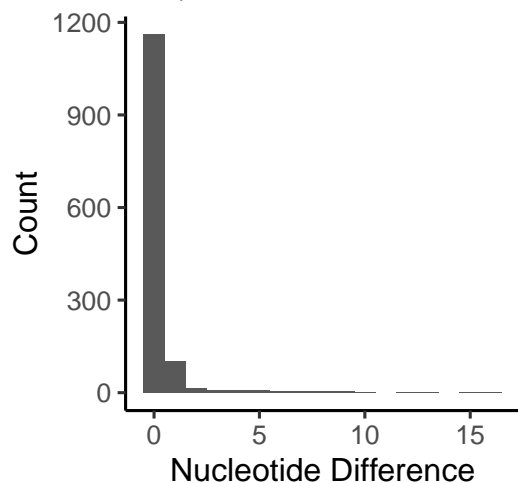


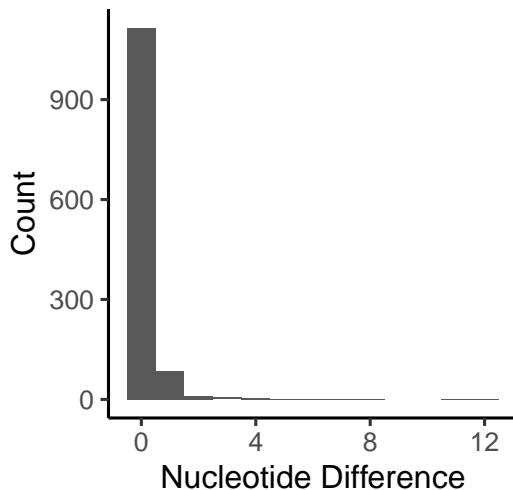
IGHV1-2*02

1328 sequences assigned
1161 (87.4%) exact matches, in which:
1111 unique CDR3
7 unique J



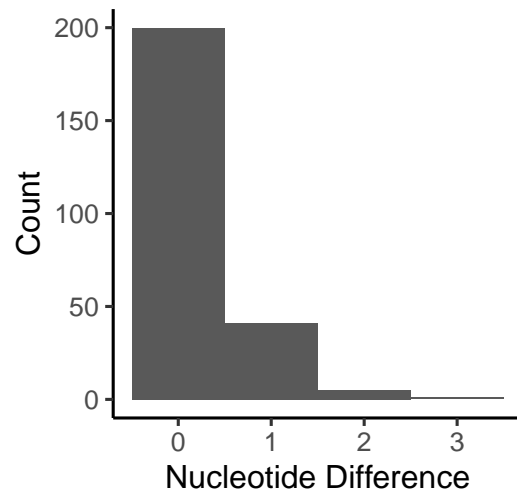
IGHV1-8*01

1231 sequences assigned
1116 (90.7%) exact matches, in which:
1065 unique CDR3
7 unique J



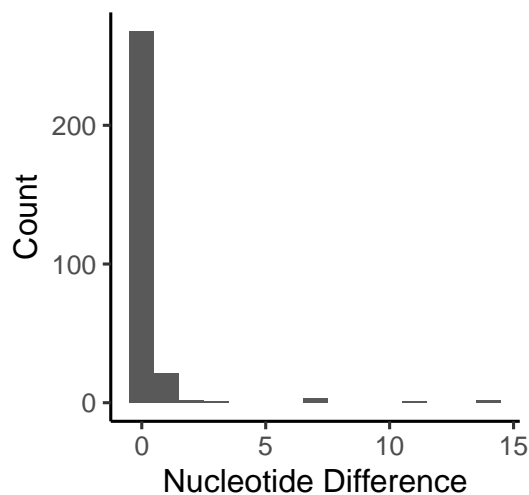
IGHV1-24*01

247 sequences assigned
200 (81%) exact matches, in which:
191 unique CDR3
6 unique J



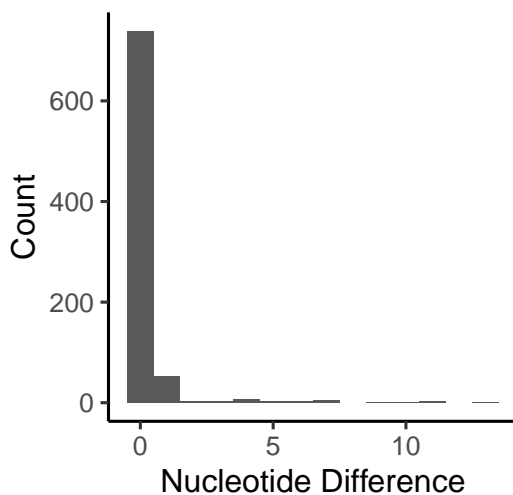
IGHV1-2*04

298 sequences assigned
268 (89.9%) exact matches, in which:
260 unique CDR3
7 unique J



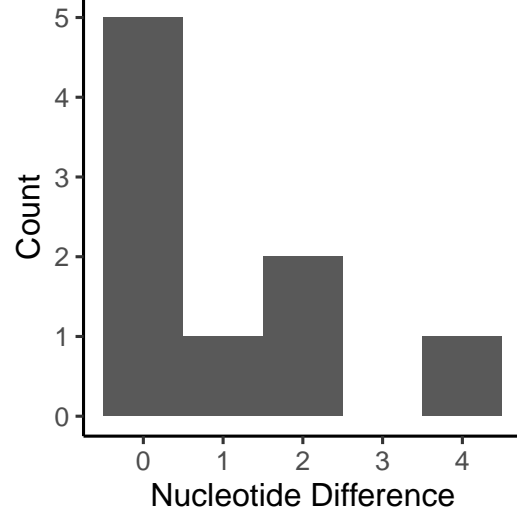
IGHV1-18*01

824 sequences assigned
739 (89.7%) exact matches, in which:
713 unique CDR3
6 unique J



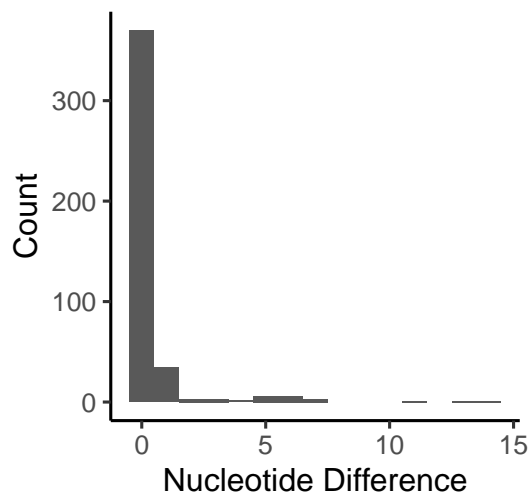
IGHV1-45*02

9 sequences assigned
5 (55.6%) exact matches, in which:
4 unique CDR3
2 unique J



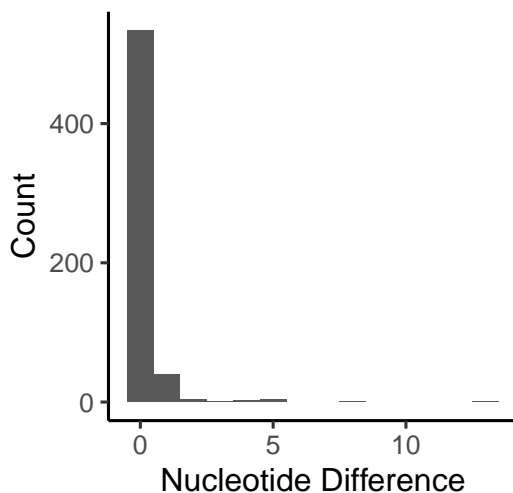
IGHV1-3*01

430 sequences assigned
370 (86%) exact matches, in which:
357 unique CDR3
6 unique J



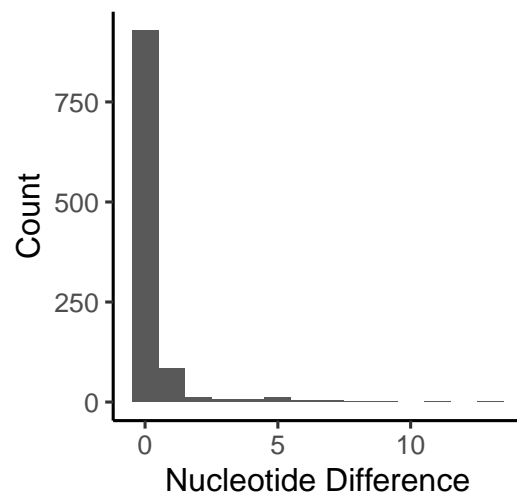
IGHV1-18*04

586 sequences assigned
534 (91.1%) exact matches, in which:
521 unique CDR3
6 unique J



