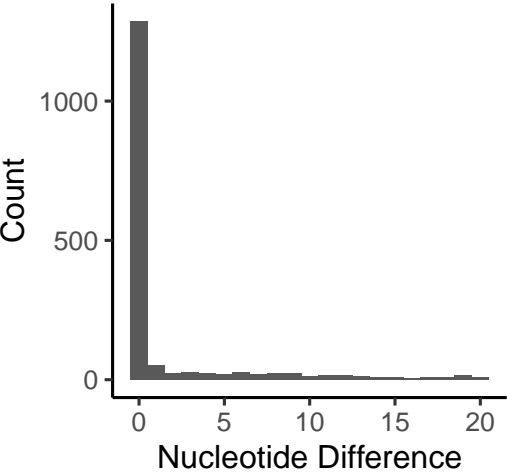


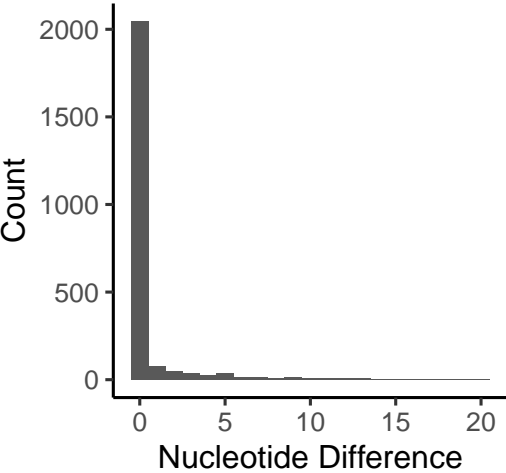
IGHV1-2*02

1715 sequences assigned
1286 (75%) exact matches, in which:
1285 unique CDR3
6 unique J



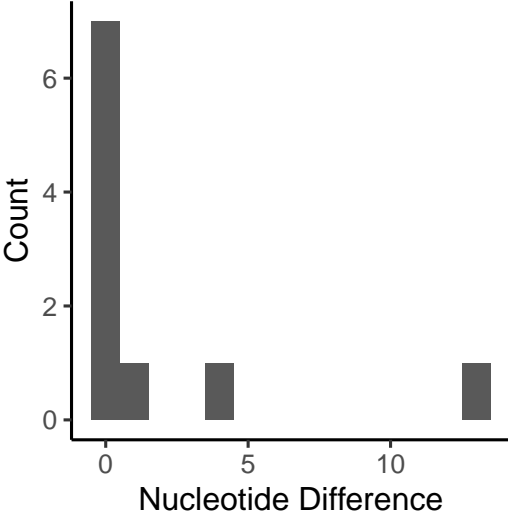
IGHV1-8*01

2397 sequences assigned
2045 (85.3%) exact matches, in which:
2035 unique CDR3
6 unique J



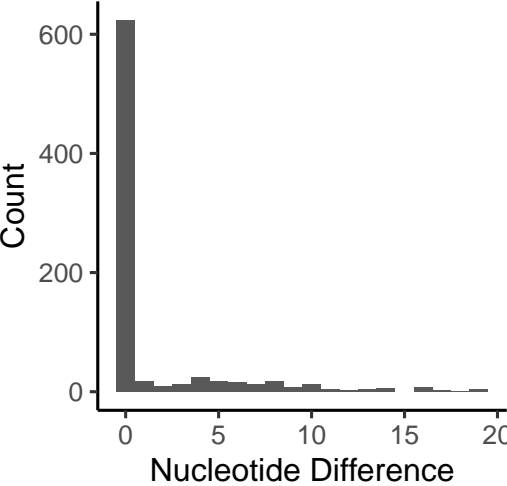
IGHV1-45*02

10 sequences assigned
7 (70%) exact matches, in which:
7 unique CDR3
3 unique J



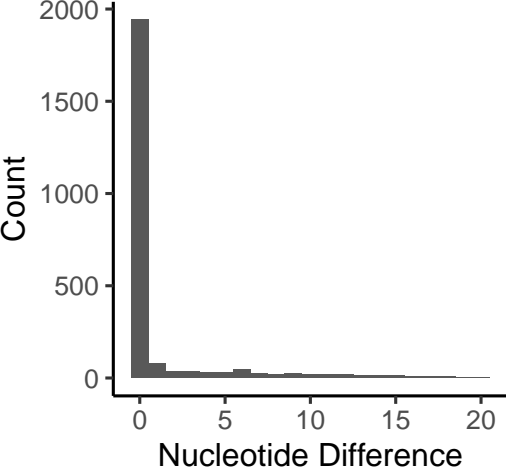
IGHV1-2*06

811 sequences assigned
624 (76.9%) exact matches, in which:
624 unique CDR3
6 unique J



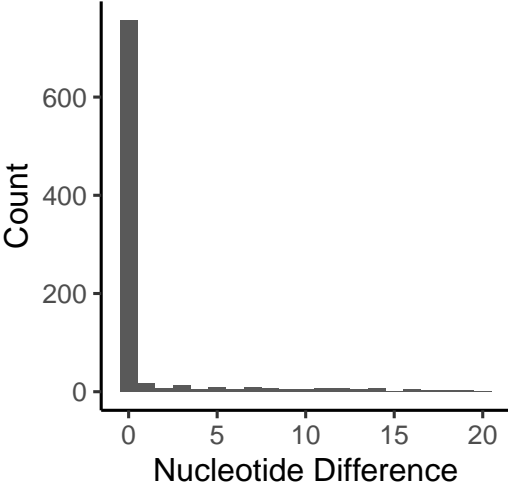
IGHV1-18*01

2420 sequences assigned
1942 (80.2%) exact matches, in which:
1935 unique CDR3
6 unique J



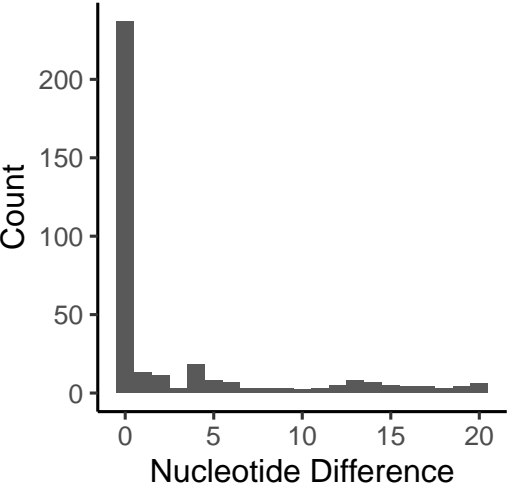
IGHV1-46*01

913 sequences assigned
757 (82.9%) exact matches, in which:
756 unique CDR3
6 unique J



