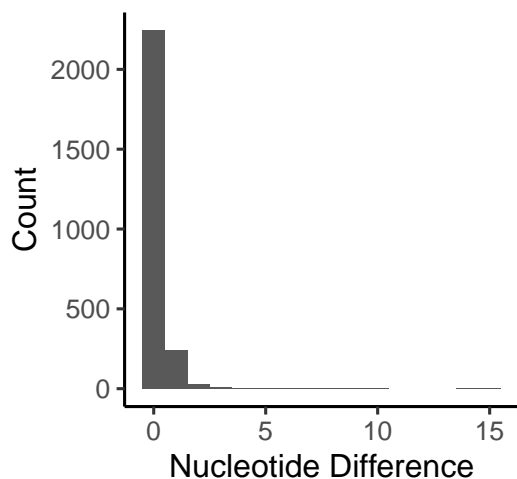


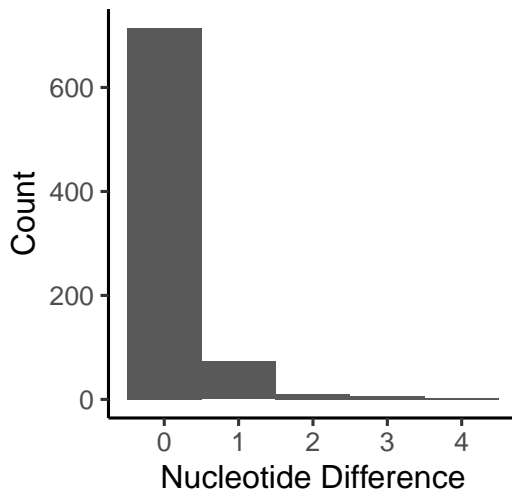
IGHV1-2*02

2539 sequences assigned
2244 (88.4%) exact matches, in which:
2125 unique CDR3
6 unique J



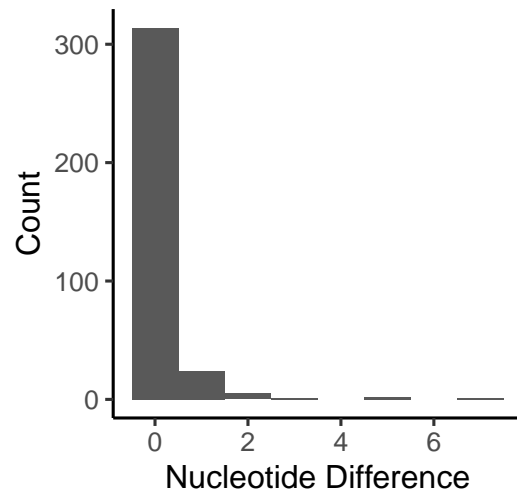
IGHV1-24*01

806 sequences assigned
715 (88.7%) exact matches, in which:
677 unique CDR3
6 unique J



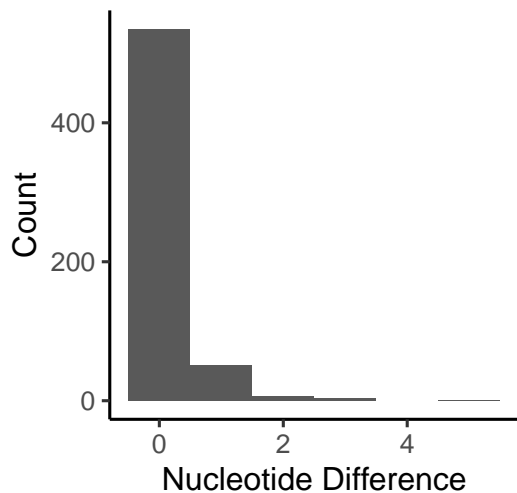
IGHV1-58*01

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



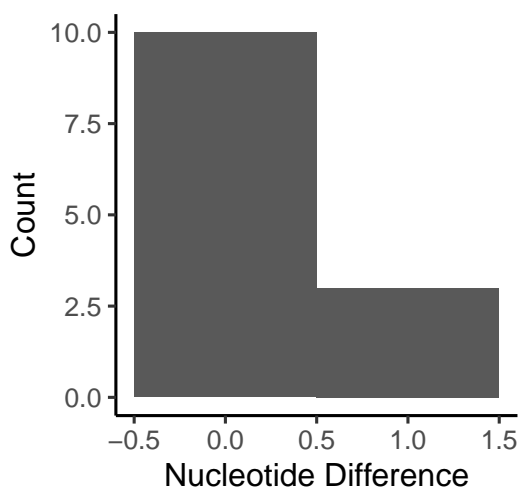
IGHV1-8*01

597 sequences assigned
535 (89.6%) exact matches, in which:
503 unique CDR3
6 unique J



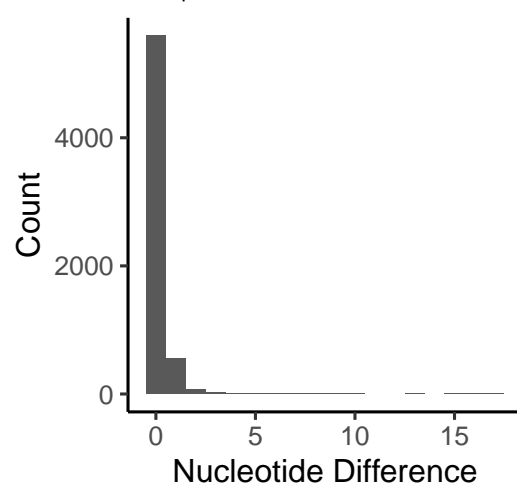
IGHV1-45*02

13 sequences assigned
10 (76.9%) exact matches, in which:
10 unique CDR3
4 unique J



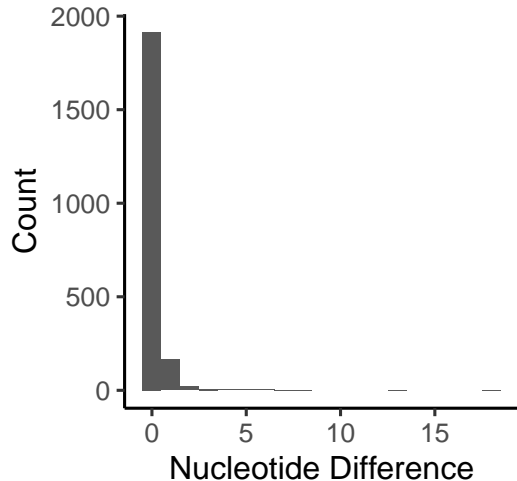
IGHV1-69*01

6292 sequences assigned
5593 (88.9%) exact matches, in which:
5233 unique CDR3
6 unique J



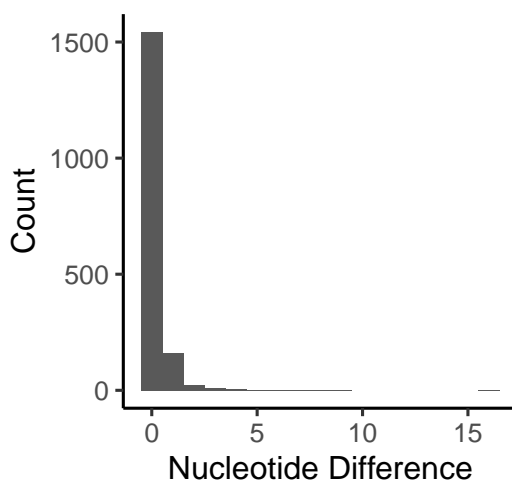
IGHV1-18*01

2123 sequences assigned
1915 (90.2%) exact matches, in which:
1822 unique CDR3
6 unique J



