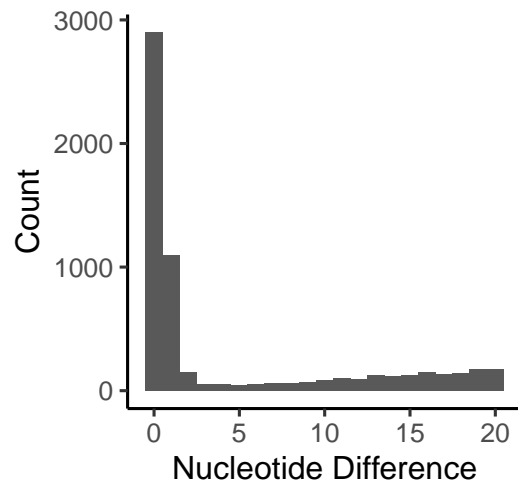


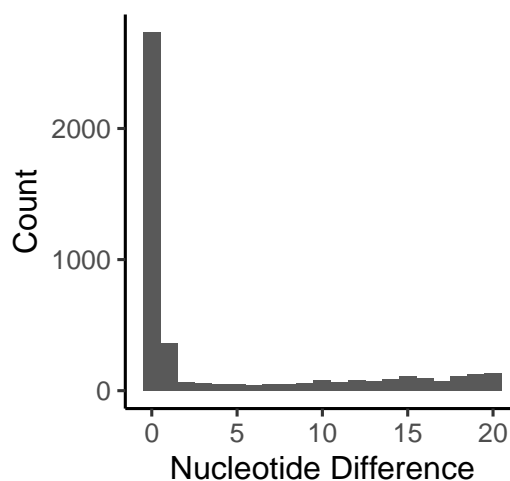
IGHV1-2*02

7862 sequences assigned
2899 (36.9%) exact matches, in which:
2875 unique CDR3
6 unique J



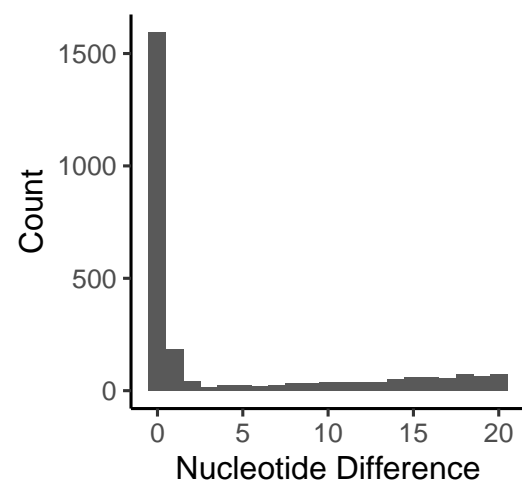
IGHV1-18*01

6623 sequences assigned
2733 (41.3%) exact matches, in which:
2716 unique CDR3
6 unique J



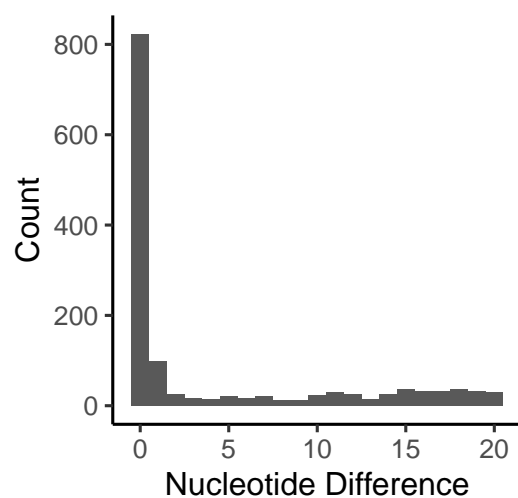
IGHV1-46*01

4087 sequences assigned
1594 (39%) exact matches, in which:
1584 unique CDR3
6 unique J



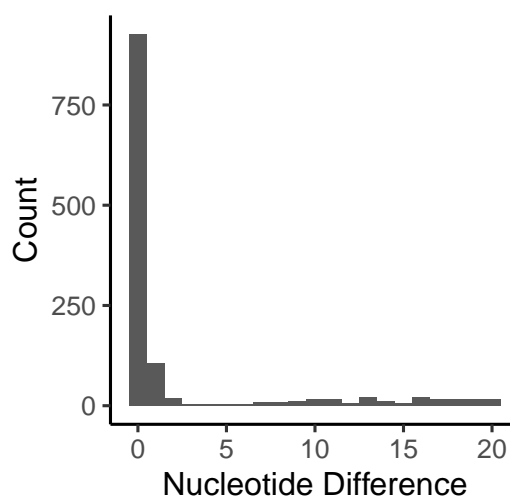
IGHV1-3*01

2211 sequences assigned
823 (37.2%) exact matches, in which:
814 unique CDR3
6 unique J



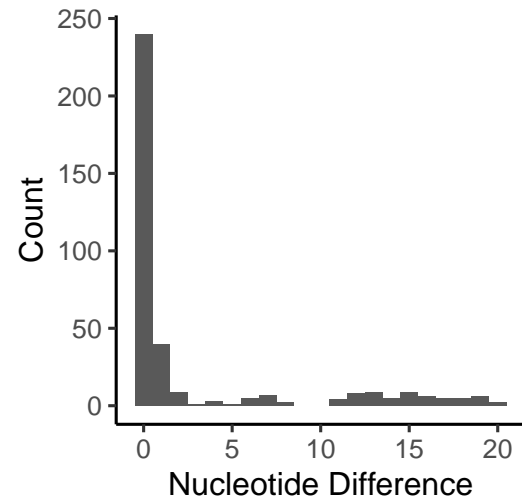
IGHV1-24*01

1559 sequences assigned
927 (59.5%) exact matches, in which:
926 unique CDR3
6 unique J



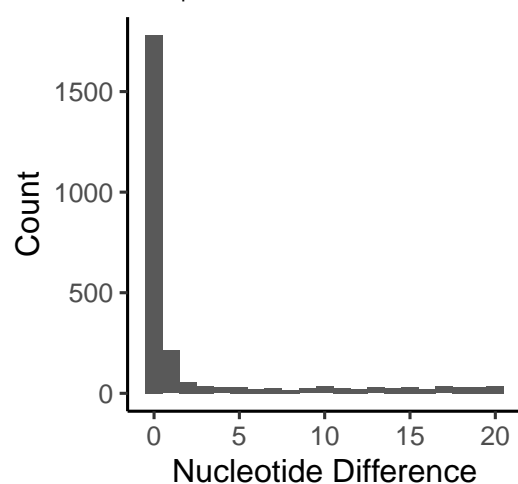
IGHV1-58*02

423 sequences assigned
240 (56.7%) exact matches, in which:
240 unique CDR3
6 unique J



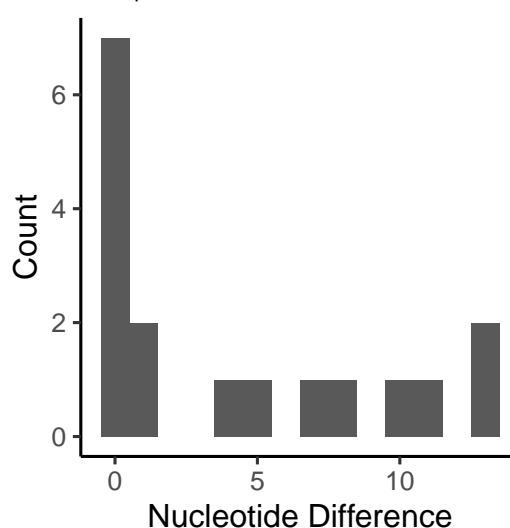
IGHV1-8*01

3116 sequences assigned
1781 (57.2%) exact matches, in which:
1776 unique CDR3
6 unique J



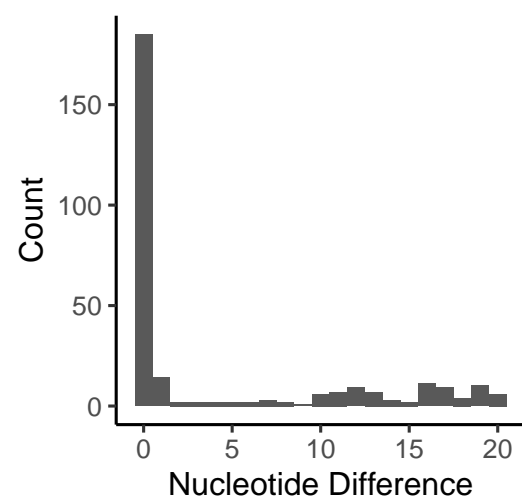
IGHV1-45*02

90 sequences assigned
7 (7.8%) exact matches, in which:
7 unique CDR3
4 unique J



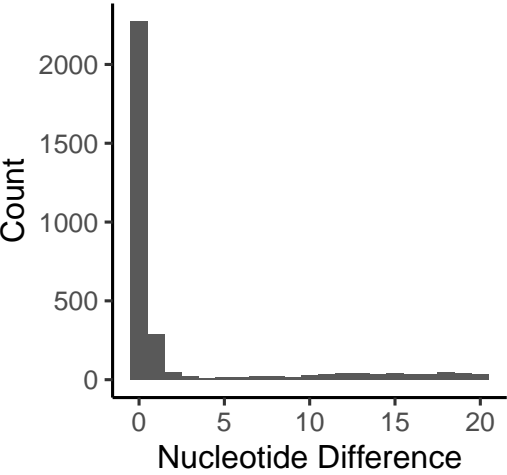
IGHV1-69-2*01

448 sequences assigned
185 (41.3%) exact matches, in which:
184 unique CDR3
6 unique J



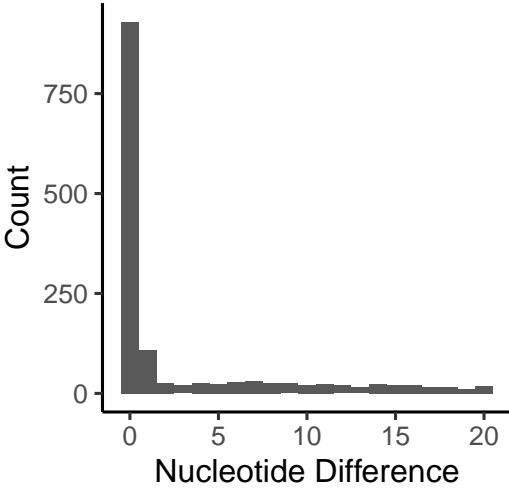
IGHV1-69*06

4127 sequences assigned
2273 (55.1%) exact matches, in which:
2263 unique CDR3
6 unique J



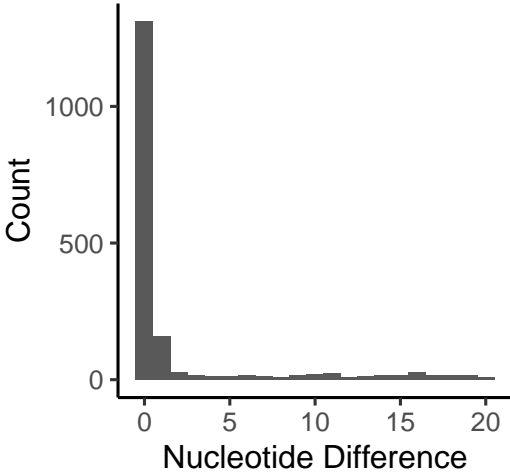
IGHV2-5*01

1612 sequences assigned
930 (57.7%) exact matches, in which:
926 unique CDR3
6 unique J



