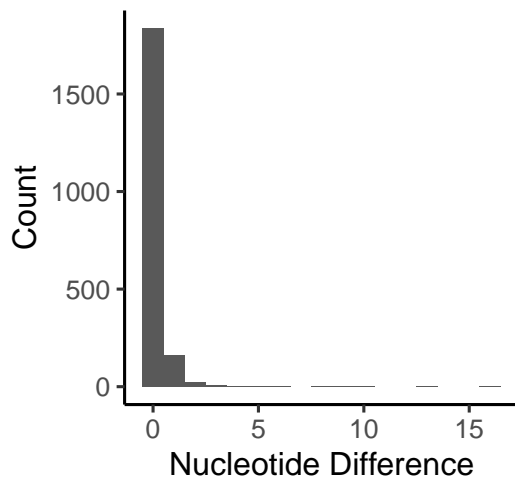


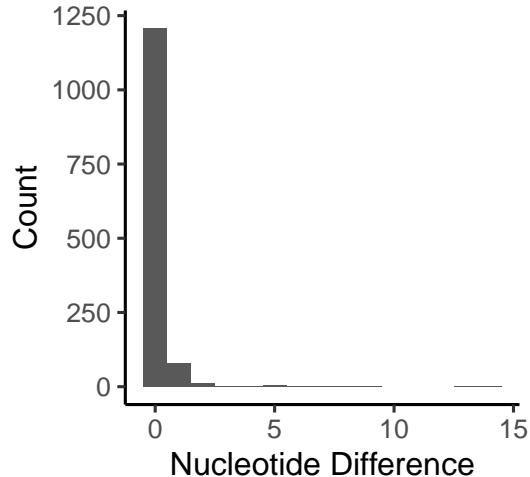
IGHV1-2*02

2046 sequences assigned
1836 (89.7%) exact matches, in which:
1729 unique CDR3
6 unique J



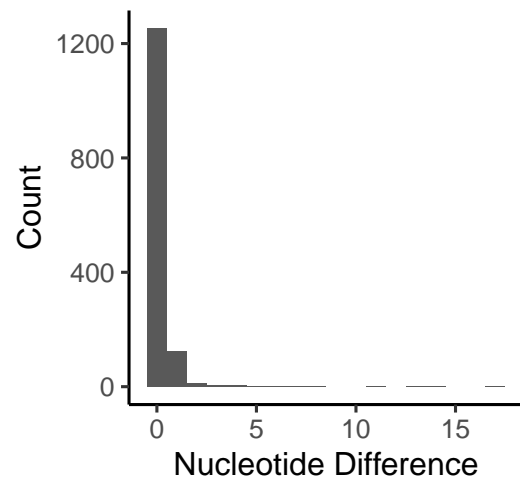
IGHV1-18*01

1317 sequences assigned
1207 (91.6%) exact matches, in which:
1151 unique CDR3
6 unique J



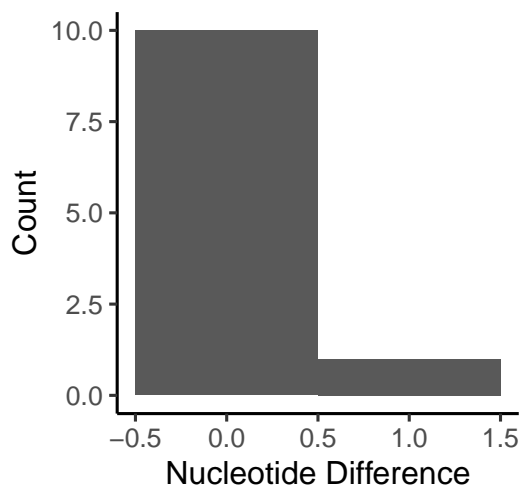
IGHV1-46*01

1412 sequences assigned
1253 (88.7%) exact matches, in which:
1178 unique CDR3
6 unique J



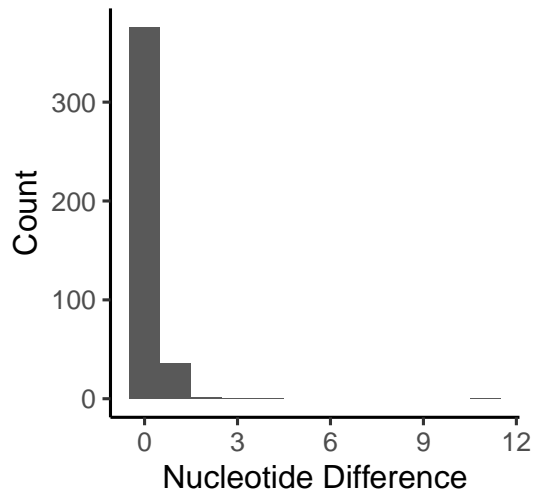
IGHV1-3*02

12 sequences assigned
10 (83.3%) exact matches, in which:
9 unique CDR3
3 unique J



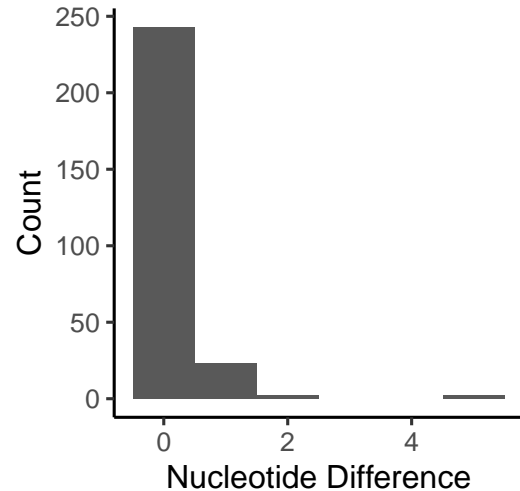
IGHV1-24*01

418 sequences assigned
376 (90%) exact matches, in which:
358 unique CDR3
6 unique J



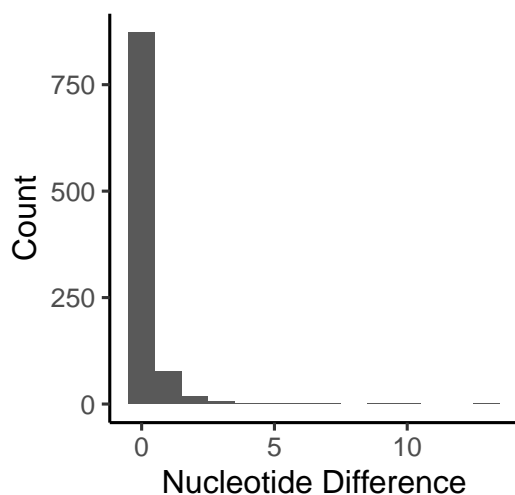
IGHV1-58*01

270 sequences assigned
243 (90%) exact matches, in which:
230 unique CDR3
6 unique J



