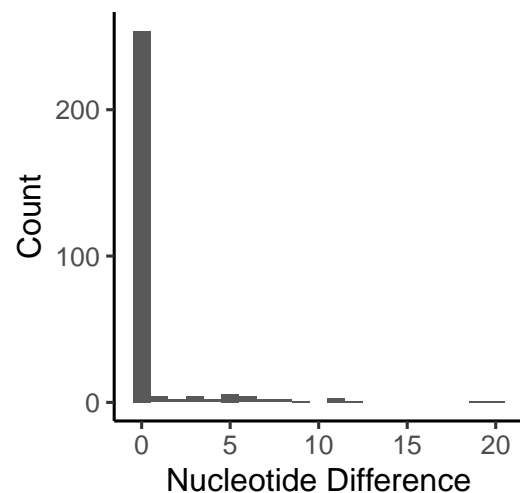
IGHV3-74*01_02

184 sequences assigned
125 (67.9%) exact matches, in which:
116 unique CDR3
5 unique J



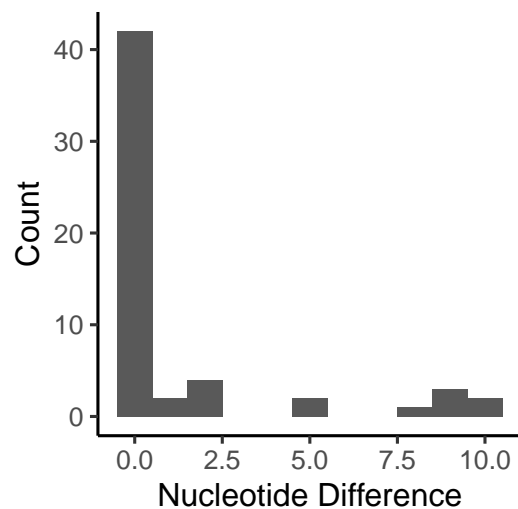
IGHV4-30-4*01

291 sequences assigned
254 (87.3%) exact matches, in which:
249 unique CDR3
6 unique J



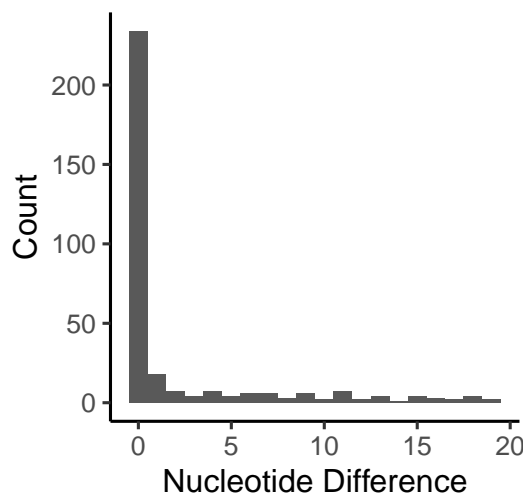
IGHV3-73*01_02

56 sequences assigned
42 (75%) exact matches, in which:
42 unique CDR3
5 unique J



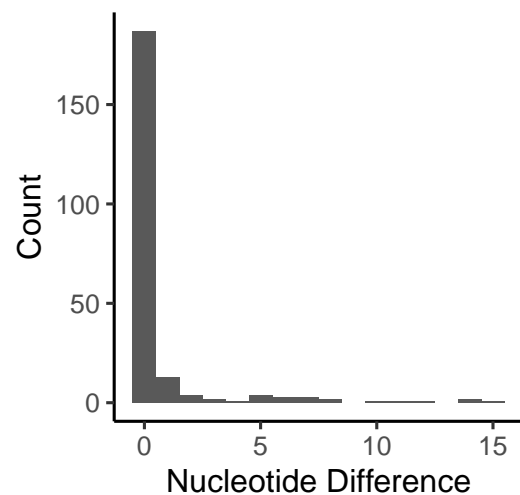
IGHV4-4*07

327 sequences assigned
234 (71.6%) exact matches, in which:
229 unique CDR3
6 unique J



