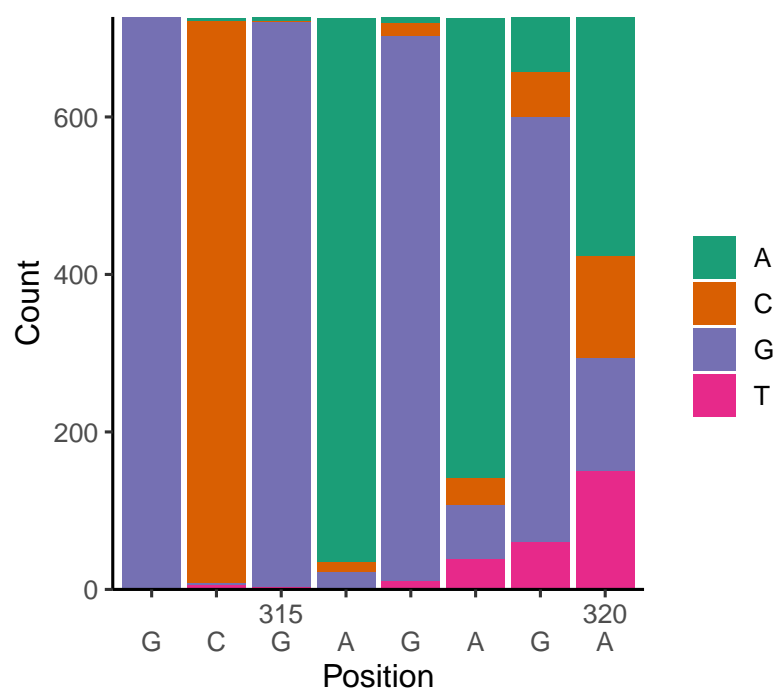


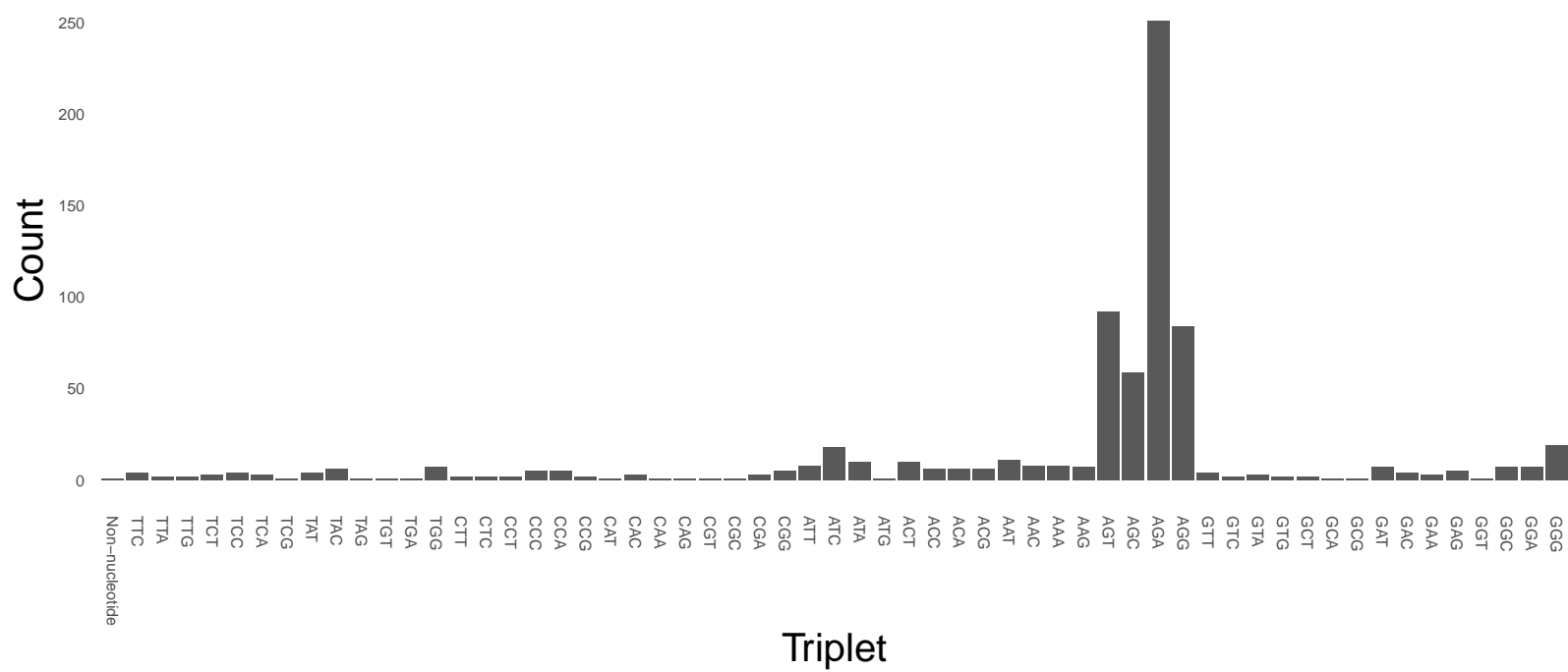
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

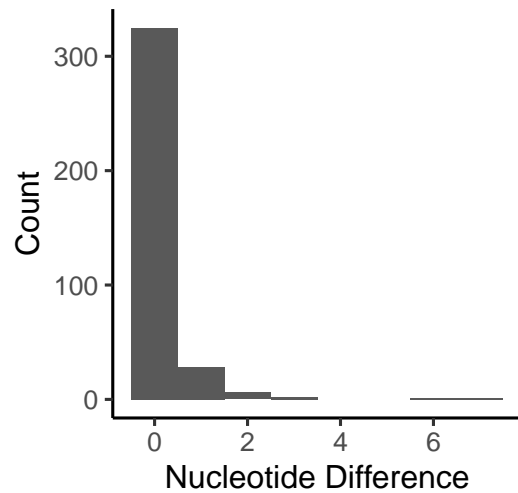


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



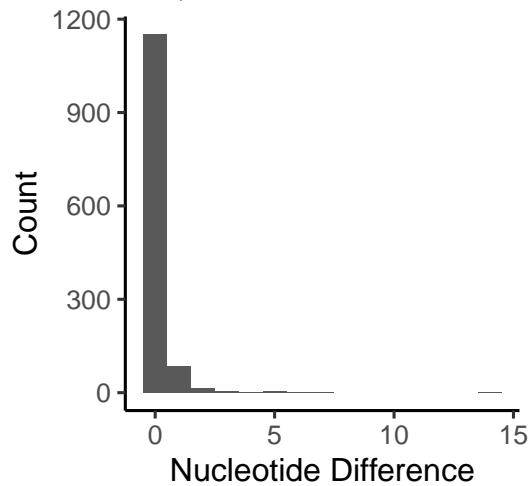
IGHV1-2*04

363 sequences assigned
325 (89.5%) exact matches, in which:
313 unique CDR3
7 unique J



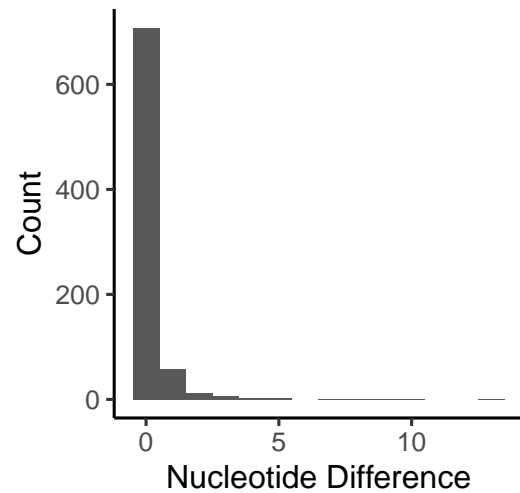
IGHV1-18*01

1268 sequences assigned
1151 (90.8%) exact matches, in which:
1123 unique CDR3
7 unique J



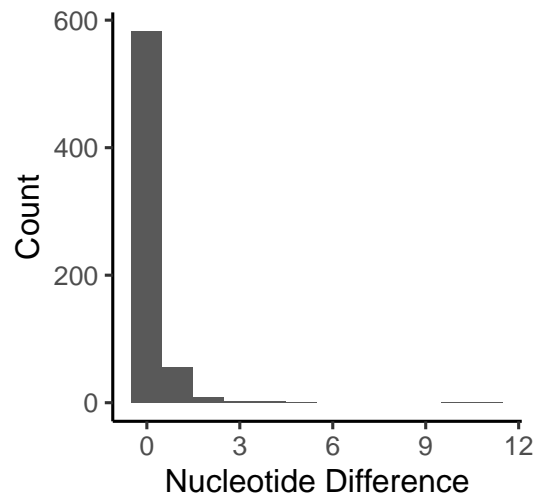
IGHV1-46*01

794 sequences assigned
708 (89.2%) exact matches, in which:
689 unique CDR3
7 unique J