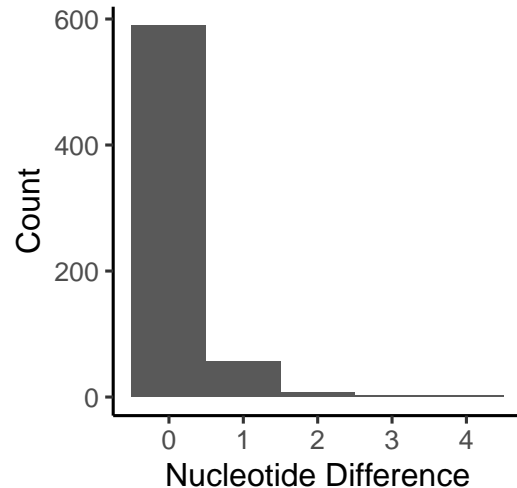
IGHV1-46*01

1747 sequences assigned
1543 (88.3%) exact matches, in which:
1466 unique CDR3
6 unique J



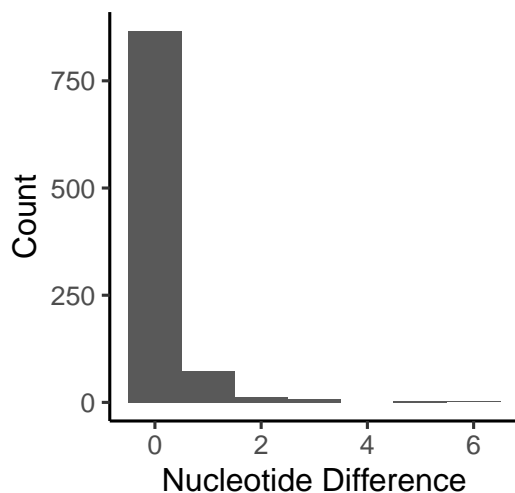
IGHV2-5*01

658 sequences assigned
590 (89.7%) exact matches, in which:
561 unique CDR3
6 unique J



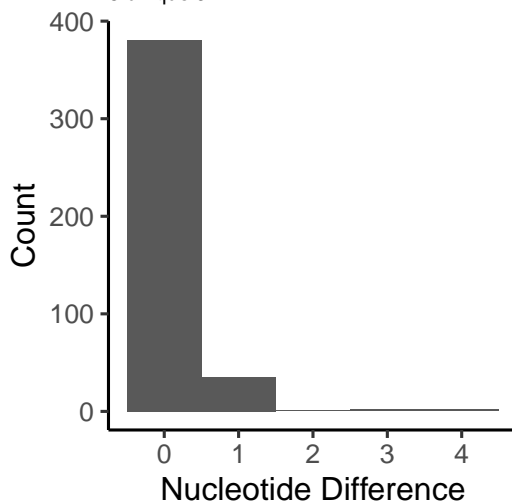
IGHV2-5*02

964 sequences assigned
867 (89.9%) exact matches, in which:
822 unique CDR3
6 unique J



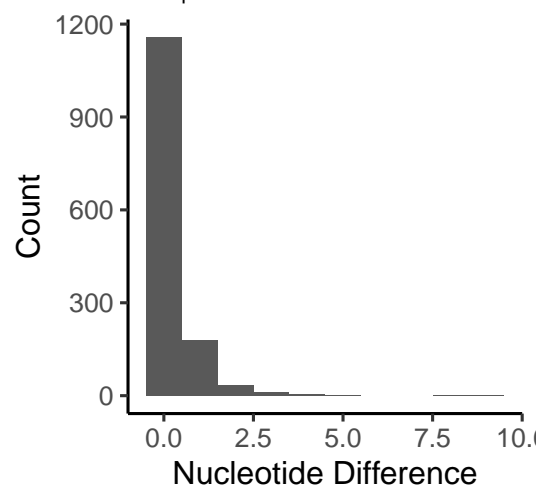
IGHV2-70*01

421 sequences assigned
381 (90.5%) exact matches, in which:
370 unique CDR3
5 unique J



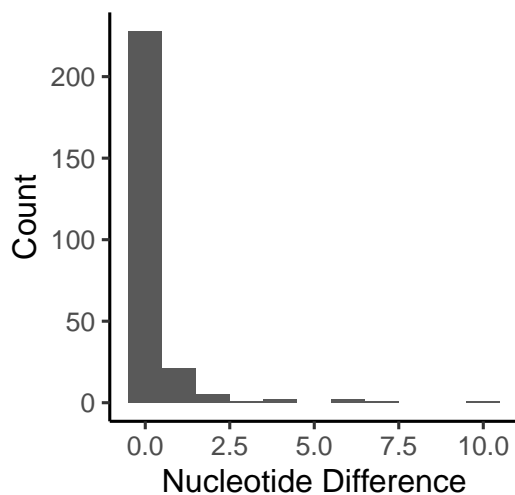
IGHV3-9*01

1390 sequences assigned
1157 (83.2%) exact matches, in which:
1081 unique CDR3
6 unique J



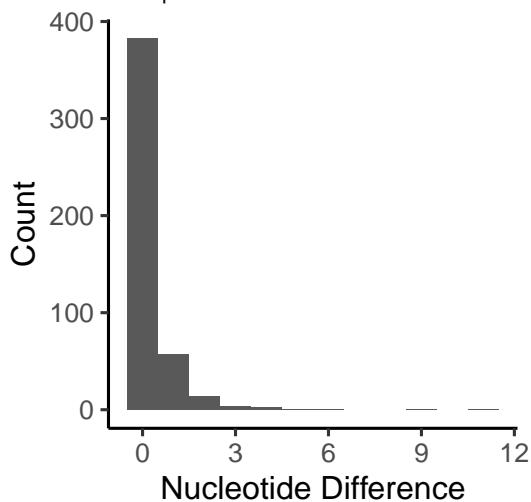
IGHV2-26*01

261 sequences assigned
228 (87.4%) exact matches, in which:
220 unique CDR3
5 unique J



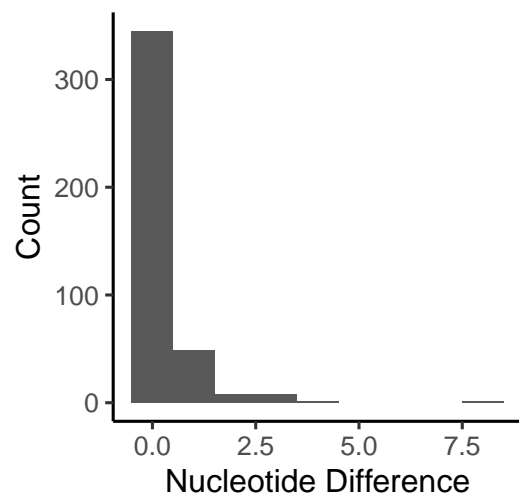
IGHV3-7*01

465 sequences assigned
383 (82.4%) exact matches, in which:
367 unique CDR3
6 unique J



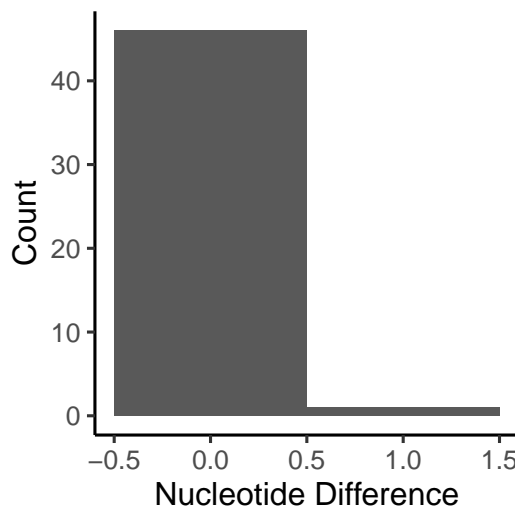
IGHV3-11*01

412 sequences assigned
345 (83.7%) exact matches, in which:
333 unique CDR3
5 unique J



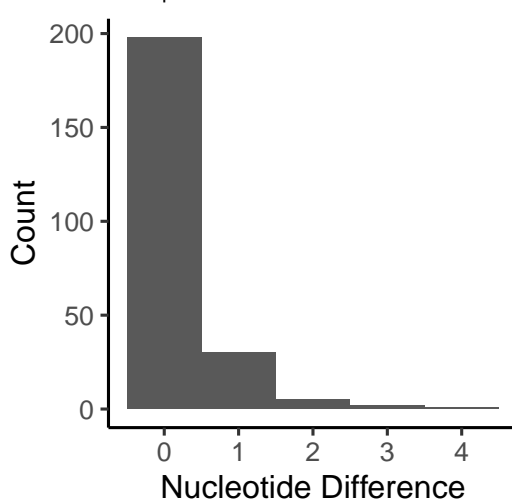
IGHV2-26*04

47 sequences assigned
46 (97.9%) exact matches, in which:
44 unique CDR3
4 unique J



