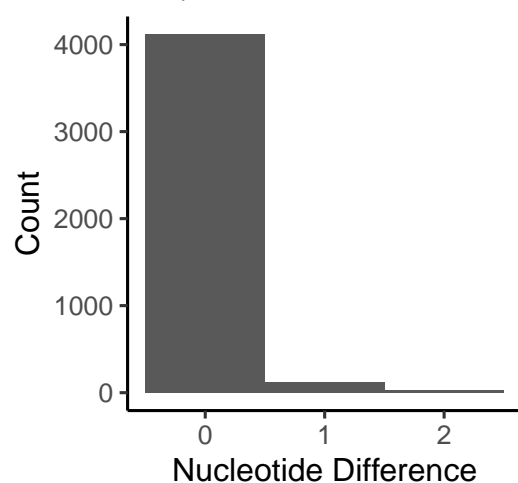


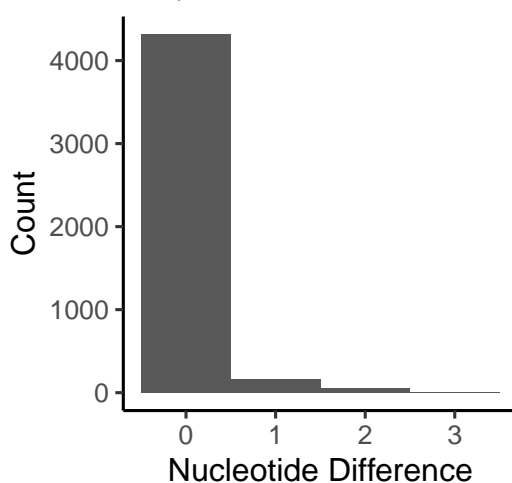
IGHV1-2*02

4271 sequences assigned
4117 (96.4%) exact matches, in which:
4098 unique CDR3
6 unique J



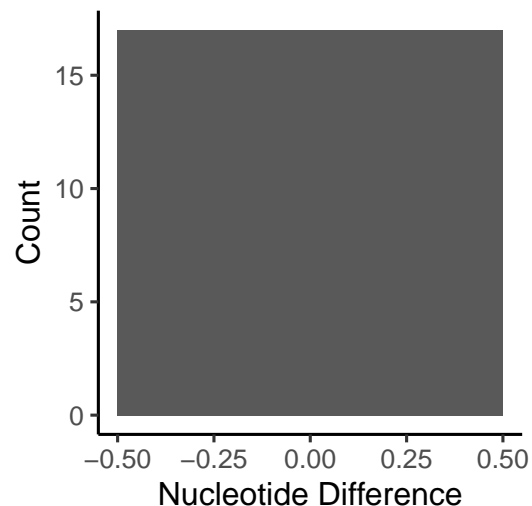
IGHV1-8*01

4539 sequences assigned
4315 (95.1%) exact matches, in which:
4299 unique CDR3
6 unique J



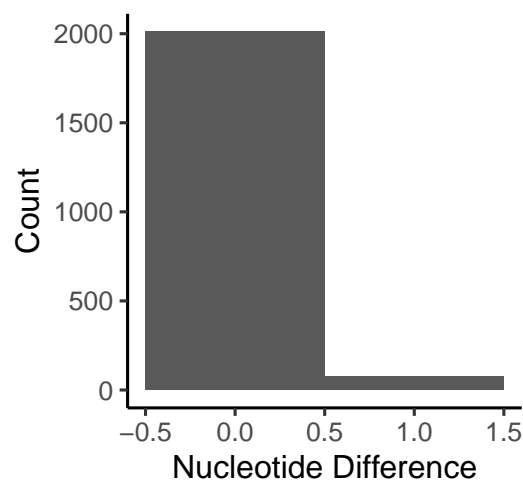
IGHV1-45*02

17 sequences assigned
17 (100%) exact matches, in which:
17 unique CDR3
3 unique J



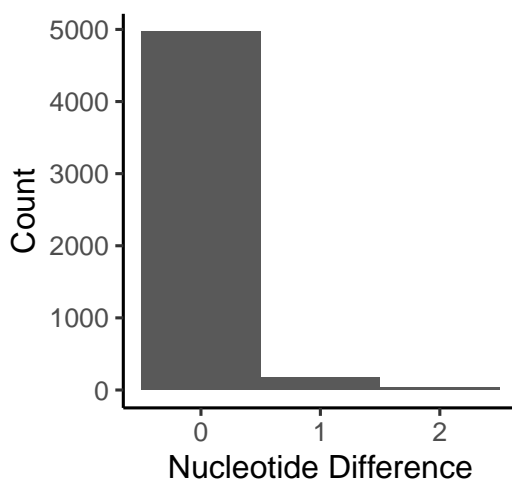
IGHV1-2*06

2085 sequences assigned
2011 (96.5%) exact matches, in which:
2005 unique CDR3
6 unique J



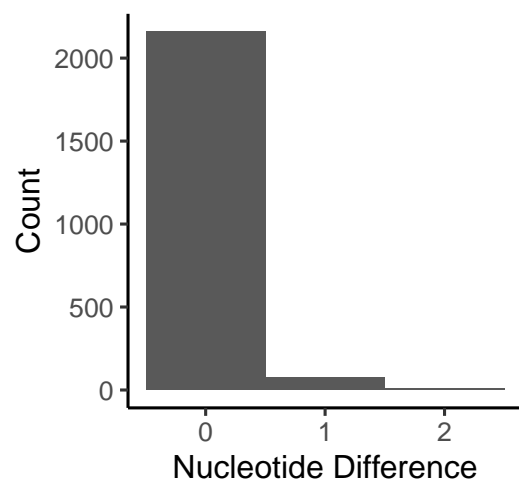
IGHV1-18*01

5176 sequences assigned
4968 (96%) exact matches, in which:
4951 unique CDR3
6 unique J



