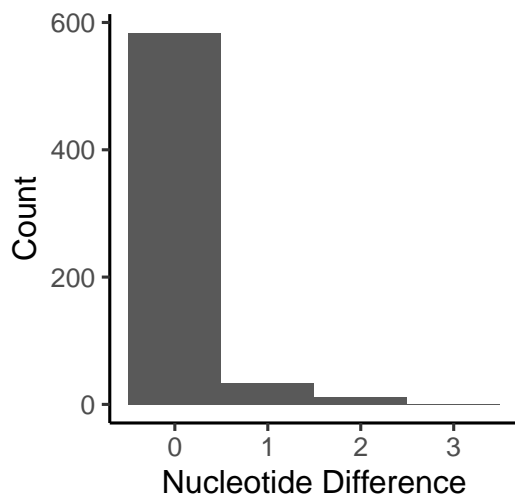


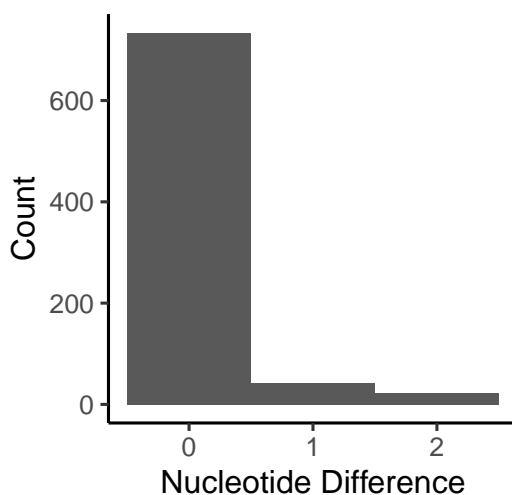
IGHV1-2*04

630 sequences assigned
584 (92.7%) exact matches, in which:
584 unique CDR3
6 unique J



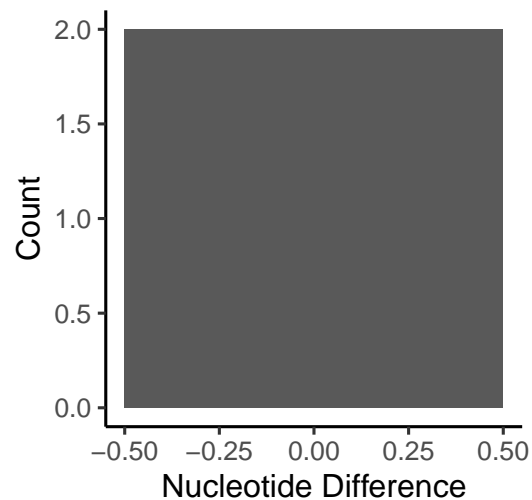
IGHV1-18*01

798 sequences assigned
734 (92%) exact matches, in which:
734 unique CDR3
6 unique J



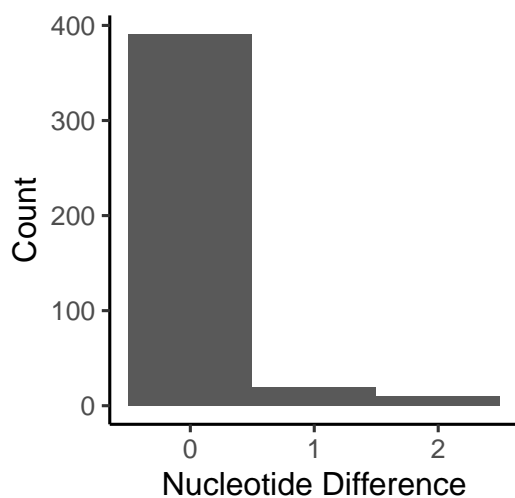
IGHV1-45*02

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



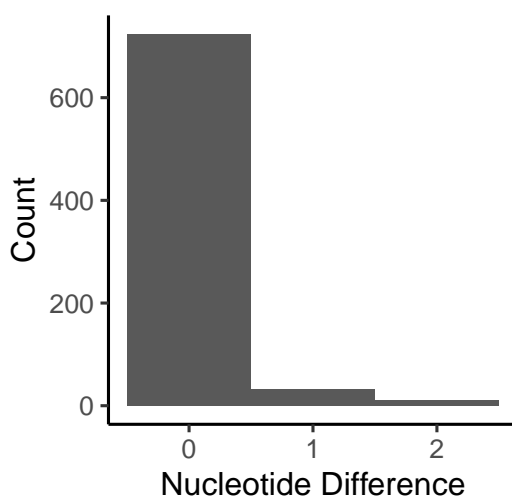
IGHV1-3*01_05

420 sequences assigned
391 (93.1%) exact matches, in which:
389 unique CDR3
6 unique J



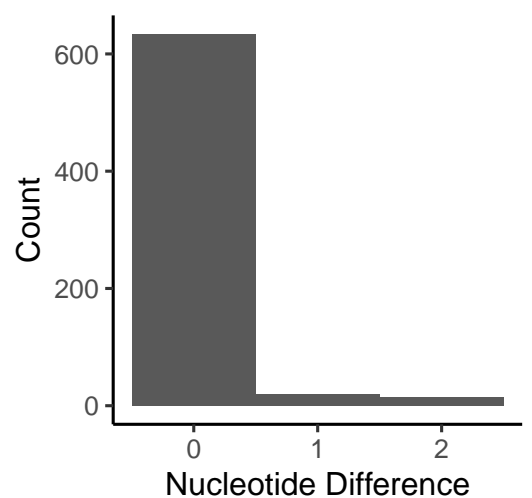
IGHV1-18*04

767 sequences assigned
724 (94.4%) exact matches, in which:
723 unique CDR3
6 unique J



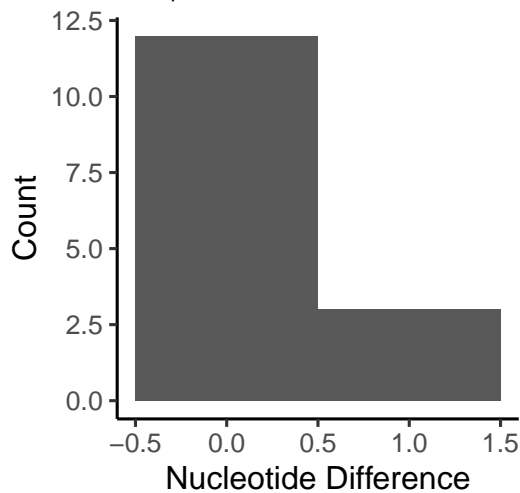
IGHV1-46*01

669 sequences assigned
634 (94.8%) exact matches, in which:
633 unique CDR3
6 unique J



