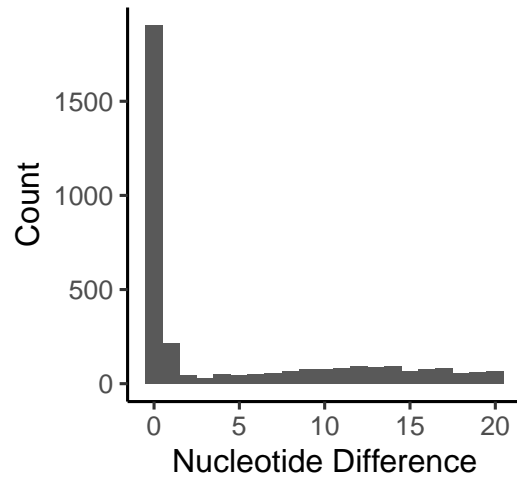


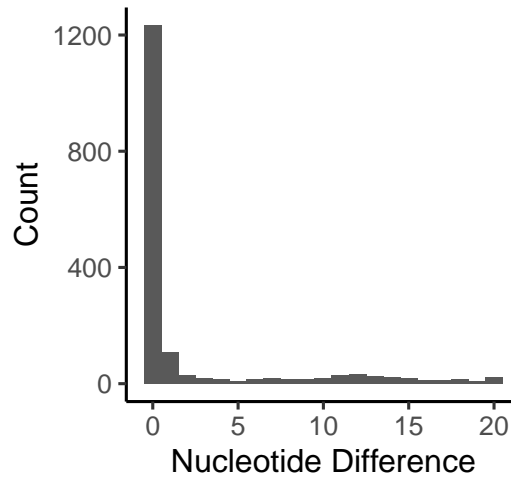
IGHV1-2*02

4268 sequences assigned
1903 (44.6%) exact matches, in which:
1895 unique CDR3
7 unique J



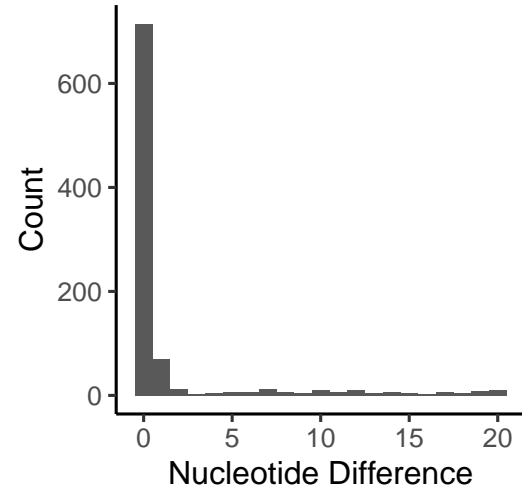
IGHV1-8*01

1880 sequences assigned
1233 (65.6%) exact matches, in which:
1228 unique CDR3
7 unique J



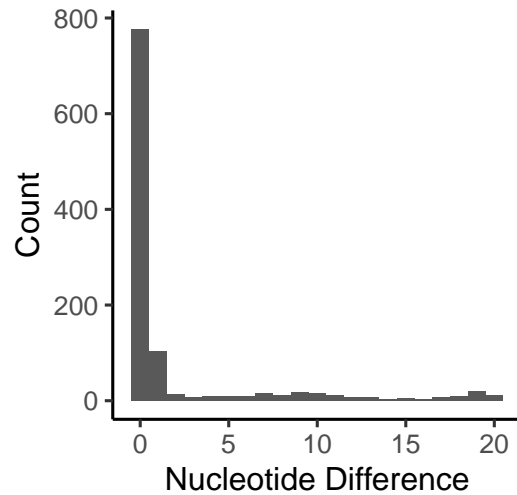
IGHV1-24*01

984 sequences assigned
715 (72.7%) exact matches, in which:
713 unique CDR3
7 unique J



