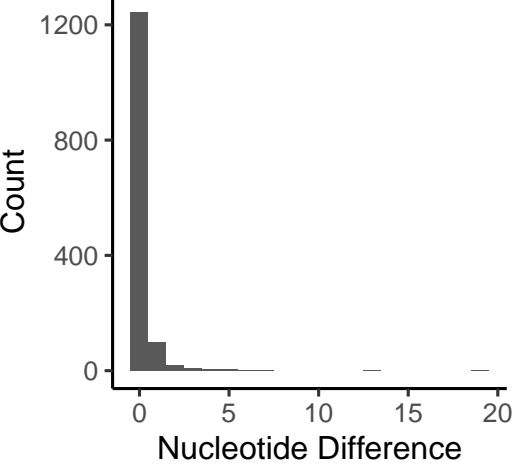


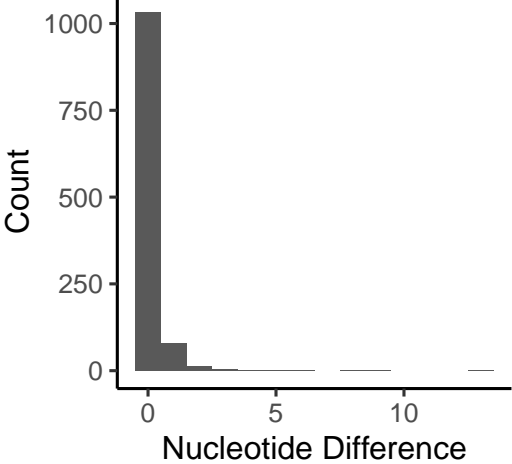
IGHV1-2*02

1384 sequences assigned
1243 (89.8%) exact matches, in which:
1183 unique CDR3
6 unique J



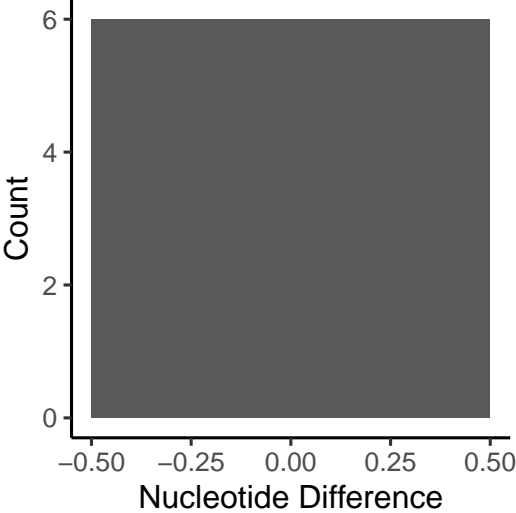
IGHV1-8*01

1138 sequences assigned
1032 (90.7%) exact matches, in which:
985 unique CDR3
6 unique J



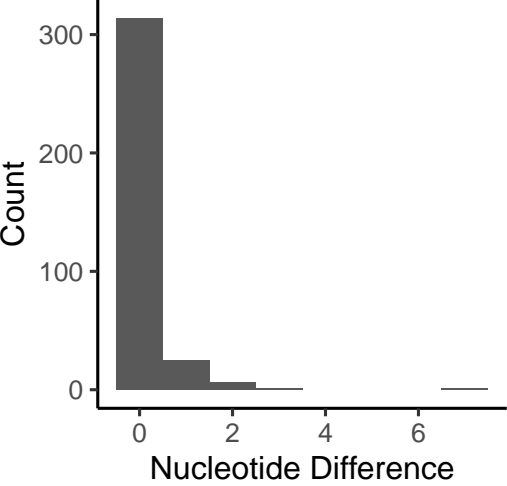
IGHV1-45*02

6 sequences assigned
6 (100%) exact matches, in which:
6 unique CDR3
2 unique J



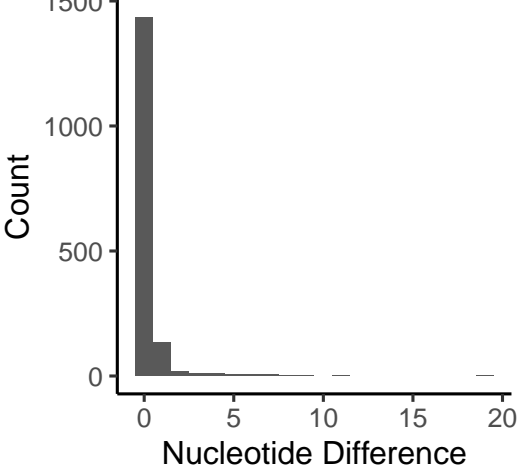
IGHV1-2*04

347 sequences assigned
314 (90.5%) exact matches, in which:
289 unique CDR3
6 unique J



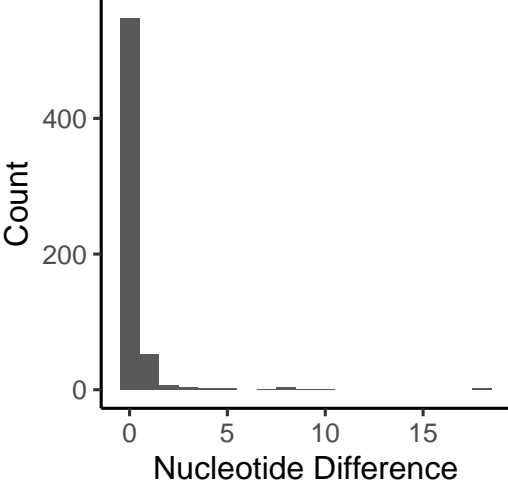
IGHV1-18*01

1626 sequences assigned
1433 (88.1%) exact matches, in which:
1381 unique CDR3
6 unique J



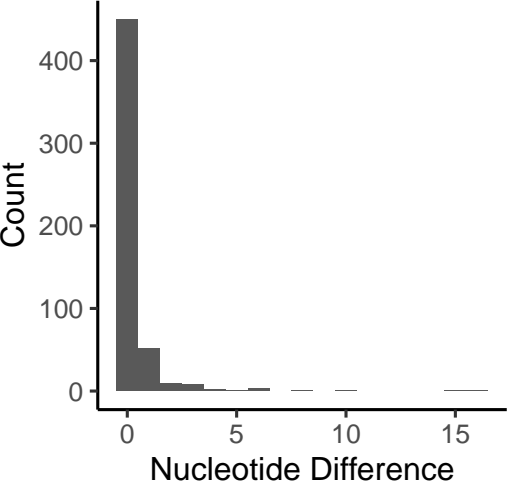
IGHV1-46*01

623 sequences assigned
548 (88%) exact matches, in which:
521 unique CDR3
6 unique J



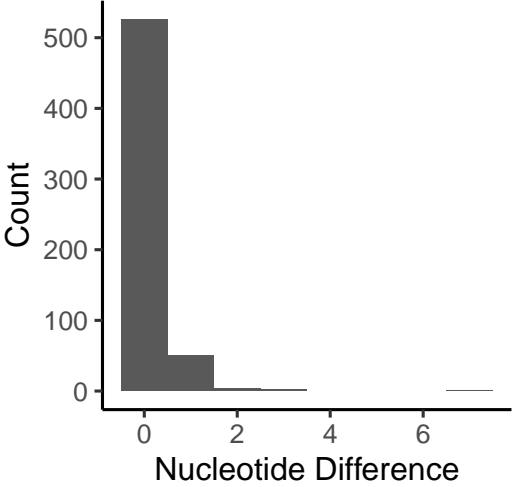
IGHV1-3*01

529 sequences assigned
450 (85.1%) exact matches, in which:
436 unique CDR3
6 unique J