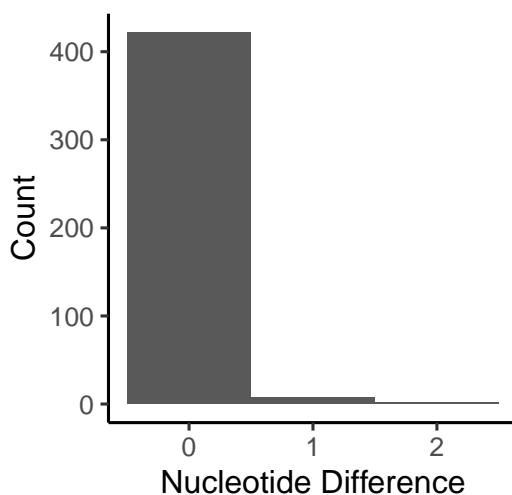
IGHV1-8*01

15 sequences assigned
12 (80%) exact matches, in which:
12 unique CDR3
5 unique J



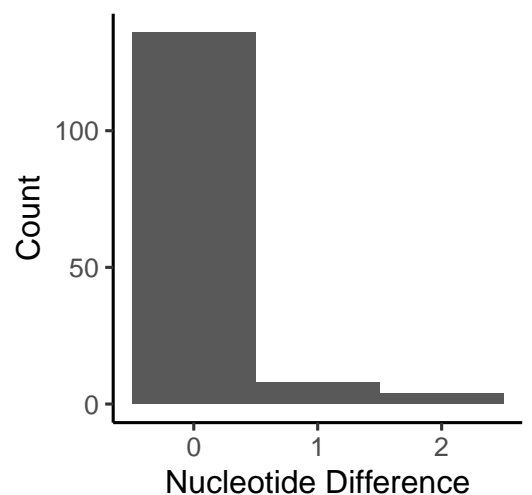
IGHV1-24*01

431 sequences assigned
422 (97.9%) exact matches, in which:
421 unique CDR3
6 unique J



IGHV1-58*01_03

148 sequences assigned
136 (91.9%) exact matches, in which:
136 unique CDR3
6 unique J



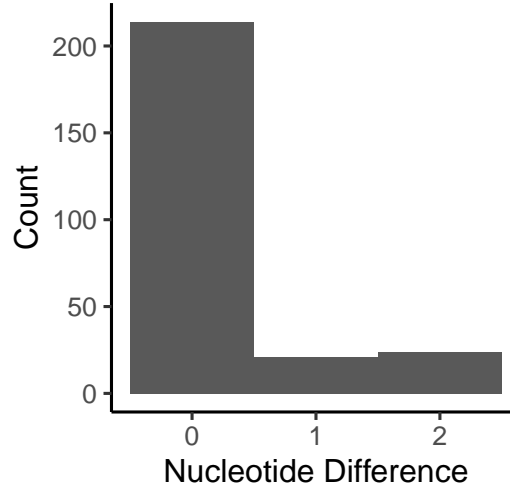
IGHV1-68*01

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



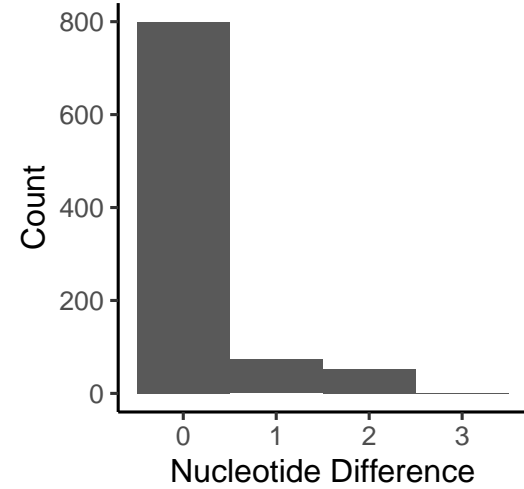
IGHV2-5*02

259 sequences assigned
214 (82.6%) exact matches, in which:
214 unique CDR3
6 unique J



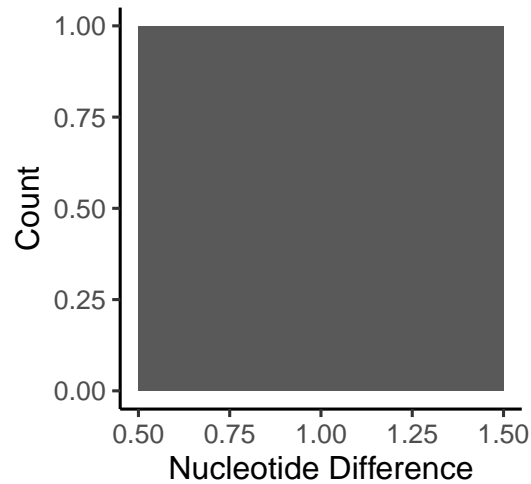
IGHV3-7*03

926 sequences assigned
800 (86.4%) exact matches, in which:
788 unique CDR3
6 unique J



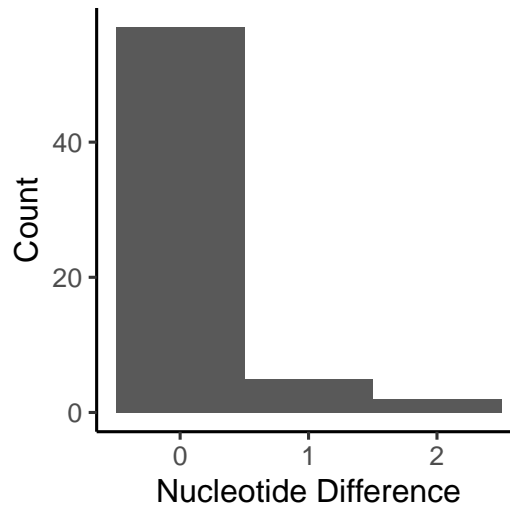
IGHV1-69-2*01

1 sequences assigned
No exact matches.



