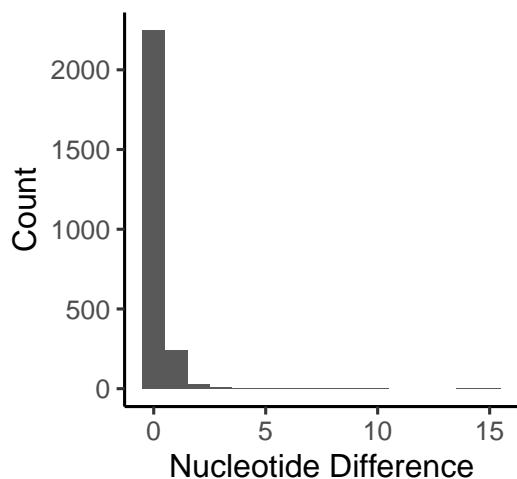


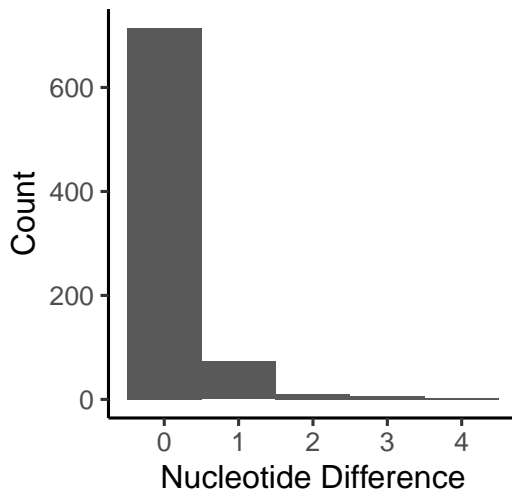
IGHV1-2*02

2543 sequences assigned
2247 (88.4%) exact matches, in which:
2128 unique CDR3
6 unique J



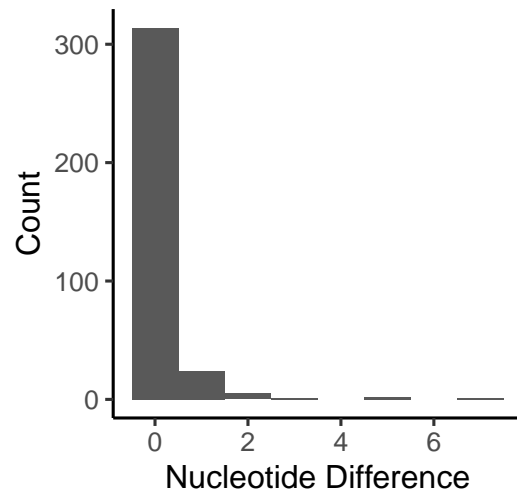
IGHV1-24*01

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



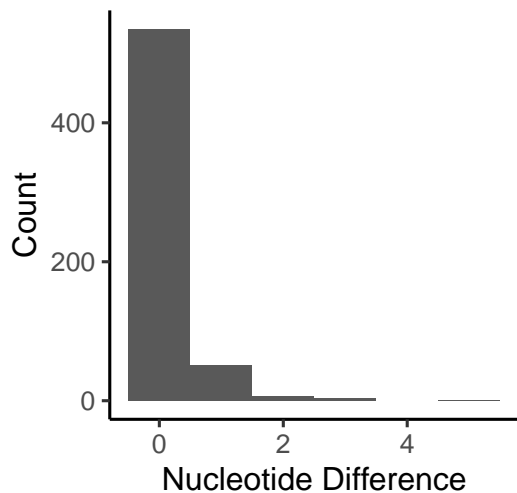
IGHV1-58*01

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



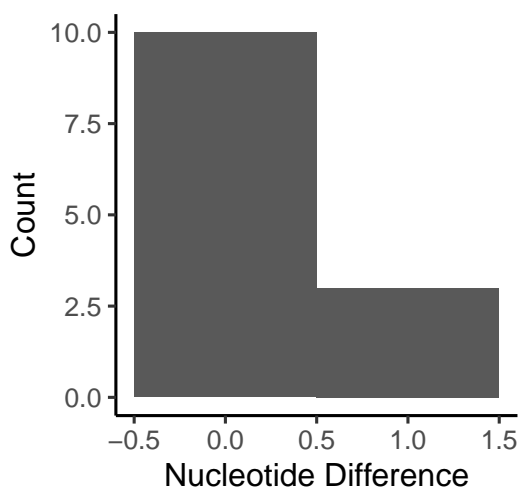
IGHV1-8*01

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



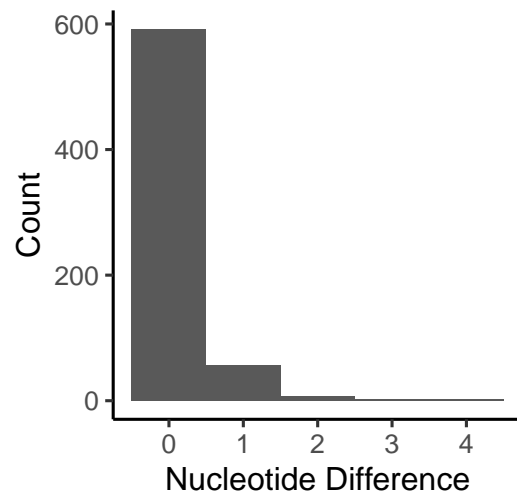
IGHV1-45*02

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



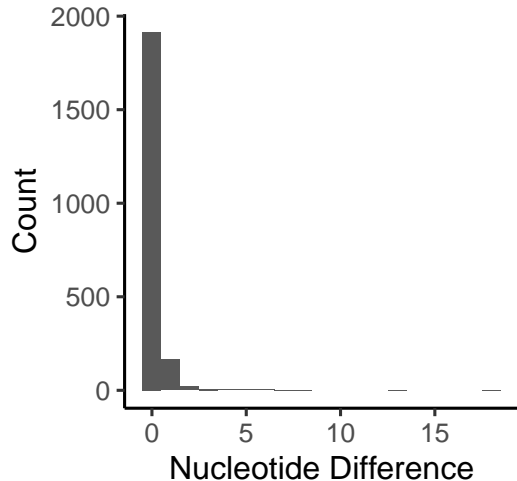
IGHV2-5*01

660 sequences assigned
592 (89.7%) exact matches, in which:
563 unique CDR3
6 unique J