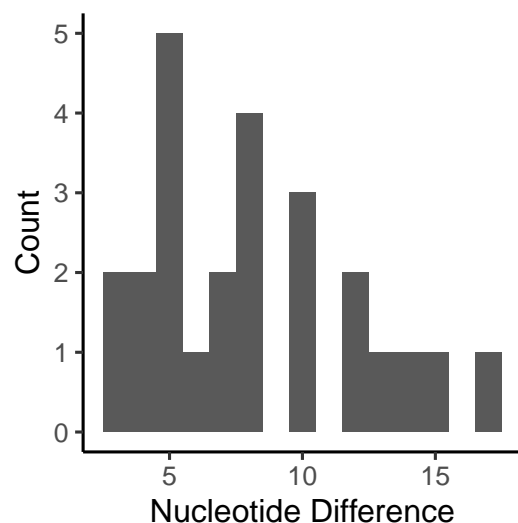
IGHV4-30-2*01

230 sequences assigned
187 (81.3%) exact matches, in which:
181 unique CDR3
6 unique J



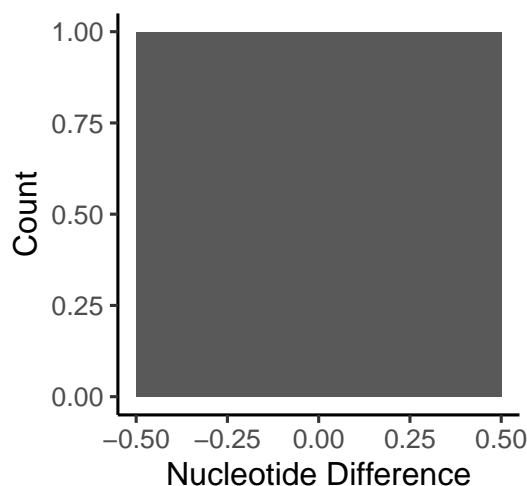
IGHV3-74*03

27 sequences assigned
No exact matches.



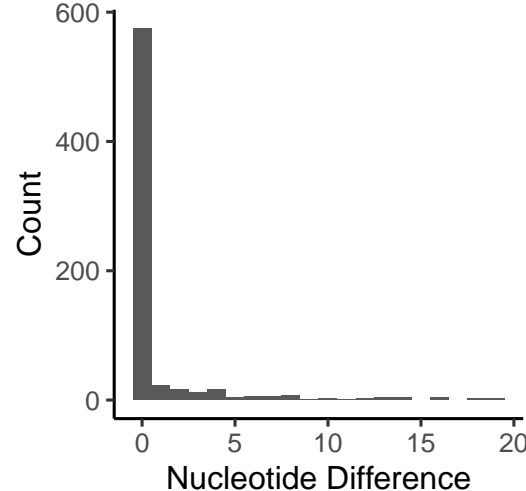
IGHV4-28*01_07

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



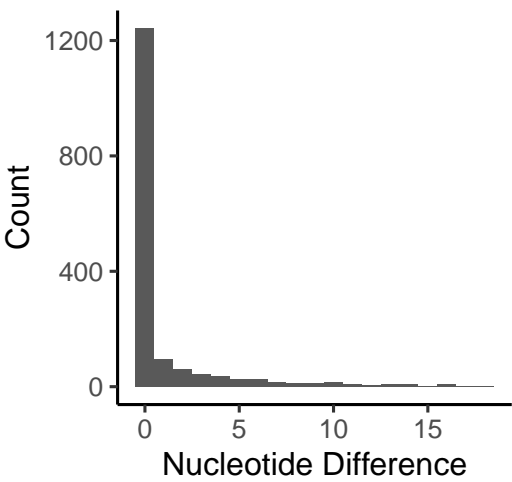
IGHV4-31*02

702 sequences assigned
575 (81.9%) exact matches, in which:
571 unique CDR3
6 unique J