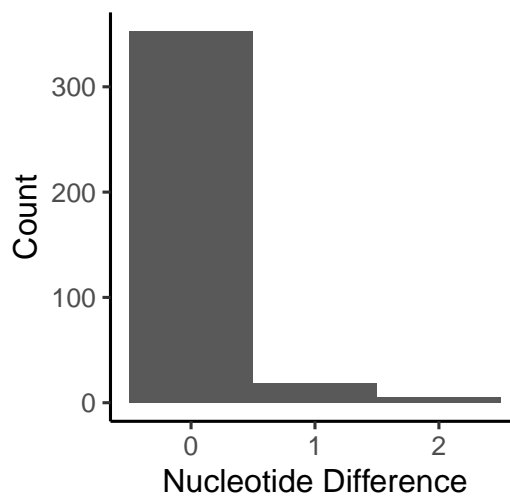
IGHV1-3*01

654 sequences assigned
583 (89.1%) exact matches, in which:
571 unique CDR3
7 unique J



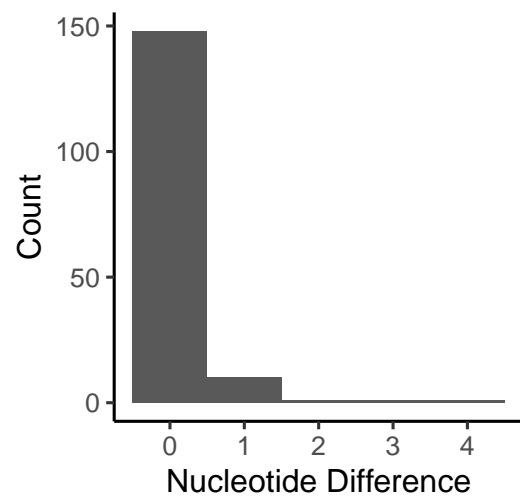
IGHV1-24*01

377 sequences assigned
353 (93.6%) exact matches, in which:
347 unique CDR3
7 unique J



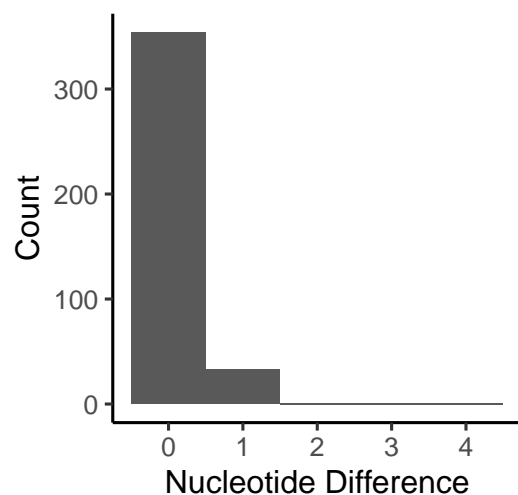
IGHV1-58*01

161 sequences assigned
148 (91.9%) exact matches, in which:
144 unique CDR3
7 unique J



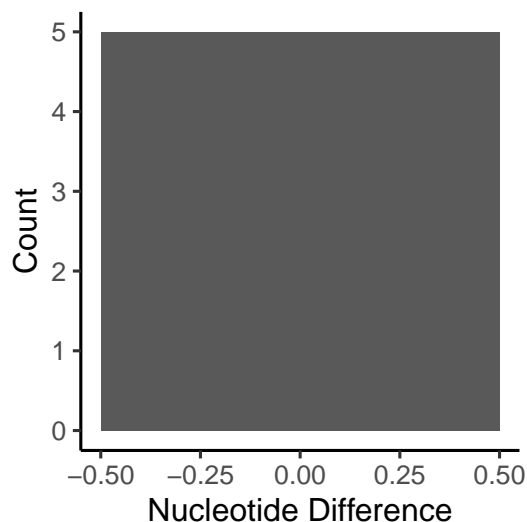
IGHV1-8*01

392 sequences assigned
354 (90.3%) exact matches, in which:
342 unique CDR3
7 unique J



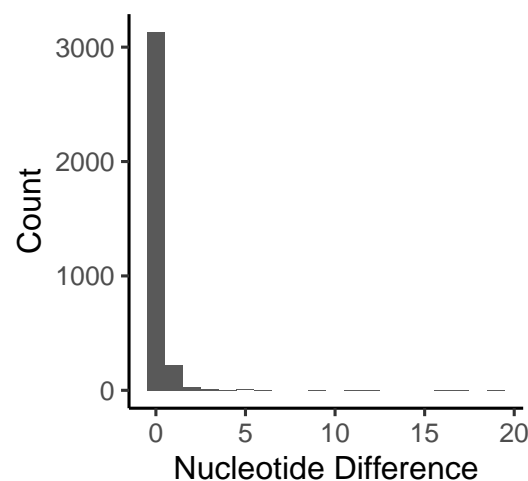
IGHV1-45*02

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



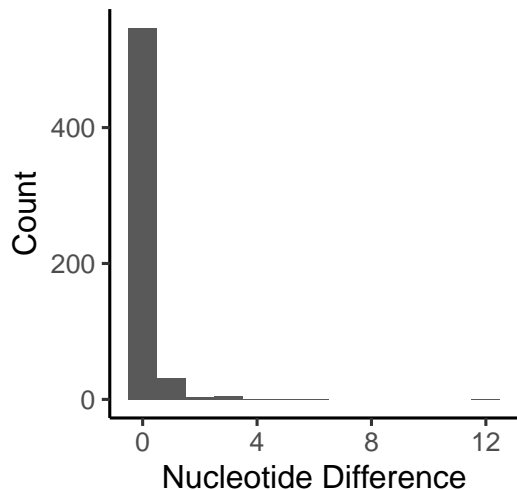
IGHV1-69*01

3414 sequences assigned
3132 (91.7%) exact matches, in which:
3056 unique CDR3
7 unique J



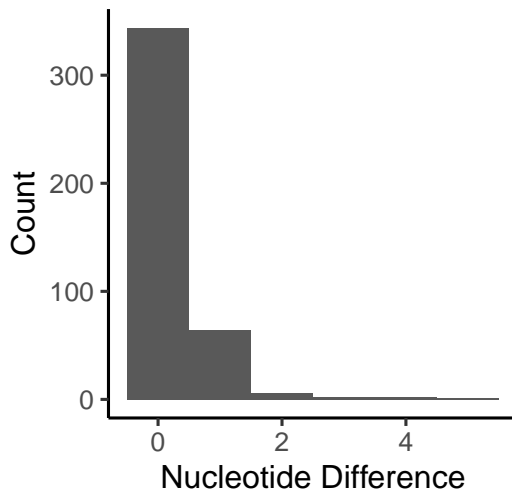
IGHV2-5*02

590 sequences assigned
547 (92.7%) exact matches, in which:
537 unique CDR3
7 unique J



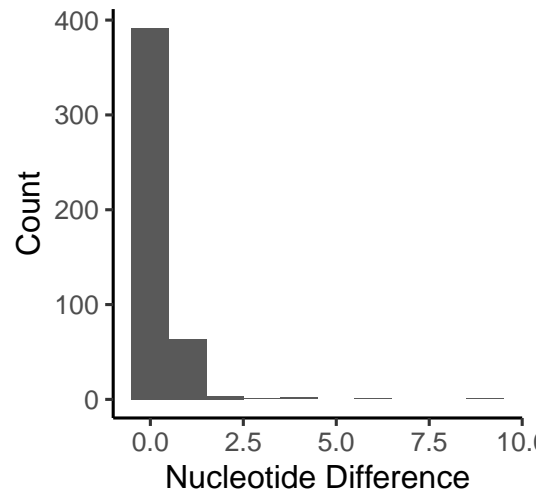
IGHV3-7*01

420 sequences assigned
344 (81.9%) exact matches, in which:
328 unique CDR3
7 unique J