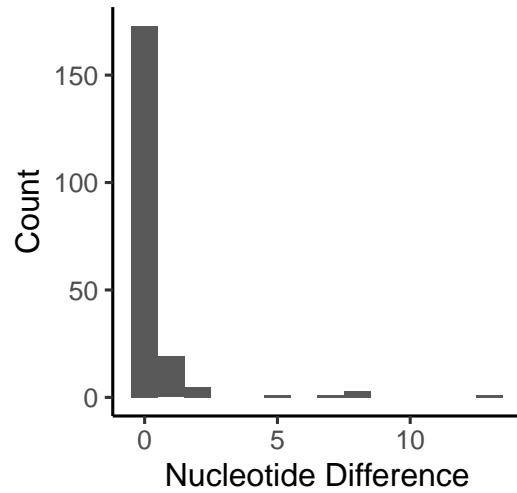
IGHV1-46*01

1061 sequences assigned
929 (87.6%) exact matches, in which:
886 unique CDR3
7 unique J



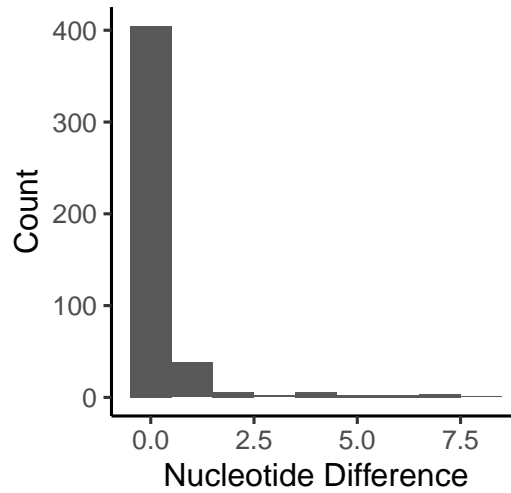
IGHV1–58*01

205 sequences assigned
173 (84.4%) exact matches, in which:
166 unique CDR3
7 unique J



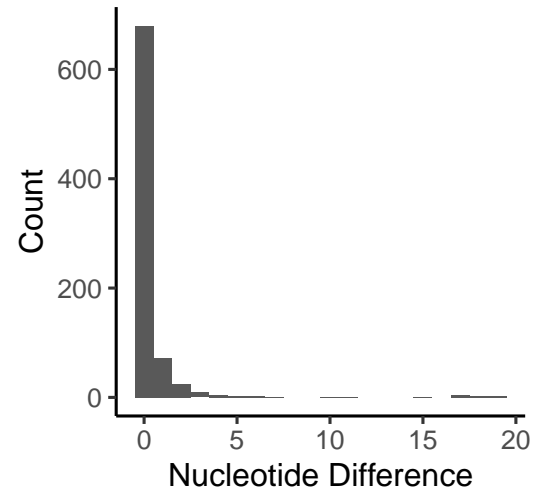
IGHV2–5*02

468 sequences assigned
405 (86.5%) exact matches, in which:
397 unique CDR3
6 unique J



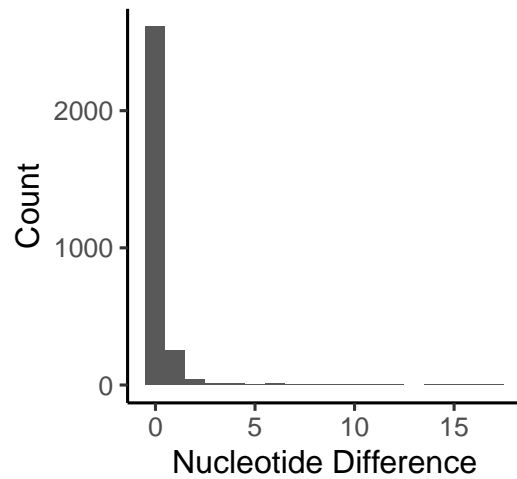
IGHV3–7*01

812 sequences assigned
680 (83.7%) exact matches, in which:
654 unique CDR3
7 unique J



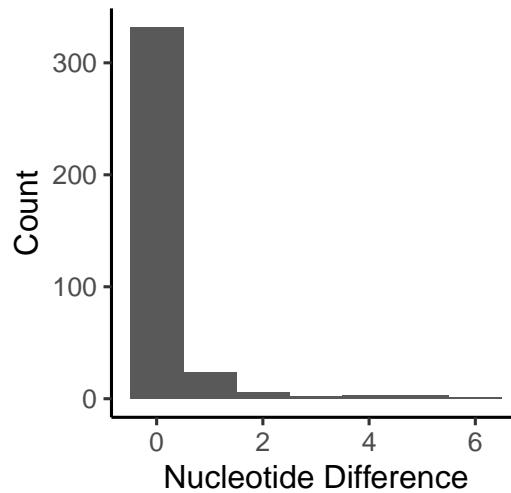
IGHV1–69*01

2970 sequences assigned
2612 (87.9%) exact matches, in which:
2494 unique CDR3
7 unique J



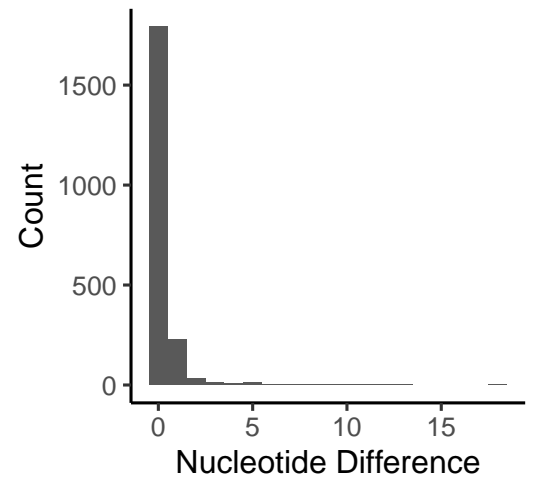
IGHV2–26*01

371 sequences assigned
332 (89.5%) exact matches, in which:
322 unique CDR3
7 unique J



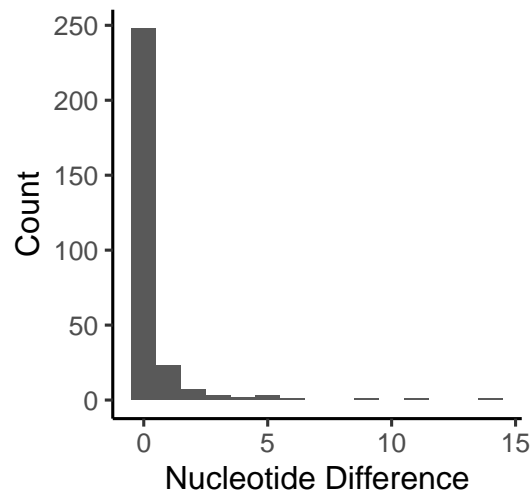
IGHV3–9*01

2111 sequences assigned
1792 (84.9%) exact matches, in which:
1690 unique CDR3
7 unique J



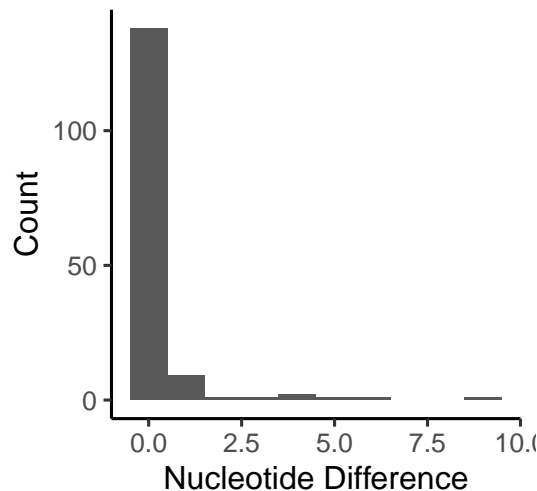
IGHV2–5*01

290 sequences assigned
248 (85.5%) exact matches, in which:
244 unique CDR3
6 unique J