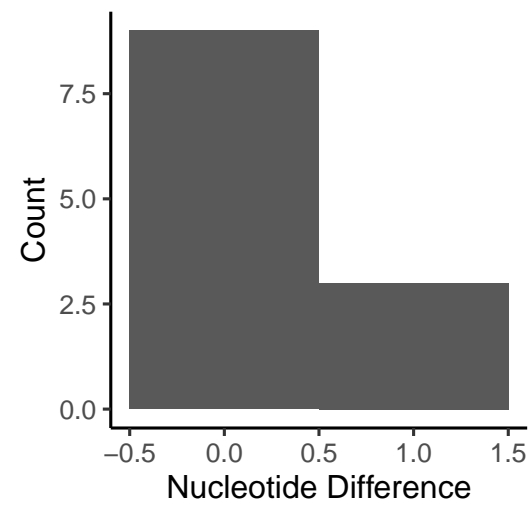
IGHV2-26*01

64 sequences assigned
57 (89.1%) exact matches, in which:
57 unique CDR3
5 unique J



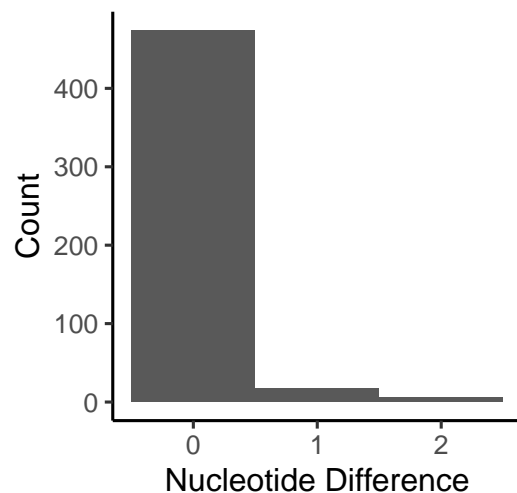
IGHV3-9*01

12 sequences assigned
9 (75%) exact matches, in which:
9 unique CDR3
3 unique J



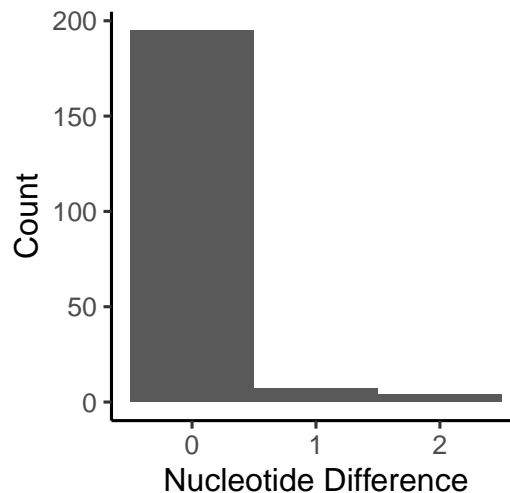
IGHV1-69*06_14

497 sequences assigned
474 (95.4%) exact matches, in which:
473 unique CDR3
6 unique J



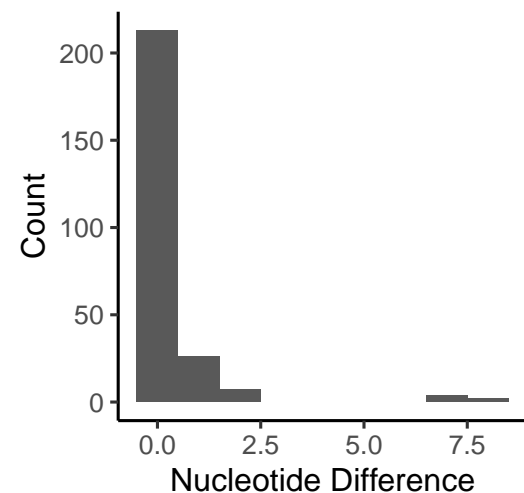
IGHV2-70*01

206 sequences assigned
195 (94.7%) exact matches, in which:
194 unique CDR3
5 unique J



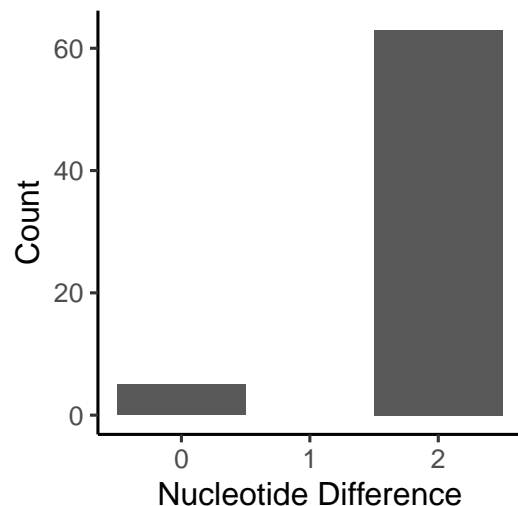
IGHV3-11*06

252 sequences assigned
213 (84.5%) exact matches, in which:
210 unique CDR3
6 unique J



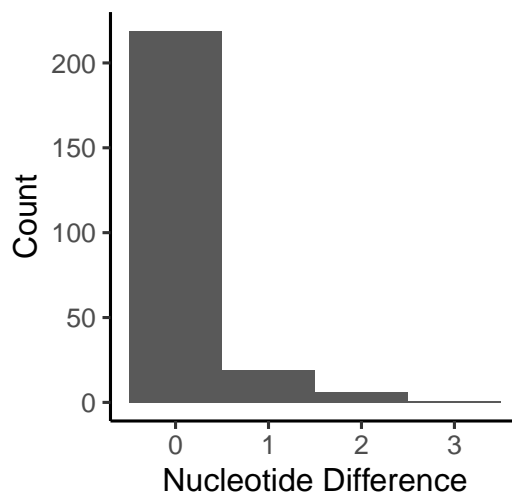
IGHV3-13*01

68 sequences assigned
5 (7.4%) exact matches, in which:
5 unique CDR3
4 unique J



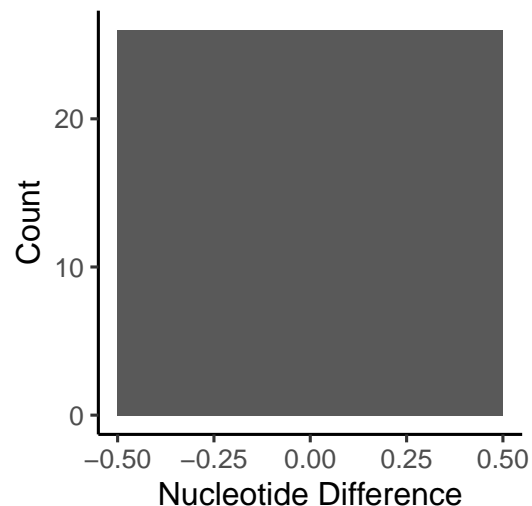
IGHV3-15*01_02

245 sequences assigned
219 (89.4%) exact matches, in which:
217 unique CDR3
6 unique J