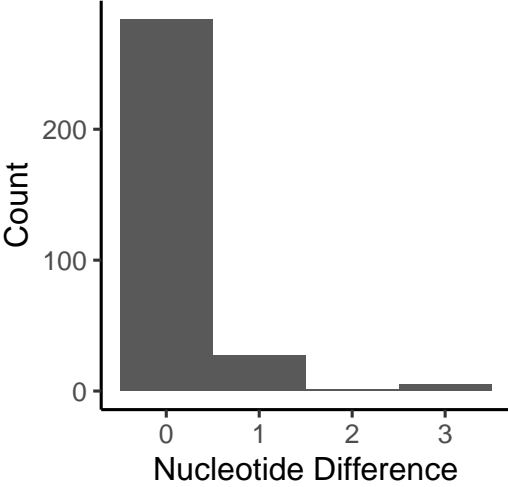
IGHV1-24*01

583 sequences assigned
526 (90.2%) exact matches, in which:
503 unique CDR3
6 unique J



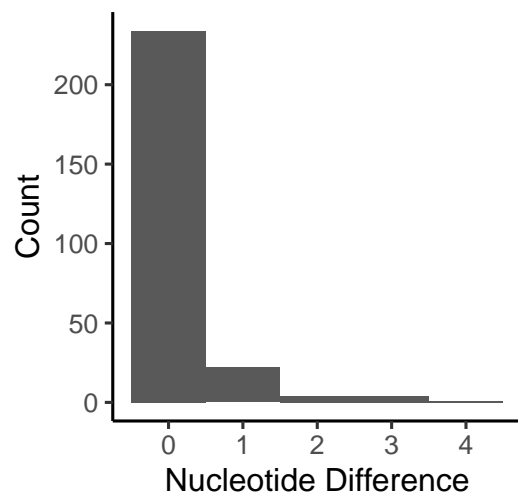
IGHV1-46*03

318 sequences assigned
284 (89.3%) exact matches, in which:
265 unique CDR3
6 unique J



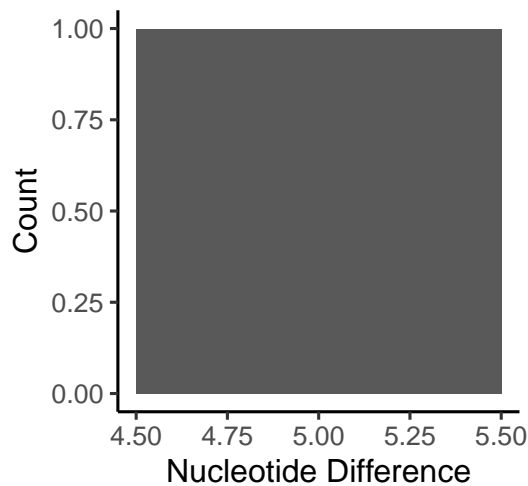
IGHV1–58*01

265 sequences assigned
234 (88.3%) exact matches, in which:
220 unique CDR3
6 unique J



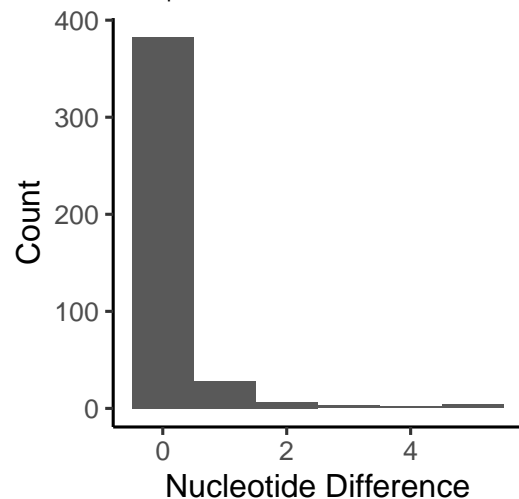
IGHV1–NL1*01

1 sequences assigned
No exact matches.



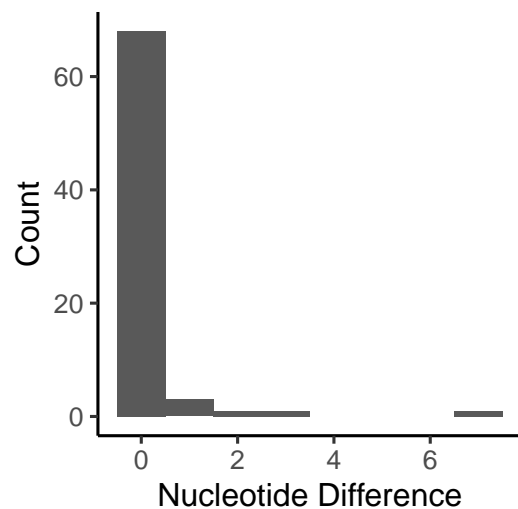
IGHV2–26*01

427 sequences assigned
383 (89.7%) exact matches, in which:
373 unique CDR3
6 unique J



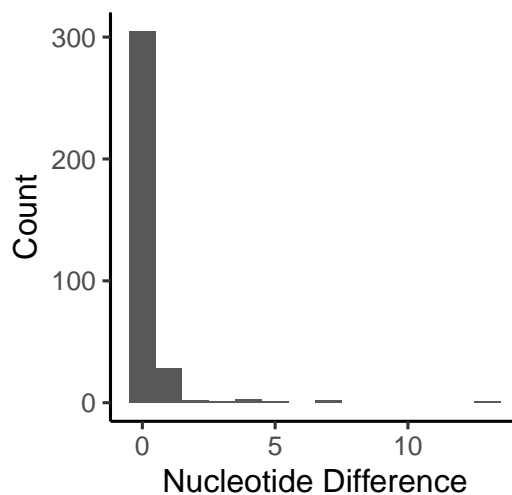
IGHV1–69–2*01

74 sequences assigned
68 (91.9%) exact matches, in which:
67 unique CDR3
5 unique J



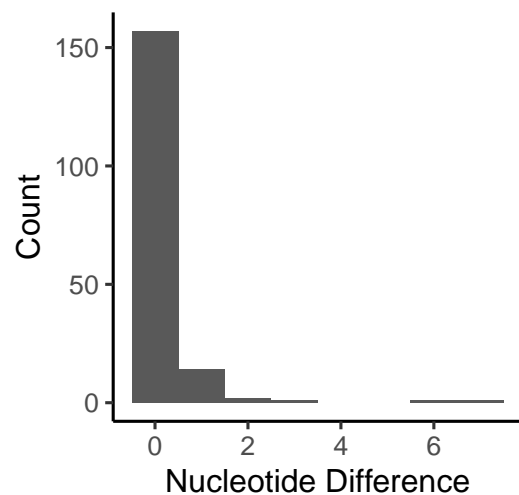
IGHV2–5*01

343 sequences assigned
305 (88.9%) exact matches, in which:
295 unique CDR3
6 unique J



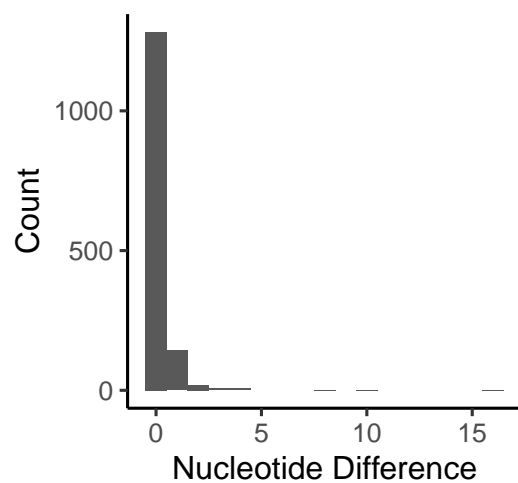
IGHV2–70*01

176 sequences assigned
157 (89.2%) exact matches, in which:
153 unique CDR3
5 unique J