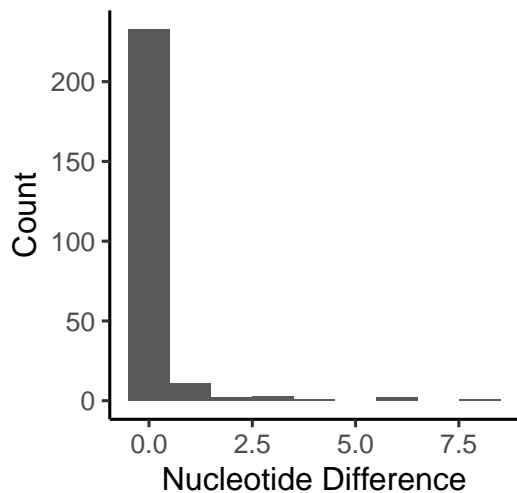
IGHV3-11*01

465 sequences assigned
392 (84.3%) exact matches, in which:
377 unique CDR3
6 unique J



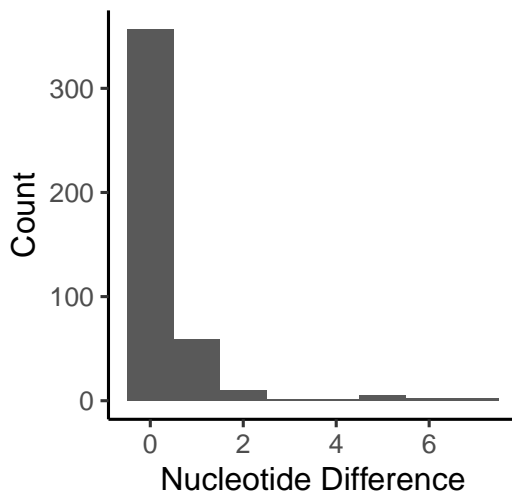
IGHV2-26*01

253 sequences assigned
233 (92.1%) exact matches, in which:
232 unique CDR3
6 unique J



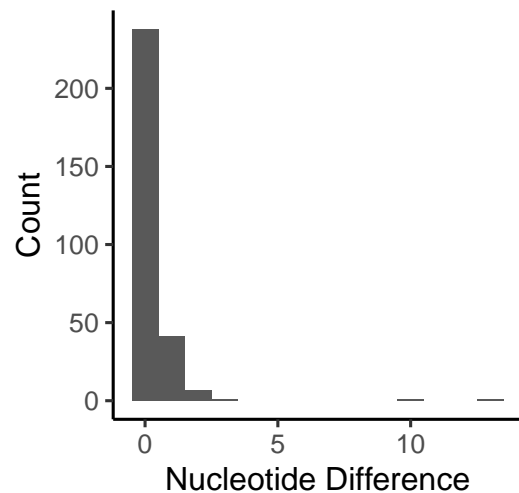
IGHV3-7*03

439 sequences assigned
357 (81.3%) exact matches, in which:
343 unique CDR3
6 unique J



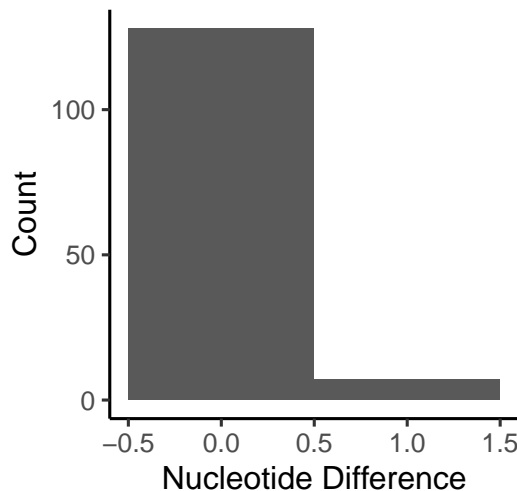
IGHV3-11*06

289 sequences assigned
238 (82.4%) exact matches, in which:
230 unique CDR3
6 unique J



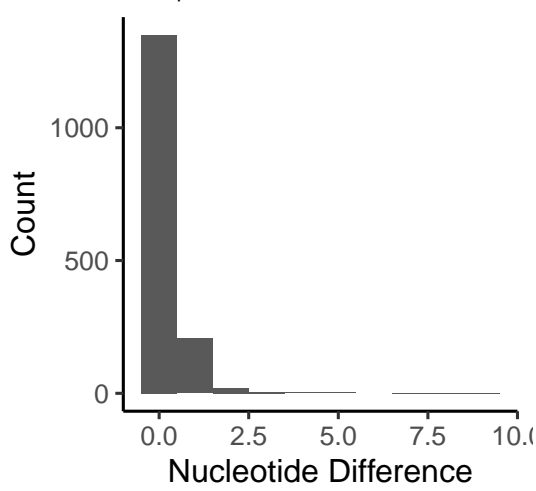
IGHV2-70*01

135 sequences assigned
128 (94.8%) exact matches, in which:
126 unique CDR3
6 unique J



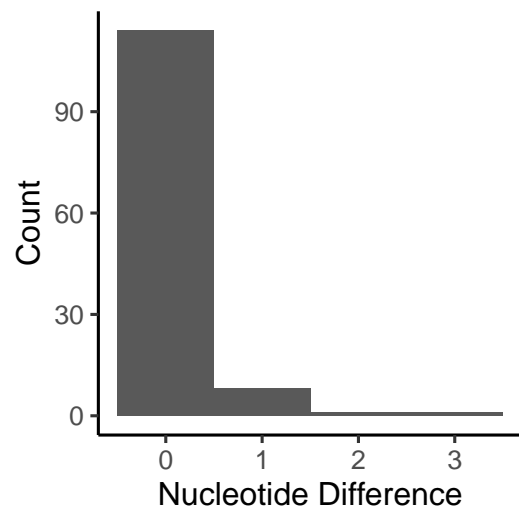
IGHV3-9*01

1589 sequences assigned
1349 (84.9%) exact matches, in which:
1263 unique CDR3
6 unique J



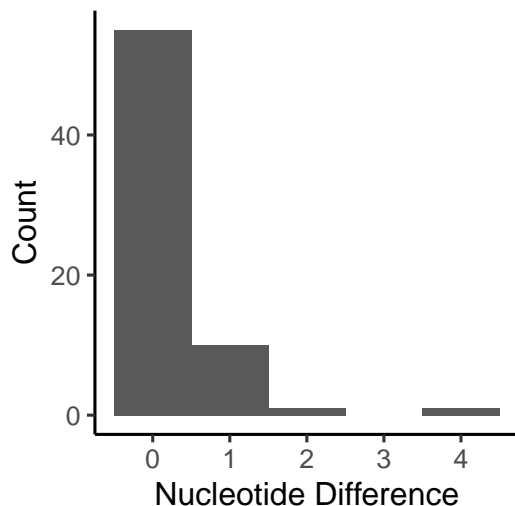
IGHV3-13*01

124 sequences assigned
114 (91.9%) exact matches, in which:
113 unique CDR3
6 unique J



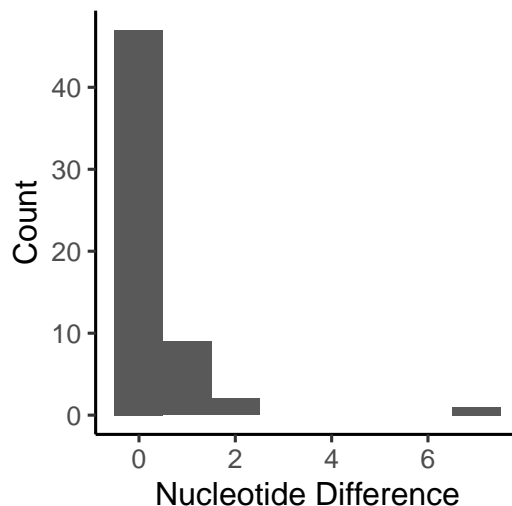
IGHV3-13*05

67 sequences assigned
55 (82.1%) exact matches, in which:
54 unique CDR3
4 unique J



