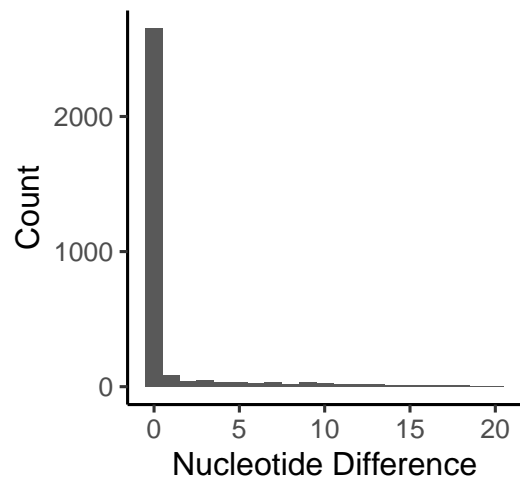


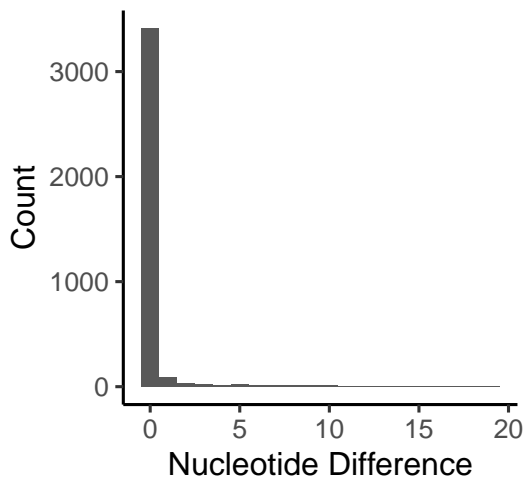
IGHV1-2*02

3161 sequences assigned
2652 (83.9%) exact matches, in which:
2638 unique CDR3
6 unique J



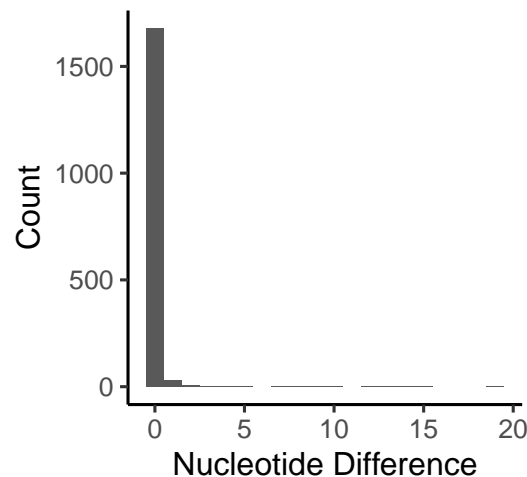
IGHV1-8*01

3705 sequences assigned
3411 (92.1%) exact matches, in which:
3389 unique CDR3
6 unique J



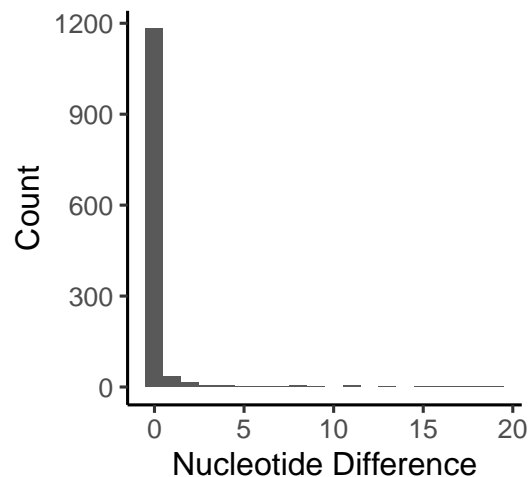
IGHV1-24*01

1740 sequences assigned
1678 (96.4%) exact matches, in which:
1674 unique CDR3
6 unique J



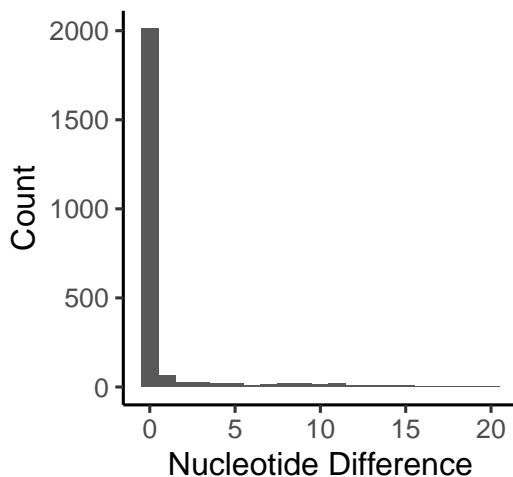
IGHV1-2*04

1274 sequences assigned
1182 (92.8%) exact matches, in which:
1181 unique CDR3
6 unique J



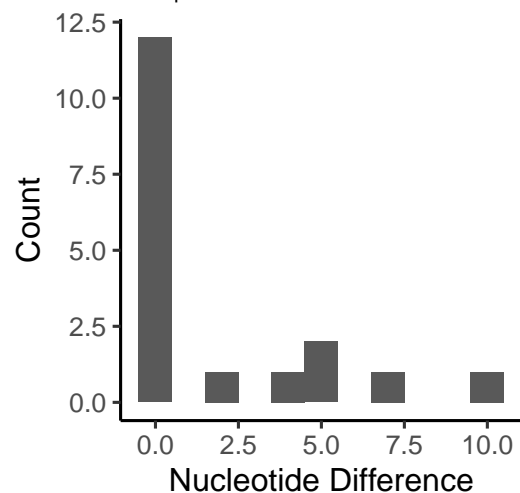
IGHV1-18*01

2320 sequences assigned
2011 (86.7%) exact matches, in which:
2008 unique CDR3
6 unique J