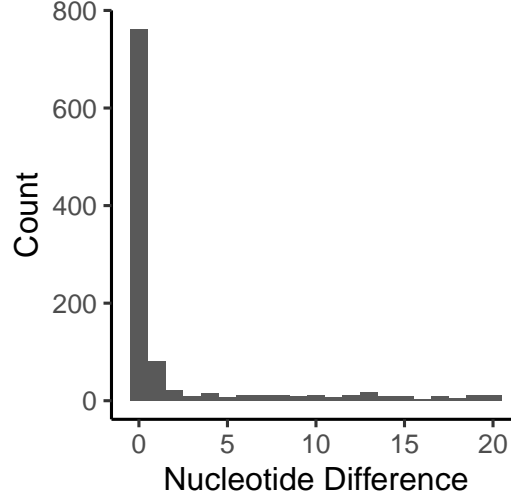
IGHV1-2*04

1146 sequences assigned
777 (67.8%) exact matches, in which:
772 unique CDR3
7 unique J



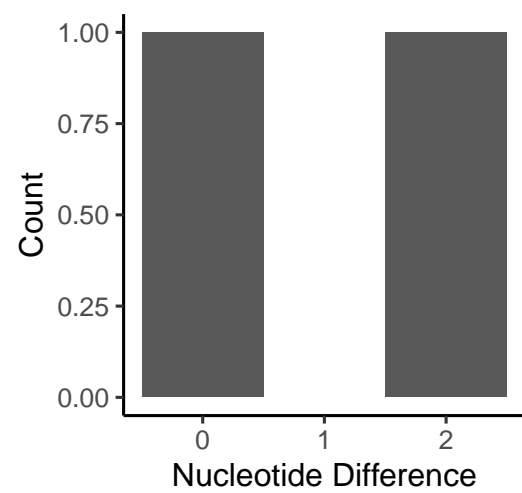
IGHV1-8*03

1103 sequences assigned
762 (69.1%) exact matches, in which:
760 unique CDR3
6 unique J



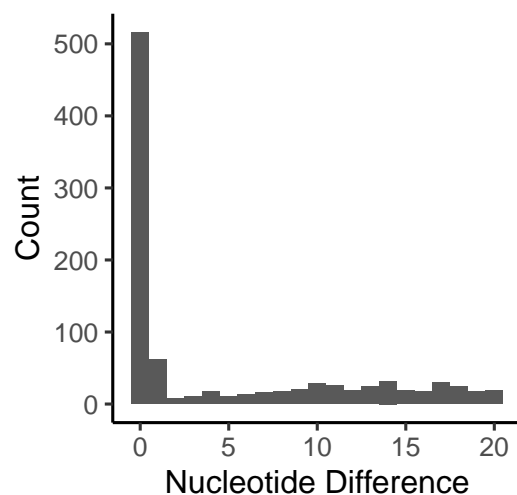
IGHV1-45*02

12 sequences assigned
1 (8.3%) exact matches, in which:
1 unique CDR3
1 unique J



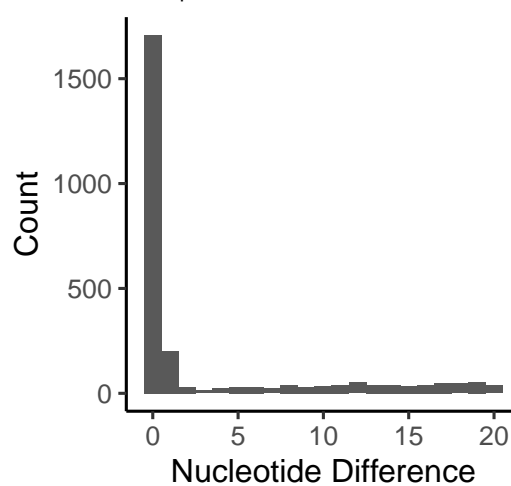
IGHV1-3*01

1270 sequences assigned
516 (40.6%) exact matches, in which:
512 unique CDR3
6 unique J