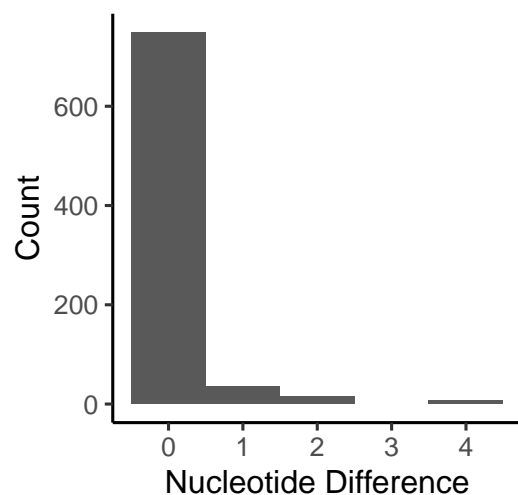
IGHV1-46*01

2246 sequences assigned
2159 (96.1%) exact matches, in which:
2150 unique CDR3
6 unique J



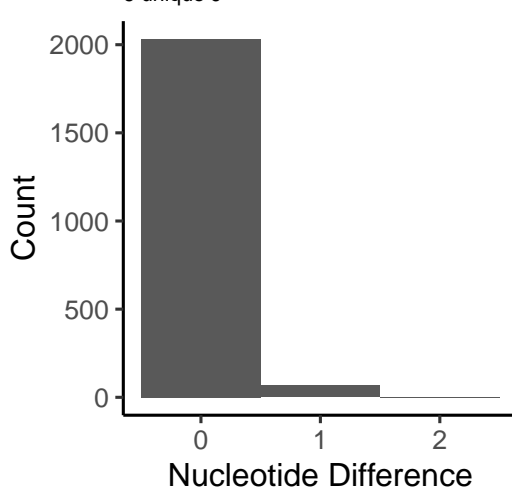
IGHV1-3*01_05

807 sequences assigned
749 (92.8%) exact matches, in which:
745 unique CDR3
6 unique J



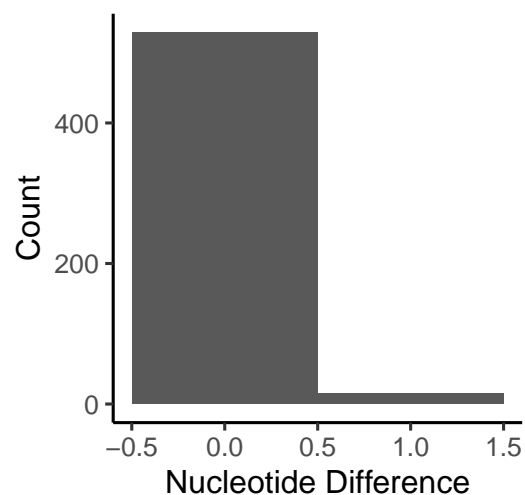
IGHV1-24*01

2100 sequences assigned
2032 (96.8%) exact matches, in which:
2023 unique CDR3
6 unique J



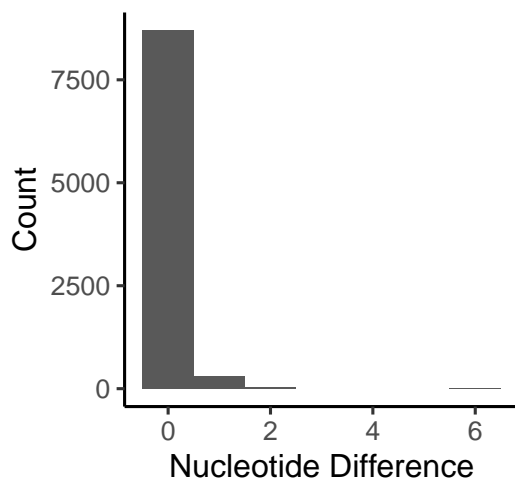
IGHV1-58*01_03

544 sequences assigned
529 (97.2%) exact matches, in which:
528 unique CDR3
6 unique J



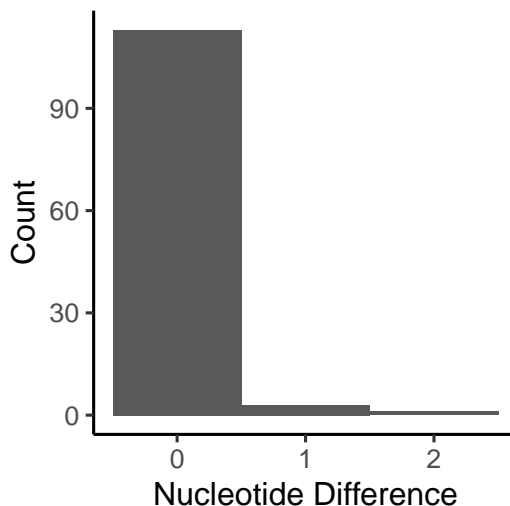
IGHV1-69*01_12_13

9038 sequences assigned
8699 (96.2%) exact matches, in which:
8679 unique CDR3
6 unique J



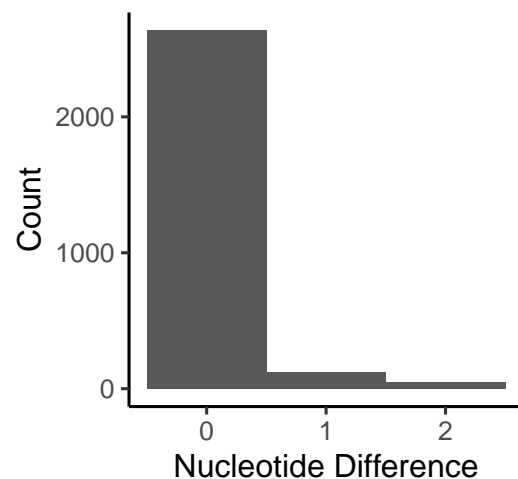
IGHV2-26*01

117 sequences assigned
113 (96.6%) exact matches, in which:
113 unique CDR3
5 unique J