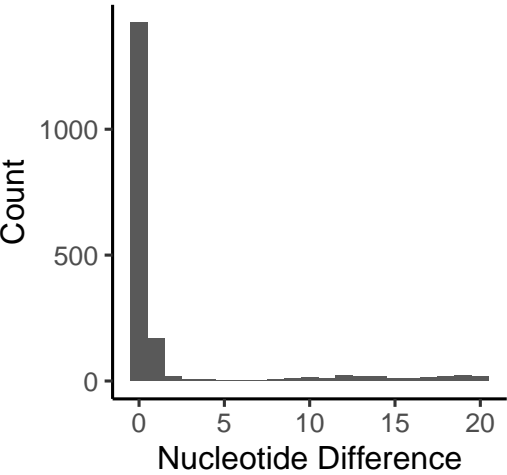
IGHV2-26*01

1893 sequences assigned
1311 (69.3%) exact matches, in which:
1302 unique CDR3
6 unique J



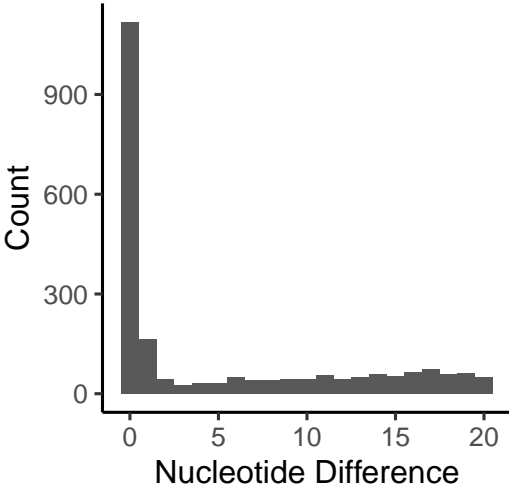
IGHV1-69*08_C191T

2540 sequences assigned
1423 (56%) exact matches, in which:
1418 unique CDR3
6 unique J



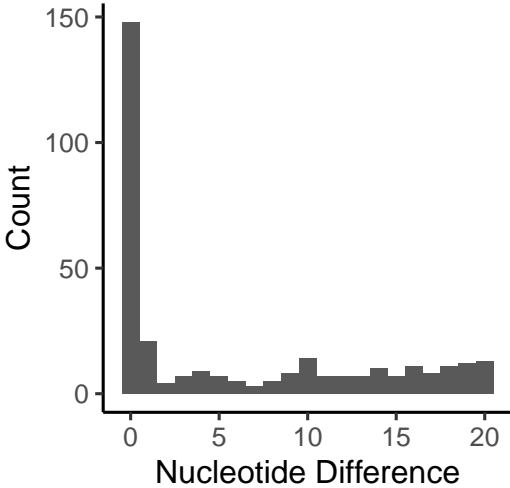
IGHV2-5*02

2774 sequences assigned
1118 (40.3%) exact matches, in which:
1112 unique CDR3
6 unique J



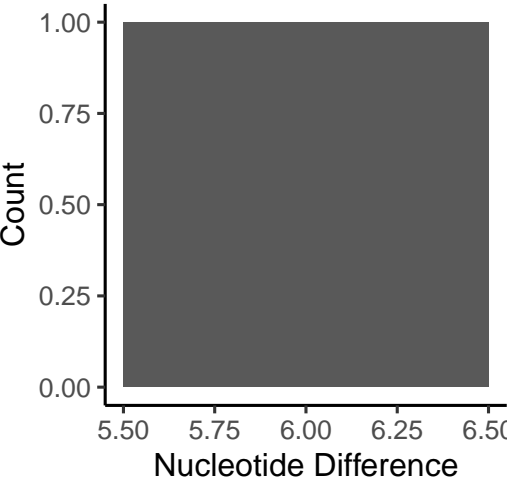
IGHV2-70*01

434 sequences assigned
148 (34.1%) exact matches, in which:
147 unique CDR3
5 unique J



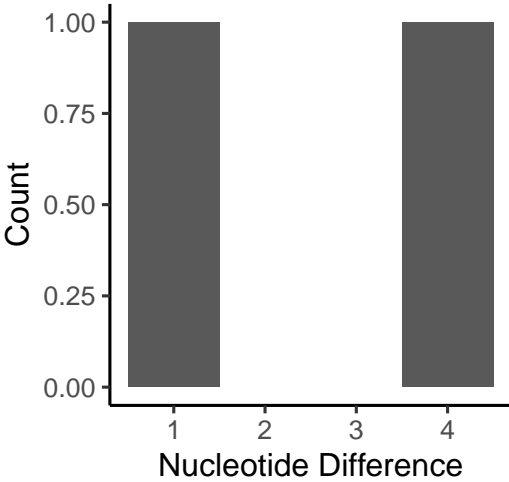
IGHV1-NL1*01

1 sequences assigned
No exact matches.



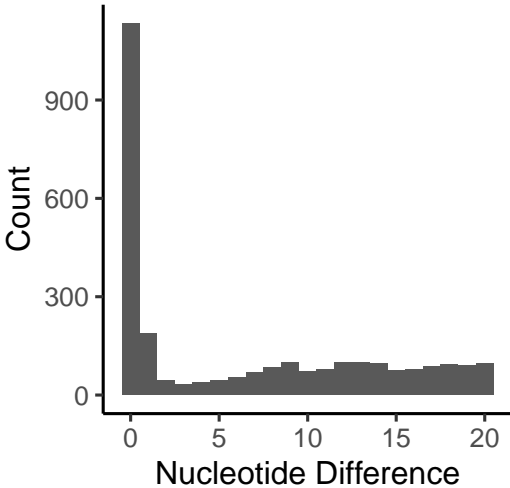
IGHV2-10*01

2 sequences assigned
No exact matches.



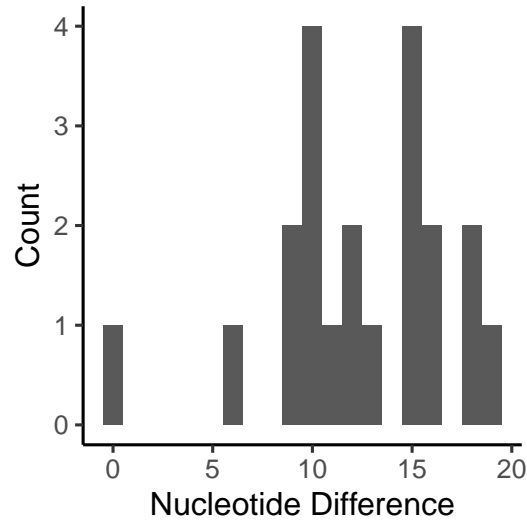
IGHV3-7*01

3929 sequences assigned
1134 (28.9%) exact matches, in which:
1123 unique CDR3
6 unique J



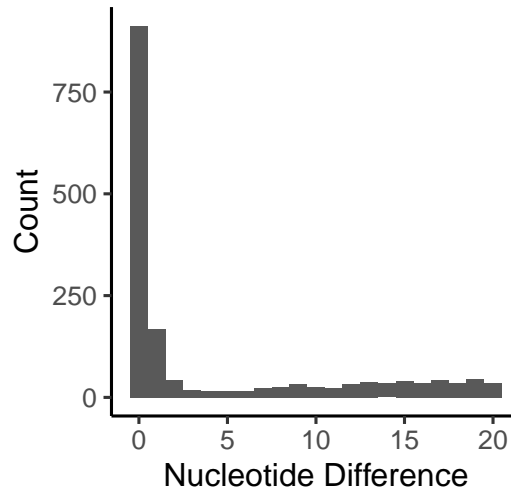
IGHV3-7*03

72 sequences assigned
1 (1.4%) exact matches, in which:
1 unique CDR3
1 unique J



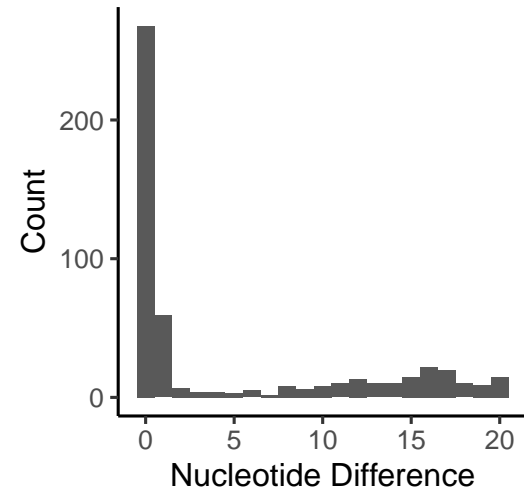
IGHV3-11*01

2163 sequences assigned
913 (42.2%) exact matches, in which:
908 unique CDR3
6 unique J



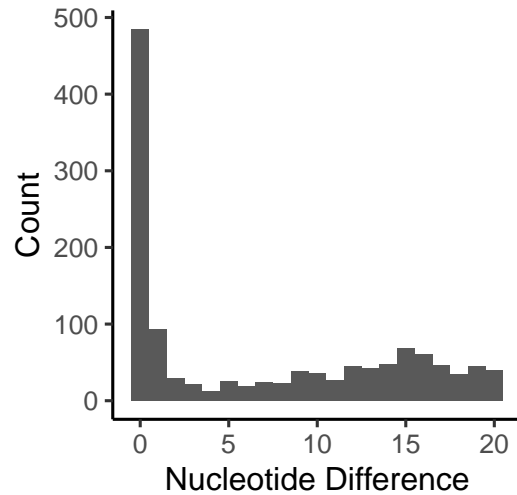
IGHV3-13*01

948 sequences assigned
268 (28.3%) exact matches, in which:
260 unique CDR3
5 unique J



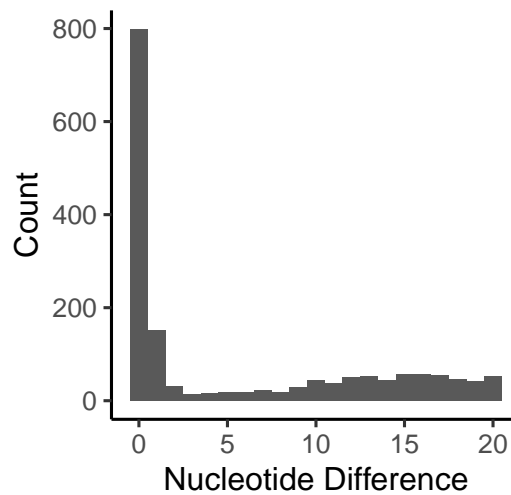
IGHV3-7*04

1666 sequences assigned
485 (29.1%) exact matches, in which:
482 unique CDR3
6 unique J



