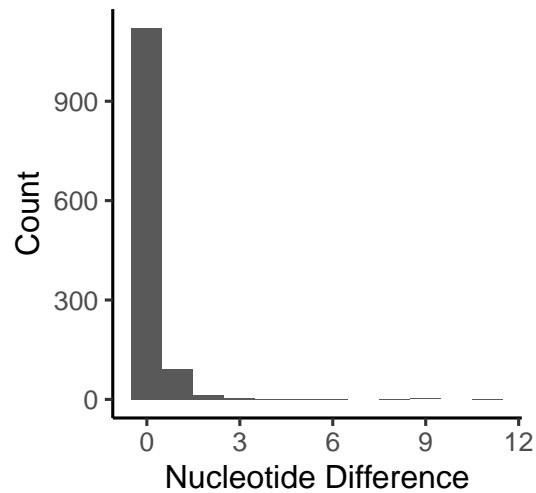


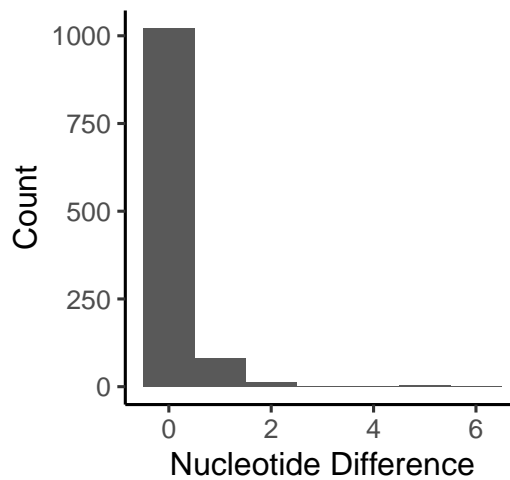
IGHV1-2*02

1243 sequences assigned
1122 (90.3%) exact matches, in which:
1075 unique CDR3
6 unique J



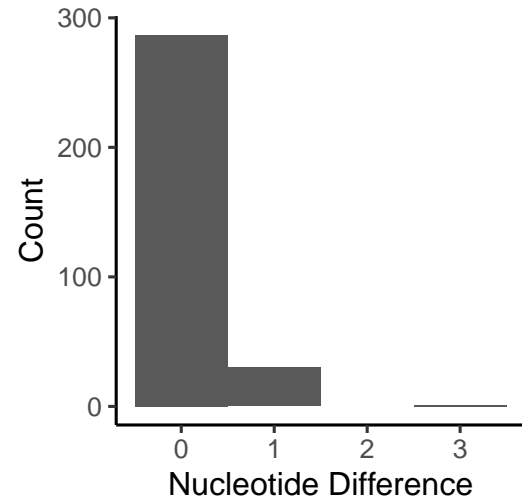
IGHV1-18*01

1125 sequences assigned
1021 (90.8%) exact matches, in which:
982 unique CDR3
6 unique J



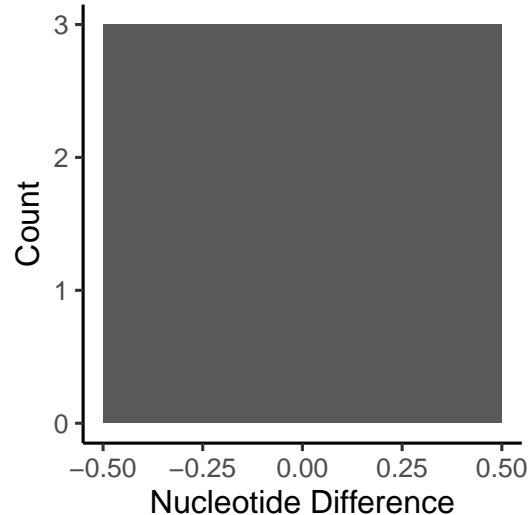
IGHV1-46*01

318 sequences assigned
287 (90.3%) exact matches, in which:
283 unique CDR3
6 unique J



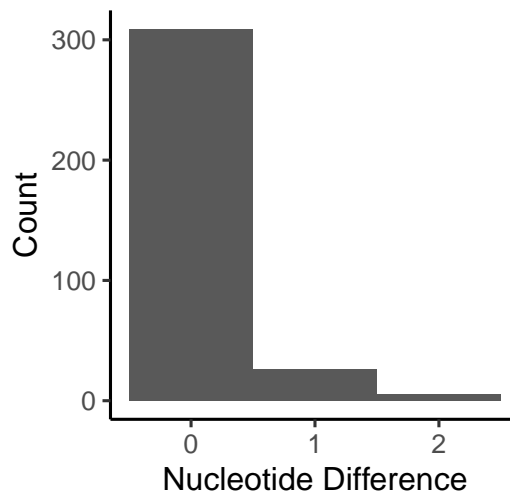
IGHV1-3*02

3 sequences assigned
3 (100%) exact matches, in which:
3 unique CDR3
1 unique J



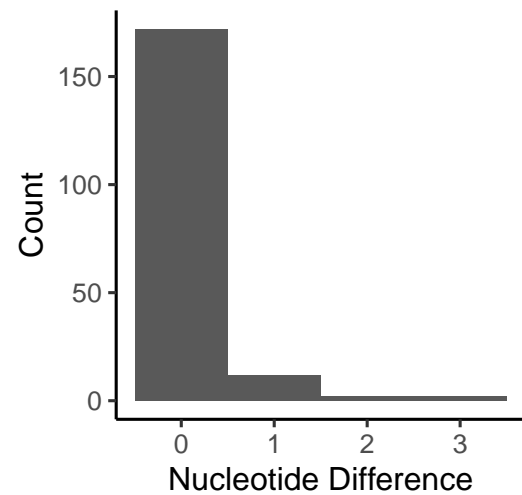
IGHV1-24*01

341 sequences assigned
309 (90.6%) exact matches, in which:
299 unique CDR3
6 unique J



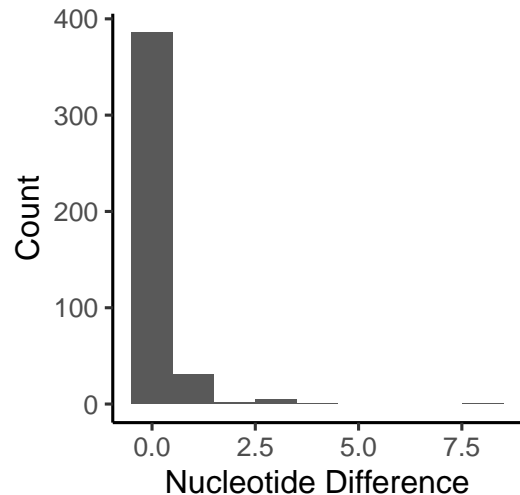
IGHV1-46*03

188 sequences assigned
172 (91.5%) exact matches, in which:
167 unique CDR3
6 unique J



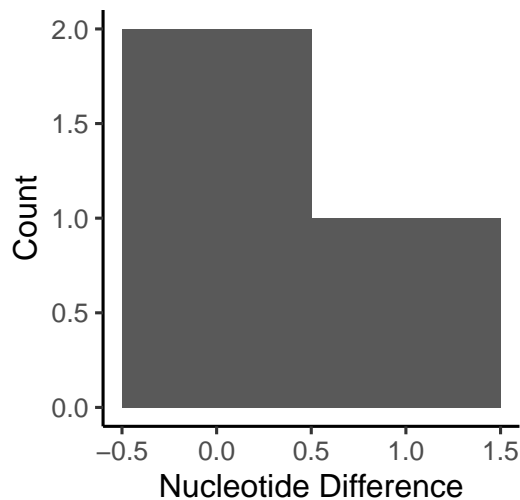
IGHV1-8*01

426 sequences assigned
386 (90.6%) exact matches, in which:
370 unique CDR3
6 unique J