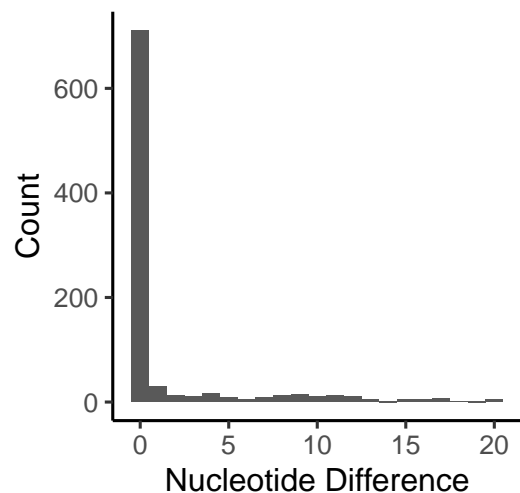
IGHV1-45*02

18 sequences assigned
12 (66.7%) exact matches, in which:
12 unique CDR3
3 unique J



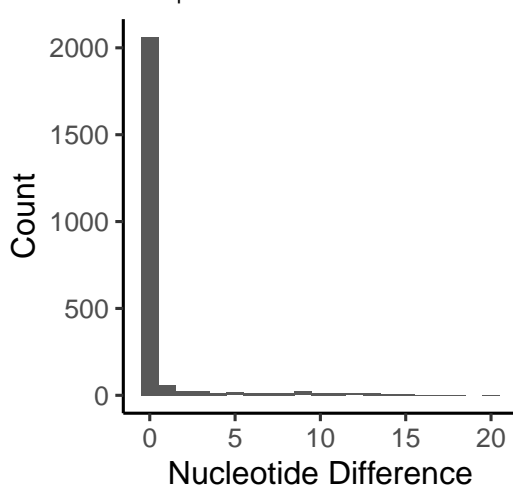
IGHV1-3*01_05

893 sequences assigned
711 (79.6%) exact matches, in which:
708 unique CDR3
6 unique J



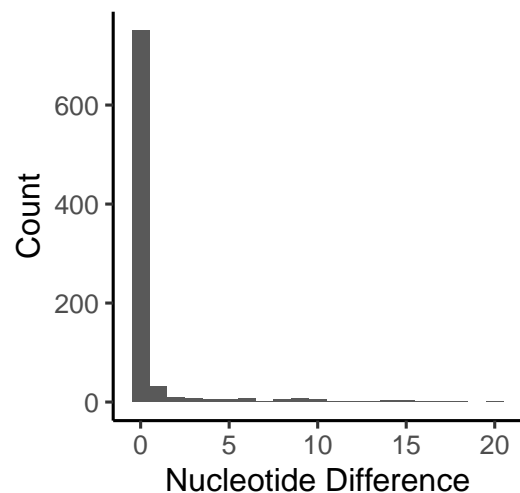
IGHV1-18*04

2346 sequences assigned
2062 (87.9%) exact matches, in which:
2056 unique CDR3
6 unique J



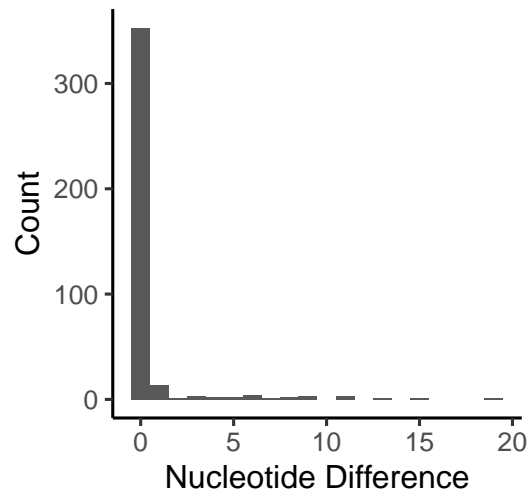
IGHV1-46*01

858 sequences assigned
751 (87.5%) exact matches, in which:
751 unique CDR3
6 unique J



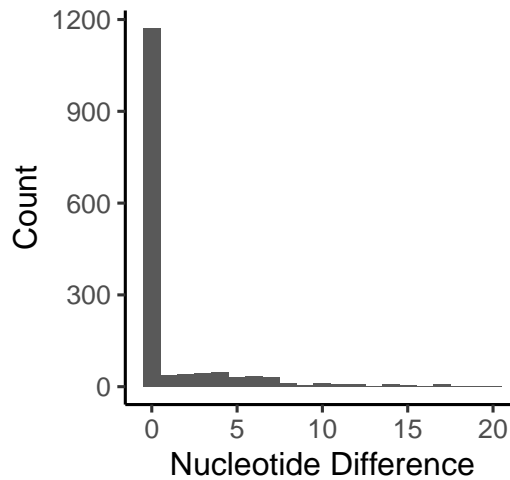
IGHV1–46*03

392 sequences assigned
353 (90.1%) exact matches, in which:
351 unique CDR3
6 unique J



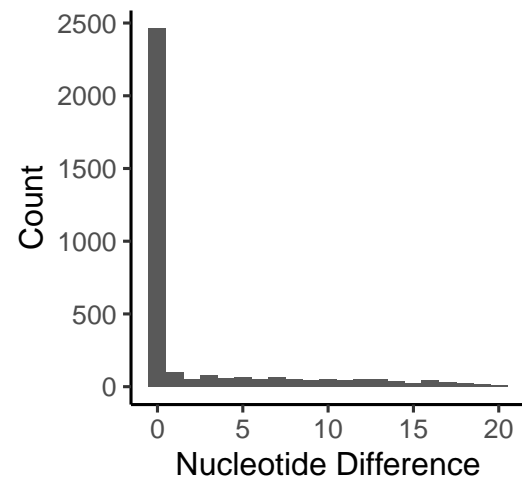
IGHV2–5*01

1520 sequences assigned
1171 (77%) exact matches, in which:
1163 unique CDR3
6 unique J



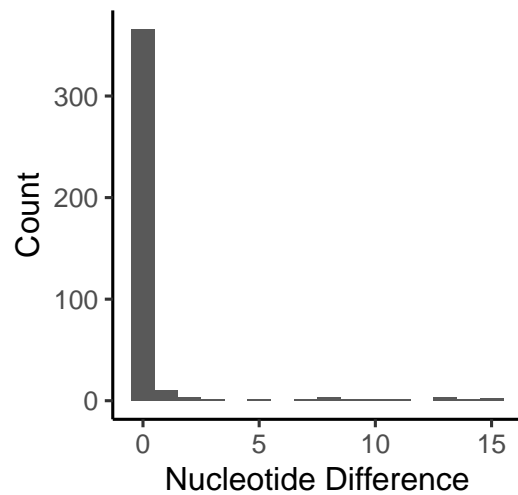
IGHV3–7*01

3461 sequences assigned
2463 (71.2%) exact matches, in which:
2327 unique CDR3
6 unique J