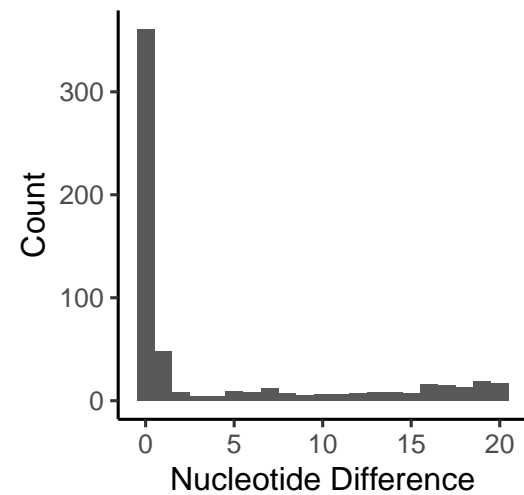
IGHV3-11*05

2254 sequences assigned
799 (35.4%) exact matches, in which:
797 unique CDR3
6 unique J



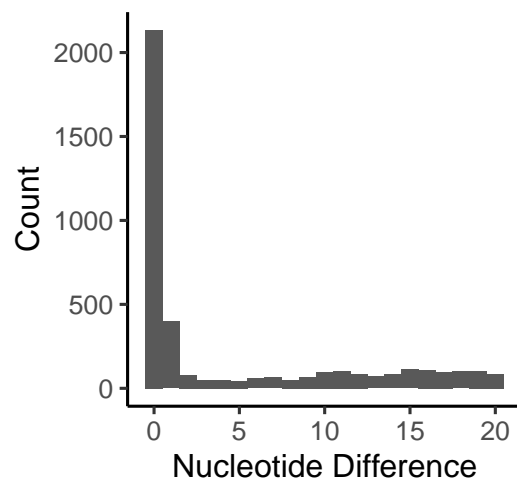
IGHV3-13*04

729 sequences assigned
361 (49.5%) exact matches, in which:
359 unique CDR3
6 unique J



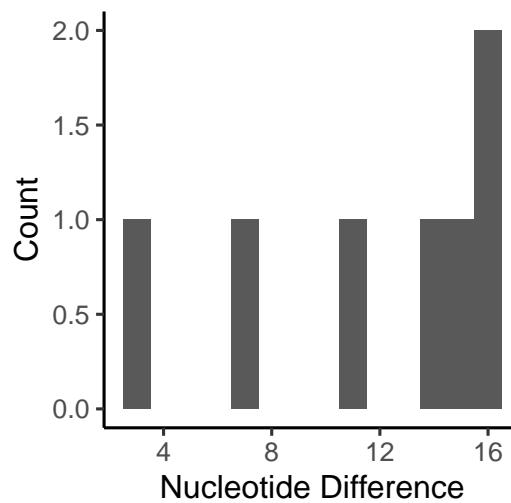
IGHV3-9*01

5165 sequences assigned
2134 (41.3%) exact matches, in which:
2106 unique CDR3
6 unique J



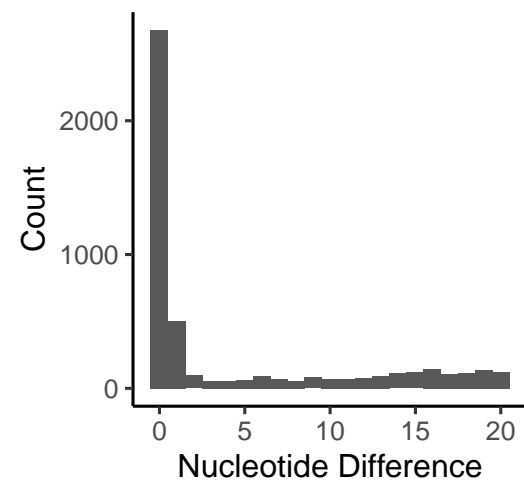
IGHV3-11*06

7 sequences assigned
No exact matches.



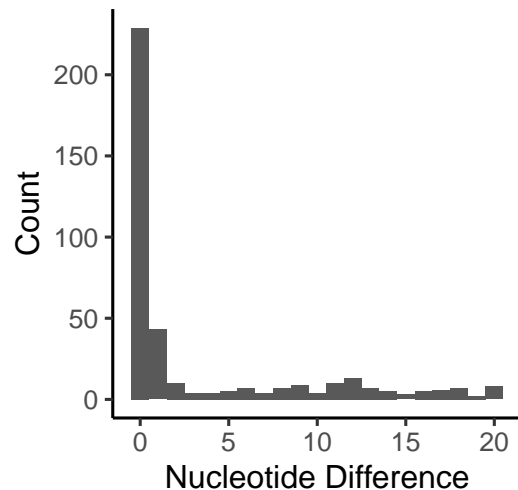
IGHV3-15*01

6392 sequences assigned
2678 (41.9%) exact matches, in which:
2645 unique CDR3
6 unique J



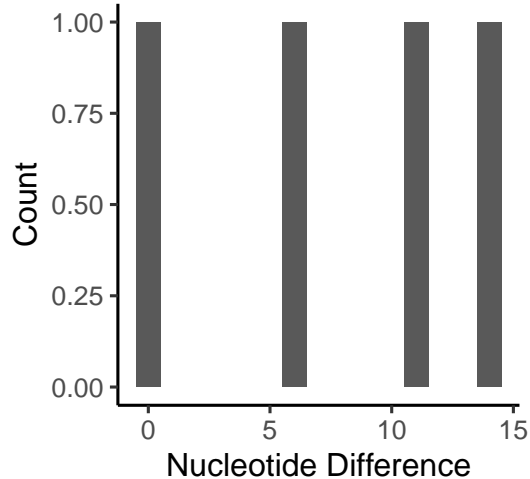
IGHV3-20*01

418 sequences assigned
229 (54.8%) exact matches, in which:
225 unique CDR3
6 unique J



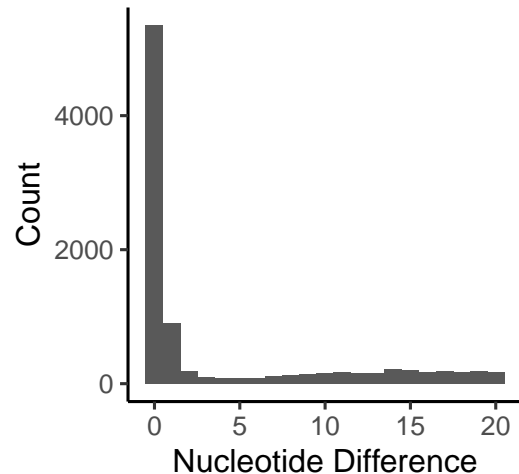
IGHV3-30-3*01

18 sequences assigned
1 (5.6%) exact matches, in which:
1 unique CDR3
1 unique J



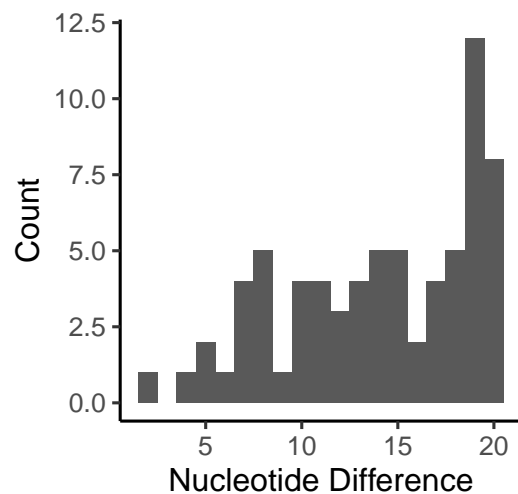
IGHV3-33*01

11459 sequences assigned
5347 (46.7%) exact matches, in which:
5315 unique CDR3
6 unique J



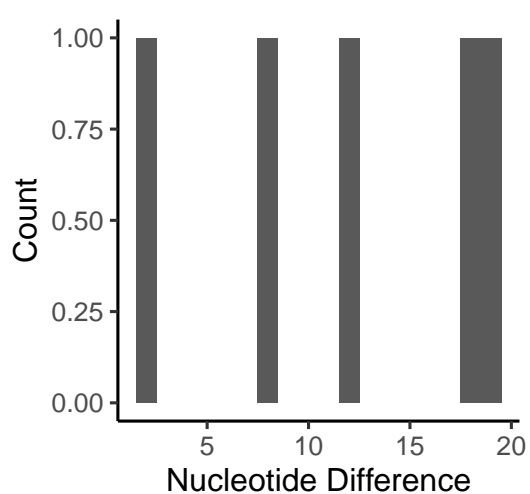
IGHV3-20*04

179 sequences assigned
No exact matches.



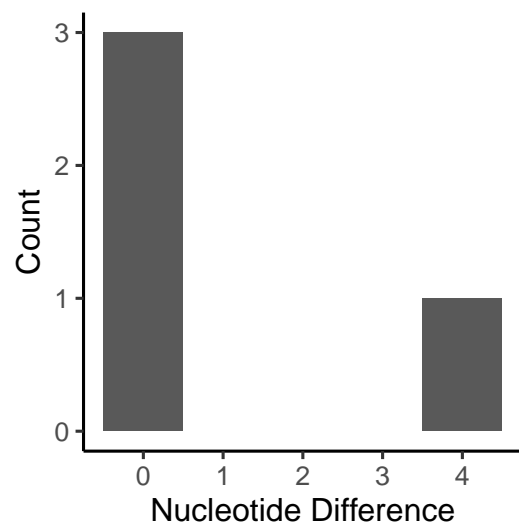
IGHV3-30-3*02

13 sequences assigned
No exact matches.



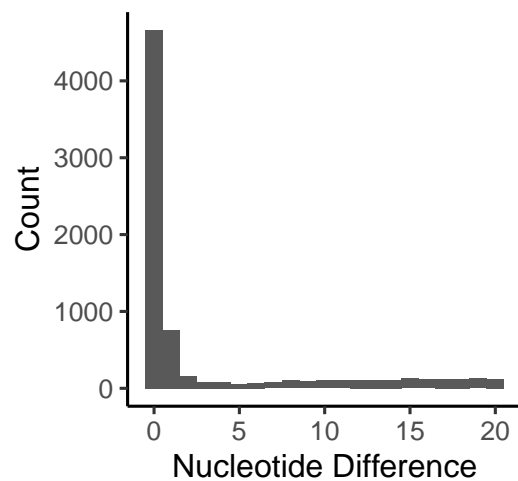
IGHV3-35*01

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



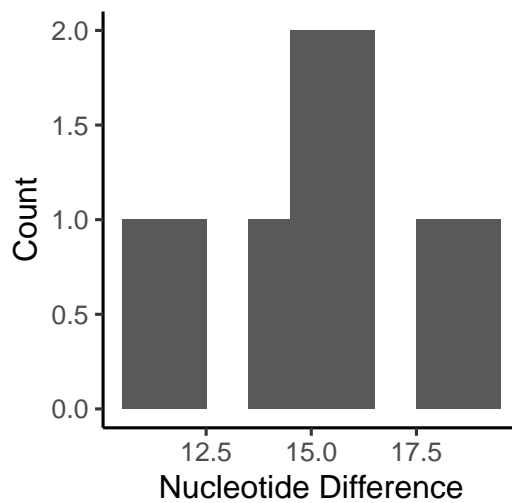
IGHV3-21*01

9238 sequences assigned
4661 (50.5%) exact matches, in which:
4616 unique CDR3
6 unique J



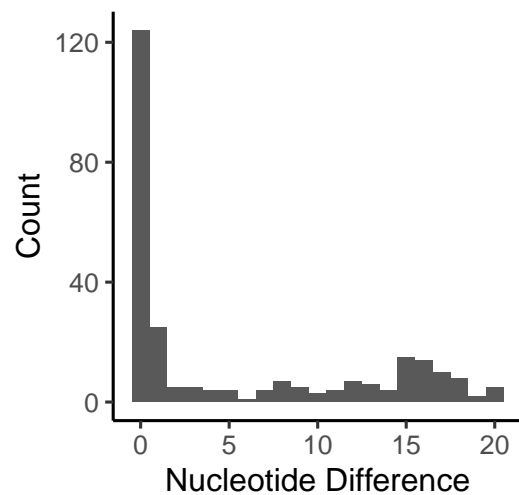
IGHV3-30-3*03

48 sequences assigned
No exact matches.