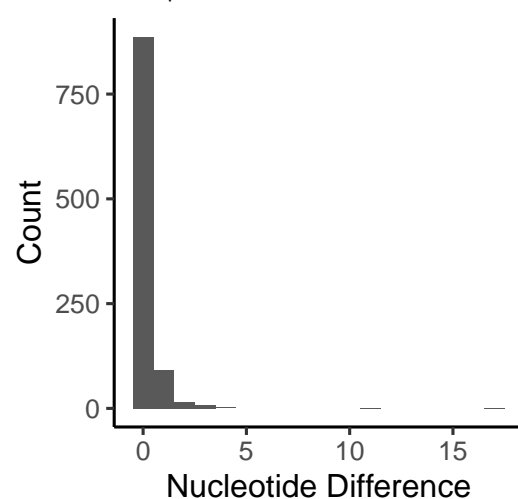
IGHV3-20*04

59 sequences assigned
47 (79.7%) exact matches, in which:
43 unique CDR3
5 unique J



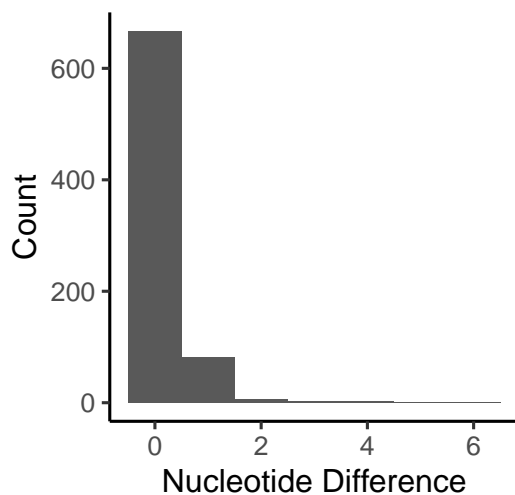
IGHV3-30*01

1007 sequences assigned
887 (88.1%) exact matches, in which:
843 unique CDR3
6 unique J



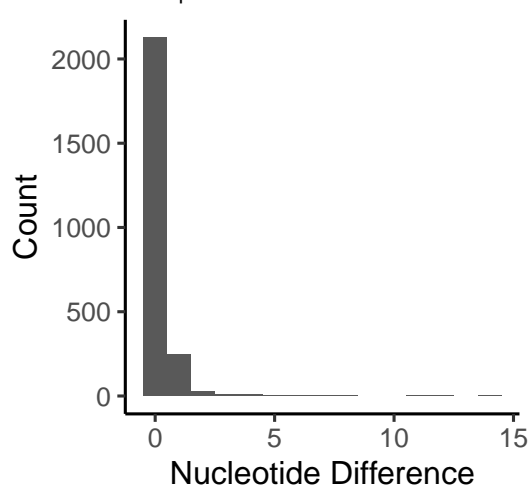
IGHV3-15*01

762 sequences assigned
667 (87.5%) exact matches, in which:
646 unique CDR3
7 unique J



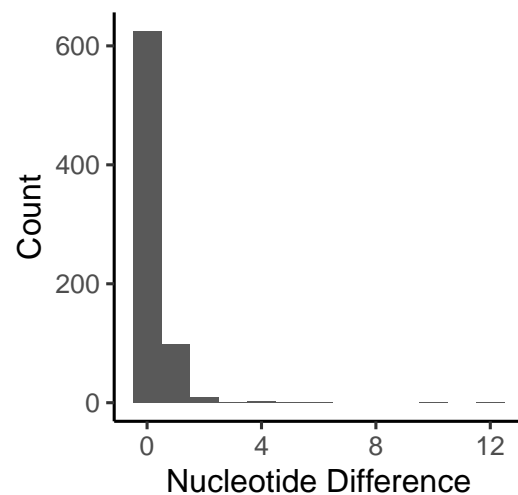
IGHV3-21*01

2431 sequences assigned
2126 (87.5%) exact matches, in which:
2005 unique CDR3
7 unique J



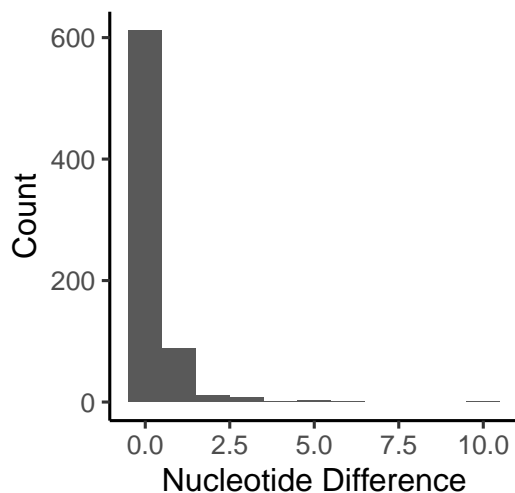
IGHV3-30*18

742 sequences assigned
625 (84.2%) exact matches, in which:
609 unique CDR3
7 unique J



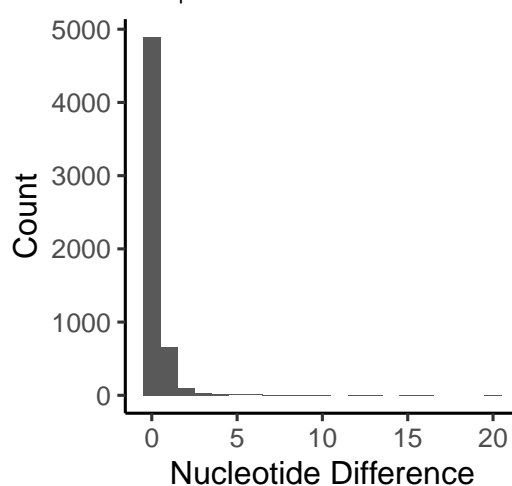
IGHV3-15*07

723 sequences assigned
612 (84.6%) exact matches, in which:
595 unique CDR3
6 unique J



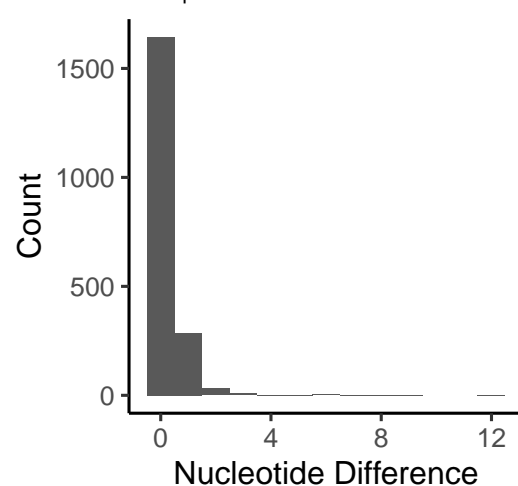
IGHV3-23*01

5747 sequences assigned
4893 (85.1%) exact matches, in which:
4645 unique CDR3
7 unique J



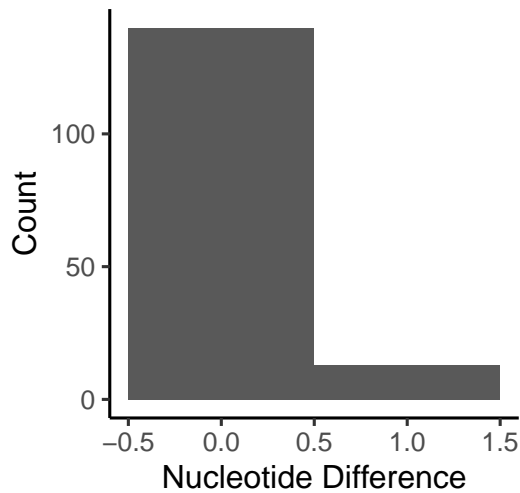
IGHV3-33*01

1980 sequences assigned
1644 (83%) exact matches, in which:
1570 unique CDR3
7 unique J



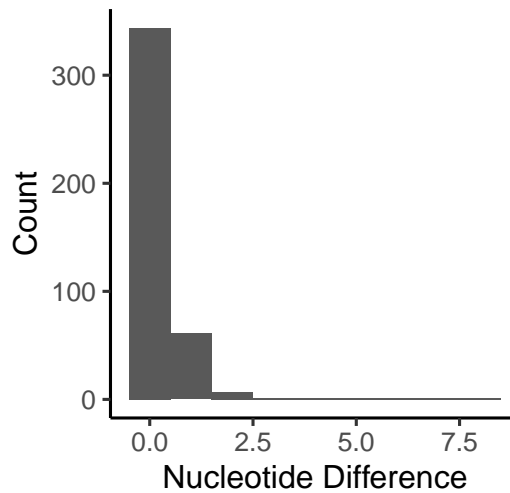
IGHV3-43*01

153 sequences assigned
140 (91.5%) exact matches, in which:
137 unique CDR3
6 unique J