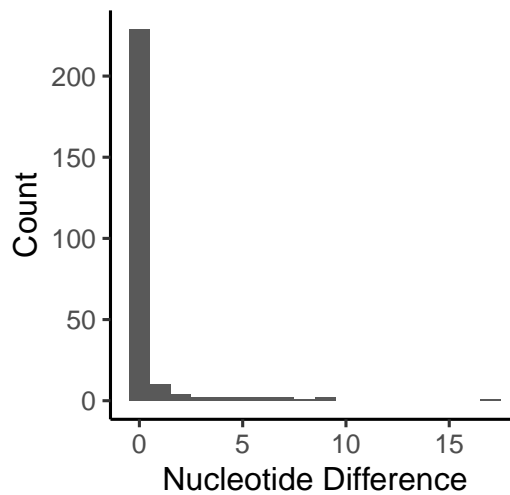
IGHV1–58*01_03

394 sequences assigned
366 (92.9%) exact matches, in which:
365 unique CDR3
6 unique J



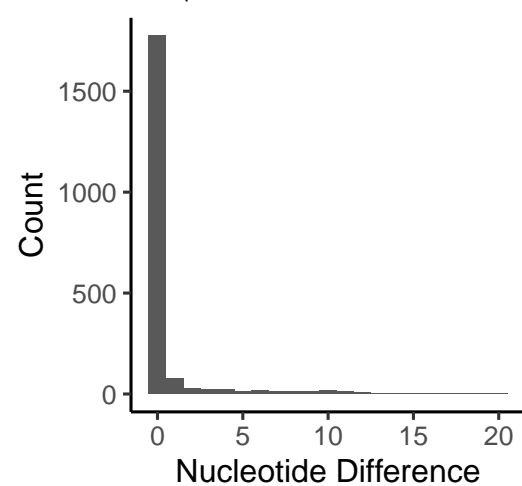
IGHV2–26*01

257 sequences assigned
229 (89.1%) exact matches, in which:
228 unique CDR3
6 unique J



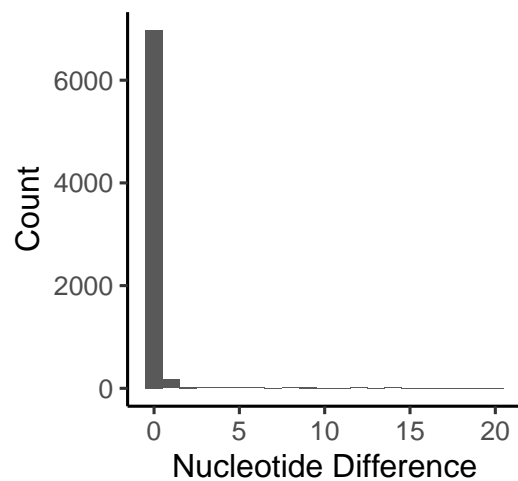
IGHV3–9*01

2046 sequences assigned
1775 (86.8%) exact matches, in which:
1713 unique CDR3
6 unique J



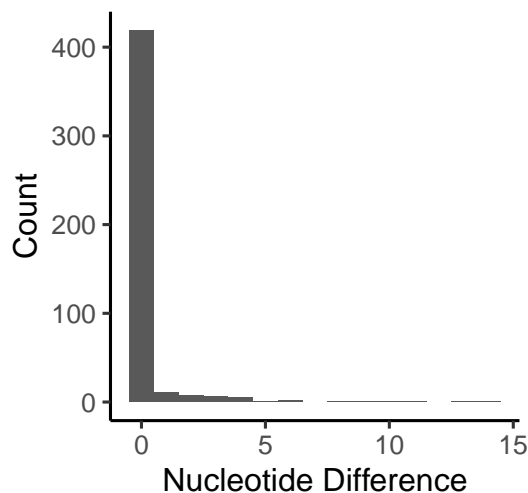
IGHV1–69*01_12_13

7405 sequences assigned
6977 (94.2%) exact matches, in which:
6959 unique CDR3
6 unique J



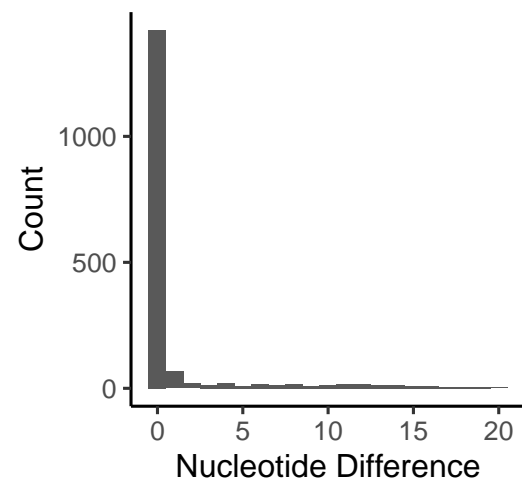
IGHV2–70*01

457 sequences assigned
419 (91.7%) exact matches, in which:
415 unique CDR3
5 unique J



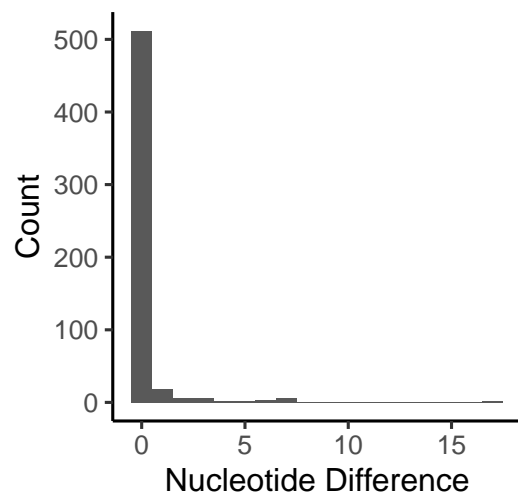
IGHV3–11*01

1730 sequences assigned
1422 (82.2%) exact matches, in which:
1359 unique CDR3
6 unique J