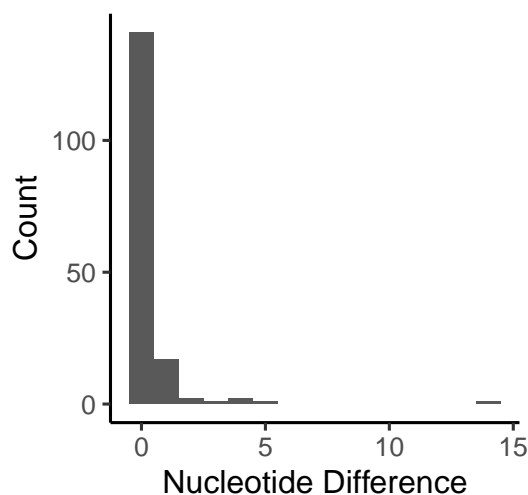
IGHV1–69*06

1463 sequences assigned
1282 (87.6%) exact matches, in which:
1203 unique CDR3
6 unique J



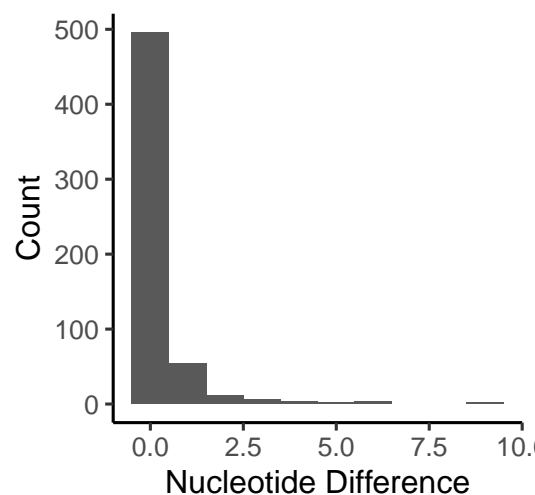
IGHV2–5*02

165 sequences assigned
141 (85.5%) exact matches, in which:
139 unique CDR3
6 unique J



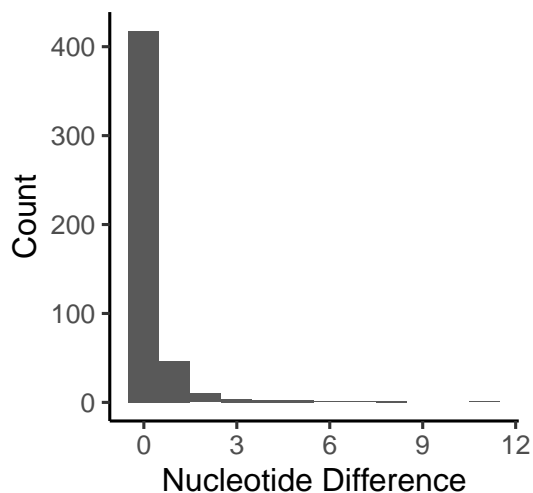
IGHV3–7*01

578 sequences assigned
496 (85.8%) exact matches, in which:
477 unique CDR3
6 unique J



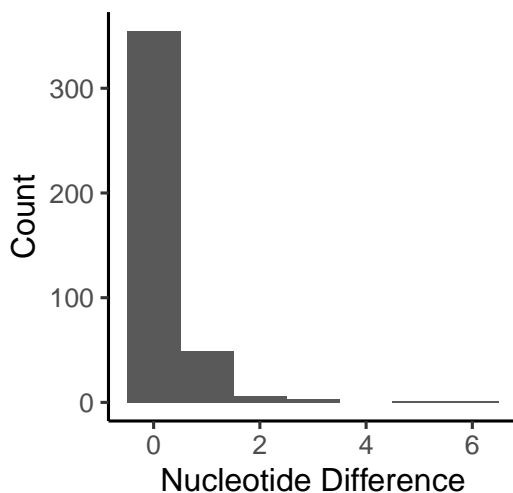
IGHV3-7*03

490 sequences assigned
418 (85.3%) exact matches, in which:
396 unique CDR3
6 unique J



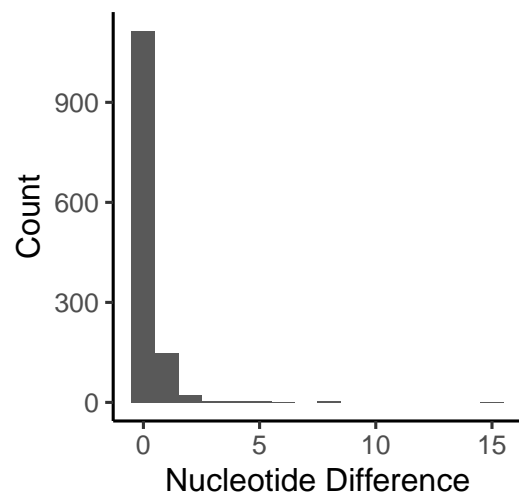
IGHV3-11*06

415 sequences assigned
355 (85.5%) exact matches, in which:
335 unique CDR3
6 unique J



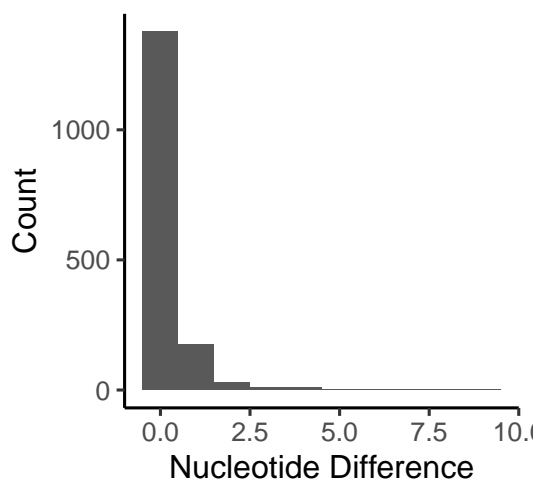
IGHV3-15*01

1304 sequences assigned
1115 (85.5%) exact matches, in which:
1066 unique CDR3
6 unique J



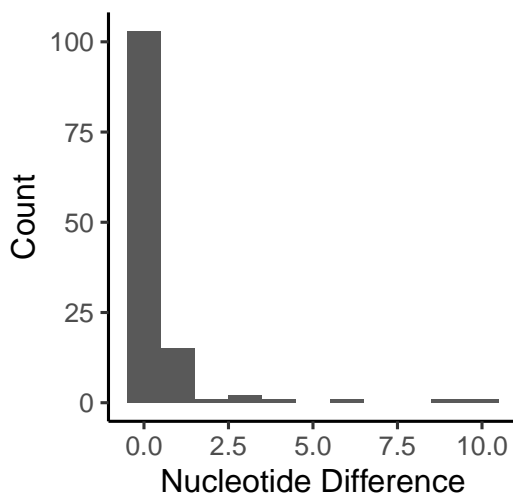
IGHV3-9*01

1606 sequences assigned
1377 (85.7%) exact matches, in which:
1270 unique CDR3
6 unique J



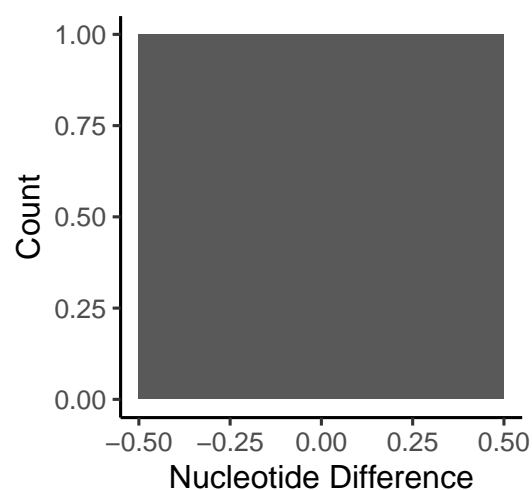
IGHV3-13*01

125 sequences assigned
103 (82.4%) exact matches, in which:
98 unique CDR3
5 unique J