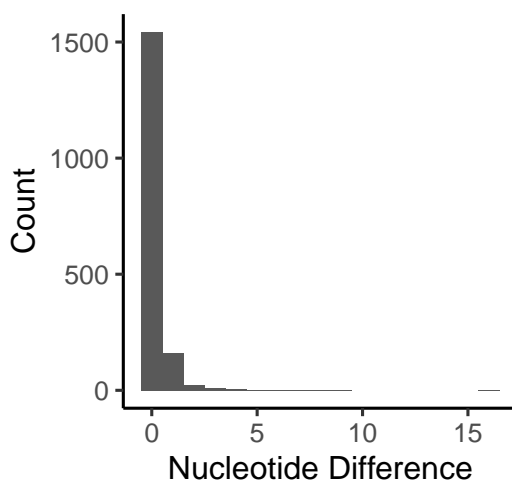
IGHV1-18*01

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



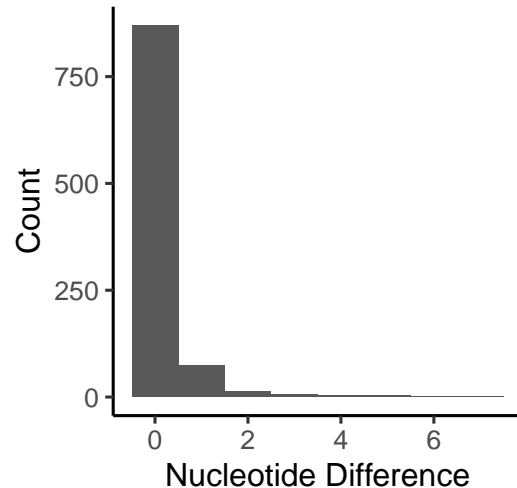
IGHV1-46*01

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



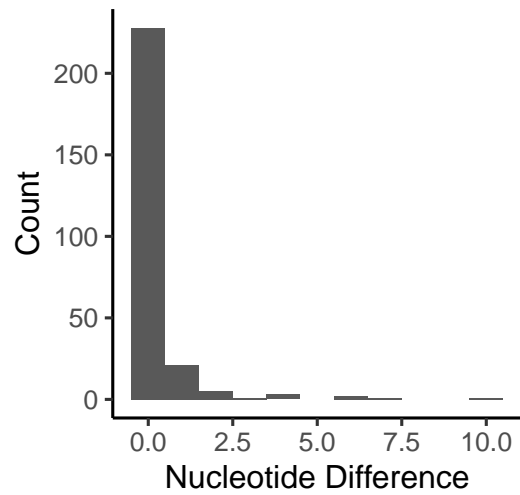
IGHV2-5*02

972 sequences assigned
870 (89.5%) exact matches, in which:
825 unique CDR3
6 unique J



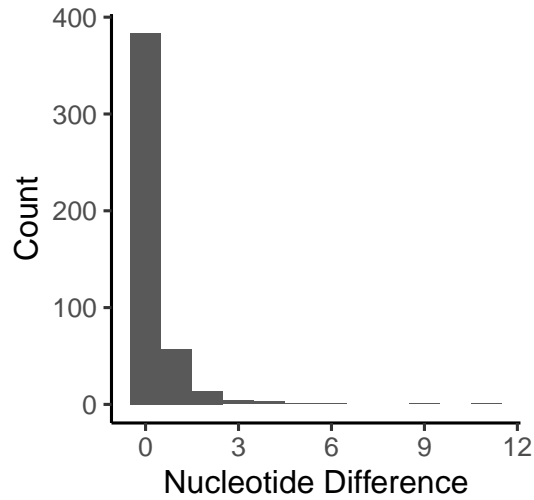
IGHV2-26*01

262 sequences assigned
228 (87%) exact matches, in which:
220 unique CDR3
5 unique J



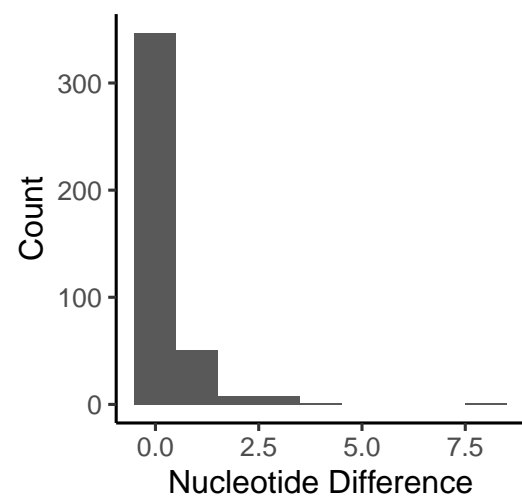
IGHV3-7*01

466 sequences assigned
384 (82.4%) exact matches, in which:
368 unique CDR3
6 unique J



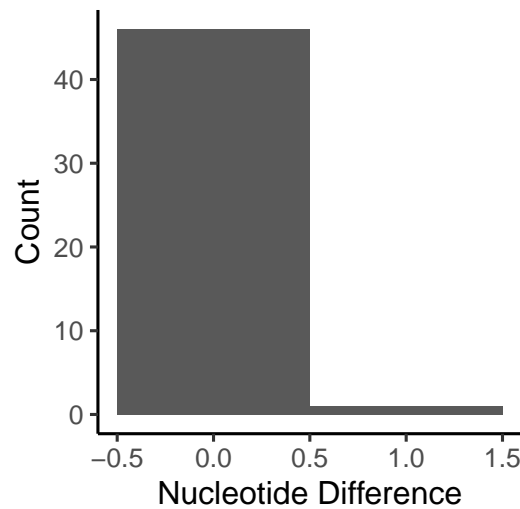
IGHV3-11*01

416 sequences assigned
347 (83.4%) exact matches, in which:
335 unique CDR3
5 unique J



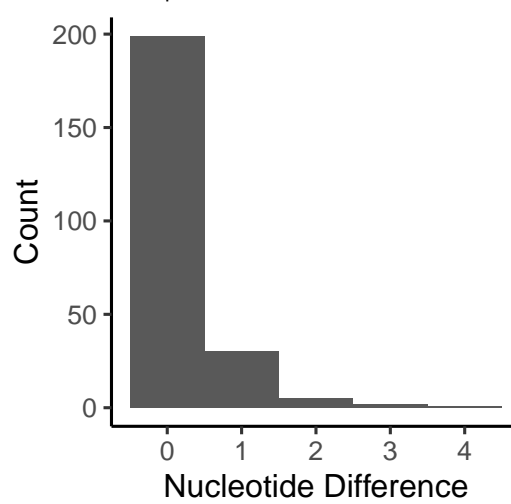
IGHV2-26*04

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



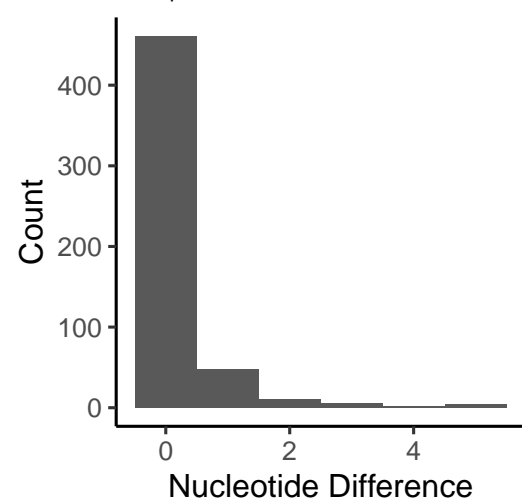
IGHV3-7*04

237 sequences assigned
199 (84%) exact matches, in which:
187 unique CDR3
6 unique J



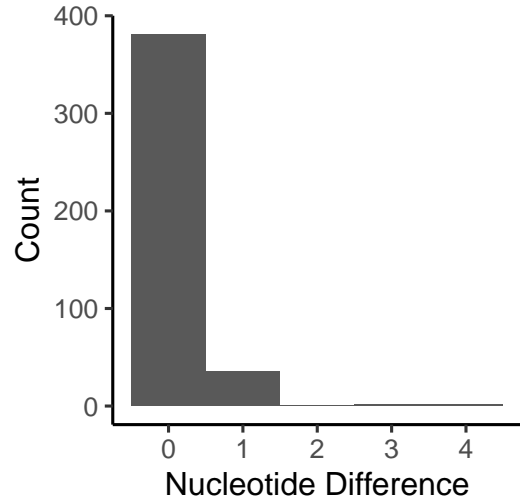
IGHV3-11*05

532 sequences assigned
461 (86.7%) exact matches, in which:
442 unique CDR3
6 unique J