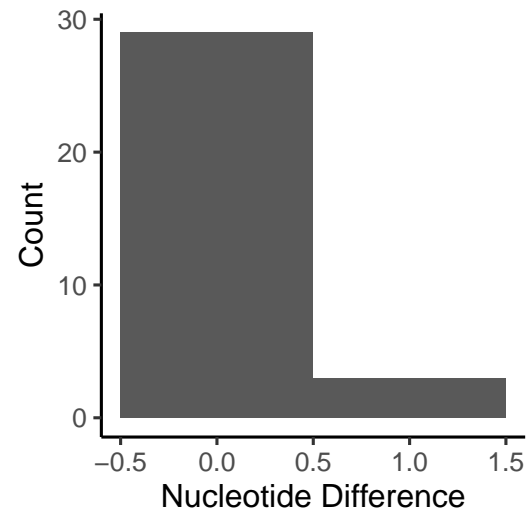
IGHV1-45*02

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



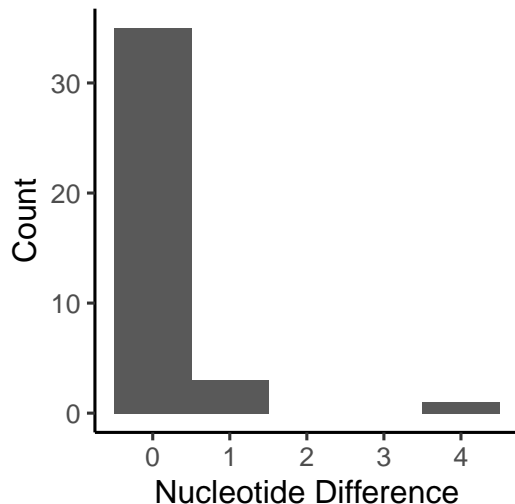
IGHV1-58*01

32 sequences assigned
29 (90.6%) exact matches, in which:
29 unique CDR3
5 unique J



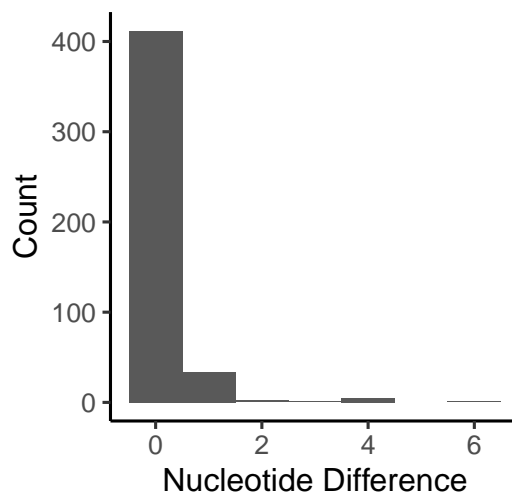
IGHV1-58*02

39 sequences assigned
35 (89.7%) exact matches, in which:
32 unique CDR3
5 unique J



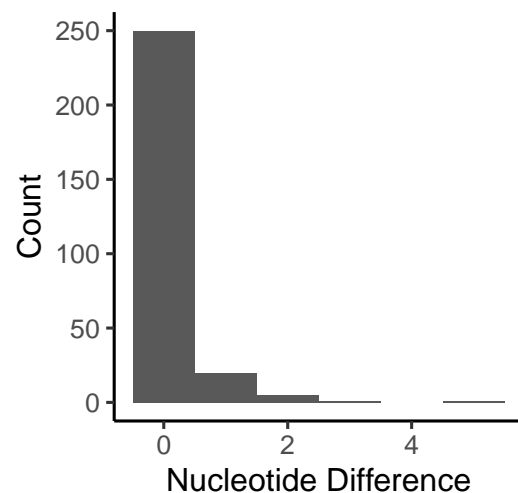
IGHV1-69*08_C191T

455 sequences assigned
412 (90.5%) exact matches, in which:
397 unique CDR3
6 unique J



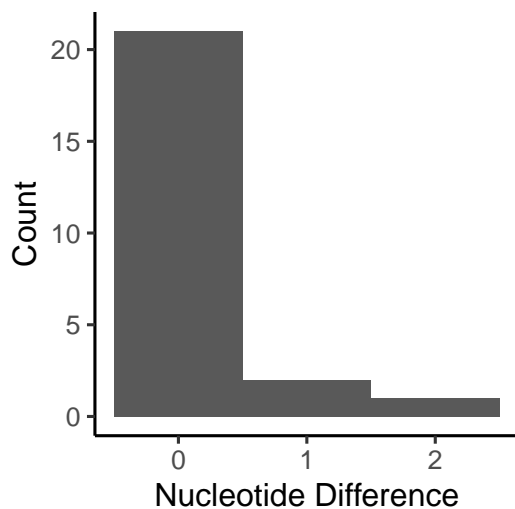
IGHV2-26*01

277 sequences assigned
250 (90.3%) exact matches, in which:
246 unique CDR3
6 unique J



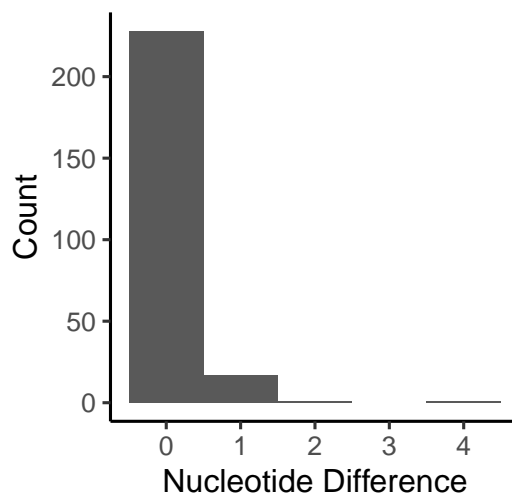
IGHV1-69-2*01

24 sequences assigned
21 (87.5%) exact matches, in which:
21 unique CDR3
5 unique J



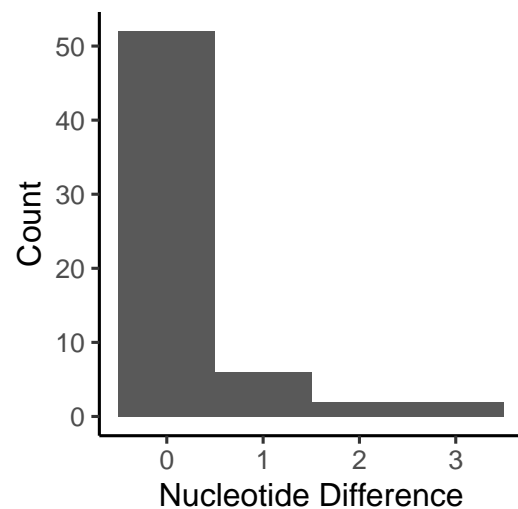
IGHV2-5*01

247 sequences assigned
228 (92.3%) exact matches, in which:
226 unique CDR3
6 unique J



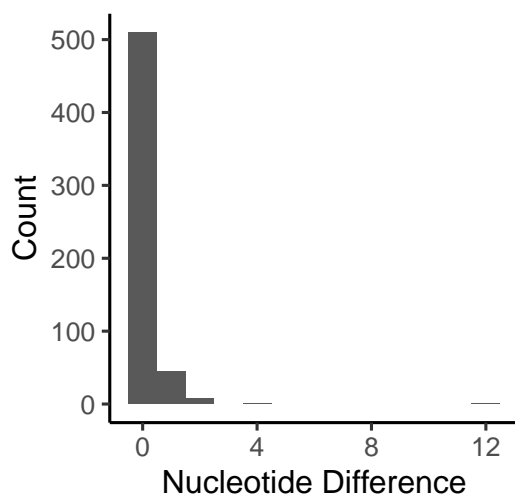
IGHV2-70*15

62 sequences assigned
52 (83.9%) exact matches, in which:
51 unique CDR3
5 unique J



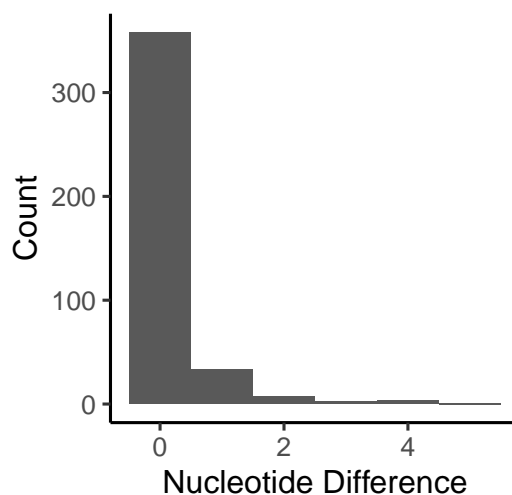
IGHV1-69*06

566 sequences assigned
510 (90.1%) exact matches, in which:
488 unique CDR3
6 unique J