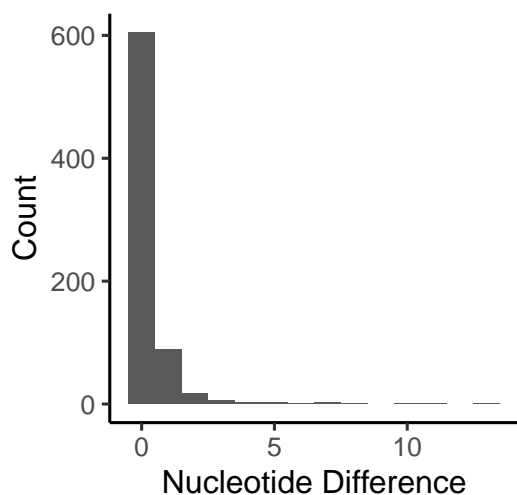
IGHV3-19*01

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



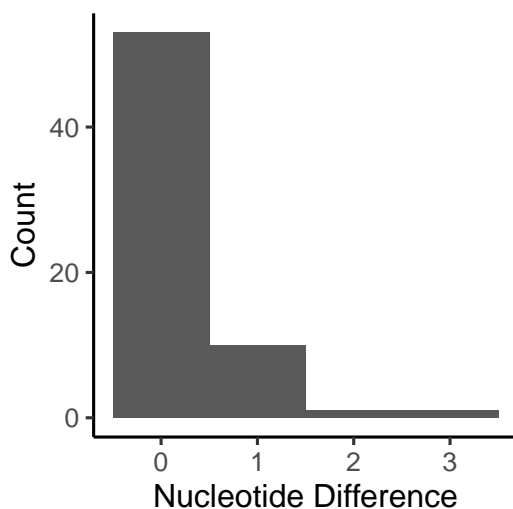
IGHV3-11*01

729 sequences assigned
605 (83%) exact matches, in which:
574 unique CDR3
6 unique J



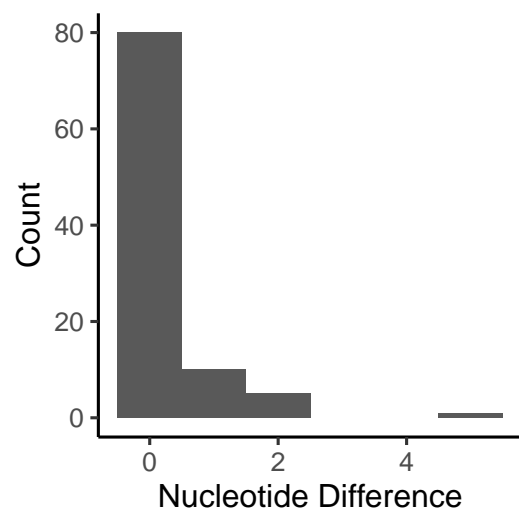
IGHV3-13*05

65 sequences assigned
53 (81.5%) exact matches, in which:
50 unique CDR3
5 unique J



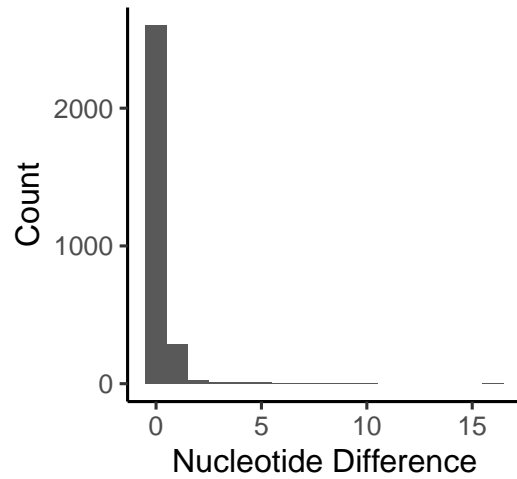
IGHV3-20*01

96 sequences assigned
80 (83.3%) exact matches, in which:
75 unique CDR3
5 unique J



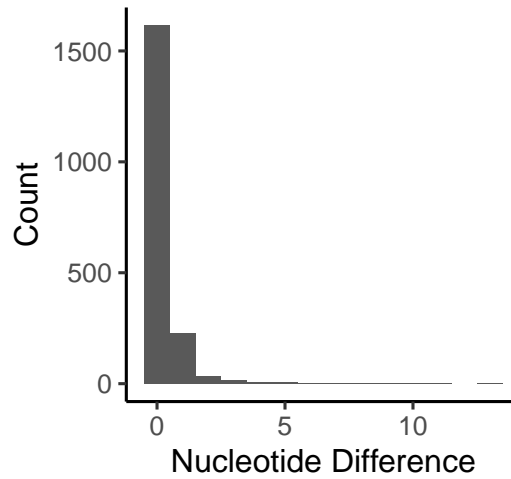
IGHV3-21*01

2975 sequences assigned
2601 (87.4%) exact matches, in which:
2437 unique CDR3
6 unique J



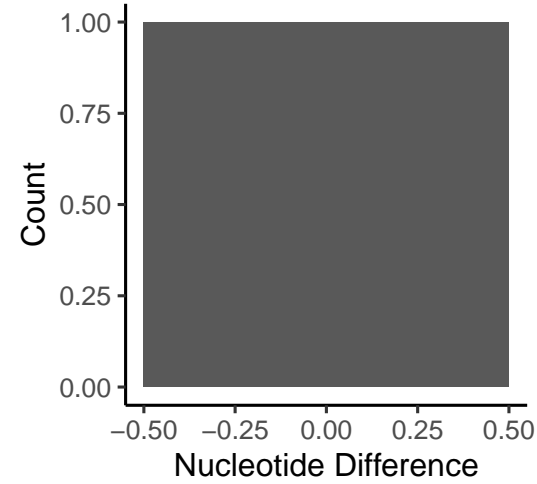
IGHV3-33*01

1913 sequences assigned
1615 (84.4%) exact matches, in which:
1519 unique CDR3
6 unique J



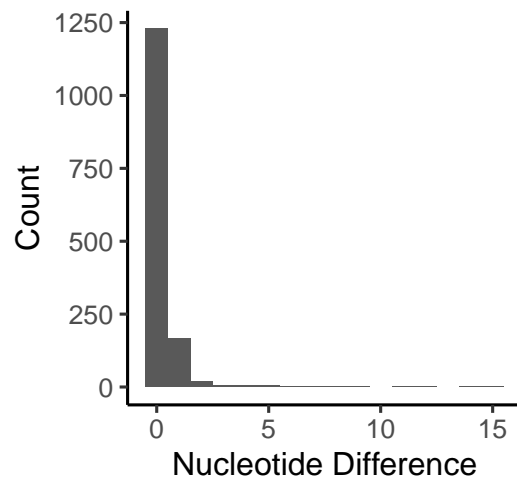
IGHV3-47*02

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



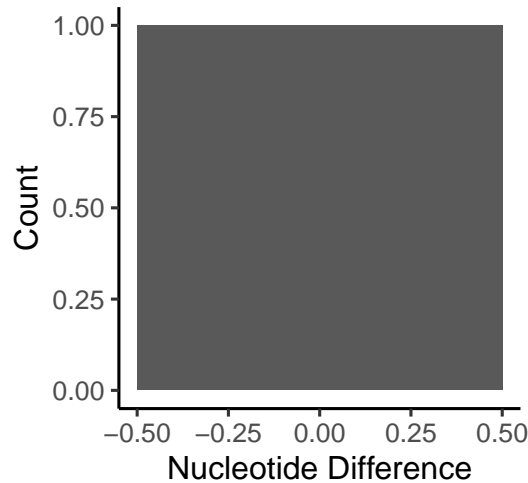
IGHV3-30-3*01

1446 sequences assigned
1229 (85%) exact matches, in which:
1158 unique CDR3
6 unique J



