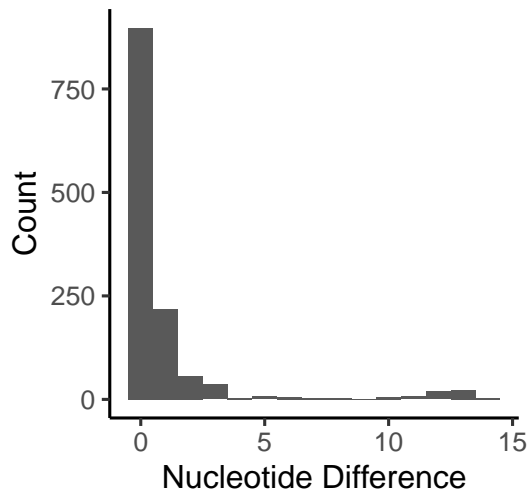


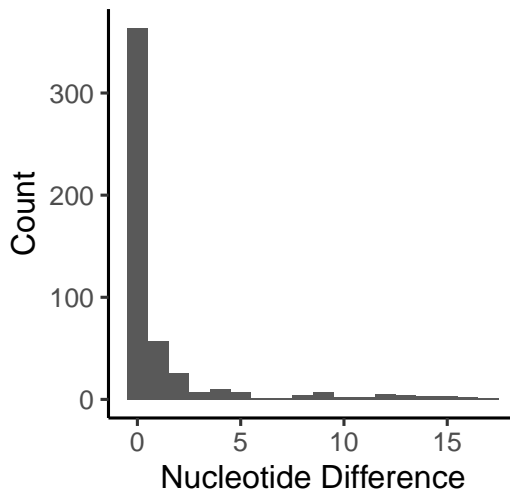
IGHV1-2*02

1298 sequences assigned
898 (69.2%) exact matches, in which:
857 unique CDR3
7 unique J



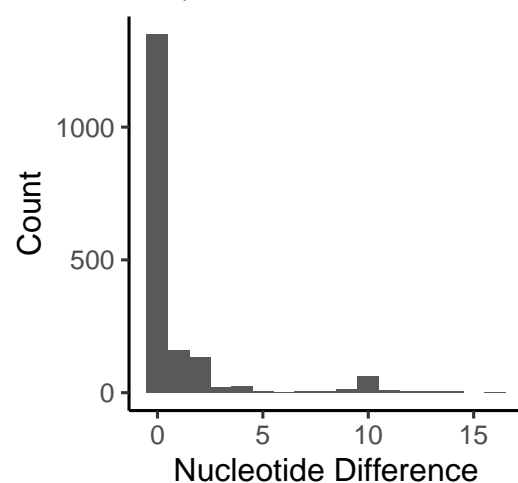
IGHV1-3*04

506 sequences assigned
364 (71.9%) exact matches, in which:
351 unique CDR3
7 unique J



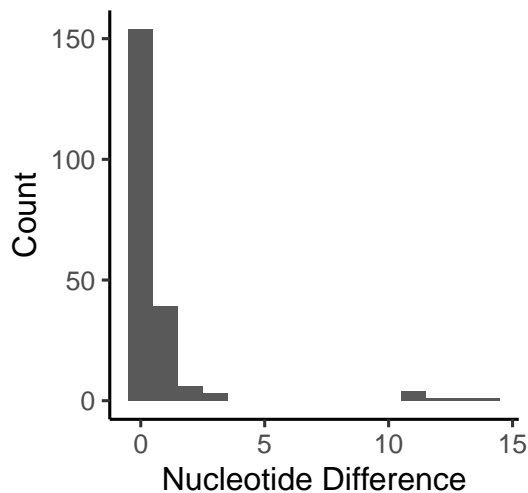
IGHV1-18*01

1801 sequences assigned
1349 (74.9%) exact matches, in which:
1277 unique CDR3
7 unique J



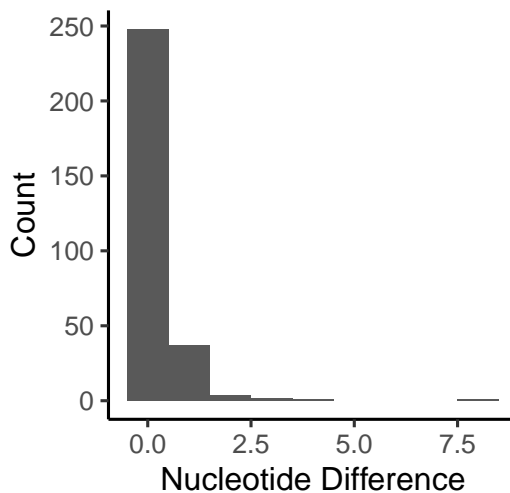
IGHV1-2*04

209 sequences assigned
154 (73.7%) exact matches, in which:
135 unique CDR3
6 unique J



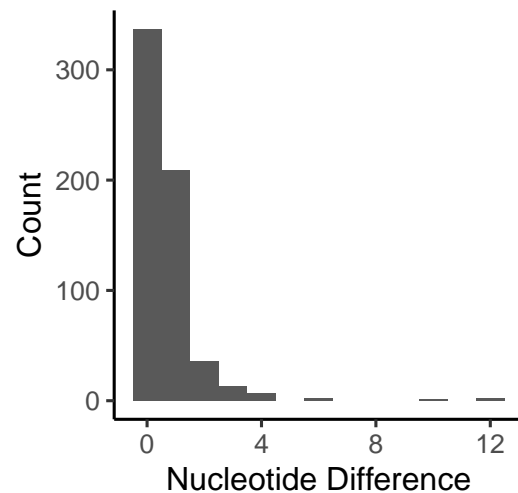
IGHV1-8*01

293 sequences assigned
248 (84.6%) exact matches, in which:
240 unique CDR3
7 unique J



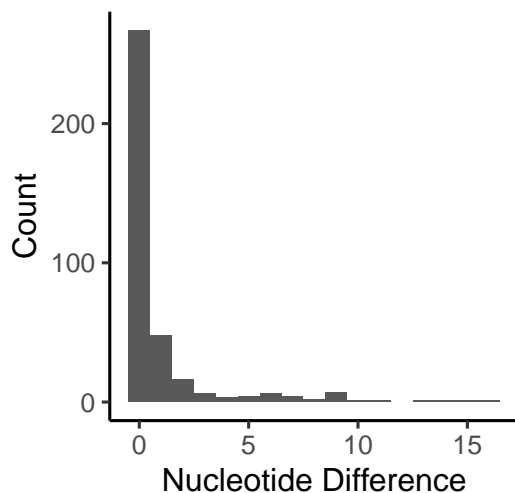
IGHV1-24*01

613 sequences assigned
337 (55%) exact matches, in which:
314 unique CDR3
7 unique J



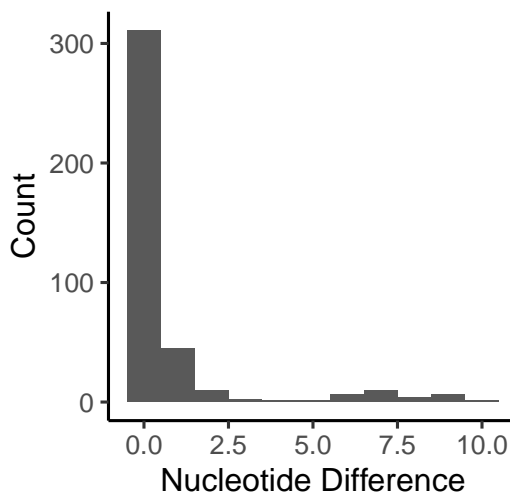
IGHV1-3*01

369 sequences assigned
267 (72.4%) exact matches, in which:
256 unique CDR3
7 unique J



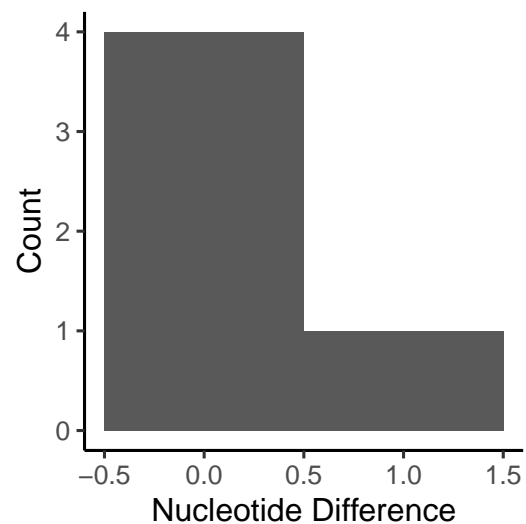
IGHV1-8*02

397 sequences assigned
311 (78.3%) exact matches, in which:
300 unique CDR3
7 unique J



