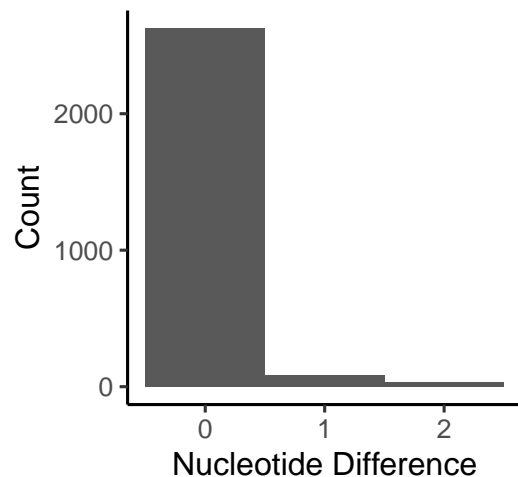


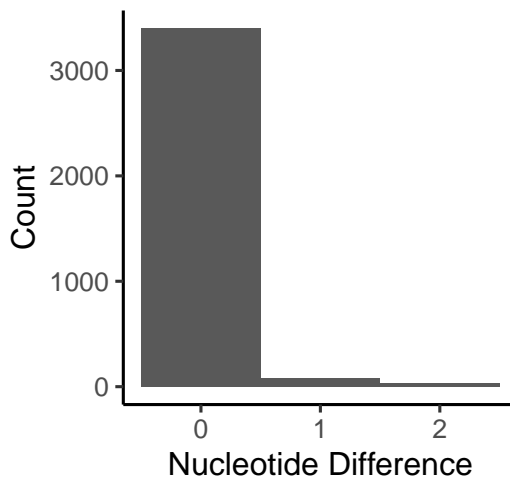
IGHV1-2*02

2738 sequences assigned
2625 (95.9%) exact matches, in which:
2614 unique CDR3
6 unique J



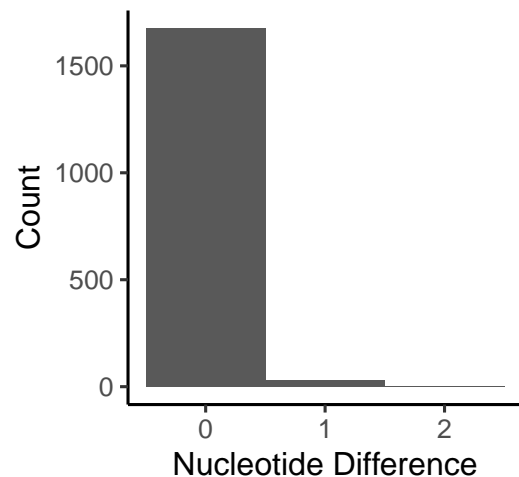
IGHV1-8*01

3512 sequences assigned
3399 (96.8%) exact matches, in which:
3377 unique CDR3
6 unique J



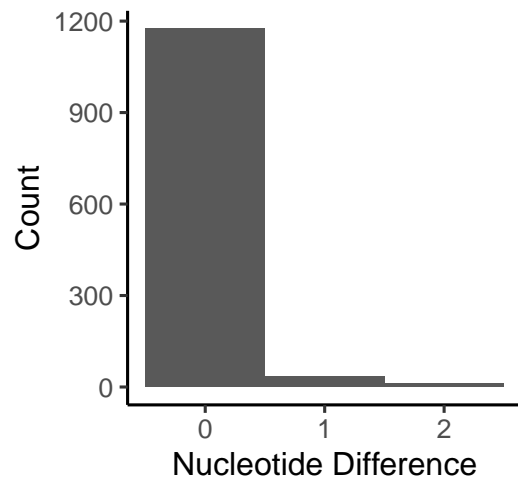
IGHV1-24*01

1709 sequences assigned
1675 (98%) exact matches, in which:
1671 unique CDR3
6 unique J



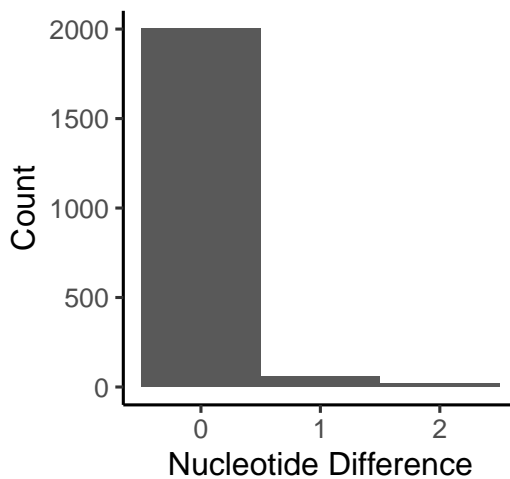
IGHV1-2*04

1220 sequences assigned
1175 (96.3%) exact matches, in which:
1174 unique CDR3
6 unique J



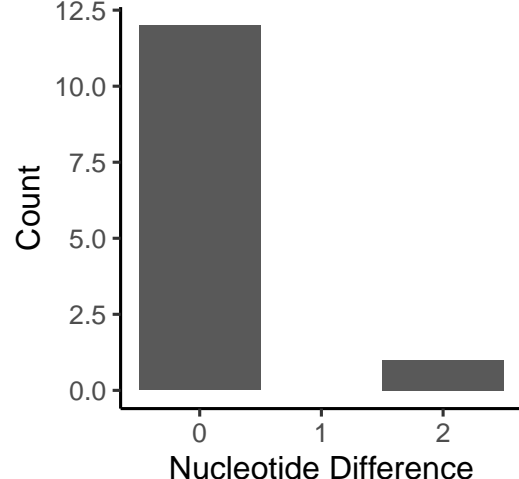
IGHV1-18*01

2083 sequences assigned
2002 (96.1%) exact matches, in which:
1999 unique CDR3
6 unique J