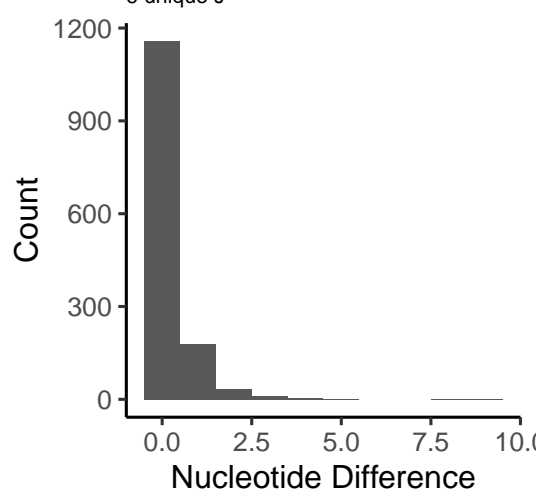
IGHV2-70*01

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



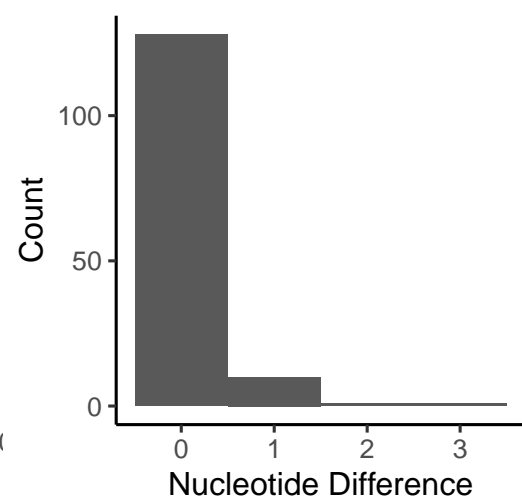
IGHV3-9*01

1392 sequences assigned
1158 (83.2%) exact matches, in which:
1082 unique CDR3
6 unique J



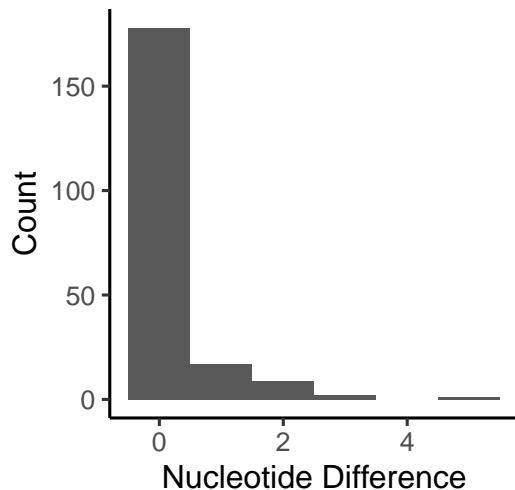
IGHV3-13*01

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



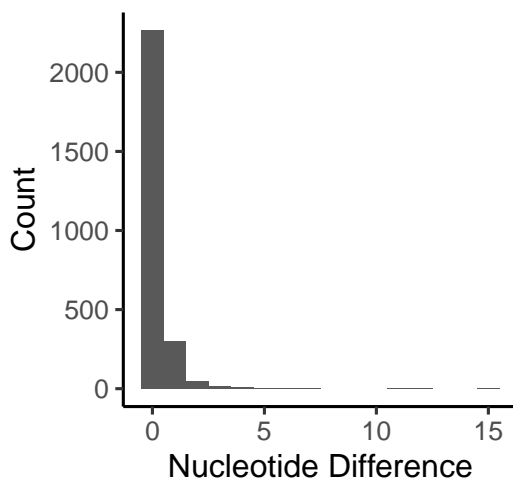
IGHV3–13*04

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



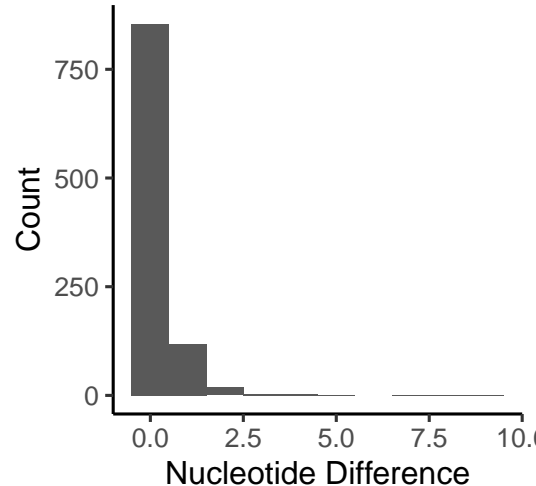
IGHV3–21*01

2653 sequences assigned
2265 (85.4%) exact matches, in which:
2134 unique CDR3
6 unique J



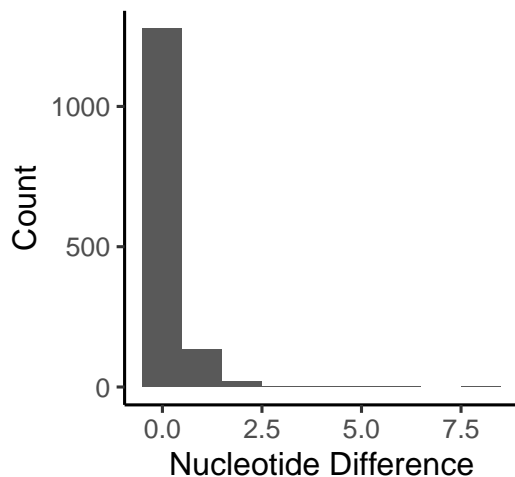
IGHV3–33*01

1001 sequences assigned
855 (85.4%) exact matches, in which:
813 unique CDR3
6 unique J



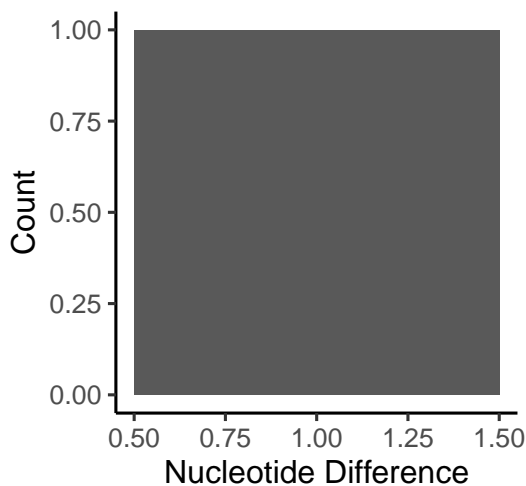
IGHV3–15*01

1439 sequences assigned
1277 (88.7%) exact matches, in which:
1188 unique CDR3
6 unique J



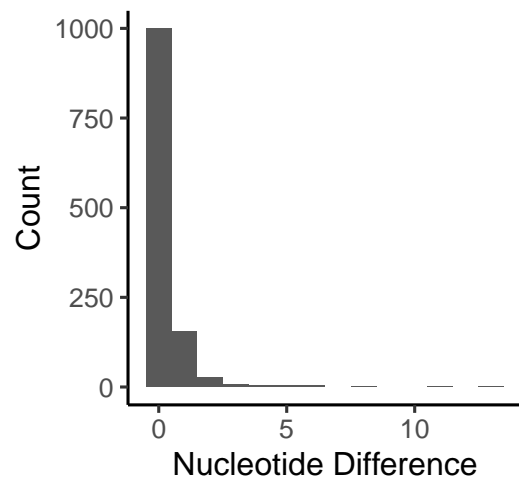
IGHV3–22*01

1 sequences assigned
No exact matches.