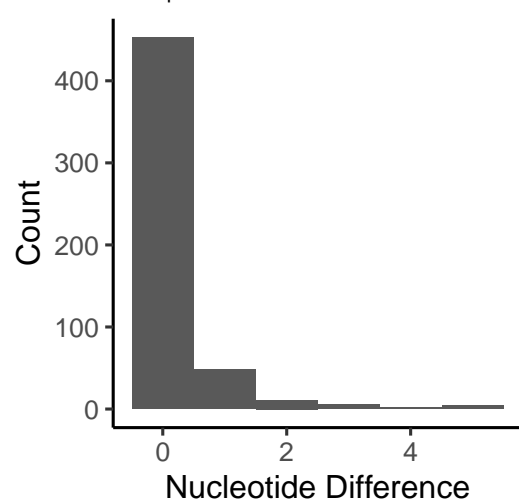
IGHV3-7*04

236 sequences assigned
198 (83.9%) exact matches, in which:
186 unique CDR3
6 unique J



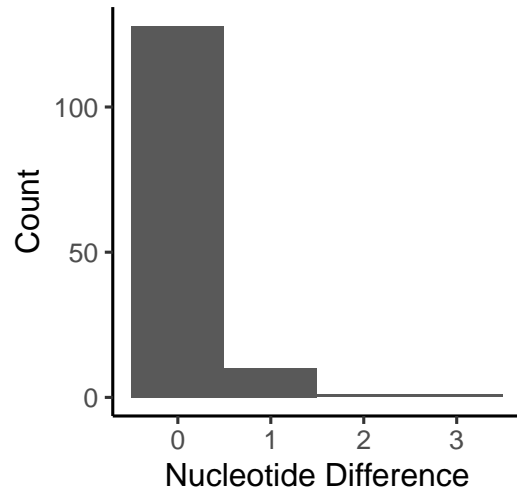
IGHV3-11*05

524 sequences assigned
453 (86.5%) exact matches, in which:
435 unique CDR3
6 unique J



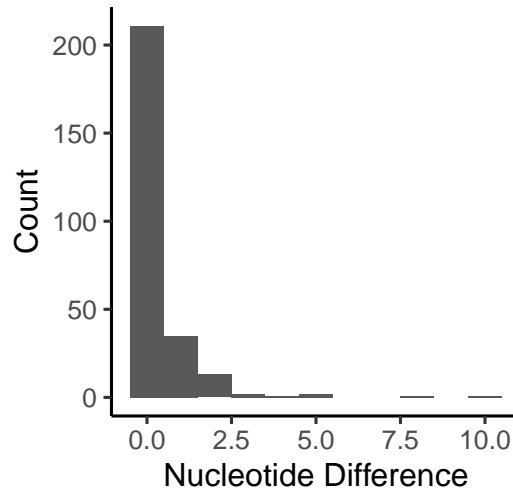
IGHV3-13*01

140 sequences assigned
128 (91.4%) exact matches, in which:
122 unique CDR3
5 unique J



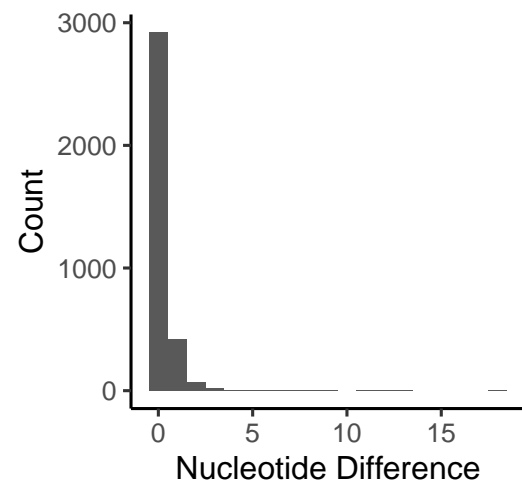
IGHV3-20*04

266 sequences assigned
211 (79.3%) exact matches, in which:
199 unique CDR3
5 unique J



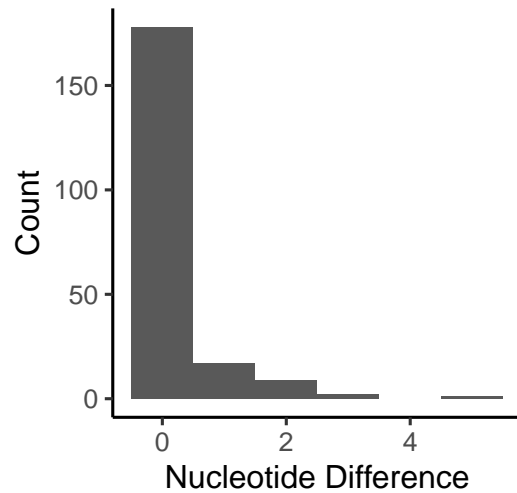
IGHV3-23*01

3457 sequences assigned
2921 (84.5%) exact matches, in which:
2723 unique CDR3
6 unique J



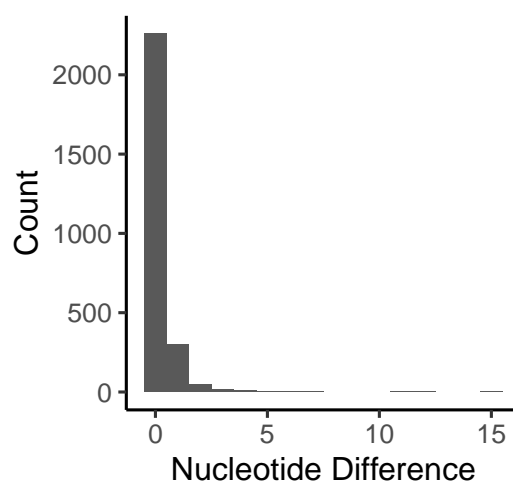
IGHV3-13*04

207 sequences assigned
178 (86%) exact matches, in which:
173 unique CDR3
5 unique J



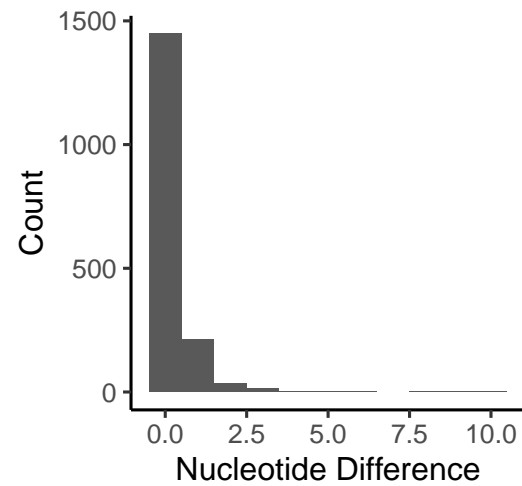
IGHV3-21*01

2646 sequences assigned
2259 (85.4%) exact matches, in which:
2129 unique CDR3
6 unique J



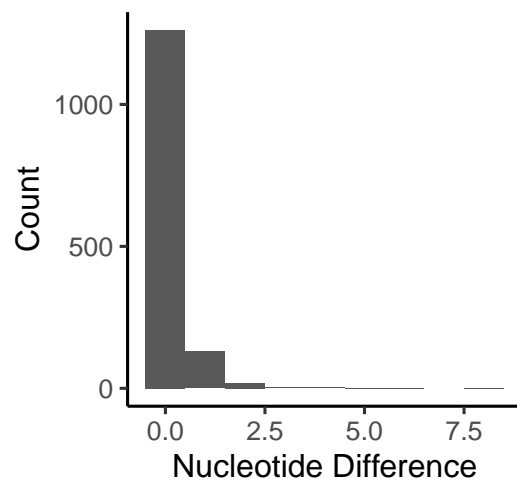
IGHV3-30-3*01

1724 sequences assigned
1448 (84%) exact matches, in which:
1364 unique CDR3
6 unique J