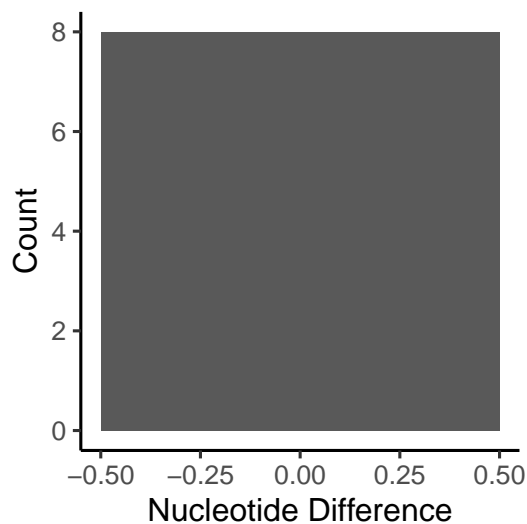
IGHV1-8*01

984 sequences assigned
873 (88.7%) exact matches, in which:
820 unique CDR3
6 unique J



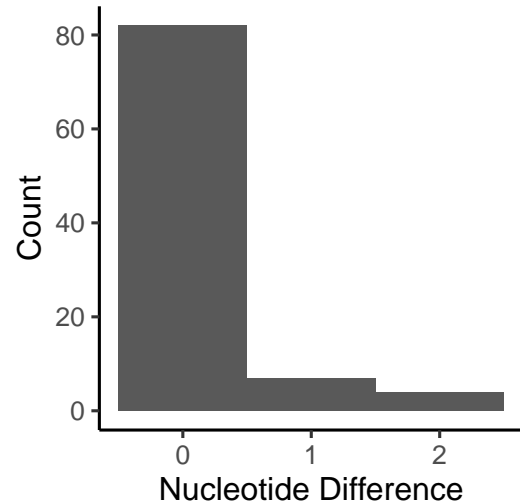
IGHV1-45*02

8 sequences assigned
8 (100%) exact matches, in which:
7 unique CDR3
3 unique J



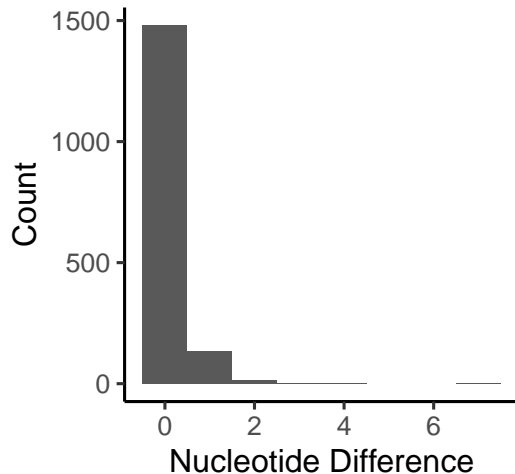
IGHV1-69-2*01

93 sequences assigned
82 (88.2%) exact matches, in which:
79 unique CDR3
4 unique J



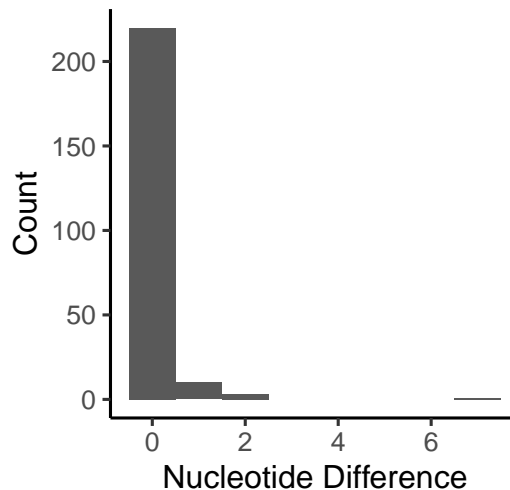
IGHV1-69*09

1640 sequences assigned
1480 (90.2%) exact matches, in which:
1368 unique CDR3
6 unique J



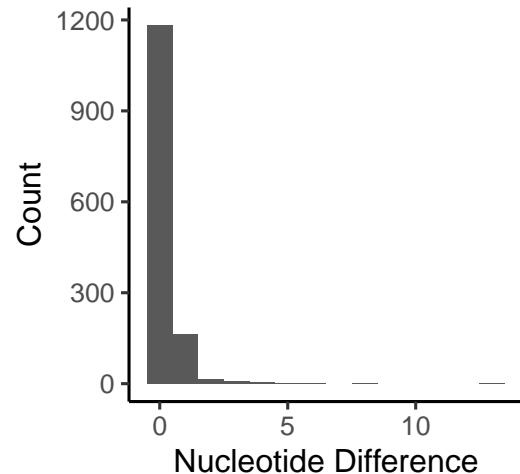
IGHV2-70*01

234 sequences assigned
220 (94%) exact matches, in which:
214 unique CDR3
5 unique J



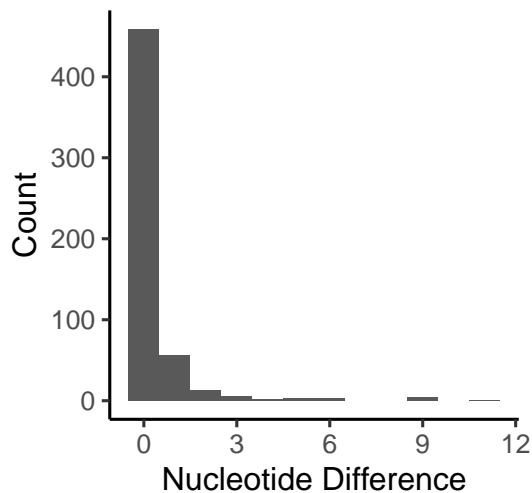
IGHV3-9*01

1380 sequences assigned
1182 (85.7%) exact matches, in which:
1056 unique CDR3
6 unique J



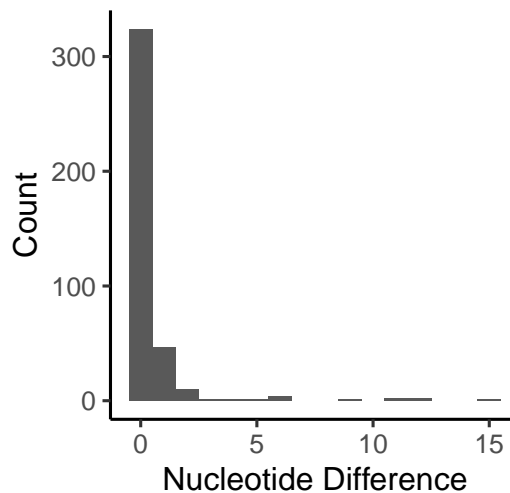
IGHV2-5*02

546 sequences assigned
459 (84.1%) exact matches, in which:
443 unique CDR3
6 unique J