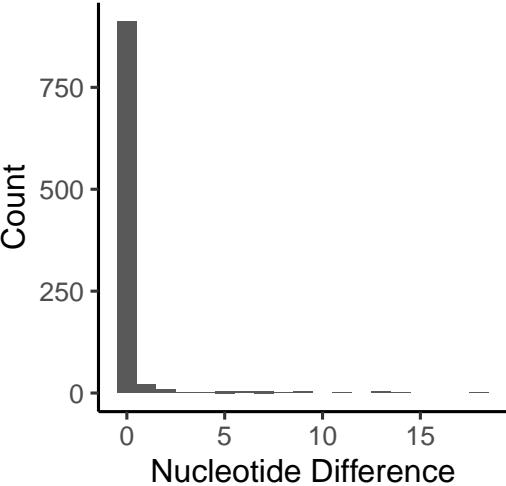
IGHV1-3*01_05

364 sequences assigned
237 (65.1%) exact matches, in which:
237 unique CDR3
6 unique J



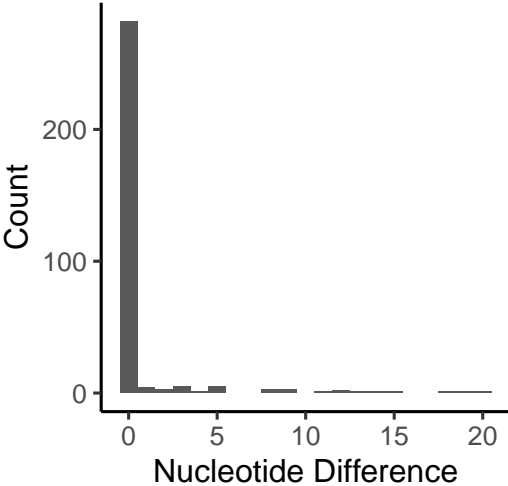
IGHV1-24*01

974 sequences assigned
912 (93.6%) exact matches, in which:
910 unique CDR3
6 unique J



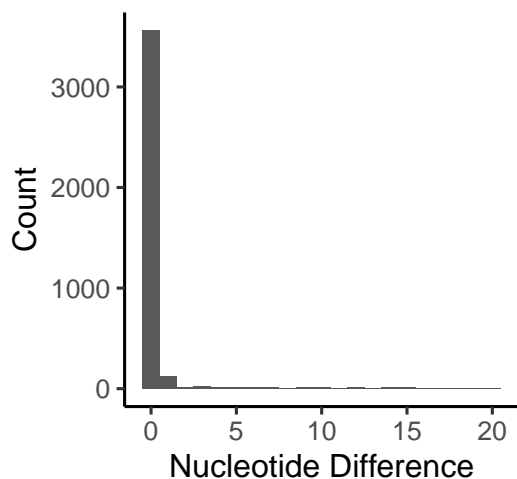
IGHV1-58*01_03

320 sequences assigned
282 (88.1%) exact matches, in which:
281 unique CDR3
6 unique J



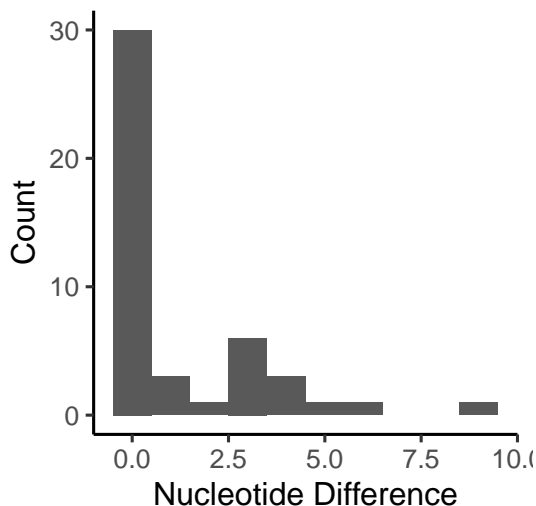
IGHV1-69*01_12_13

3905 sequences assigned
3562 (91.2%) exact matches, in which:
3554 unique CDR3
6 unique J



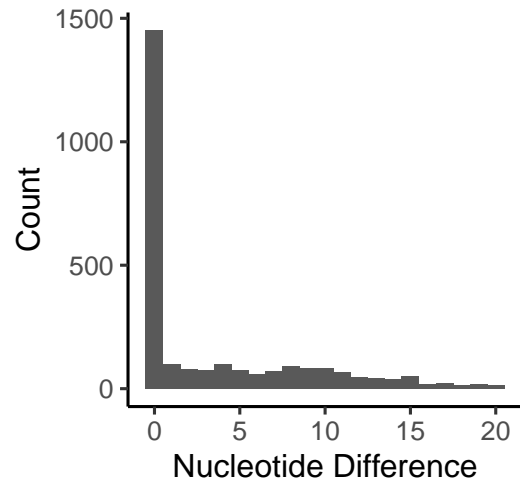
IGHV2-26*01

46 sequences assigned
30 (65.2%) exact matches, in which:
30 unique CDR3
4 unique J



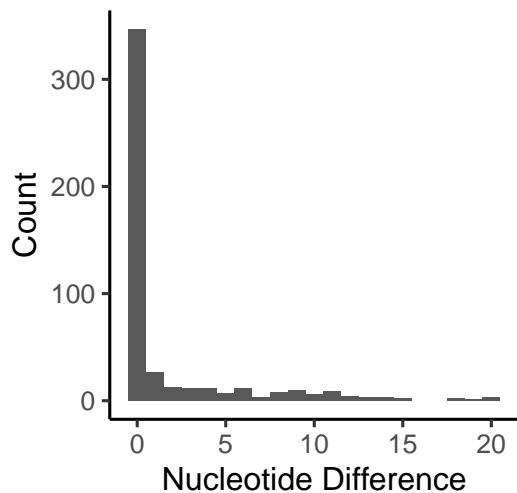
IGHV3-7*01

2647 sequences assigned
1451 (54.8%) exact matches, in which:
1371 unique CDR3
6 unique J



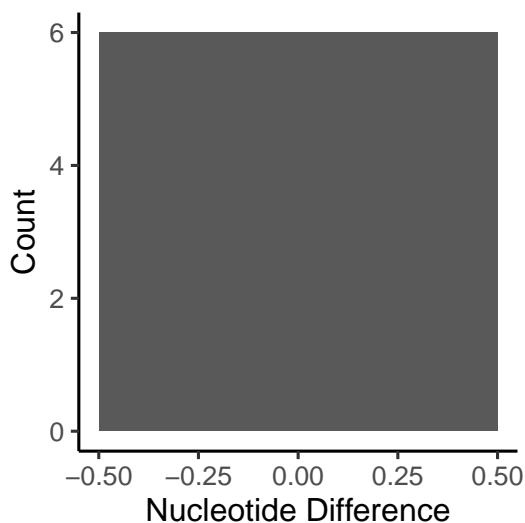
IGHV2-5*01

489 sequences assigned
347 (71%) exact matches, in which:
344 unique CDR3
6 unique J