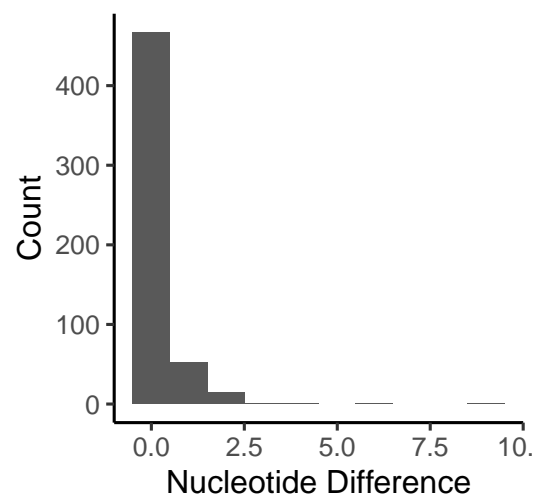
IGHV2-5*02

404 sequences assigned
358 (88.6%) exact matches, in which:
344 unique CDR3
6 unique J



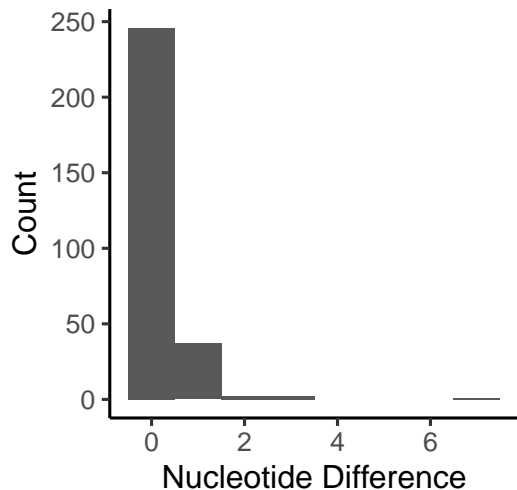
IGHV3-7*01

537 sequences assigned
467 (87%) exact matches, in which:
445 unique CDR3
6 unique J



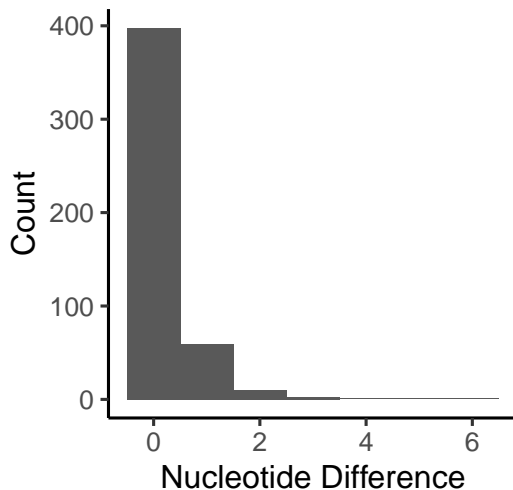
IGHV3-7*04

288 sequences assigned
246 (85.4%) exact matches, in which:
224 unique CDR3
6 unique J



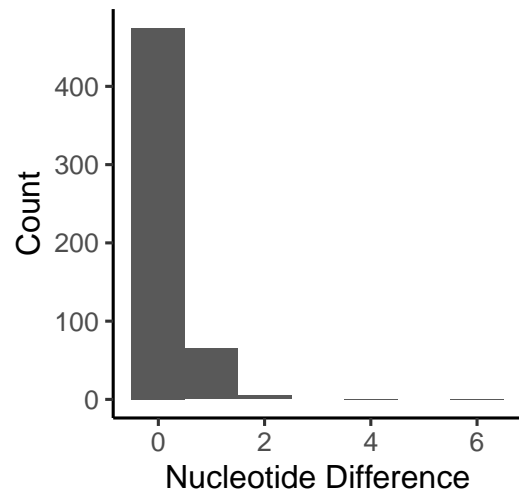
IGHV3-11*05

473 sequences assigned
398 (84.1%) exact matches, in which:
376 unique CDR3
6 unique J



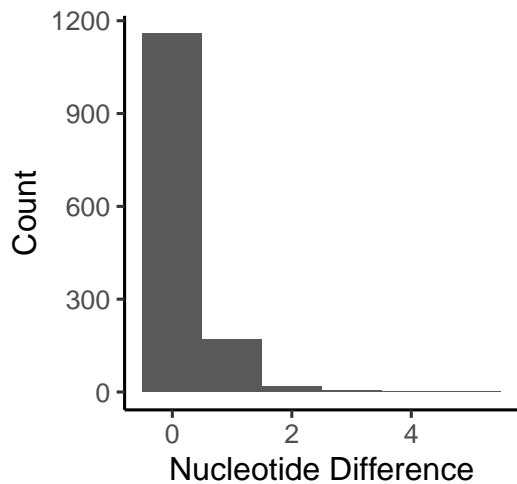
IGHV3-15*01

547 sequences assigned
475 (86.8%) exact matches, in which:
452 unique CDR3
6 unique J



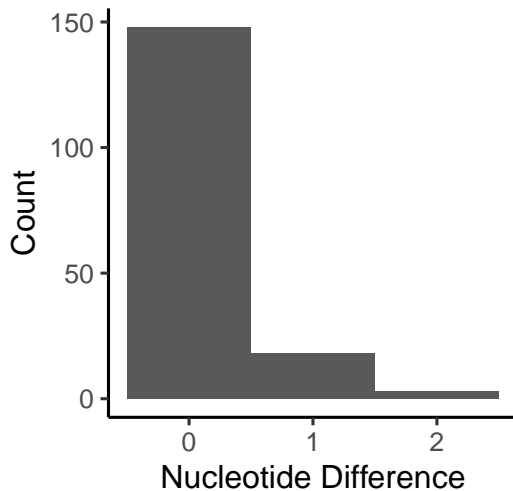
IGHV3-9*01

1359 sequences assigned
1158 (85.2%) exact matches, in which:
1075 unique CDR3
6 unique J



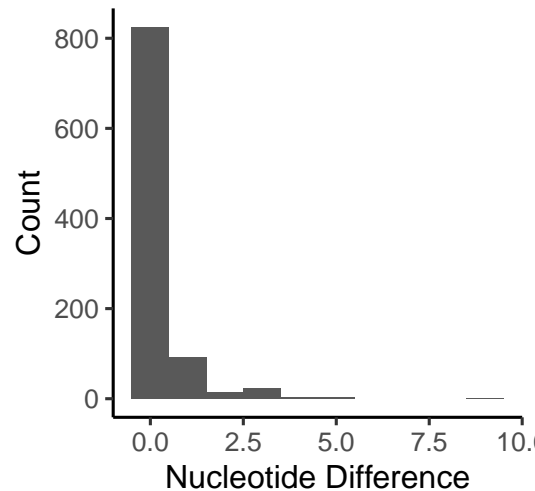
IGHV3-13*01

169 sequences assigned
148 (87.6%) exact matches, in which:
145 unique CDR3
6 unique J



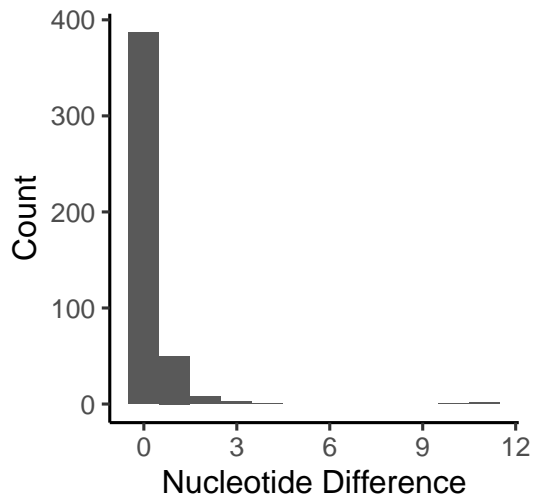
IGHV3-15*07

963 sequences assigned
825 (85.7%) exact matches, in which:
780 unique CDR3
6 unique J