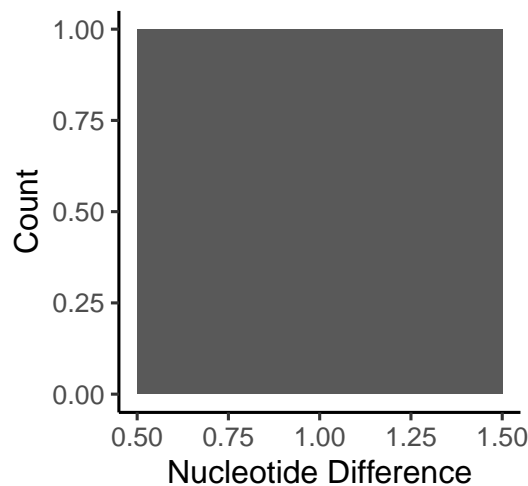
IGHV3-15*01

1421 sequences assigned
1262 (88.8%) exact matches, in which:
1173 unique CDR3
6 unique J



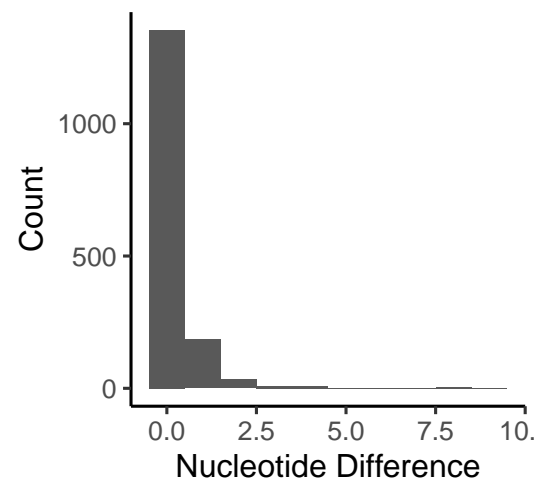
IGHV3-22*01

1 sequences assigned
No exact matches.



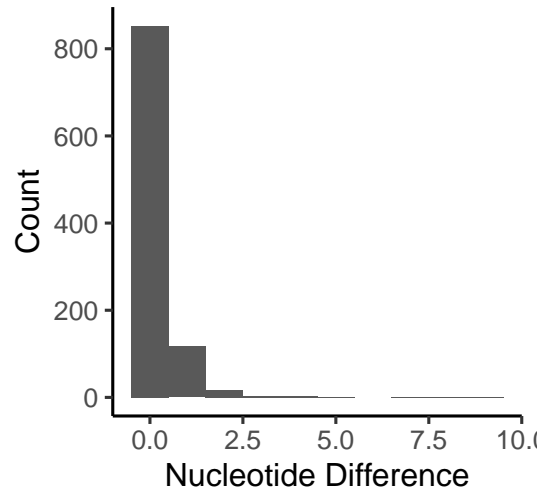
IGHV3-30*18

1616 sequences assigned
1354 (83.8%) exact matches, in which:
1279 unique CDR3
6 unique J



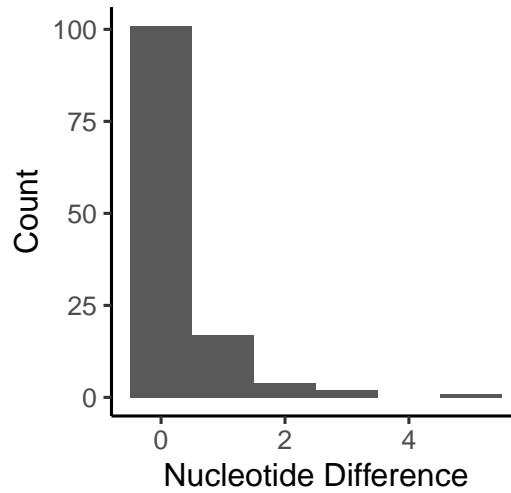
IGHV3–33*01

997 sequences assigned
853 (85.6%) exact matches, in which:
811 unique CDR3
6 unique J



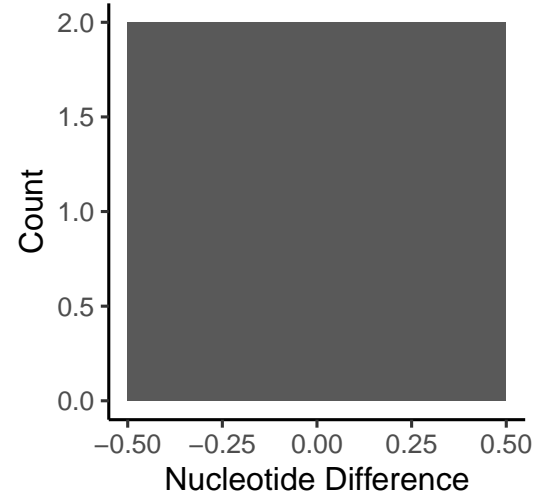
IGHV3–43*01

125 sequences assigned
101 (80.8%) exact matches, in which:
97 unique CDR3
6 unique J



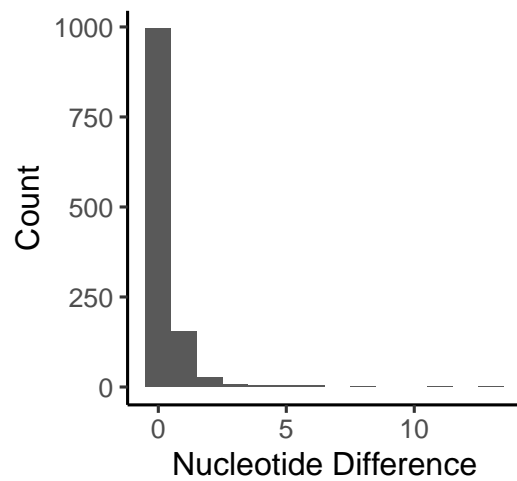
IGHV3–52*01

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



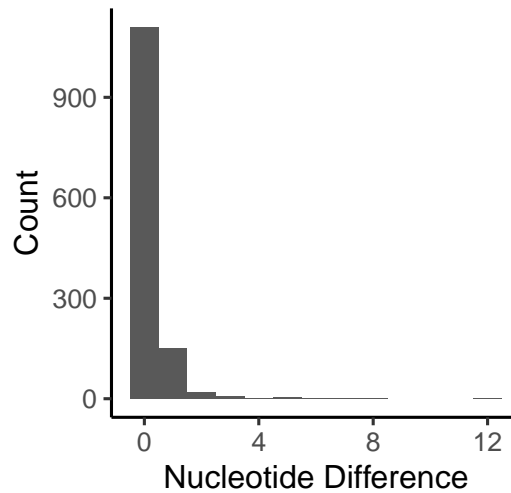
IGHV3–33*08

1199 sequences assigned
995 (83%) exact matches, in which:
948 unique CDR3
6 unique J



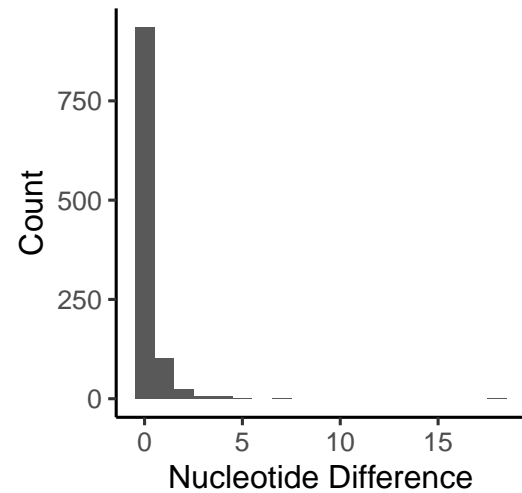
IGHV3–48*02

1300 sequences assigned
1110 (85.4%) exact matches, in which:
1054 unique CDR3
6 unique J