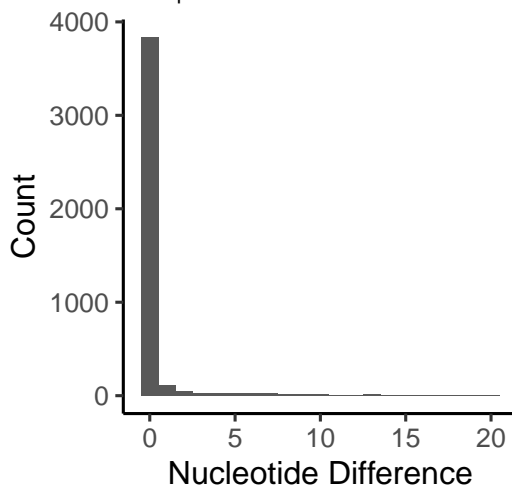
IGHV3-13*01

568 sequences assigned
512 (90.1%) exact matches, in which:
477 unique CDR3
5 unique J



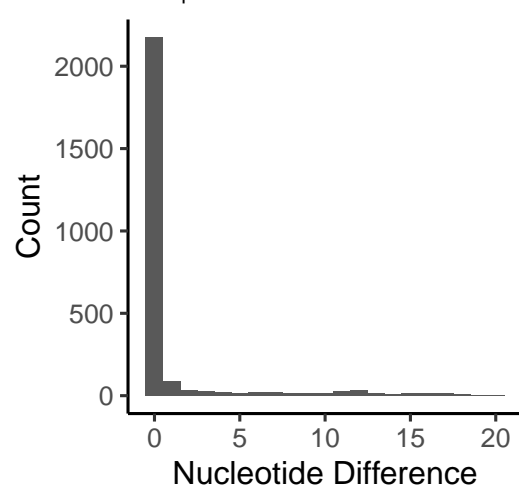
IGHV3-21*01_02

4250 sequences assigned
3834 (90.2%) exact matches, in which:
3575 unique CDR3
6 unique J



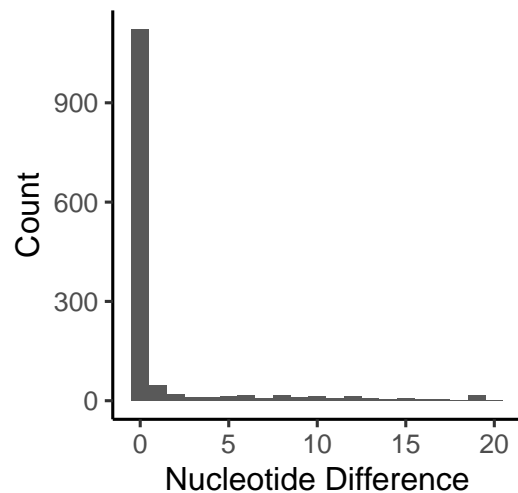
IGHV3-33*01

2603 sequences assigned
2175 (83.6%) exact matches, in which:
2093 unique CDR3
6 unique J



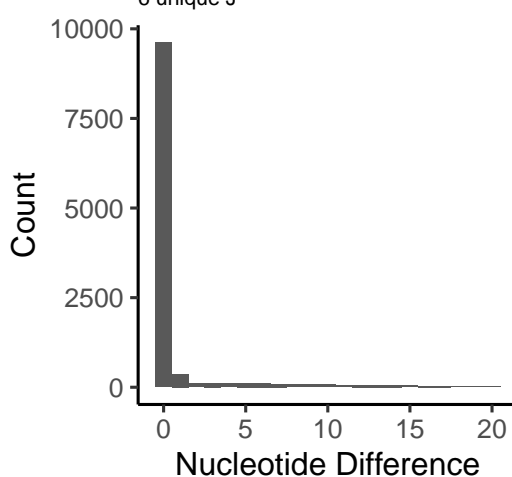
IGHV3-15*01_02

1378 sequences assigned
1123 (81.5%) exact matches, in which:
1076 unique CDR3
6 unique J



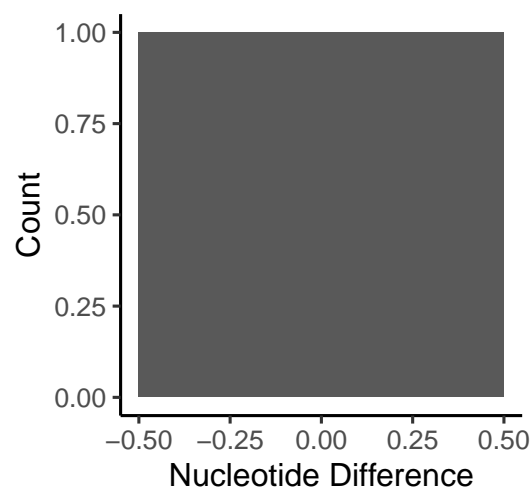
IGHV3-23*01_04

11338 sequences assigned
9619 (84.8%) exact matches, in which:
8999 unique CDR3
6 unique J



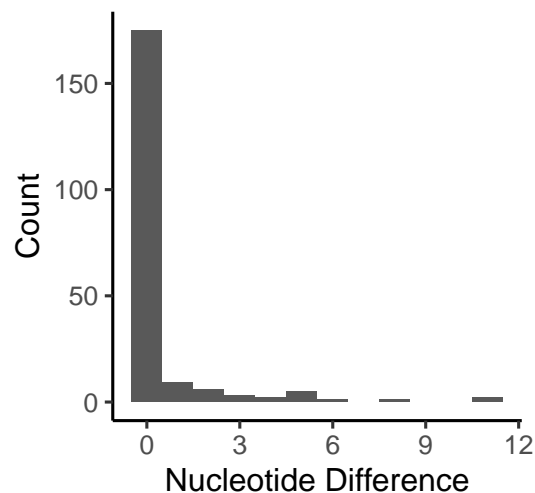
IGHV3-35*01

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



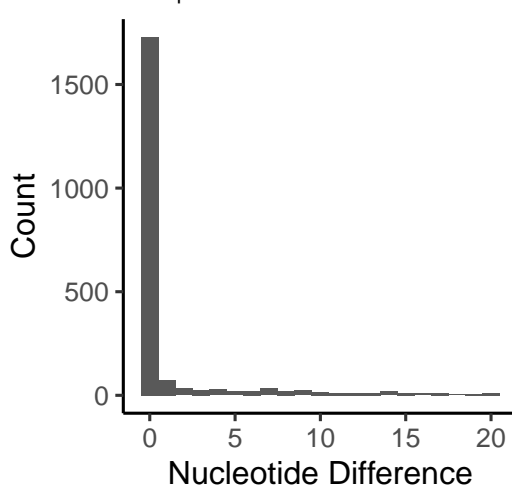
IGHV3-20*01_02

206 sequences assigned
175 (85%) exact matches, in which:
165 unique CDR3
5 unique J