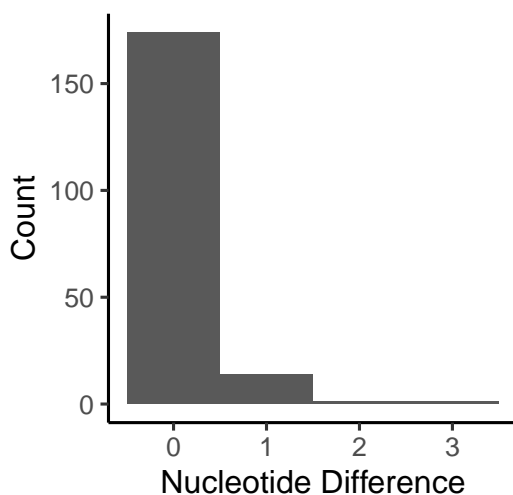
IGHV3-11*01

452 sequences assigned
387 (85.6%) exact matches, in which:
375 unique CDR3
6 unique J



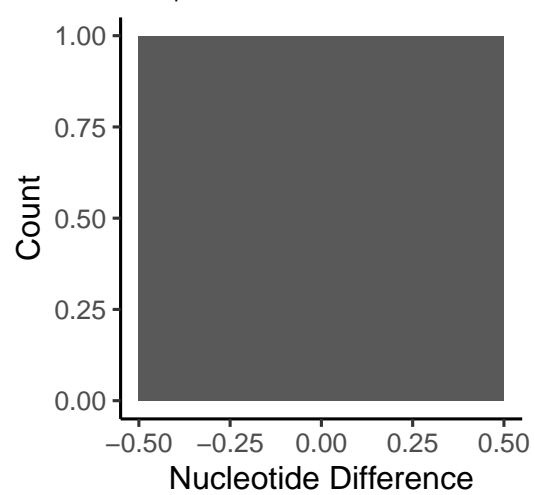
IGHV3-13*04

190 sequences assigned
174 (91.6%) exact matches, in which:
165 unique CDR3
5 unique J



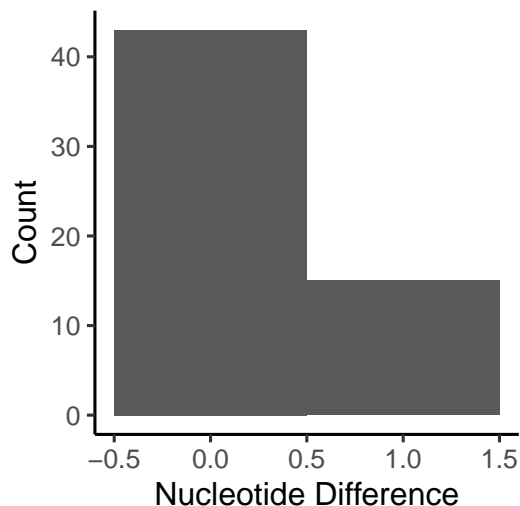
IGHV3-19*01

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



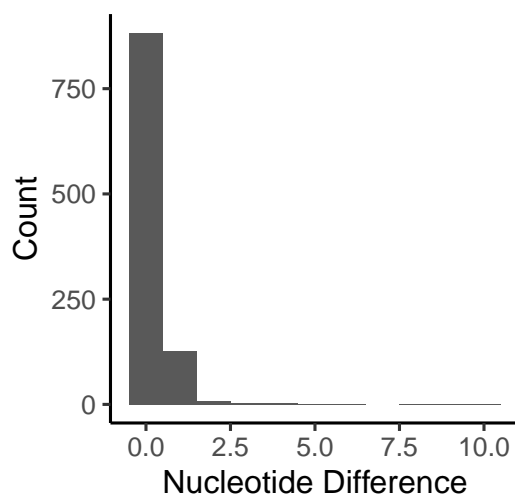
IGHV3-20*01

58 sequences assigned
43 (74.1%) exact matches, in which:
40 unique CDR3
5 unique J



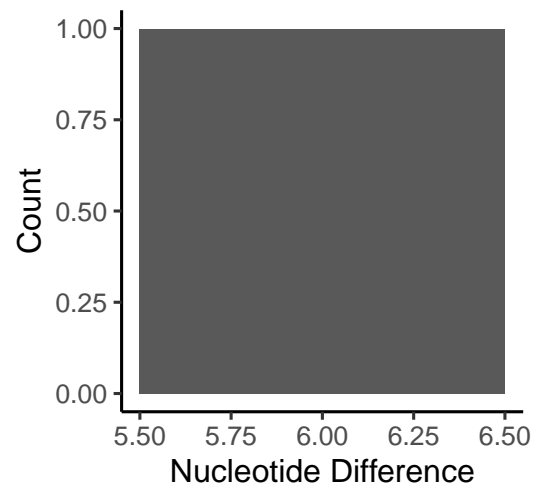
IGHV3-30-3*01

1030 sequences assigned
883 (85.7%) exact matches, in which:
828 unique CDR3
6 unique J



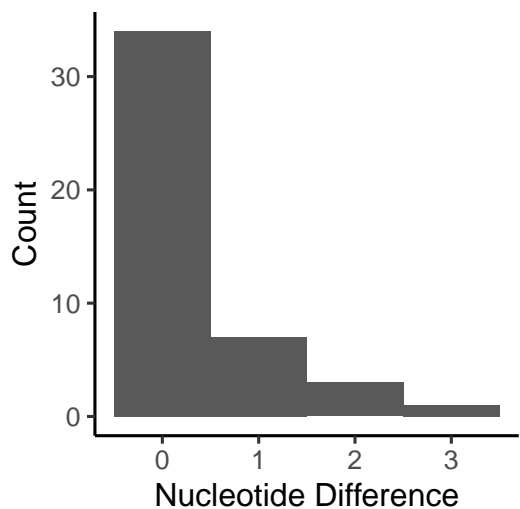
IGHV3-41*02

1 sequences assigned
No exact matches.



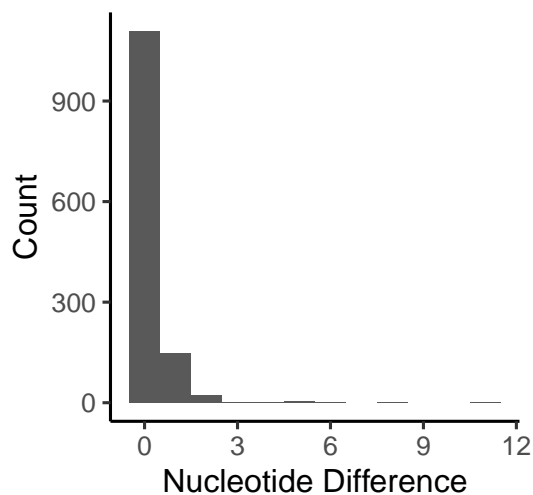
IGHV3-20*04

45 sequences assigned
34 (75.6%) exact matches, in which:
32 unique CDR3
6 unique J



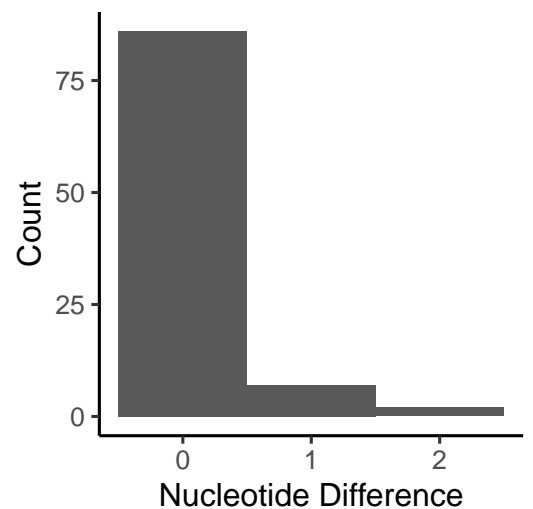
IGHV3-33*01

1290 sequences assigned
1109 (86%) exact matches, in which:
1021 unique CDR3
6 unique J