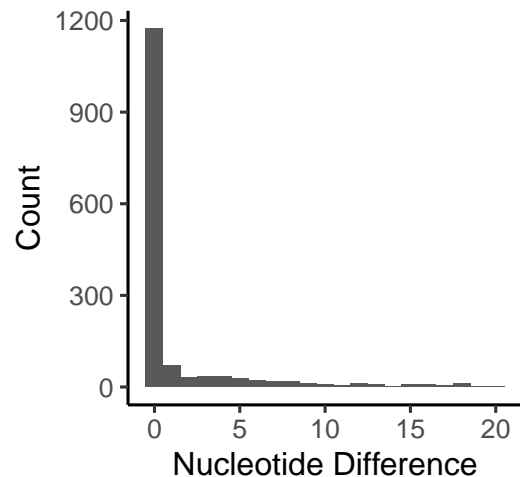
IGHV2-26*04

6 sequences assigned
6 (100%) exact matches, in which:
6 unique CDR3
3 unique J



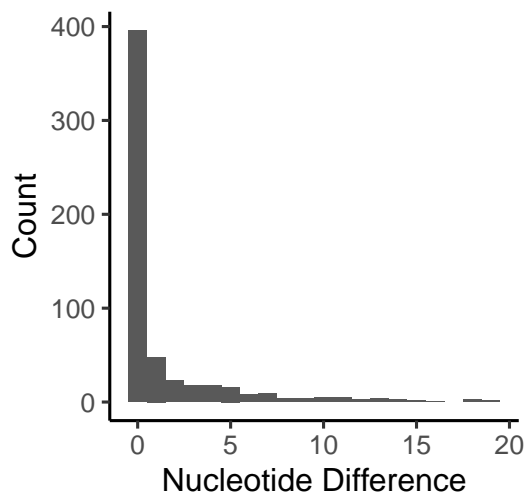
IGHV3-9*01

1508 sequences assigned
1173 (77.8%) exact matches, in which:
1127 unique CDR3
6 unique J



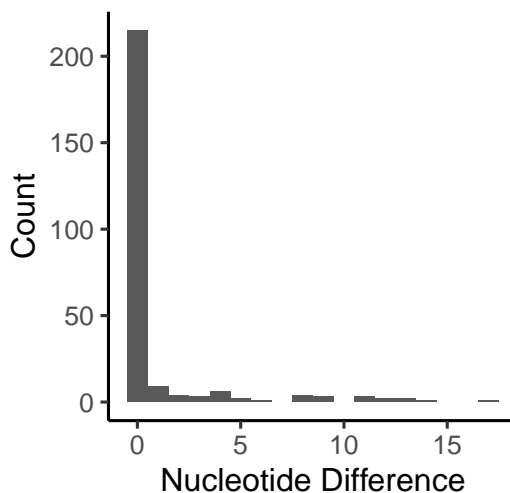
IGHV2-5*02

574 sequences assigned
396 (69%) exact matches, in which:
386 unique CDR3
6 unique J



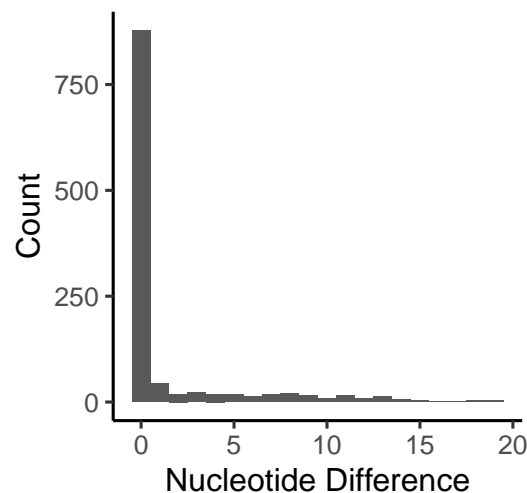
IGHV2-70*01

256 sequences assigned
215 (84%) exact matches, in which:
214 unique CDR3
6 unique J



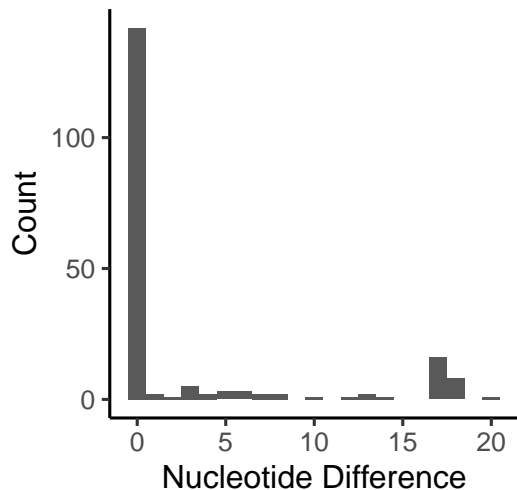
IGHV3-11*01

1146 sequences assigned
878 (76.6%) exact matches, in which:
815 unique CDR3
6 unique J



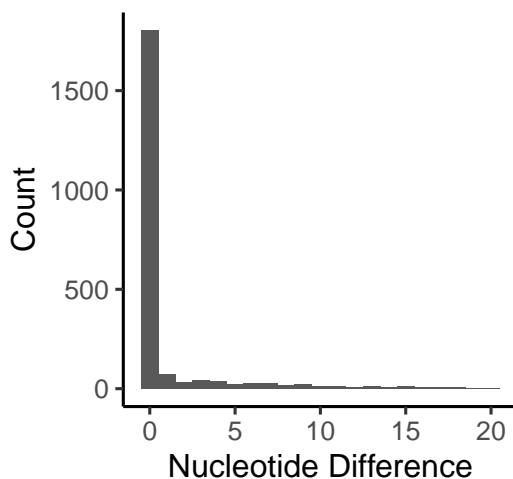
IGHV3-13*01

195 sequences assigned
142 (72.8%) exact matches, in which:
139 unique CDR3
6 unique J



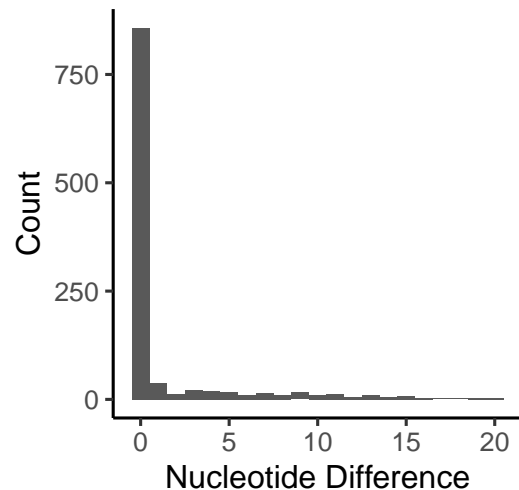
IGHV3-21*01_02

2216 sequences assigned
1803 (81.4%) exact matches, in which:
1677 unique CDR3
6 unique J