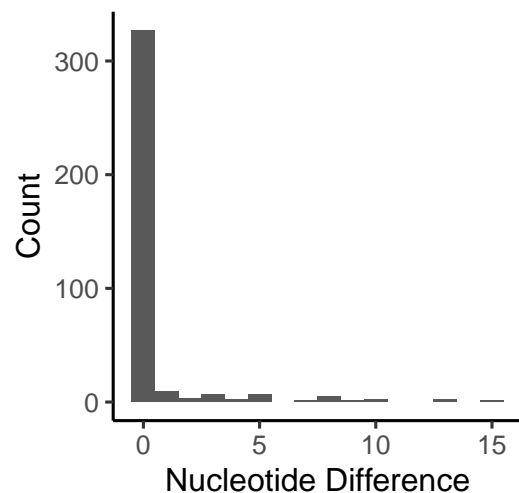
IGHV3-30-3*01

2149 sequences assigned
1729 (80.5%) exact matches, in which:
1665 unique CDR3
6 unique J



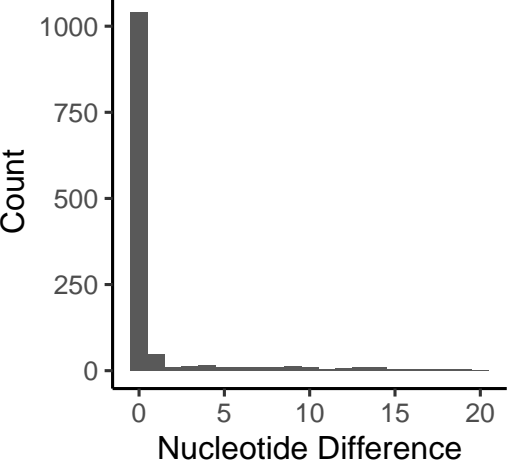
IGHV3-43*01

367 sequences assigned
327 (89.1%) exact matches, in which:
306 unique CDR3
6 unique J



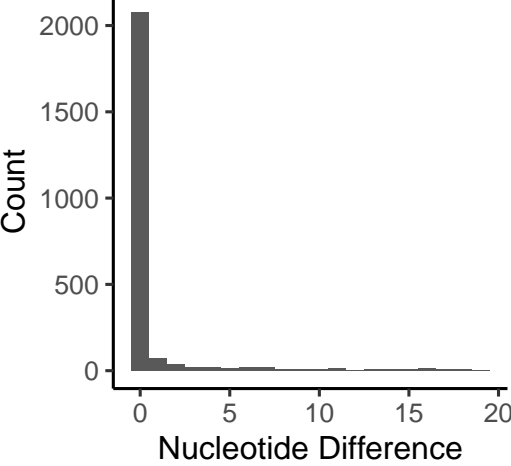
IGHV3-48*01

1255 sequences assigned
1040 (82.9%) exact matches, in which:
973 unique CDR3
6 unique J



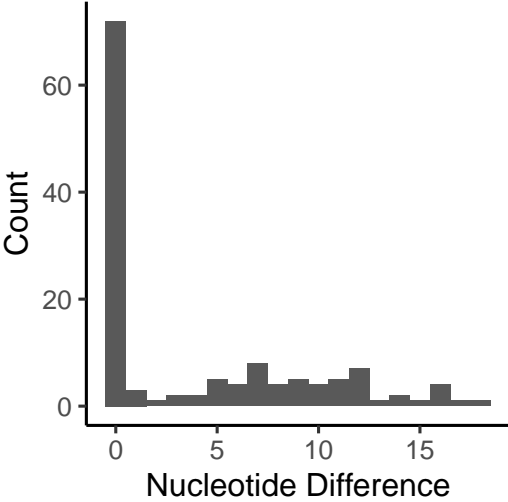
IGHV3-53*01_02

2389 sequences assigned
2076 (86.9%) exact matches, in which:
1942 unique CDR3
6 unique J



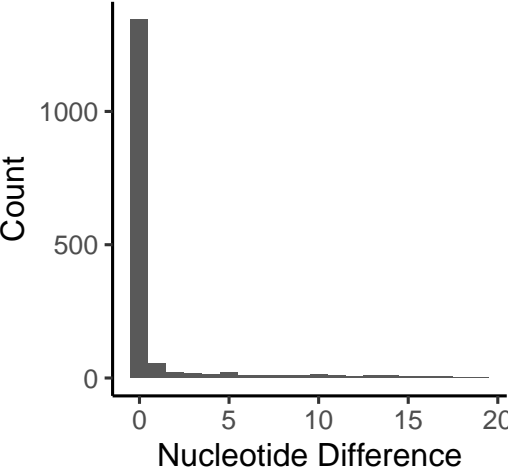
IGHV3-72*01

132 sequences assigned
72 (54.5%) exact matches, in which:
67 unique CDR3
6 unique J



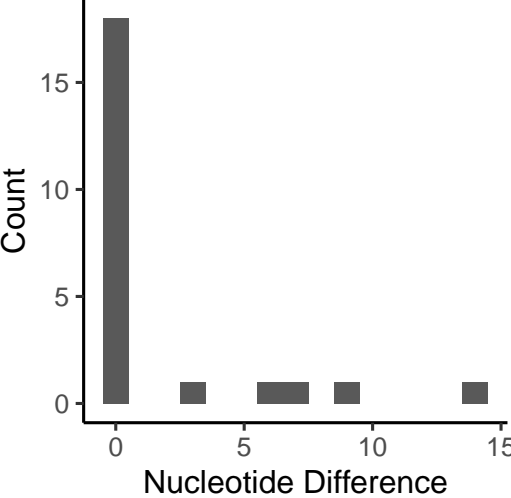
IGHV3-48*02

1581 sequences assigned
1344 (85%) exact matches, in which:
1247 unique CDR3
6 unique J