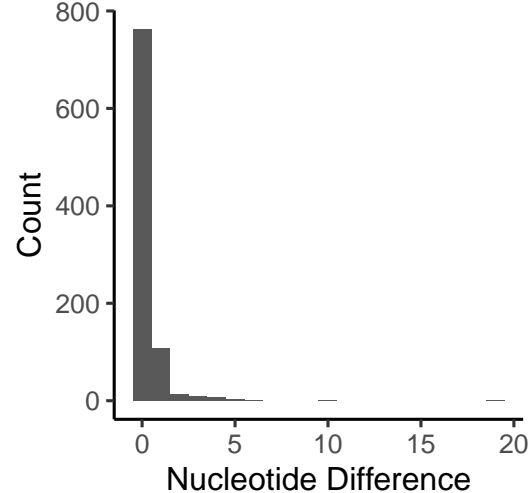
IGHV3-7*01

394 sequences assigned
324 (82.2%) exact matches, in which:
301 unique CDR3
6 unique J



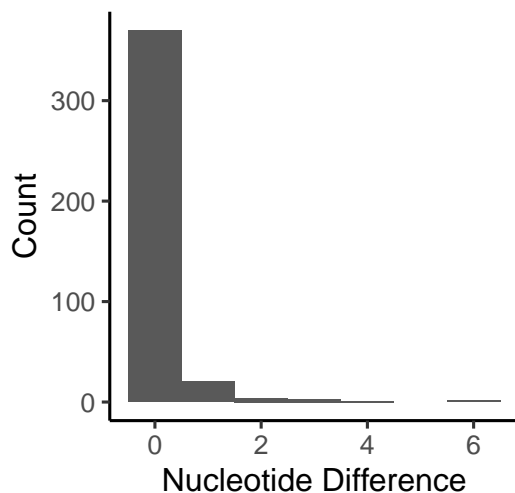
IGHV3-11*01

907 sequences assigned
763 (84.1%) exact matches, in which:
718 unique CDR3
6 unique J



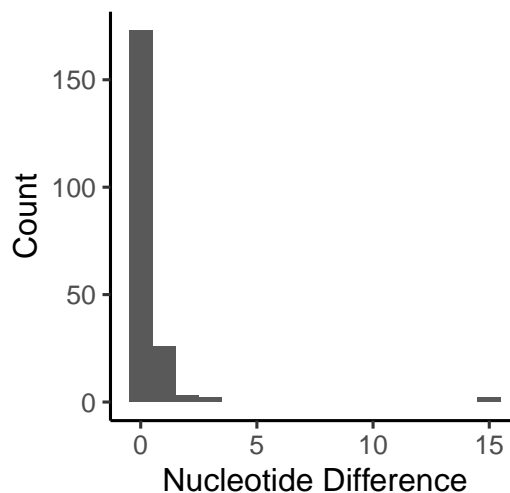
IGHV2-26*01

400 sequences assigned
370 (92.5%) exact matches, in which:
360 unique CDR3
6 unique J



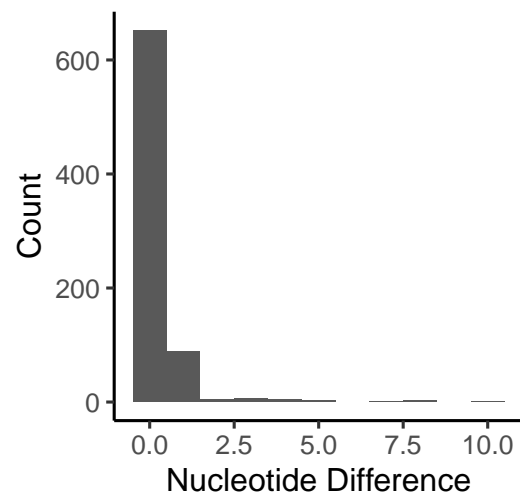
IGHV3-7*04

206 sequences assigned
173 (84%) exact matches, in which:
160 unique CDR3
6 unique J



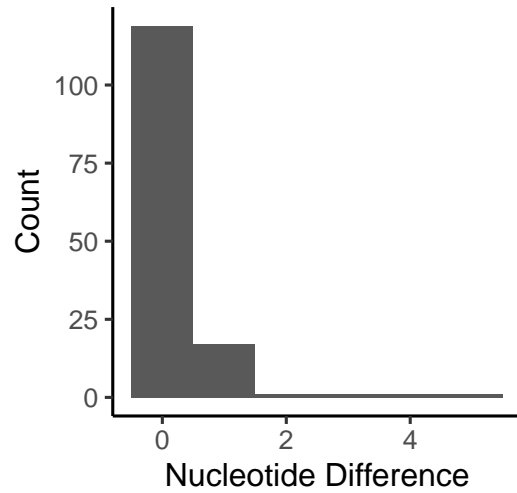
IGHV3-11*05

761 sequences assigned
652 (85.7%) exact matches, in which:
610 unique CDR3
6 unique J



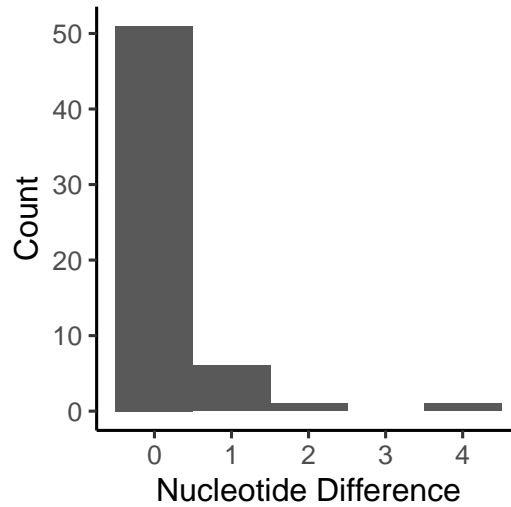
IGHV3-13*01

140 sequences assigned
119 (85%) exact matches, in which:
110 unique CDR3
5 unique J



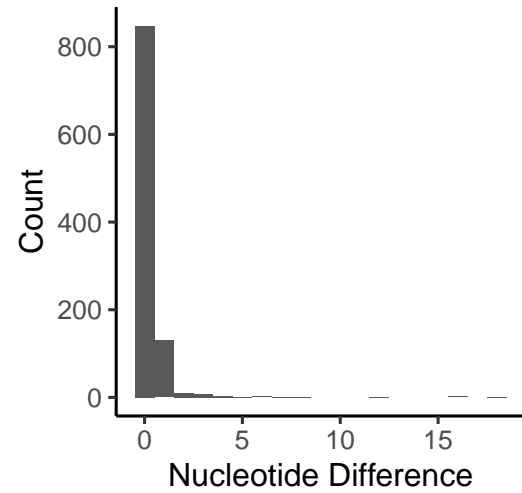
IGHV3-20*01

59 sequences assigned
51 (86.4%) exact matches, in which:
46 unique CDR3
5 unique J