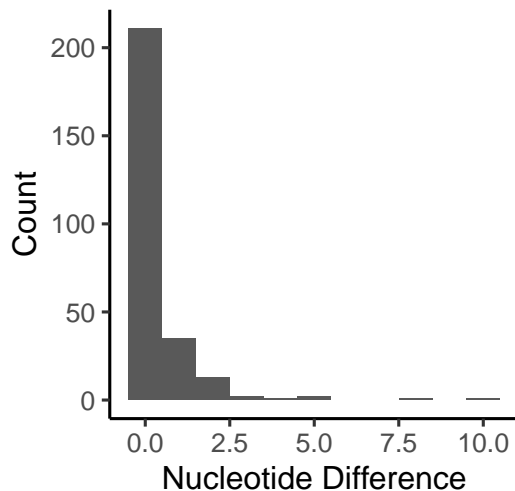
IGHV3–33*08

1203 sequences assigned
999 (83%) exact matches, in which:
951 unique CDR3
6 unique J



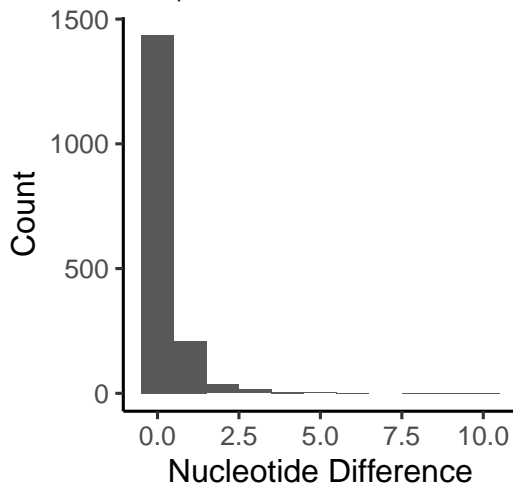
IGHV3–20*04

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



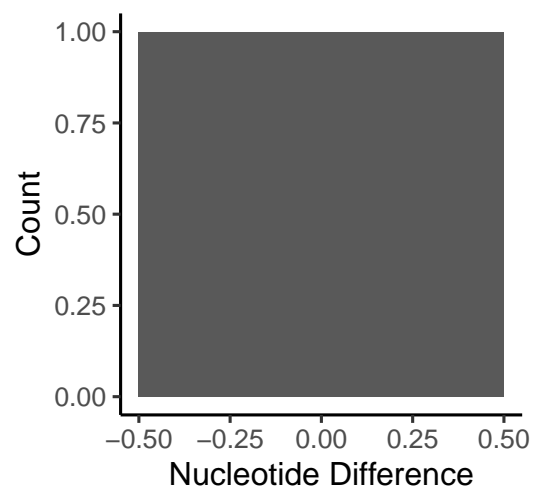
IGHV3–30–3*01

1708 sequences assigned
1436 (84.1%) exact matches, in which:
1354 unique CDR3
6 unique J



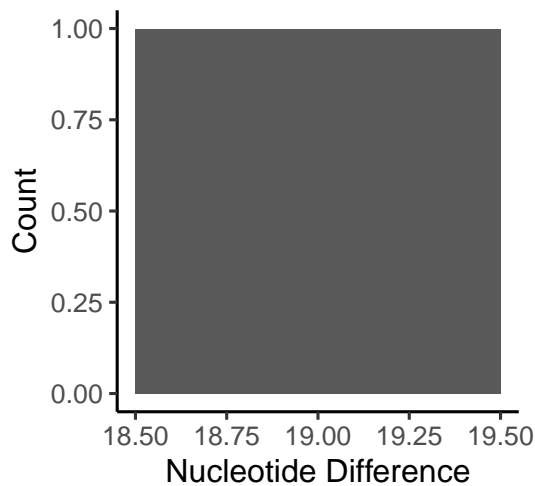
IGHV3–35*01

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



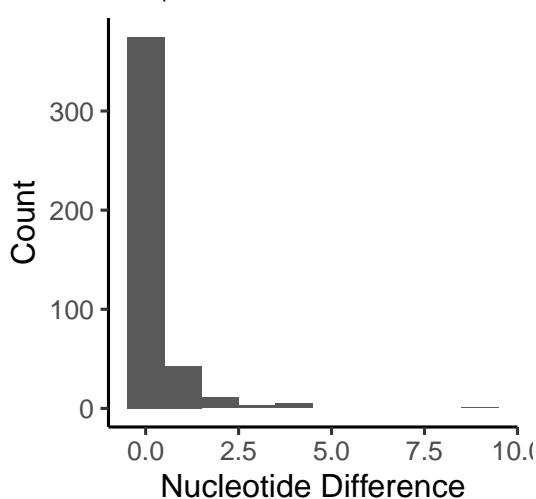
IGHV3-41*02

1 sequences assigned
No exact matches.



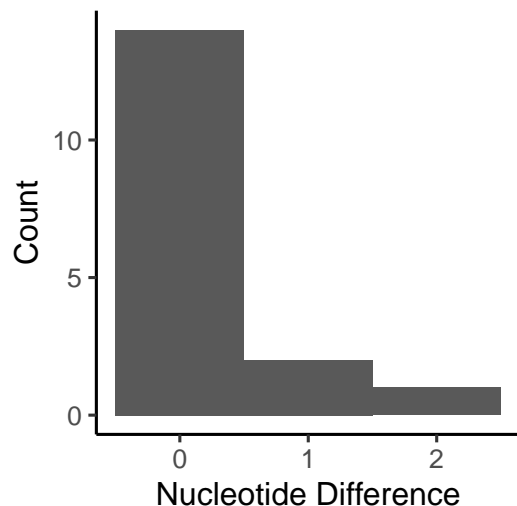
IGHV3-49*05

438 sequences assigned
375 (85.6%) exact matches, in which:
351 unique CDR3
6 unique J



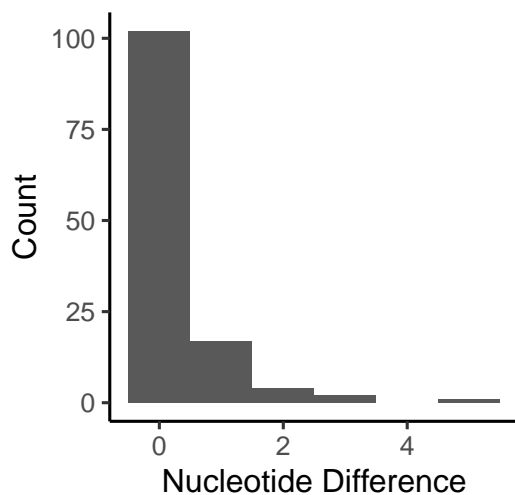
IGHV3-64*02

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



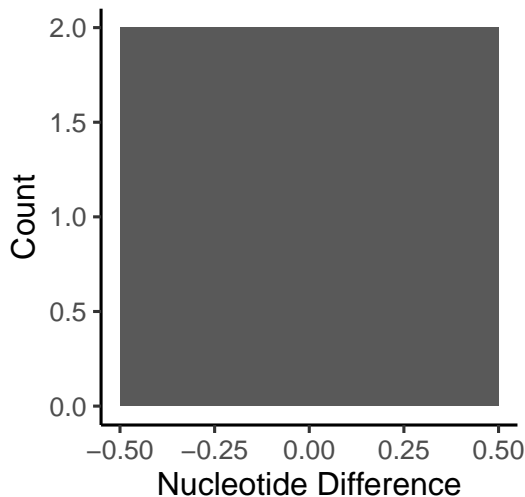
IGHV3-43*01

126 sequences assigned
102 (81%) exact matches, in which:
98 unique CDR3
6 unique J



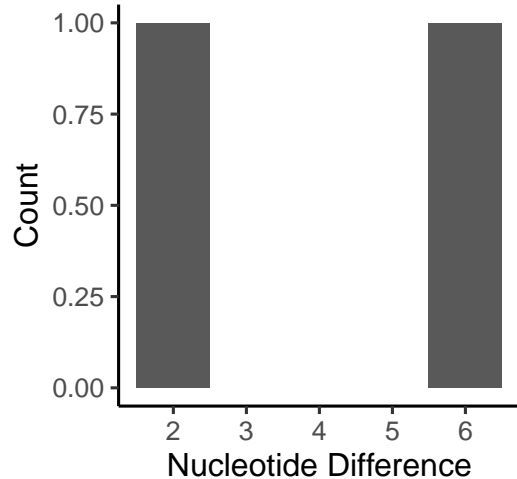
IGHV3-52*01

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



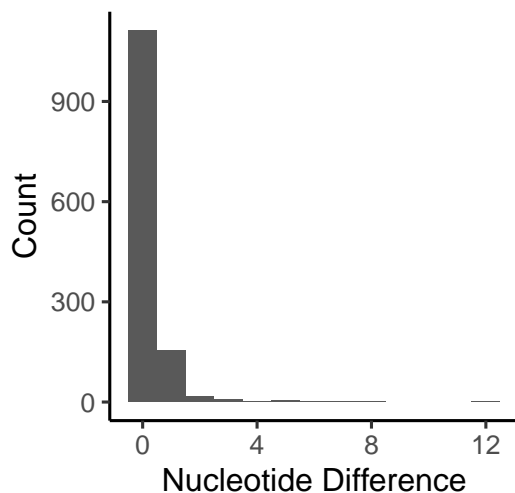
IGHV3-64*04

2 sequences assigned
No exact matches.