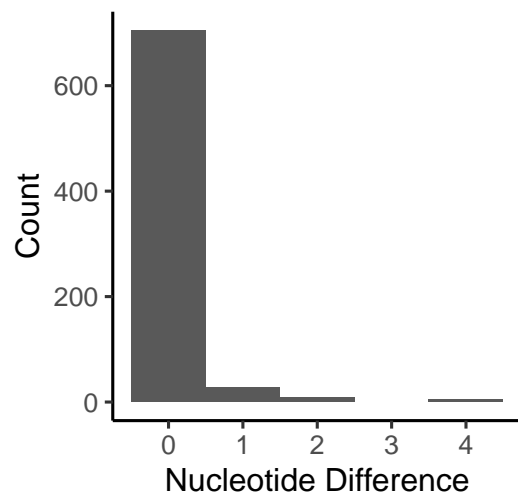
IGHV1-45*02

13 sequences assigned
12 (92.3%) exact matches, in which:
12 unique CDR3
3 unique J



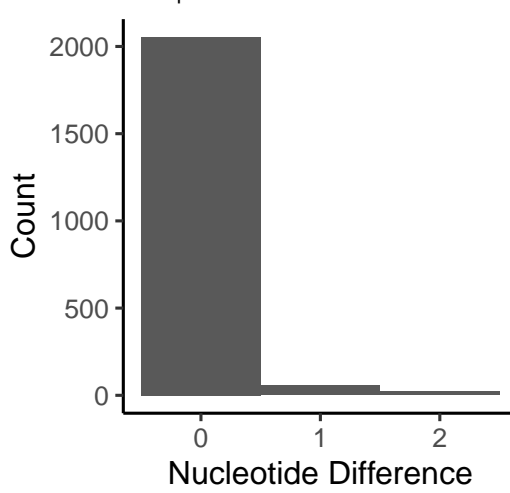
IGHV1-3*01_05

746 sequences assigned
705 (94.5%) exact matches, in which:
702 unique CDR3
6 unique J



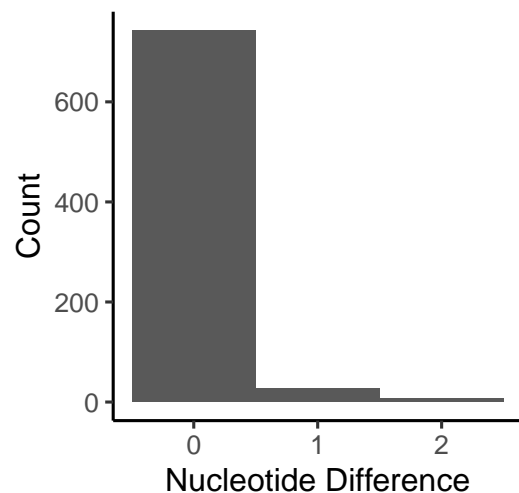
IGHV1-18*04

2131 sequences assigned
2054 (96.4%) exact matches, in which:
2049 unique CDR3
6 unique J



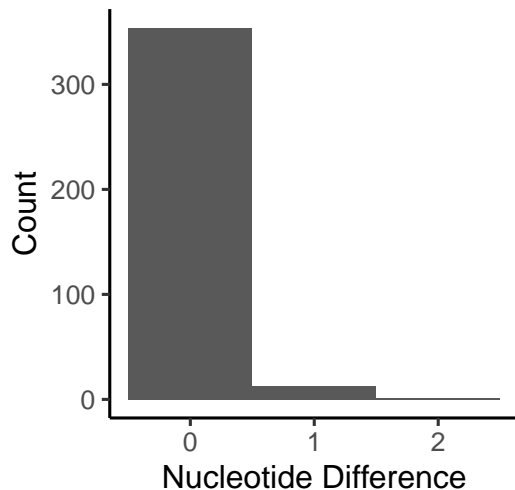
IGHV1-46*01

778 sequences assigned
743 (95.5%) exact matches, in which:
743 unique CDR3
6 unique J



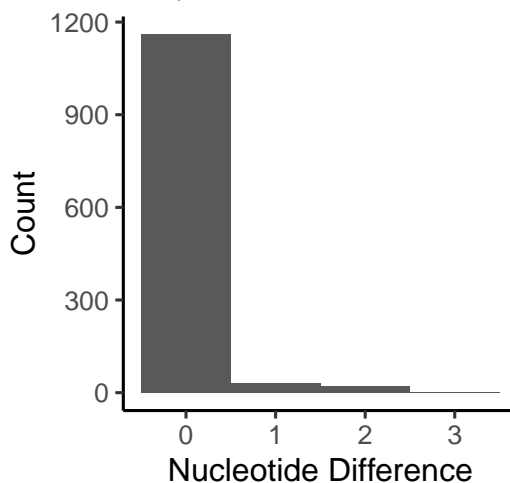
IGHV1-46*03

368 sequences assigned
354 (96.2%) exact matches, in which:
352 unique CDR3
6 unique J



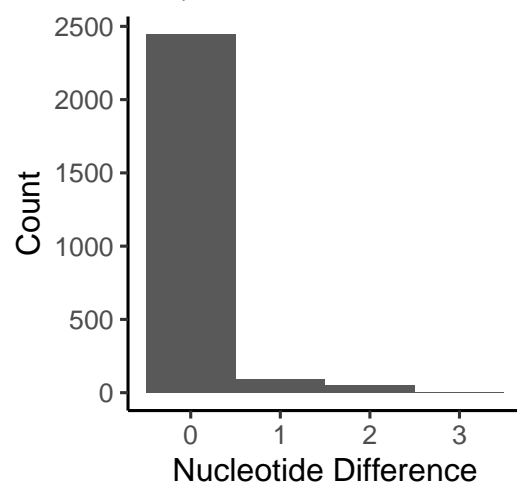
IGHV2-5*01

1215 sequences assigned
1160 (95.5%) exact matches, in which:
1154 unique CDR3
6 unique J



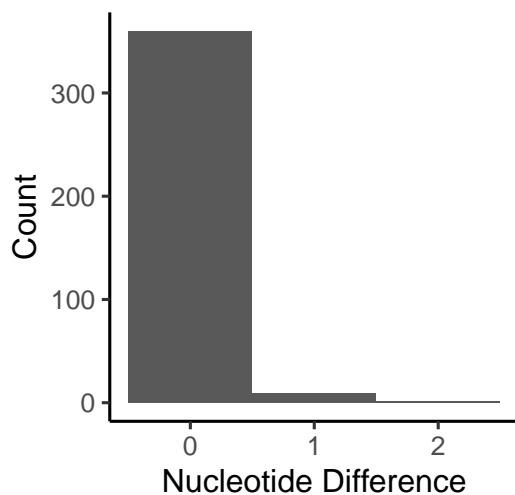
IGHV3-7*01

2588 sequences assigned
2445 (94.5%) exact matches, in which:
2310 unique CDR3
6 unique J