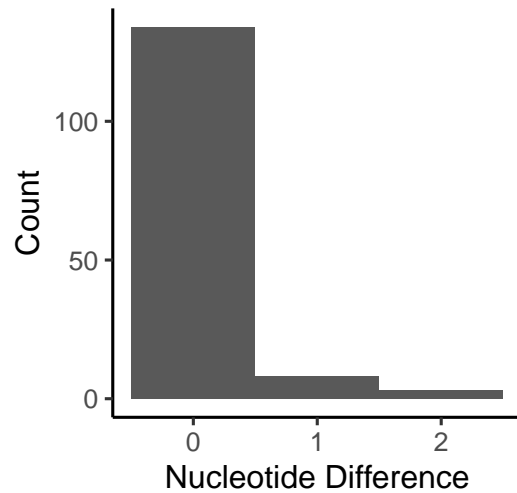
IGHV3-30-3*01

1008 sequences assigned
848 (84.1%) exact matches, in which:
772 unique CDR3
6 unique J



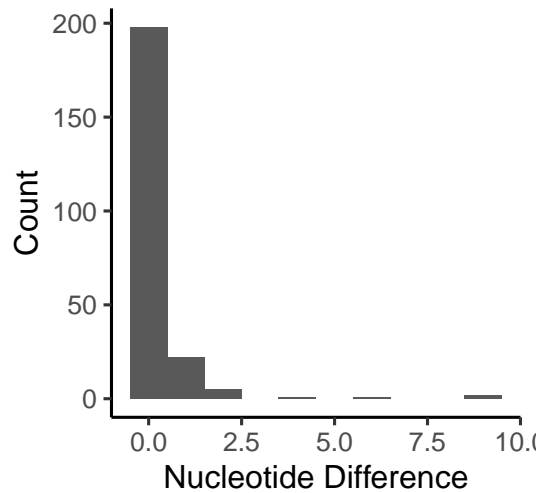
IGHV3-13*04

145 sequences assigned
134 (92.4%) exact matches, in which:
129 unique CDR3
5 unique J



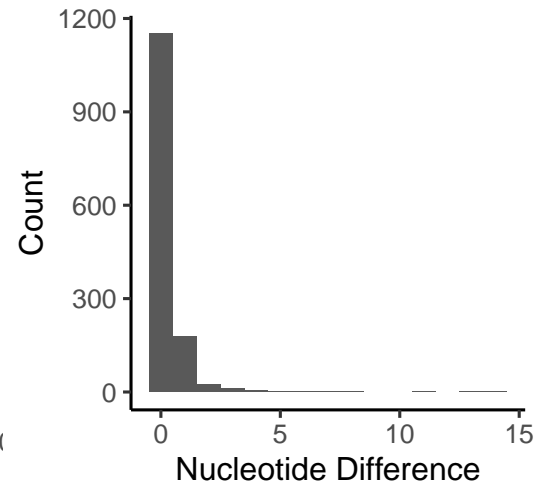
IGHV3-20*04

229 sequences assigned
198 (86.5%) exact matches, in which:
181 unique CDR3
6 unique J



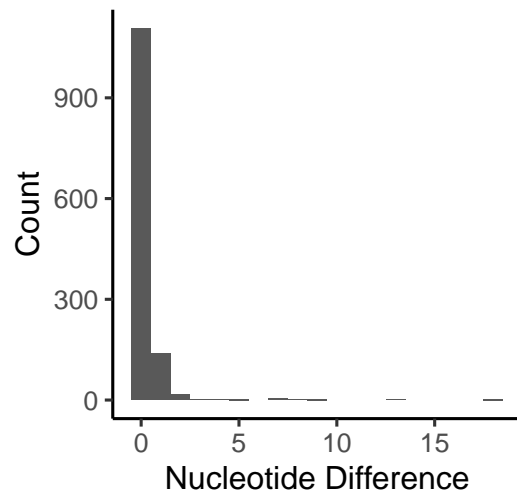
IGHV3-33*01

1383 sequences assigned
1151 (83.2%) exact matches, in which:
1043 unique CDR3
6 unique J



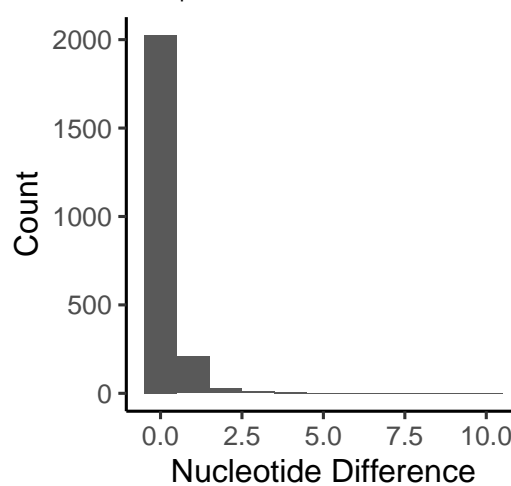
IGHV3-15*01

1282 sequences assigned
1107 (86.3%) exact matches, in which:
1038 unique CDR3
6 unique J



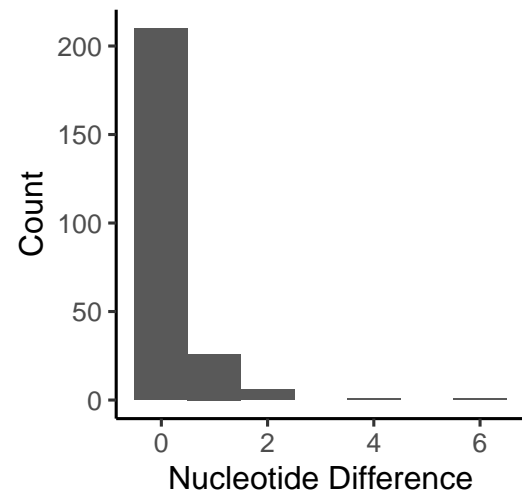
IGHV3-21*01

2291 sequences assigned
2026 (88.4%) exact matches, in which:
1847 unique CDR3
6 unique J



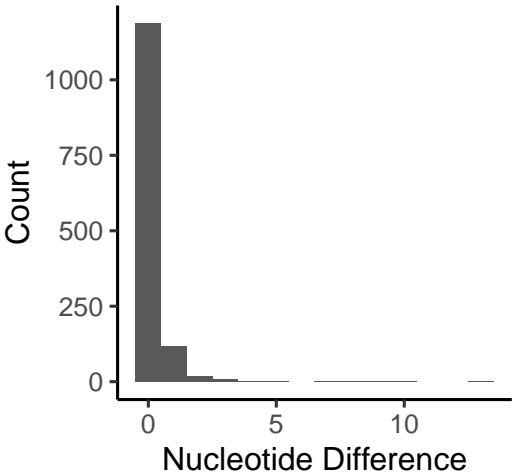
IGHV3-43*01

244 sequences assigned
210 (86.1%) exact matches, in which:
186 unique CDR3
6 unique J



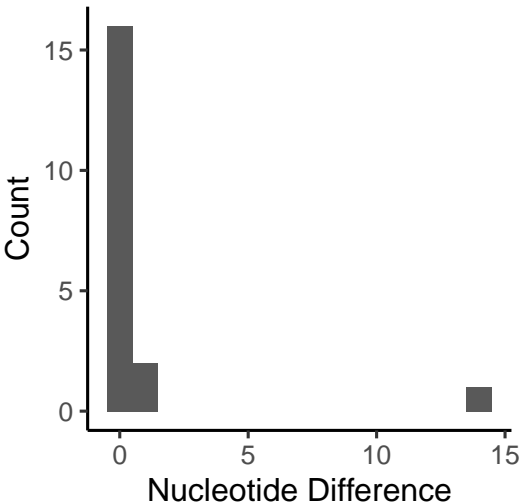
IGHV3-48*02

1344 sequences assigned
1187 (88.3%) exact matches, in which:
1095 unique CDR3
6 unique J