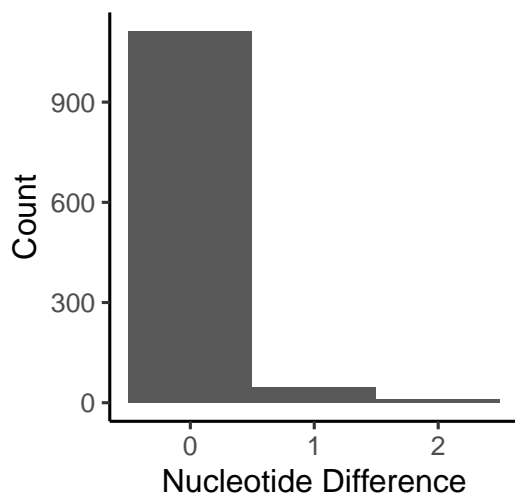
IGHV3-7*01

2809 sequences assigned
2636 (93.8%) exact matches, in which:
2514 unique CDR3
6 unique J



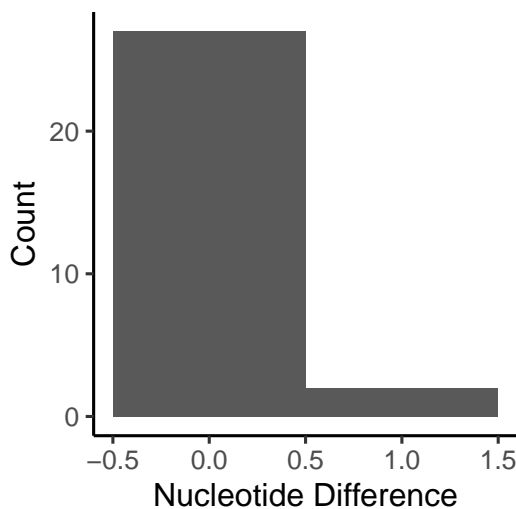
IGHV2-5*01

1169 sequences assigned
1113 (95.2%) exact matches, in which:
1104 unique CDR3
6 unique J



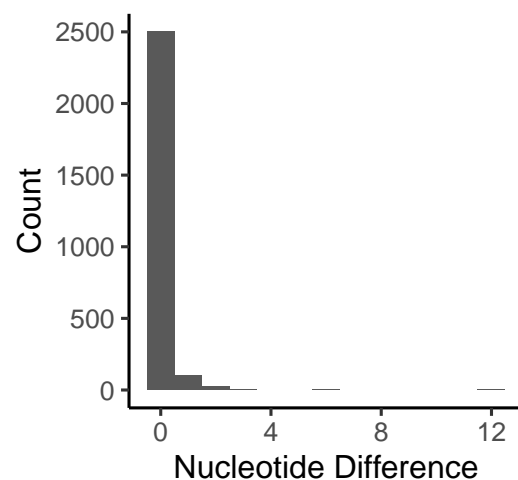
IGHV2-26*04

29 sequences assigned
27 (93.1%) exact matches, in which:
27 unique CDR3
4 unique J



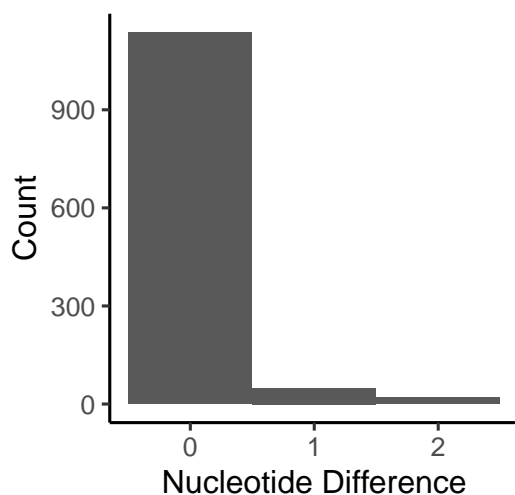
IGHV3-9*01

2629 sequences assigned
2501 (95.1%) exact matches, in which:
2423 unique CDR3
6 unique J



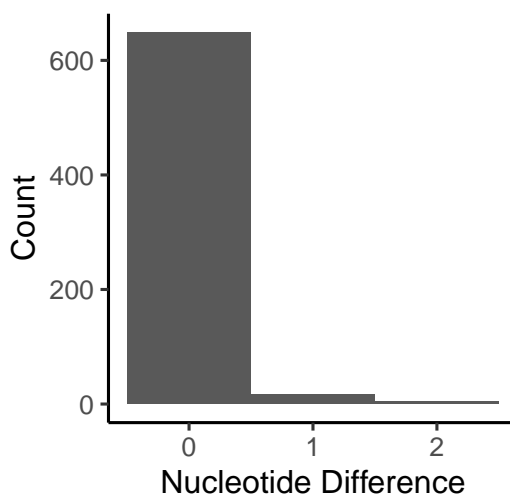
IGHV2-5*02

1207 sequences assigned
1137 (94.2%) exact matches, in which:
1130 unique CDR3
6 unique J



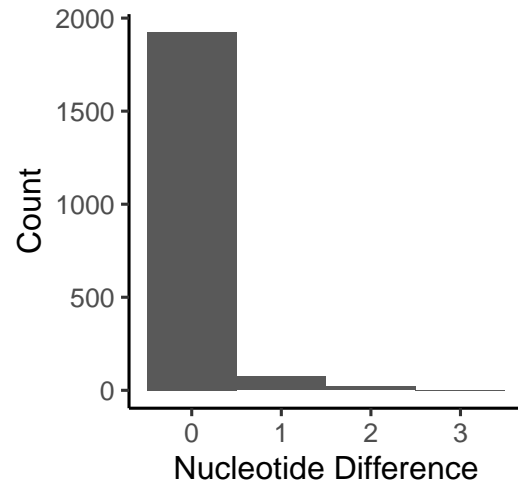
IGHV2-70*01

670 sequences assigned
649 (96.9%) exact matches, in which:
644 unique CDR3
6 unique J