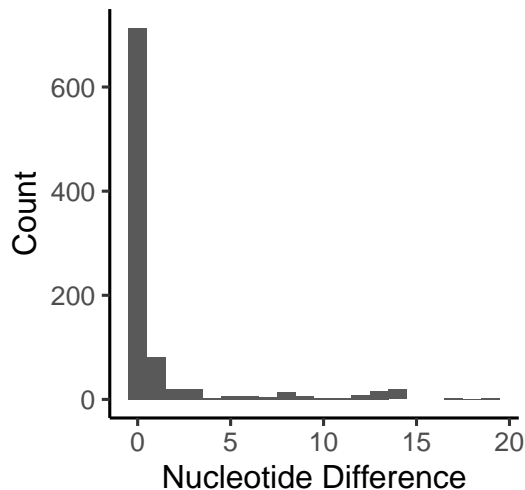
IGHV1-45*02

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



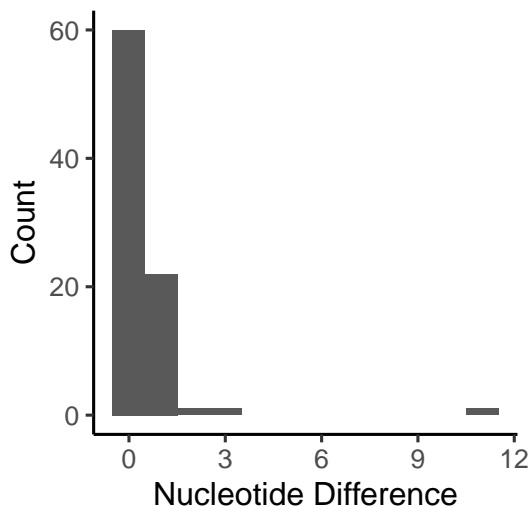
IGHV1–46*01

934 sequences assigned
714 (76.4%) exact matches, in which:
680 unique CDR3
7 unique J



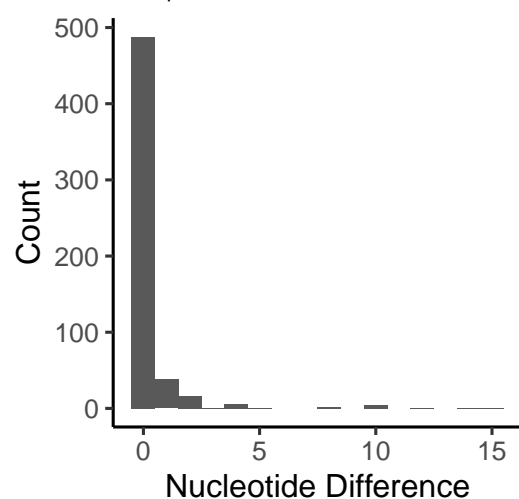
IGHV1–69–2*01_C201T

86 sequences assigned
60 (69.8%) exact matches, in which:
58 unique CDR3
7 unique J



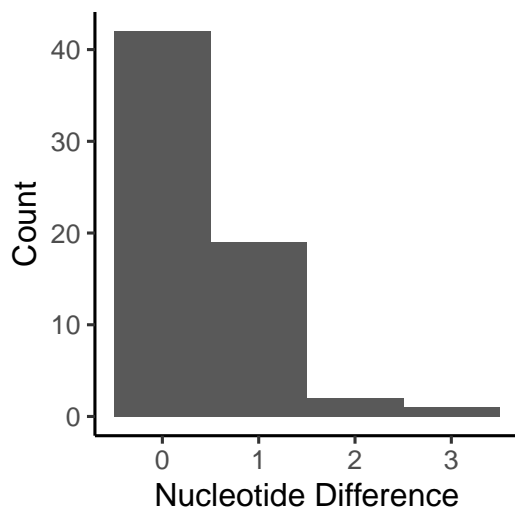
IGHV1–69*15

559 sequences assigned
488 (87.3%) exact matches, in which:
483 unique CDR3
7 unique J



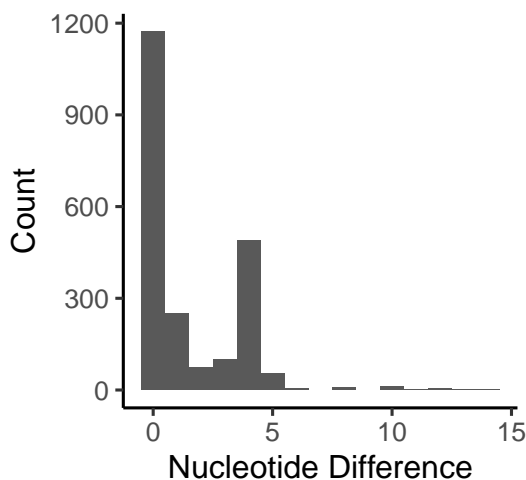
IGHV1–58*02

64 sequences assigned
42 (65.6%) exact matches, in which:
36 unique CDR3
6 unique J



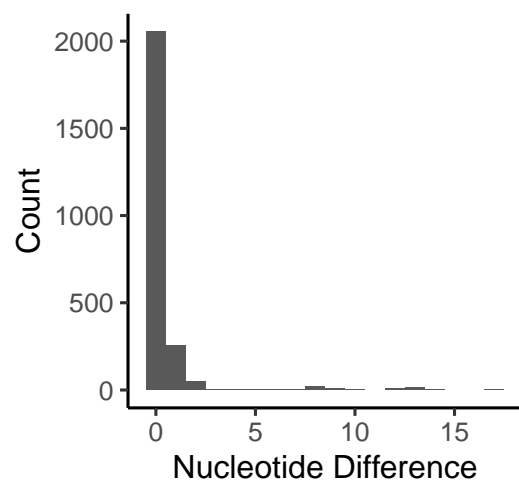
IGHV1–69*11

2177 sequences assigned
1172 (53.8%) exact matches, in which:
1102 unique CDR3
7 unique J



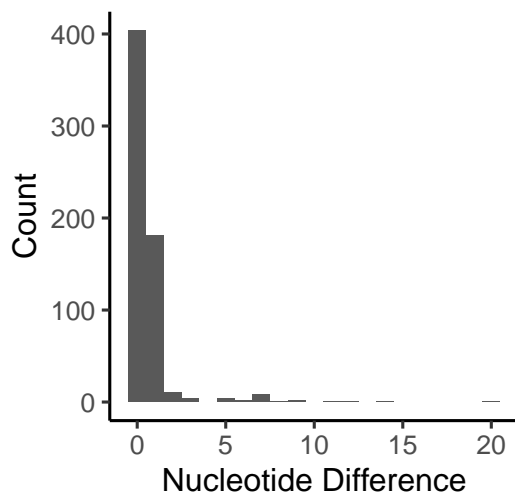
IGHV1–69*18

2432 sequences assigned
2054 (84.5%) exact matches, in which:
1941 unique CDR3
7 unique J



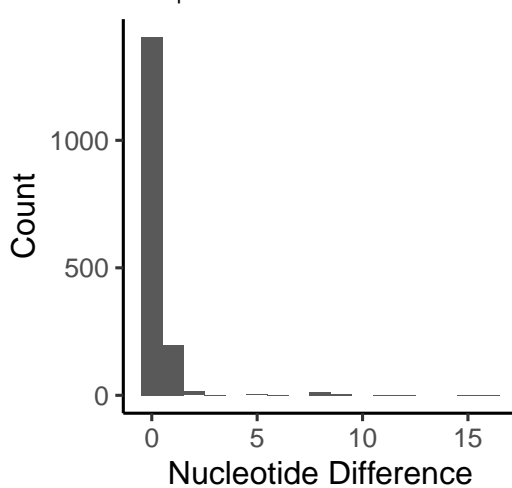
IGHV1–69–2*01

620 sequences assigned
404 (65.2%) exact matches, in which:
389 unique CDR3
7 unique J



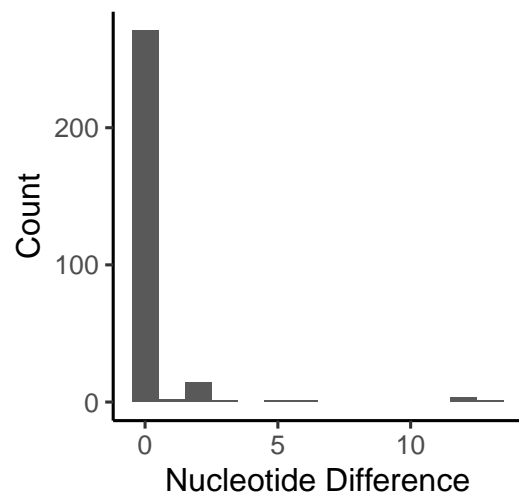
IGHV1–69*12

1648 sequences assigned
1405 (85.3%) exact matches, in which:
1328 unique CDR3
7 unique J