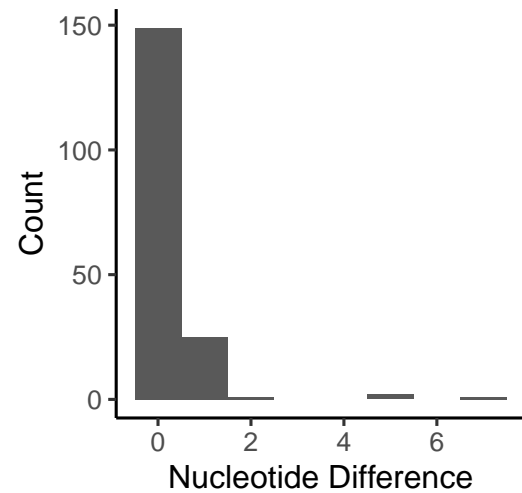
IGHV3-49*04

419 sequences assigned
344 (82.1%) exact matches, in which:
326 unique CDR3
5 unique J



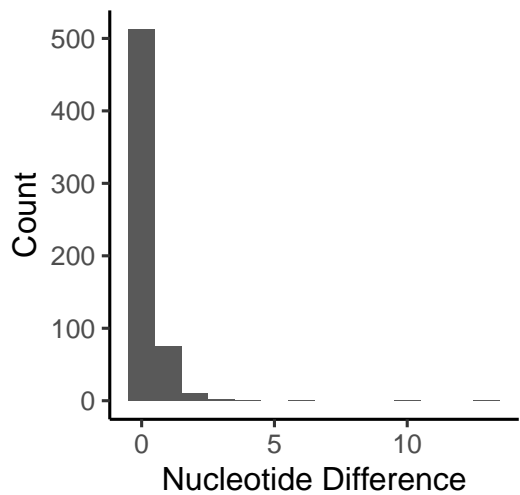
IGHV3-53*02

178 sequences assigned
149 (83.7%) exact matches, in which:
146 unique CDR3
6 unique J



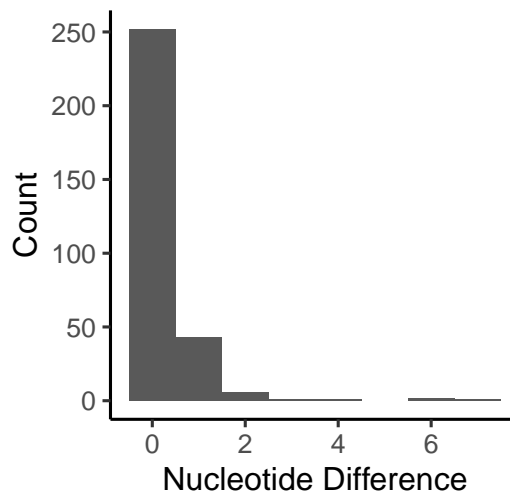
IGHV3-48*02

604 sequences assigned
513 (84.9%) exact matches, in which:
505 unique CDR3
7 unique J



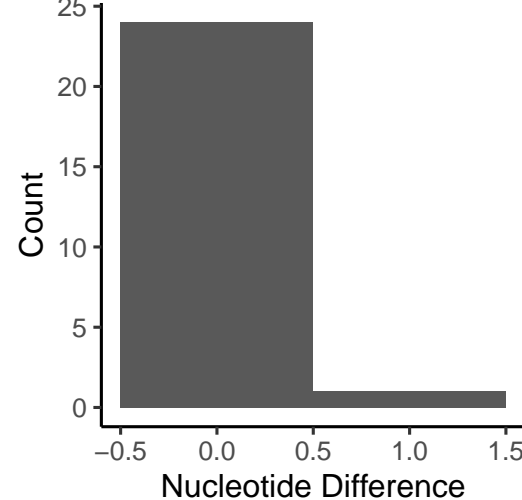
IGHV3-49*05

306 sequences assigned
252 (82.4%) exact matches, in which:
243 unique CDR3
6 unique J



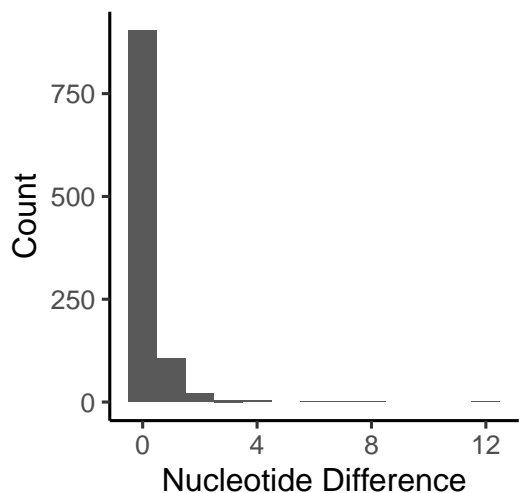
IGHV3-64*02

25 sequences assigned
24 (96%) exact matches, in which:
24 unique CDR3
5 unique J



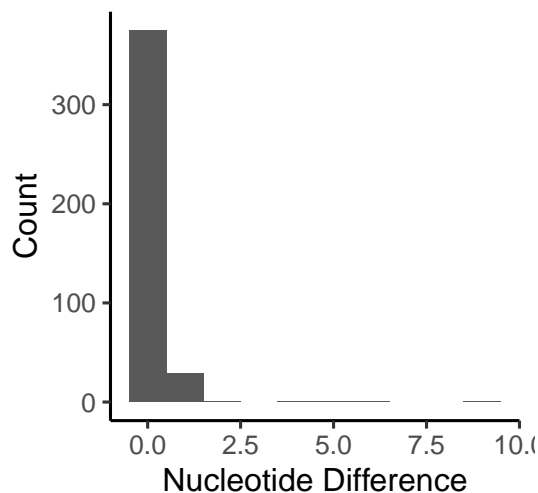
IGHV3-48*03

1044 sequences assigned
904 (86.6%) exact matches, in which:
866 unique CDR3
7 unique J



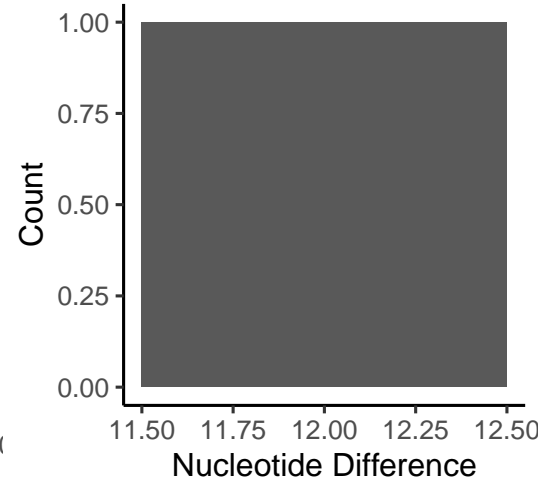
IGHV3-53*01

409 sequences assigned
375 (91.7%) exact matches, in which:
363 unique CDR3
6 unique J



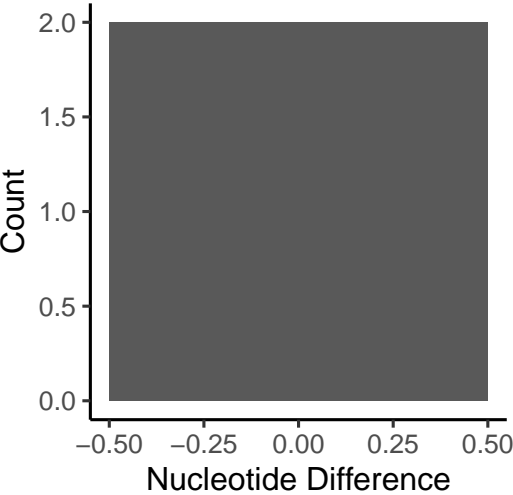
IGHV3-66*01

1 sequences assigned
No exact matches.