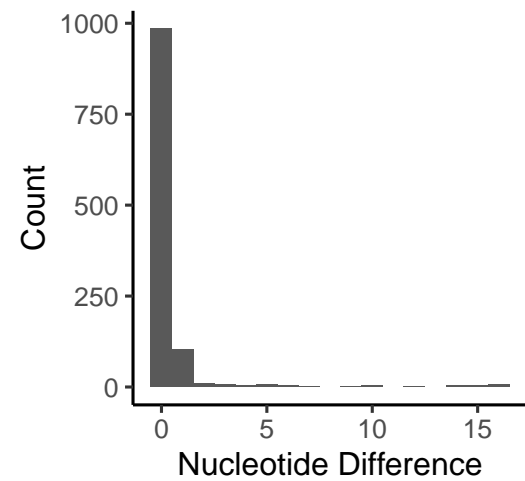
IGHV3-35*01

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



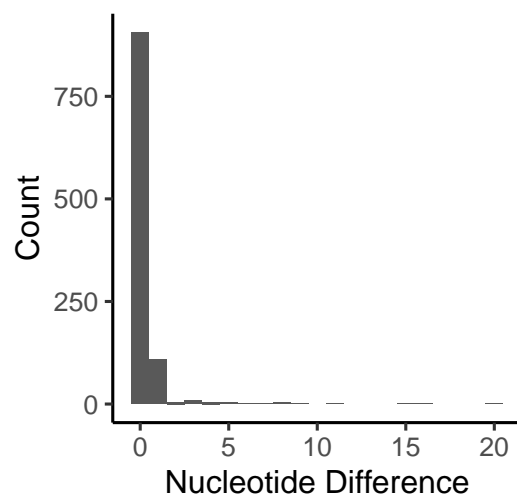
IGHV3-48*02

1137 sequences assigned
985 (86.6%) exact matches, in which:
929 unique CDR3
6 unique J



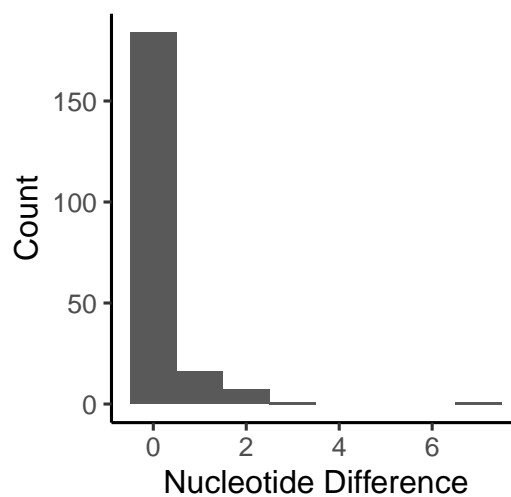
IGHV3-30*03

1049 sequences assigned
906 (86.4%) exact matches, in which:
844 unique CDR3
6 unique J



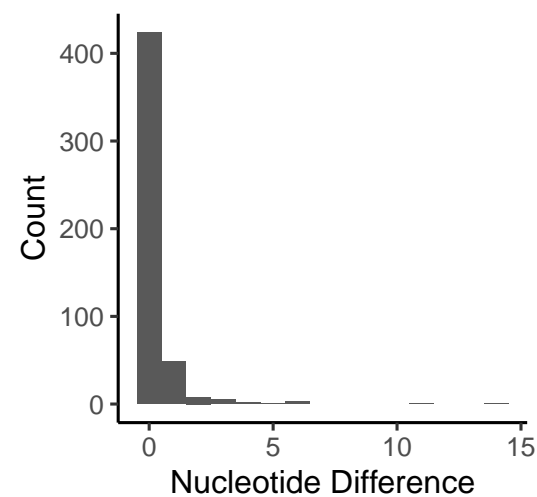
IGHV3-43*01

209 sequences assigned
184 (88%) exact matches, in which:
173 unique CDR3
6 unique J



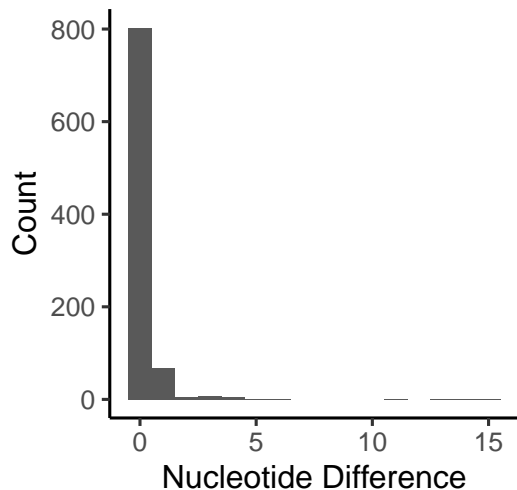
IGHV3-49*05

493 sequences assigned
424 (86%) exact matches, in which:
399 unique CDR3
6 unique J



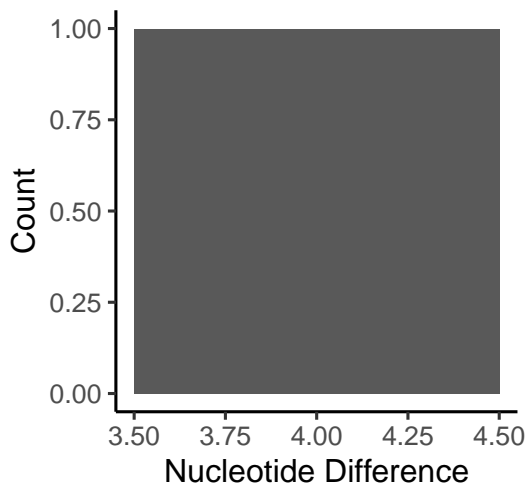
IGHV3–53*01

896 sequences assigned
803 (89.6%) exact matches, in which:
764 unique CDR3
6 unique J



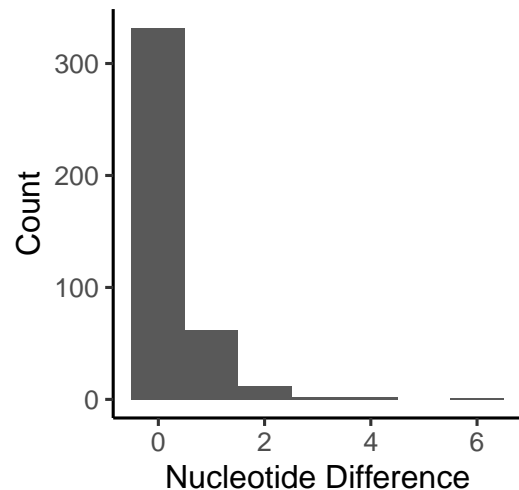
IGHV3–66*01

1 sequences assigned
No exact matches.



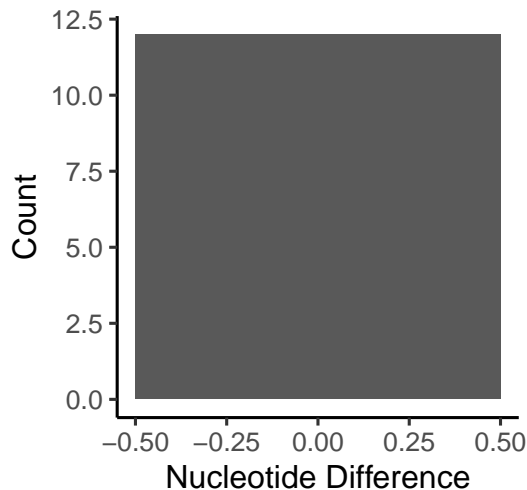
IGHV3–73*02

411 sequences assigned
332 (80.8%) exact matches, in which:
312 unique CDR3
6 unique J



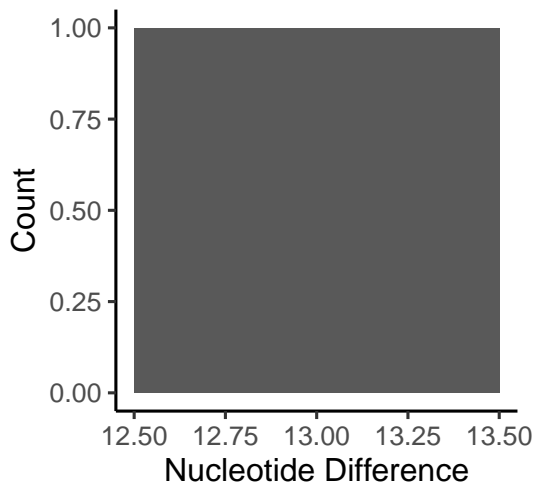
IGHV3–64*02

12 sequences assigned
12 (100%) exact matches, in which:
12 unique CDR3
3 unique J



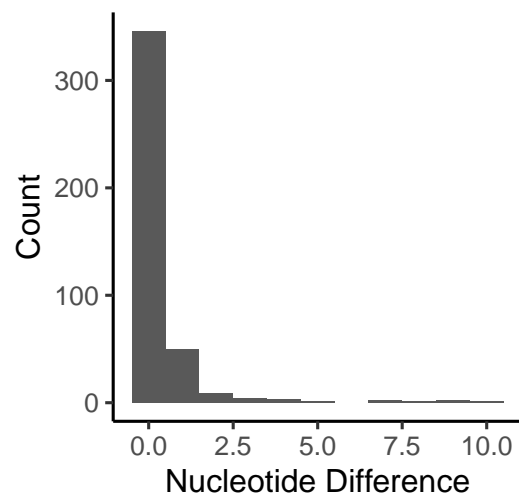
IGHV3–66*02

1 sequences assigned
No exact matches.