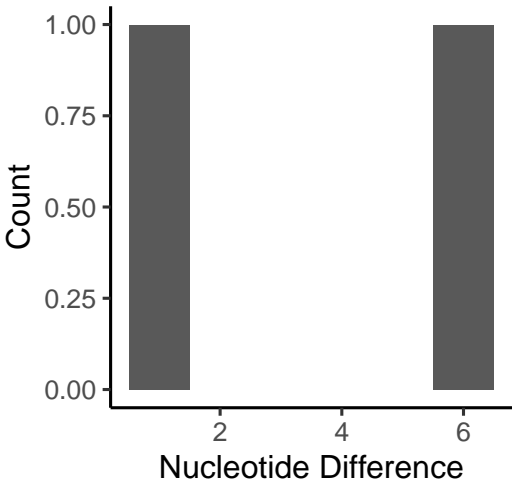
IGHV3-64*02

20 sequences assigned
16 (80%) exact matches, in which:
15 unique CDR3
4 unique J



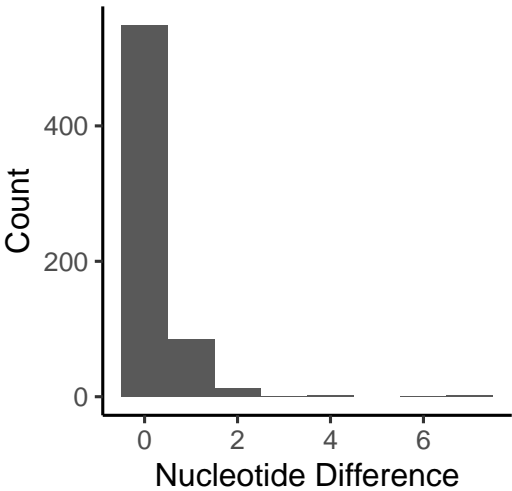
IGHV3-69-1*01

2 sequences assigned
No exact matches.



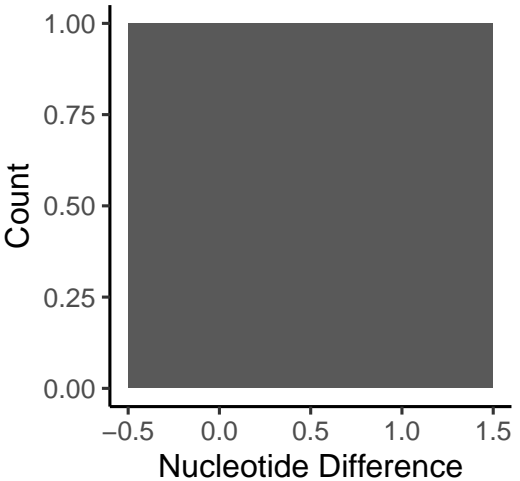
IGHV3-49*05

653 sequences assigned
549 (84.1%) exact matches, in which:
505 unique CDR3
6 unique J



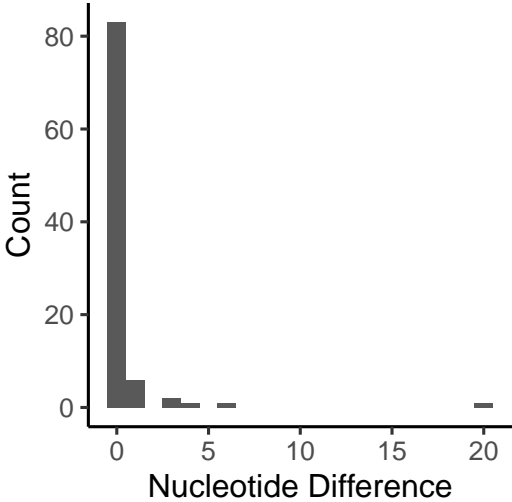
IGHV3-66*03

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



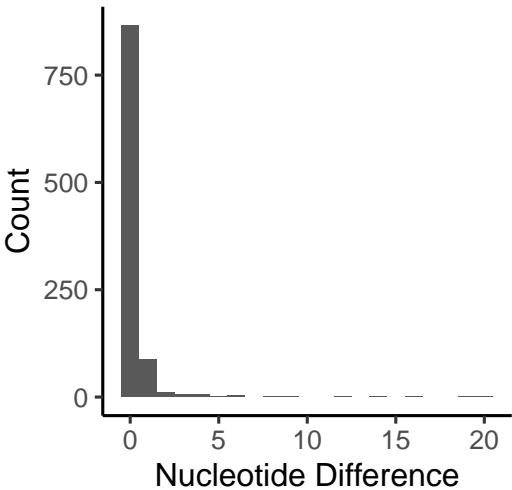
IGHV3-72*01

94 sequences assigned
83 (88.3%) exact matches, in which:
74 unique CDR3
5 unique J



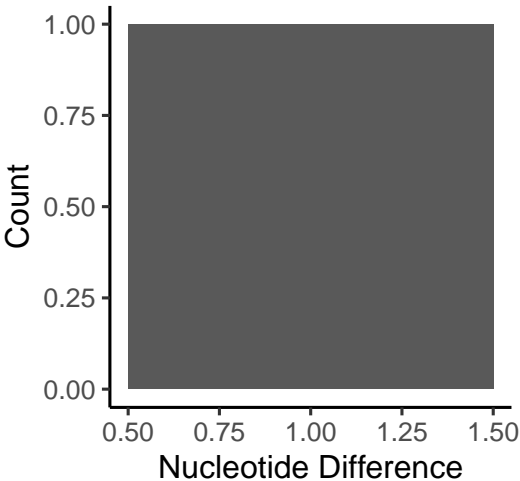
IGHV3-53*01

987 sequences assigned
866 (87.7%) exact matches, in which:
793 unique CDR3
6 unique J



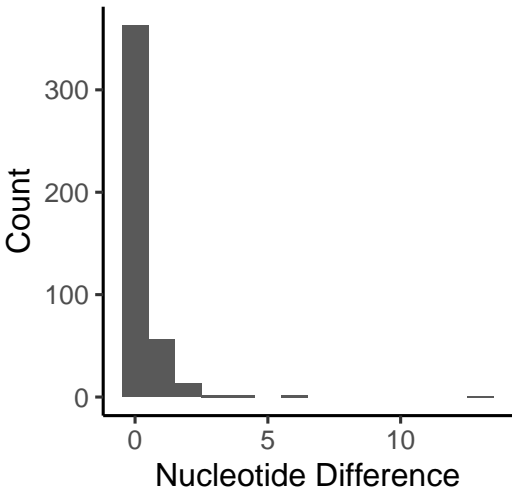
IGHV3-66*04

1 sequences assigned
No exact matches.