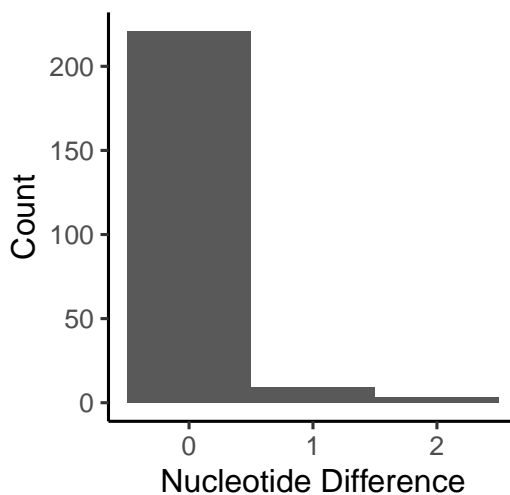
IGHV1-58*01_03

370 sequences assigned
360 (97.3%) exact matches, in which:
360 unique CDR3
6 unique J



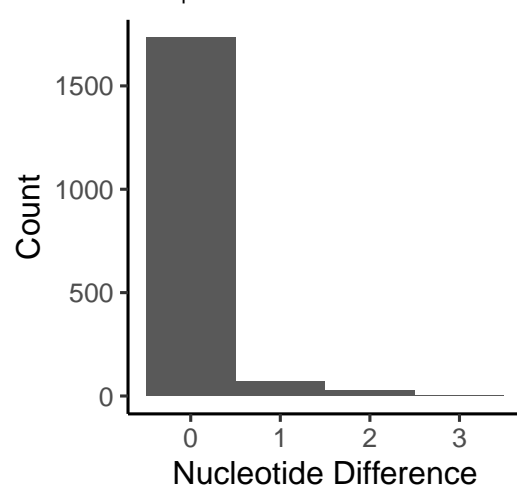
IGHV2-26*01

233 sequences assigned
221 (94.8%) exact matches, in which:
220 unique CDR3
6 unique J



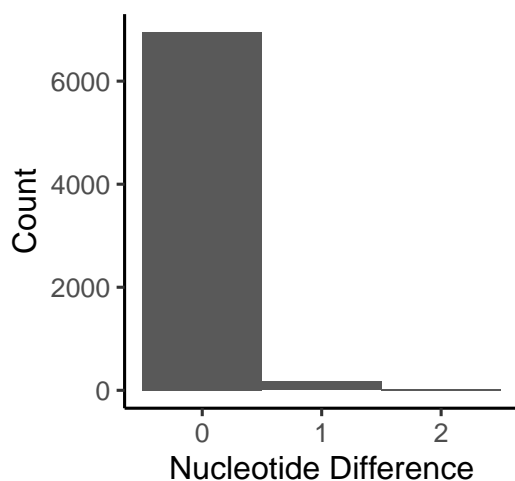
IGHV3-9*01

1830 sequences assigned
1733 (94.7%) exact matches, in which:
1685 unique CDR3
6 unique J



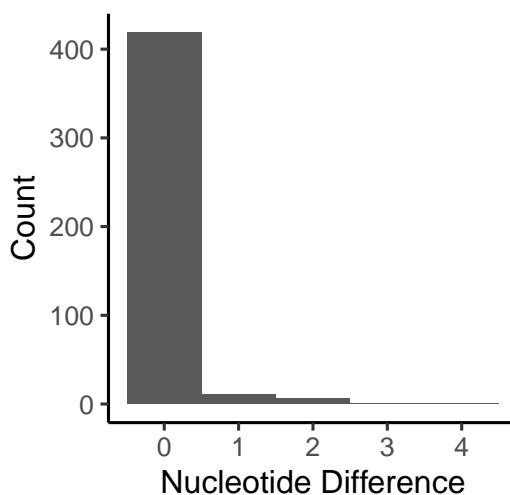
IGHV1-69*01_12_13

7141 sequences assigned
6953 (97.4%) exact matches, in which:
6935 unique CDR3
6 unique J



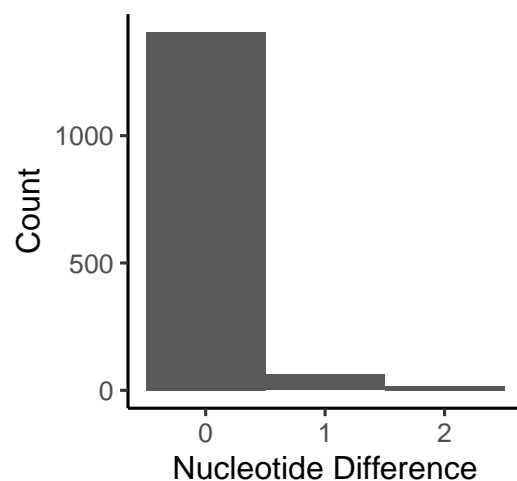
IGHV2-70*01

438 sequences assigned
419 (95.7%) exact matches, in which:
415 unique CDR3
5 unique J



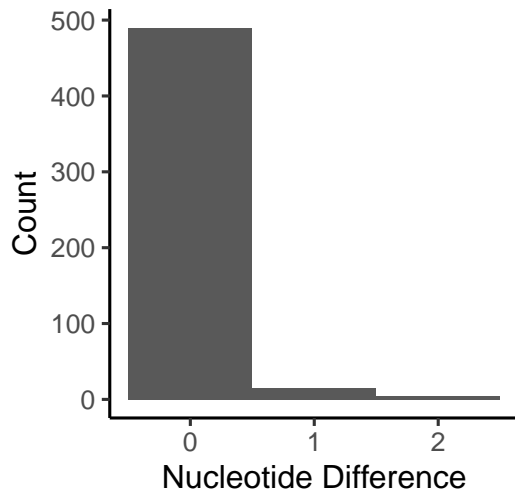
IGHV3-11*01

1486 sequences assigned
1407 (94.7%) exact matches, in which:
1348 unique CDR3
6 unique J