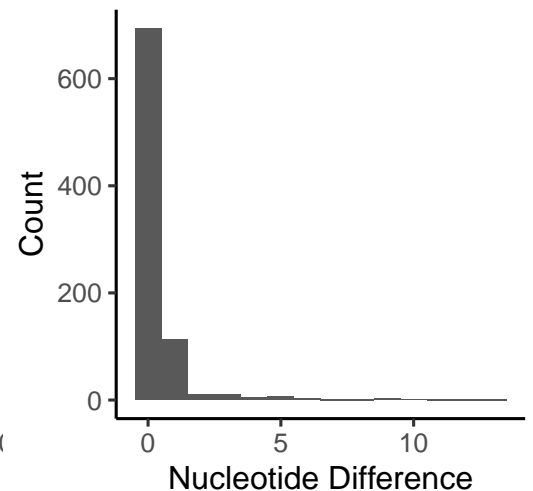
IGHV2–70*01

154 sequences assigned
138 (89.6%) exact matches, in which:
136 unique CDR3
7 unique J



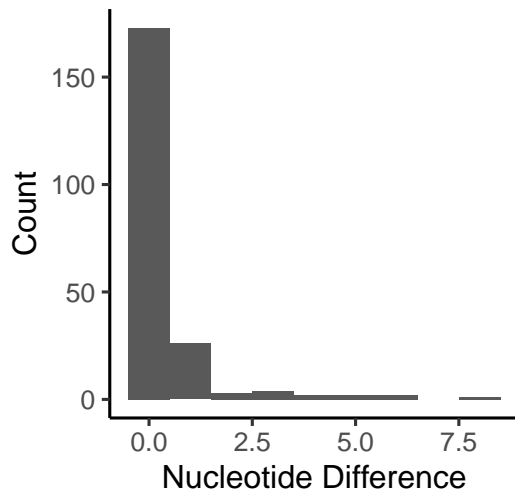
IGHV3–11*01

854 sequences assigned
694 (81.3%) exact matches, in which:
668 unique CDR3
7 unique J



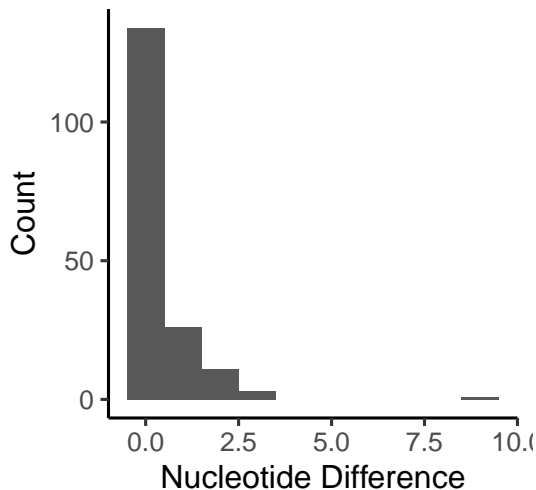
IGHV3-13*01

213 sequences assigned
173 (81.2%) exact matches, in which:
165 unique CDR3
6 unique J



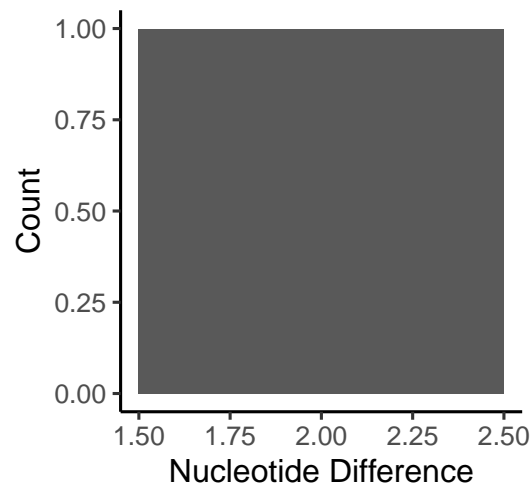
IGHV3-20*01

175 sequences assigned
134 (76.6%) exact matches, in which:
128 unique CDR3
6 unique J



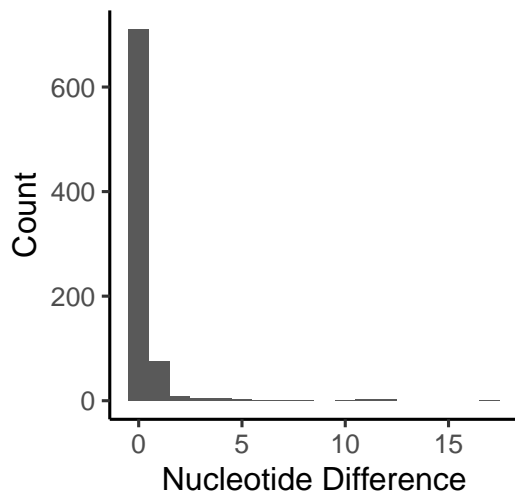
IGHV3-30-3*01

1 sequences assigned
No exact matches.



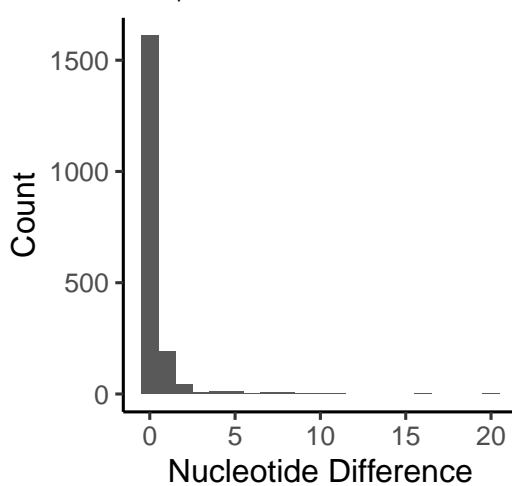
IGHV3-15*01

817 sequences assigned
711 (87%) exact matches, in which:
680 unique CDR3
7 unique J



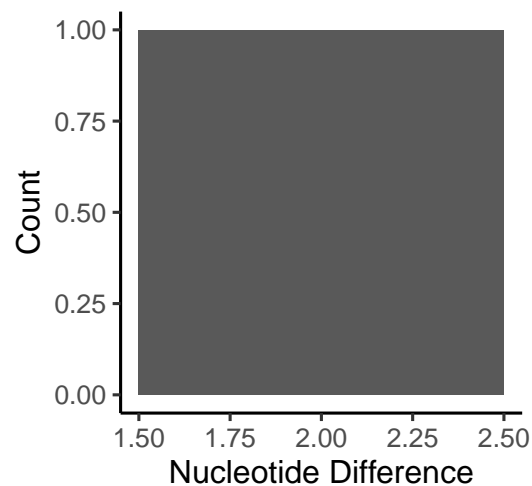
IGHV3-21*01

1896 sequences assigned
1610 (84.9%) exact matches, in which:
1530 unique CDR3
7 unique J



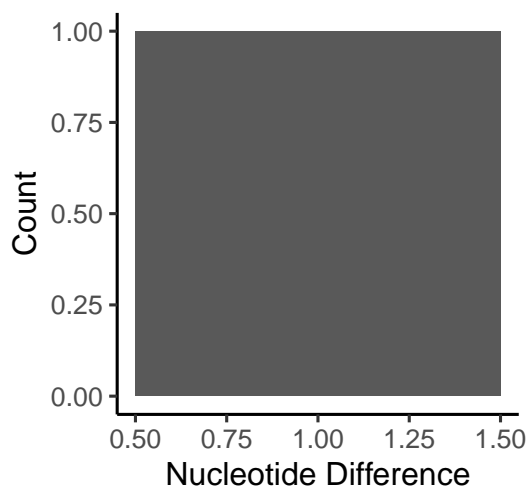
IGHV3-30-3*02

1 sequences assigned
No exact matches.



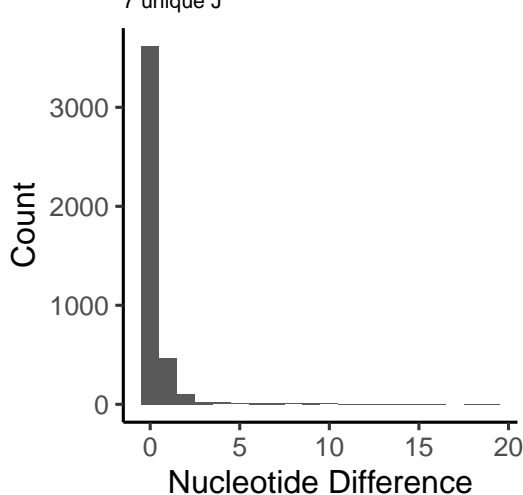
IGHV3-19*01

1 sequences assigned
No exact matches.