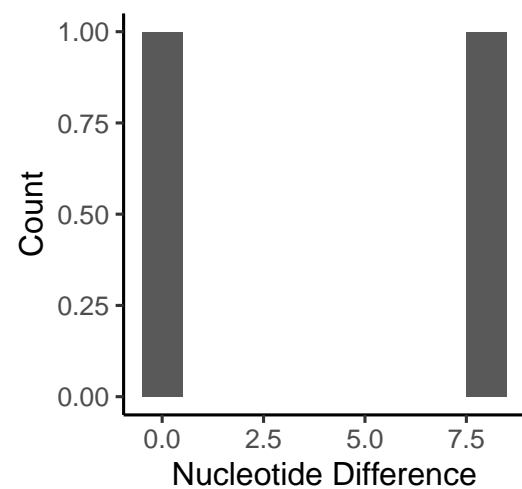
IGHV1-18*01

3188 sequences assigned
1708 (53.6%) exact matches, in which:
1705 unique CDR3
7 unique J



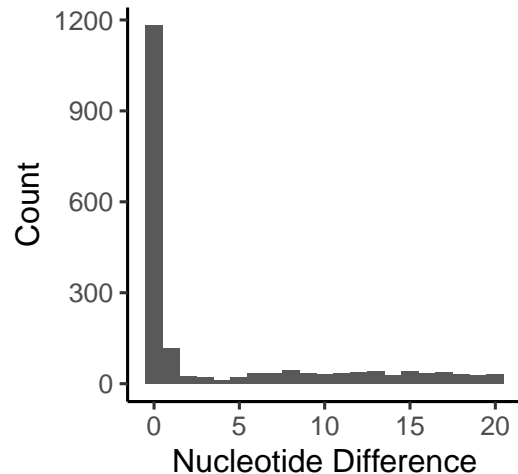
IGHV1-45*03

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



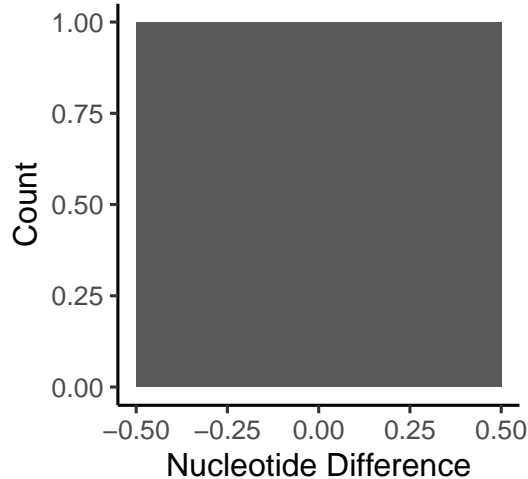
IGHV1-46*01

2507 sequences assigned
1182 (47.1%) exact matches, in which:
1178 unique CDR3
7 unique J