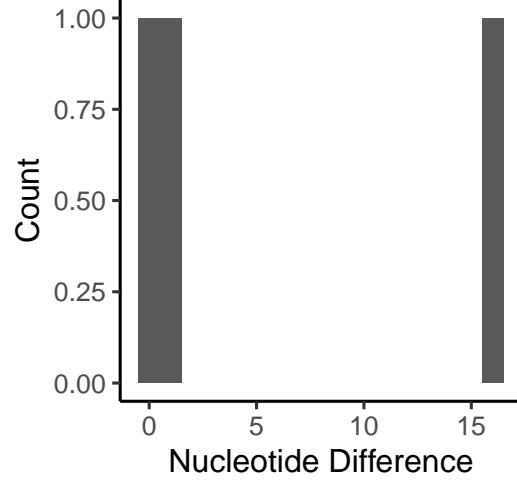
IGHV3-43*01

367 sequences assigned
124 (33.8%) exact matches, in which:
124 unique CDR3
6 unique J



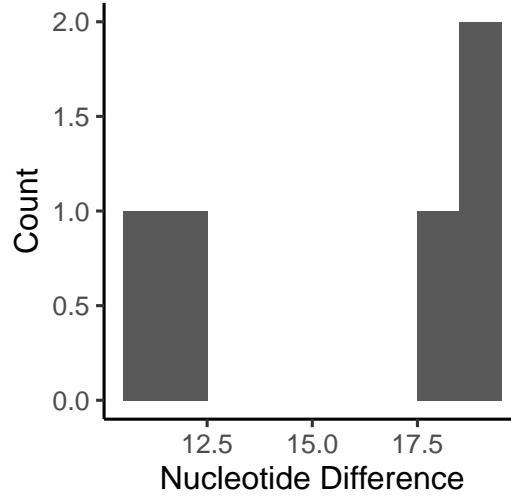
IGHV3-47*02

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



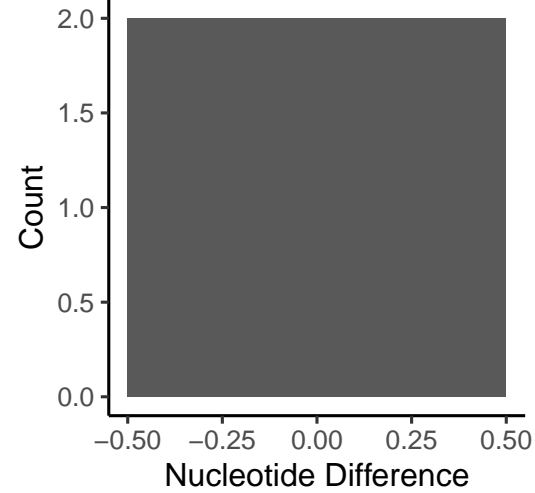
IGHV3-48*04

28 sequences assigned
No exact matches.



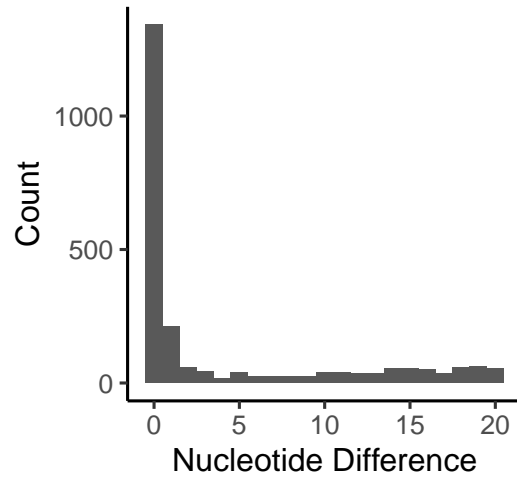
IGHV3-52*01

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



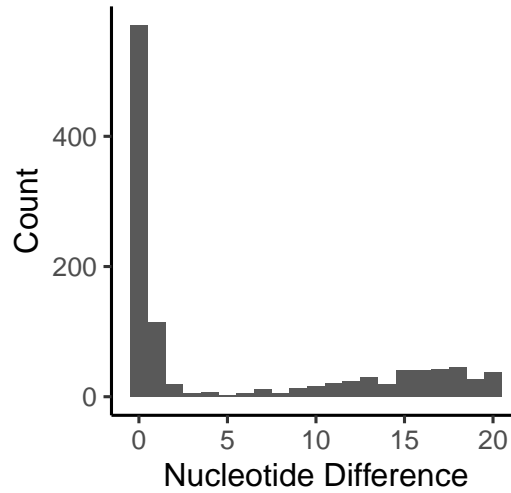
IGHV3-48*02

2817 sequences assigned
1342 (47.6%) exact matches, in which:
1329 unique CDR3
6 unique J



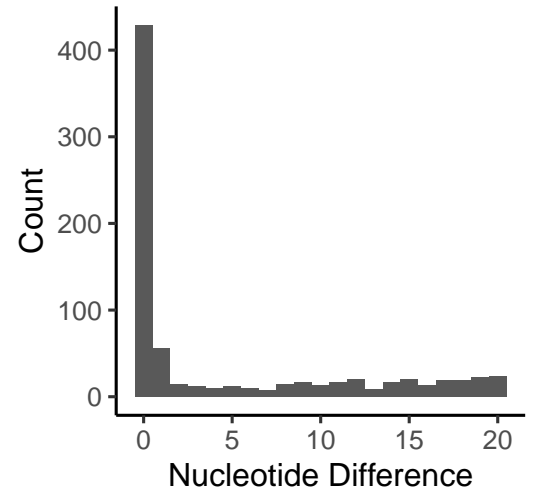
IGHV3-49*03

1419 sequences assigned
571 (40.2%) exact matches, in which:
570 unique CDR3
6 unique J



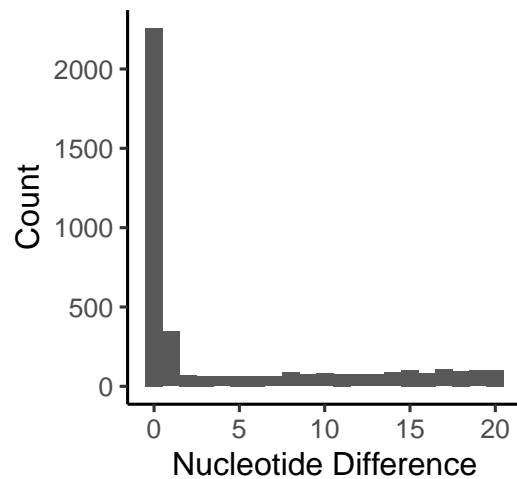
IGHV3-53*02

1068 sequences assigned
429 (40.2%) exact matches, in which:
426 unique CDR3
6 unique J



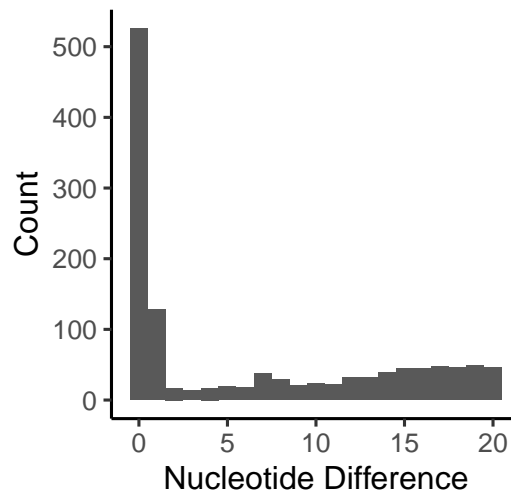
IGHV3-48*03

5330 sequences assigned
2258 (42.4%) exact matches, in which:
2240 unique CDR3
6 unique J



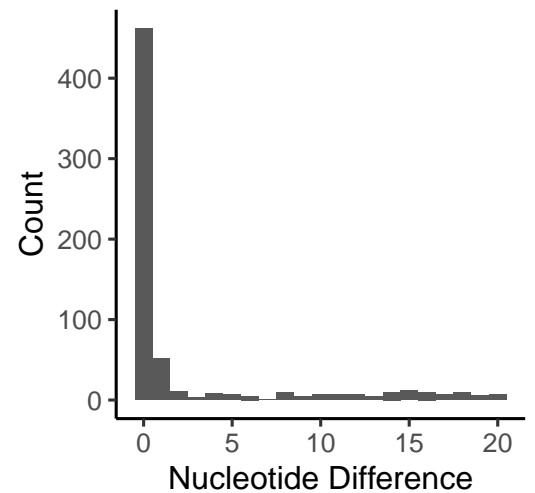
IGHV3-49*04

1762 sequences assigned
526 (29.9%) exact matches, in which:
520 unique CDR3
6 unique J



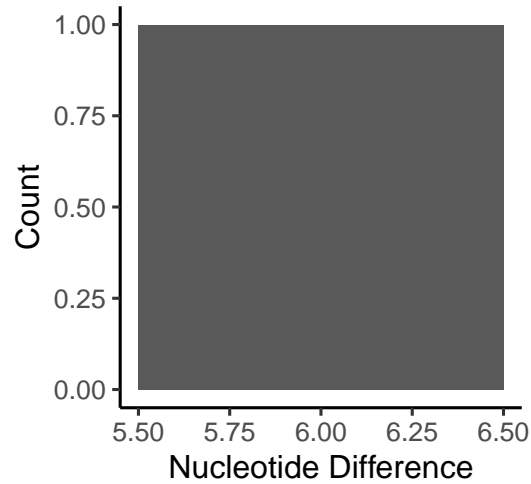
IGHV3-53*04

763 sequences assigned
462 (60.6%) exact matches, in which:
457 unique CDR3
5 unique J



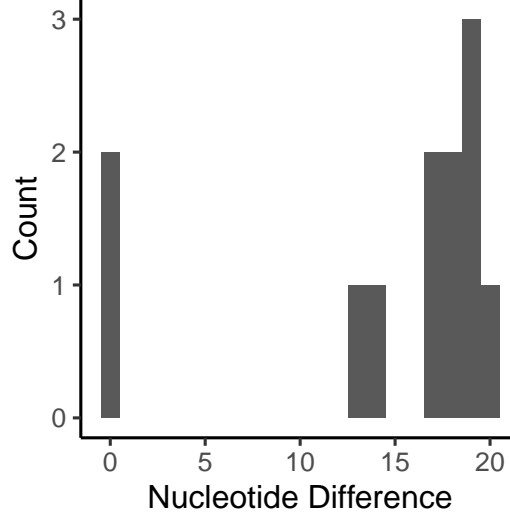
IGHV3-62*03

1 sequences assigned
No exact matches.