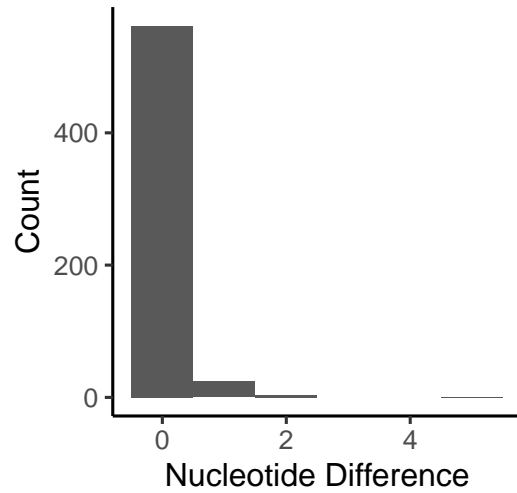
IGHV3-11*01

2022 sequences assigned
1925 (95.2%) exact matches, in which:
1836 unique CDR3
6 unique J



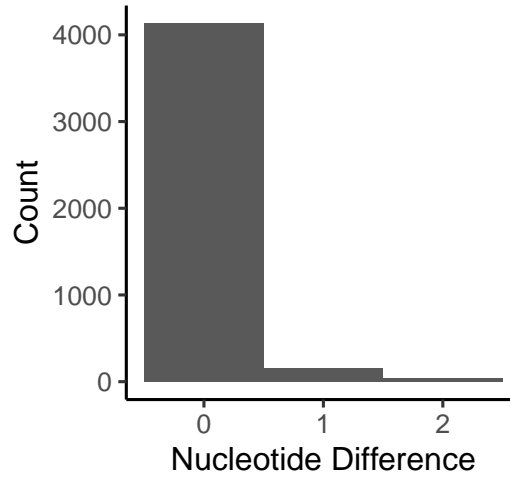
IGHV3-13*01

591 sequences assigned
562 (95.1%) exact matches, in which:
532 unique CDR3
5 unique J



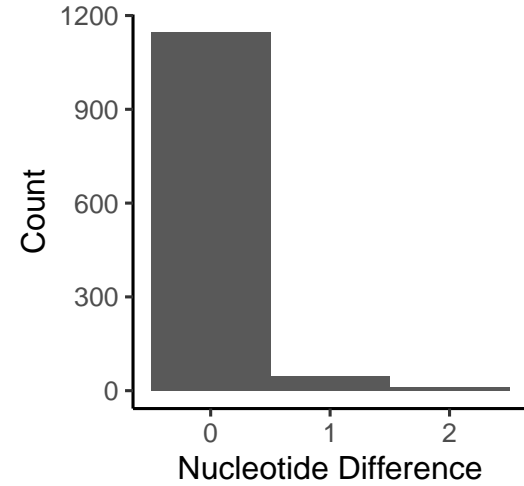
IGHV3-21*01_02

4327 sequences assigned
4132 (95.5%) exact matches, in which:
3902 unique CDR3
6 unique J



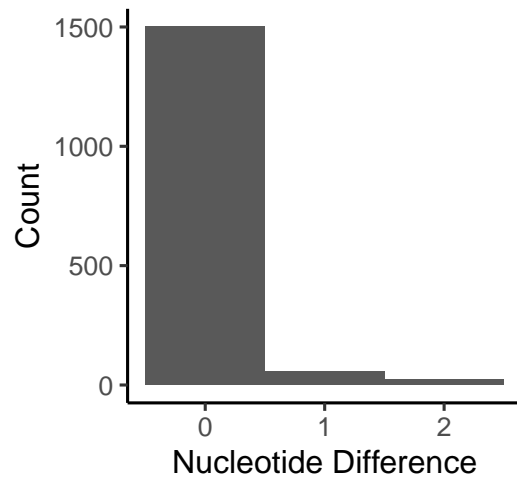
IGHV3-33*01

1203 sequences assigned
1146 (95.3%) exact matches, in which:
1113 unique CDR3
6 unique J



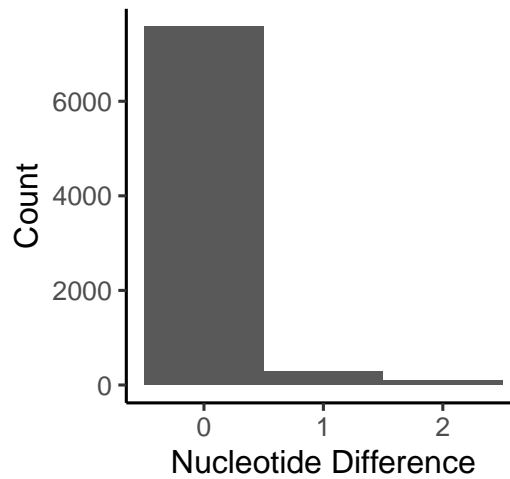
IGHV3-15*01_02

1578 sequences assigned
1501 (95.1%) exact matches, in which:
1458 unique CDR3
6 unique J



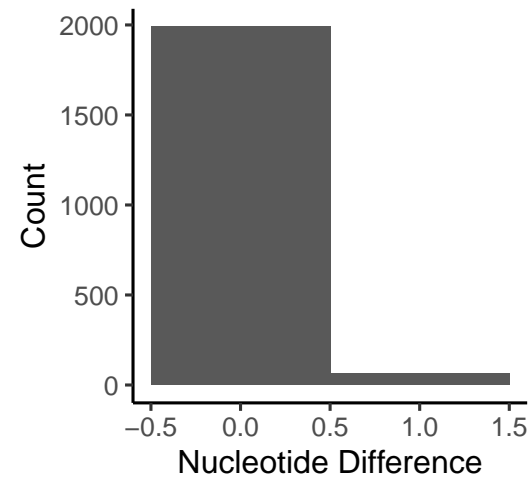
IGHV3-23*01_04

7960 sequences assigned
7576 (95.2%) exact matches, in which:
7008 unique CDR3
6 unique J