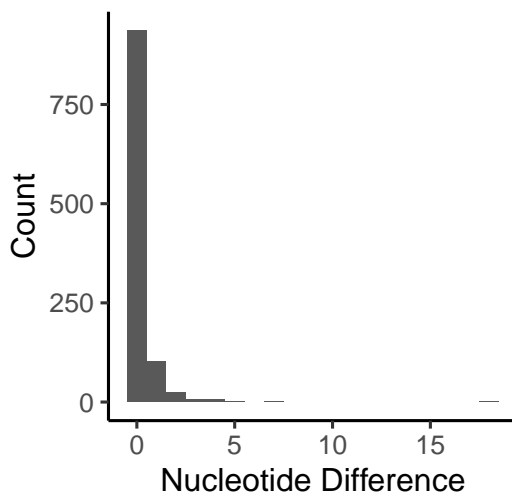
IGHV3-48*02

1304 sequences assigned
1113 (85.4%) exact matches, in which:
1057 unique CDR3
6 unique J



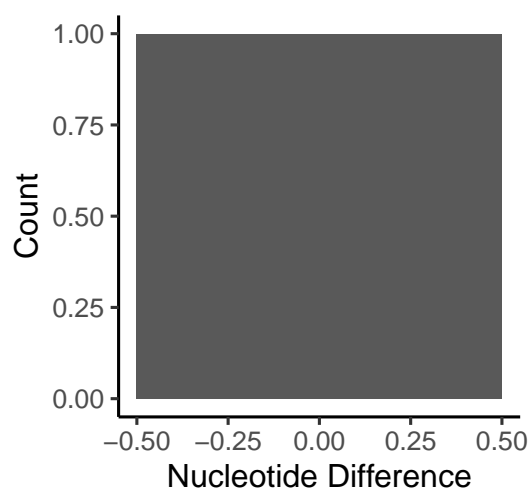
IGHV3-53*01

1080 sequences assigned
937 (86.8%) exact matches, in which:
894 unique CDR3
6 unique J



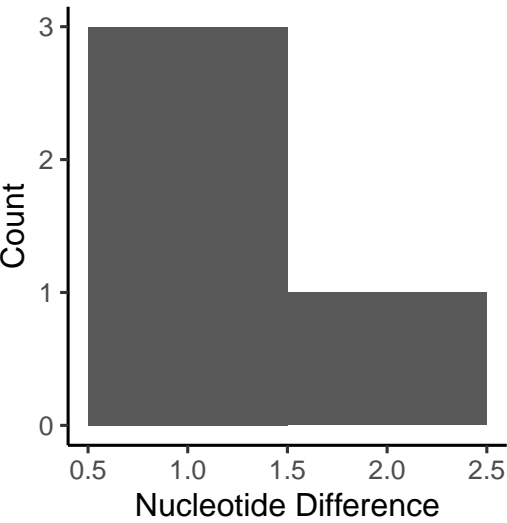
IGHV3-66*03

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



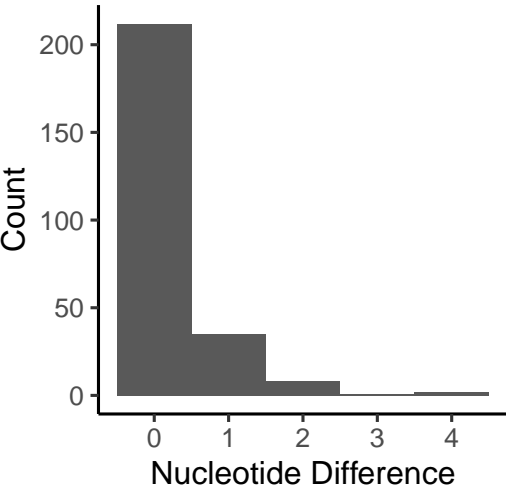
IGHV3-66*04

4 sequences assigned
No exact matches.



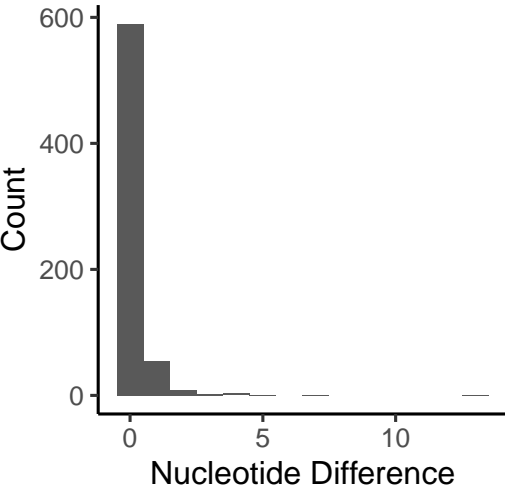
IGHV3-73*02

258 sequences assigned
212 (82.2%) exact matches, in which:
198 unique CDR3
4 unique J



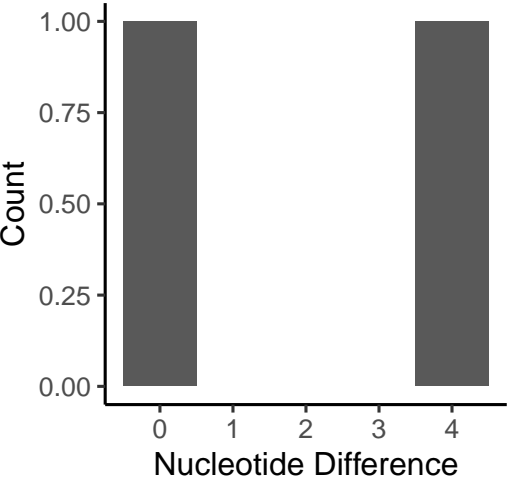
IGHV4-4*02

661 sequences assigned
590 (89.3%) exact matches, in which:
559 unique CDR3
6 unique J



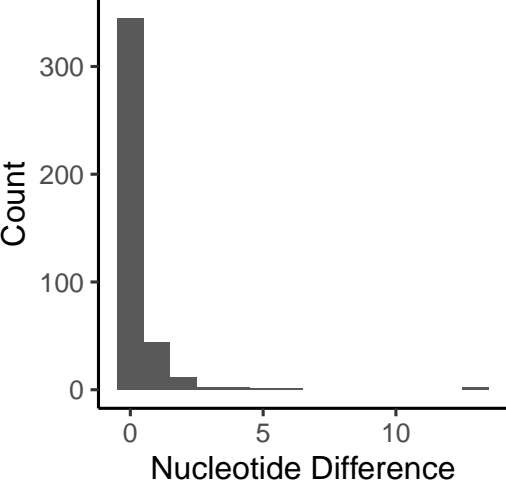
IGHV3-71*03

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



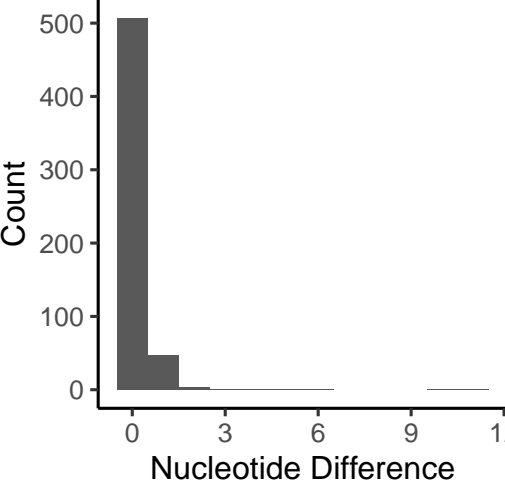
IGHV3-74*01

409 sequences assigned
345 (84.4%) exact matches, in which:
333 unique CDR3
5 unique J