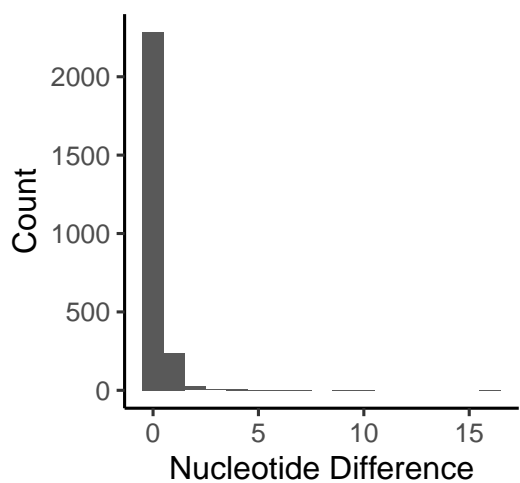
IGHV3-43*01

95 sequences assigned
86 (90.5%) exact matches, in which:
81 unique CDR3
5 unique J



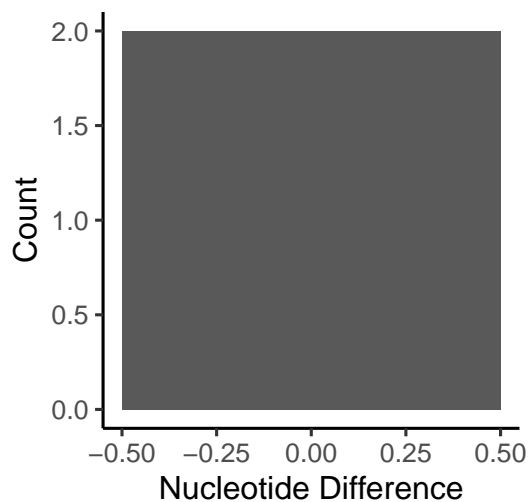
IGHV3-21*01

2571 sequences assigned
2285 (88.9%) exact matches, in which:
2126 unique CDR3
6 unique J



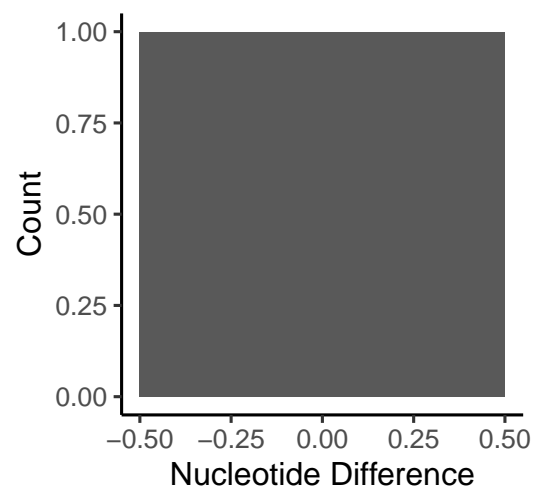
IGHV3-35*01

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



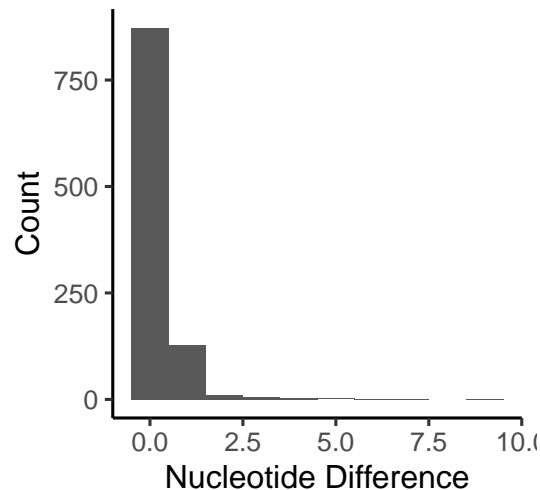
IGHV3-47*02

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



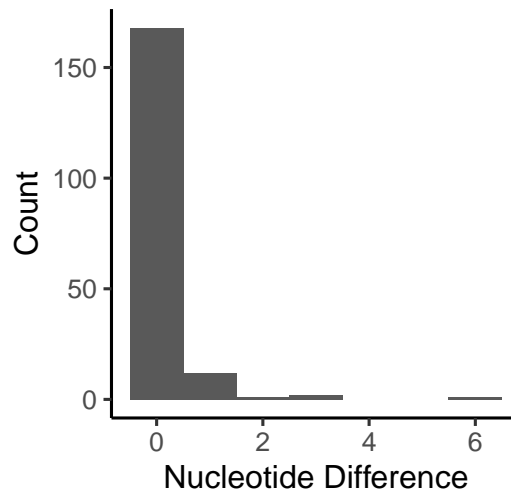
IGHV3-48*01

1025 sequences assigned
873 (85.2%) exact matches, in which:
819 unique CDR3
6 unique J



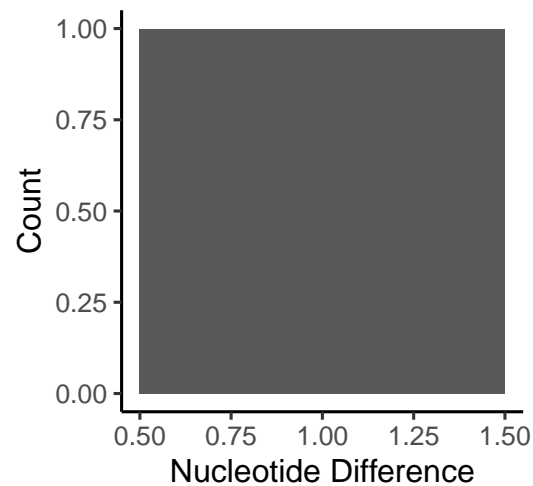
IGHV3-53*02

184 sequences assigned
168 (91.3%) exact matches, in which:
159 unique CDR3
6 unique J



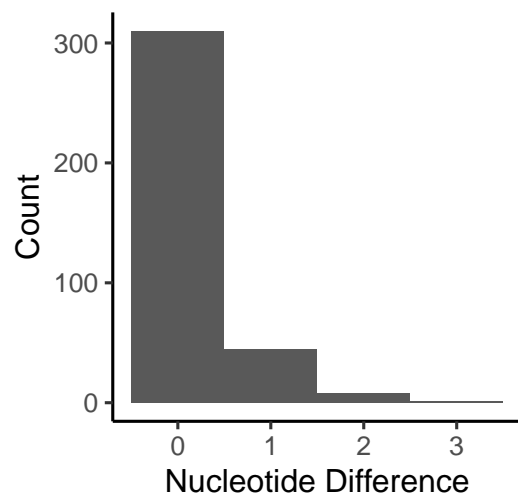
IGHV3-69-1*01

1 sequences assigned
No exact matches.