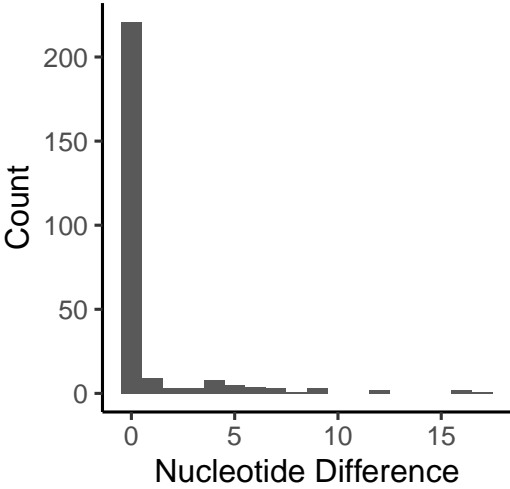
IGHV4-34*01_02

1634 sequences assigned
1242 (76%) exact matches, in which:
1214 unique CDR3
6 unique J



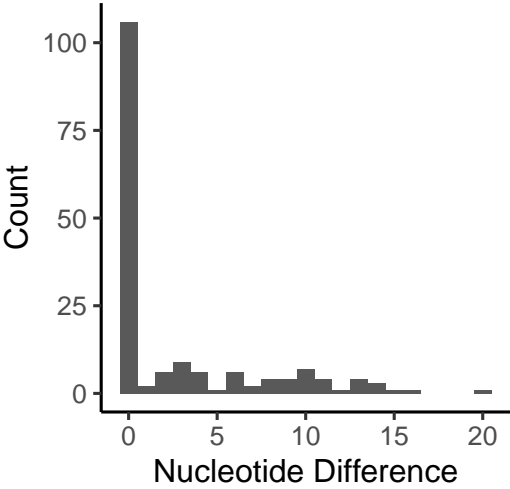
IGHV4-61*01

269 sequences assigned
221 (82.2%) exact matches, in which:
220 unique CDR3
6 unique J



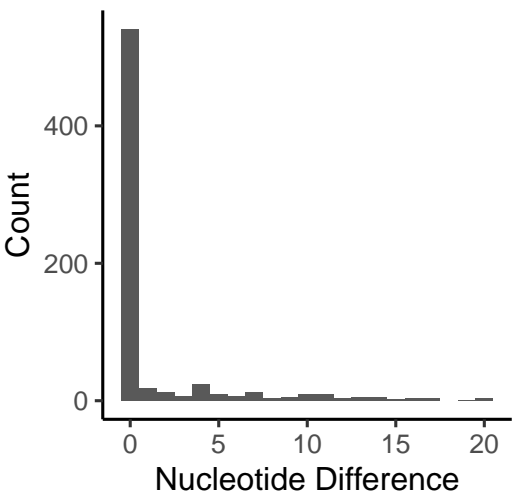
IGHV6-1*01_02

168 sequences assigned
106 (63.1%) exact matches, in which:
106 unique CDR3
6 unique J



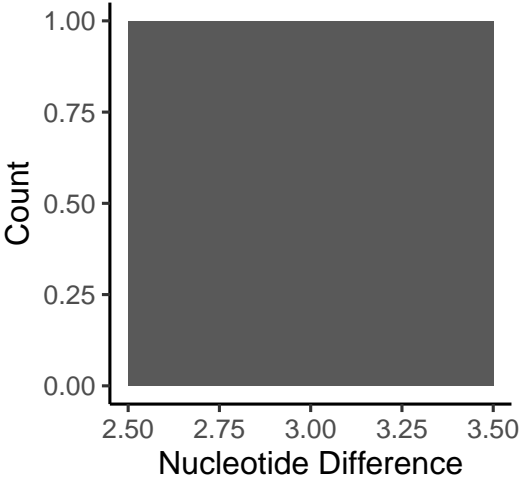
IGHV4-39*02_C258G

694 sequences assigned
541 (78%) exact matches, in which:
532 unique CDR3
6 unique J



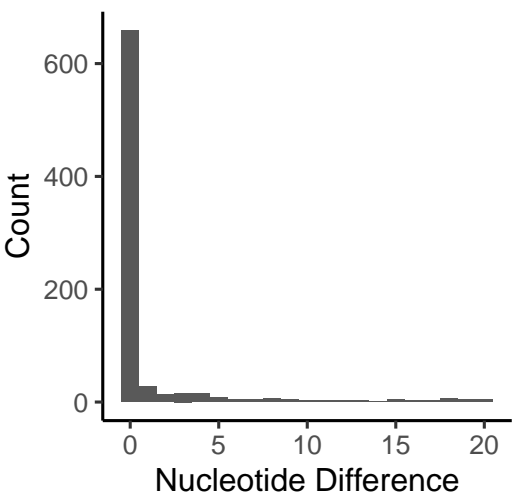
IGHV4/OR15-8*01

1 sequences assigned
No exact matches.