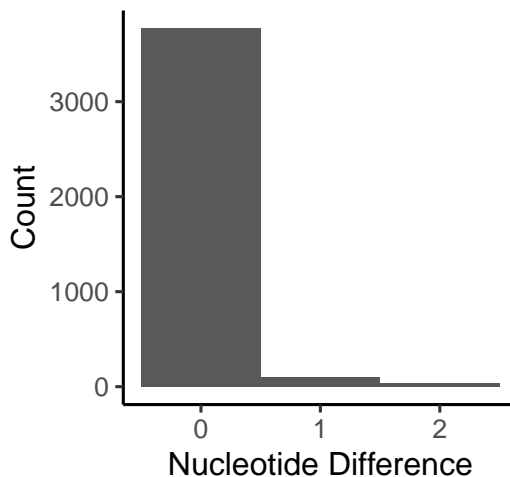
IGHV3-13*01

510 sequences assigned
490 (96.1%) exact matches, in which:
466 unique CDR3
5 unique J



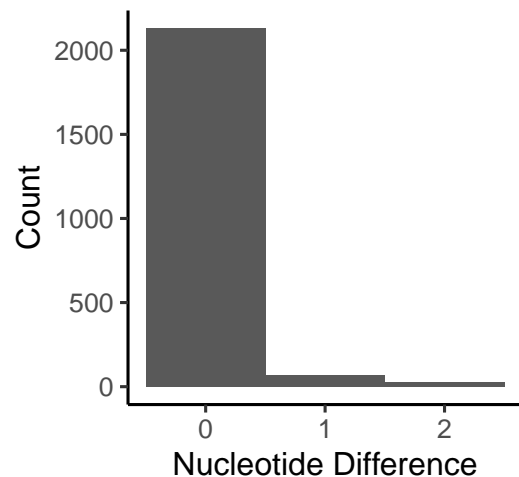
IGHV3-21*01_02

3908 sequences assigned
3771 (96.5%) exact matches, in which:
3540 unique CDR3
6 unique J



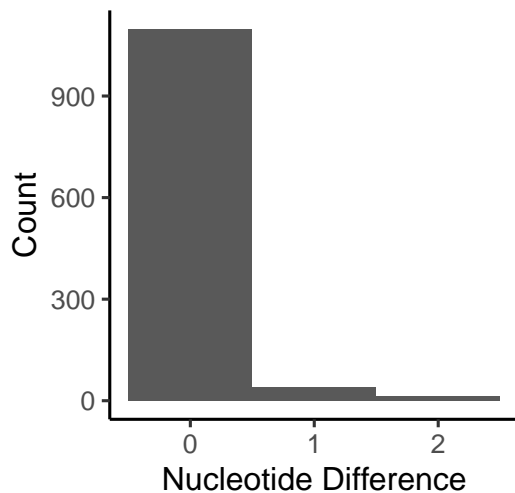
IGHV3-33*01

2227 sequences assigned
2130 (95.6%) exact matches, in which:
2071 unique CDR3
6 unique J



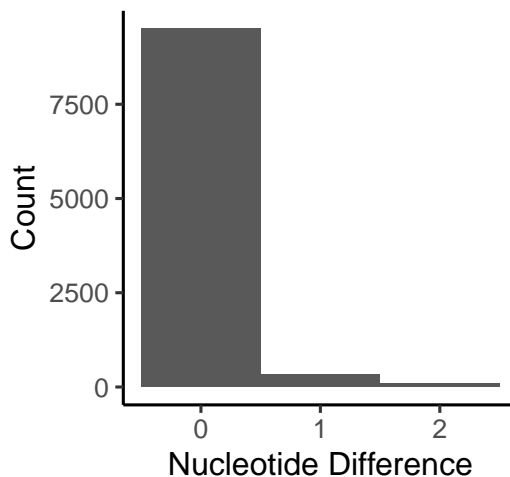
IGHV3-15*01_02

1151 sequences assigned
1098 (95.4%) exact matches, in which:
1061 unique CDR3
6 unique J



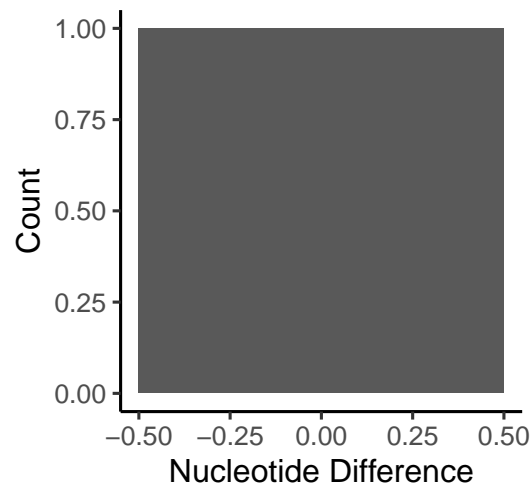
IGHV3-23*01_04

9947 sequences assigned
9504 (95.5%) exact matches, in which:
8938 unique CDR3
6 unique J



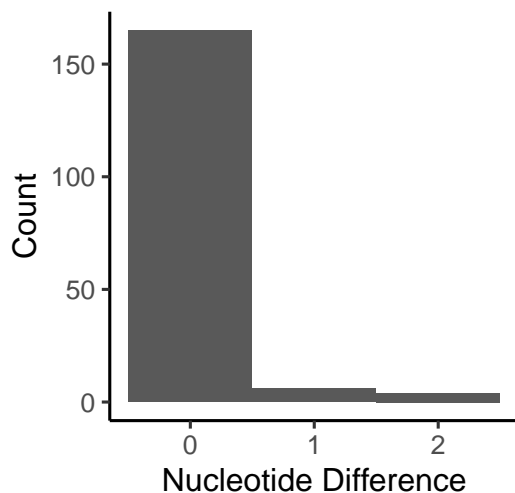
IGHV3-35*01

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



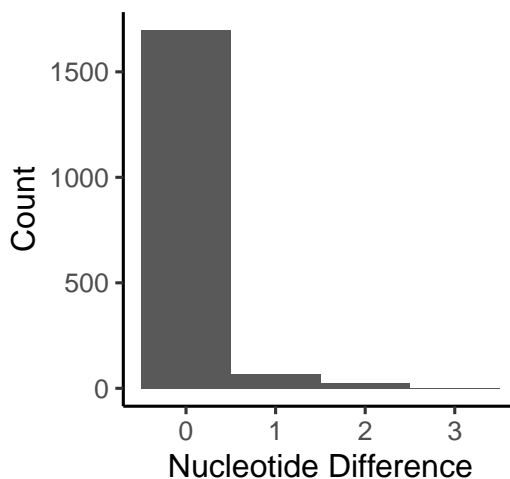
IGHV3-20*01_02

175 sequences assigned
165 (94.3%) exact matches, in which:
159 unique CDR3
5 unique J