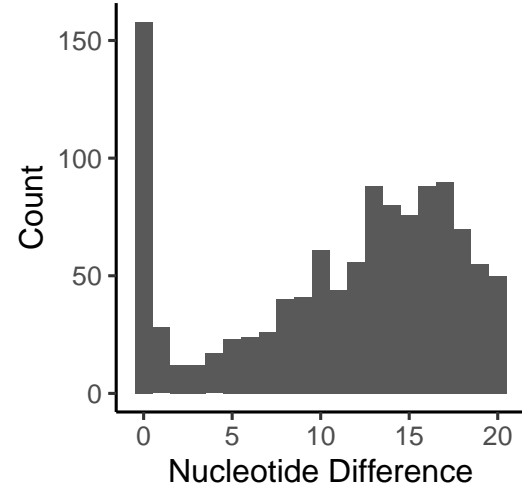
IGHV3-69-1*01

395 sequences assigned
2 (0.5%) exact matches, in which:
2 unique CDR3
1 unique J



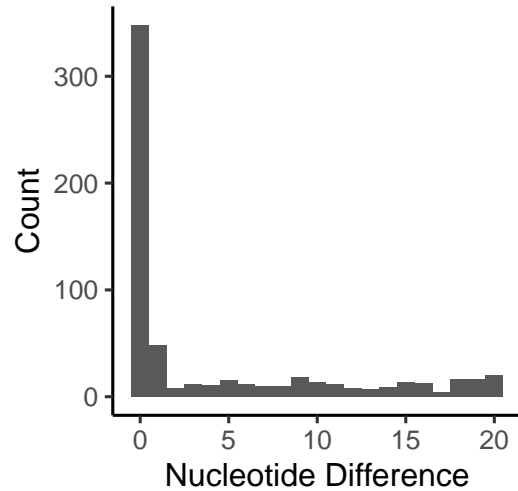
IGHV3-72*01

1698 sequences assigned
158 (9.3%) exact matches, in which:
153 unique CDR3
5 unique J



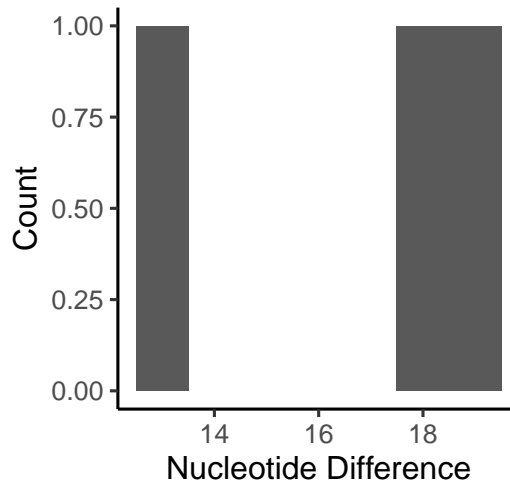
IGHV3-64*01

790 sequences assigned
348 (44.1%) exact matches, in which:
347 unique CDR3
6 unique J



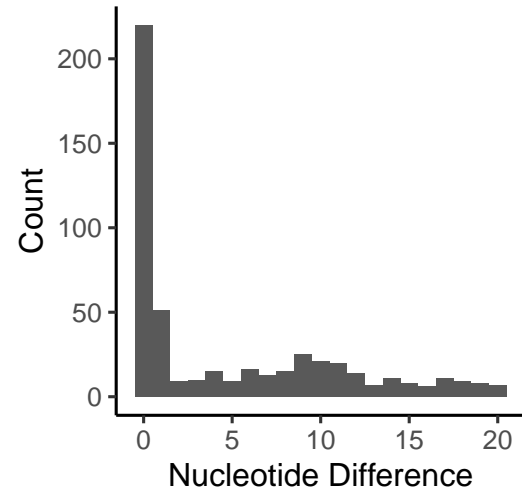
IGHV3-69-1*02

12 sequences assigned
No exact matches.



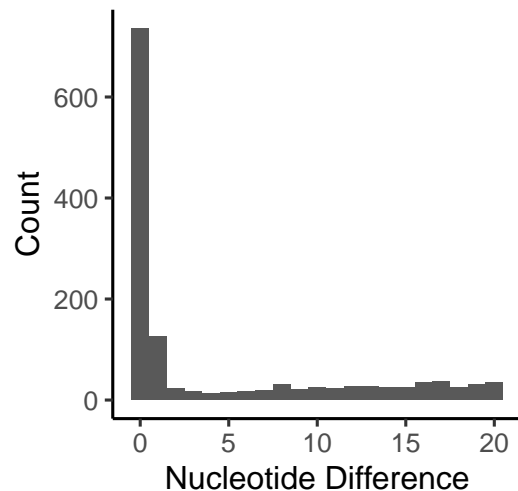
IGHV3-73*01

600 sequences assigned
220 (36.7%) exact matches, in which:
217 unique CDR3
5 unique J



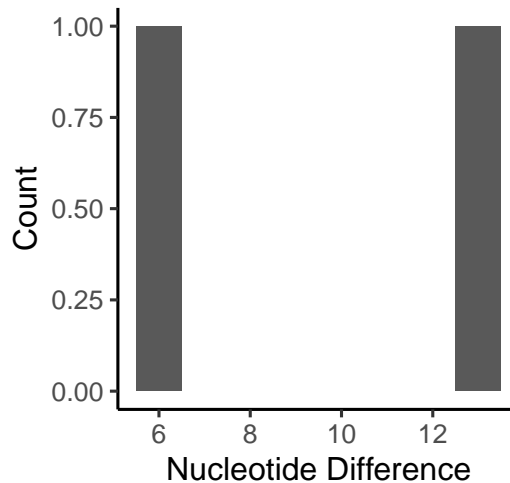
IGHV3-66*02

1642 sequences assigned
736 (44.8%) exact matches, in which:
734 unique CDR3
6 unique J



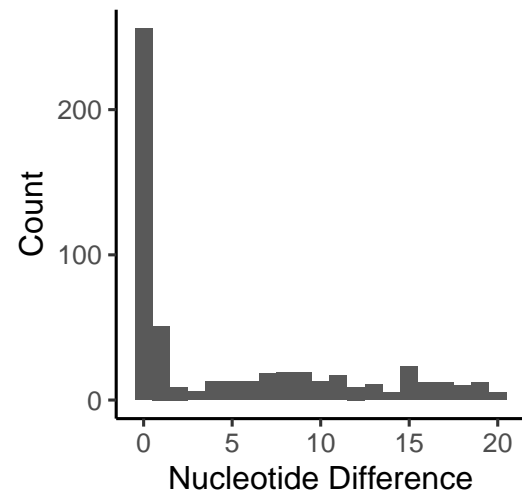
IGHV3-71*01

2 sequences assigned
No exact matches.



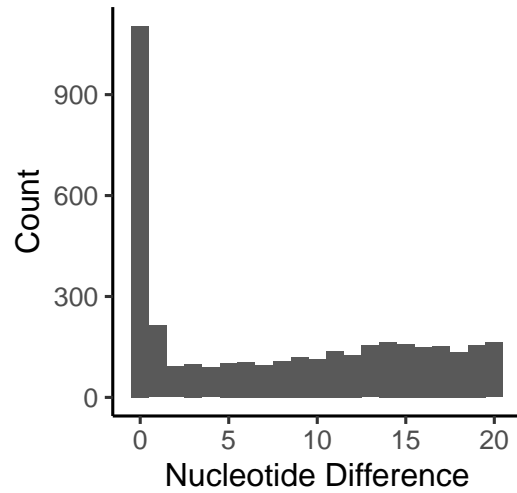
IGHV3-73*02

747 sequences assigned
256 (34.3%) exact matches, in which:
254 unique CDR3
5 unique J



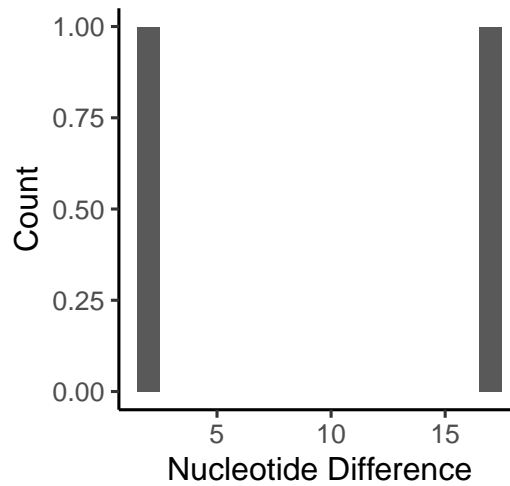
IGHV3-74*01

5146 sequences assigned
1105 (21.5%) exact matches, in which:
1084 unique CDR3
6 unique J



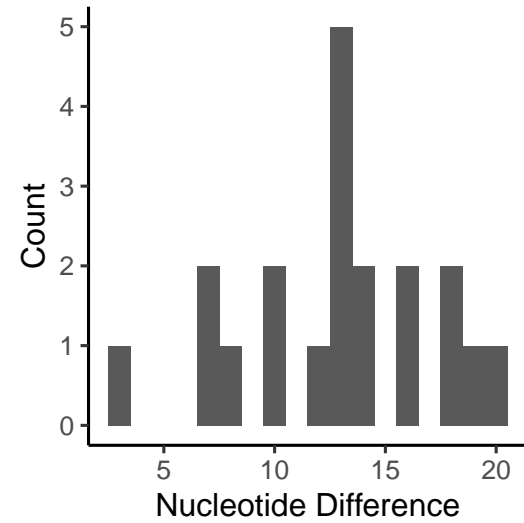
IGHV3-NL1*01

6 sequences assigned
No exact matches.



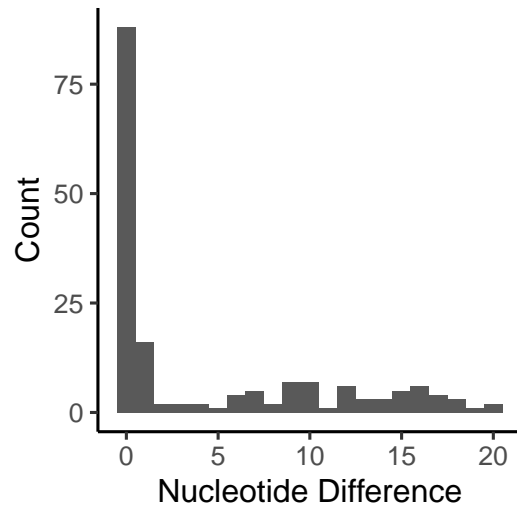
IGHV4-4*08

70 sequences assigned
No exact matches.