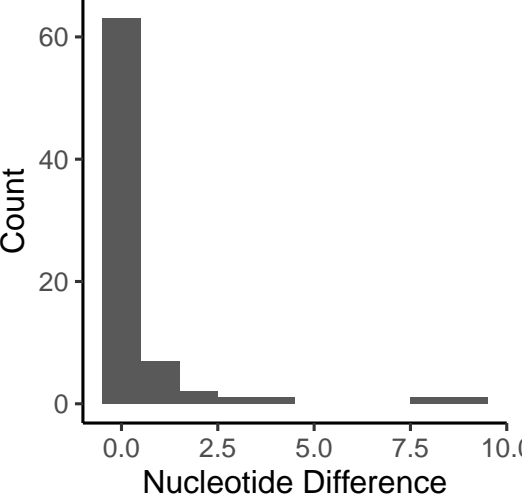
IGHV4-4*07

563 sequences assigned
507 (90.1%) exact matches, in which:
478 unique CDR3
6 unique J



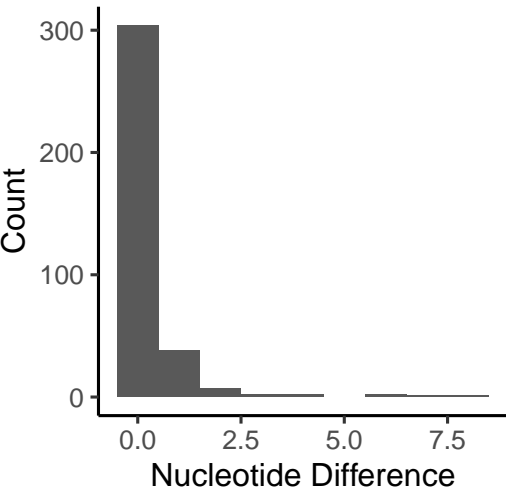
IGHV3-72*01

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



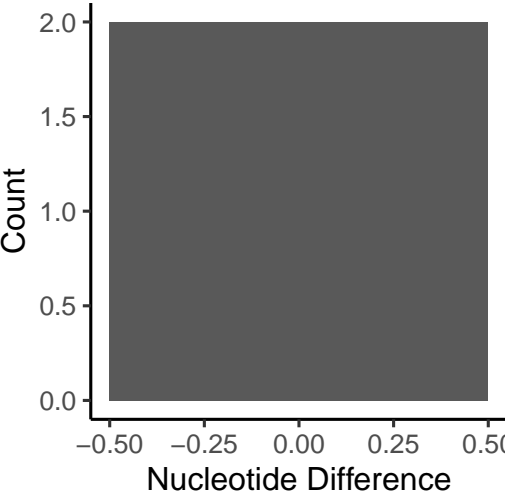
IGHV3-64D*06

357 sequences assigned
304 (85.2%) exact matches, in which:
281 unique CDR3
6 unique J



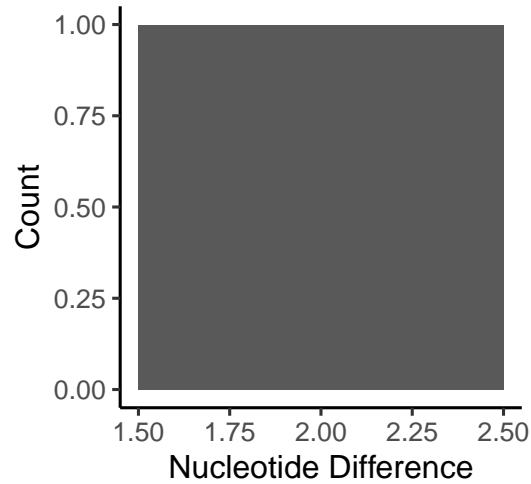
IGHV4-28*01

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



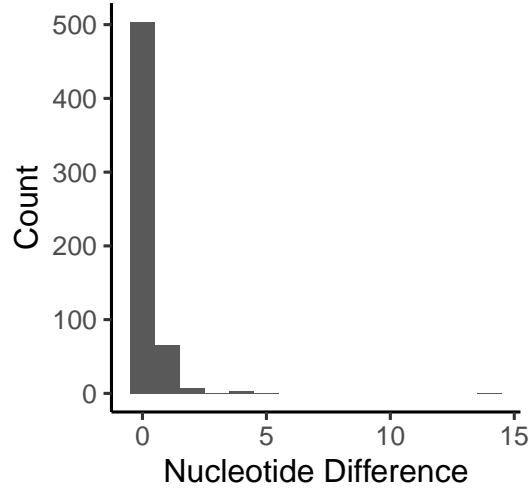
IGHV4-28*03

1 sequences assigned
No exact matches.



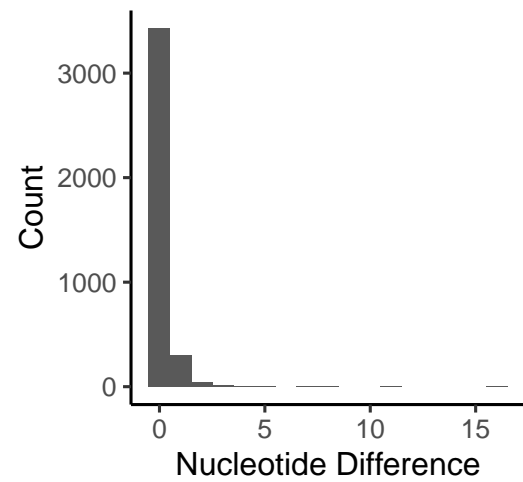
IGHV4-30-4*01

583 sequences assigned
504 (86.4%) exact matches, in which:
480 unique CDR3
6 unique J



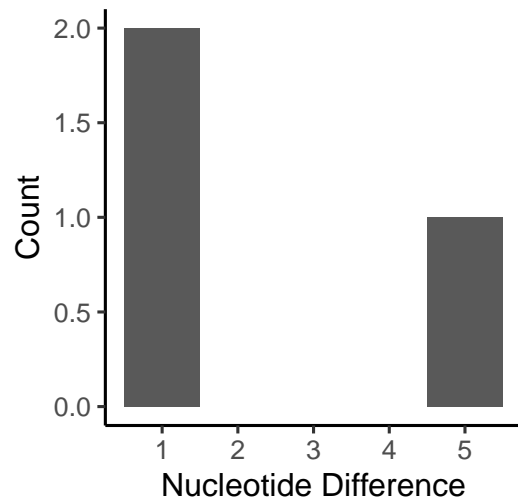
IGHV4-34*01

3813 sequences assigned
3428 (89.9%) exact matches, in which:
3171 unique CDR3
6 unique J



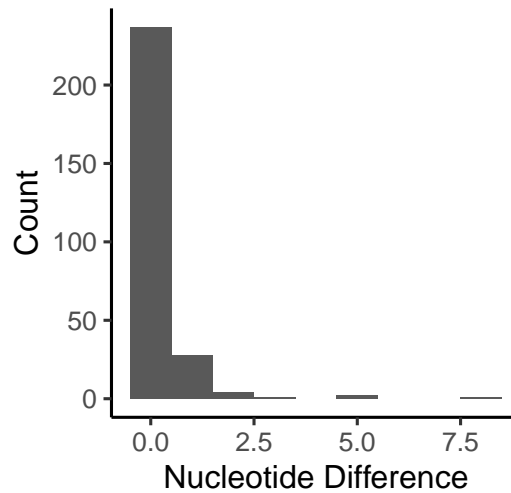
IGHV4-28*04

3 sequences assigned
No exact matches.