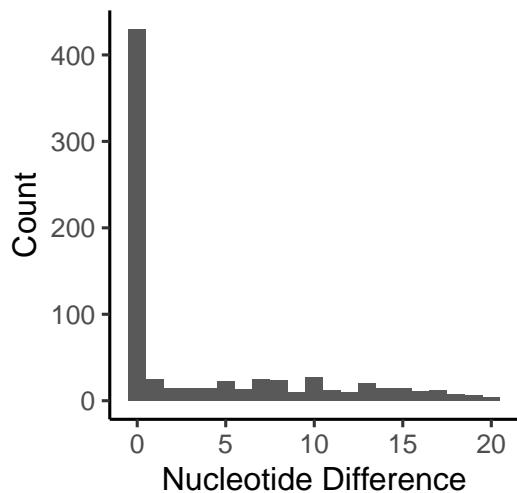
IGHV3-33*08

1104 sequences assigned
858 (77.7%) exact matches, in which:
824 unique CDR3
6 unique J



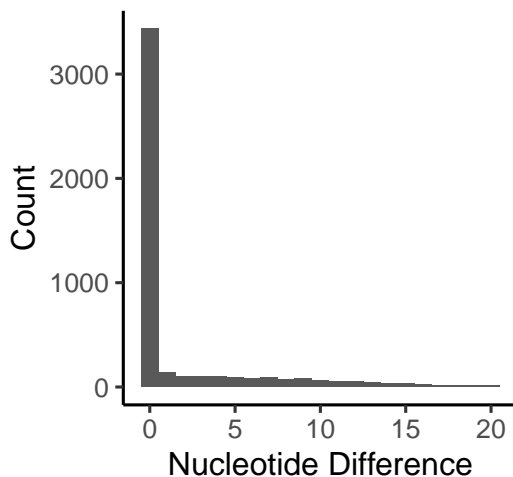
IGHV3-15*01_02

761 sequences assigned
430 (56.5%) exact matches, in which:
412 unique CDR3
6 unique J



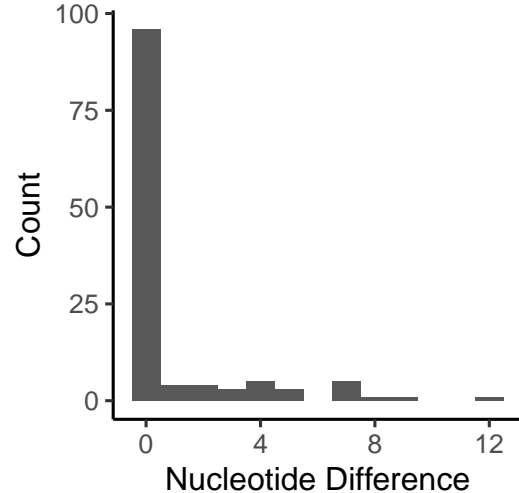
IGHV3-23*01_04

4750 sequences assigned
3435 (72.3%) exact matches, in which:
3182 unique CDR3
6 unique J



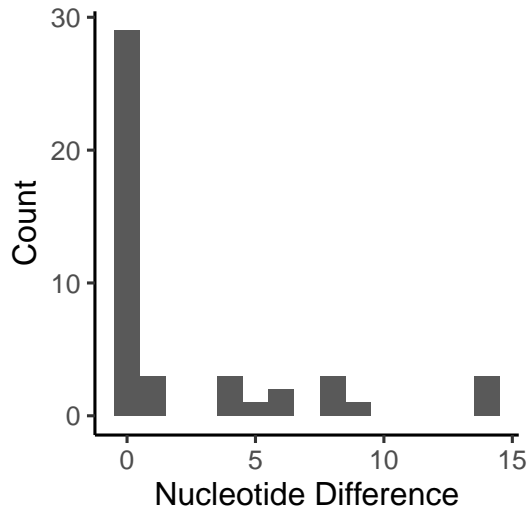
IGHV3-43*01

124 sequences assigned
96 (77.4%) exact matches, in which:
90 unique CDR3
5 unique J



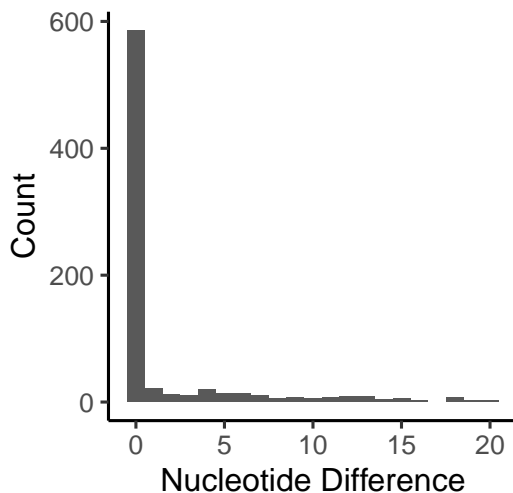
IGHV3-20*01_02

45 sequences assigned
29 (64.4%) exact matches, in which:
28 unique CDR3
5 unique J



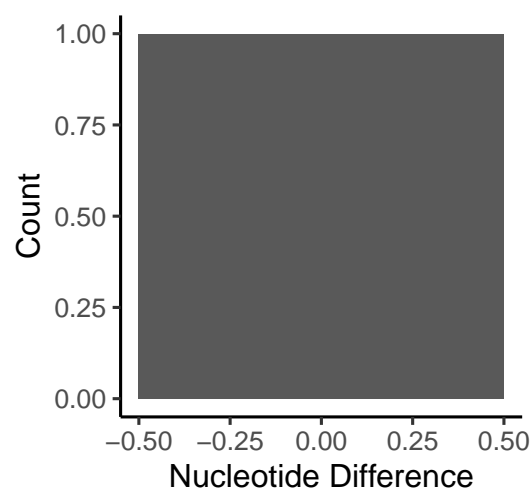
IGHV3-33*01

777 sequences assigned
586 (75.4%) exact matches, in which:
553 unique CDR3
6 unique J



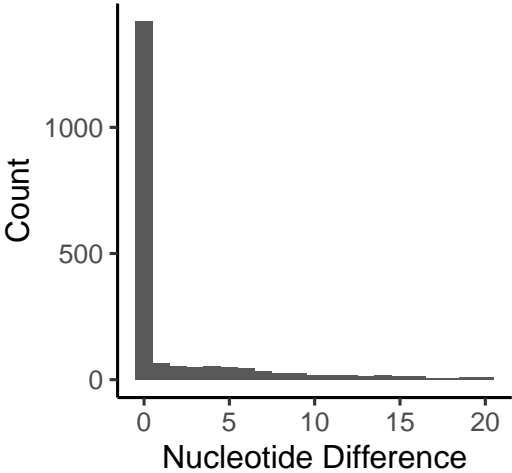
IGHV3-47*02

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



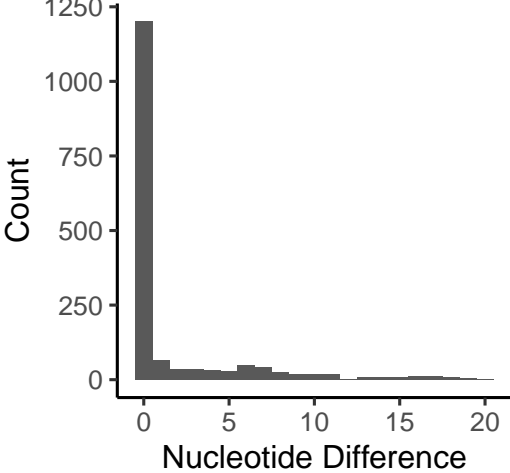
IGHV3-48*02

1973 sequences assigned
1420 (72%) exact matches, in which:
1287 unique CDR3
6 unique J