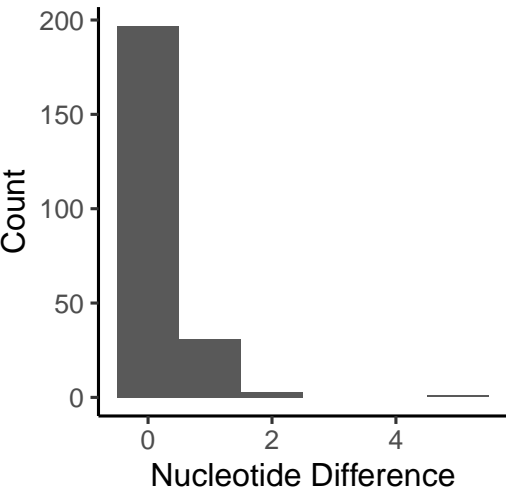
IGHV3-66*03

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



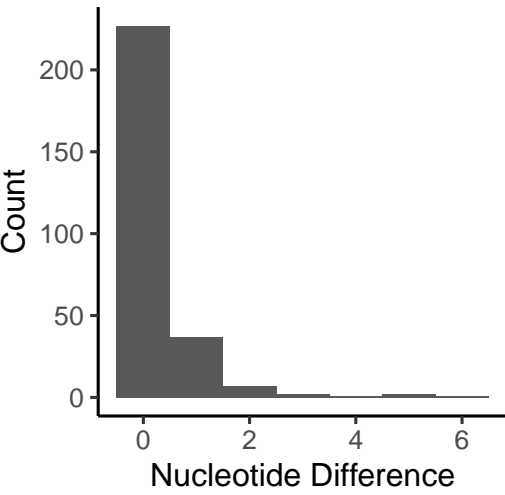
IGHV3-73*02

232 sequences assigned
197 (84.9%) exact matches, in which:
188 unique CDR3
7 unique J



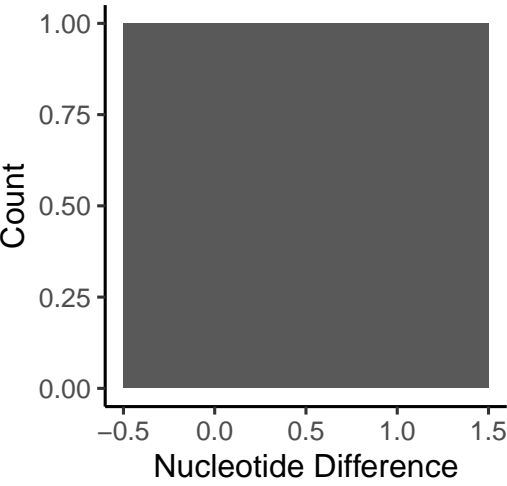
IGHV3-64D*06

277 sequences assigned
227 (81.9%) exact matches, in which:
221 unique CDR3
6 unique J



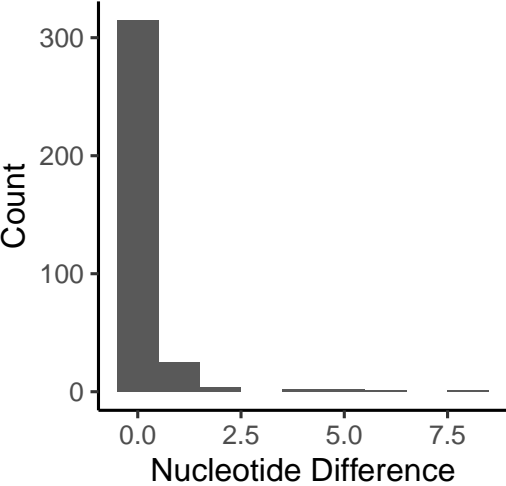
IGHV3-66*04

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



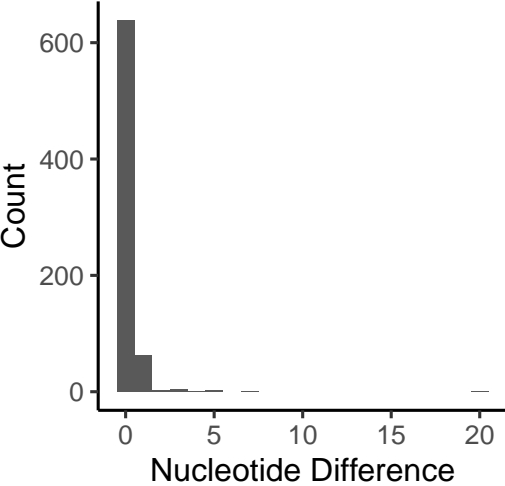
IGHV3-74*01

350 sequences assigned
315 (90%) exact matches, in which:
309 unique CDR3
7 unique J



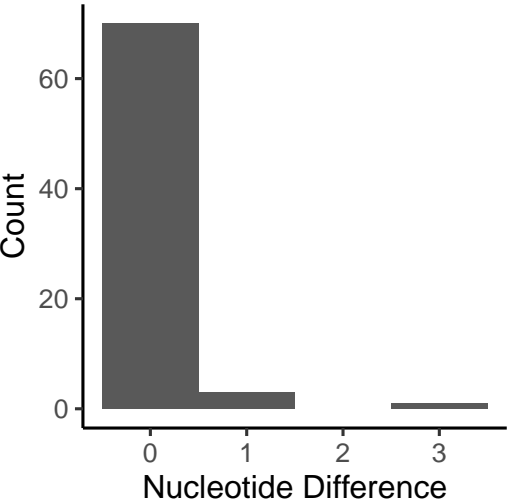
IGHV4-4*02

714 sequences assigned
639 (89.5%) exact matches, in which:
625 unique CDR3
7 unique J



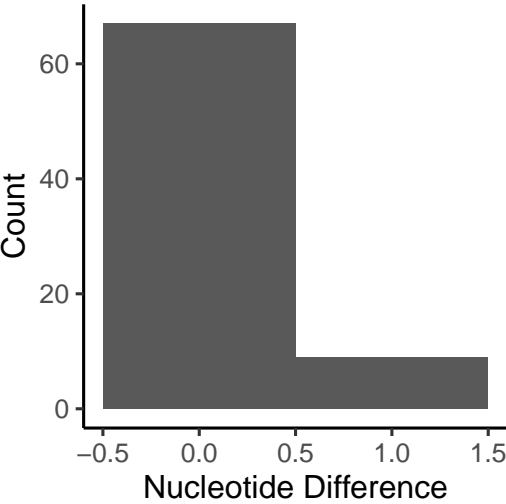
IGHV3-72*01

74 sequences assigned
70 (94.6%) exact matches, in which:
69 unique CDR3
7 unique J



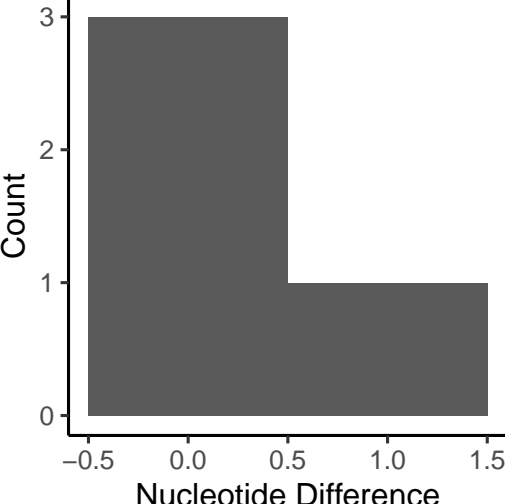
IGHV3-43D*04

76 sequences assigned
67 (88.2%) exact matches, in which:
66 unique CDR3
5 unique J



IGHV4-28*01

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



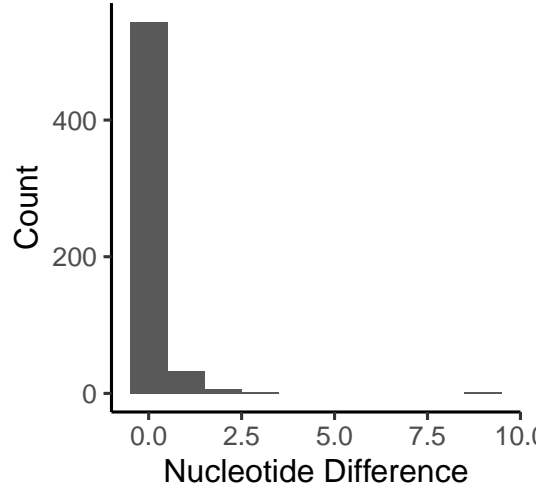
IGHV4-28*02

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



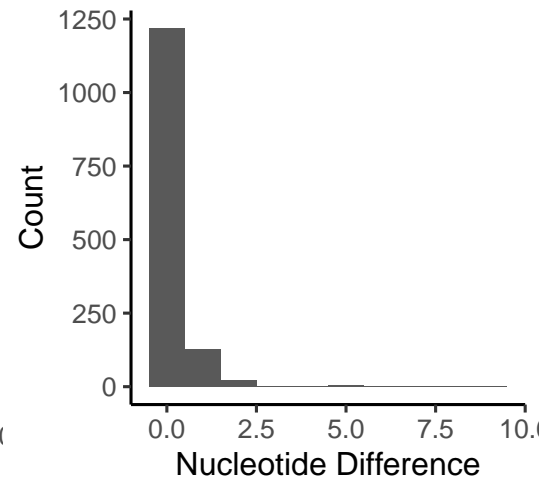
IGHV4-31*03

588 sequences assigned
544 (92.5%) exact matches, in which:
533 unique CDR3
7 unique J