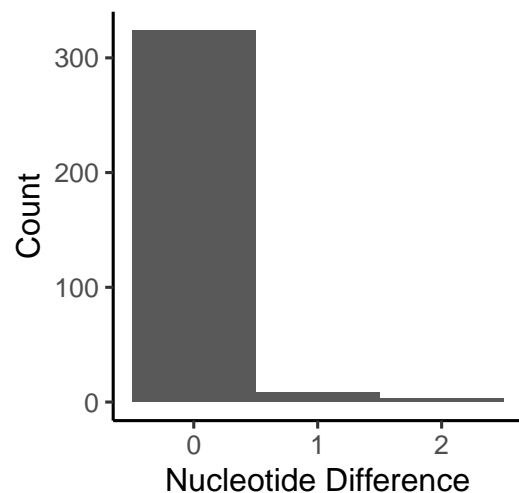
IGHV3-30-3*01

1792 sequences assigned
1698 (94.8%) exact matches, in which:
1646 unique CDR3
6 unique J



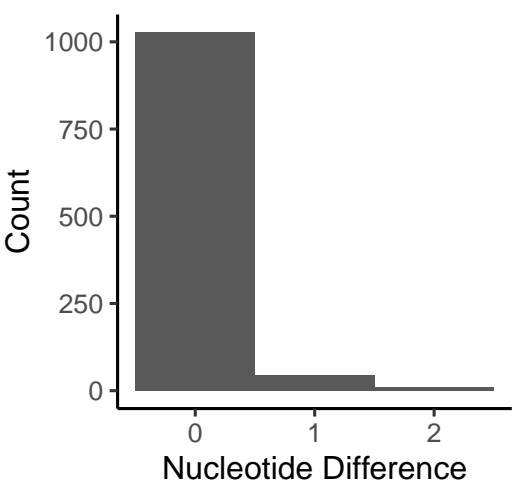
IGHV3-43*01

335 sequences assigned
324 (96.7%) exact matches, in which:
304 unique CDR3
6 unique J



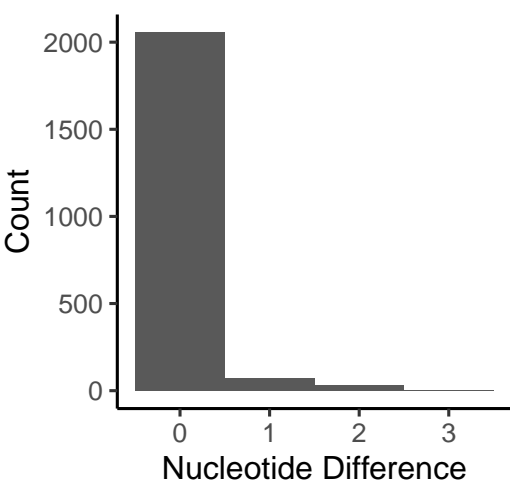
IGHV3-48*01

1080 sequences assigned
1027 (95.1%) exact matches, in which:
965 unique CDR3
6 unique J



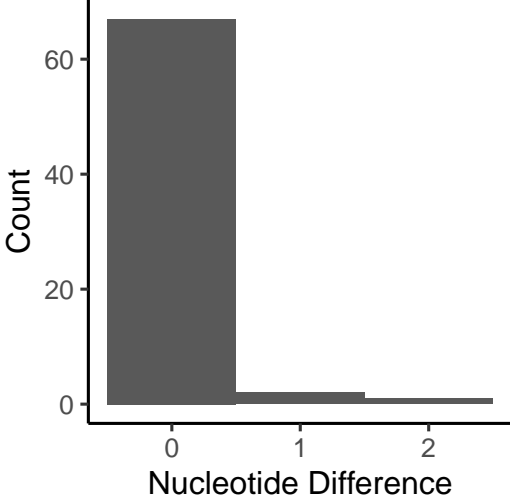
IGHV3-53*01_02

2159 sequences assigned
2056 (95.2%) exact matches, in which:
1927 unique CDR3
6 unique J



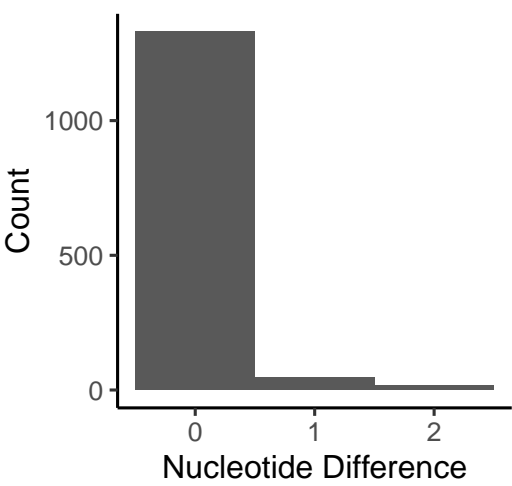
IGHV3-72*01

70 sequences assigned
67 (95.7%) exact matches, in which:
65 unique CDR3
6 unique J



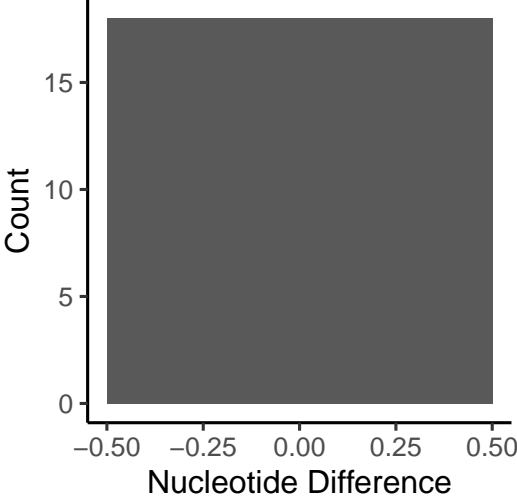
IGHV3-48*02

1391 sequences assigned
1330 (95.6%) exact matches, in which:
1238 unique CDR3
6 unique J