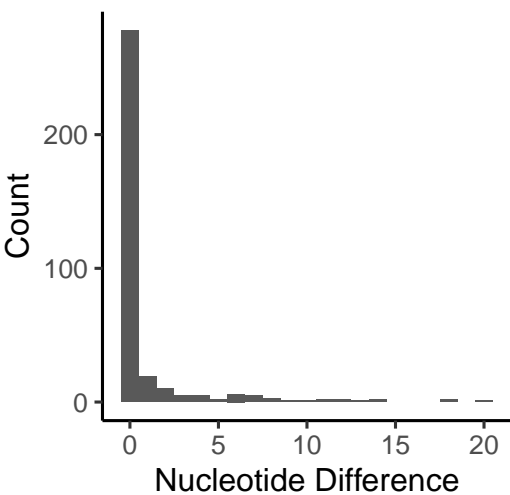
IGHV4-59*02_G88A

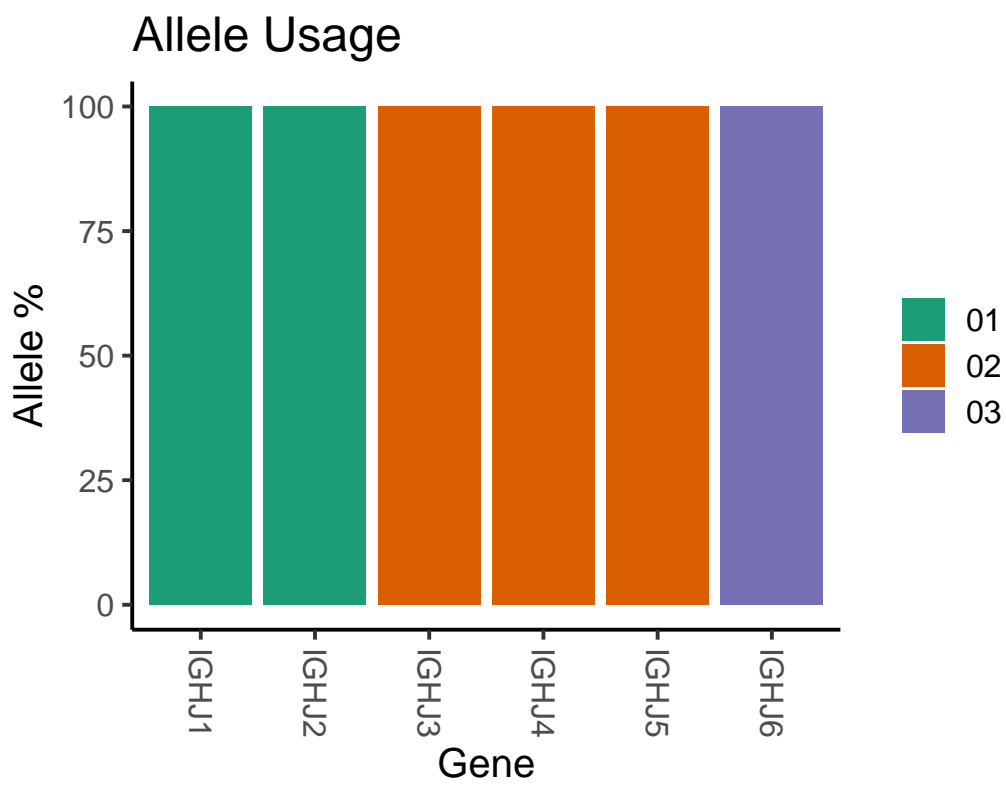
797 sequences assigned
659 (82.7%) exact matches, in which:
644 unique CDR3
6 unique J



IGHV5-51*07_A128G

346 sequences assigned
278 (80.3%) exact matches, in which:
277 unique CDR3
6 unique J





Warning – no inferred sequences found.