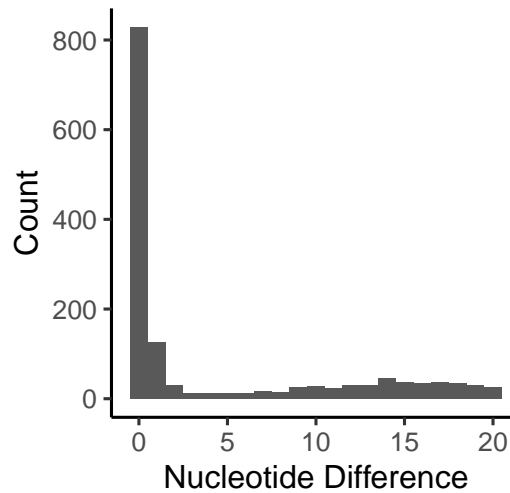
IGHV3-43D*04

195 sequences assigned
88 (45.1%) exact matches, in which:
87 unique CDR3
6 unique J



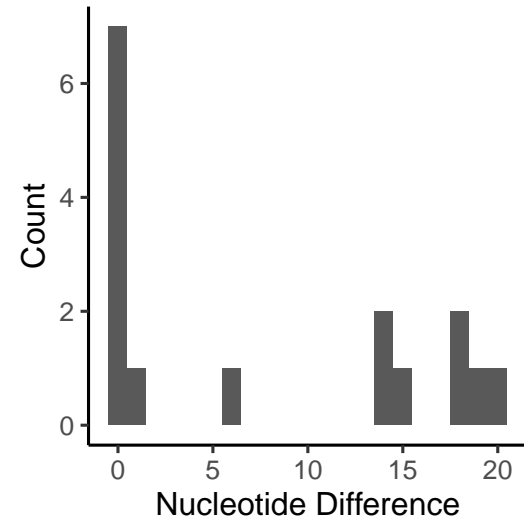
IGHV4-4*02

1878 sequences assigned
829 (44.1%) exact matches, in which:
818 unique CDR3
6 unique J



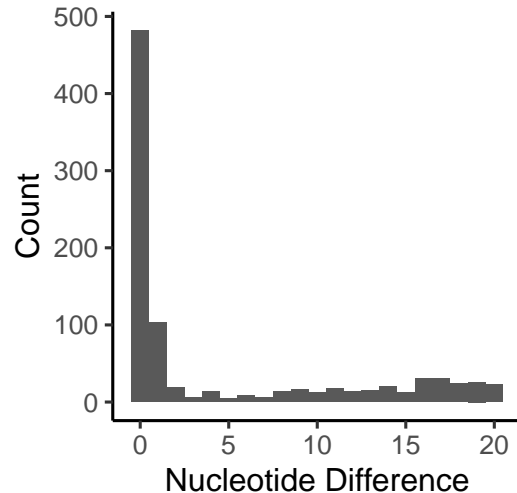
IGHV4-28*01

21 sequences assigned
7 (33.3%) exact matches, in which:
7 unique CDR3
4 unique J



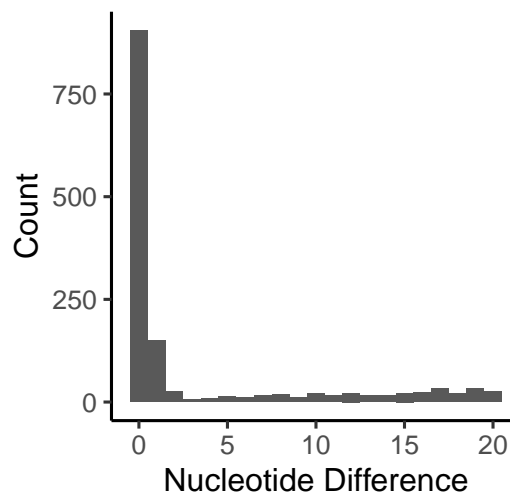
IGHV3-64D*06

1313 sequences assigned
482 (36.7%) exact matches, in which:
476 unique CDR3
6 unique J



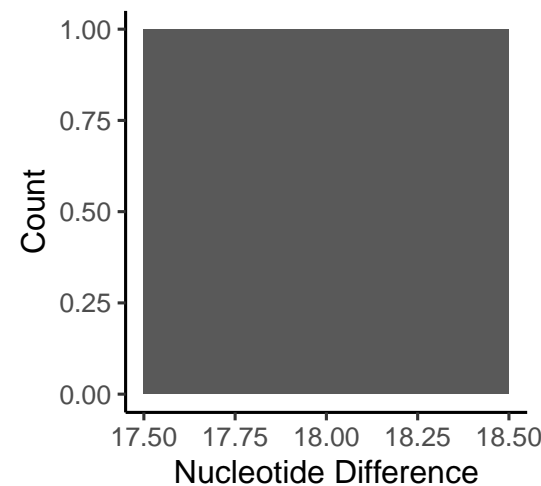
IGHV4-4*07

1942 sequences assigned
905 (46.6%) exact matches, in which:
901 unique CDR3
6 unique J



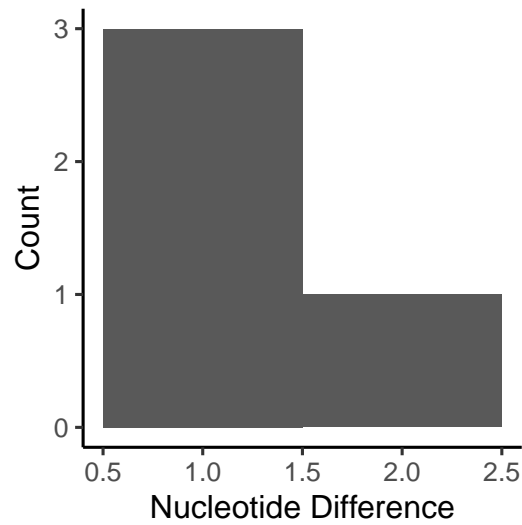
IGHV4-28*03

2 sequences assigned
No exact matches.



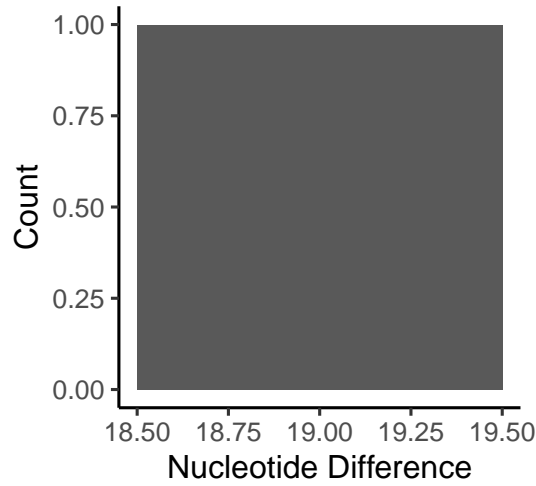
IGHV4-28*04

4 sequences assigned
No exact matches.



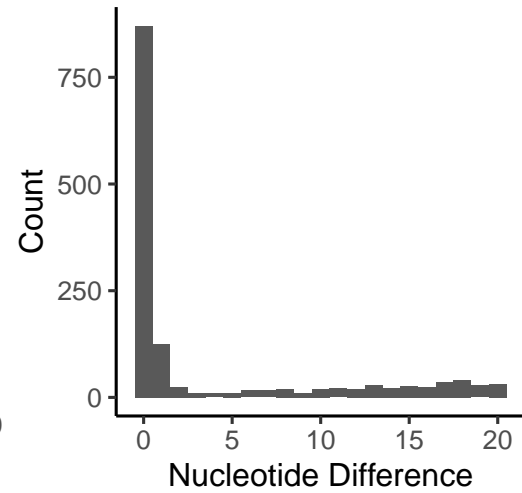
IGHV4-30-4*08

6 sequences assigned
No exact matches.



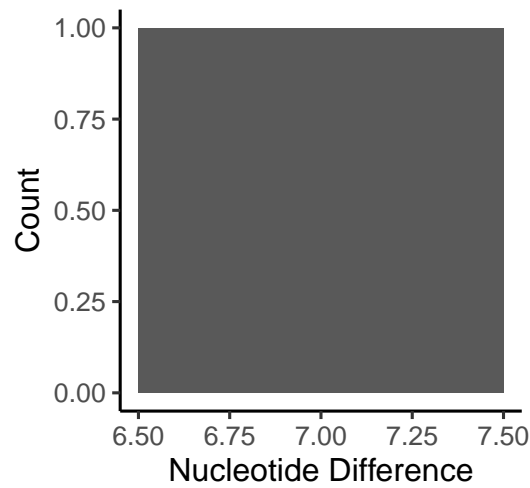
IGHV4-38-2*01

1916 sequences assigned
871 (45.5%) exact matches, in which:
869 unique CDR3
6 unique J



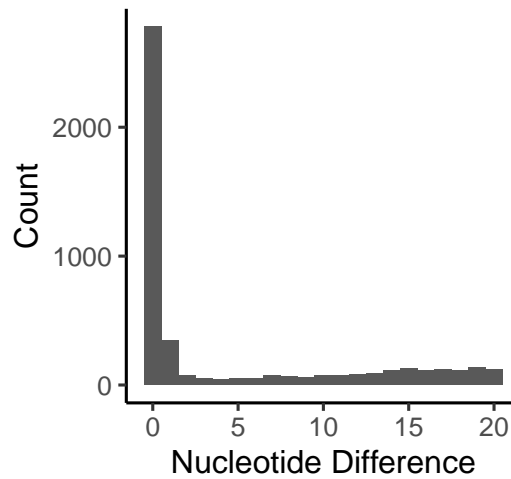
IGHV4-30-4*01

25 sequences assigned
No exact matches.



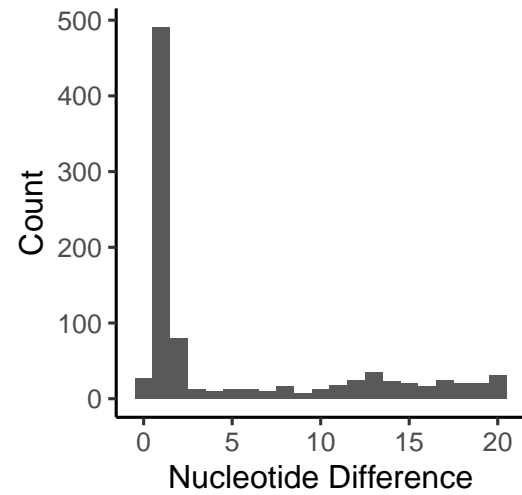
IGHV4-31*03

6586 sequences assigned
2780 (42.2%) exact matches, in which:
2758 unique CDR3
6 unique J



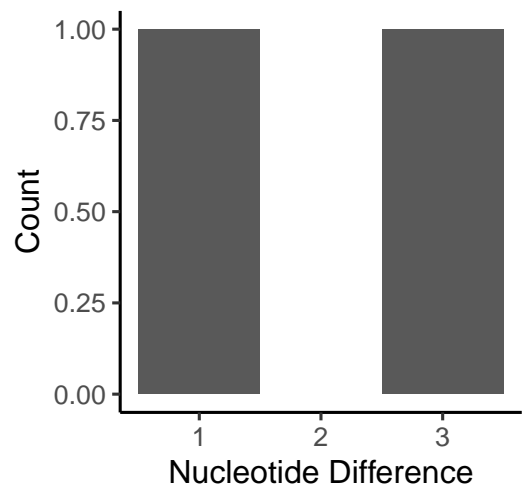
IGHV4-38-2*02

1328 sequences assigned
27 (2%) exact matches, in which:
27 unique CDR3
5 unique J



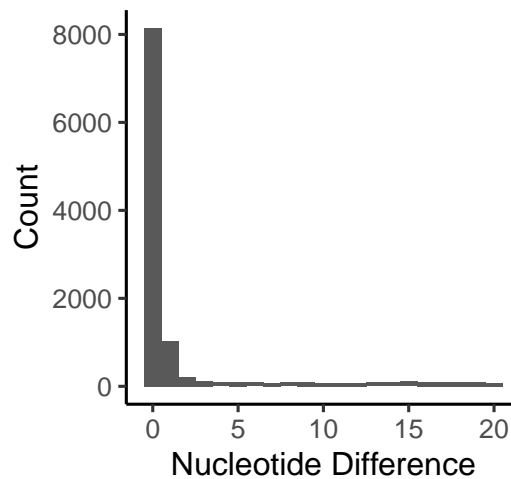
IGHV4-30-4*07

2 sequences assigned
No exact matches.