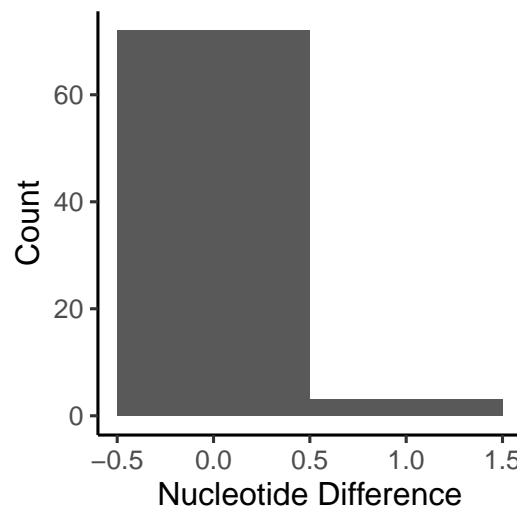
IGHV3-33*08

2054 sequences assigned
1990 (96.9%) exact matches, in which:
1909 unique CDR3
6 unique J



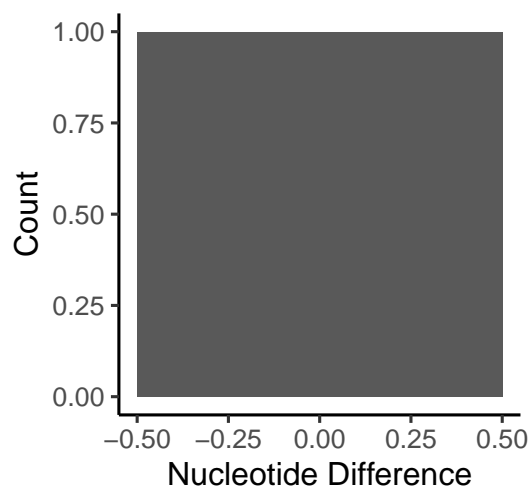
IGHV3-20*01_02

75 sequences assigned
72 (96%) exact matches, in which:
72 unique CDR3
6 unique J



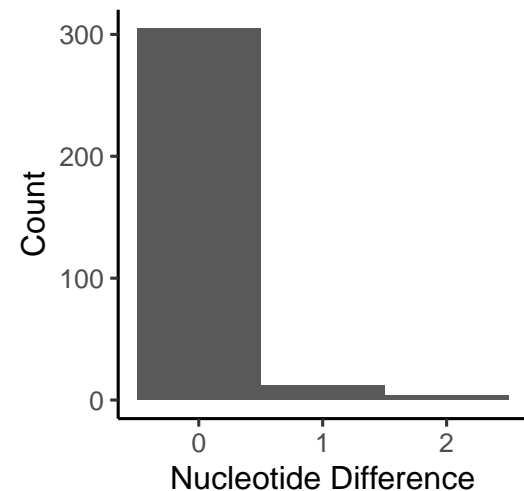
IGHV3-30-3*01

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



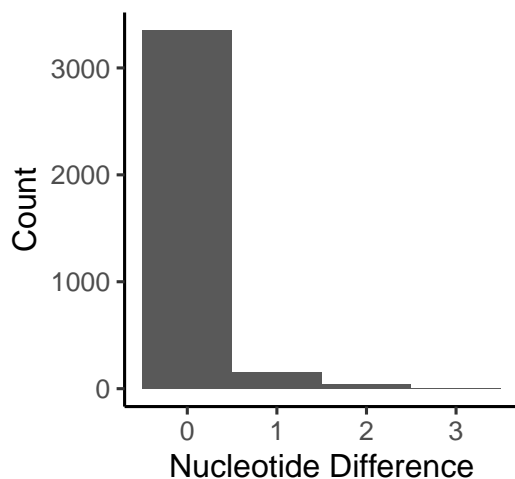
IGHV3-43*01

321 sequences assigned
305 (95%) exact matches, in which:
294 unique CDR3
6 unique J



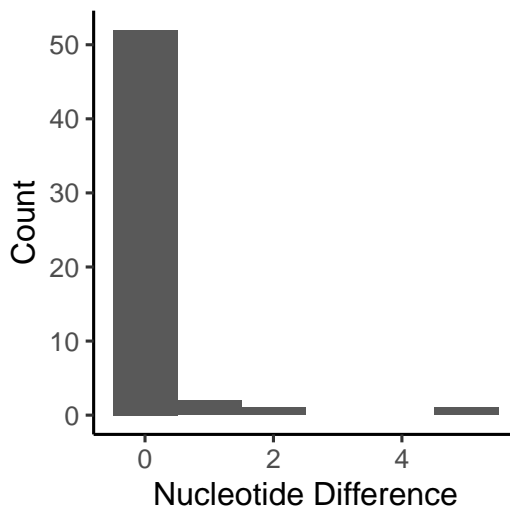
IGHV3-48*02

3543 sequences assigned
3351 (94.6%) exact matches, in which:
3160 unique CDR3
6 unique J



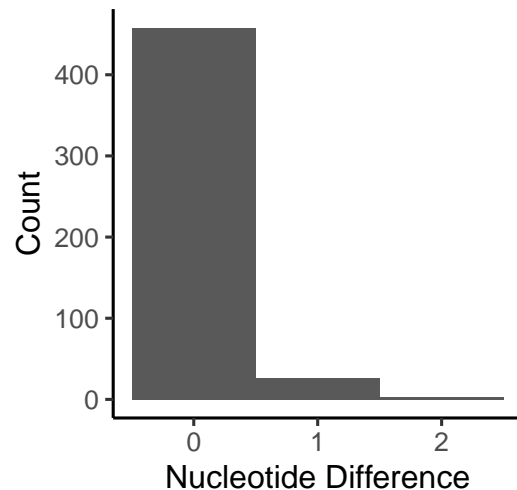
IGHV3-64*02_07

56 sequences assigned
52 (92.9%) exact matches, in which:
47 unique CDR3
5 unique J



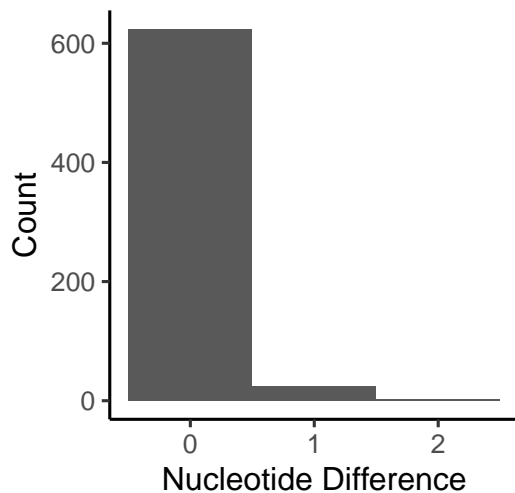
IGHV3-73*01_02

487 sequences assigned
458 (94%) exact matches, in which:
428 unique CDR3
6 unique J