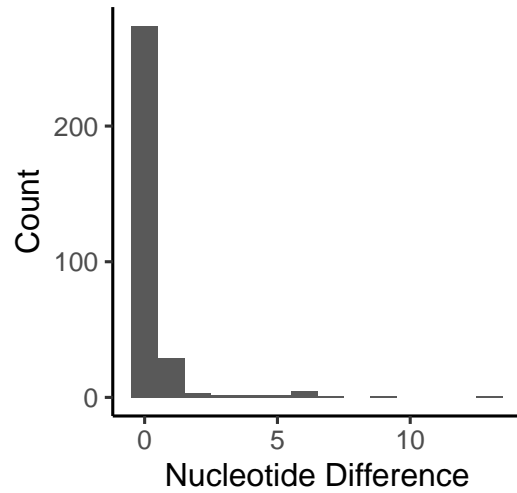
IGHV1–69D*01

294 sequences assigned
271 (92.2%) exact matches, in which:
271 unique CDR3
7 unique J



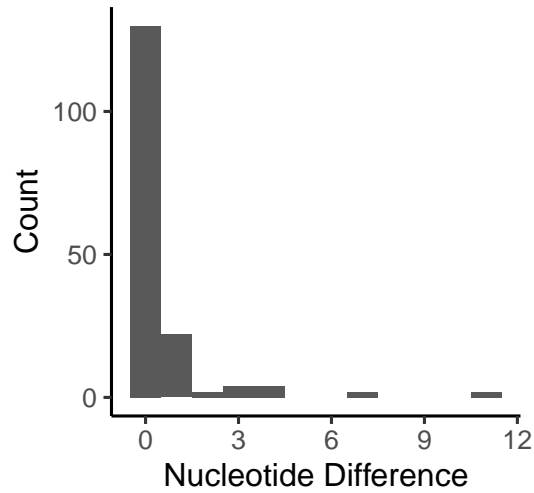
IGHV2-5*01

324 sequences assigned
274 (84.6%) exact matches, in which:
265 unique CDR3
7 unique J



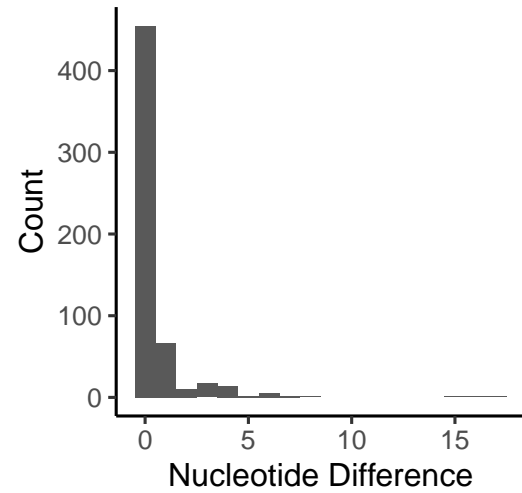
IGHV2-70*15

167 sequences assigned
130 (77.8%) exact matches, in which:
121 unique CDR3
5 unique J



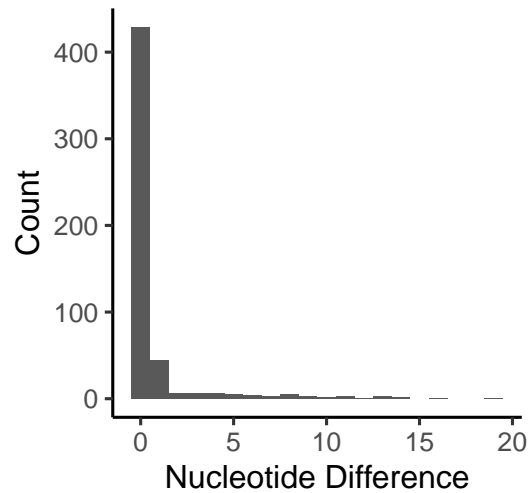
IGHV3-9*01

576 sequences assigned
455 (79%) exact matches, in which:
406 unique CDR3
7 unique J



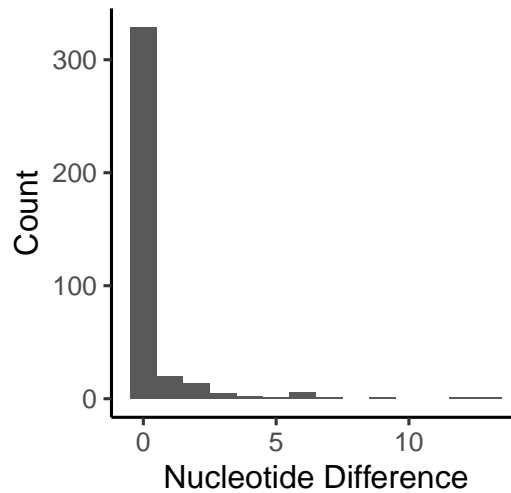
IGHV2-5*02

525 sequences assigned
429 (81.7%) exact matches, in which:
418 unique CDR3
7 unique J



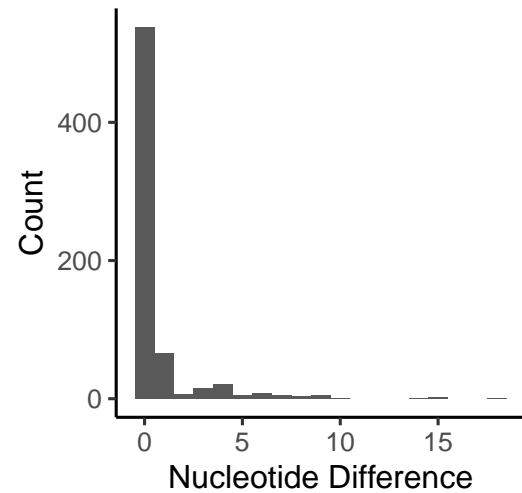
IGHV3-7*01

381 sequences assigned
329 (86.4%) exact matches, in which:
314 unique CDR3
7 unique J



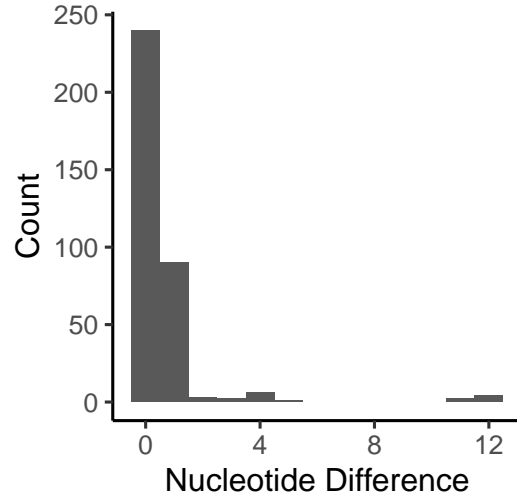
IGHV3-9*01_T194C_C19

679 sequences assigned
538 (79.2%) exact matches, in which:
496 unique CDR3
7 unique J



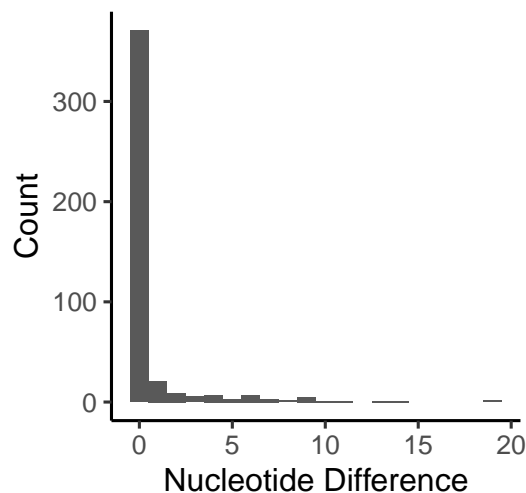
IGHV2-26*01

349 sequences assigned
240 (68.8%) exact matches, in which:
225 unique CDR3
7 unique J



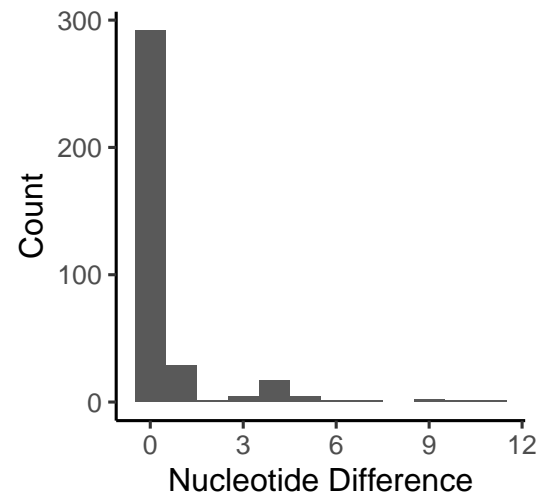
IGHV3-7*03

440 sequences assigned
371 (84.3%) exact matches, in which:
355 unique CDR3
6 unique J