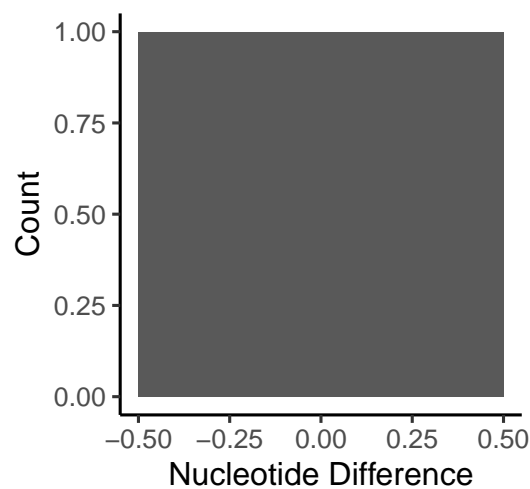
IGHV3–53*01

1079 sequences assigned
936 (86.7%) exact matches, in which:
893 unique CDR3
6 unique J



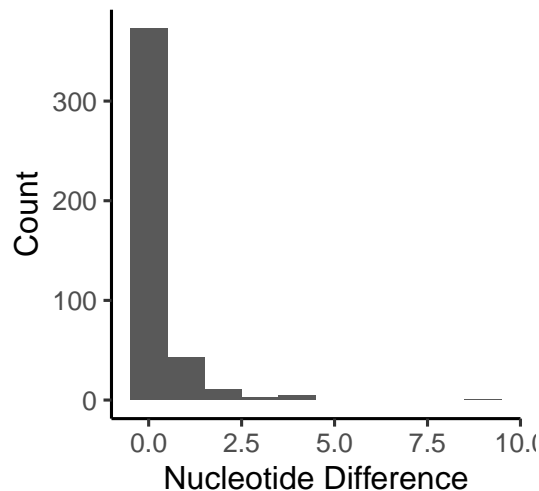
IGHV3–35*01

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



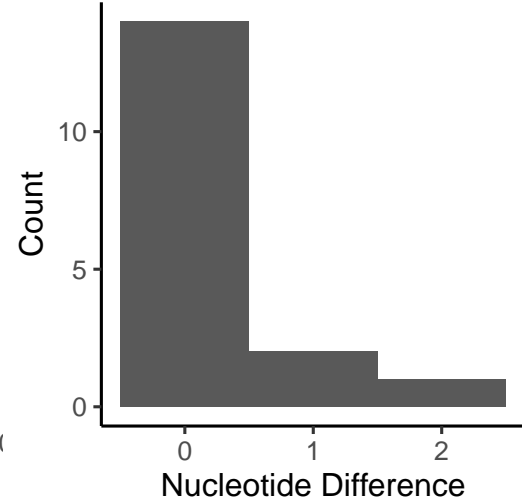
IGHV3–49*05

436 sequences assigned
373 (85.6%) exact matches, in which:
350 unique CDR3
6 unique J



IGHV3–64*02

17 sequences assigned
14 (82.4%) exact matches, in which:
14 unique CDR3
5 unique J



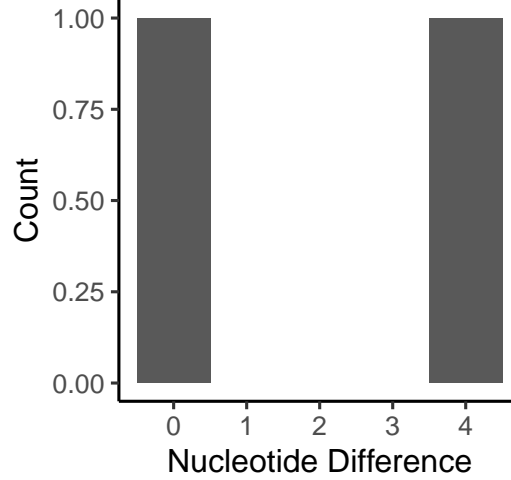
IGHV3-66*03

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



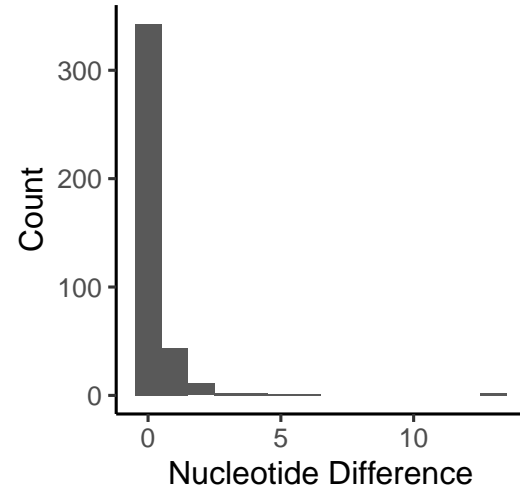
IGHV3-71*03

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



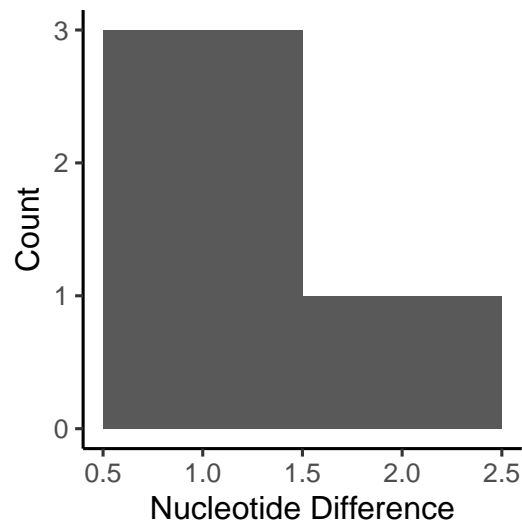
IGHV3-74*01

406 sequences assigned
343 (84.5%) exact matches, in which:
332 unique CDR3
5 unique J



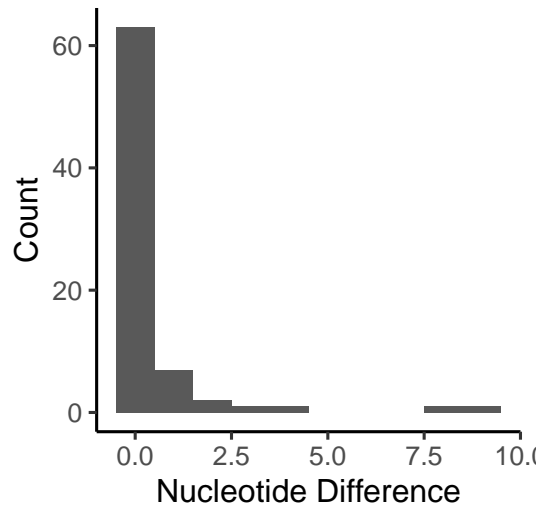
IGHV3-66*04

4 sequences assigned
No exact matches.



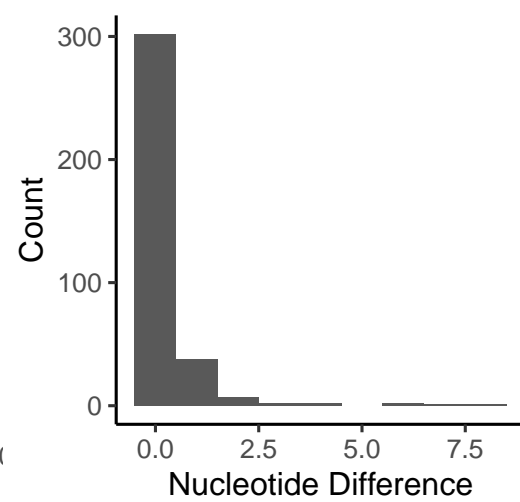
IGHV3-72*01

76 sequences assigned
63 (82.9%) exact matches, in which:
59 unique CDR3
6 unique J