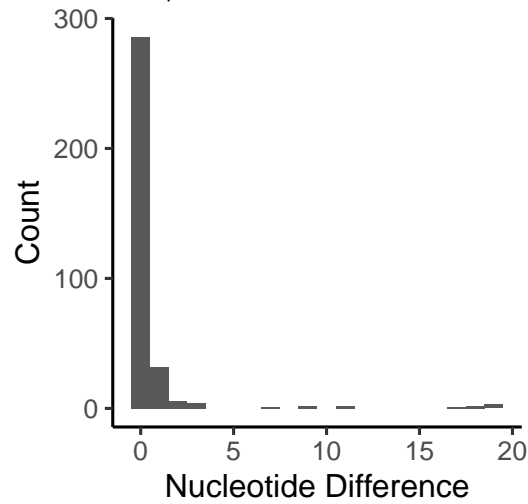
IGHV3-73*02

440 sequences assigned
363 (82.5%) exact matches, in which:
325 unique CDR3
6 unique J



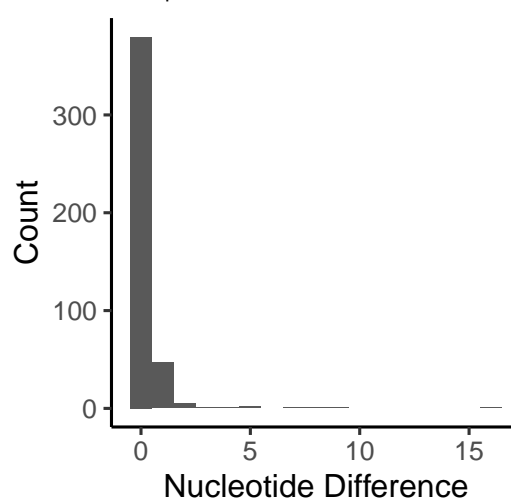
IGHV3-74*01

341 sequences assigned
286 (83.9%) exact matches, in which:
275 unique CDR3
6 unique J



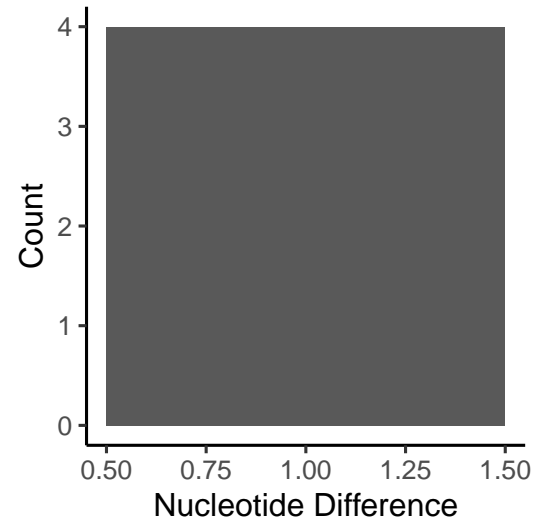
IGHV4-4*07

440 sequences assigned
380 (86.4%) exact matches, in which:
364 unique CDR3
6 unique J



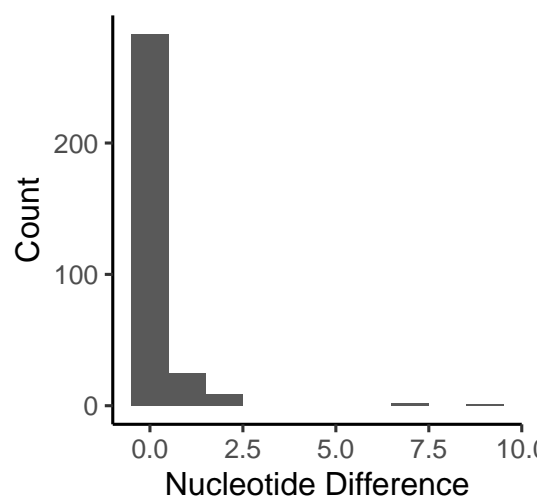
IGHV4-28*04

4 sequences assigned
No exact matches.



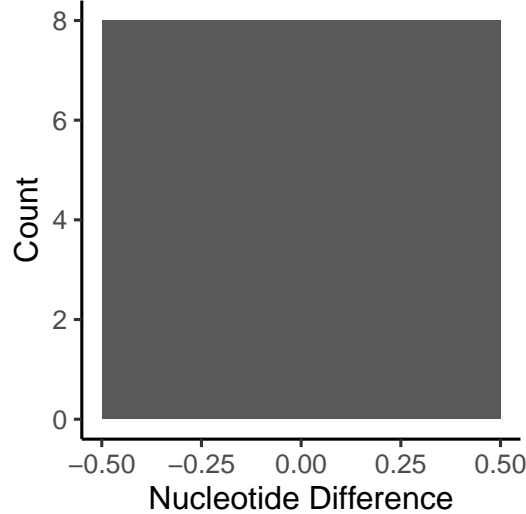
IGHV3-64D*06

320 sequences assigned
283 (88.4%) exact matches, in which:
260 unique CDR3
6 unique J



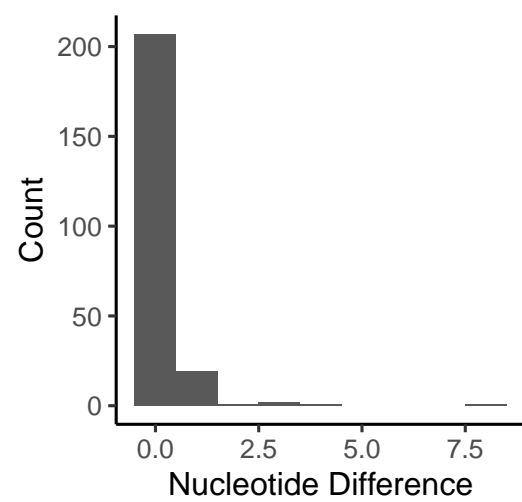
IGHV4-28*01

8 sequences assigned
8 (100%) exact matches, in which:
8 unique CDR3
4 unique J



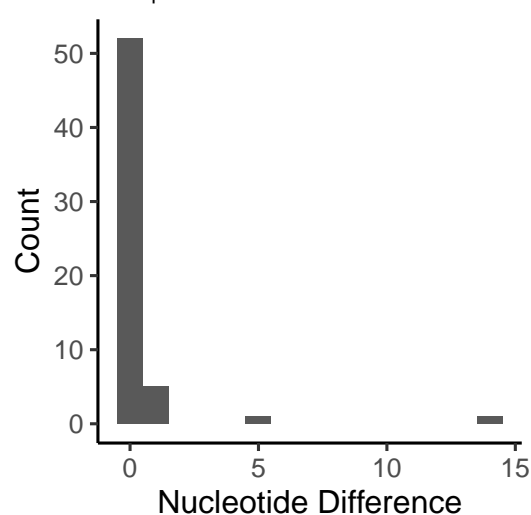
IGHV4-30-2*01

232 sequences assigned
207 (89.2%) exact matches, in which:
186 unique CDR3
5 unique J