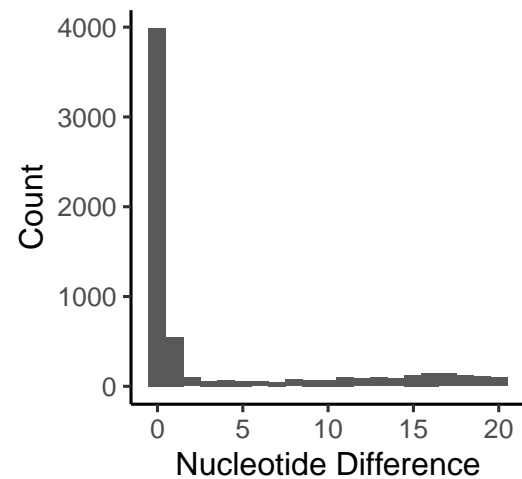
IGHV4-34*01

12262 sequences assigned
8145 (66.4%) exact matches, in which:
8113 unique CDR3
6 unique J



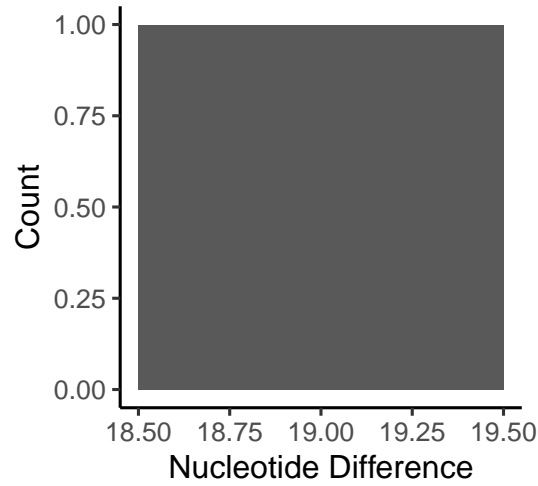
IGHV4-39*01

8403 sequences assigned
3990 (47.5%) exact matches, in which:
3954 unique CDR3
6 unique J



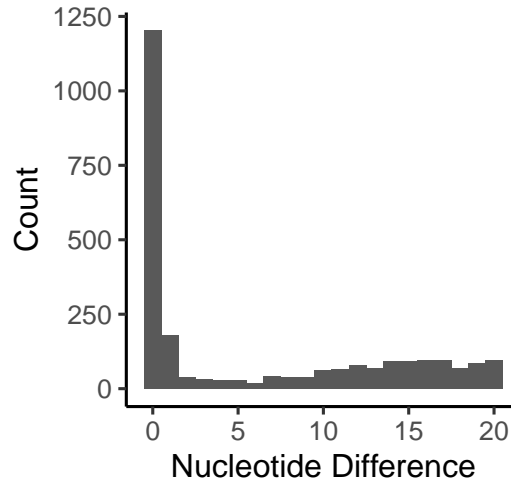
IGHV4-55*01

1 sequences assigned
No exact matches.



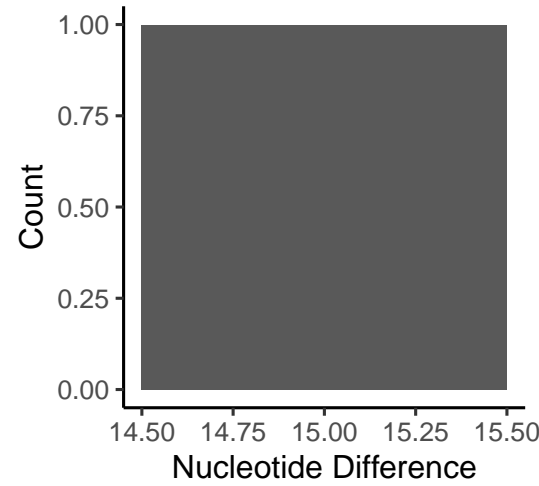
IGHV4-59*08

3518 sequences assigned
1203 (34.2%) exact matches, in which:
1194 unique CDR3
6 unique J



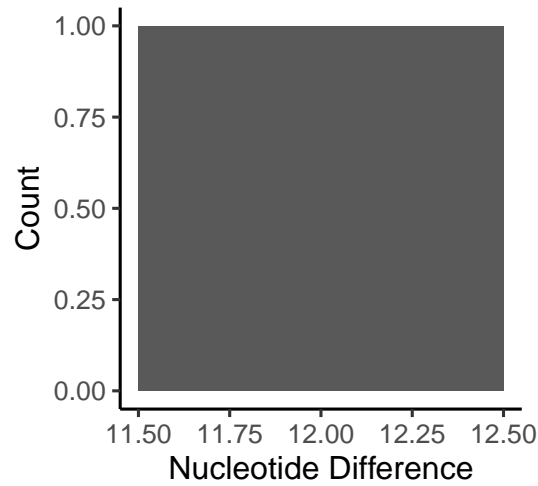
IGHV1/OR15-2*02

1 sequences assigned
No exact matches.



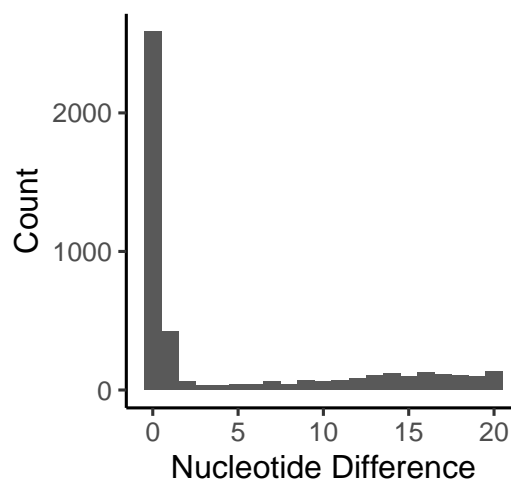
IGHV4-55*08

3 sequences assigned
No exact matches.



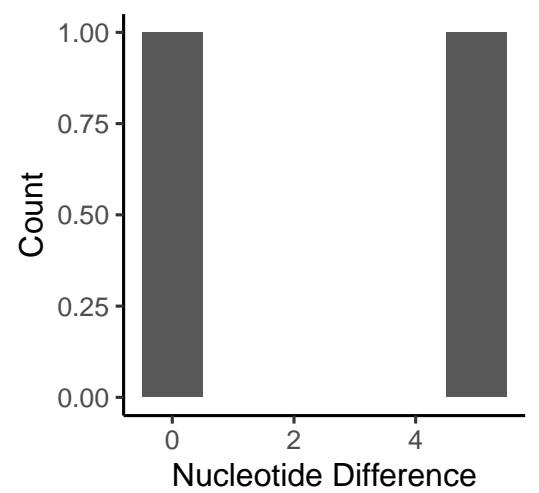
IGHV4-61*02

6140 sequences assigned
2586 (42.1%) exact matches, in which:
2576 unique CDR3
6 unique J



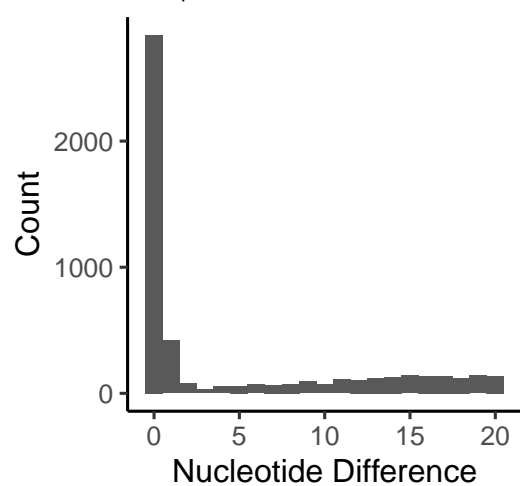
IGHV1/OR15-4*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



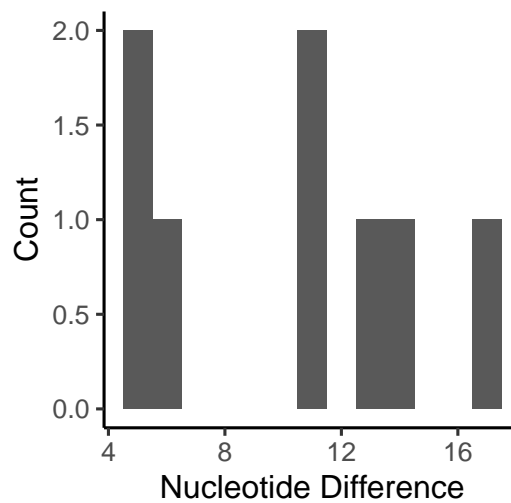
IGHV4-59*01

6881 sequences assigned
2841 (41.3%) exact matches, in which:
2810 unique CDR3
6 unique J



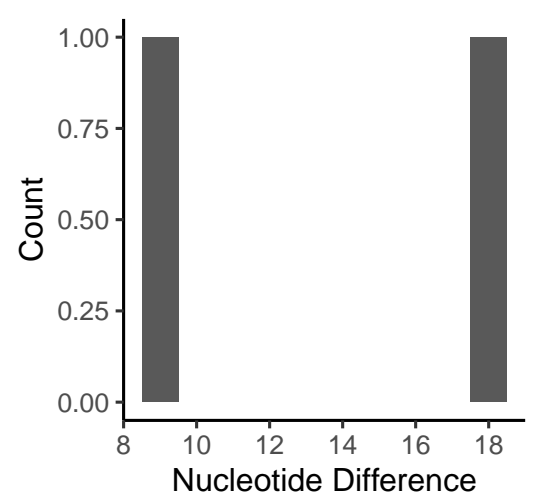
IGHV1/OR15-1*04

9 sequences assigned
No exact matches.