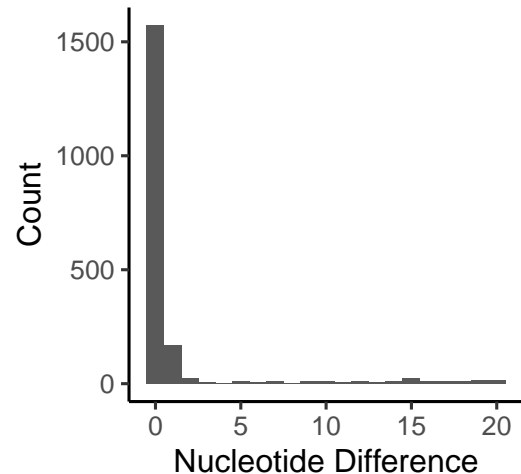
IGHV1-68*02

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



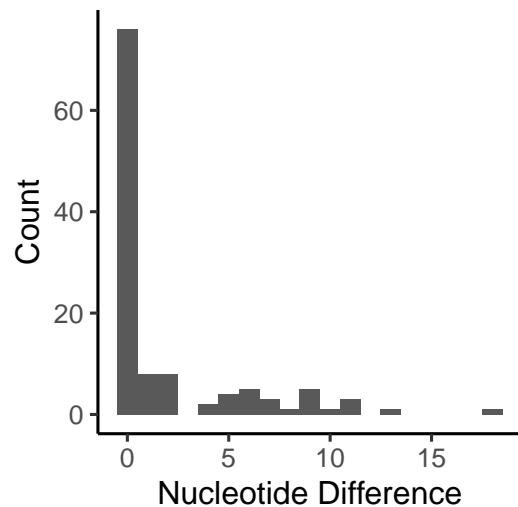
IGHV1-69*06

2258 sequences assigned
1572 (69.6%) exact matches, in which:
1568 unique CDR3
7 unique J



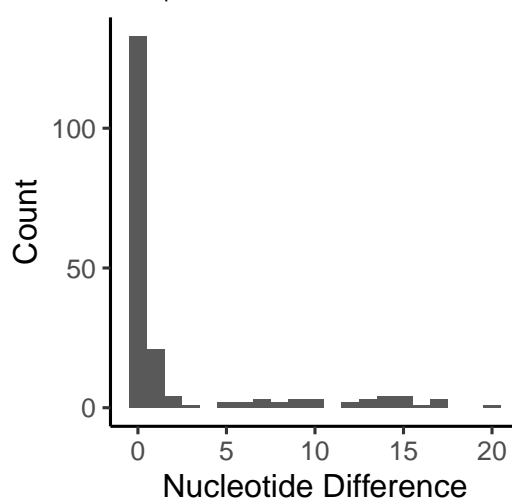
IGHV1-58*01

121 sequences assigned
76 (62.8%) exact matches, in which:
76 unique CDR3
5 unique J



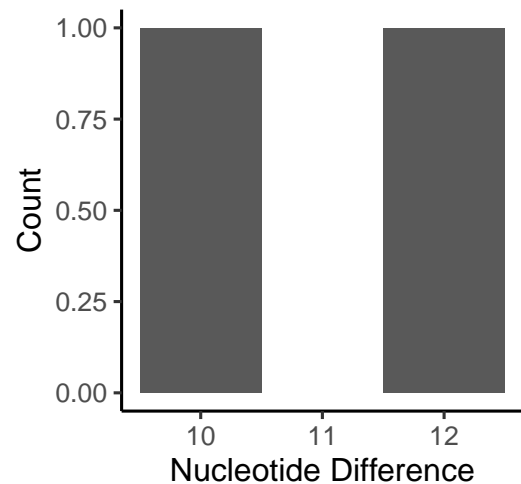
IGHV1-69-2*01

222 sequences assigned
133 (59.9%) exact matches, in which:
132 unique CDR3
7 unique J



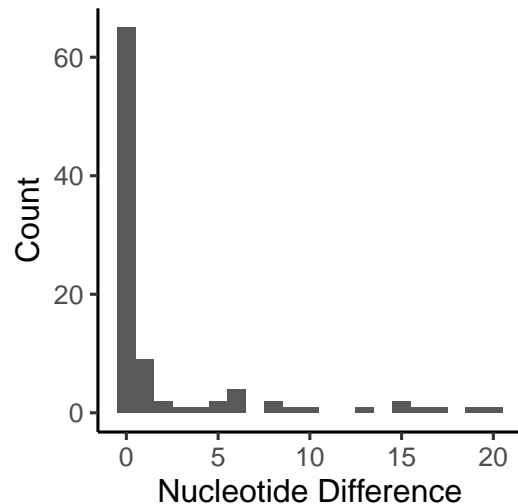
IGHV1-NL1*01

2 sequences assigned
No exact matches.