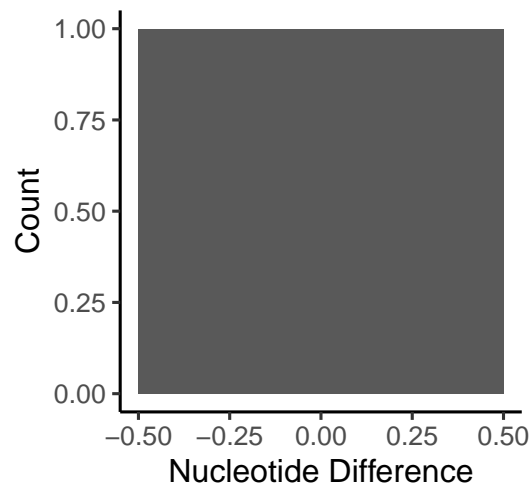
IGHV3-64D*06

355 sequences assigned
302 (85.1%) exact matches, in which:
279 unique CDR3
6 unique J



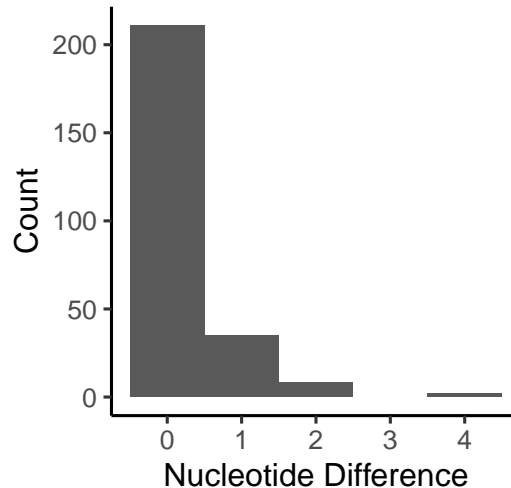
IGHV3-71*01

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



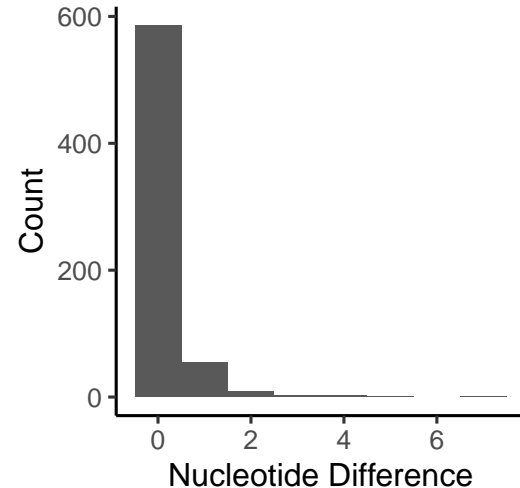
IGHV3-73*02

256 sequences assigned
211 (82.4%) exact matches, in which:
197 unique CDR3
4 unique J



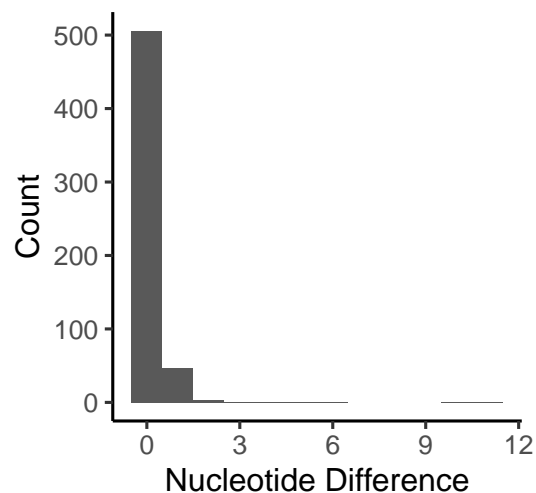
IGHV4-4*02

656 sequences assigned
586 (89.3%) exact matches, in which:
555 unique CDR3
6 unique J



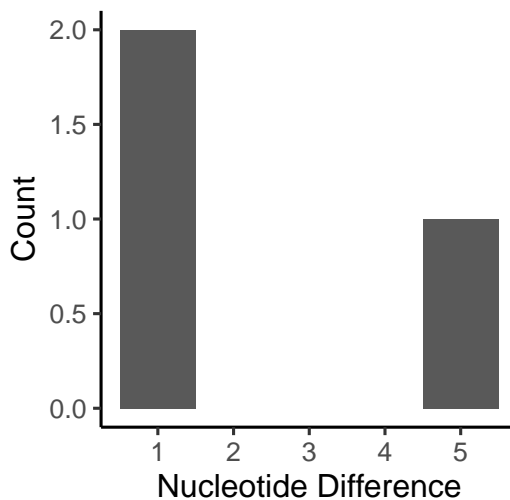
IGHV4-4*07

562 sequences assigned
506 (90%) exact matches, in which:
477 unique CDR3
6 unique J



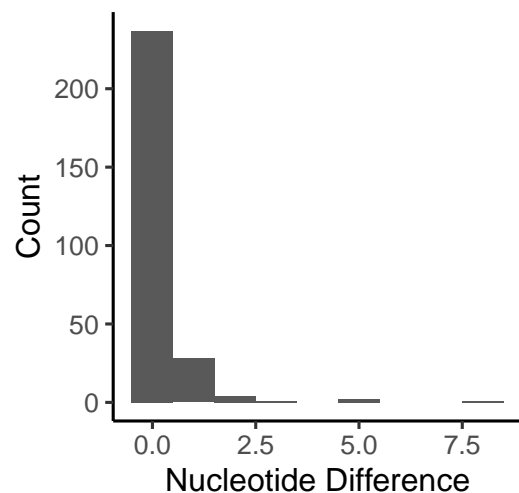
IGHV4-28*04

3 sequences assigned
No exact matches.



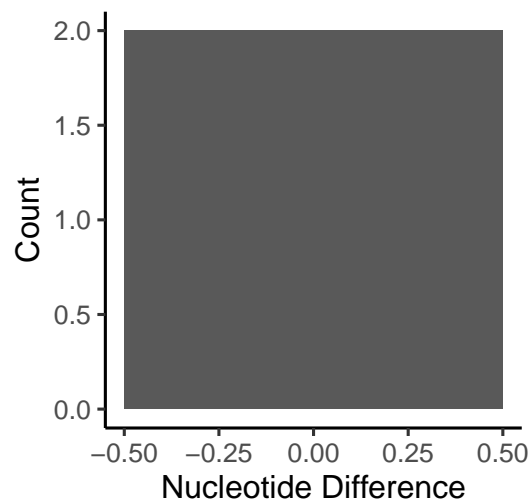
IGHV4-30-2*01

273 sequences assigned
237 (86.8%) exact matches, in which:
226 unique CDR3
6 unique J



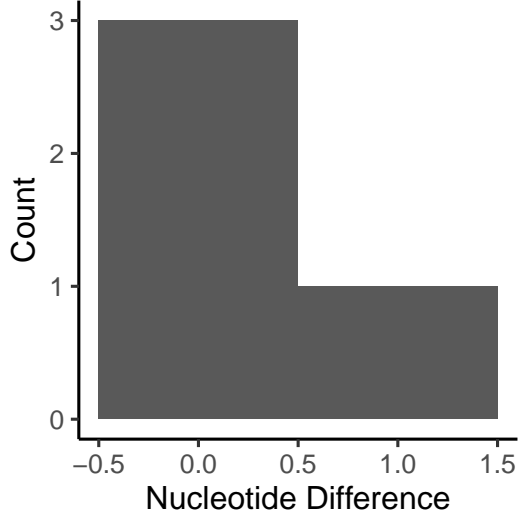
IGHV4-28*01

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



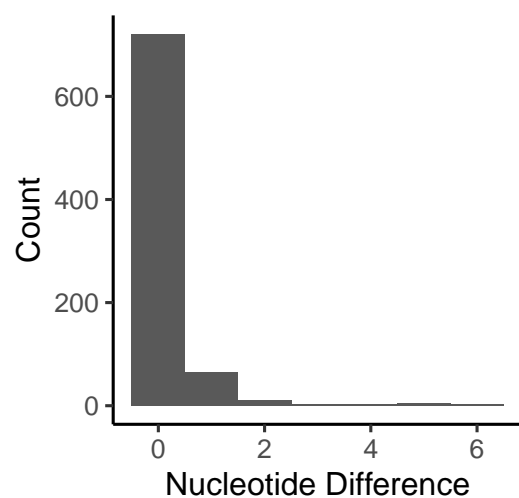
IGHV4-28*07

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



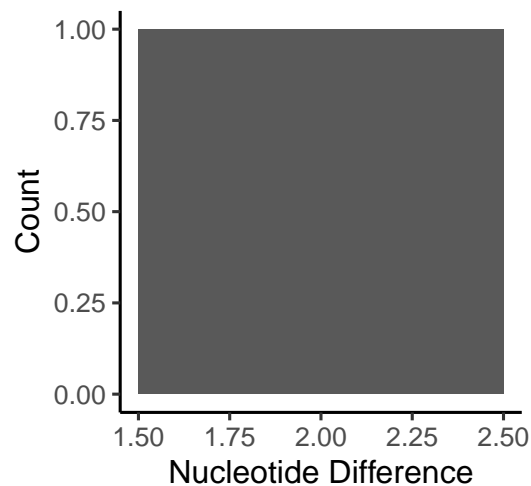
IGHV4-31*03

808 sequences assigned
721 (89.2%) exact matches, in which:
684 unique CDR3
6 unique J