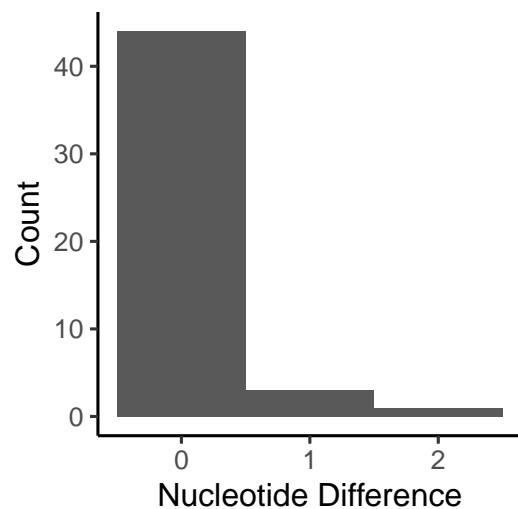
IGHV3-20*03_04

26 sequences assigned
26 (100%) exact matches, in which:
26 unique CDR3
4 unique J



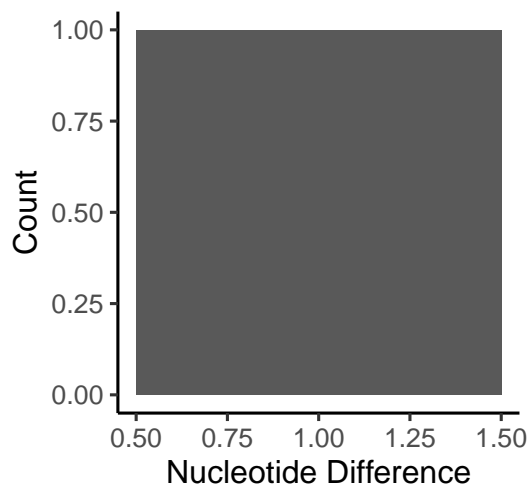
IGHV3-13*05

48 sequences assigned
44 (91.7%) exact matches, in which:
44 unique CDR3
4 unique J



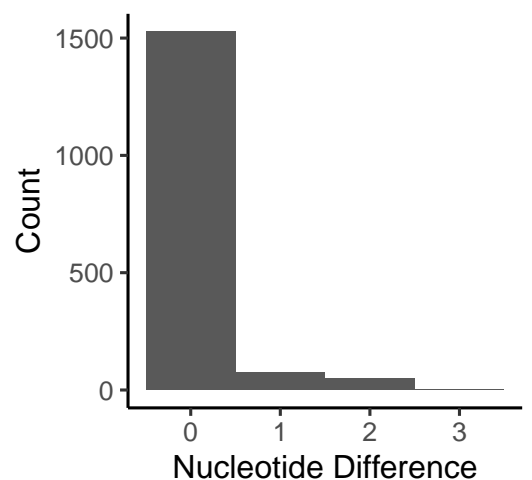
IGHV3-19*01

1 sequences assigned
No exact matches.



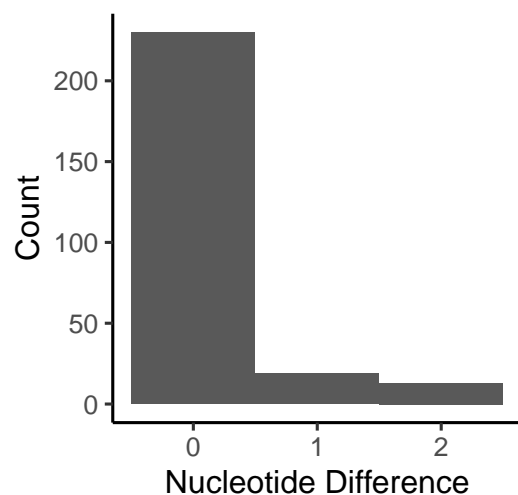
IGHV3-21*01_02

1653 sequences assigned
1527 (92.4%) exact matches, in which:
1498 unique CDR3
6 unique J



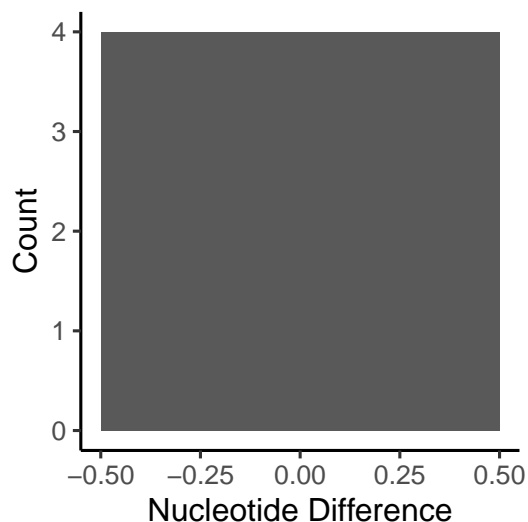
IGHV3-15*07

262 sequences assigned
230 (87.8%) exact matches, in which:
228 unique CDR3
6 unique J



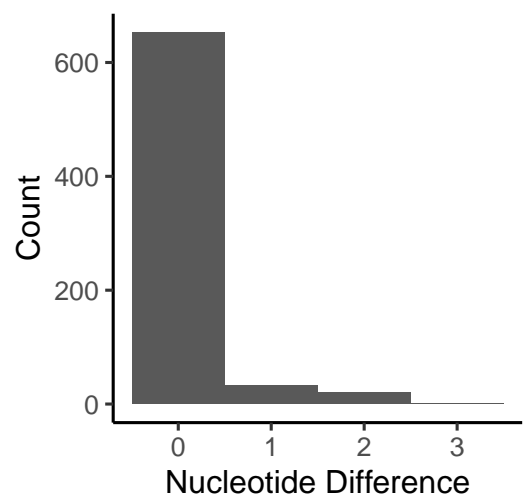
IGHV3-20*01_02

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



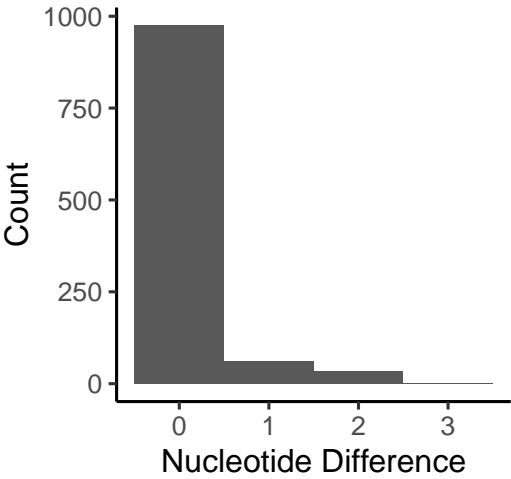
IGHV3-30-3*01

706 sequences assigned
653 (92.5%) exact matches, in which:
645 unique CDR3
6 unique J