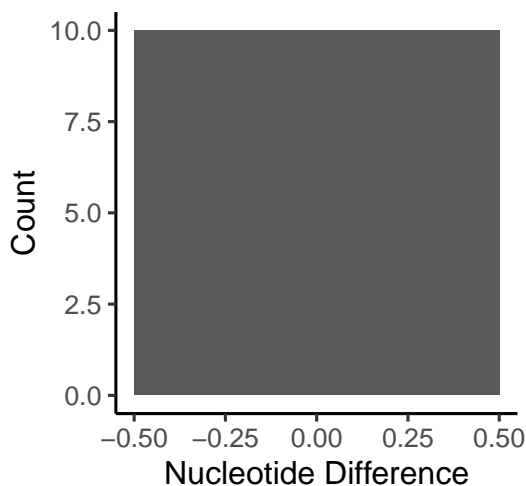
IGHV3-49*03_05

652 sequences assigned
624 (95.7%) exact matches, in which:
610 unique CDR3
6 unique J



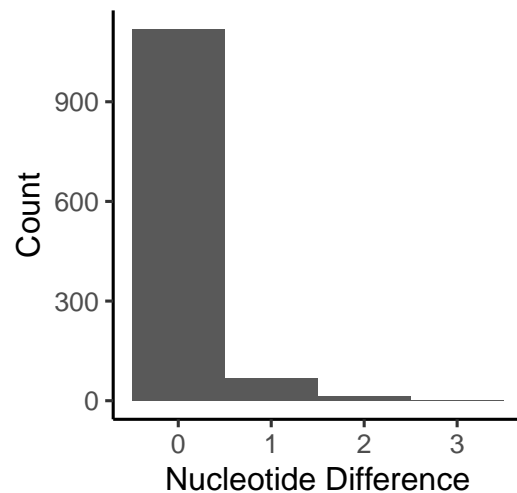
IGHV3-66*03

10 sequences assigned
10 (100%) exact matches, in which:
10 unique CDR3
4 unique J



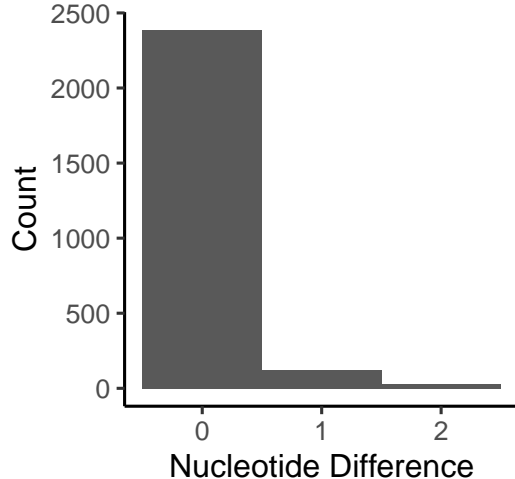
IGHV3-74*01_02

1203 sequences assigned
1119 (93%) exact matches, in which:
1050 unique CDR3
6 unique J



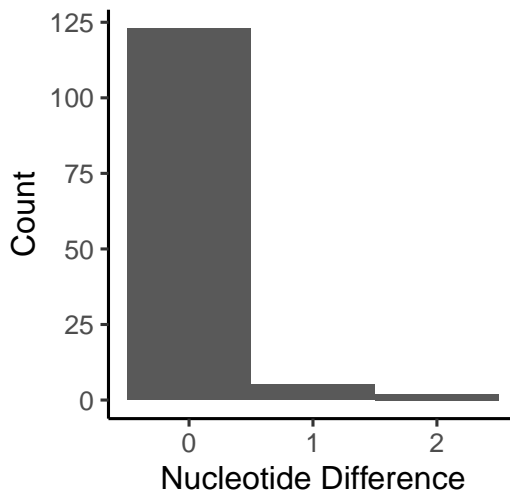
IGHV3-53*01_02

2534 sequences assigned
2386 (94.2%) exact matches, in which:
2229 unique CDR3
6 unique J



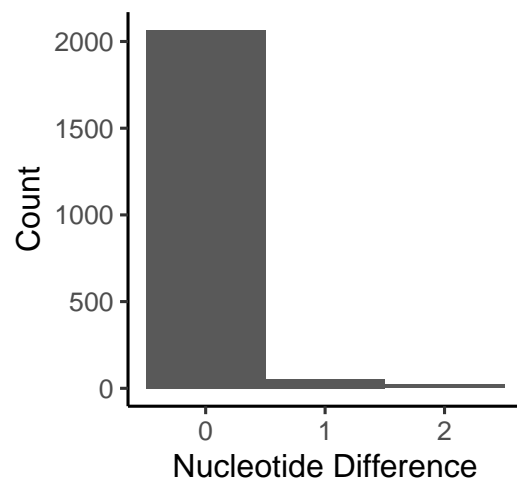
IGHV3-72*01

130 sequences assigned
123 (94.6%) exact matches, in which:
118 unique CDR3
5 unique J



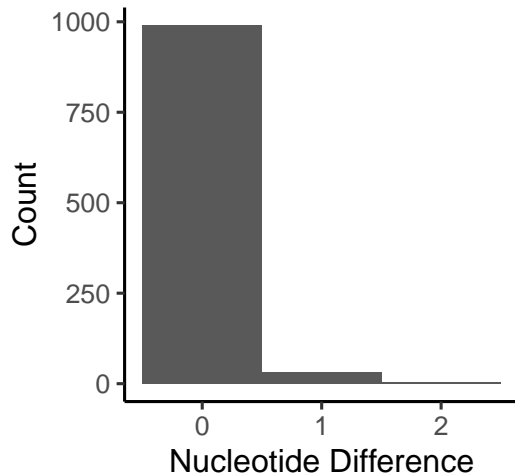
IGHV4-4*07

2143 sequences assigned
2066 (96.4%) exact matches, in which:
1934 unique CDR3
6 unique J