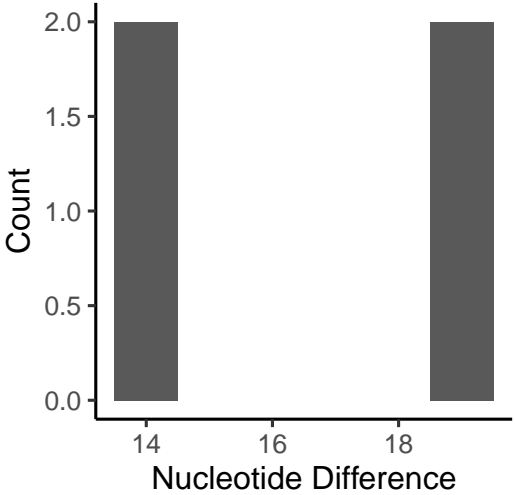
IGHV3-53*01_02

1645 sequences assigned
1201 (73%) exact matches, in which:
1111 unique CDR3
6 unique J



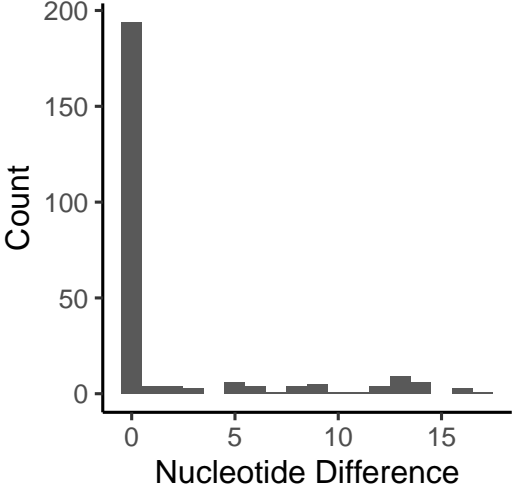
IGHV3-66*04

7 sequences assigned
No exact matches.



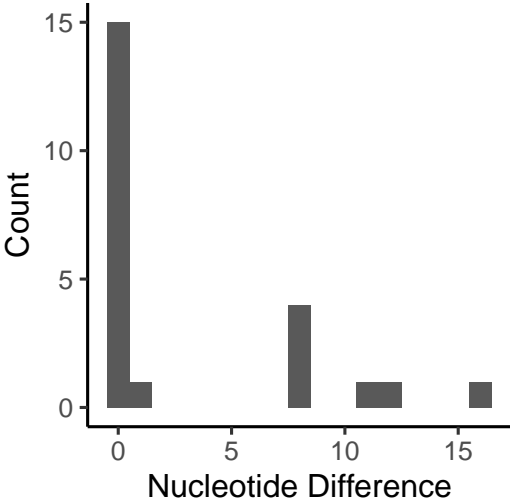
IGHV3-49*03_05

254 sequences assigned
194 (76.4%) exact matches, in which:
190 unique CDR3
6 unique J



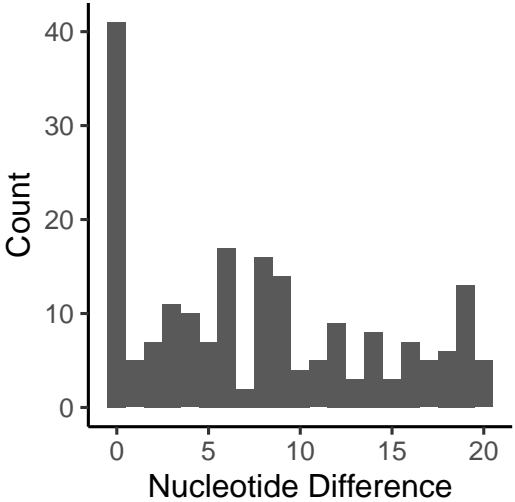
IGHV3-64*02_07

25 sequences assigned
15 (60%) exact matches, in which:
13 unique CDR3
4 unique J



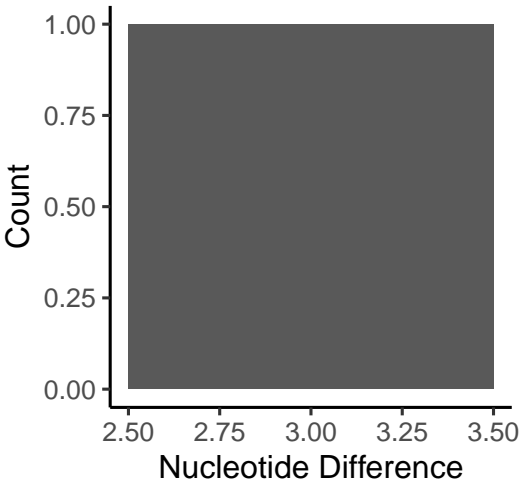
IGHV3-72*01

206 sequences assigned
41 (19.9%) exact matches, in which:
39 unique CDR3
5 unique J



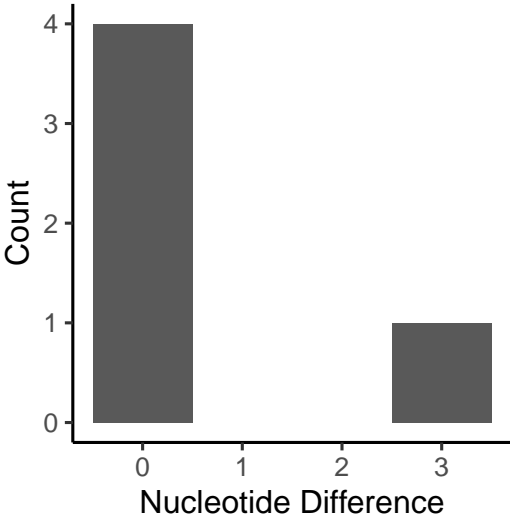
IGHV3-52*01_03

1 sequences assigned
No exact matches.