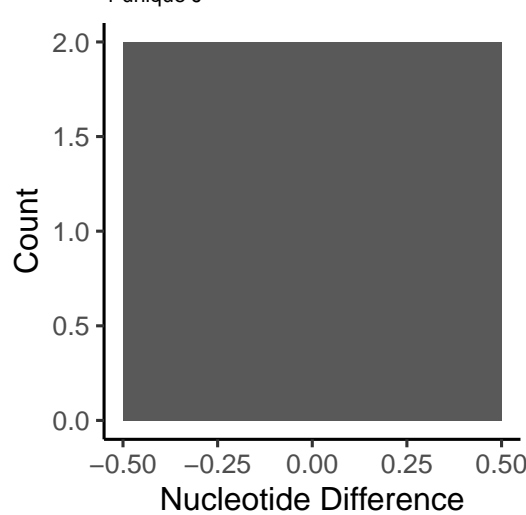
IGHV4-4*02

59 sequences assigned
52 (88.1%) exact matches, in which:
50 unique CDR3
5 unique J



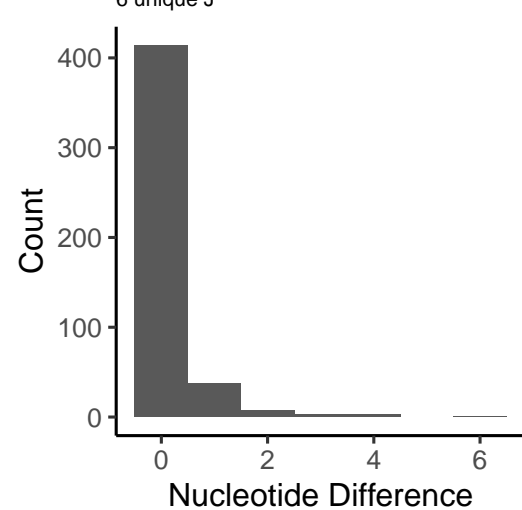
IGHV4-28*03

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



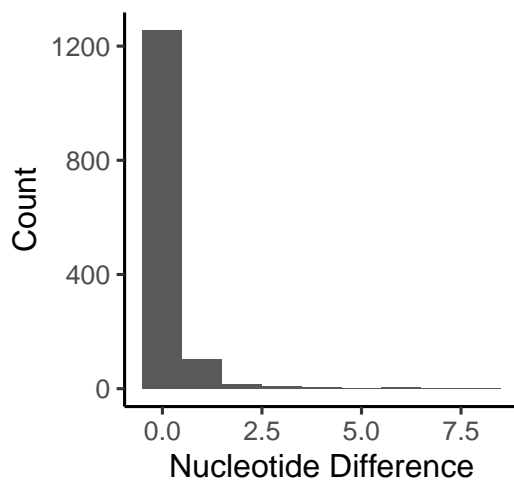
IGHV4-30-4*01

465 sequences assigned
414 (89%) exact matches, in which:
398 unique CDR3
6 unique J



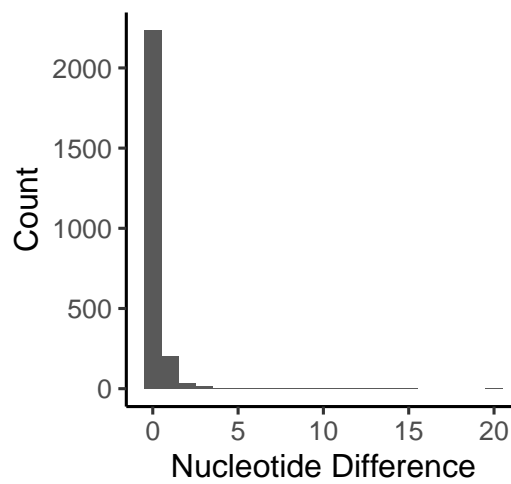
IGHV4-31*03

1398 sequences assigned
1255 (89.8%) exact matches, in which:
1181 unique CDR3
6 unique J



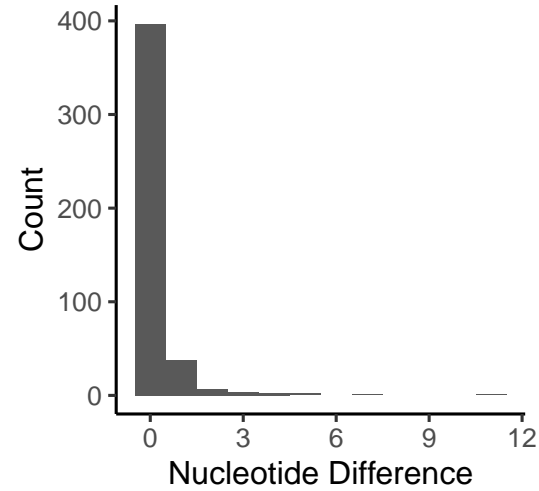
IGHV4-39*01

2523 sequences assigned
2234 (88.5%) exact matches, in which:
2061 unique CDR3
6 unique J



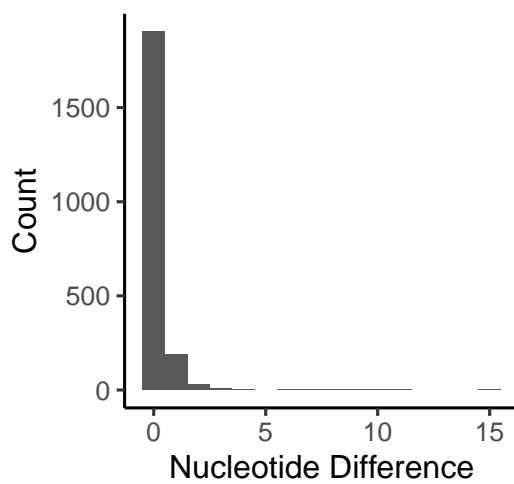
IGHV4-61*01

454 sequences assigned
397 (87.4%) exact matches, in which:
381 unique CDR3
6 unique J



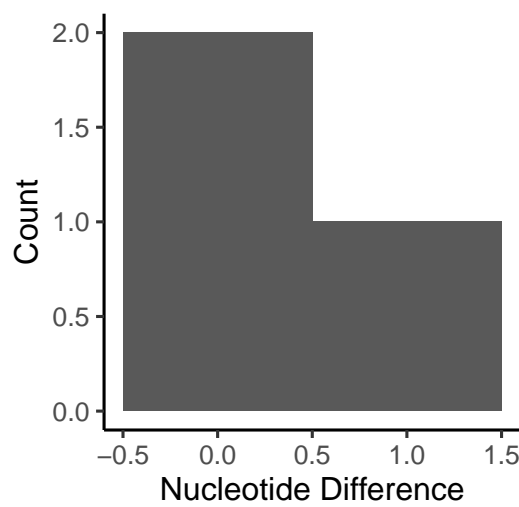
IGHV4-34*01

2146 sequences assigned
1903 (88.7%) exact matches, in which:
1764 unique CDR3
6 unique J