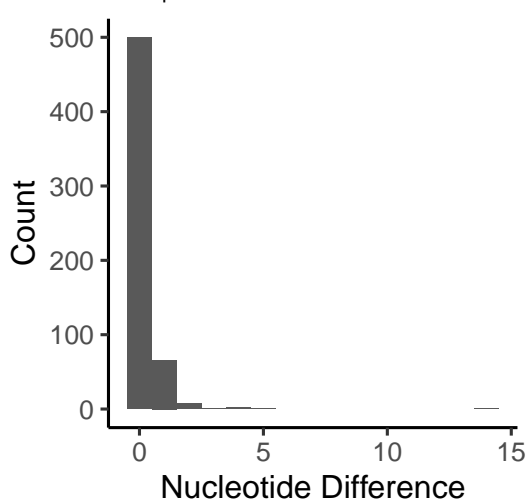
IGHV4-28*03

1 sequences assigned
No exact matches.



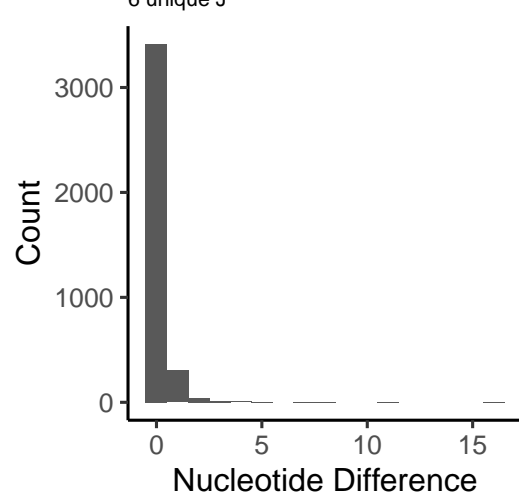
IGHV4-30-4*01

578 sequences assigned
500 (86.5%) exact matches, in which:
477 unique CDR3
6 unique J



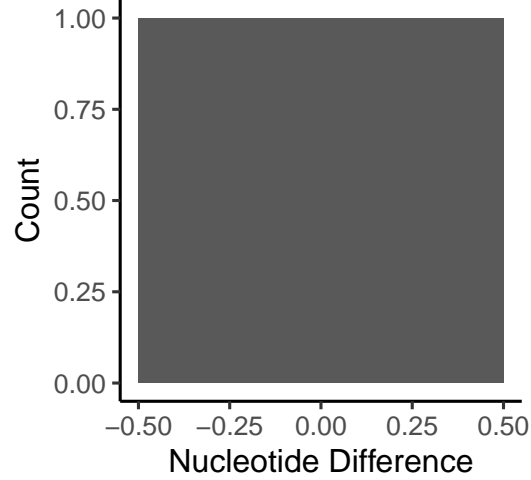
IGHV4-34*01

3794 sequences assigned
3414 (90%) exact matches, in which:
3158 unique CDR3
6 unique J



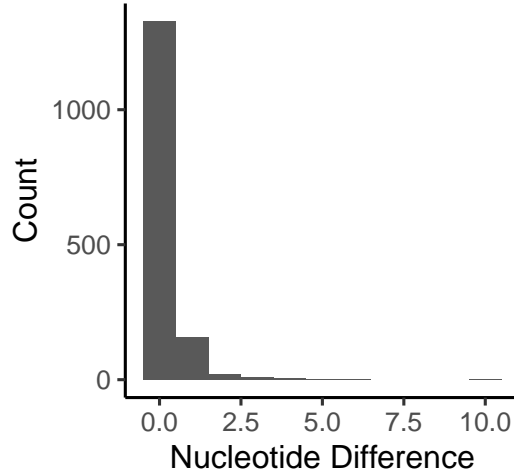
IGHV4-38-2*02

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



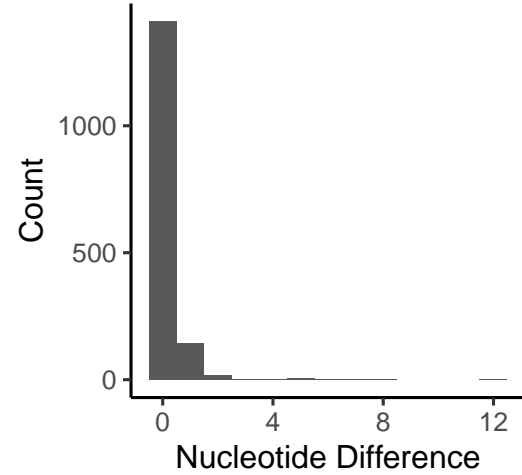
IGHV4-59*01

1524 sequences assigned
1327 (87.1%) exact matches, in which:
1285 unique CDR3
6 unique J



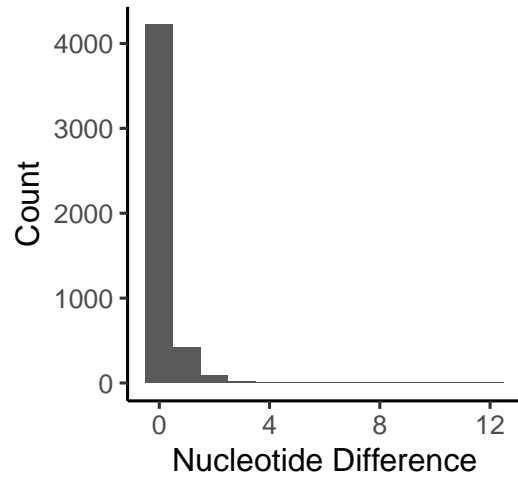
IGHV5-51*01

1591 sequences assigned
1411 (88.7%) exact matches, in which:
1340 unique CDR3
6 unique J



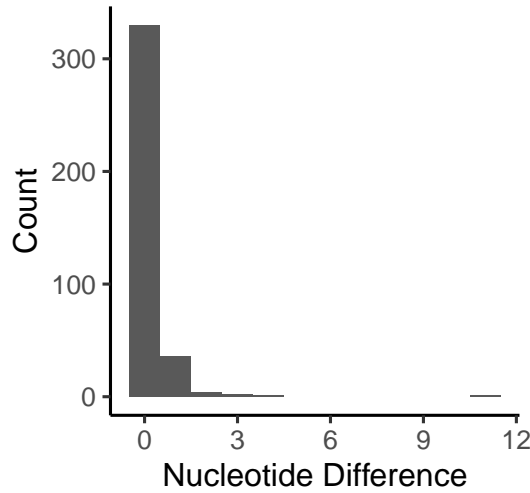
IGHV4-39*01

4792 sequences assigned
4221 (88.1%) exact matches, in which:
3888 unique CDR3
6 unique J