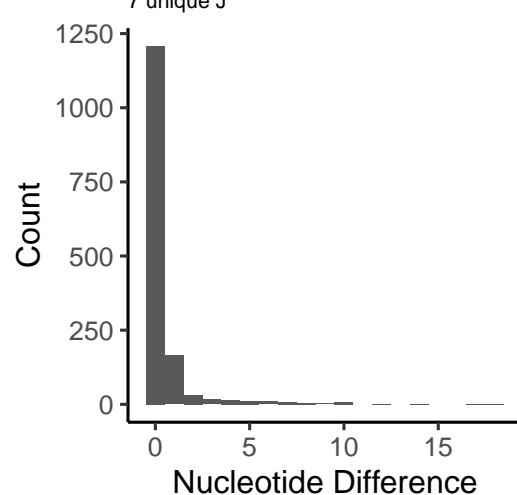
IGHV3-23*01

4337 sequences assigned
3619 (83.4%) exact matches, in which:
3414 unique CDR3
7 unique J



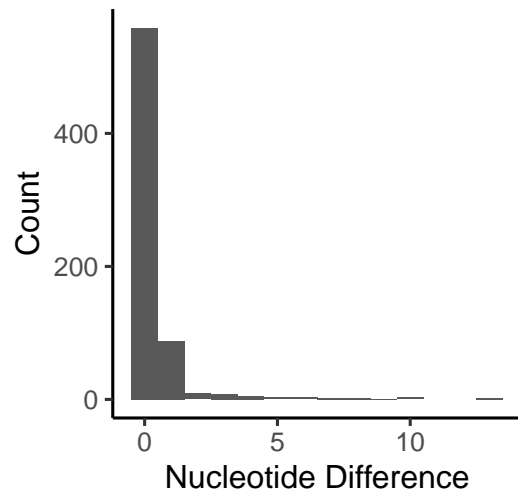
IGHV3-30*18

1484 sequences assigned
1208 (81.4%) exact matches, in which:
1152 unique CDR3
7 unique J



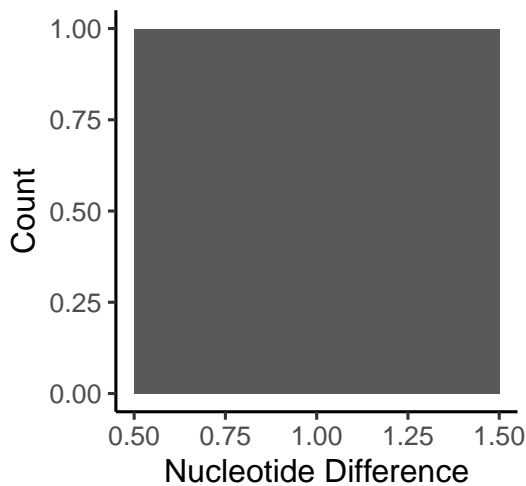
IGHV3–33*01

690 sequences assigned
559 (81%) exact matches, in which:
542 unique CDR3
6 unique J



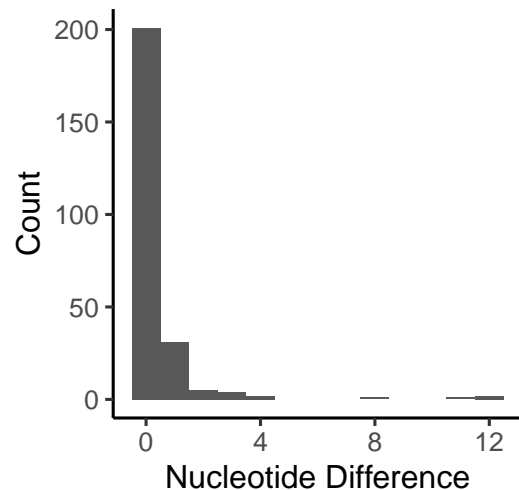
IGHV3–47*01

1 sequences assigned
No exact matches.



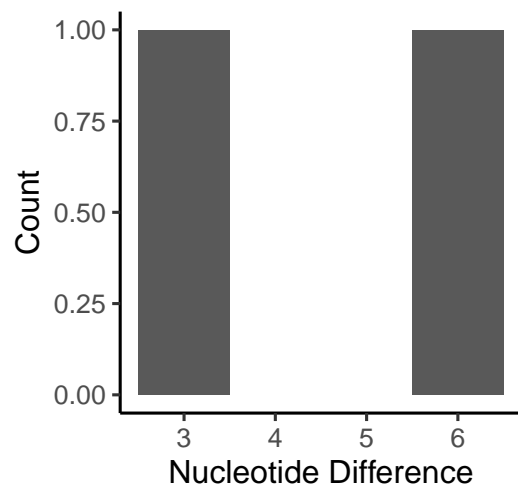
IGHV3–49*03

247 sequences assigned
201 (81.4%) exact matches, in which:
191 unique CDR3
6 unique J



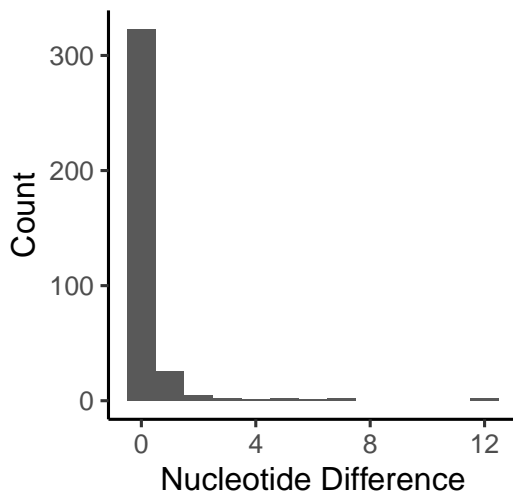
IGHV3–41*02

2 sequences assigned
No exact matches.



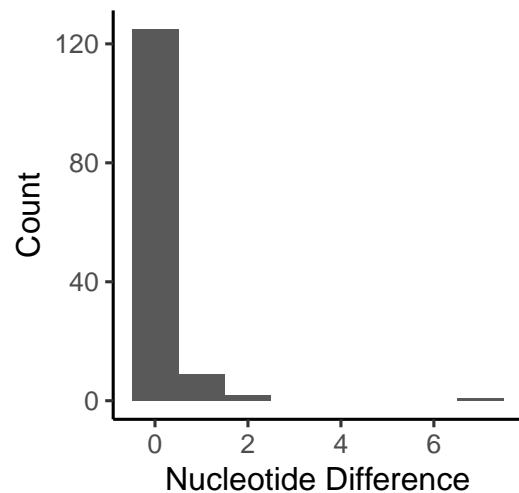
IGHV3–48*02

364 sequences assigned
323 (88.7%) exact matches, in which:
307 unique CDR3
6 unique J



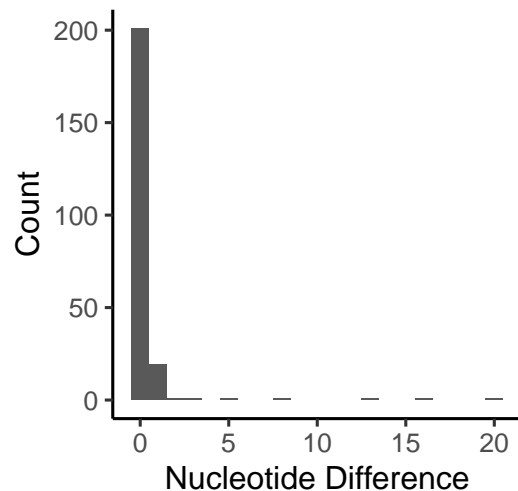
IGHV3–49*05

137 sequences assigned
125 (91.2%) exact matches, in which:
121 unique CDR3
6 unique J