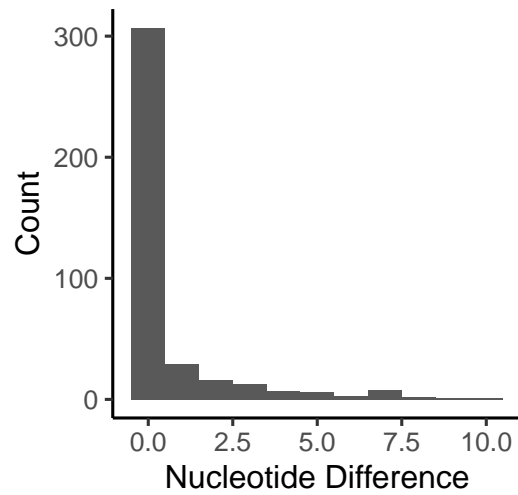
IGHV3-11*01

353 sequences assigned
292 (82.7%) exact matches, in which:
274 unique CDR3
7 unique J



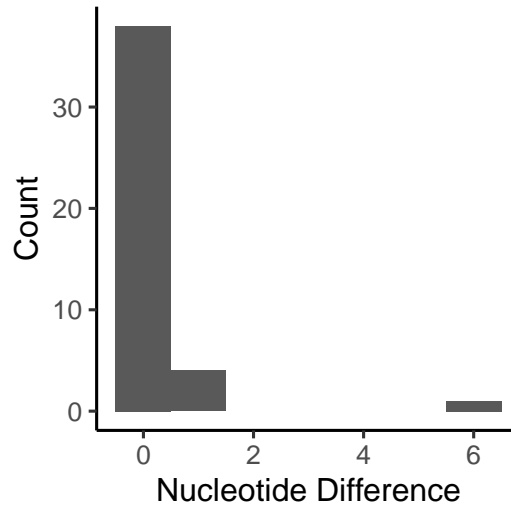
IGHV3-11*04

393 sequences assigned
307 (78.1%) exact matches, in which:
284 unique CDR3
7 unique J



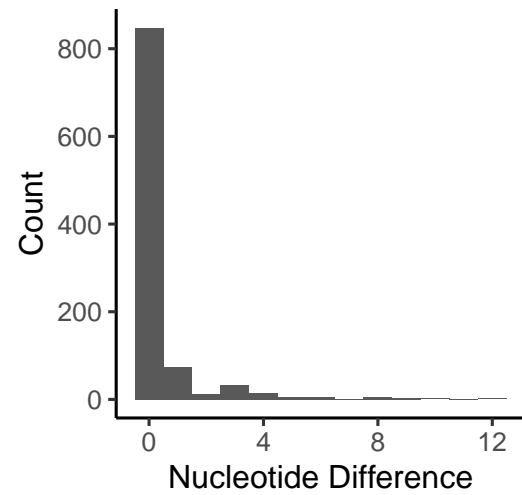
IGHV3-20*01

43 sequences assigned
38 (88.4%) exact matches, in which:
37 unique CDR3
5 unique J



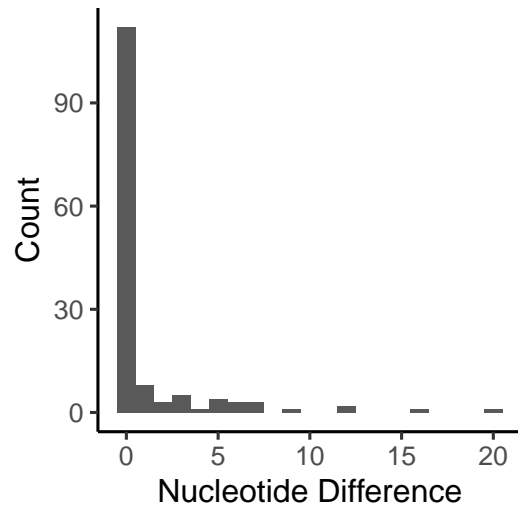
IGHV3-30-3*01

1007 sequences assigned
848 (84.2%) exact matches, in which:
791 unique CDR3
7 unique J



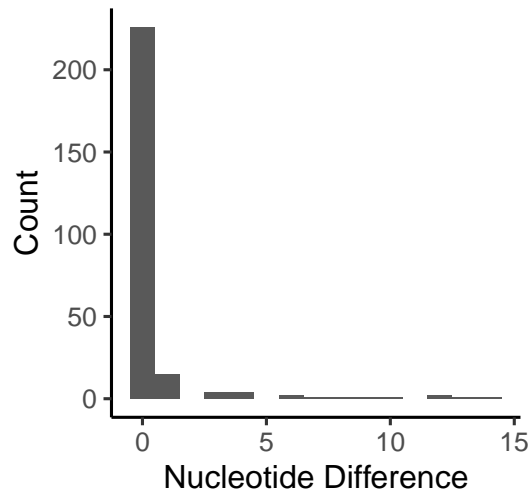
IGHV3-13*01

144 sequences assigned
112 (77.8%) exact matches, in which:
105 unique CDR3
6 unique J



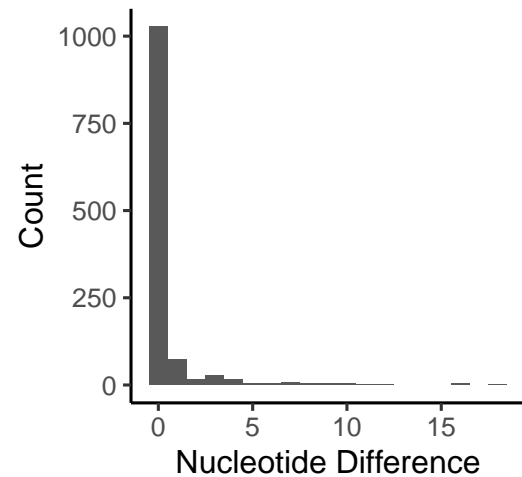
IGHV3-20*04

259 sequences assigned
226 (87.3%) exact matches, in which:
213 unique CDR3
7 unique J



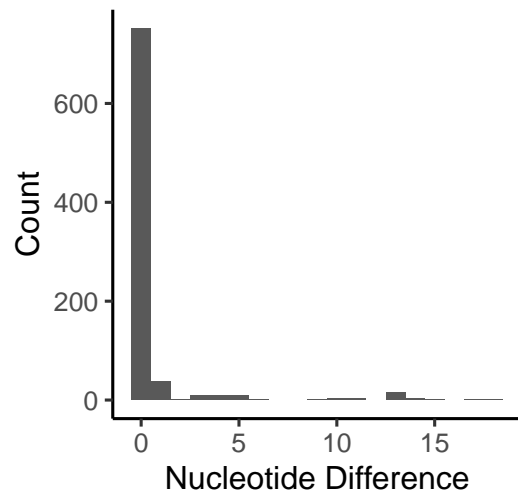
IGHV3-30*01

1196 sequences assigned
1027 (85.9%) exact matches, in which:
983 unique CDR3
7 unique J



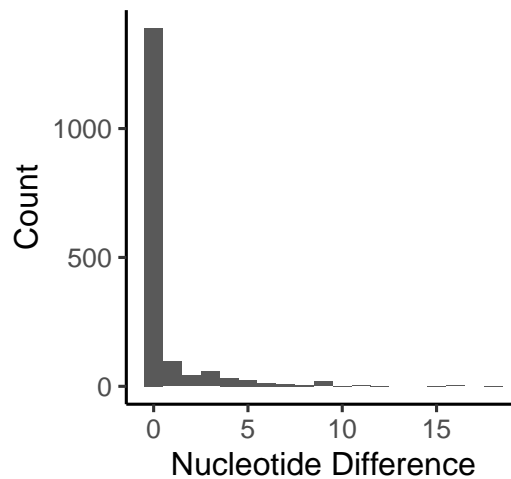
IGHV3-15*01

850 sequences assigned
752 (88.5%) exact matches, in which:
723 unique CDR3
7 unique J