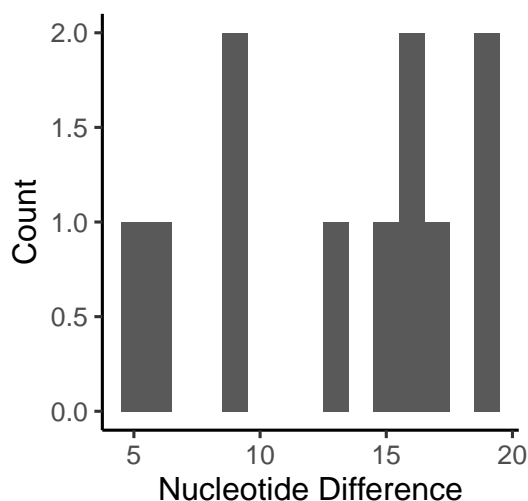
IGHV4/OR15-8*01

6 sequences assigned
No exact matches.



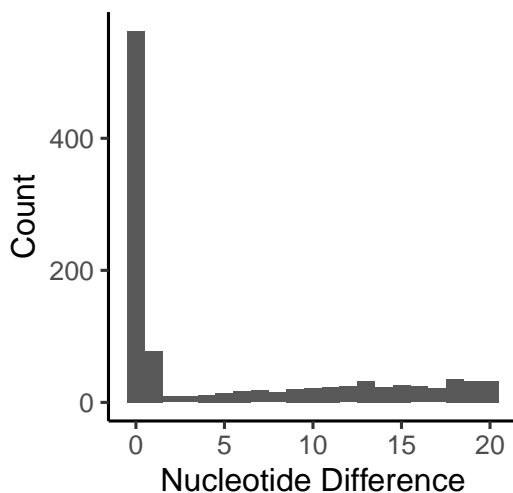
IGHV4/OR15–8*02

27 sequences assigned
No exact matches.



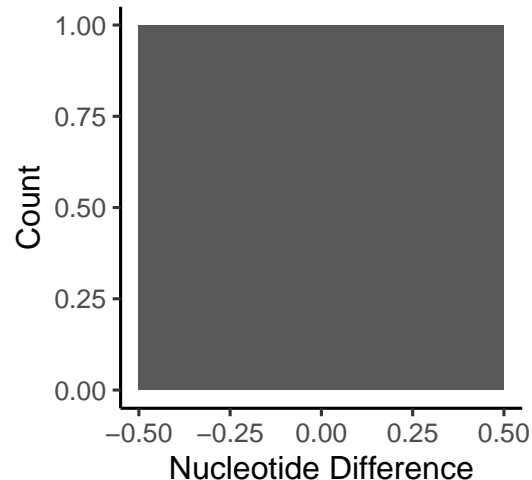
IGHV5–51*03

1473 sequences assigned
563 (38.2%) exact matches, in which:
560 unique CDR3
6 unique J



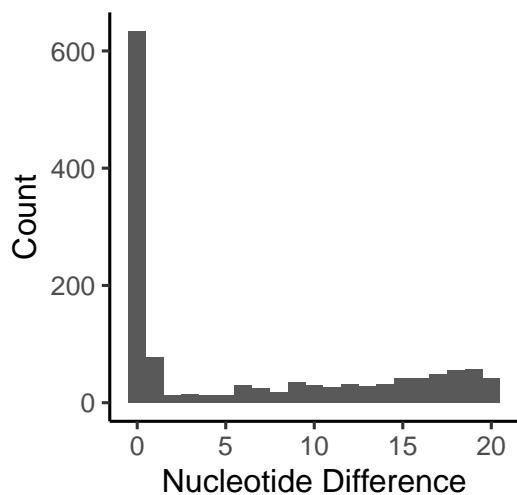
IGHV3/OR16–6*02

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
0 unique J



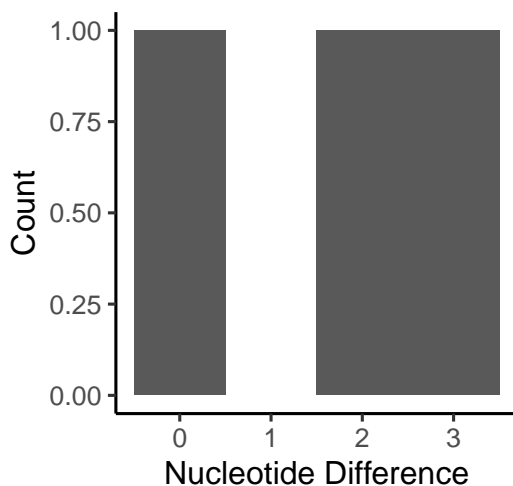
IGHV5–10–1*01

1766 sequences assigned
634 (35.9%) exact matches, in which:
622 unique CDR3
6 unique J



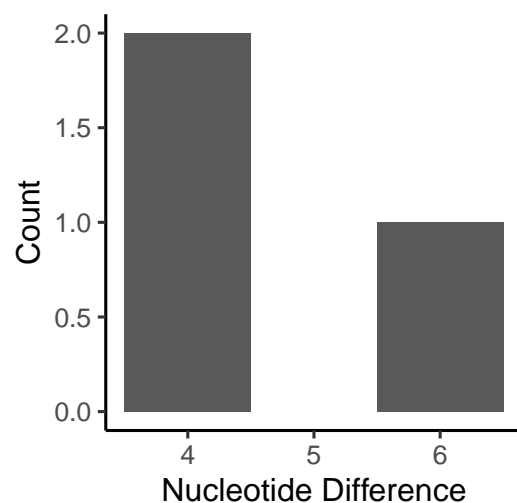
IGHV5–78*01

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



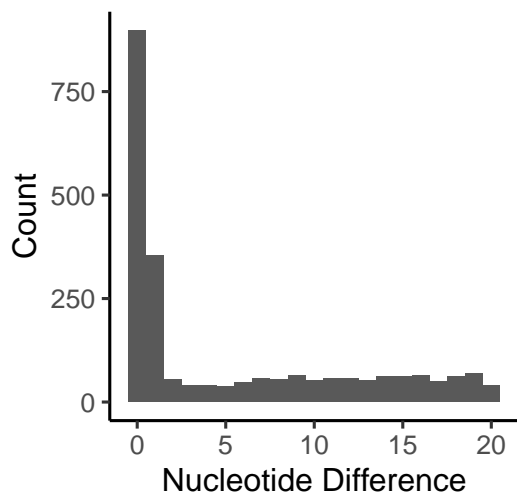
IGHV3/OR16–8*01

3 sequences assigned
No exact matches.



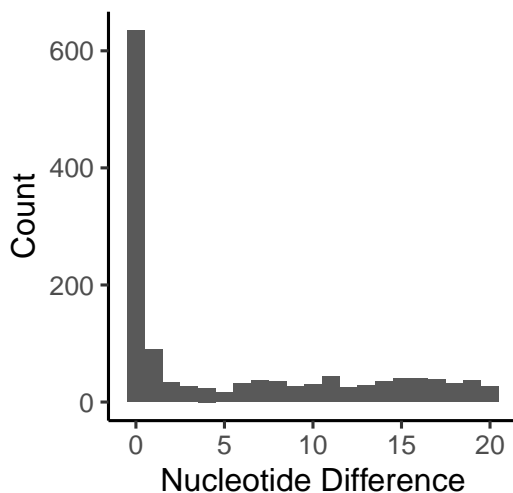
IGHV5–51*01

2926 sequences assigned
898 (30.7%) exact matches, in which:
892 unique CDR3
6 unique J



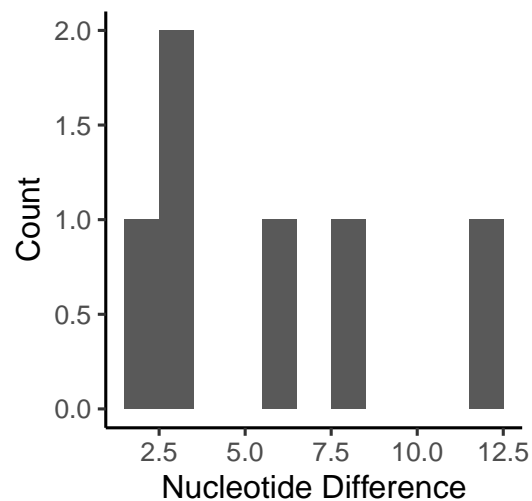
IGHV6–1*01

1506 sequences assigned
635 (42.2%) exact matches, in which:
634 unique CDR3
6 unique J



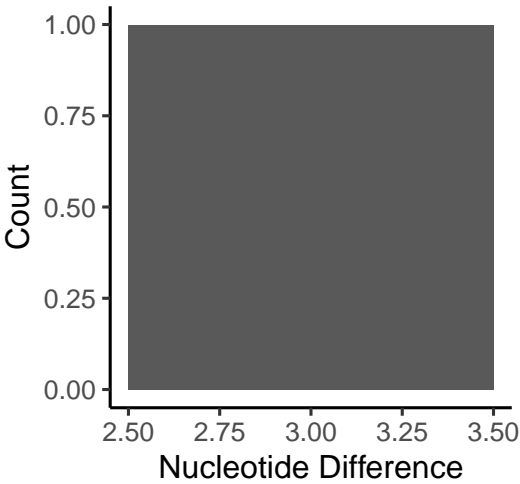
IGHV3/OR16–9*01

6 sequences assigned
No exact matches.



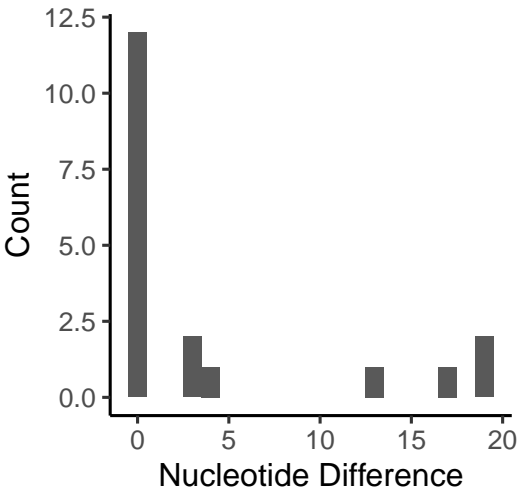
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



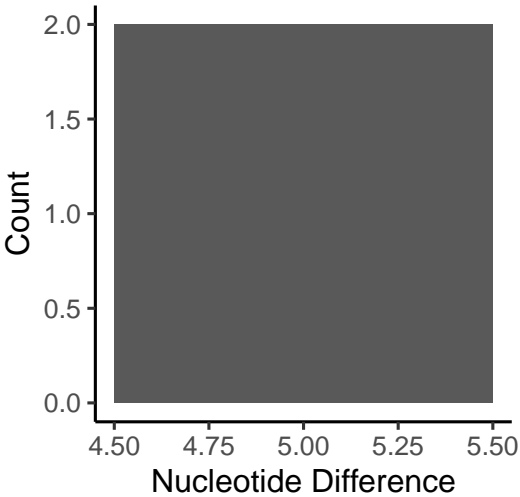
IGHV7-4-1*01

20 sequences assigned
12 (60%) exact matches, in which:
12 unique CDR3
3 unique J



IGHV7-81*01

2 sequences assigned
No exact matches.





Warning – no inferred sequences found.