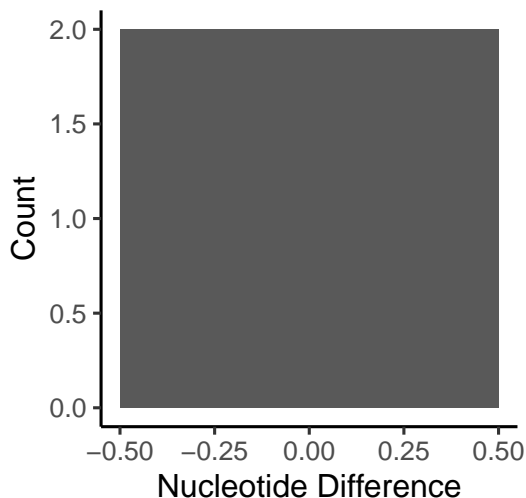
IGHV4-4*02_03

1025 sequences assigned
990 (96.6%) exact matches, in which:
961 unique CDR3
6 unique J



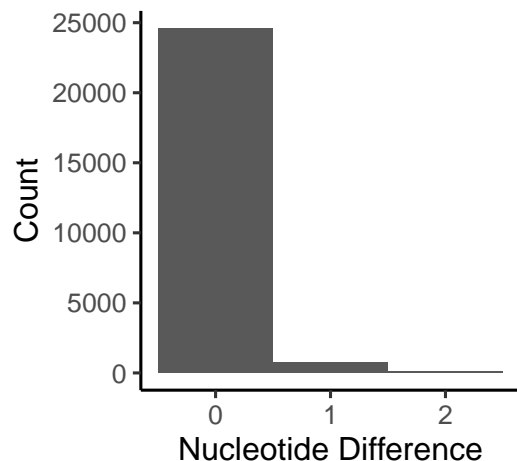
IGHV4-30-4*01

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



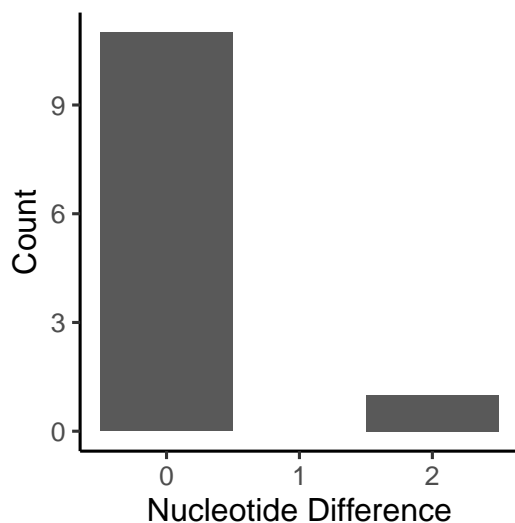
IGHV4-34*01_02

25513 sequences assigned
24610 (96.5%) exact matches, in which:
22708 unique CDR3
6 unique J



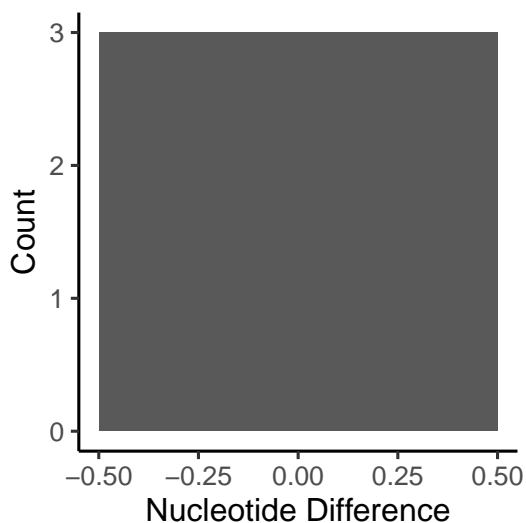
IGHV4-28*01_07

12 sequences assigned
11 (91.7%) exact matches, in which:
11 unique CDR3
4 unique J



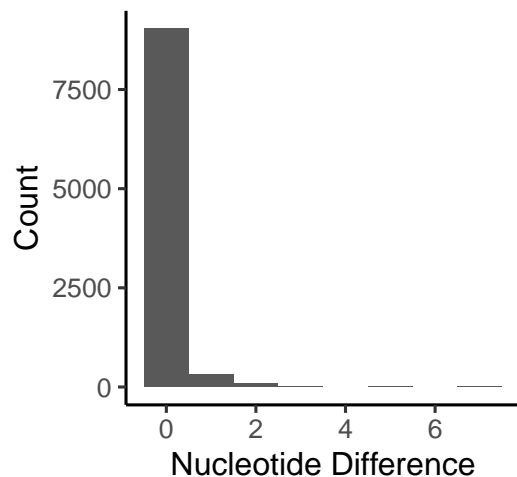
IGHV4-30-2*01

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



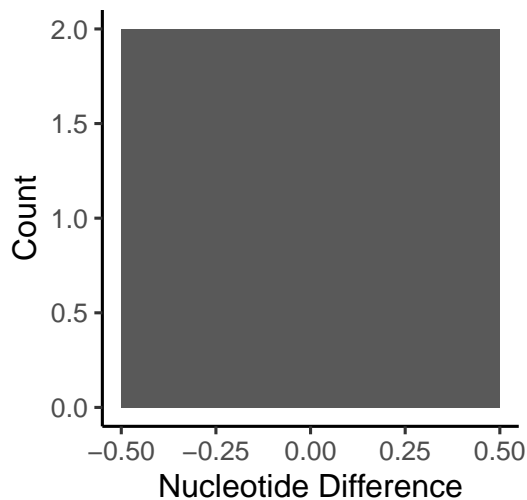
IGHV4-39*02_C258G

9426 sequences assigned
9033 (95.8%) exact matches, in which:
8656 unique CDR3
6 unique J