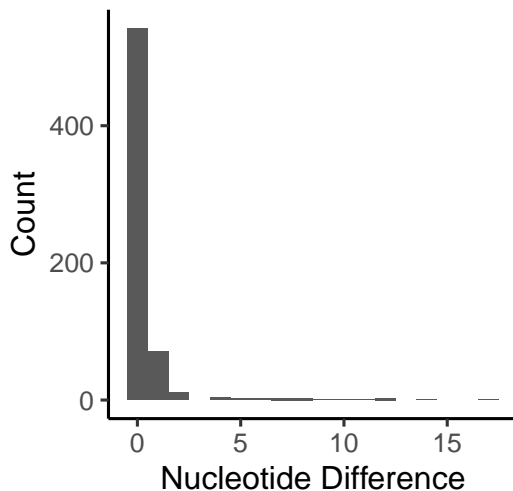
IGHV3–43*01

229 sequences assigned
201 (87.8%) exact matches, in which:
190 unique CDR3
7 unique J



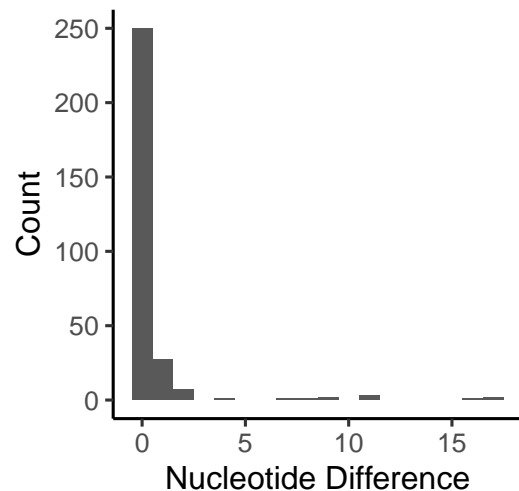
IGHV3–48*04

647 sequences assigned
542 (83.8%) exact matches, in which:
526 unique CDR3
7 unique J



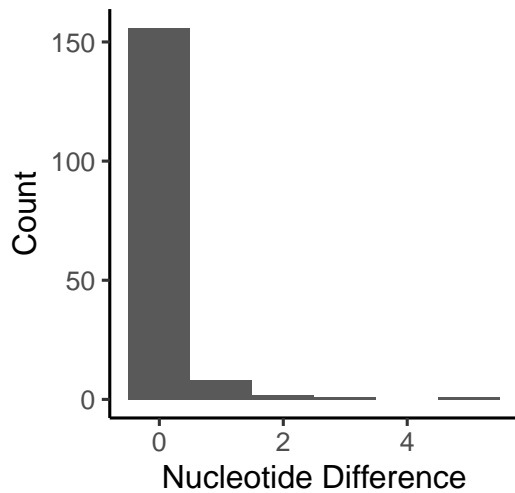
IGHV3–53*01

296 sequences assigned
250 (84.5%) exact matches, in which:
240 unique CDR3
7 unique J



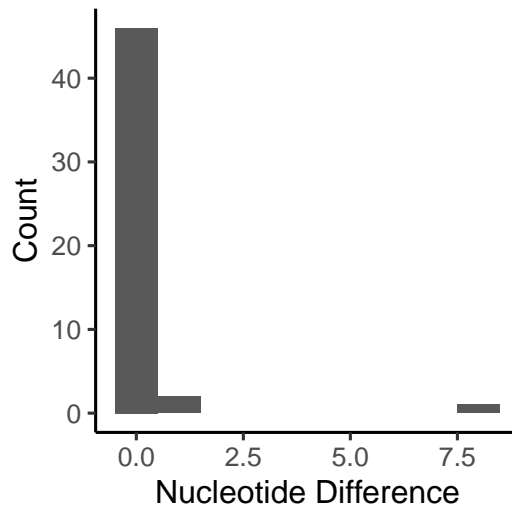
IGHV3–53*04

168 sequences assigned
156 (92.9%) exact matches, in which:
145 unique CDR3
5 unique J



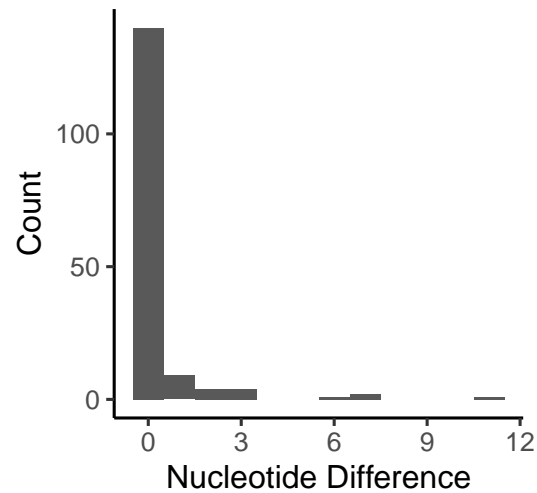
IGHV3–72*01

49 sequences assigned
46 (93.9%) exact matches, in which:
44 unique CDR3
6 unique J



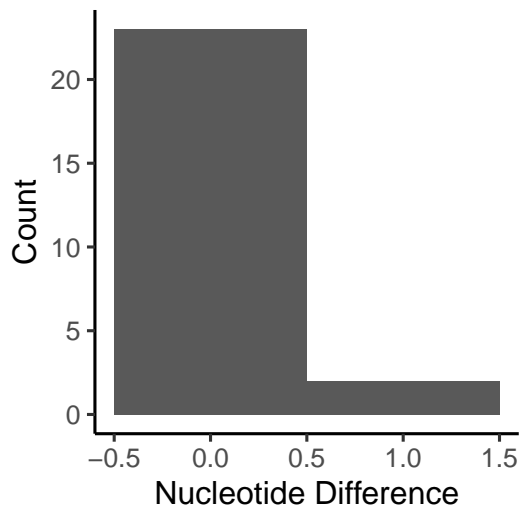
IGHV3–43D*03

161 sequences assigned
140 (87%) exact matches, in which:
134 unique CDR3
6 unique J



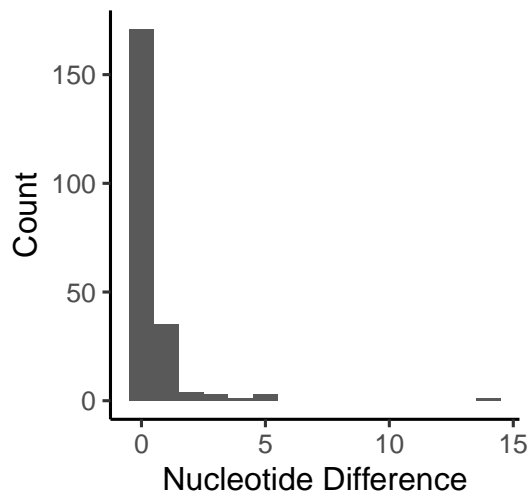
IGHV3–64*02

25 sequences assigned
23 (92%) exact matches, in which:
22 unique CDR3
6 unique J



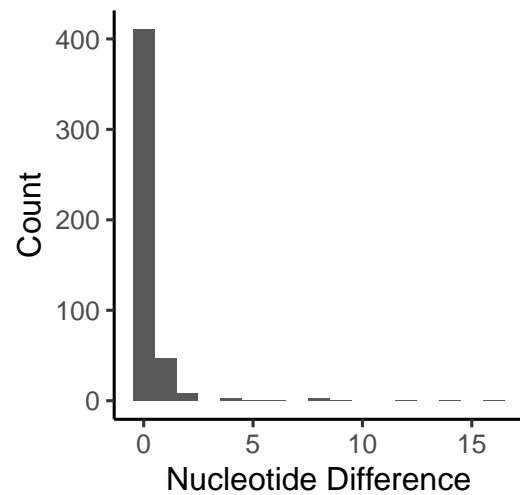
IGHV3–73*02

218 sequences assigned
171 (78.4%) exact matches, in which:
158 unique CDR3
6 unique J



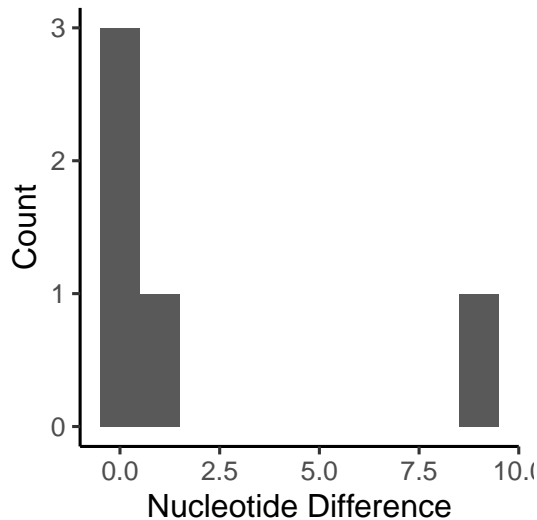
IGHV4–4*02

479 sequences assigned
411 (85.8%) exact matches, in which:
401 unique CDR3
7 unique J