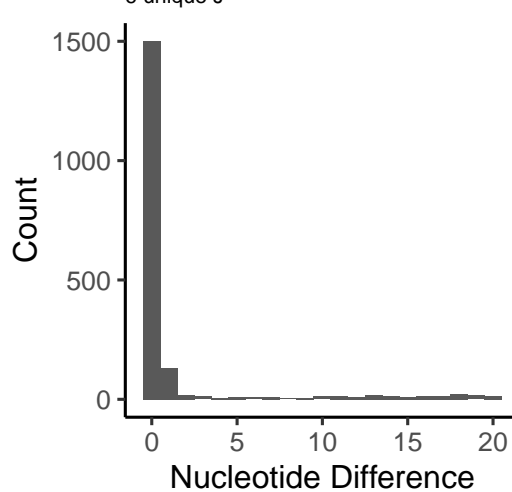
IGHV1-58*02

115 sequences assigned
65 (56.5%) exact matches, in which:
65 unique CDR3
5 unique J



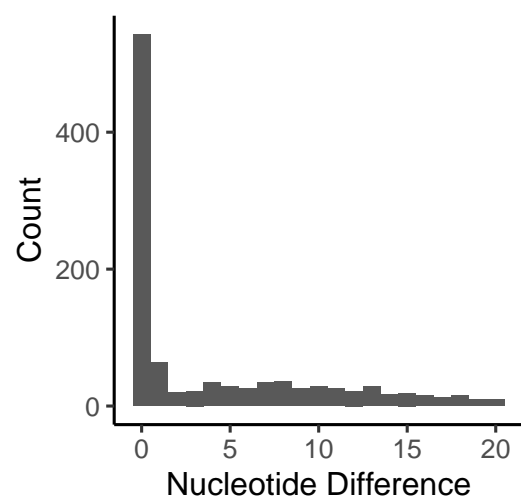
IGHV1-69*04

2154 sequences assigned
1501 (69.7%) exact matches, in which:
1493 unique CDR3
6 unique J



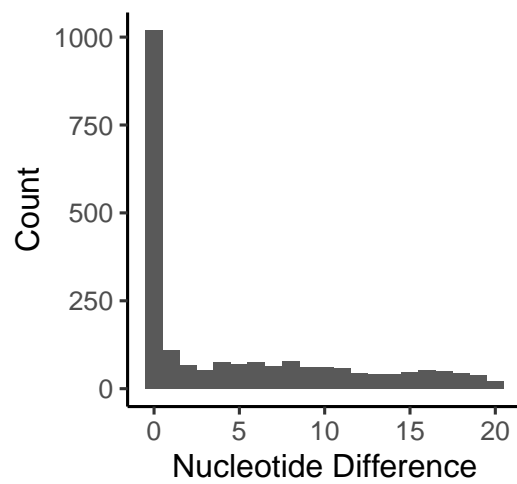
IGHV2-5*01

1119 sequences assigned
543 (48.5%) exact matches, in which:
542 unique CDR3
6 unique J



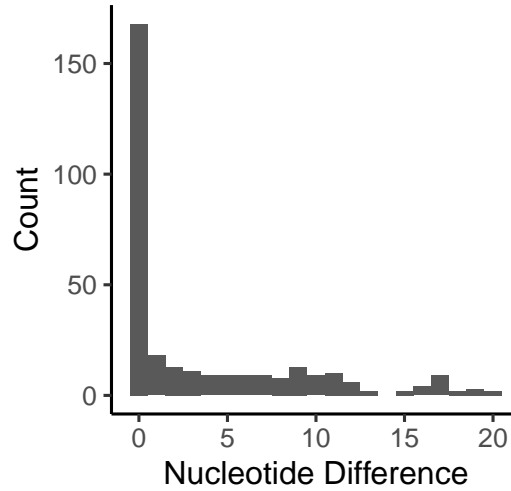
IGHV2-5*02

2381 sequences assigned
1019 (42.8%) exact matches, in which:
1019 unique CDR3
6 unique J