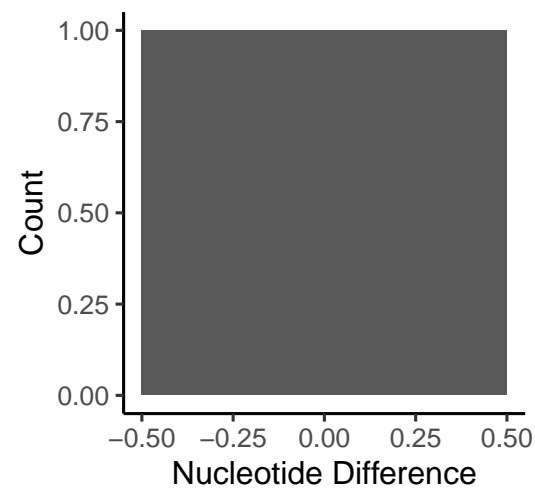
IGHV4-30-2*01

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



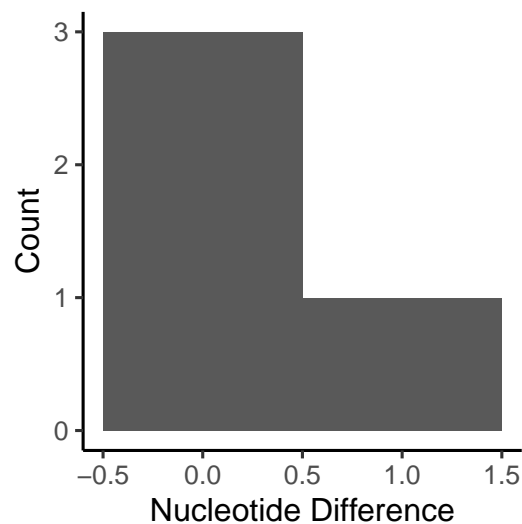
IGHV4-38-2*02

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



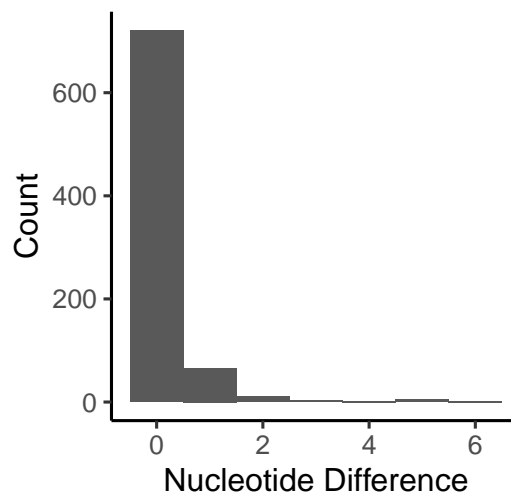
IGHV4-28*07

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



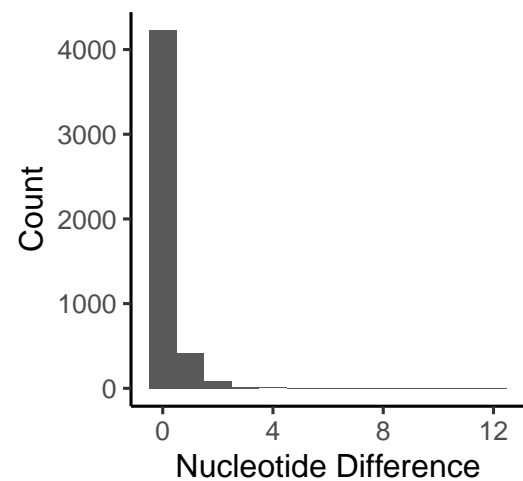
IGHV4-31*03

809 sequences assigned
721 (89.1%) exact matches, in which:
684 unique CDR3
6 unique J



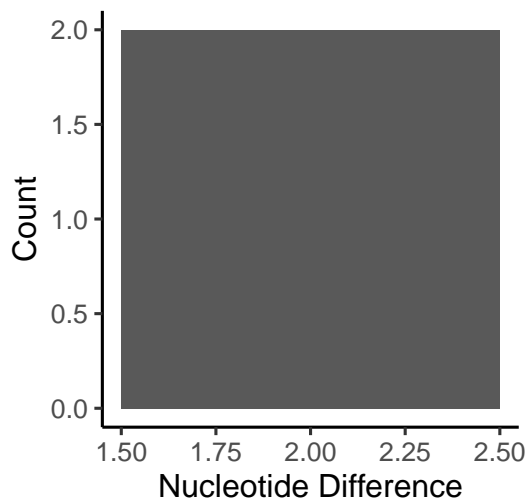
IGHV4-39*01

4803 sequences assigned
4230 (88.1%) exact matches, in which:
3895 unique CDR3
6 unique J



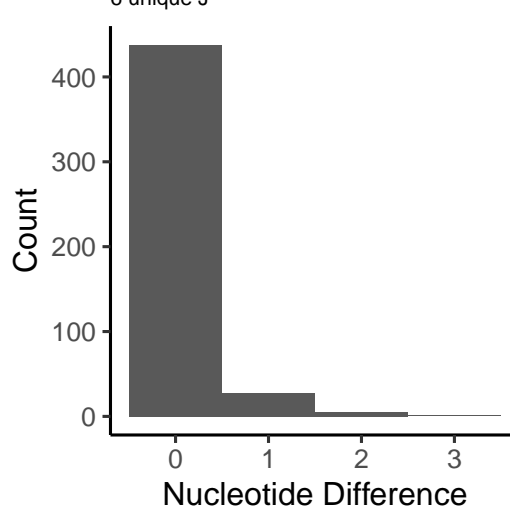
IGHV4–55*08

2 sequences assigned
No exact matches.



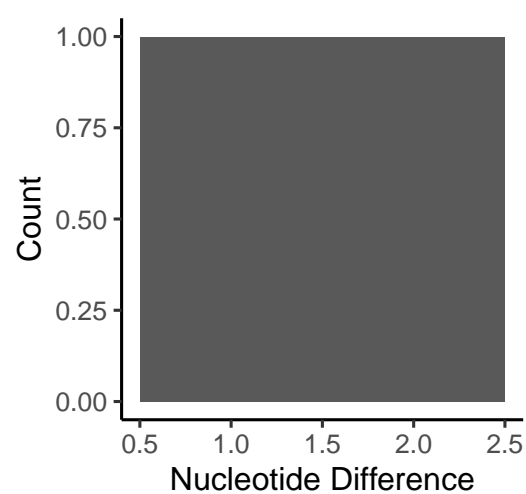
IGHV5–10–1*01

472 sequences assigned
438 (92.8%) exact matches, in which:
420 unique CDR3
6 unique J



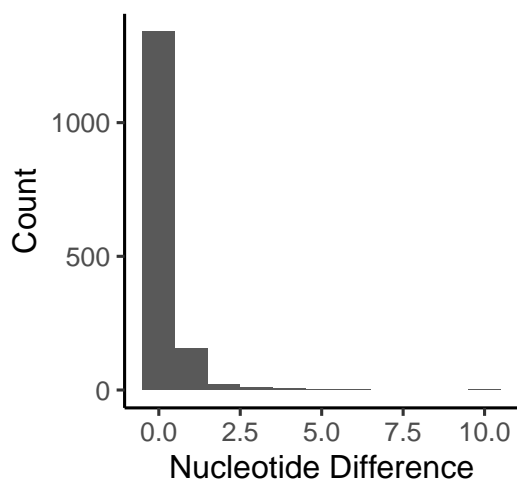
IGHV3/OR16–6*02

2 sequences assigned
No exact matches.