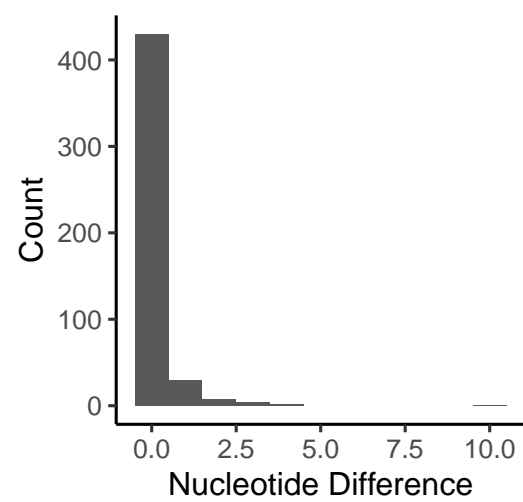
IGHV4-55*01

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



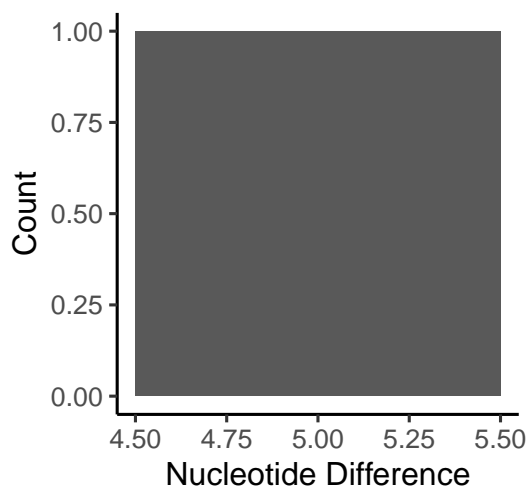
IGHV5-10-1*01

474 sequences assigned
430 (90.7%) exact matches, in which:
402 unique CDR3
6 unique J



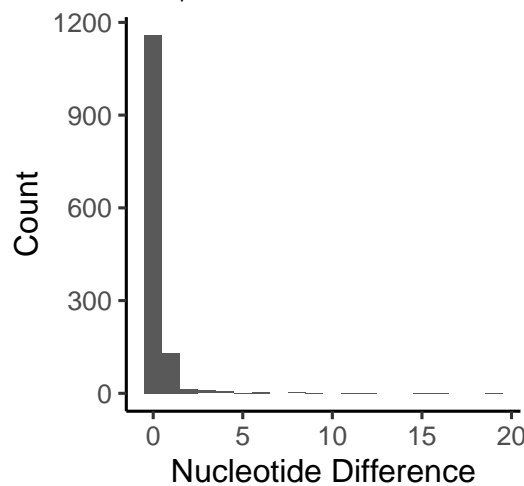
IGHV4-38-2*02

1 sequences assigned
No exact matches.



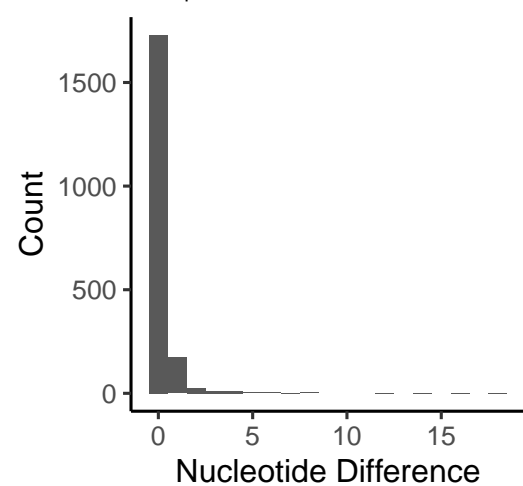
IGHV4-59*01

1335 sequences assigned
1159 (86.8%) exact matches, in which:
1106 unique CDR3
6 unique J



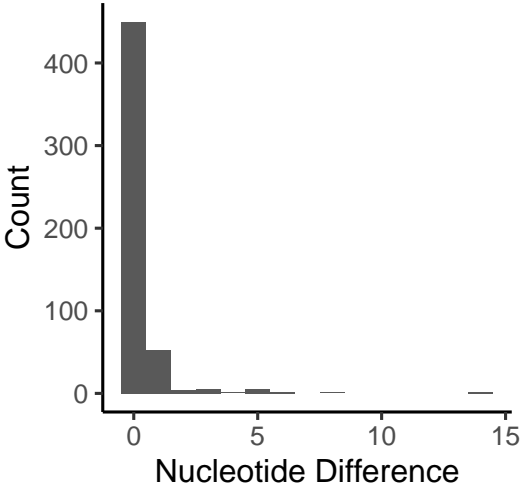
IGHV5-51*01

1975 sequences assigned
1729 (87.5%) exact matches, in which:
1620 unique CDR3
6 unique J



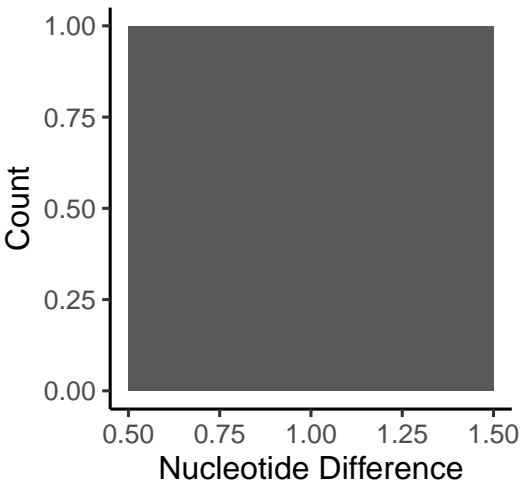
IGHV6-1*01

523 sequences assigned
450 (86%) exact matches, in which:
414 unique CDR3
6 unique J



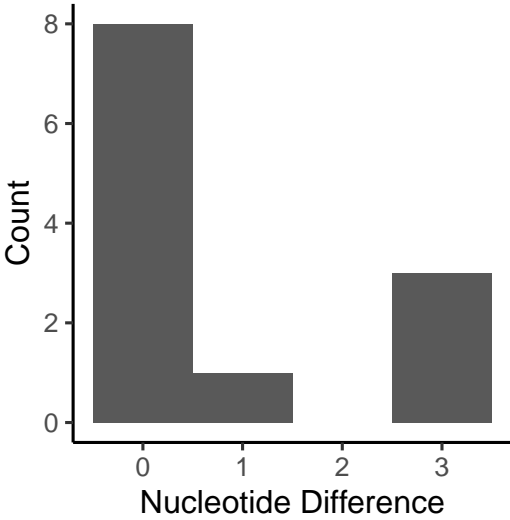
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



IGHV7-4-1*01

12 sequences assigned
8 (66.7%) exact matches, in which:
8 unique CDR3
3 unique J





Warning – no inferred sequences found.