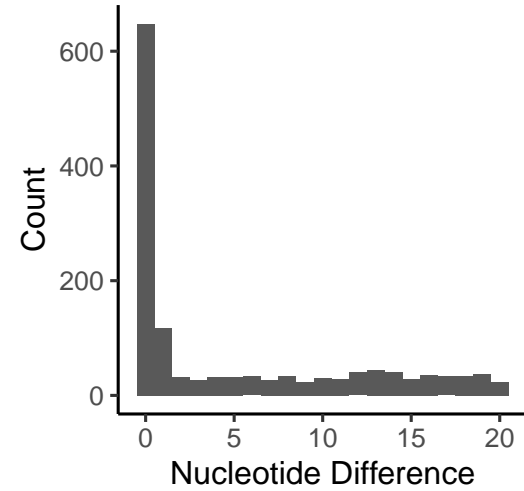
IGHV2-70*15

349 sequences assigned
168 (48.1%) exact matches, in which:
168 unique CDR3
5 unique J



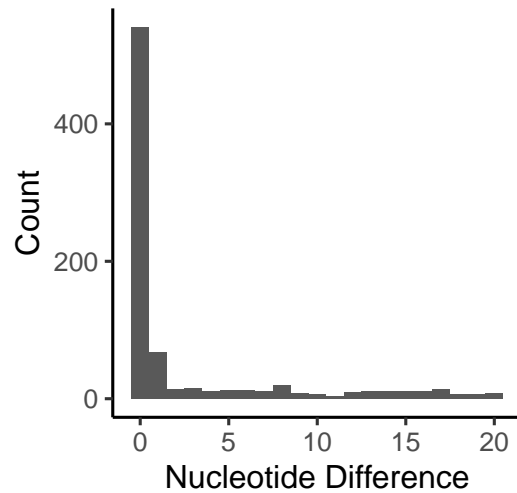
IGHV3-11*01

1753 sequences assigned
648 (37%) exact matches, in which:
642 unique CDR3
6 unique J



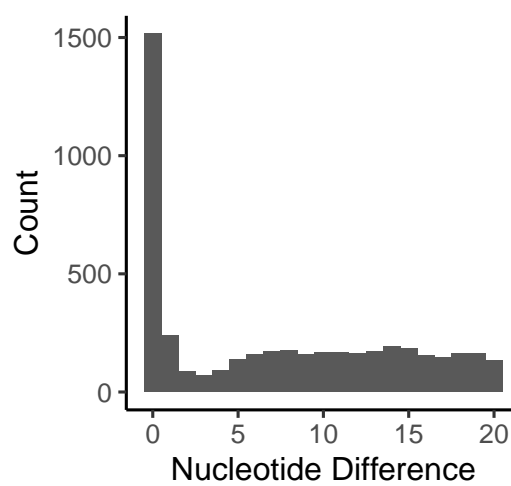
IGHV2-26*01

852 sequences assigned
541 (63.5%) exact matches, in which:
537 unique CDR3
6 unique J



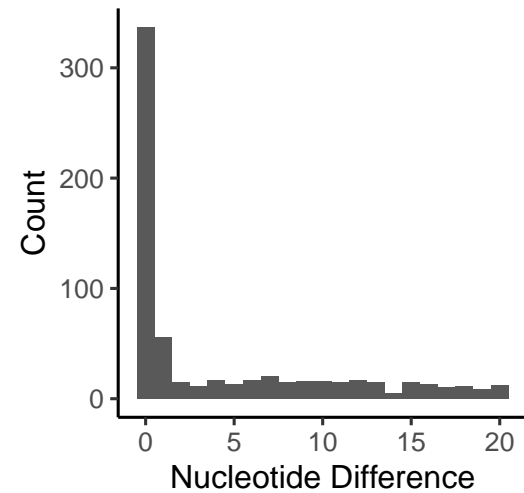
IGHV3-7*01

6023 sequences assigned
1516 (25.2%) exact matches, in which:
1509 unique CDR3
7 unique J