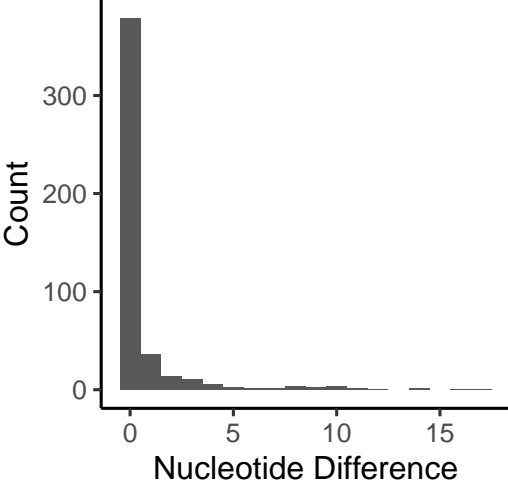
IGHV3-64*02_07

23 sequences assigned
18 (78.3%) exact matches, in which:
18 unique CDR3
5 unique J



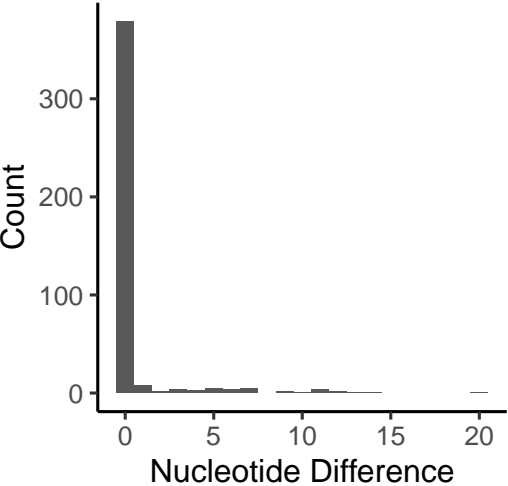
IGHV3-73*01_02

471 sequences assigned
379 (80.5%) exact matches, in which:
324 unique CDR3
6 unique J



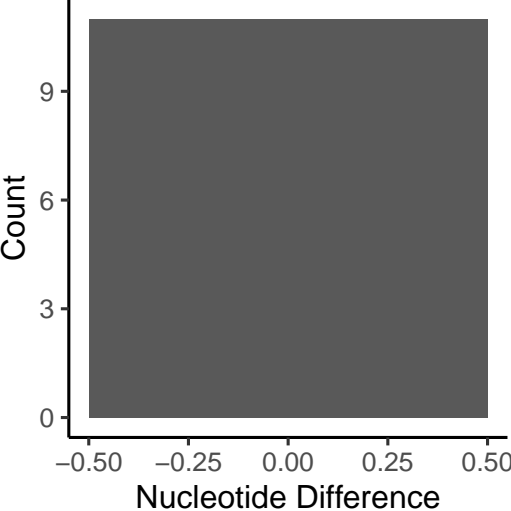
IGHV3-49*03_05

422 sequences assigned
379 (89.8%) exact matches, in which:
370 unique CDR3
6 unique J



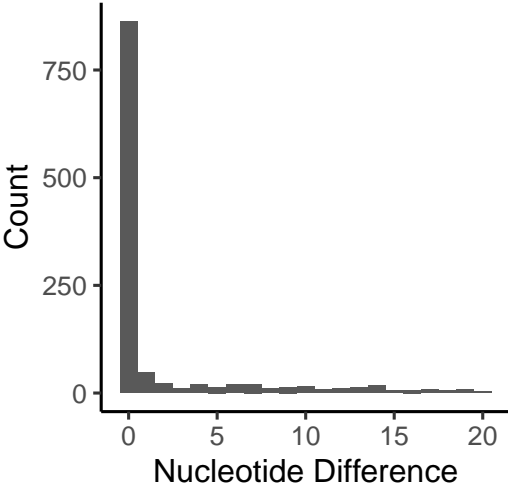
IGHV3-66*03

11 sequences assigned
11 (100%) exact matches, in which:
11 unique CDR3
2 unique J



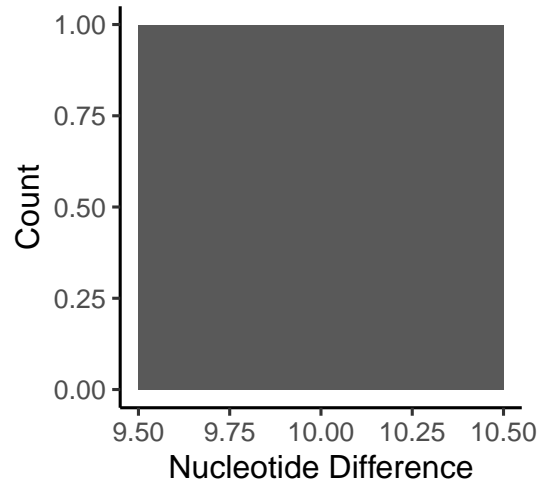
IGHV3-74*01_02

1160 sequences assigned
863 (74.4%) exact matches, in which:
817 unique CDR3
6 unique J



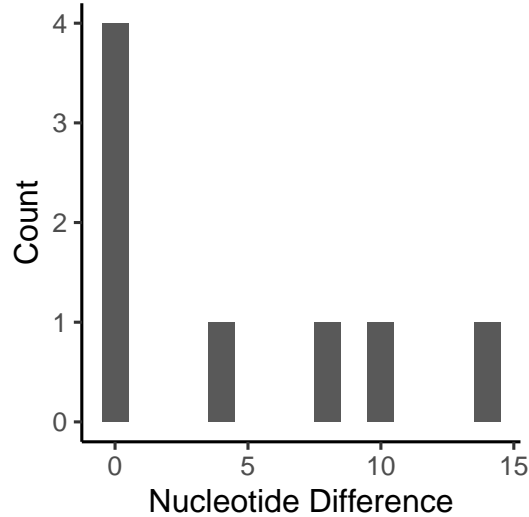
IGHV3–NL1*01

1 sequences assigned
No exact matches.