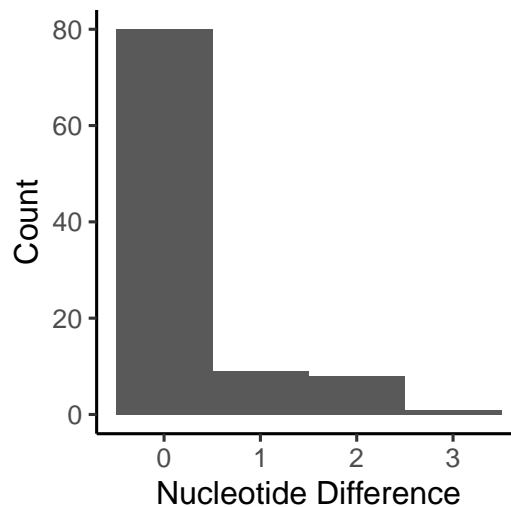
IGHV3-49*03

365 sequences assigned
310 (84.9%) exact matches, in which:
291 unique CDR3
6 unique J



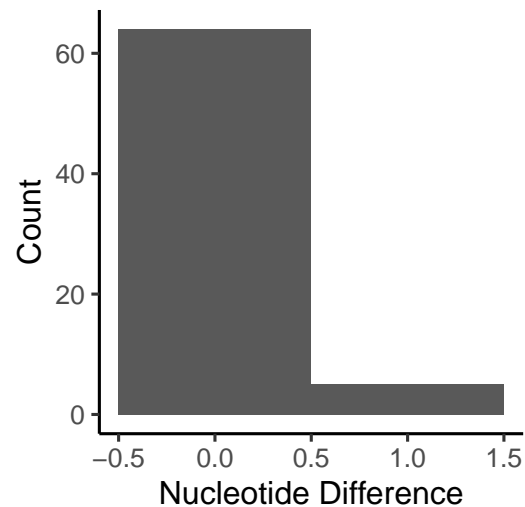
IGHV3-64*01

98 sequences assigned
80 (81.6%) exact matches, in which:
79 unique CDR3
6 unique J



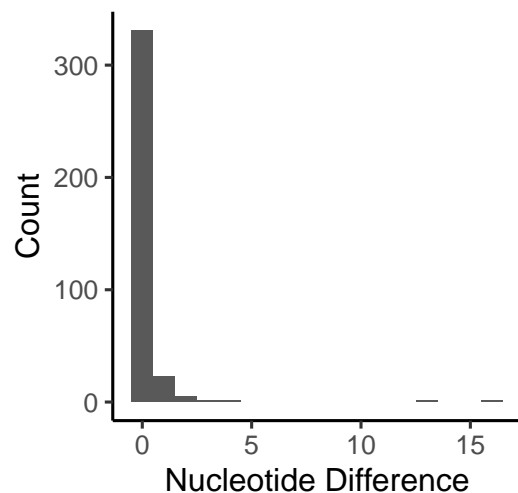
IGHV3-72*01

69 sequences assigned
64 (92.8%) exact matches, in which:
60 unique CDR3
5 unique J



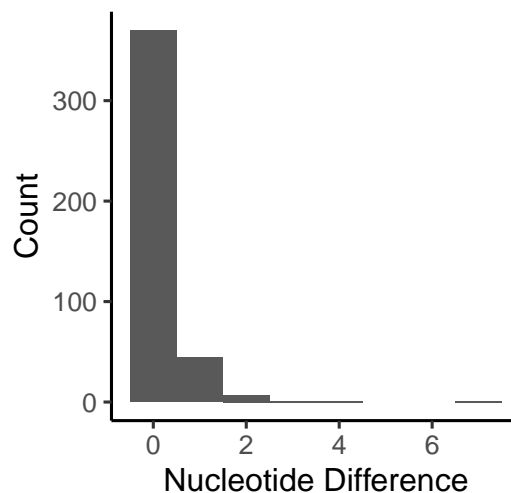
IGHV3-53*01

363 sequences assigned
331 (91.2%) exact matches, in which:
318 unique CDR3
6 unique J



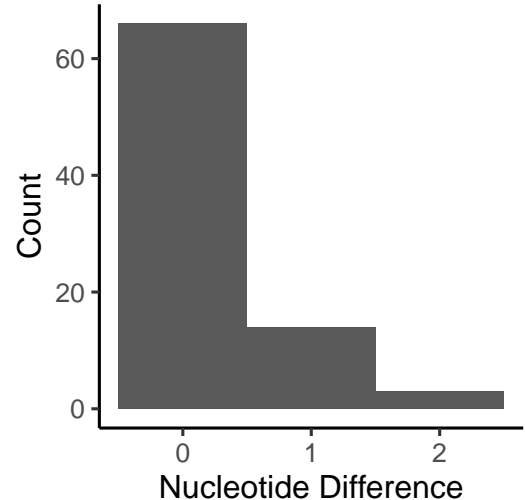
IGHV3-66*02

425 sequences assigned
370 (87.1%) exact matches, in which:
347 unique CDR3
6 unique J



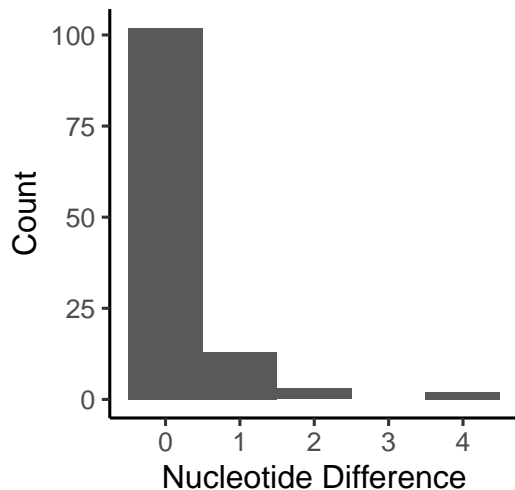
IGHV3-73*01

83 sequences assigned
66 (79.5%) exact matches, in which:
64 unique CDR3
6 unique J



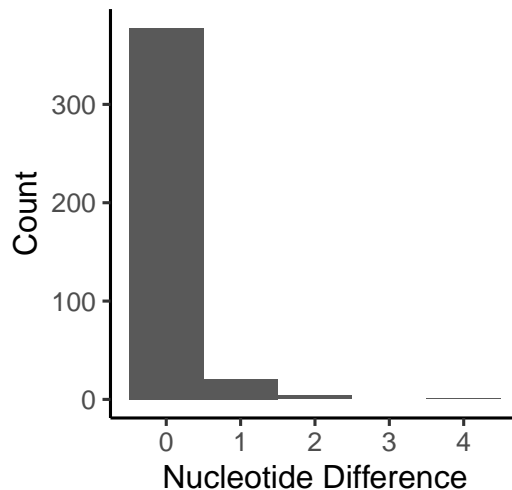
IGHV3–73*02

120 sequences assigned
102 (85%) exact matches, in which:
95 unique CDR3
5 unique J



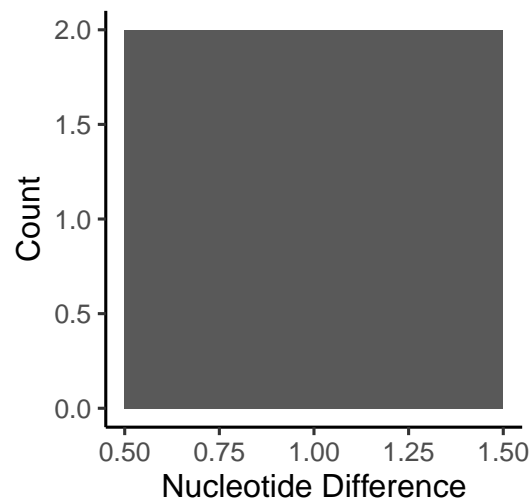
IGHV4–4*02

404 sequences assigned
378 (93.6%) exact matches, in which:
365 unique CDR3
6 unique J



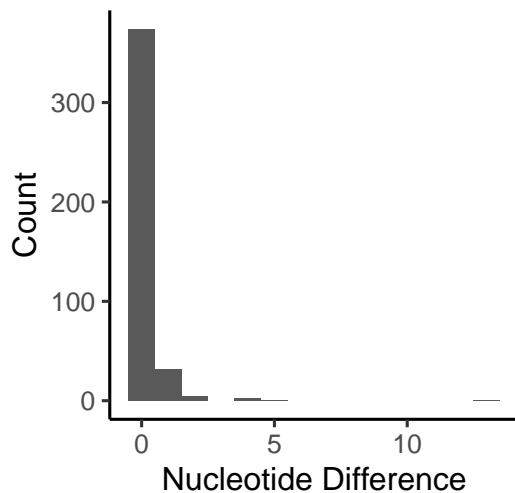
IGHV4–28*05

2 sequences assigned
No exact matches.