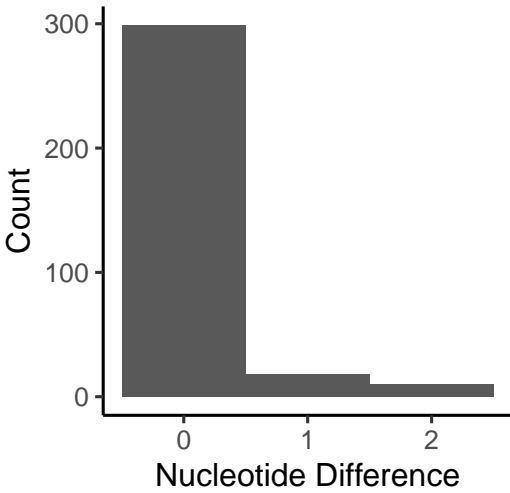
IGHV3-64*02_07

18 sequences assigned
18 (100%) exact matches, in which:
18 unique CDR3
5 unique J



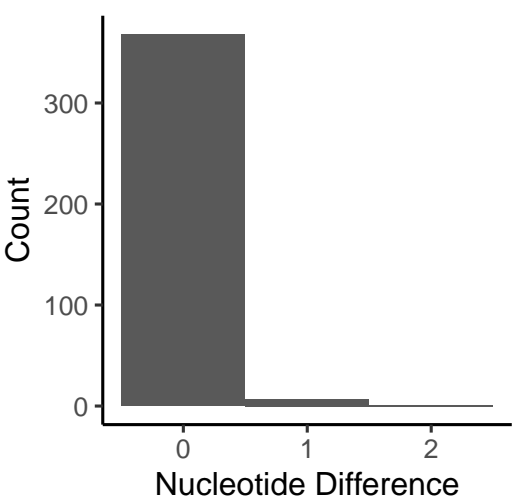
IGHV3-73*01_02

327 sequences assigned
299 (91.4%) exact matches, in which:
277 unique CDR3
6 unique J



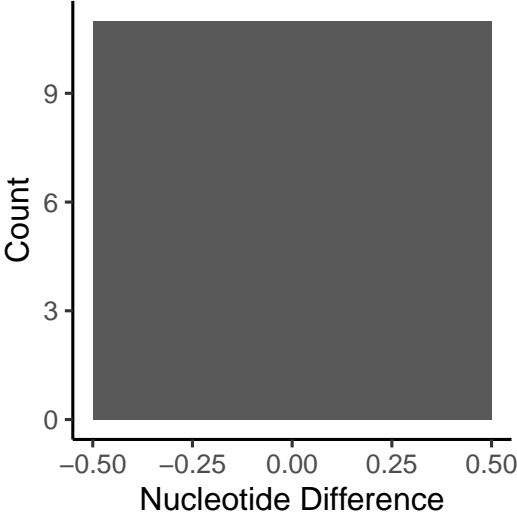
IGHV3-49*03_05

376 sequences assigned
368 (97.9%) exact matches, in which:
364 unique CDR3
6 unique J



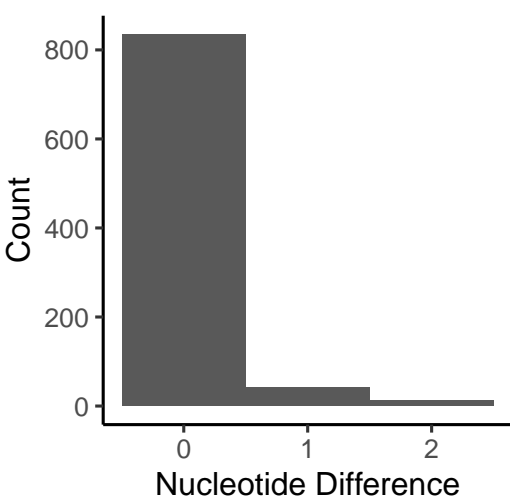
IGHV3-66*03

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



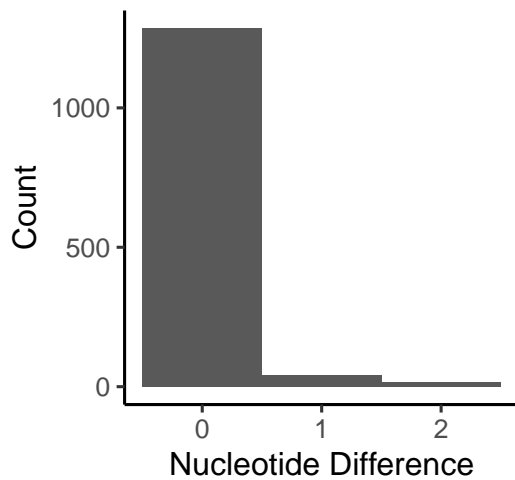
IGHV3-74*01_02

889 sequences assigned
835 (93.9%) exact matches, in which:
802 unique CDR3
6 unique J



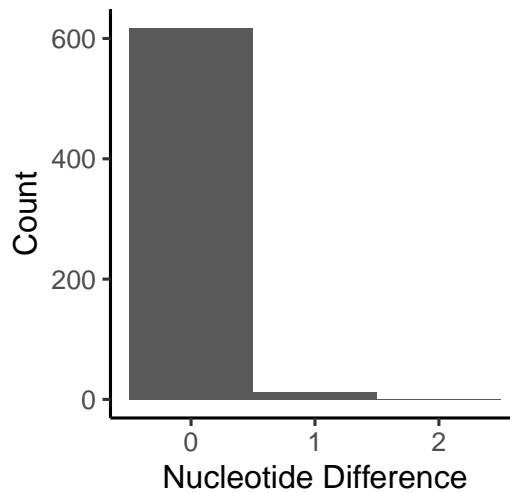
IGHV4-4*07

1344 sequences assigned
1285 (95.6%) exact matches, in which:
1211 unique CDR3
6 unique J