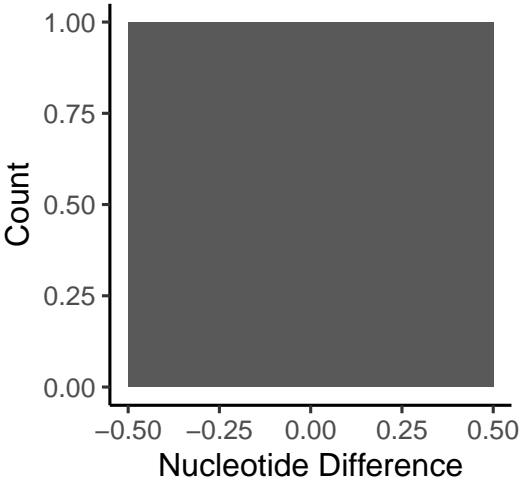
IGHV3-33*01

1069 sequences assigned
975 (91.2%) exact matches, in which:
966 unique CDR3
6 unique J



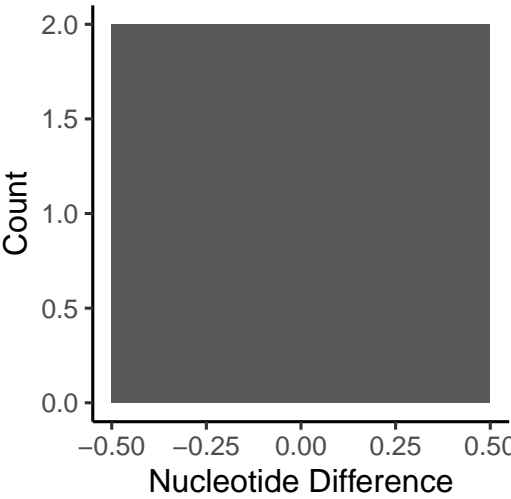
IGHV3-47*02

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



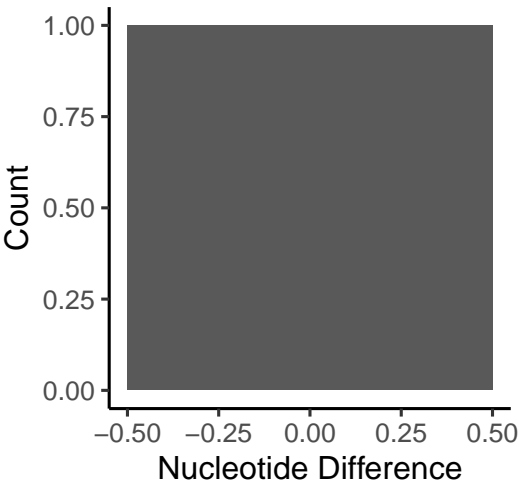
IGHV3-52*01_03

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



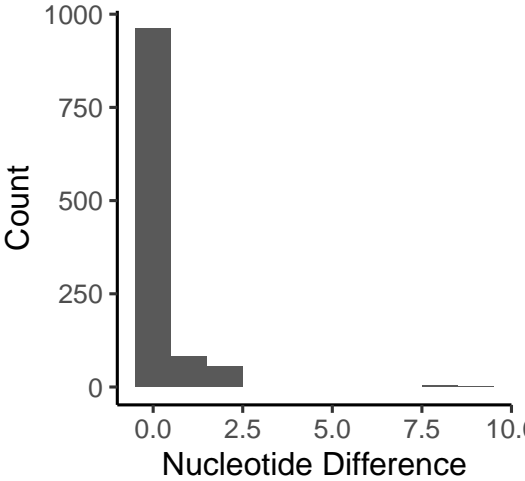
IGHV3-35*01

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



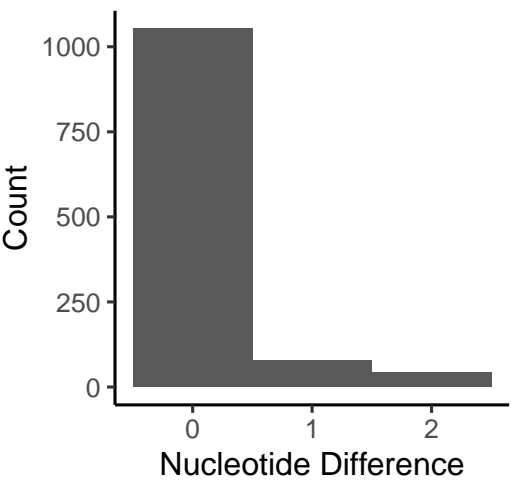
IGHV3-48*02

1100 sequences assigned
961 (87.4%) exact matches, in which:
944 unique CDR3
6 unique J



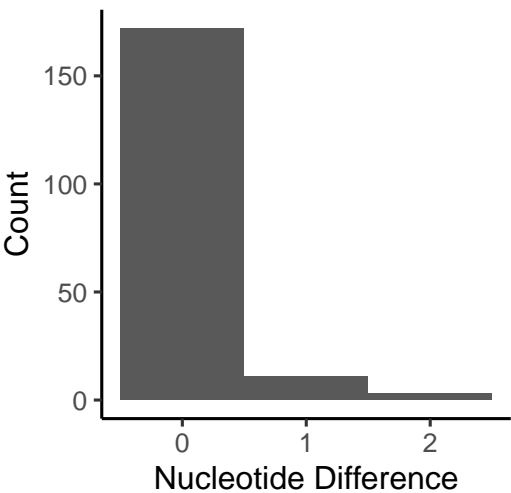
IGHV3-53*01_02

1174 sequences assigned
1053 (89.7%) exact matches, in which:
1036 unique CDR3
6 unique J



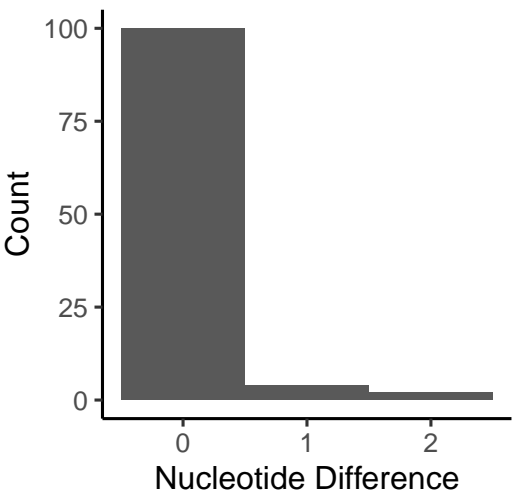
IGHV3-43*01

186 sequences assigned
172 (92.5%) exact matches, in which:
172 unique CDR3
6 unique J