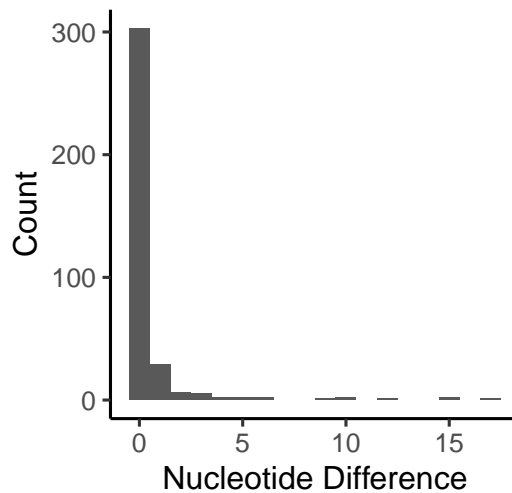
IGHV3–66*03

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
2 unique J



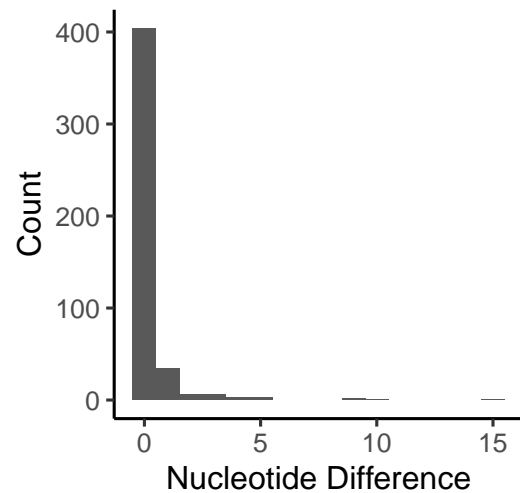
IGHV3–74*01

358 sequences assigned
303 (84.6%) exact matches, in which:
288 unique CDR3
7 unique J



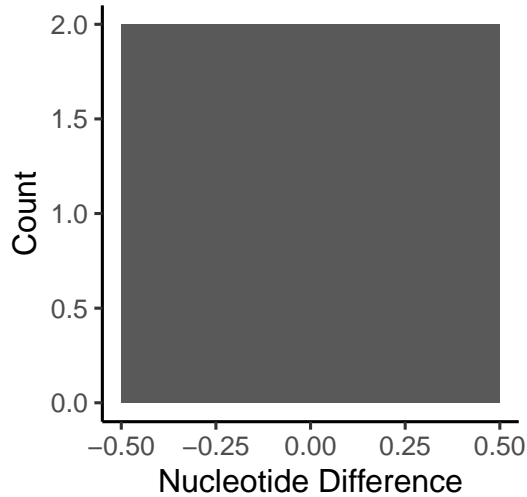
IGHV4–4*07

460 sequences assigned
404 (87.8%) exact matches, in which:
392 unique CDR3
7 unique J



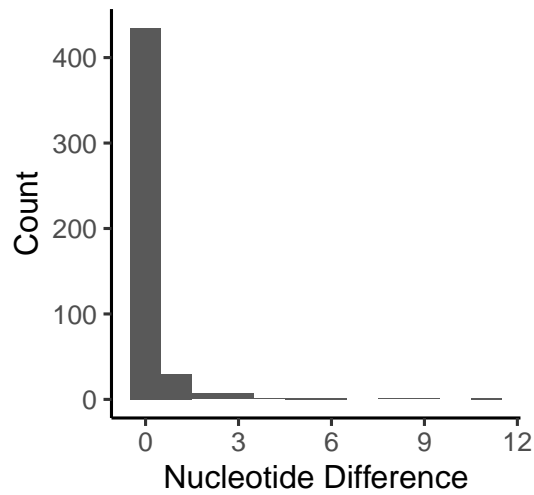
IGHV4-28*01

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



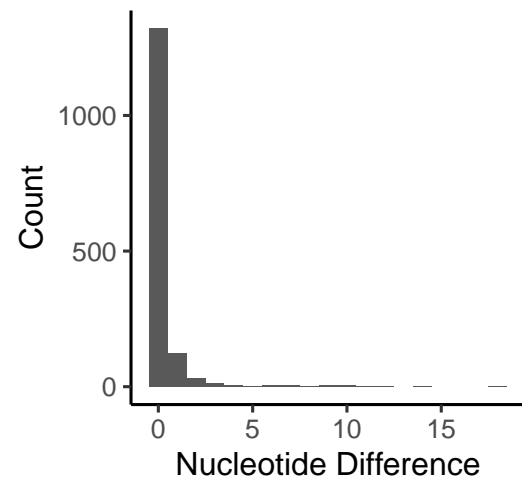
IGHV4-31*03

490 sequences assigned
435 (88.8%) exact matches, in which:
418 unique CDR3
6 unique J



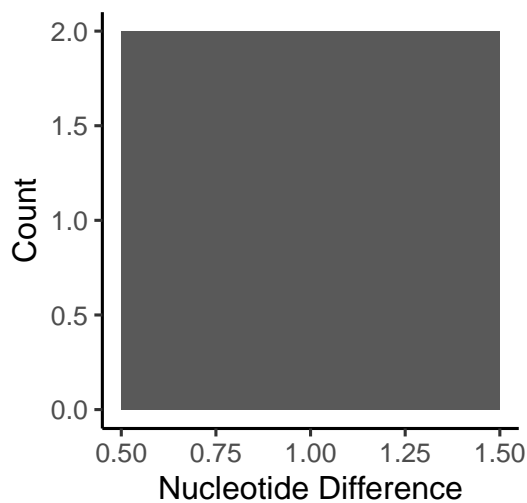
IGHV4-39*01

1524 sequences assigned
1321 (86.7%) exact matches, in which:
1253 unique CDR3
6 unique J



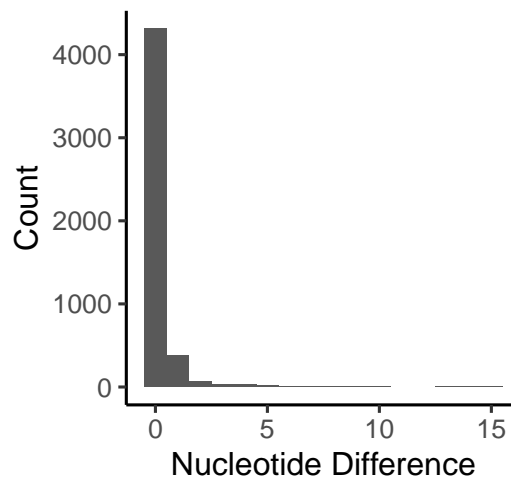
IGHV4-28*04

2 sequences assigned
No exact matches.



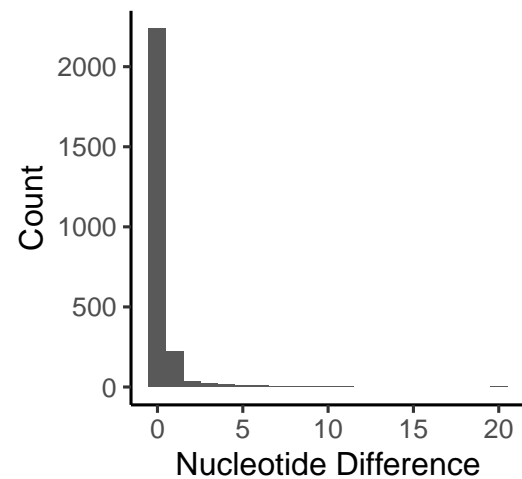
IGHV4-34*01

4858 sequences assigned
4312 (88.8%) exact matches, in which:
4091 unique CDR3
7 unique J