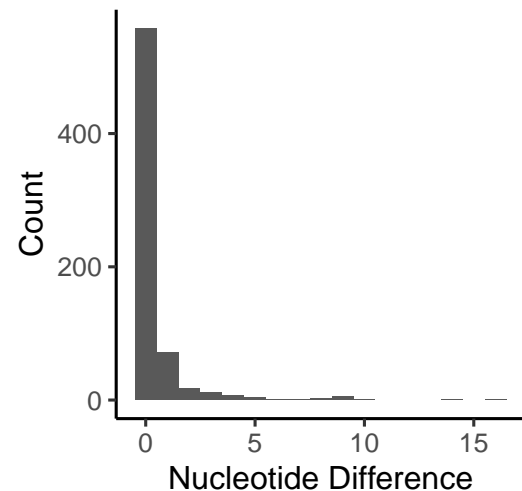
IGHV3-21*01

1700 sequences assigned
1390 (81.8%) exact matches, in which:
1306 unique CDR3
7 unique J



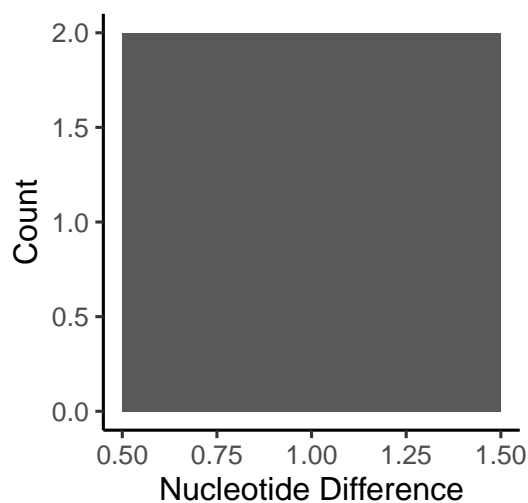
IGHV3-33*06

682 sequences assigned
558 (81.8%) exact matches, in which:
531 unique CDR3
7 unique J



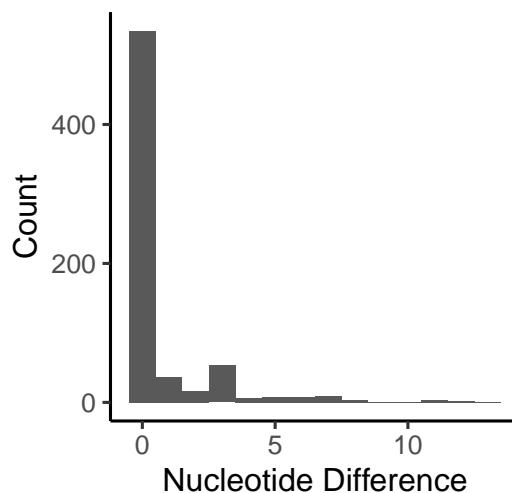
IGHV3-35*01

2 sequences assigned
No exact matches.



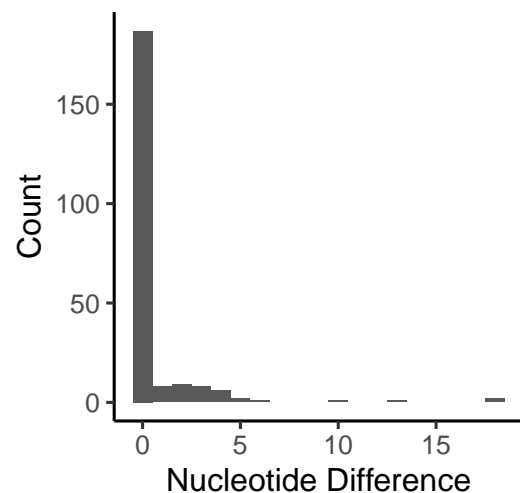
IGHV3-48*04

685 sequences assigned
535 (78.1%) exact matches, in which:
518 unique CDR3
7 unique J



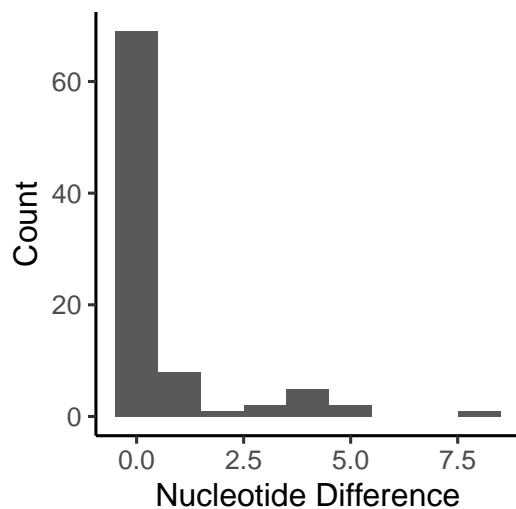
IGHV3-53*01

225 sequences assigned
187 (83.1%) exact matches, in which:
173 unique CDR3
7 unique J



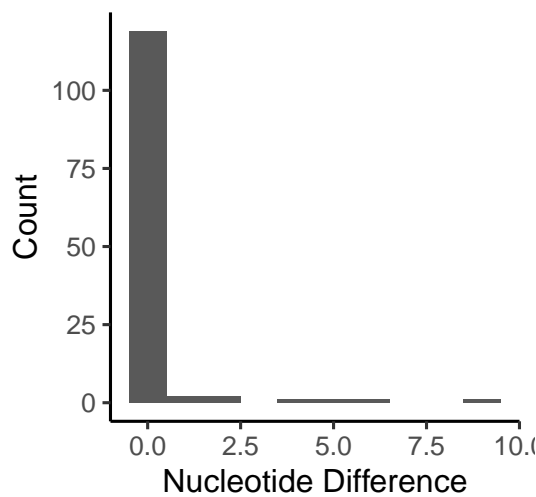
IGHV3-43*01

88 sequences assigned
69 (78.4%) exact matches, in which:
68 unique CDR3
4 unique J



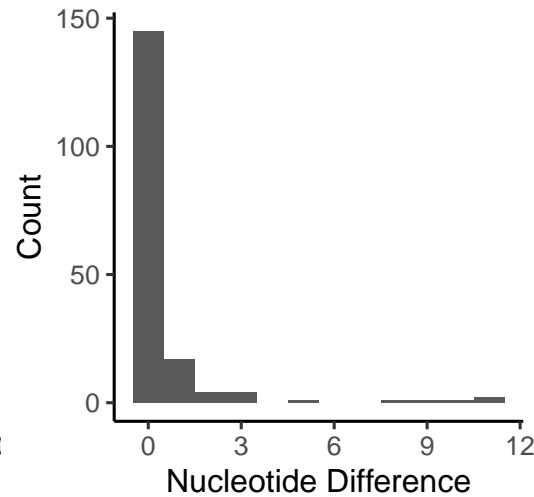
IGHV3-49*03

127 sequences assigned
119 (93.7%) exact matches, in which:
112 unique CDR3
6 unique J



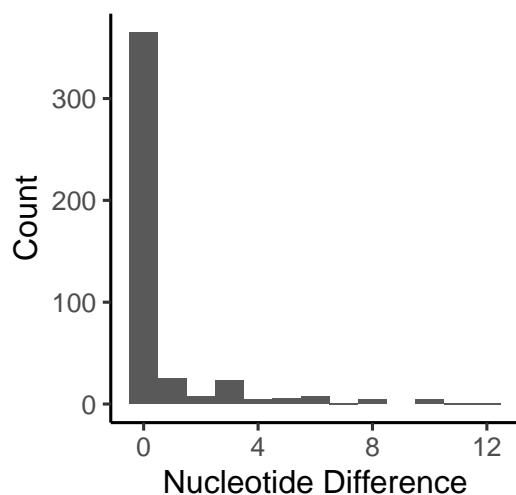
IGHV3-53*04

177 sequences assigned
145 (81.9%) exact matches, in which:
129 unique CDR3
5 unique J



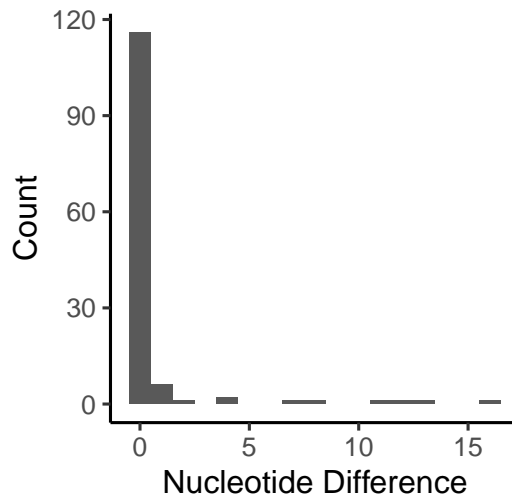
IGHV3-48*01

447 sequences assigned
365 (81.7%) exact matches, in which:
346 unique CDR3
7 unique J