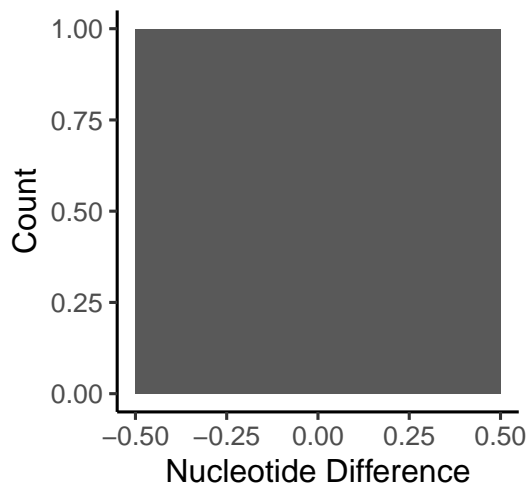
IGHV3–74*01

419 sequences assigned
346 (82.6%) exact matches, in which:
332 unique CDR3
6 unique J



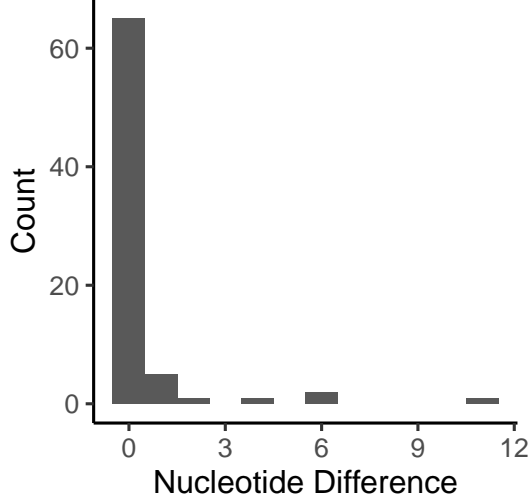
IGHV3–64*04

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



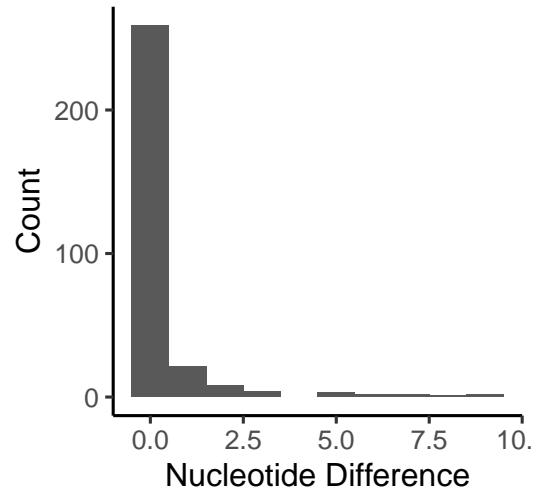
IGHV3–72*01

75 sequences assigned
65 (86.7%) exact matches, in which:
61 unique CDR3
5 unique J



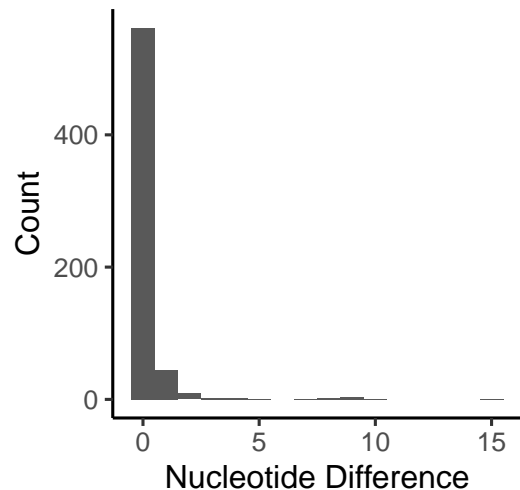
IGHV3–64D*09

302 sequences assigned
259 (85.8%) exact matches, in which:
239 unique CDR3
6 unique J



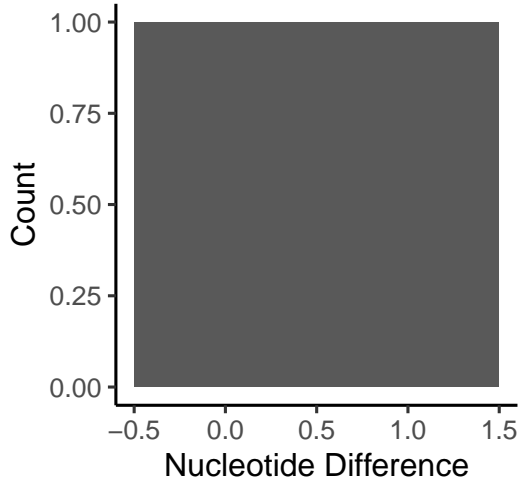
IGHV4-4*02

629 sequences assigned
562 (89.3%) exact matches, in which:
539 unique CDR3
6 unique J



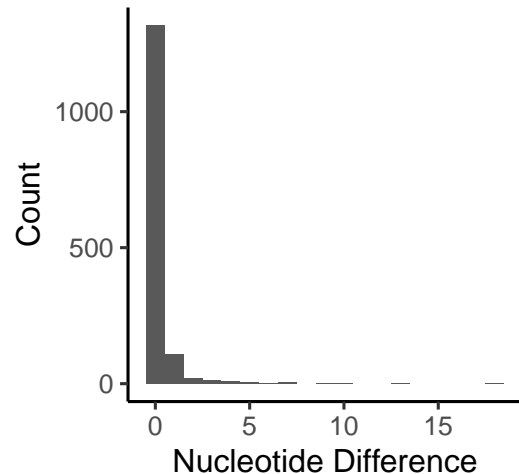
IGHV4-28*03

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



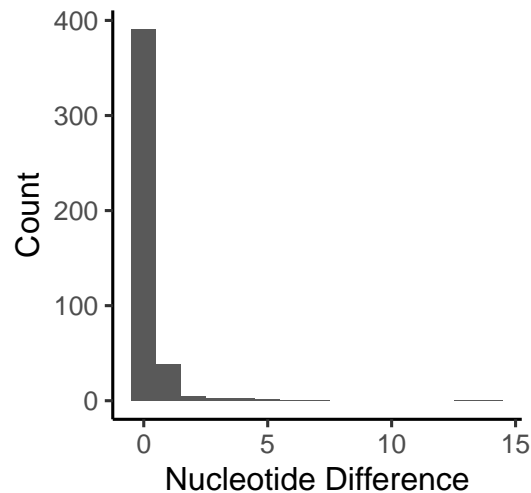
IGHV4-31*03

1486 sequences assigned
1317 (88.6%) exact matches, in which:
1256 unique CDR3
6 unique J