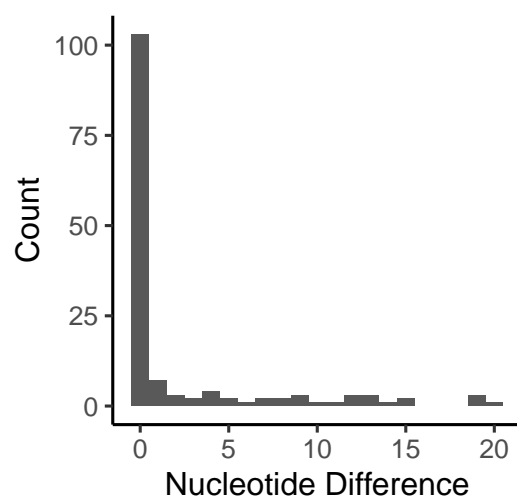
IGHV3-11*04

818 sequences assigned
337 (41.2%) exact matches, in which:
337 unique CDR3
7 unique J



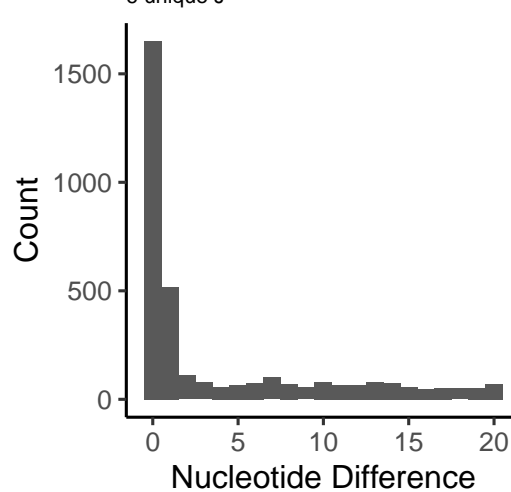
IGHV2-70*01

151 sequences assigned
103 (68.2%) exact matches, in which:
103 unique CDR3
5 unique J



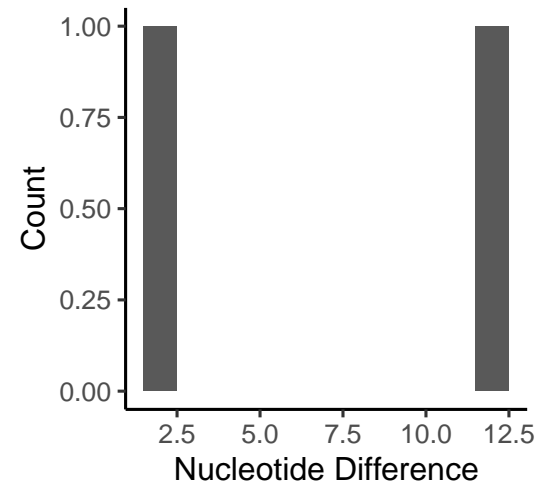
IGHV3-9*01

3882 sequences assigned
1651 (42.5%) exact matches, in which:
1645 unique CDR3
6 unique J



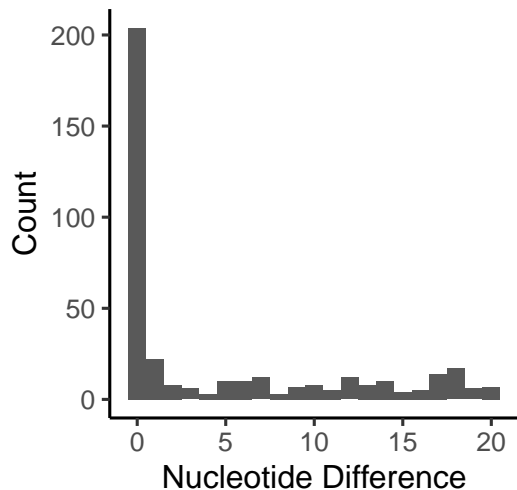
IGHV3-11*06

5 sequences assigned
No exact matches.