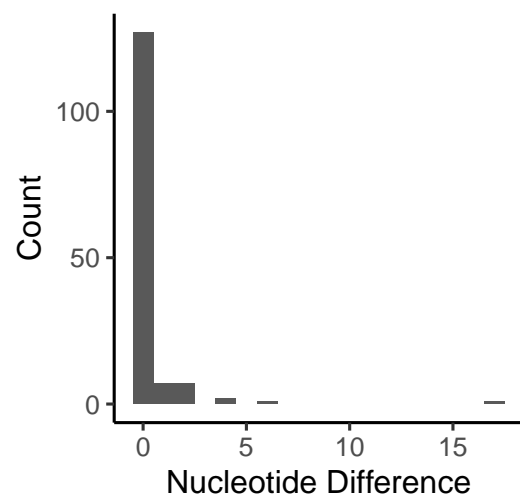
IGHV3-49*04

131 sequences assigned
116 (88.5%) exact matches, in which:
114 unique CDR3
5 unique J



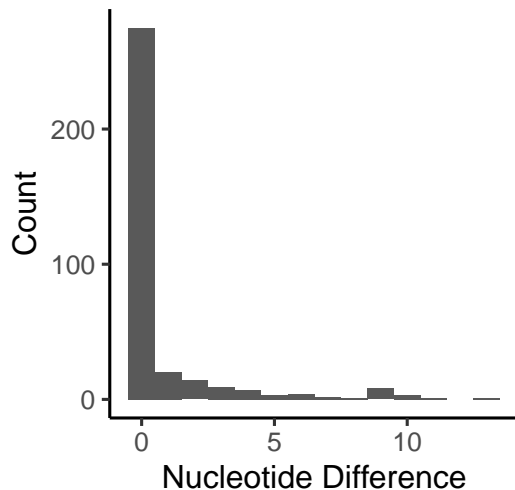
IGHV3-64*01

145 sequences assigned
127 (87.6%) exact matches, in which:
123 unique CDR3
7 unique J



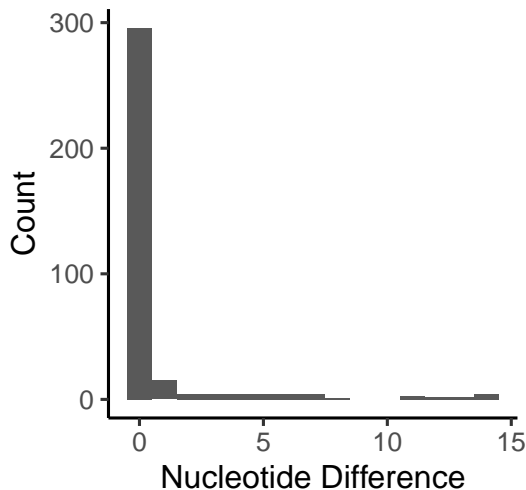
IGHV3-66*02

349 sequences assigned
275 (78.8%) exact matches, in which:
254 unique CDR3
6 unique J



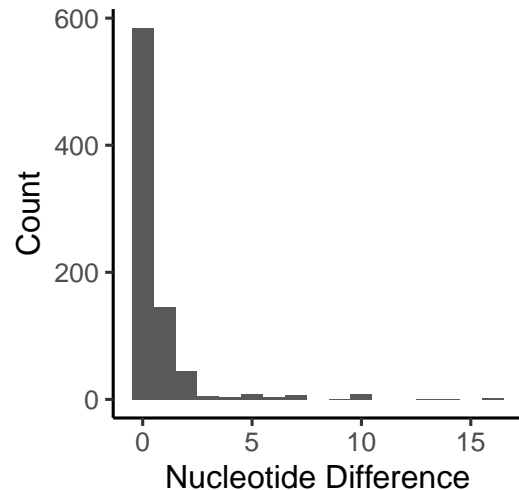
IGHV3-74*01

347 sequences assigned
296 (85.3%) exact matches, in which:
285 unique CDR3
7 unique J



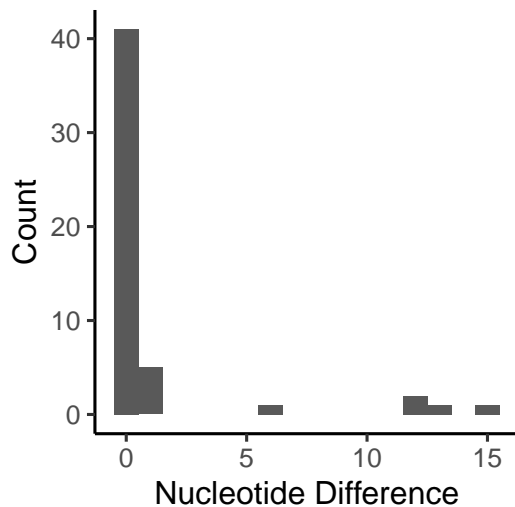
IGHV4-4*09

817 sequences assigned
585 (71.6%) exact matches, in which:
537 unique CDR3
7 unique J



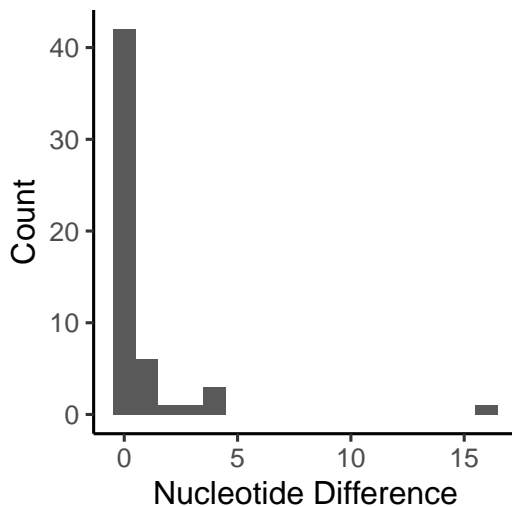
IGHV3-72*01

51 sequences assigned
41 (80.4%) exact matches, in which:
39 unique CDR3
5 unique J



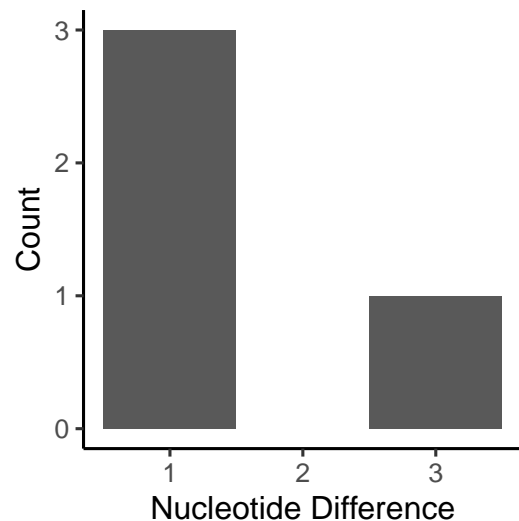
IGHV3-43D*04

54 sequences assigned
42 (77.8%) exact matches, in which:
38 unique CDR3
4 unique J



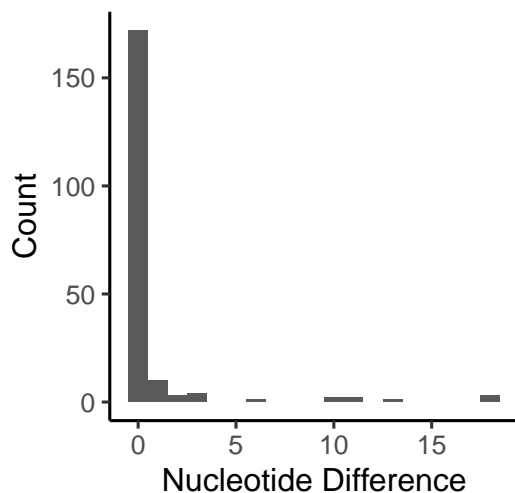
IGHV4-28*01

4 sequences assigned
No exact matches.