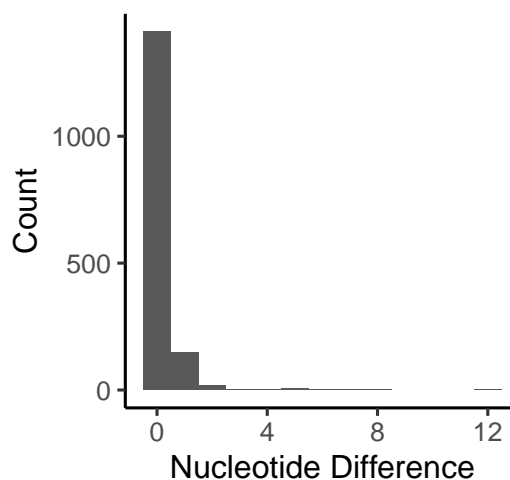
IGHV4–59*01

1538 sequences assigned
1340 (87.1%) exact matches, in which:
1296 unique CDR3
6 unique J



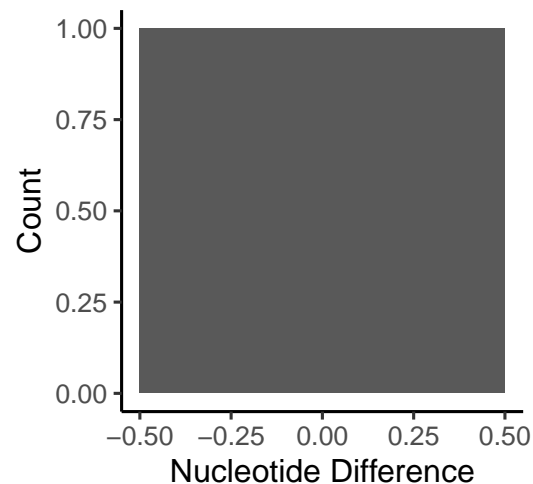
IGHV5–51*01

1593 sequences assigned
1412 (88.6%) exact matches, in which:
1341 unique CDR3
6 unique J



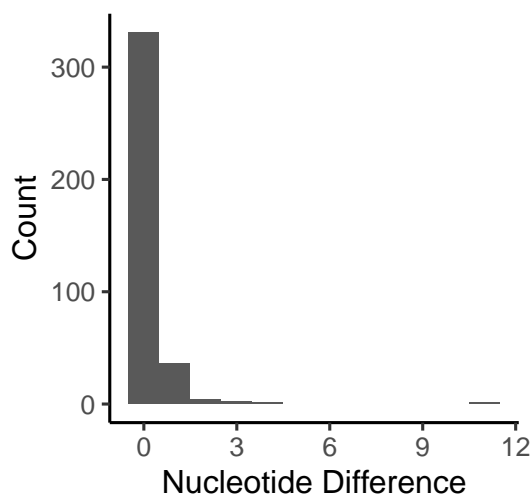
IGHV3/OR16–9*01

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



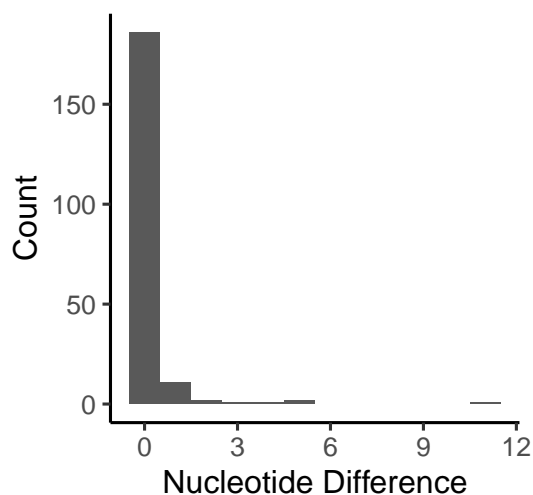
IGHV4–61*01

375 sequences assigned
331 (88.3%) exact matches, in which:
316 unique CDR3
6 unique J



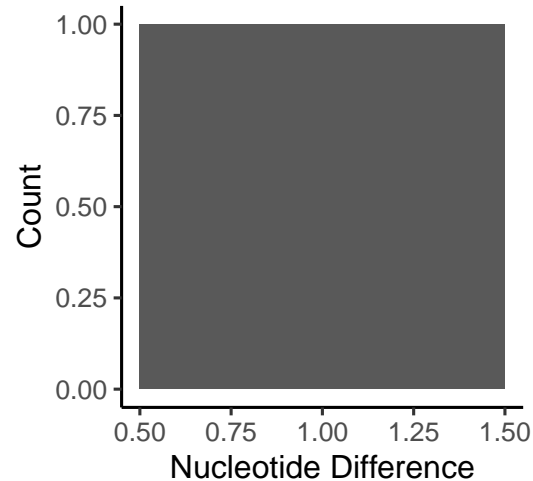
IGHV6–1*01

204 sequences assigned
186 (91.2%) exact matches, in which:
178 unique CDR3
6 unique J



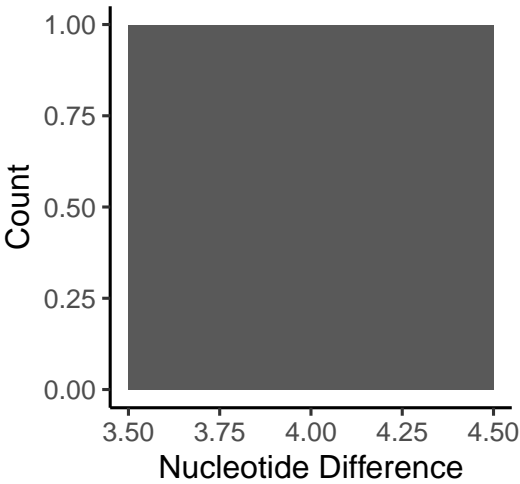
IGHV3/OR16–12*01

1 sequences assigned
No exact matches.



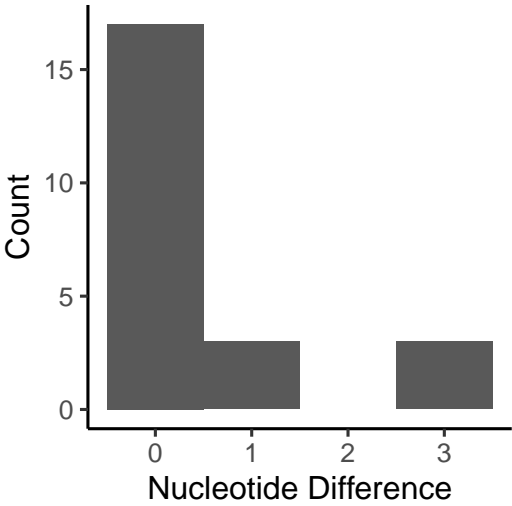
IGHV3/OR16-15*02

1 sequences assigned
No exact matches.



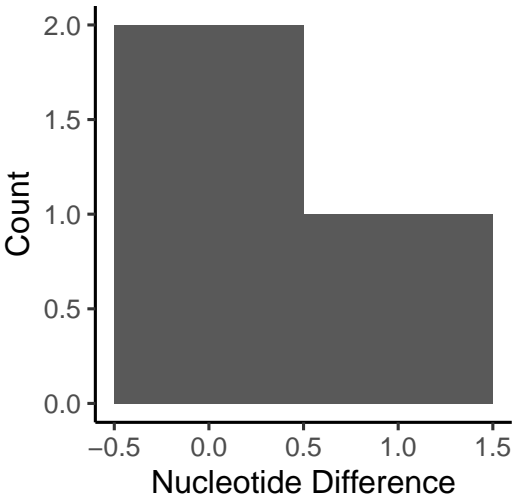
IGHV7-4-1*01

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



IGHV7-81*01

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





Warning – no inferred sequences found.