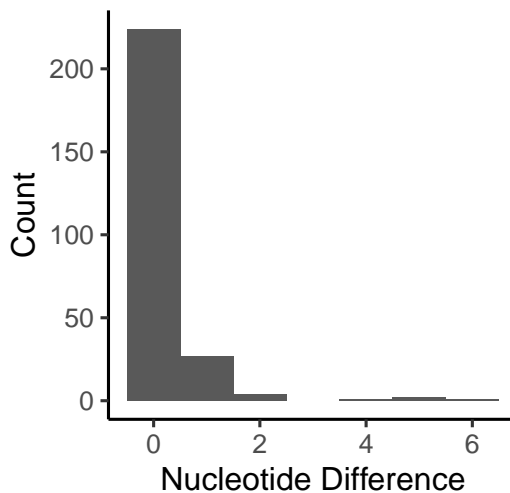
IGHV4-4*07

446 sequences assigned
391 (87.7%) exact matches, in which:
378 unique CDR3
6 unique J



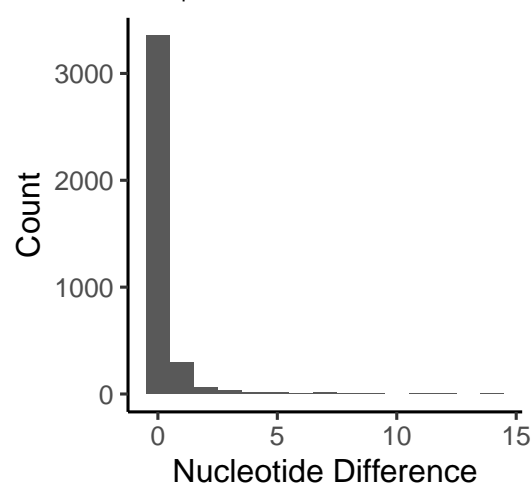
IGHV4-30-2*01

259 sequences assigned
224 (86.5%) exact matches, in which:
213 unique CDR3
5 unique J



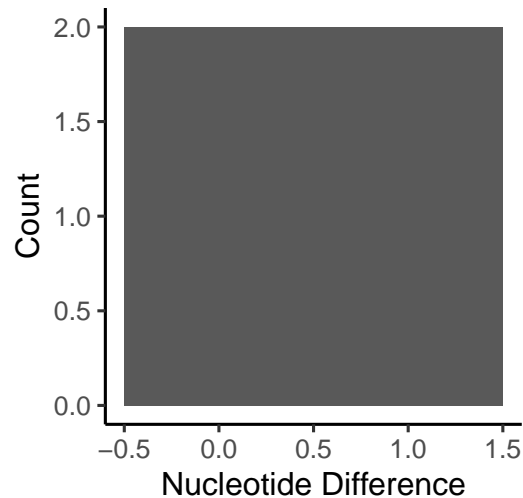
IGHV4-34*01

3801 sequences assigned
3353 (88.2%) exact matches, in which:
3141 unique CDR3
6 unique J



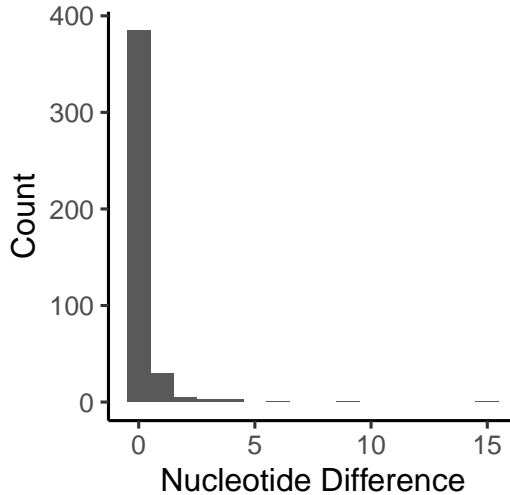
IGHV4-28*01

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



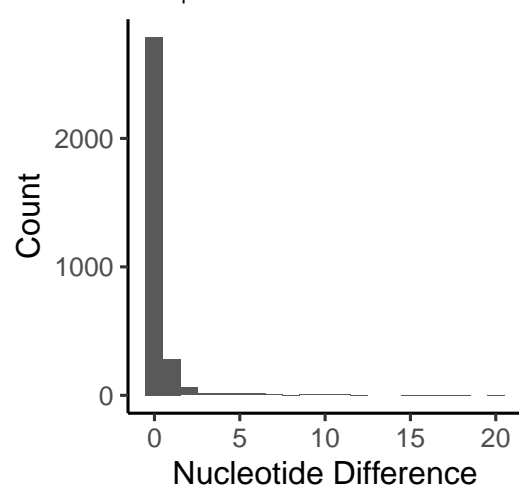
IGHV4-30-4*01

430 sequences assigned
385 (89.5%) exact matches, in which:
371 unique CDR3
6 unique J



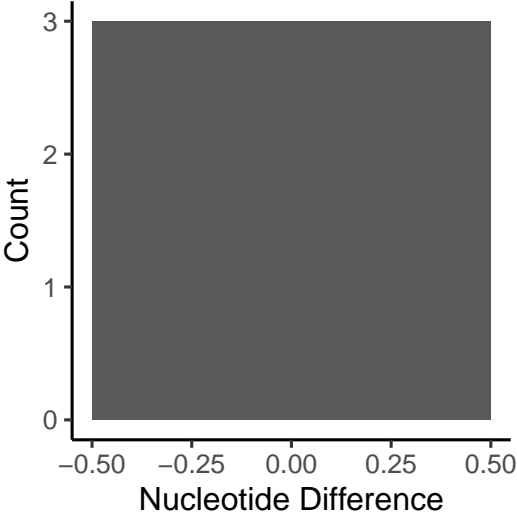
IGHV4-39*01

3221 sequences assigned
2789 (86.6%) exact matches, in which:
2630 unique CDR3
6 unique J



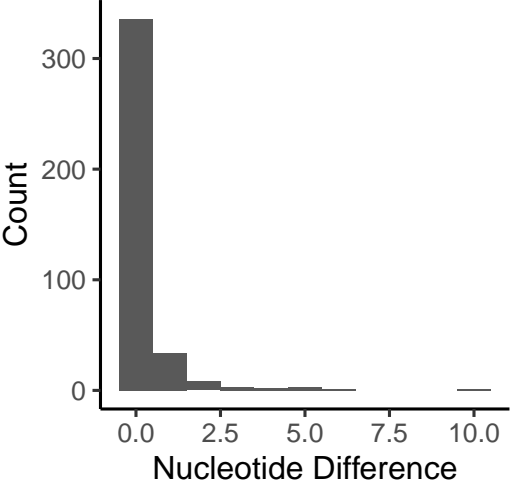
IGHV4–55*01

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



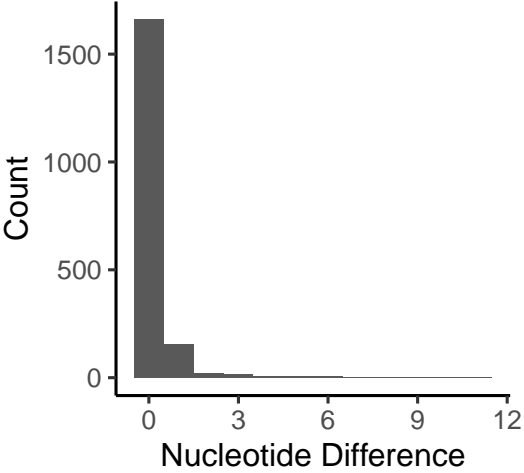
IGHV4–61*01

388 sequences assigned
336 (86.6%) exact matches, in which:
328 unique CDR3
6 unique J



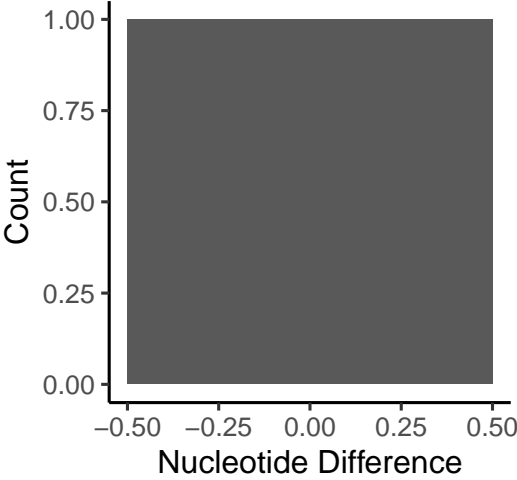
IGHV5–51*01

1881 sequences assigned
1661 (88.3%) exact matches, in which:
1579 unique CDR3
6 unique J