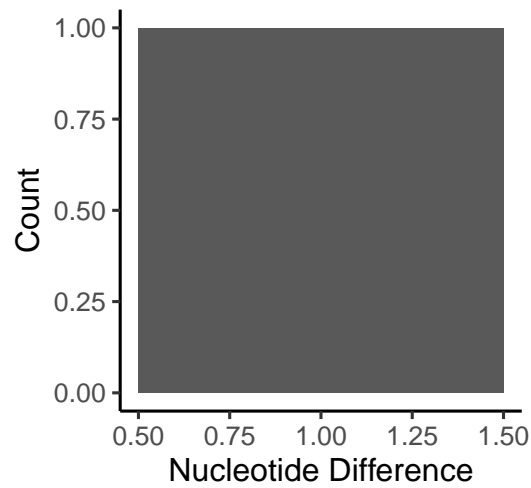
IGHV4-39*01

1381 sequences assigned
1218 (88.2%) exact matches, in which:
1185 unique CDR3
6 unique J



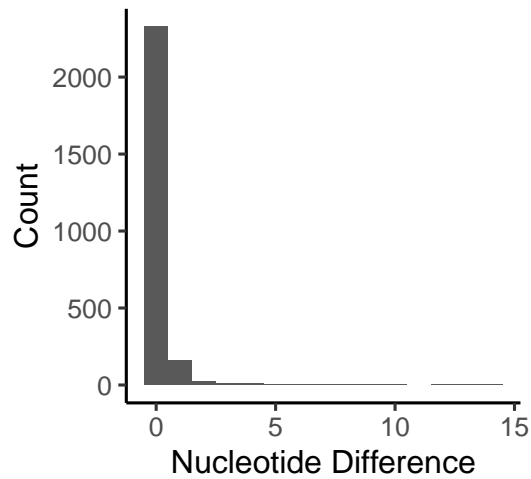
IGHV4-30-2*03

1 sequences assigned
No exact matches.



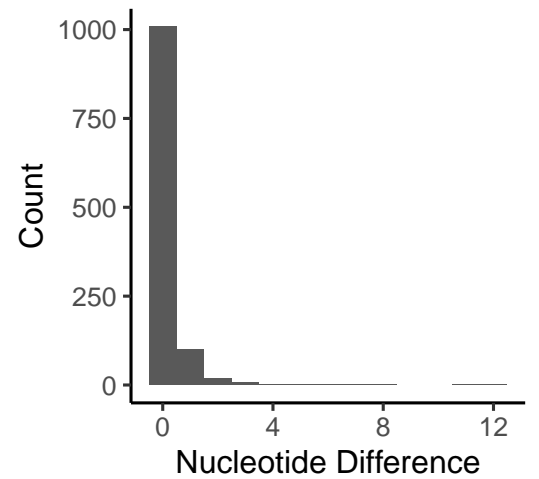
IGHV4-34*01

2556 sequences assigned
2327 (91%) exact matches, in which:
2241 unique CDR3
7 unique J



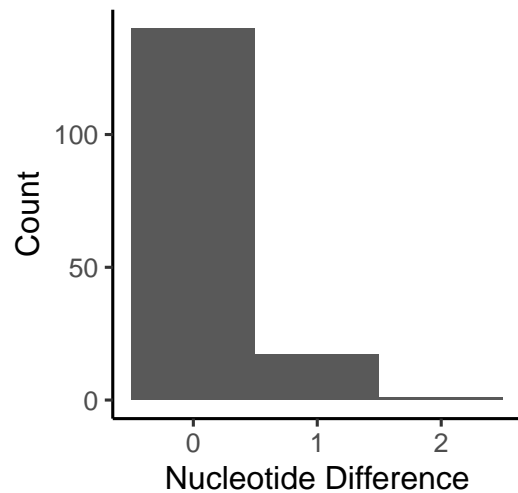
IGHV4-59*01

1144 sequences assigned
1008 (88.1%) exact matches, in which:
985 unique CDR3
7 unique J



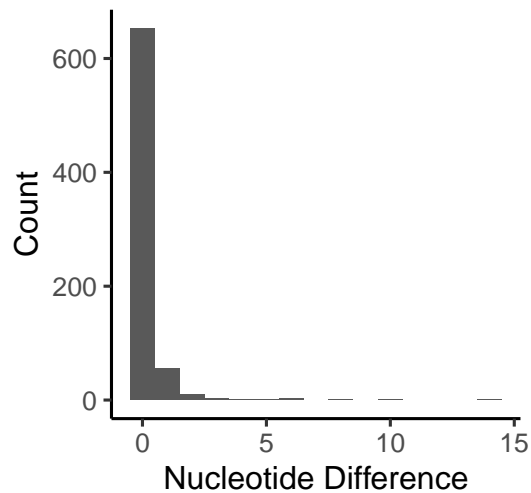
IGHV4-31*01

158 sequences assigned
140 (88.6%) exact matches, in which:
138 unique CDR3
5 unique J



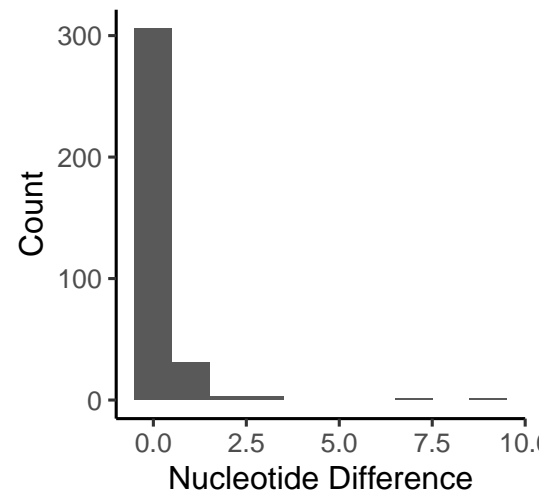
IGHV4-38-2*02_A70G

727 sequences assigned
653 (89.8%) exact matches, in which:
627 unique CDR3
6 unique J



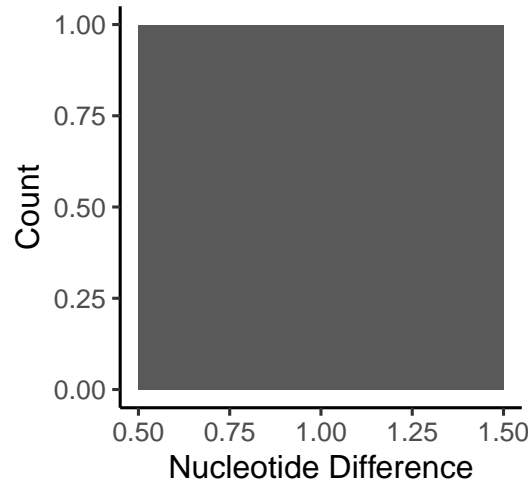
IGHV4-61*01

345 sequences assigned
306 (88.7%) exact matches, in which:
301 unique CDR3
7 unique J



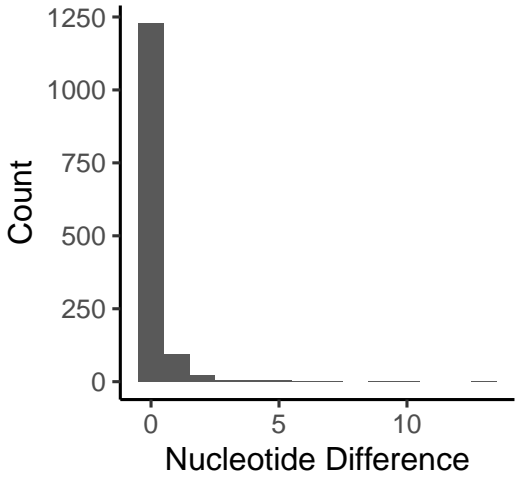
IGHV1/OR15-2*01

1 sequences assigned
No exact matches.