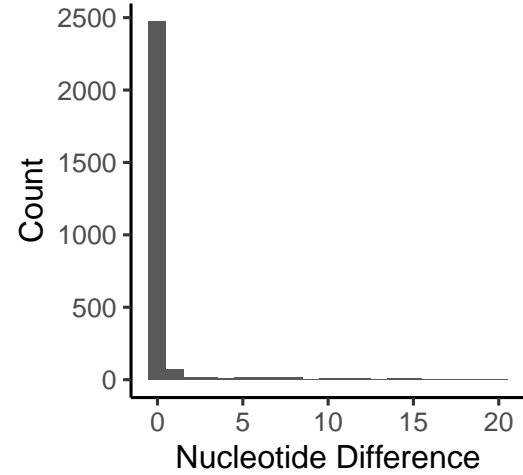
IGHV4–28*01_07

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



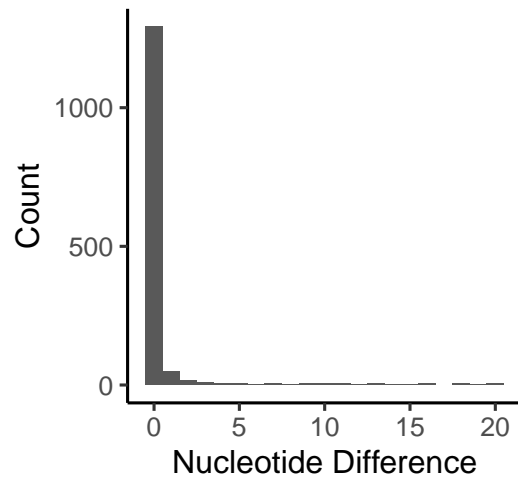
IGHV4–31*02

2727 sequences assigned
2474 (90.7%) exact matches, in which:
2407 unique CDR3
6 unique J



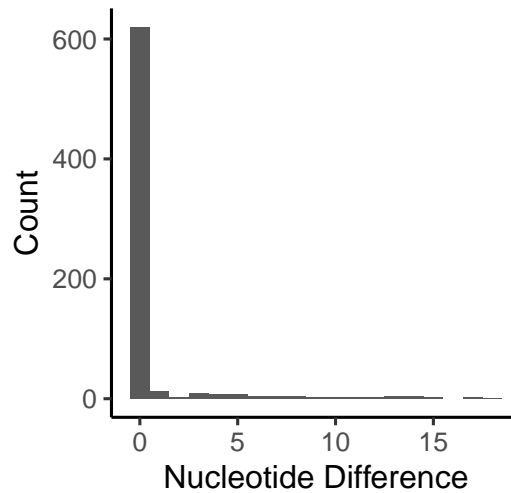
IGHV4–4*07

1429 sequences assigned
1292 (90.4%) exact matches, in which:
1215 unique CDR3
6 unique J



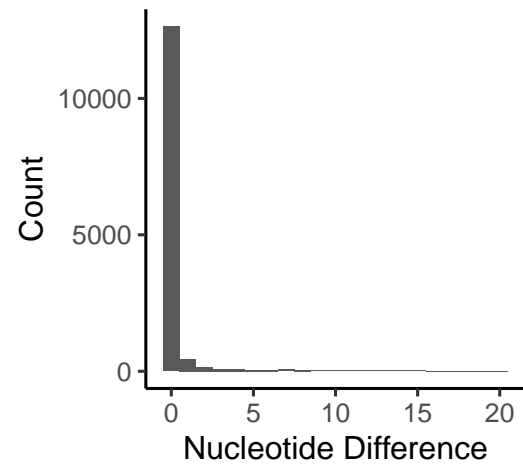
IGHV4–30–4*01

695 sequences assigned
620 (89.2%) exact matches, in which:
607 unique CDR3
6 unique J



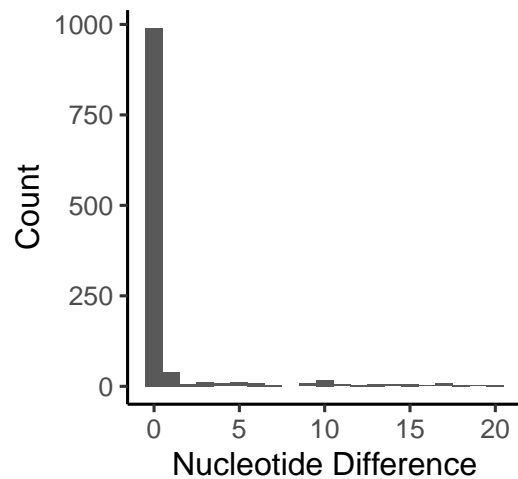
IGHV4–34*01_02

13857 sequences assigned
12637 (91.2%) exact matches, in which:
11775 unique CDR3
6 unique J



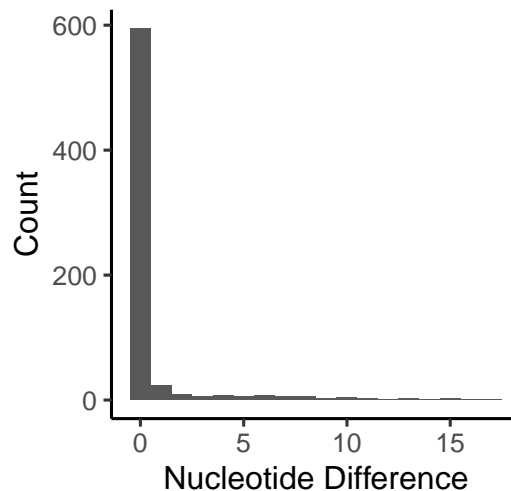
IGHV4–4*02_03

1163 sequences assigned
990 (85.1%) exact matches, in which:
949 unique CDR3
6 unique J



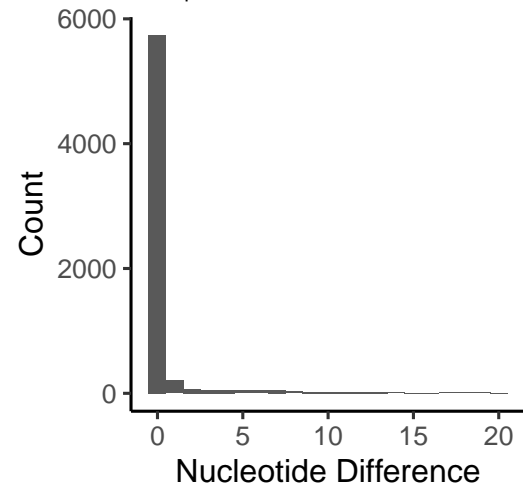
IGHV4–30–2*01

684 sequences assigned
595 (87%) exact matches, in which:
559 unique CDR3
6 unique J