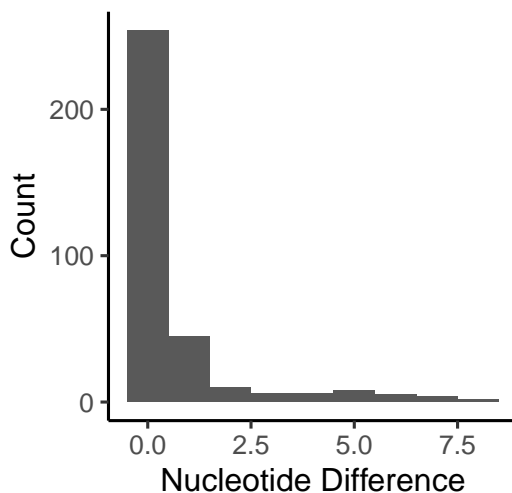
IGHV3-73*01

198 sequences assigned
172 (86.9%) exact matches, in which:
159 unique CDR3
6 unique J



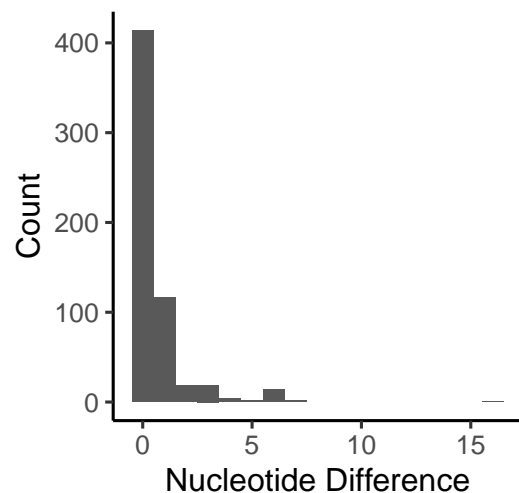
IGHV4-4*03

340 sequences assigned
254 (74.7%) exact matches, in which:
234 unique CDR3
6 unique J



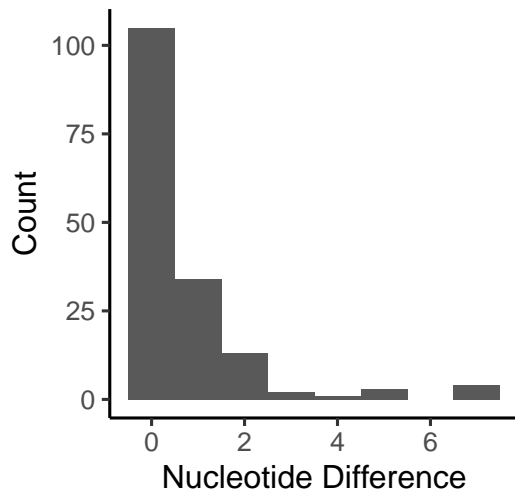
IGHV4-30-4*08

590 sequences assigned
414 (70.2%) exact matches, in which:
389 unique CDR3
7 unique J



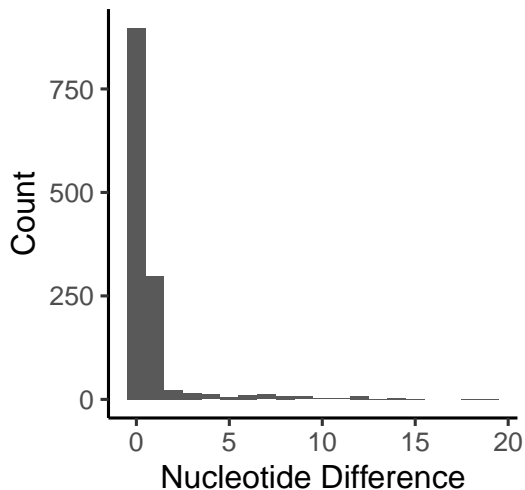
IGHV4-31*01

162 sequences assigned
105 (64.8%) exact matches, in which:
94 unique CDR3
6 unique J



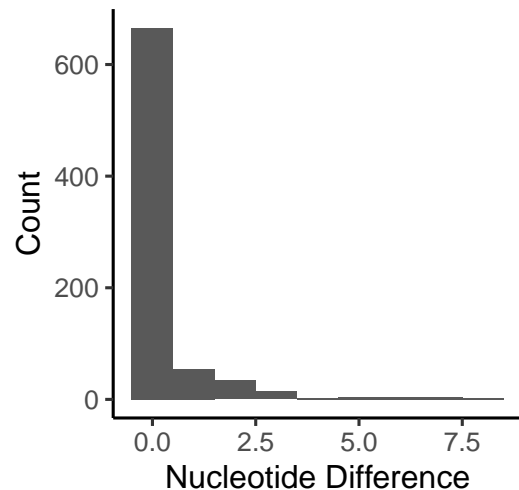
IGHV4-39*07

1310 sequences assigned
898 (68.5%) exact matches, in which:
859 unique CDR3
7 unique J



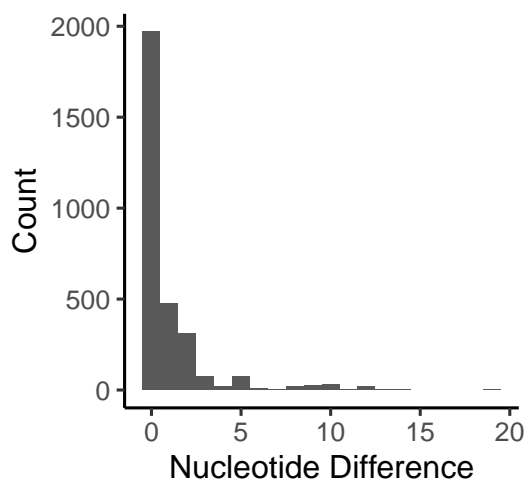
IGHV4-61*10

785 sequences assigned
666 (84.8%) exact matches, in which:
637 unique CDR3
7 unique J



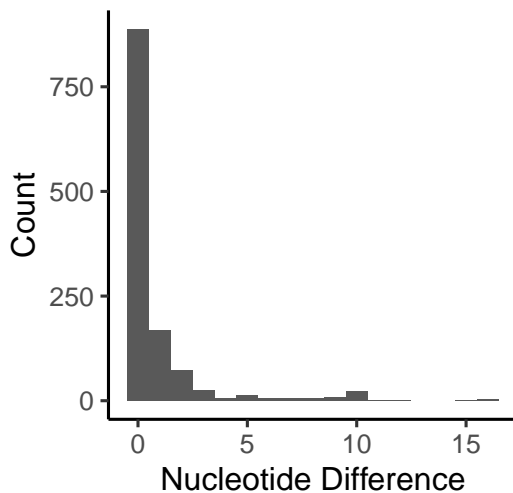
IGHV4-34*01

3043 sequences assigned
1970 (64.7%) exact matches, in which:
1867 unique CDR3
7 unique J



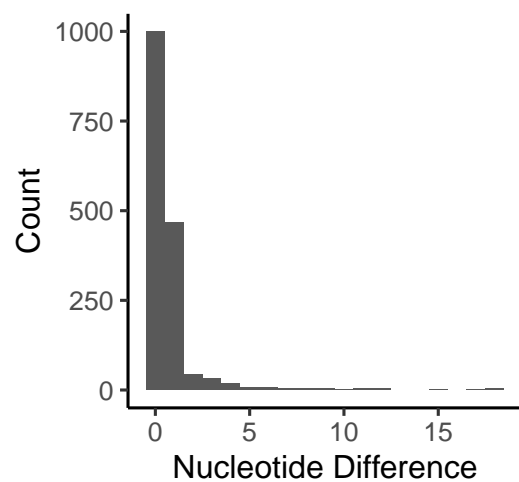
IGHV4-59*01

1230 sequences assigned
888 (72.2%) exact matches, in which:
841 unique CDR3
7 unique J



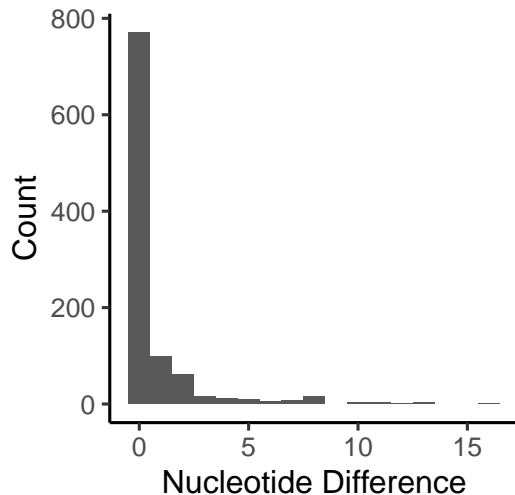
IGHV5-51*01

1595 sequences assigned
999 (62.6%) exact matches, in which:
863 unique CDR3
7 unique J



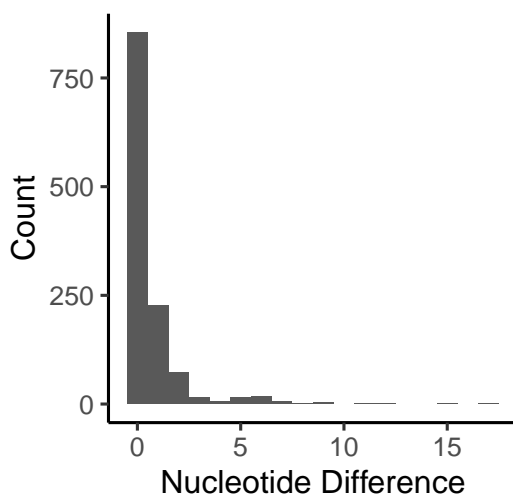
IGHV4-38-2*01

1008 sequences assigned
771 (76.5%) exact matches, in which:
735 unique CDR3
7 unique J