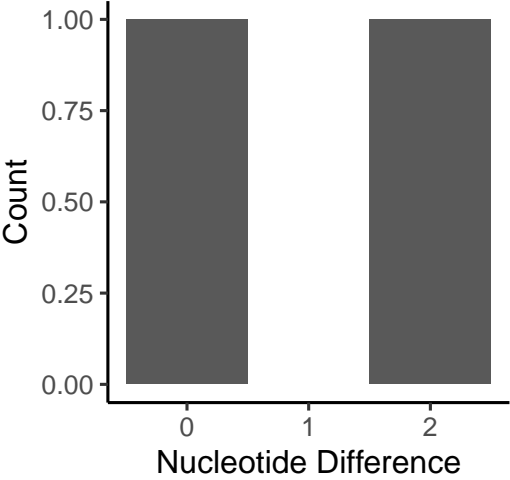
IGHV4–55*08

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



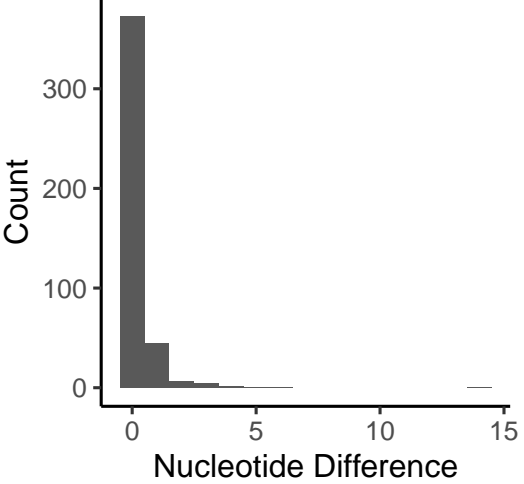
IGHV1/OR15–2*01

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



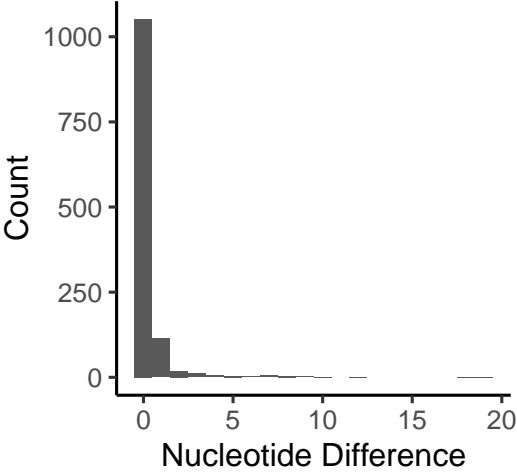
IGHV6–1*01

435 sequences assigned
373 (85.7%) exact matches, in which:
346 unique CDR3
6 unique J



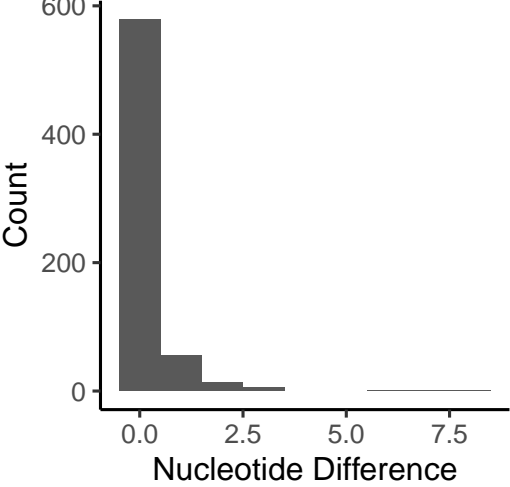
IGHV4–59*01

1220 sequences assigned
1052 (86.2%) exact matches, in which:
1022 unique CDR3
6 unique J



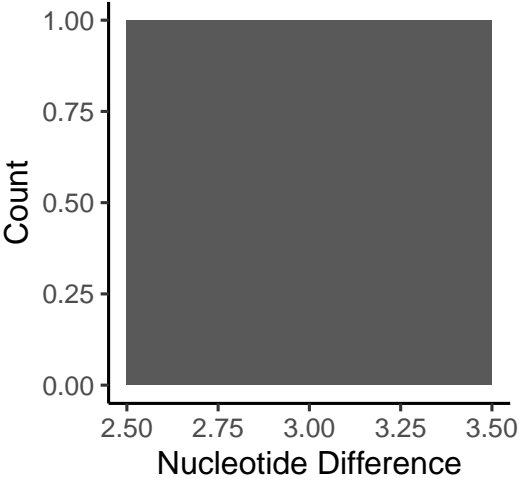
IGHV5–10–1*03

657 sequences assigned
579 (88.1%) exact matches, in which:
541 unique CDR3
6 unique J



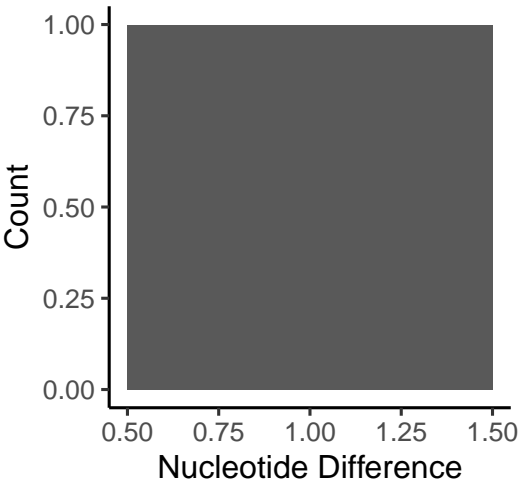
IGHV3/OR16–6*02

1 sequences assigned
No exact matches.



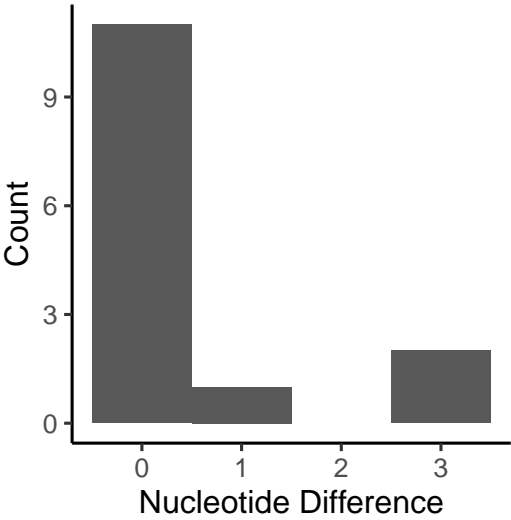
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



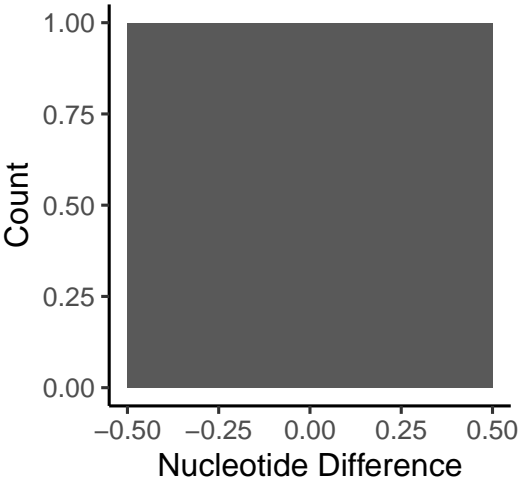
IGHV7-4-1*01

14 sequences assigned
11 (78.6%) exact matches, in which:
11 unique CDR3
3 unique J



IGHV7-81*01

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





Warning – no inferred sequences found.