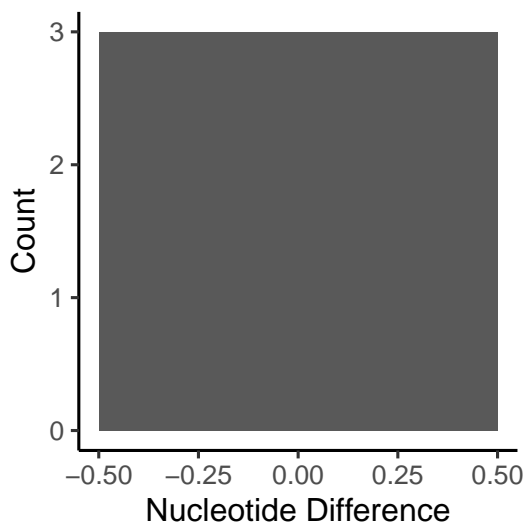
IGHV4-28*02_05

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



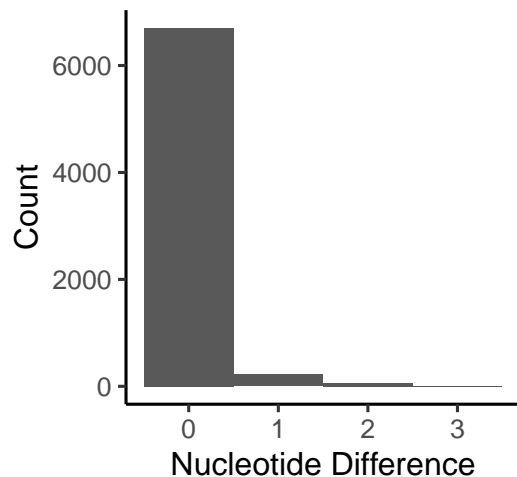
IGHV4-31*02

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



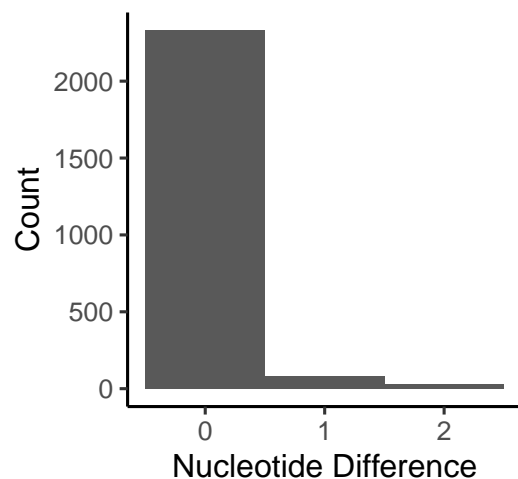
IGHV4-59*02_G88A

6990 sequences assigned
6701 (95.9%) exact matches, in which:
6340 unique CDR3
6 unique J



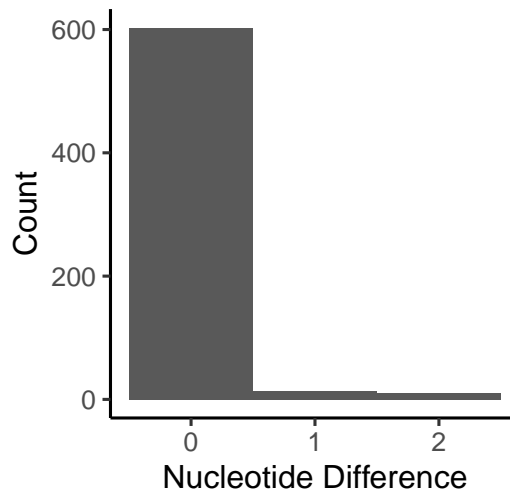
IGHV4-61*01

2443 sequences assigned
2330 (95.4%) exact matches, in which:
2223 unique CDR3
6 unique J



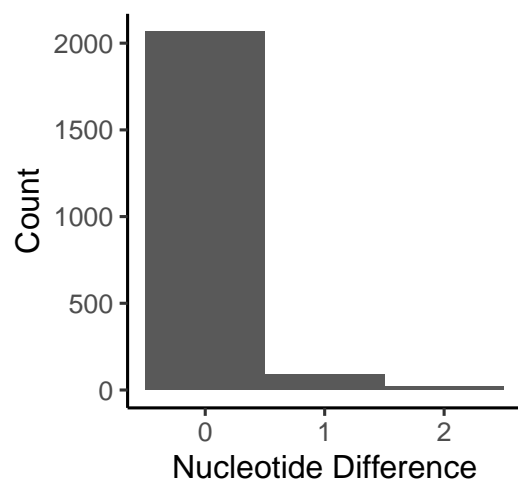
IGHV7-4-1*02

627 sequences assigned
603 (96.2%) exact matches, in which:
602 unique CDR3
6 unique J



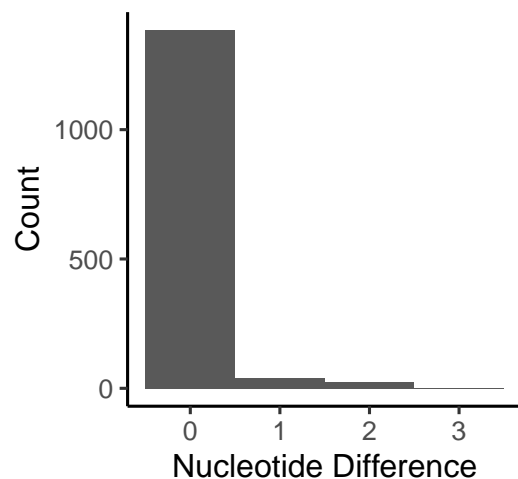
IGHV5-51*07_A128G

2173 sequences assigned
2066 (95.1%) exact matches, in which:
2060 unique CDR3
6 unique J



IGHV6-1*01_02

1451 sequences assigned
1385 (95.5%) exact matches, in which:
1379 unique CDR3
6 unique J





Warning – no inferred sequences found.