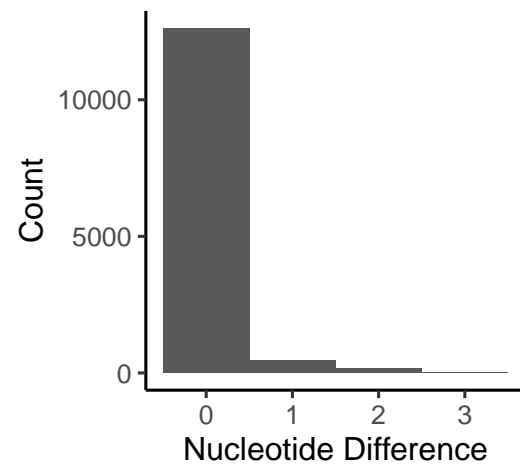
IGHV4-30-4*01

631 sequences assigned
618 (97.9%) exact matches, in which:
606 unique CDR3
6 unique J



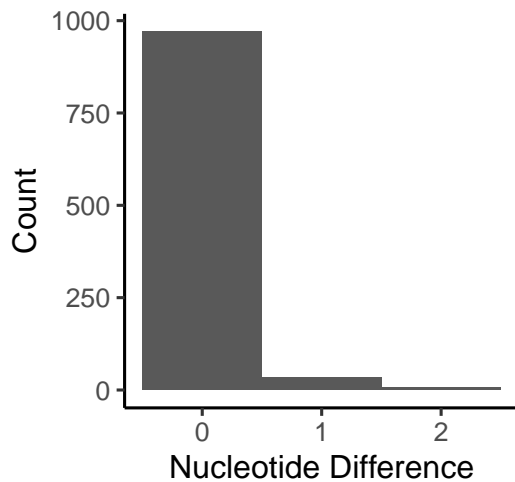
IGHV4-34*01_02

13227 sequences assigned
12622 (95.4%) exact matches, in which:
11760 unique CDR3
6 unique J



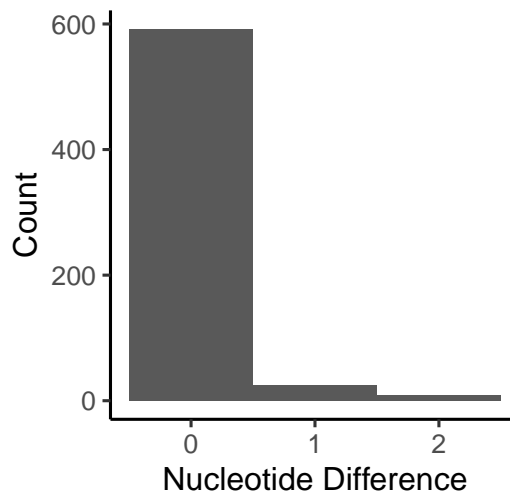
IGHV4-4*02_03

1010 sequences assigned
970 (96%) exact matches, in which:
938 unique CDR3
6 unique J



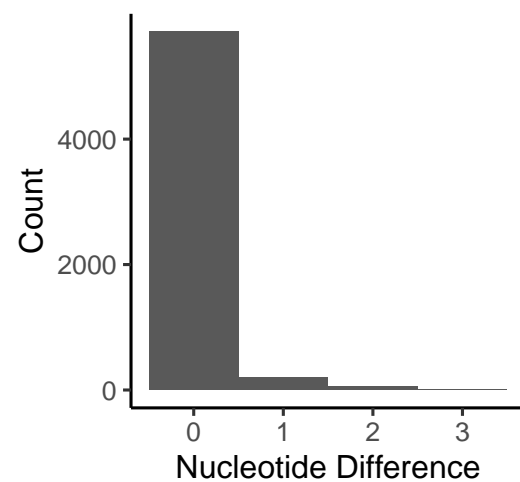
IGHV4-30-2*01

625 sequences assigned
592 (94.7%) exact matches, in which:
556 unique CDR3
6 unique J



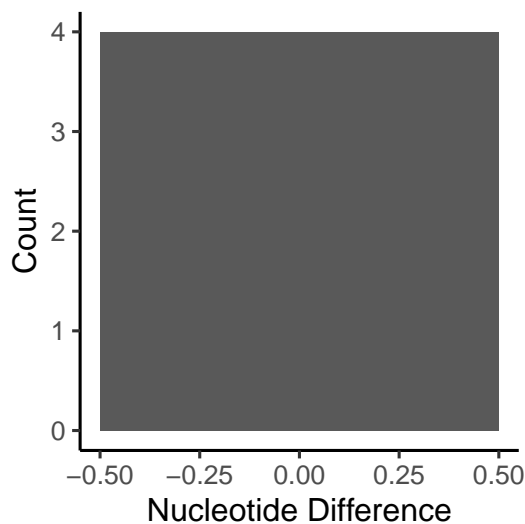
IGHV4-39*02_C258G

5974 sequences assigned
5712 (95.6%) exact matches, in which:
5471 unique CDR3
6 unique J



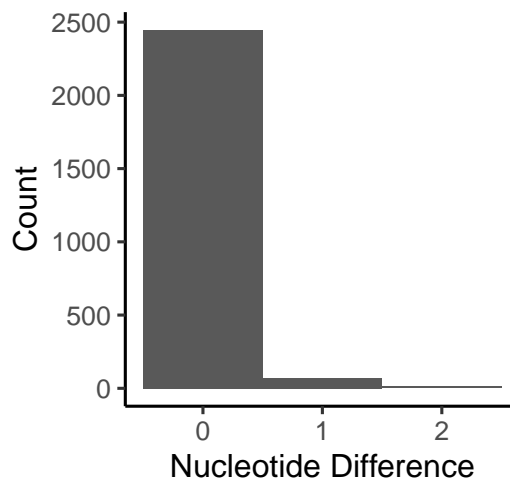
IGHV4-28*01_07

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



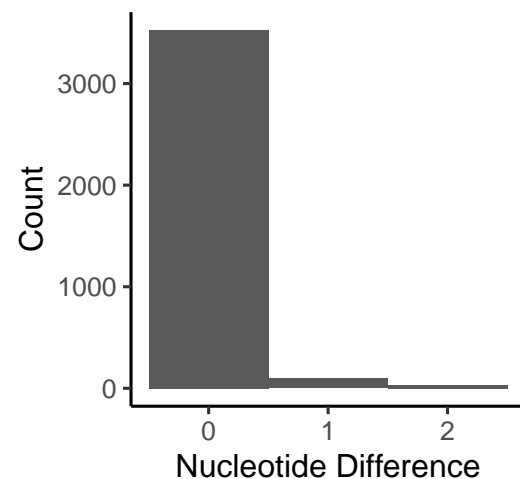
IGHV4-31*02

2529 sequences assigned
2446 (96.7%) exact matches, in which:
2386 unique CDR3
6 unique J