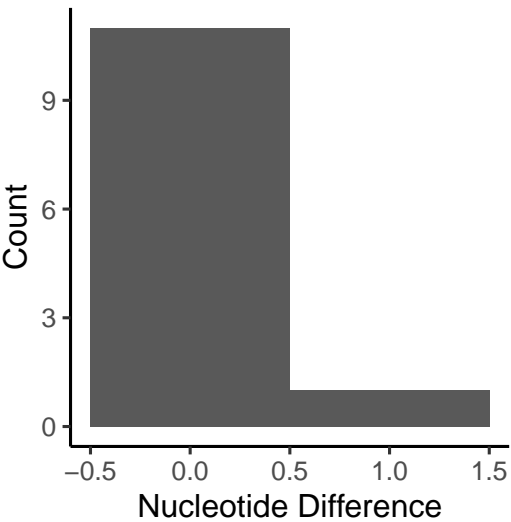
IGHV3-49*03_05

106 sequences assigned
100 (94.3%) exact matches, in which:
100 unique CDR3
4 unique J



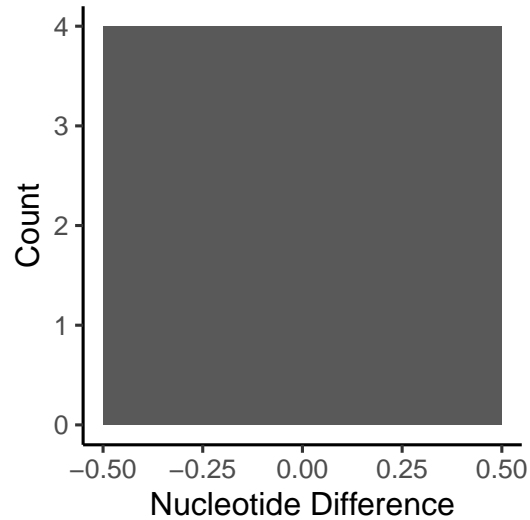
IGHV3-64*02_07

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



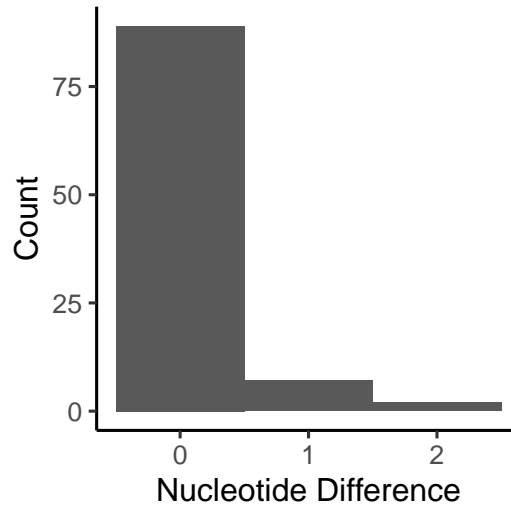
IGHV3-66*03

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



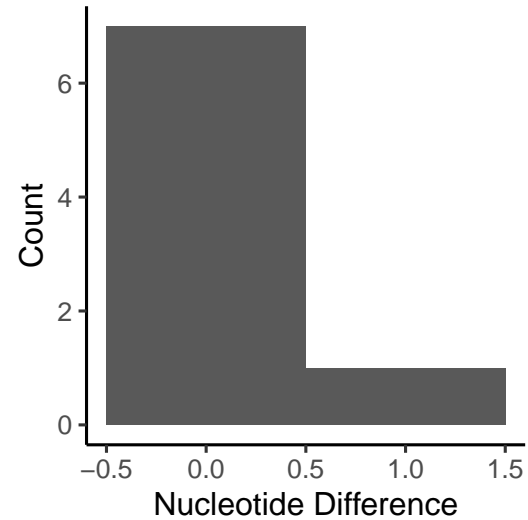
IGHV3-73*01_02

98 sequences assigned
89 (90.8%) exact matches, in which:
89 unique CDR3
5 unique J



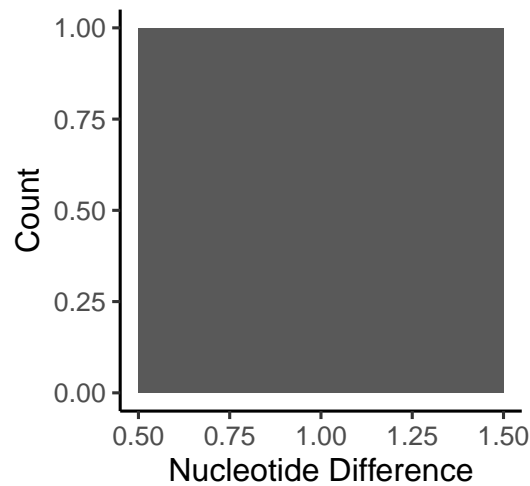
IGHV4-28*01_07

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
4 unique J



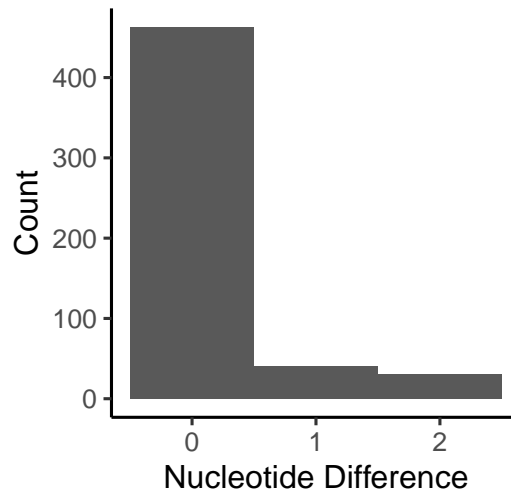
IGHV3-69-1*02

1 sequences assigned
No exact matches.



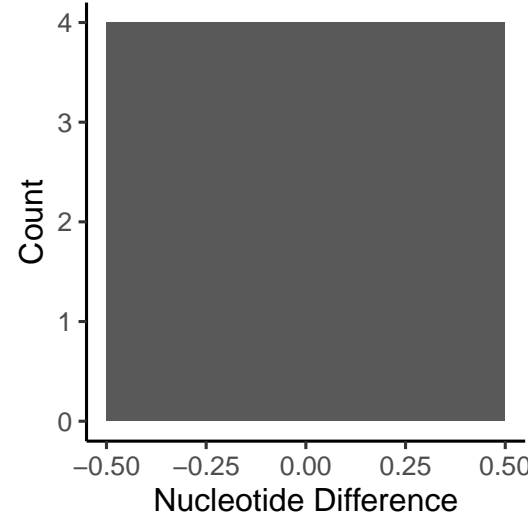
IGHV3-74*01_02

533 sequences assigned
463 (86.9%) exact matches, in which:
449 unique CDR3
6 unique J