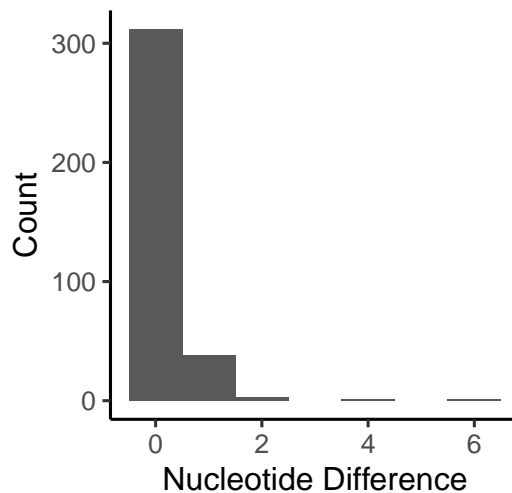
IGHV3–74*01

416 sequences assigned
374 (89.9%) exact matches, in which:
352 unique CDR3
6 unique J



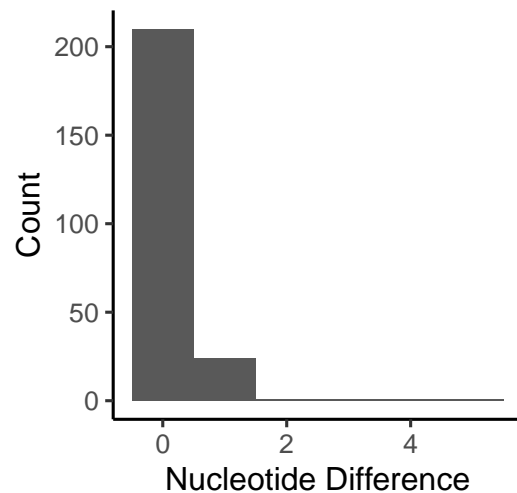
IGHV4–4*07

355 sequences assigned
312 (87.9%) exact matches, in which:
299 unique CDR3
6 unique J



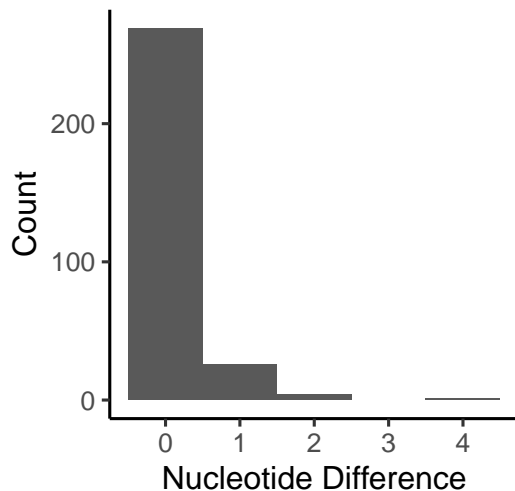
IGHV4–30–2*01

240 sequences assigned
210 (87.5%) exact matches, in which:
199 unique CDR3
6 unique J



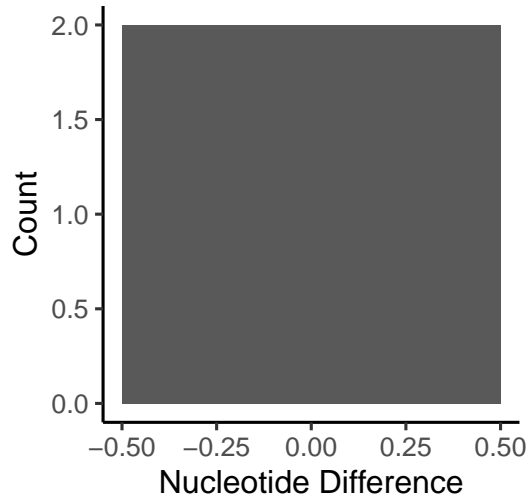
IGHV3–64D*06

300 sequences assigned
269 (89.7%) exact matches, in which:
243 unique CDR3
6 unique J



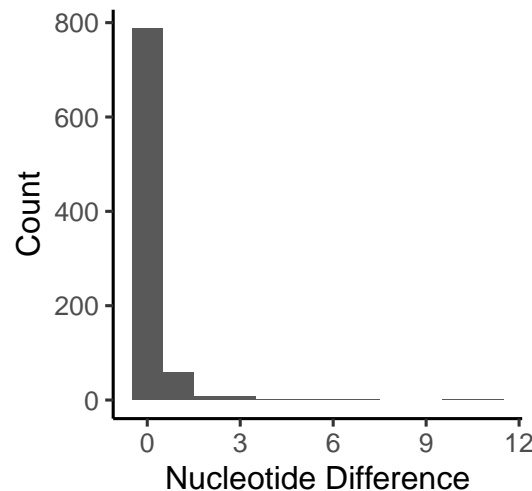
IGHV4–28*01

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



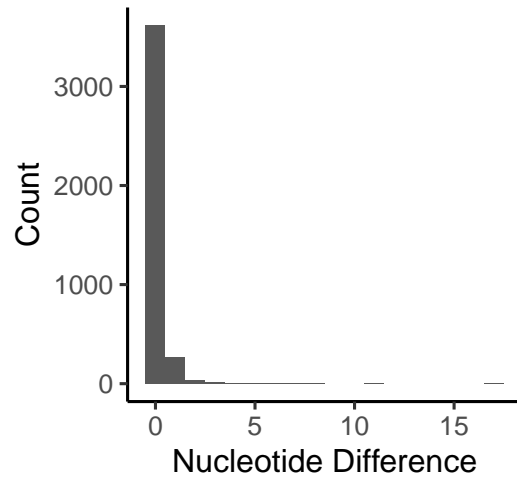
IGHV4–31*03

867 sequences assigned
788 (90.9%) exact matches, in which:
773 unique CDR3
6 unique J



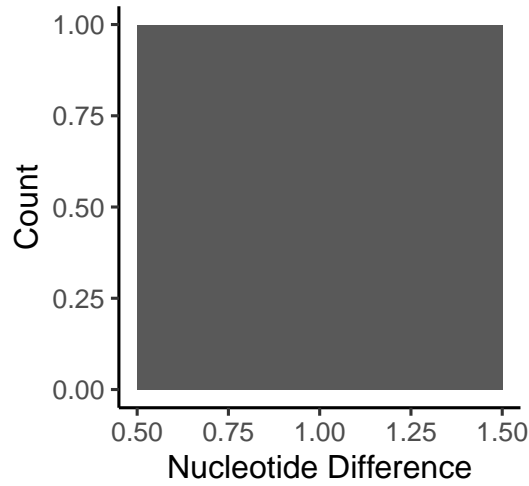
IGHV4-34*01

3956 sequences assigned
3616 (91.4%) exact matches, in which:
3410 unique CDR3
6 unique J



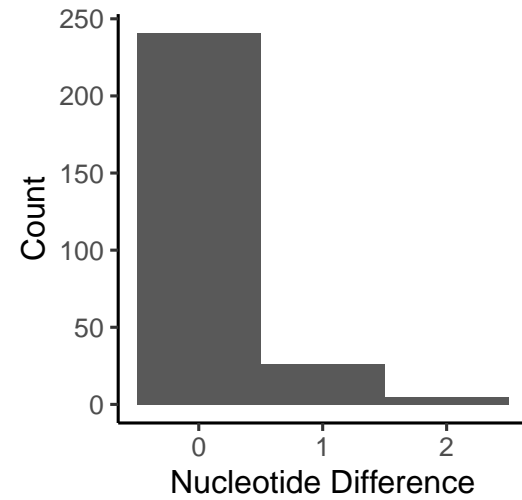
IGHV4-55*08

1 sequences assigned
No exact matches.