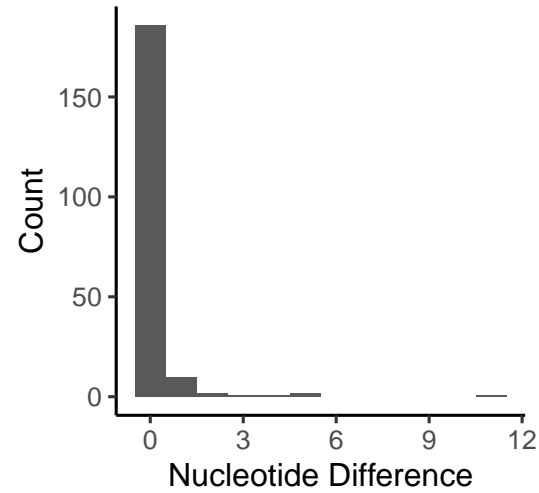
IGHV4-61*01

374 sequences assigned
330 (88.2%) exact matches, in which:
315 unique CDR3
6 unique J



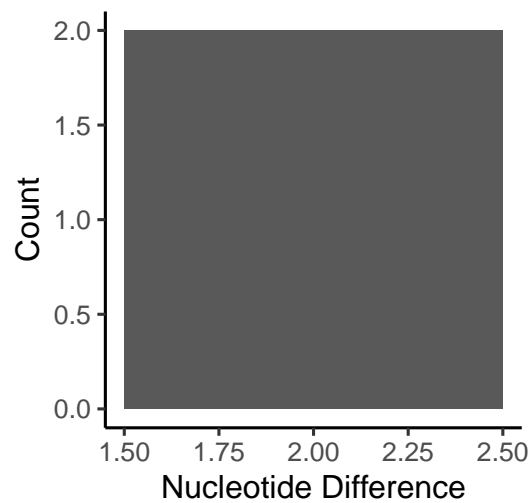
IGHV6-1*01

203 sequences assigned
186 (91.6%) exact matches, in which:
178 unique CDR3
6 unique J



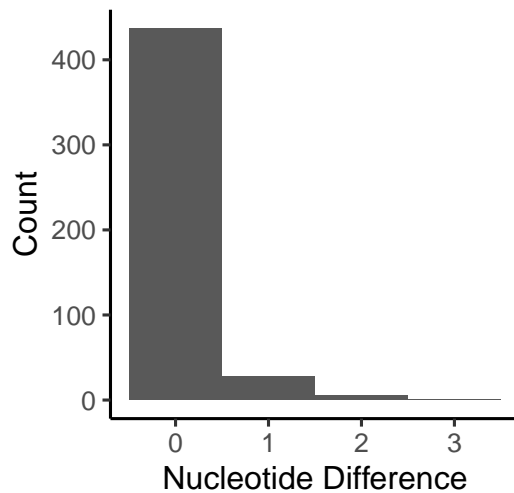
IGHV4-55*08

2 sequences assigned
No exact matches.



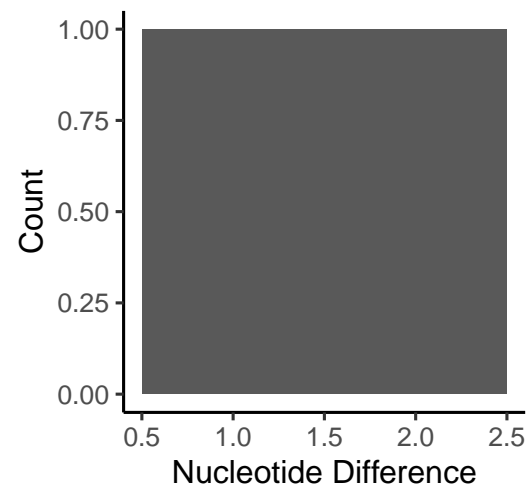
IGHV5-10-1*01

471 sequences assigned
437 (92.8%) exact matches, in which:
419 unique CDR3
6 unique J



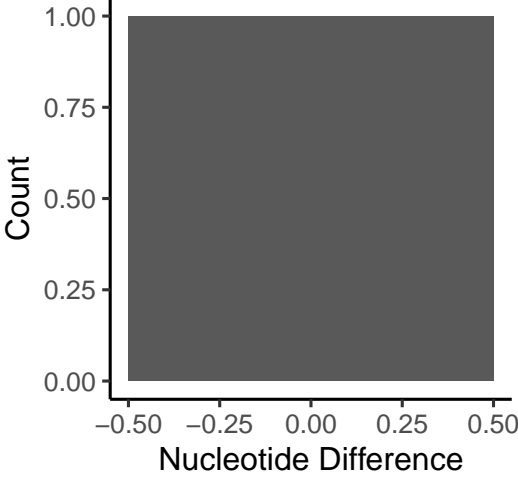
IGHV3/OR16-6*02

2 sequences assigned
No exact matches.



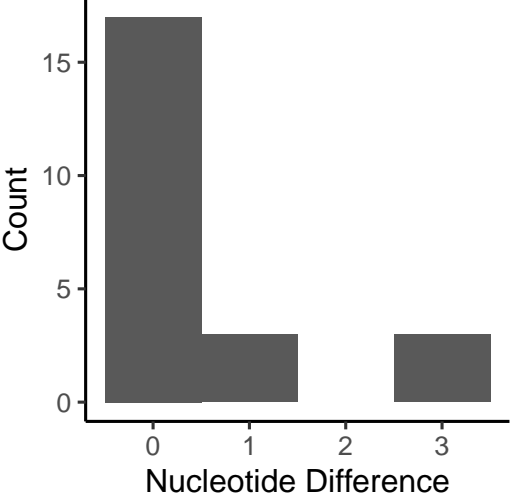
IGHV3/OR16-9*01

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



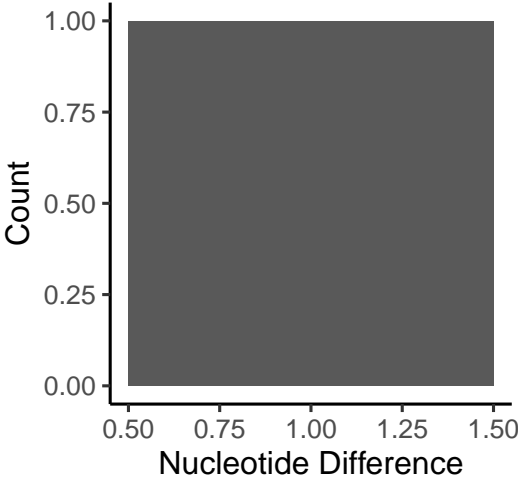
IGHV7-4-1*01

24 sequences assigned
17 (70.8%) exact matches, in which:
17 unique CDR3
4 unique J



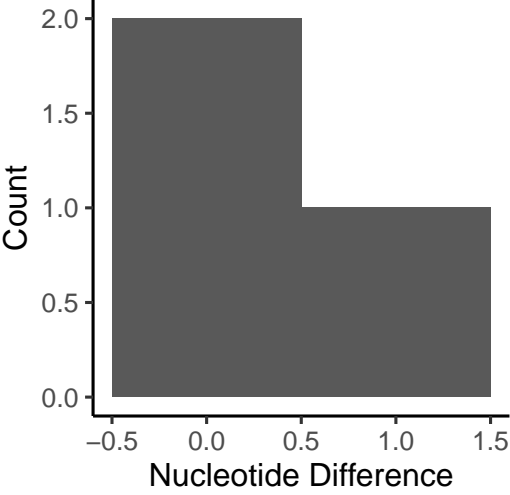
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



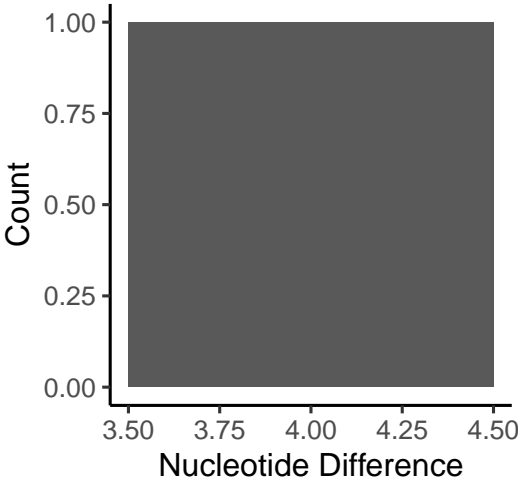
IGHV7-81*01

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



IGHV3/OR16-15*02

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.