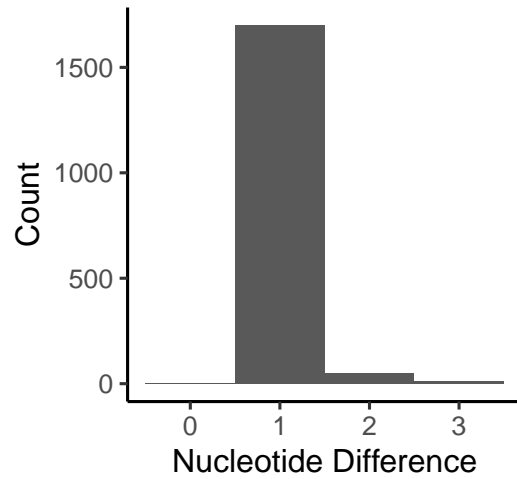
IGHV4-59*01_07

3660 sequences assigned
3527 (96.4%) exact matches, in which:
3318 unique CDR3
6 unique J



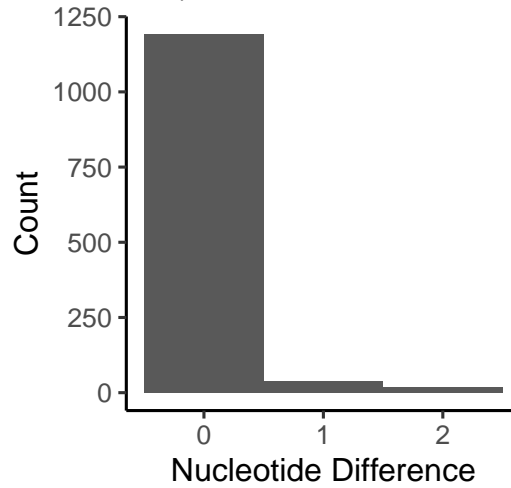
IGHV4-59*13

1764 sequences assigned
4 (0.2%) exact matches, in which:
4 unique CDR3
3 unique J



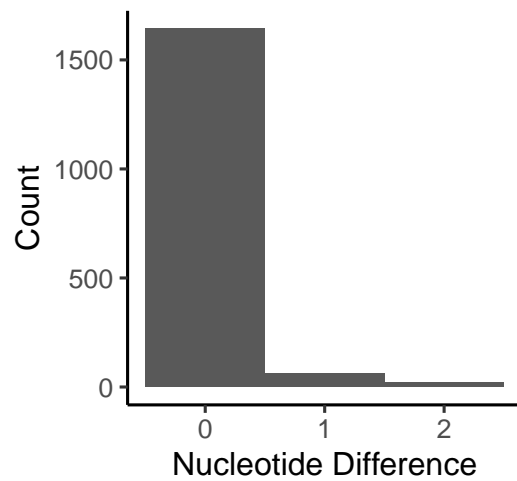
IGHV5-51*01_03

1248 sequences assigned
1191 (95.4%) exact matches, in which:
1188 unique CDR3
6 unique J



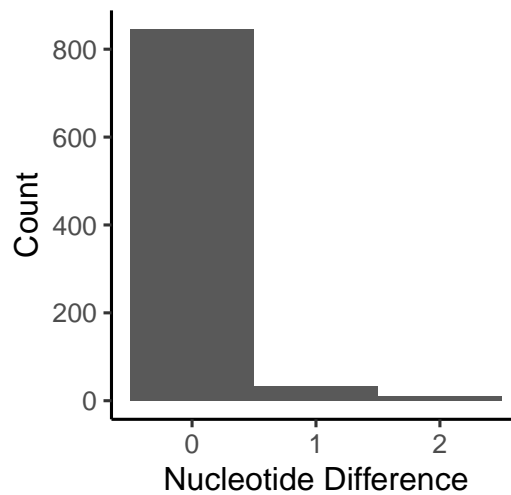
IGHV4-61*01

1723 sequences assigned
1643 (95.4%) exact matches, in which:
1559 unique CDR3
6 unique J



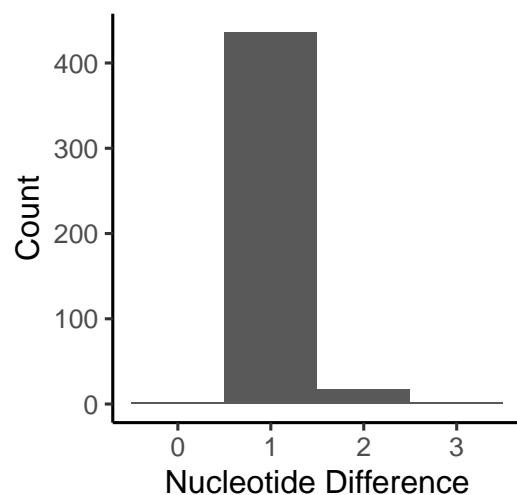
IGHV6-1*01_02

890 sequences assigned
846 (95.1%) exact matches, in which:
839 unique CDR3
6 unique J



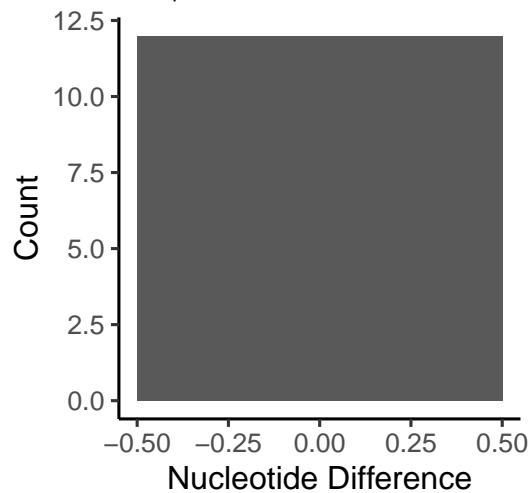
IGHV5-51*07

457 sequences assigned
2 (0.4%) exact matches, in which:
2 unique CDR3
1 unique J



IGHV7-4-1*01

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





Warning – no inferred sequences found.