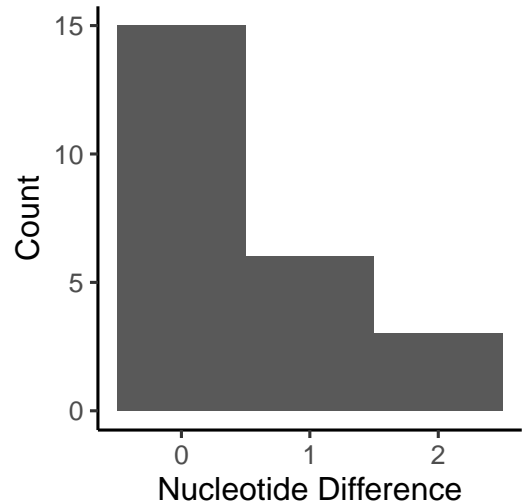
IGHV4-28*02_05

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



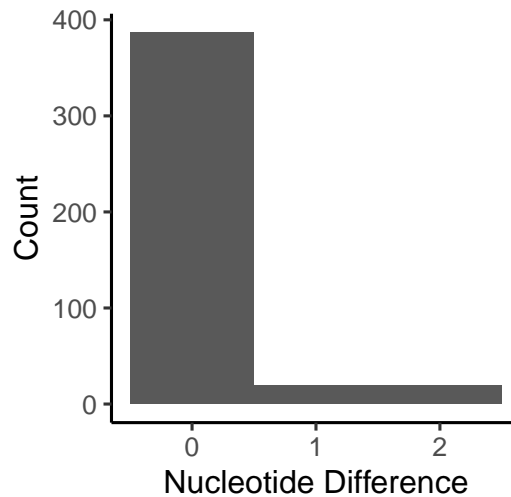
IGHV3-72*01

24 sequences assigned
15 (62.5%) exact matches, in which:
13 unique CDR3
5 unique J



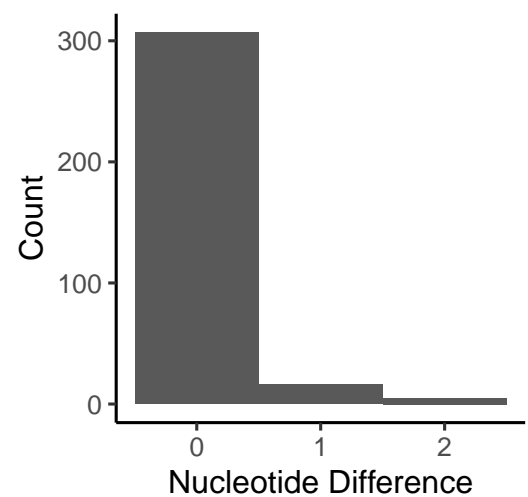
IGHV3-64D*06

425 sequences assigned
387 (91.1%) exact matches, in which:
384 unique CDR3
6 unique J



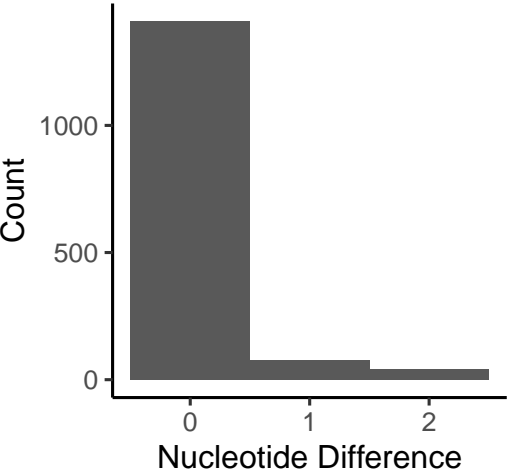
IGHV4-30-2*01

328 sequences assigned
307 (93.6%) exact matches, in which:
304 unique CDR3
6 unique J



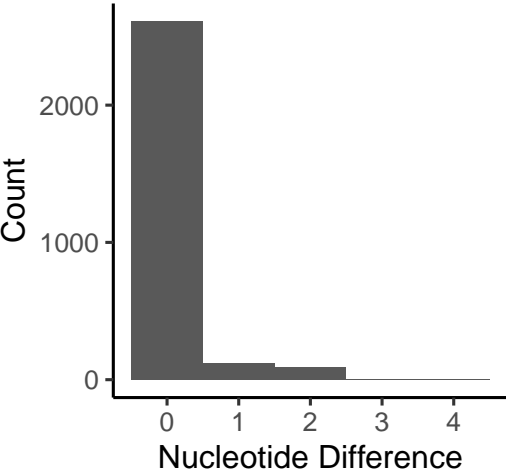
IGHV4-31*03_04

1526 sequences assigned
1409 (92.3%) exact matches, in which:
1394 unique CDR3
6 unique J



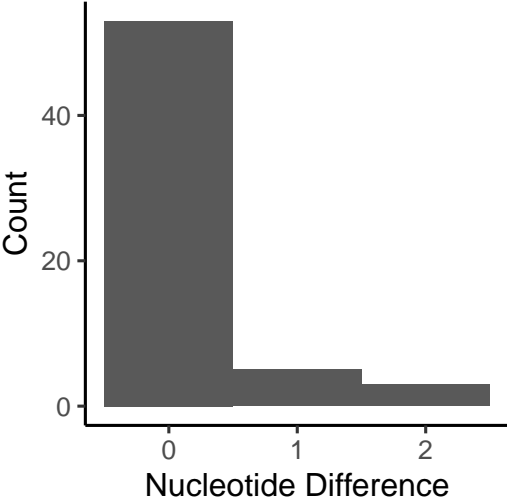
IGHV4-39*01_05

2829 sequences assigned
2610 (92.3%) exact matches, in which:
2570 unique CDR3
6 unique J



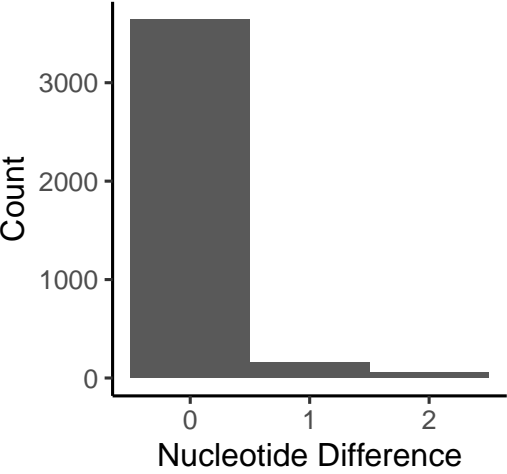
IGHV5-10-1*01_03

61 sequences assigned
53 (86.9%) exact matches, in which:
53 unique CDR3
6 unique J