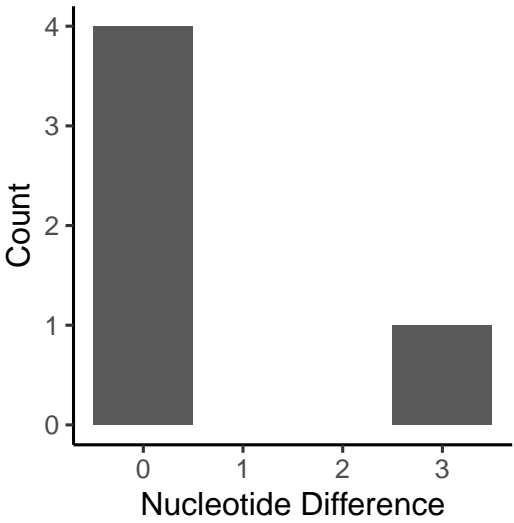
IGHV5-51*01

1369 sequences assigned
1228 (89.7%) exact matches, in which:
1189 unique CDR3
7 unique J



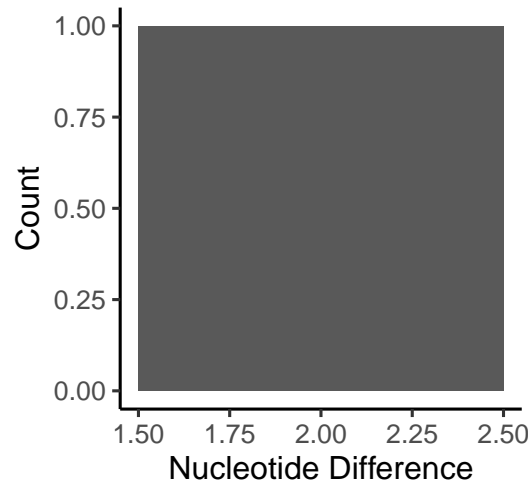
IGHV7-4-1*01

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
3 unique J



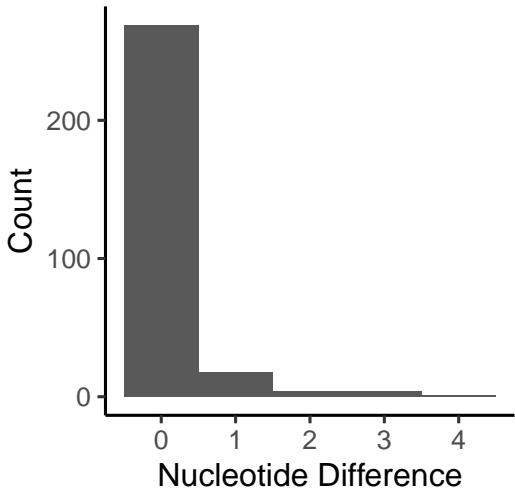
IGHV1/OR15-4*01

1 sequences assigned
No exact matches.



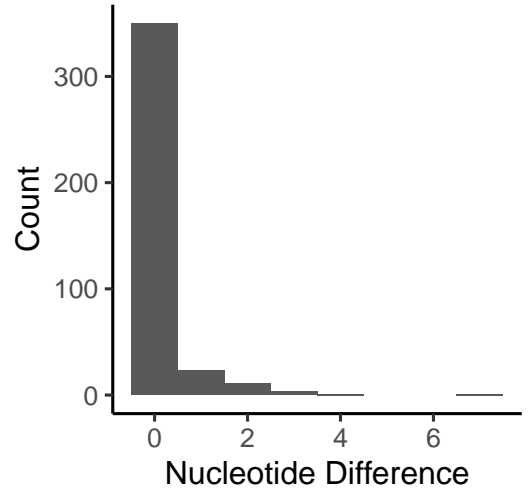
IGHV6-1*01

296 sequences assigned
269 (90.9%) exact matches, in which:
260 unique CDR3
7 unique J



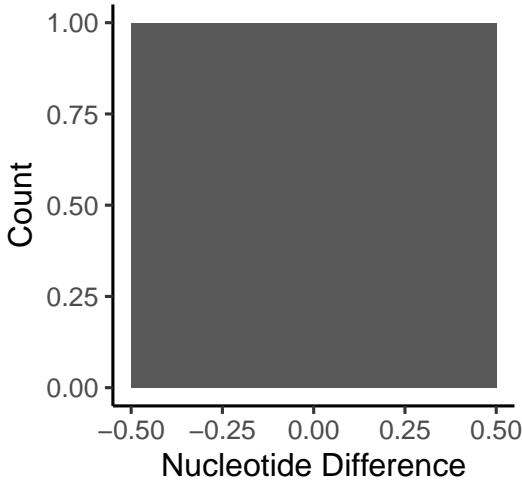
IGHV5-10-1*03

389 sequences assigned
350 (90%) exact matches, in which:
344 unique CDR3
7 unique J

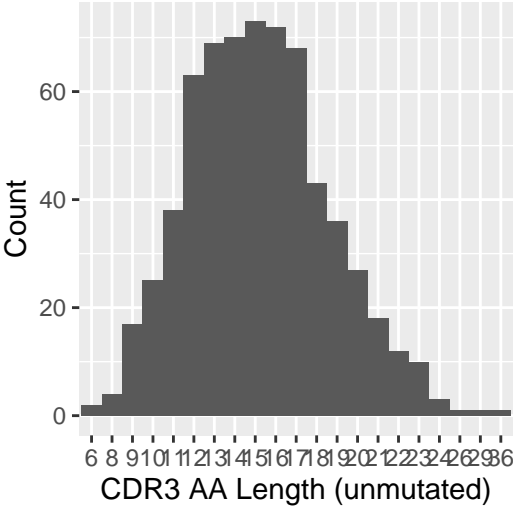


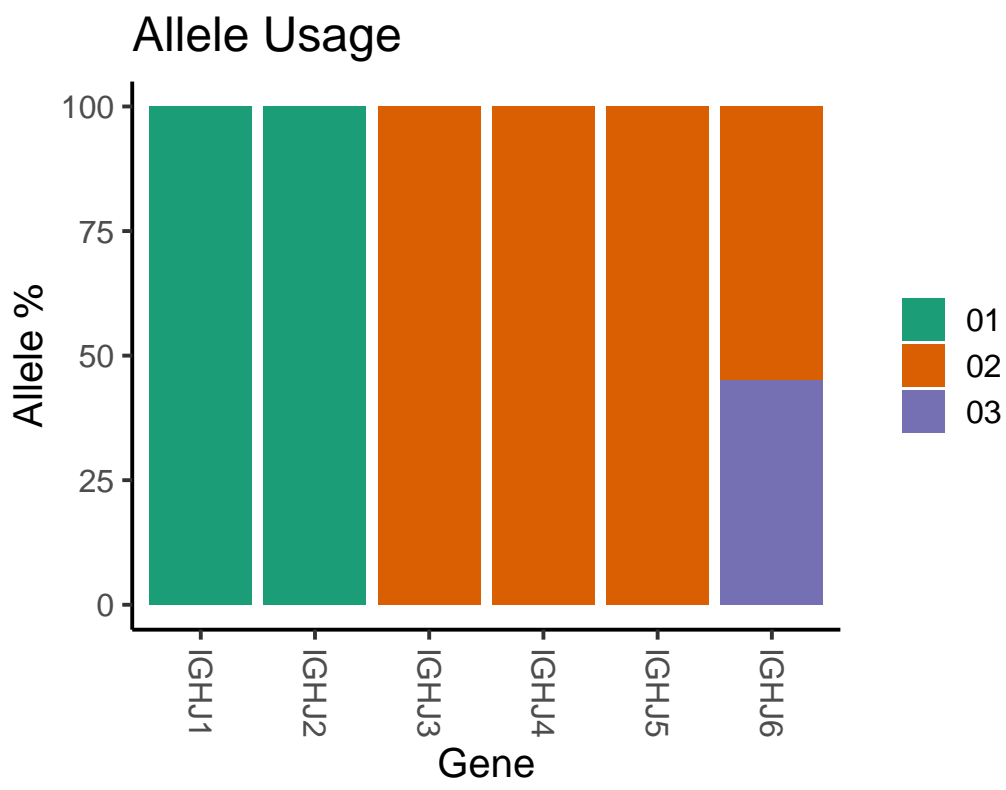
IGHV3/OR16-12*01

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



IGHV4-38-2*02_A70G





Sequence Count by IGHJ6 allele usage