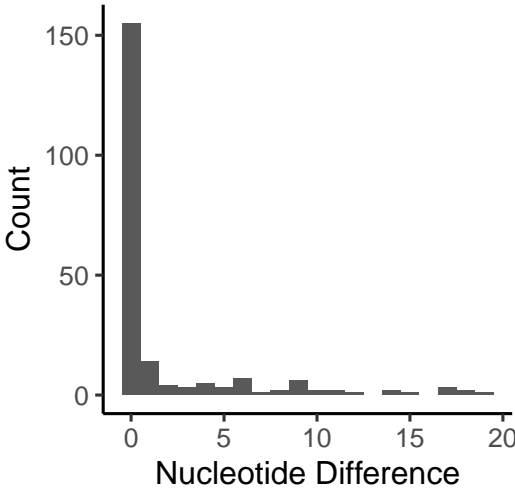
IGHV3-66*03

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
3 unique J



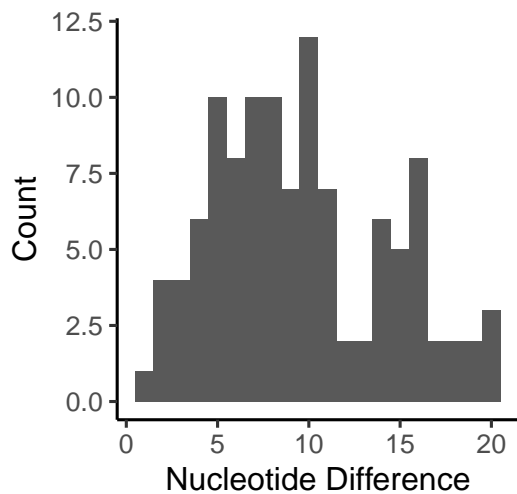
IGHV3-73*01_02

216 sequences assigned
155 (71.8%) exact matches, in which:
144 unique CDR3
5 unique J



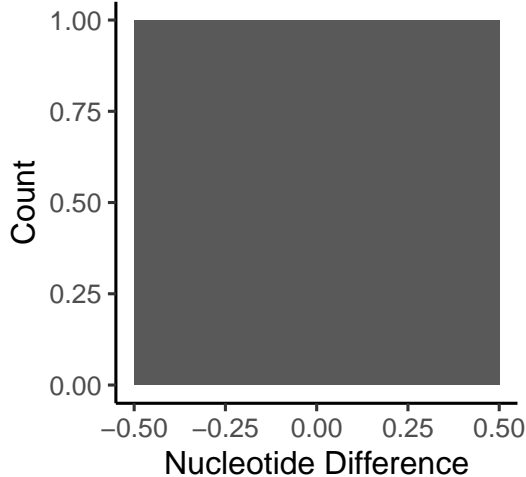
IGHV3-74*03

128 sequences assigned
No exact matches.



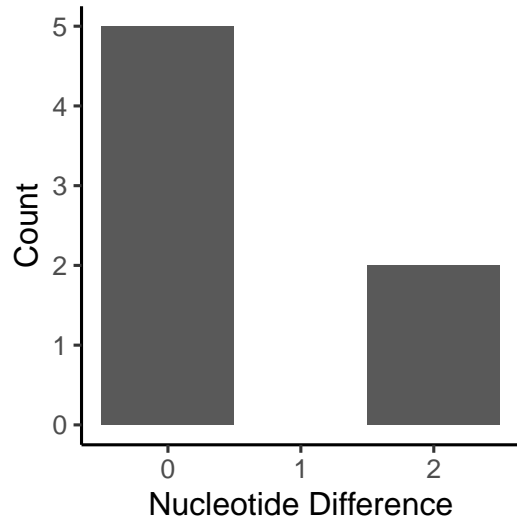
IGHV3-64D*08

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



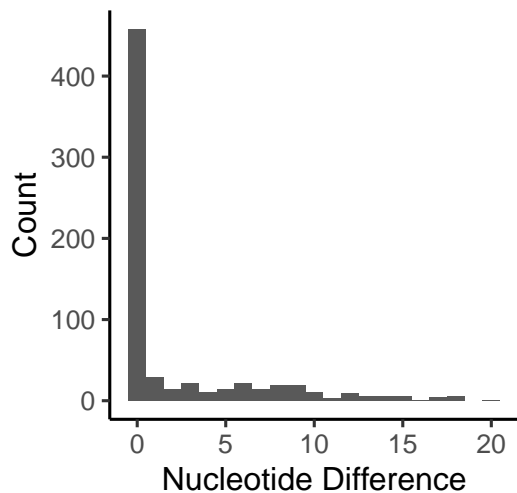
IGHV4-28*01_07

7 sequences assigned
5 (71.4%) exact matches, in which:
5 unique CDR3
4 unique J



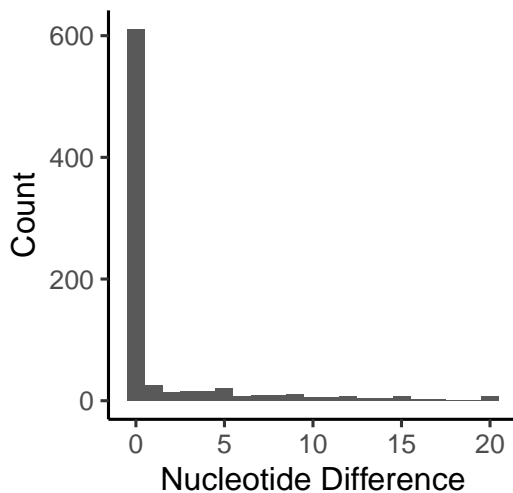
IGHV3-74*01_02

672 sequences assigned
458 (68.2%) exact matches, in which:
432 unique CDR3
6 unique J



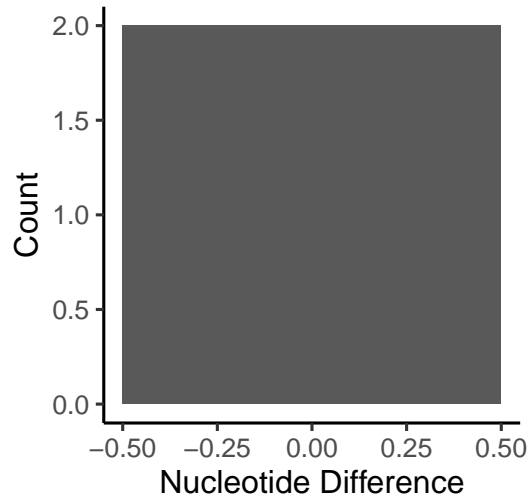
IGHV4-4*07

793 sequences assigned
611 (77%) exact matches, in which:
579 unique CDR3
6 unique J