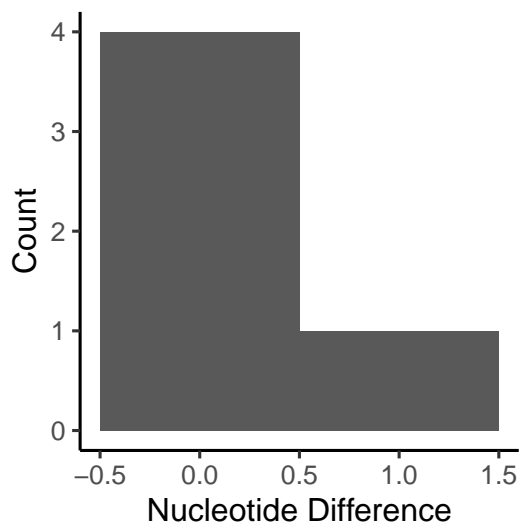
IGHV4-39*07

2580 sequences assigned
2237 (86.7%) exact matches, in which:
2109 unique CDR3
7 unique J



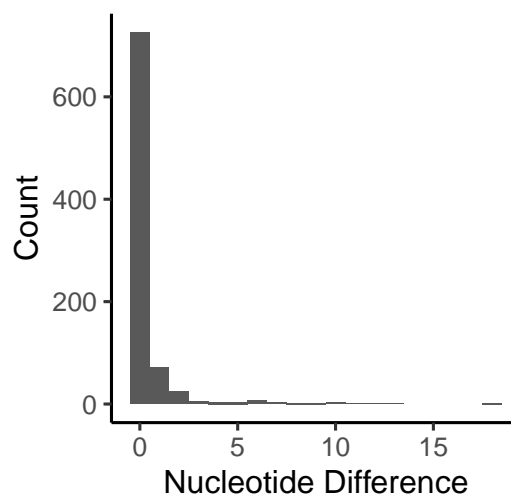
IGHV4-28*07

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



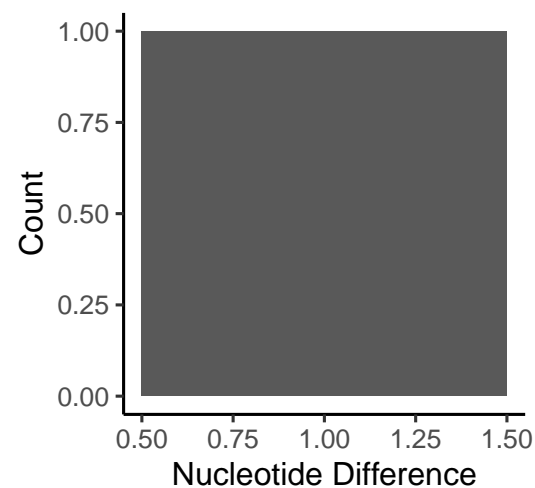
IGHV4-38-2*02

857 sequences assigned
726 (84.7%) exact matches, in which:
691 unique CDR3
6 unique J



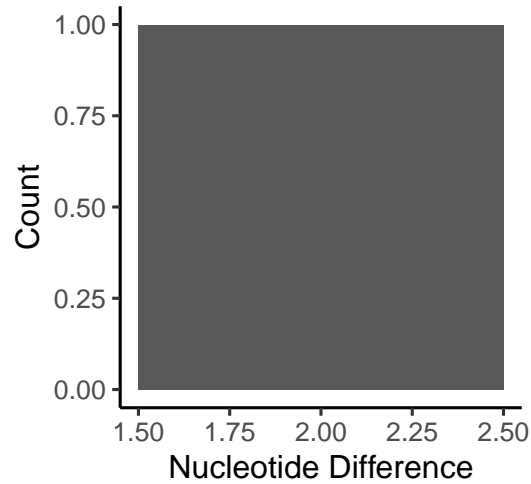
IGHV4-55*08

1 sequences assigned
No exact matches.



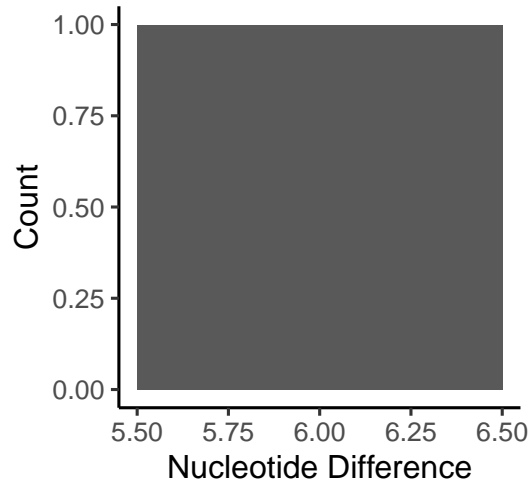
IGHV4–55*09

1 sequences assigned
No exact matches.



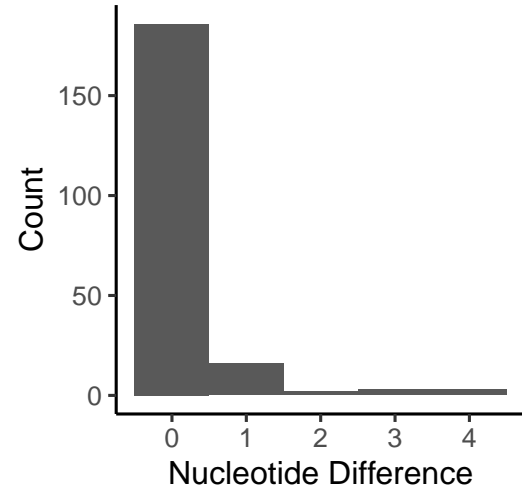
IGHV1/OR15–4*01

1 sequences assigned
No exact matches.



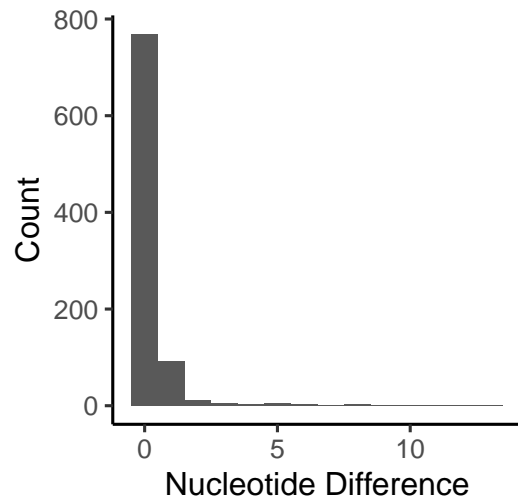
IGHV6–1*01

210 sequences assigned
186 (88.6%) exact matches, in which:
176 unique CDR3
6 unique J



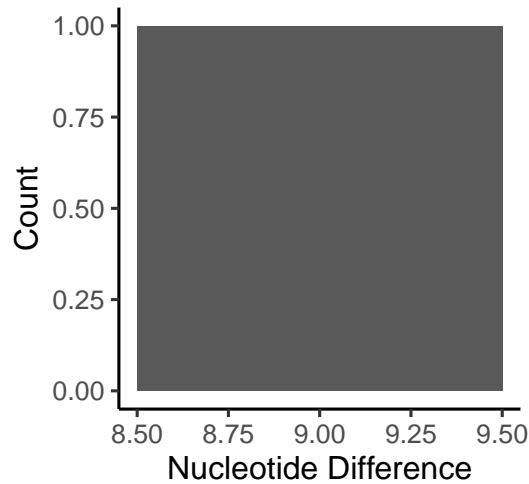
IGHV4–59*01

902 sequences assigned
769 (85.3%) exact matches, in which:
751 unique CDR3
7 unique J



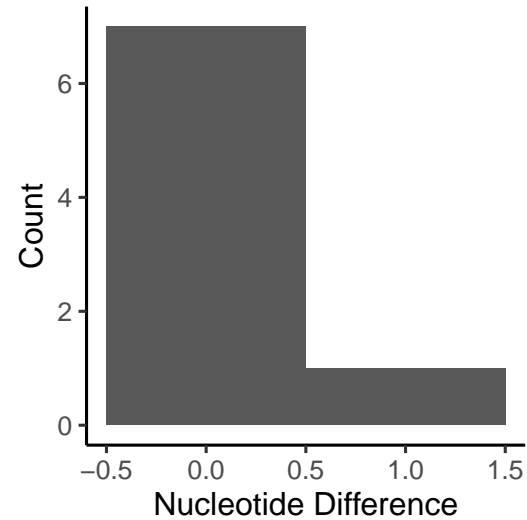
IGHV5–10–1*02

1 sequences assigned
No exact matches.