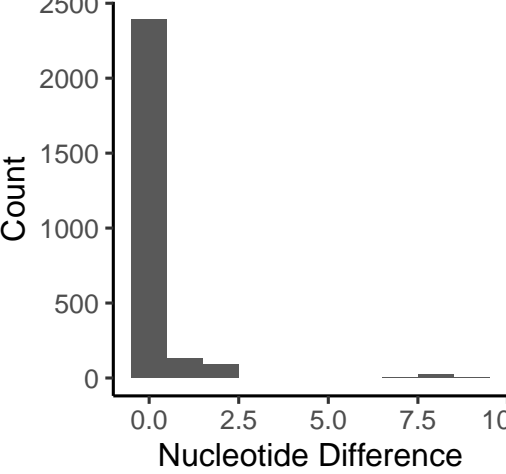
IGHV4-34*01_02

3848 sequences assigned
3640 (94.6%) exact matches, in which:
3583 unique CDR3
6 unique J



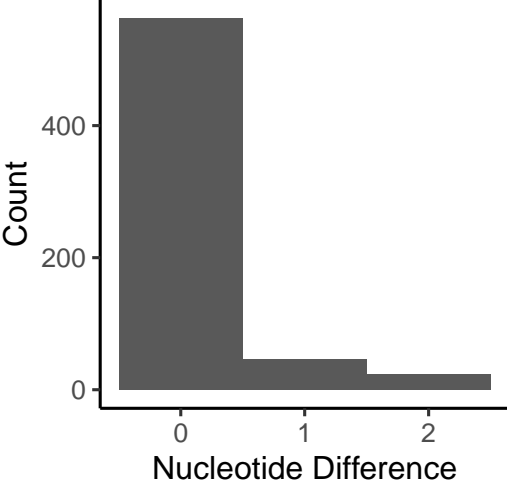
IGHV4-59*01_07

2638 sequences assigned
2390 (90.6%) exact matches, in which:
2349 unique CDR3
6 unique J



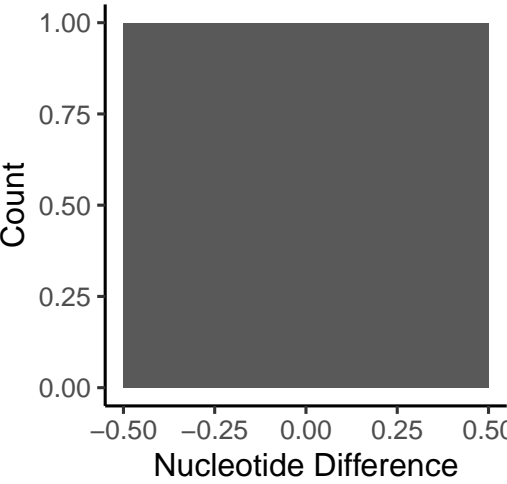
IGHV5-51*01_03

632 sequences assigned
563 (89.1%) exact matches, in which:
562 unique CDR3
6 unique J



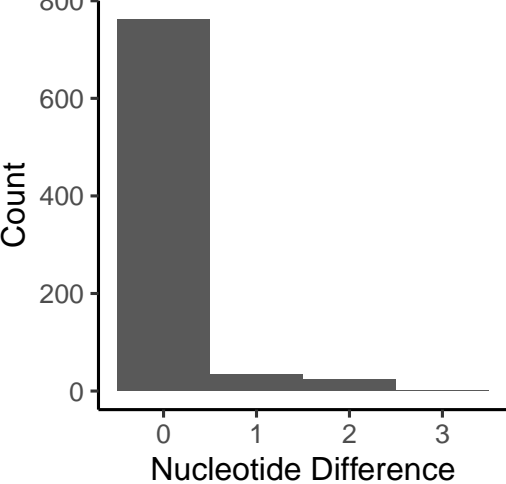
IGHV4-38-2*01

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



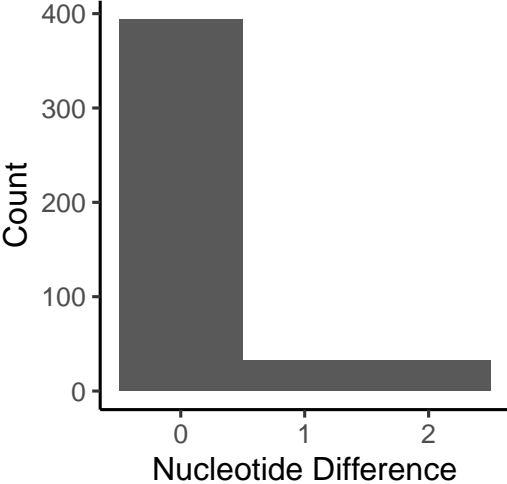
IGHV4-61*01

820 sequences assigned
762 (92.9%) exact matches, in which:
748 unique CDR3
6 unique J



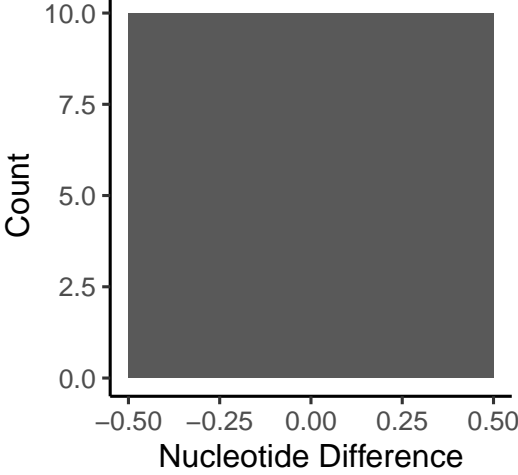
IGHV6-1*01_02

458 sequences assigned
394 (86%) exact matches, in which:
394 unique CDR3
6 unique J



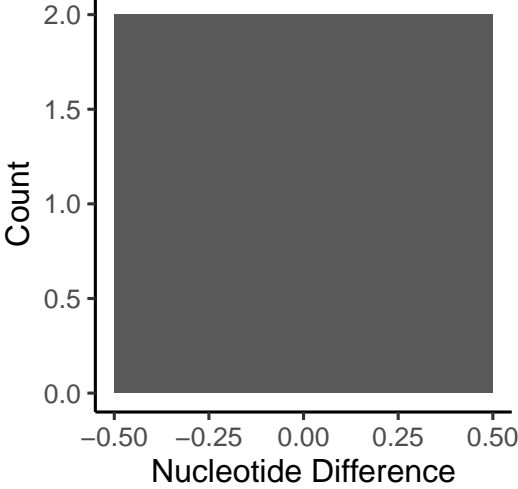
IGHV7-4-1*01

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



IGHV7-81*01

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





[illegible]