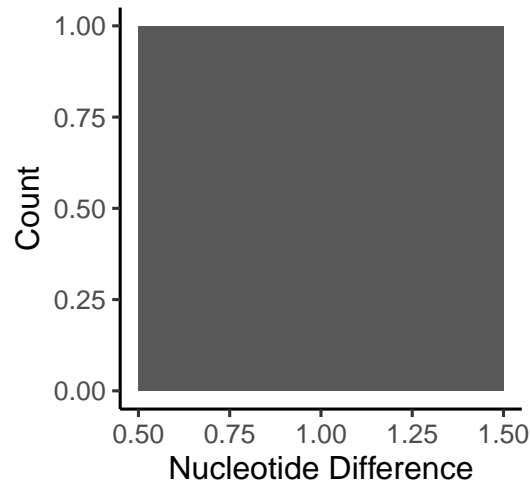
IGHV5-10-1*01

272 sequences assigned
241 (88.6%) exact matches, in which:
230 unique CDR3
6 unique J



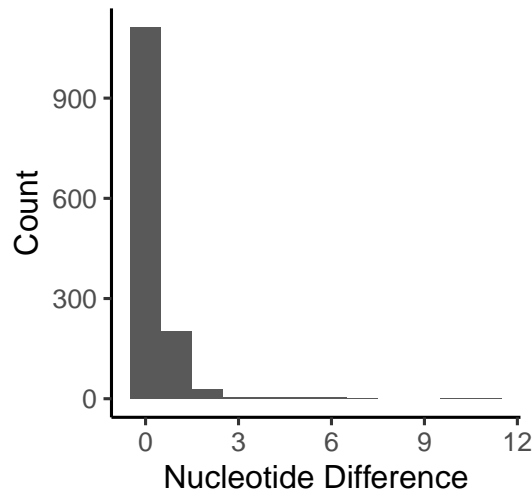
IGHV4-38-2*02

1 sequences assigned
No exact matches.



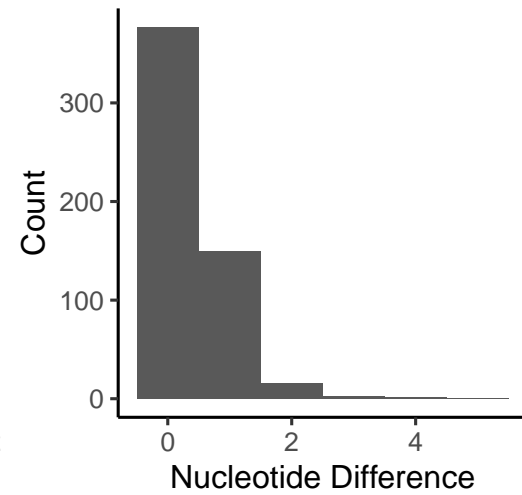
IGHV4-59*01

1367 sequences assigned
1113 (81.4%) exact matches, in which:
1074 unique CDR3
6 unique J



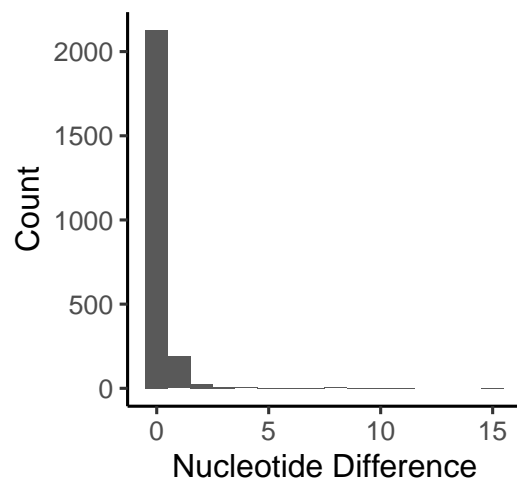
IGHV5-51*01

549 sequences assigned
377 (68.7%) exact matches, in which:
364 unique CDR3
6 unique J



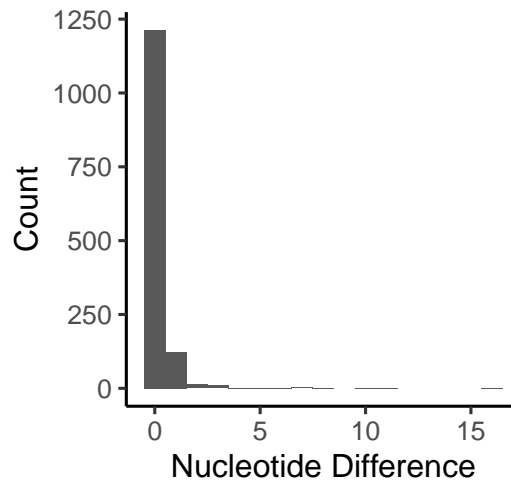
IGHV4-39*01

2373 sequences assigned
2128 (89.7%) exact matches, in which:
2017 unique CDR3
6 unique J



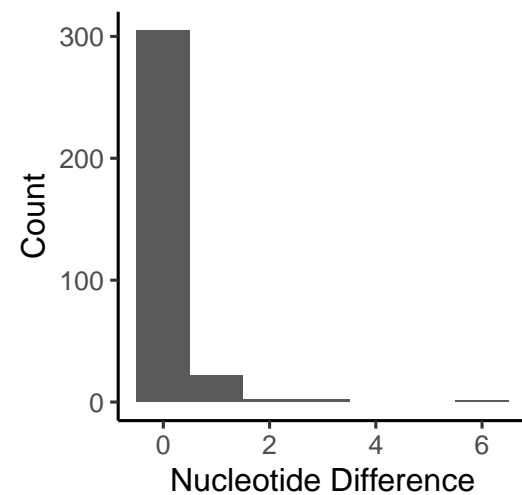
IGHV4-61*02

1370 sequences assigned
1213 (88.5%) exact matches, in which:
1174 unique CDR3
6 unique J



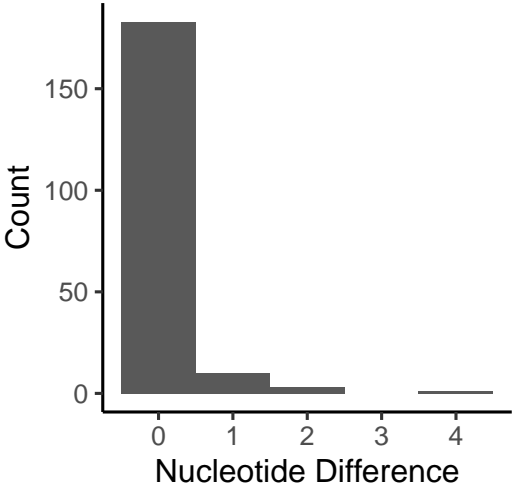
IGHV5-51*03

333 sequences assigned
305 (91.6%) exact matches, in which:
296 unique CDR3
6 unique J



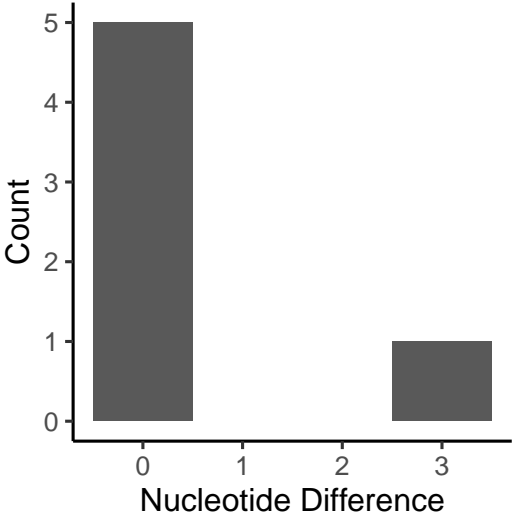
IGHV6-1*01

197 sequences assigned
183 (92.9%) exact matches, in which:
179 unique CDR3
6 unique J



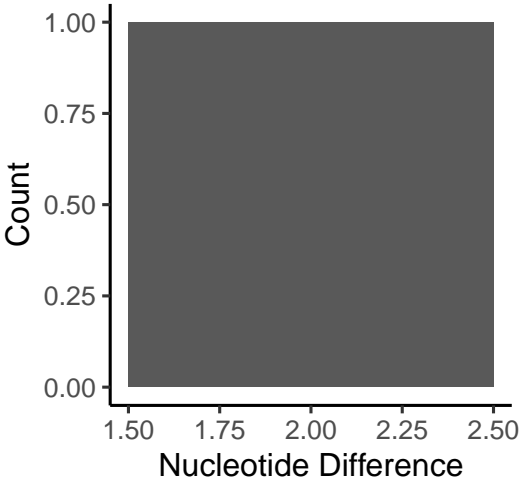
IGHV7-4-1*01

6 sequences assigned
5 (83.3%) exact matches, in which:
5 unique CDR3
3 unique J



IGHV7-81*01

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.