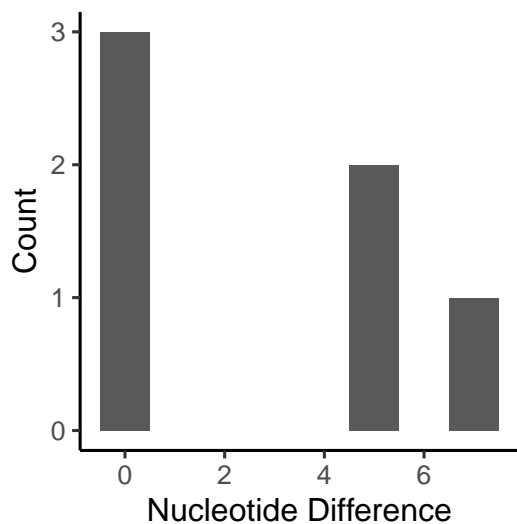
IGHV4-28*02_05

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



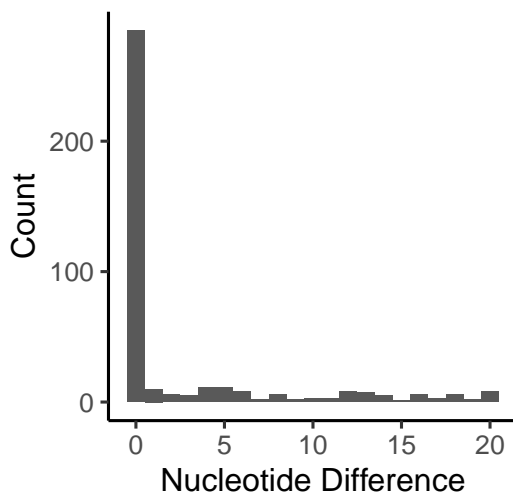
IGHV3-64D*06

6 sequences assigned
3 (50%) exact matches, in which:
3 unique CDR3
2 unique J



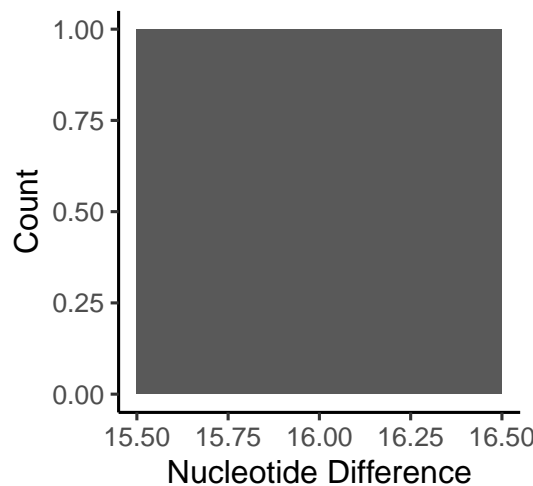
IGHV4-4*02_03

420 sequences assigned
285 (67.9%) exact matches, in which:
279 unique CDR3
6 unique J



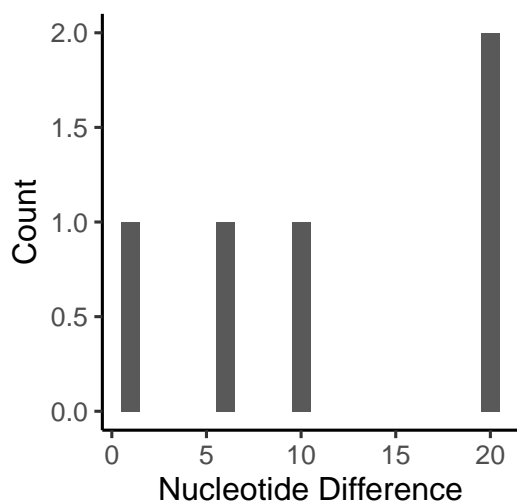
IGHV4-30-2*01

1 sequences assigned
No exact matches.



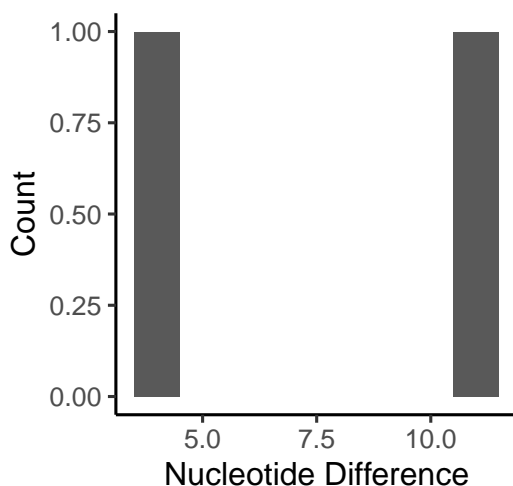
IGHV4-31*02

5 sequences assigned
No exact matches.



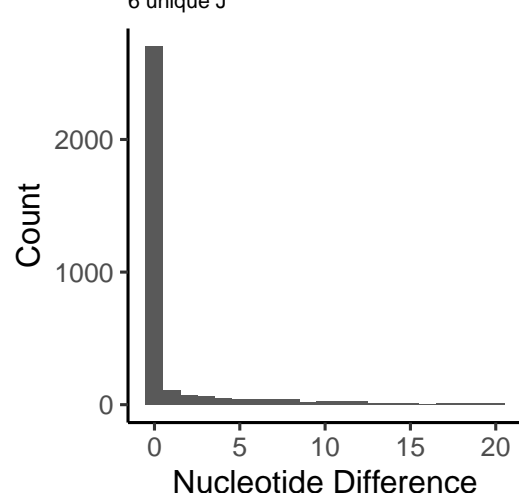
IGHV4-38-2*01

2 sequences assigned
No exact matches.



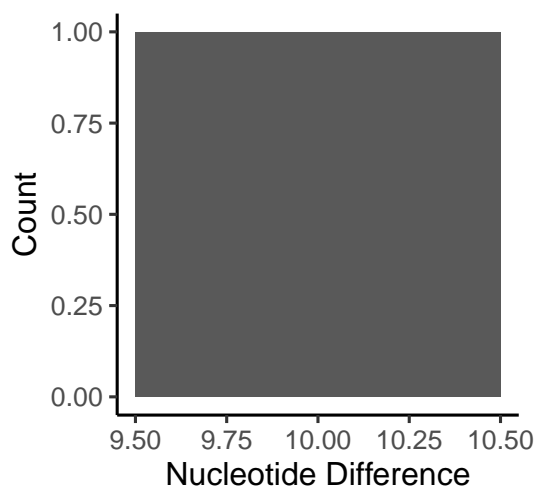
IGHV4-59*02_G88A

3386 sequences assigned
2702 (79.8%) exact matches, in which:
2550 unique CDR3
6 unique J



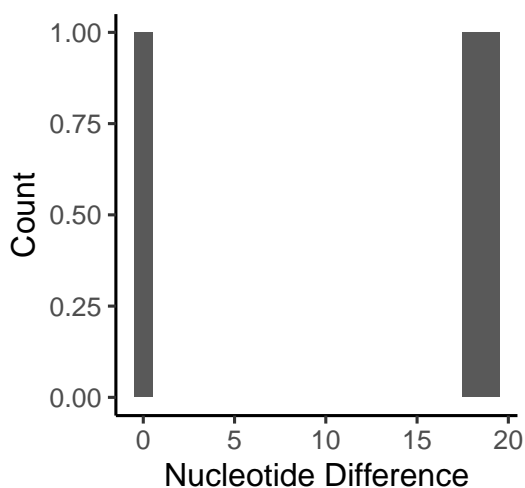
IGHV4-31*03_04

2 sequences assigned
No exact matches.