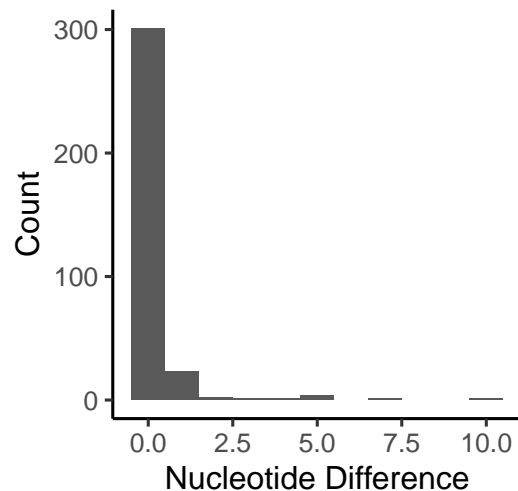
IGHV7–4–1*01

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
4 unique J



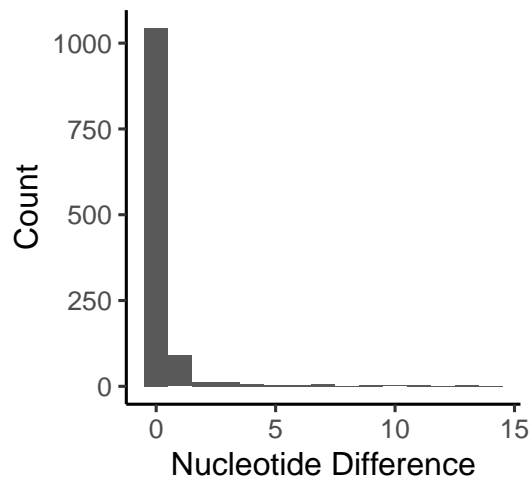
IGHV4–61*01

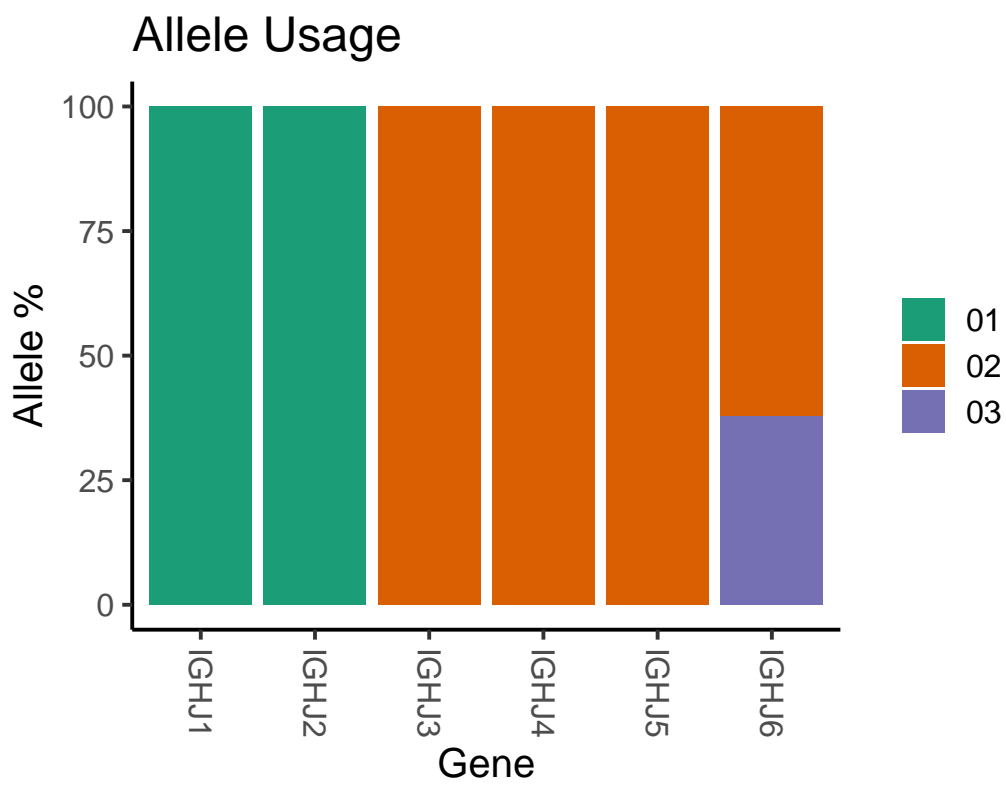
334 sequences assigned
301 (90.1%) exact matches, in which:
293 unique CDR3
7 unique J



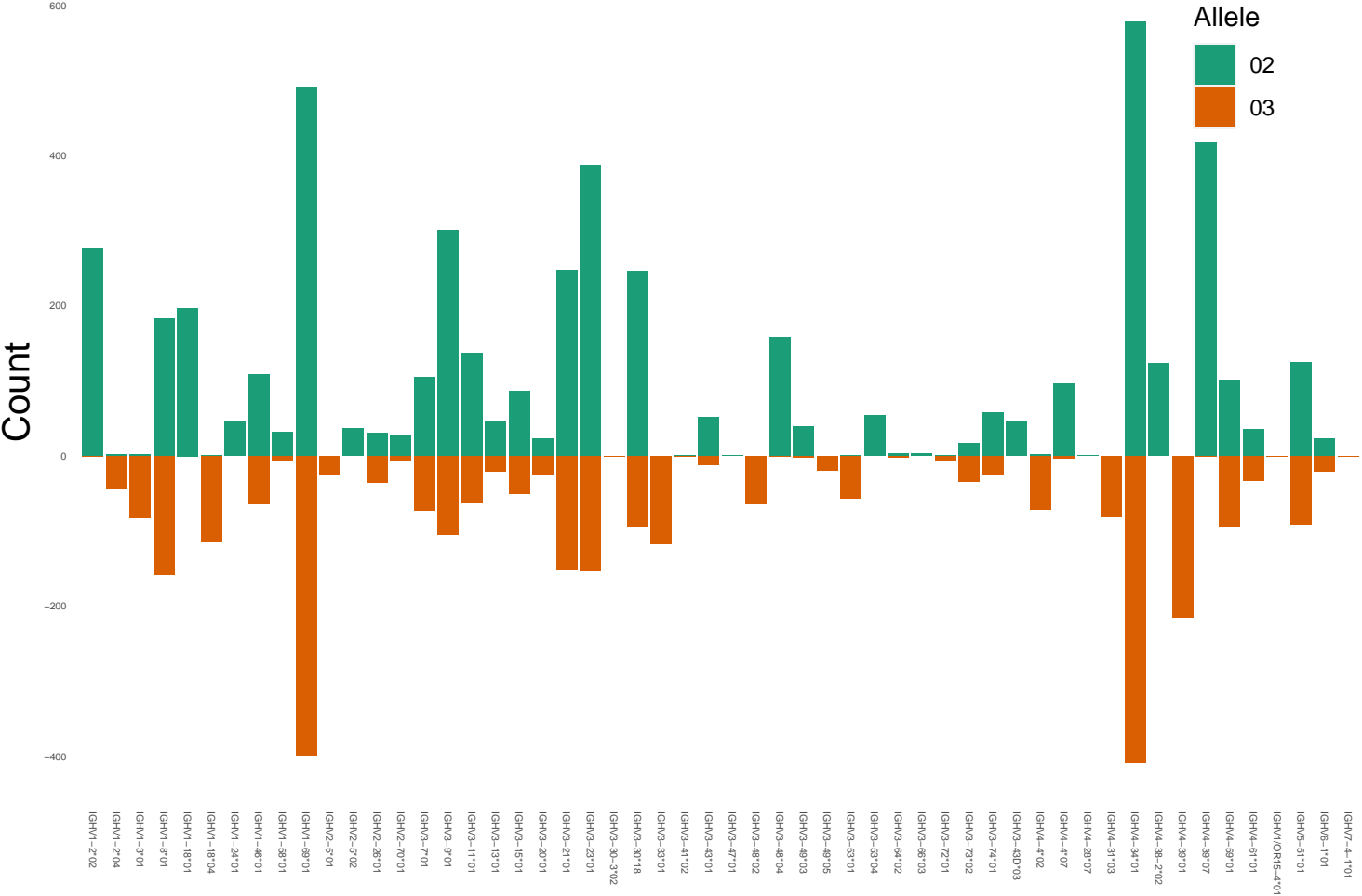
IGHV5–51*01

1192 sequences assigned
1044 (87.6%) exact matches, in which:
1001 unique CDR3
7 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.