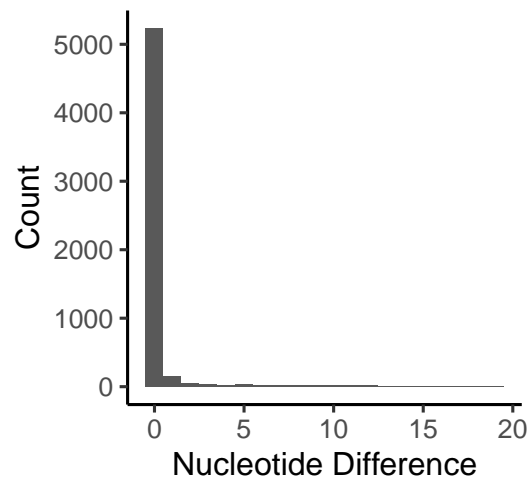
IGHV4–39*02_C258G

6506 sequences assigned
5740 (88.2%) exact matches, in which:
5487 unique CDR3
6 unique J



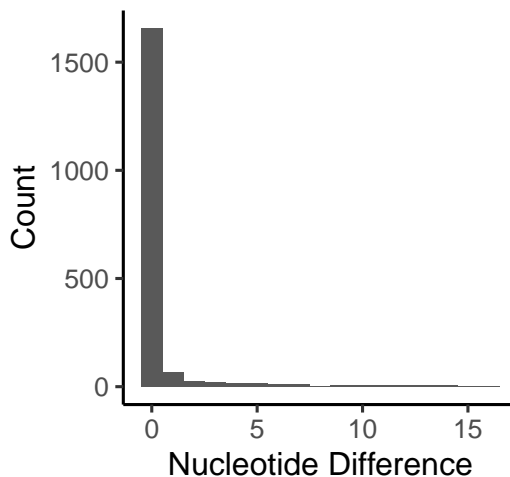
IGHV4-59*02_G88A

5735 sequences assigned
5232 (91.2%) exact matches, in which:
4912 unique CDR3
6 unique J



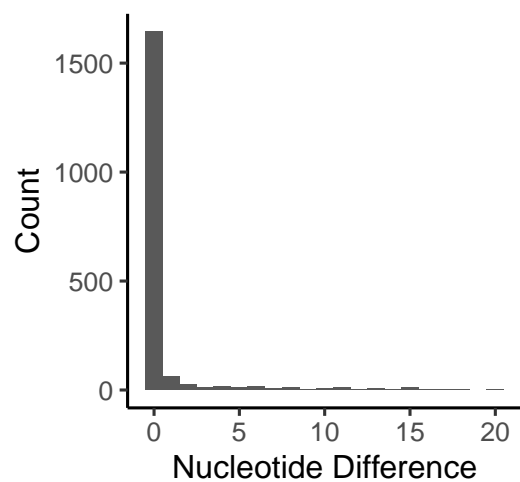
IGHV5-51*07_A128G

1875 sequences assigned
1656 (88.3%) exact matches, in which:
1650 unique CDR3
6 unique J



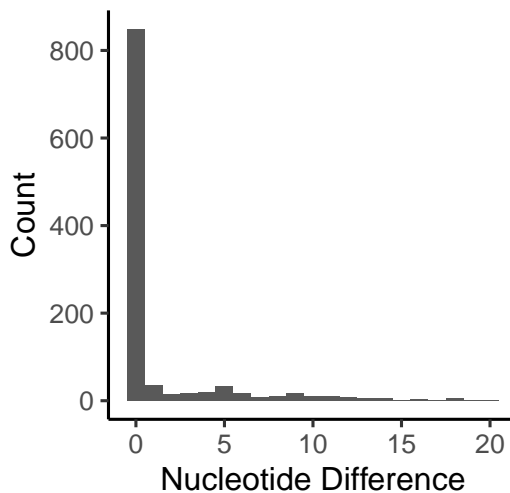
IGHV4-61*01

1857 sequences assigned
1644 (88.5%) exact matches, in which:
1561 unique CDR3
6 unique J



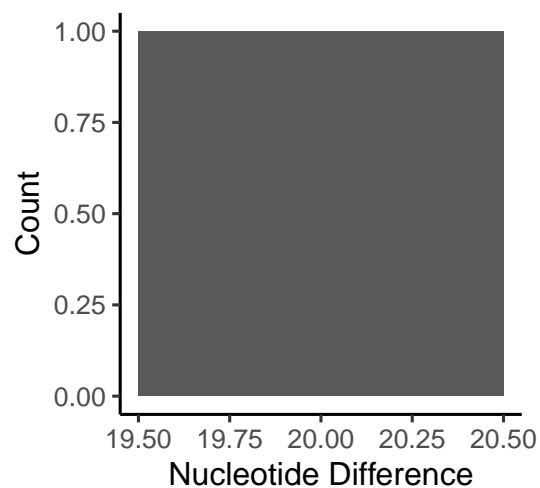
IGHV6-1*01_02

1081 sequences assigned
849 (78.5%) exact matches, in which:
842 unique CDR3
6 unique J



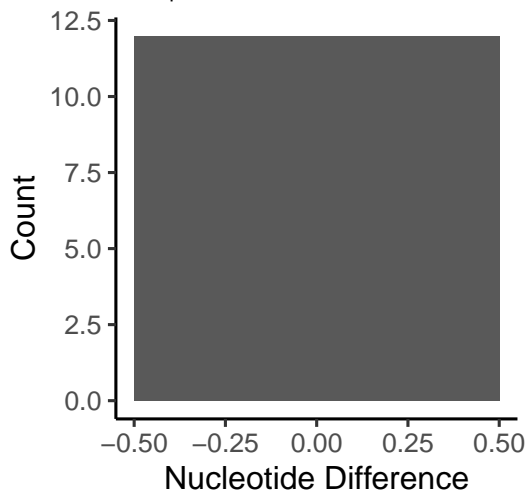
IGHV4/OR15-8*02

1 sequences assigned
No exact matches.



IGHV7-4-1*01

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





Warning – no inferred sequences found.