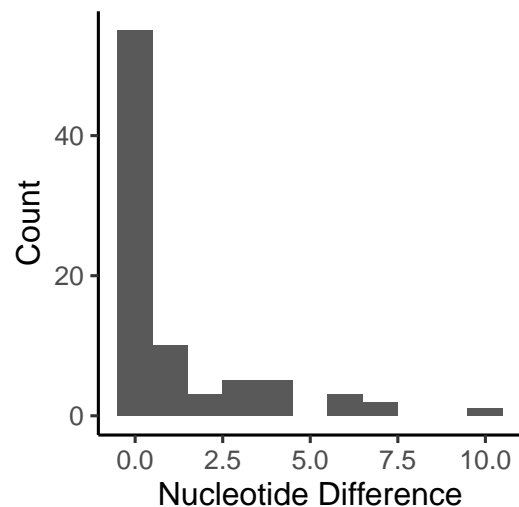
IGHV4-59*11

1219 sequences assigned
855 (70.1%) exact matches, in which:
800 unique CDR3
7 unique J



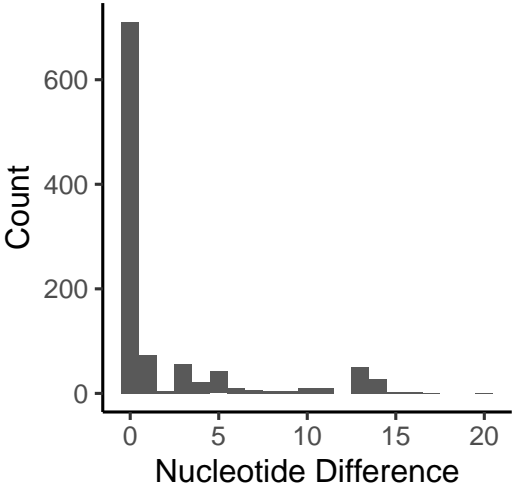
IGHV6-1*01

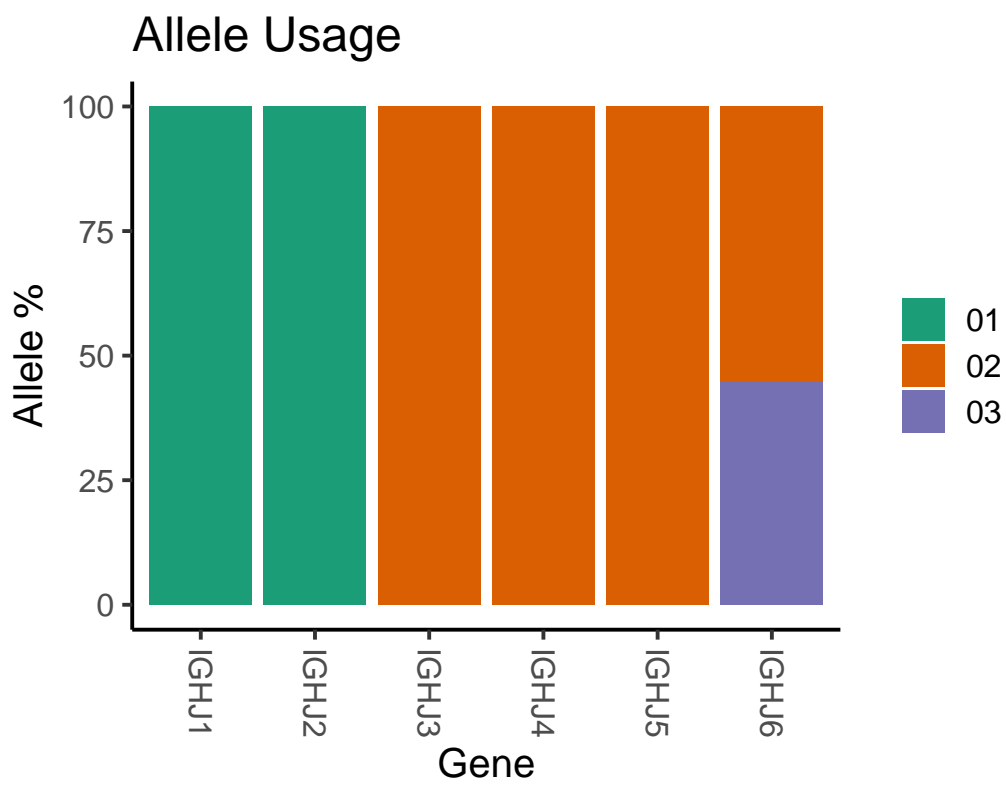
84 sequences assigned
55 (65.5%) exact matches, in which:
53 unique CDR3
5 unique J



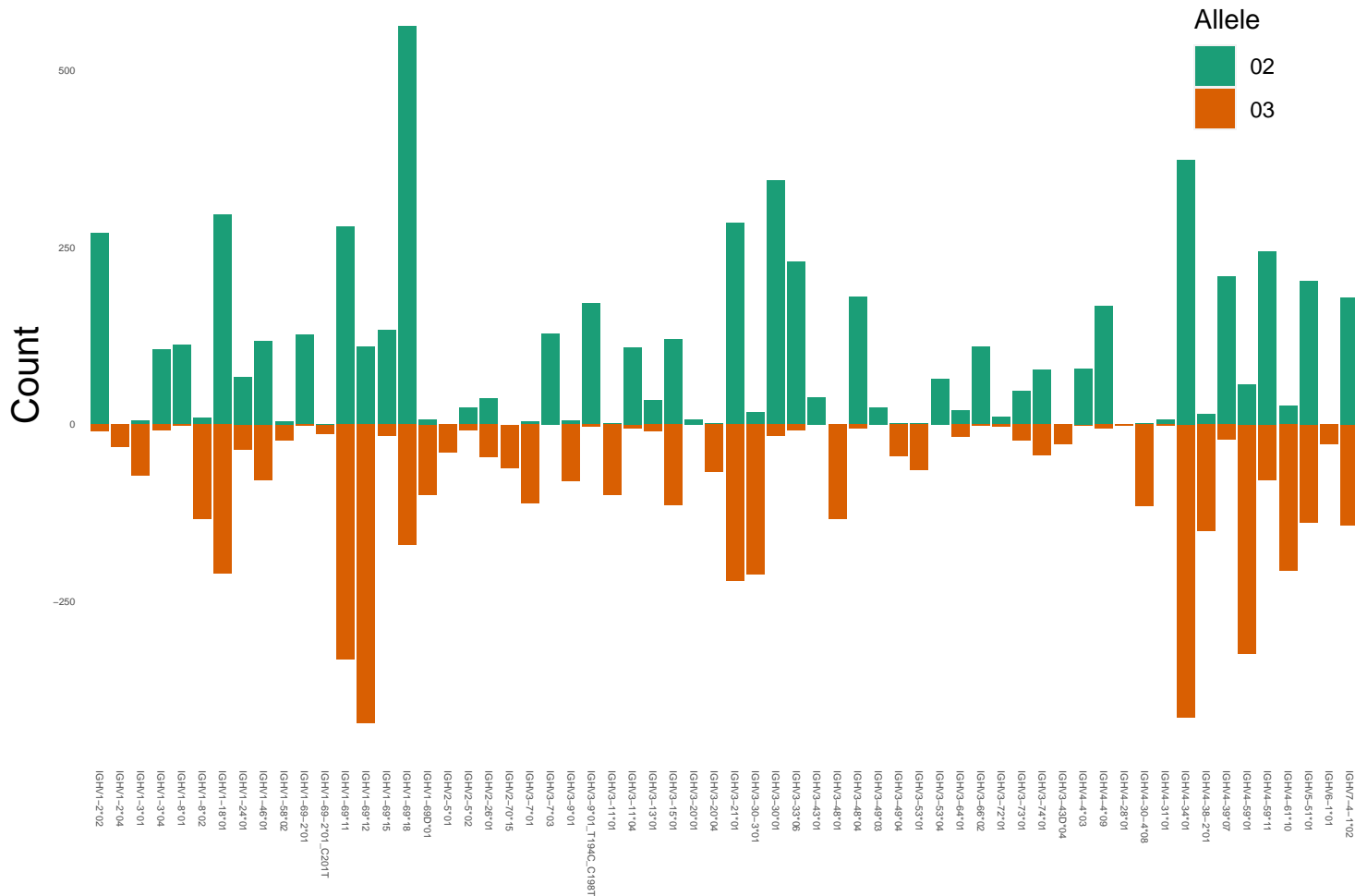
IGHV7-4-1*02

1041 sequences assigned
711 (68.3%) exact matches, in which:
668 unique CDR3
7 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.