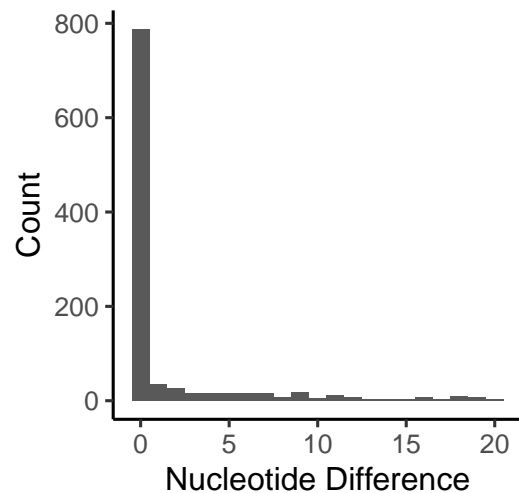
IGHV4-38-2*02

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



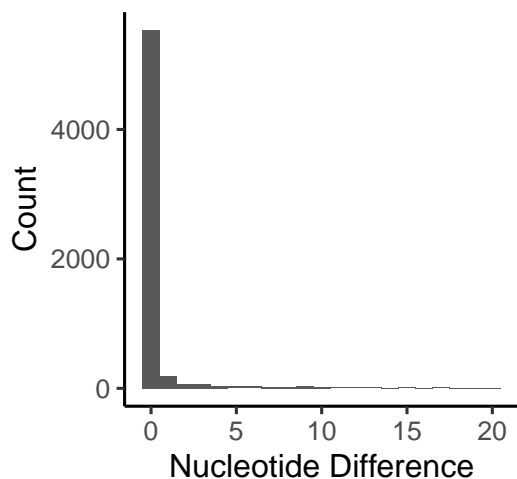
IGHV4-61*01

1022 sequences assigned
788 (77.1%) exact matches, in which:
750 unique CDR3
6 unique J



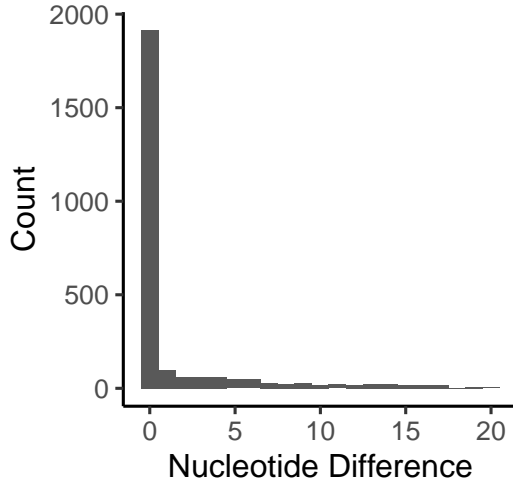
IGHV4-34*01_02

6190 sequences assigned
5536 (89.4%) exact matches, in which:
5233 unique CDR3
6 unique J



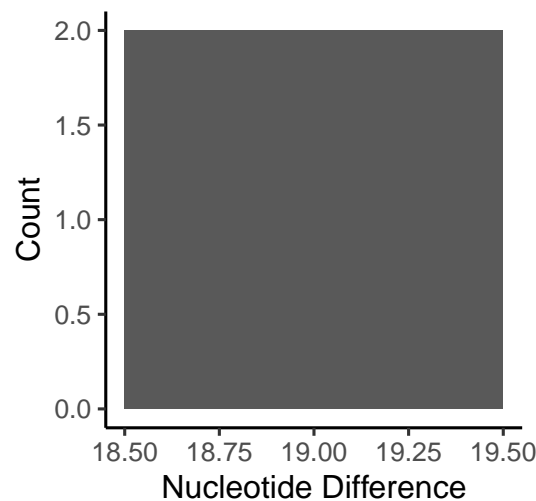
IGHV4-39*02_C258G

2606 sequences assigned
1915 (73.5%) exact matches, in which:
1826 unique CDR3
6 unique J



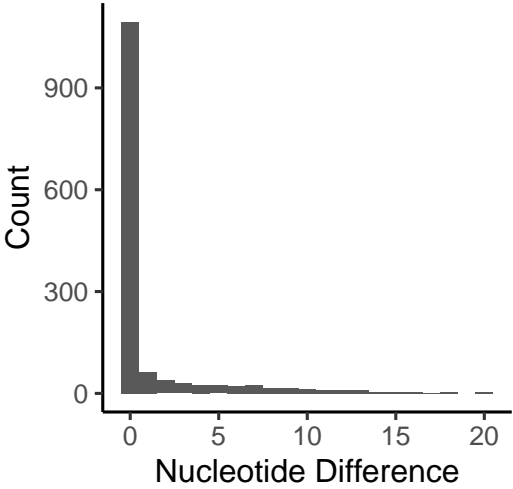
IGHV4/OR15-8*02

2 sequences assigned
No exact matches.



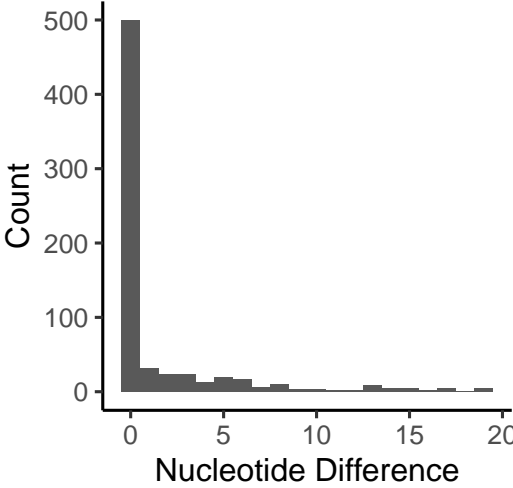
IGHV5-51*07_A128G

1421 sequences assigned
1095 (77.1%) exact matches, in which:
1092 unique CDR3
6 unique J



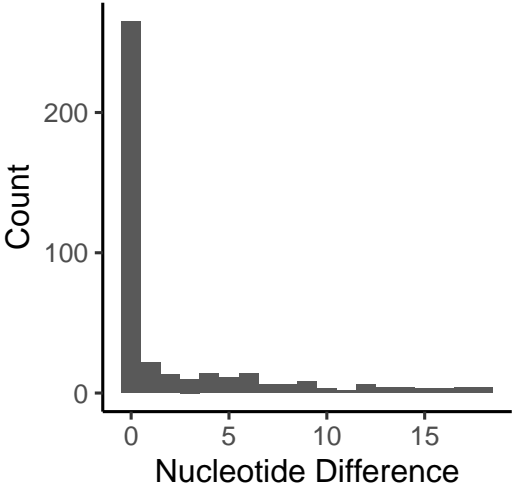
IGHV6-1*01_02

695 sequences assigned
500 (71.9%) exact matches, in which:
498 unique CDR3
6 unique J



IGHV7-4-1*02

404 sequences assigned
265 (65.6%) exact matches, in which:
258 unique CDR3
6 unique J





Warning – no inferred sequences found.