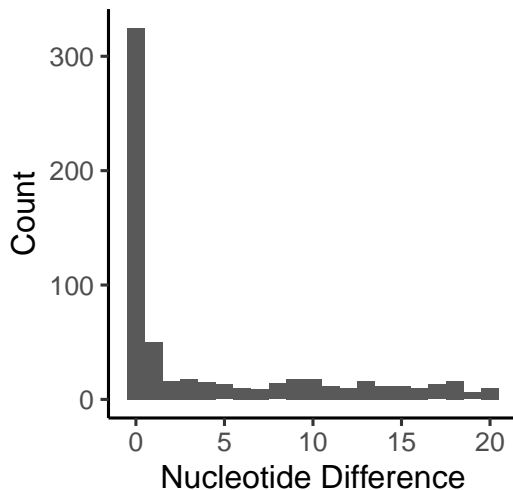
IGHV3-13*01

446 sequences assigned
204 (45.7%) exact matches, in which:
204 unique CDR3
6 unique J



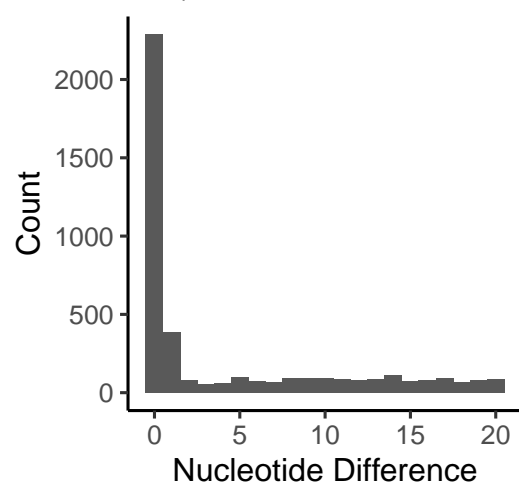
IGHV3-20*04

745 sequences assigned
325 (43.6%) exact matches, in which:
323 unique CDR3
7 unique J



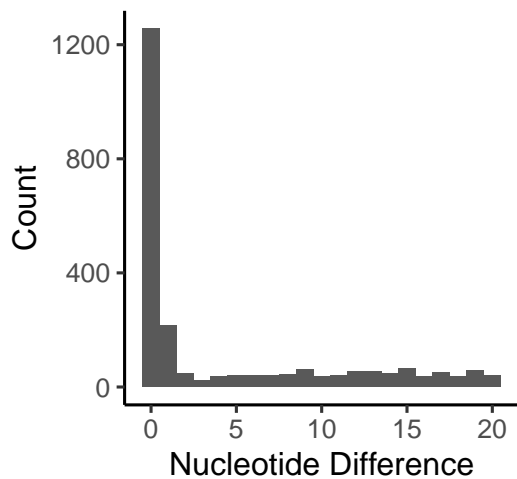
IGHV3-33*01

5036 sequences assigned
2288 (45.4%) exact matches, in which:
2276 unique CDR3
7 unique J



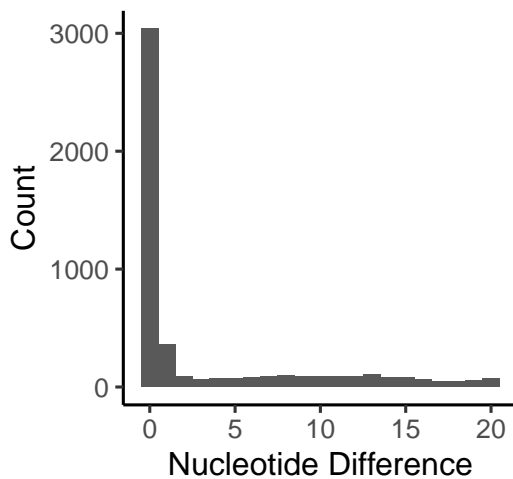
IGHV3-15*01

2814 sequences assigned
1256 (44.6%) exact matches, in which:
1247 unique CDR3
7 unique J



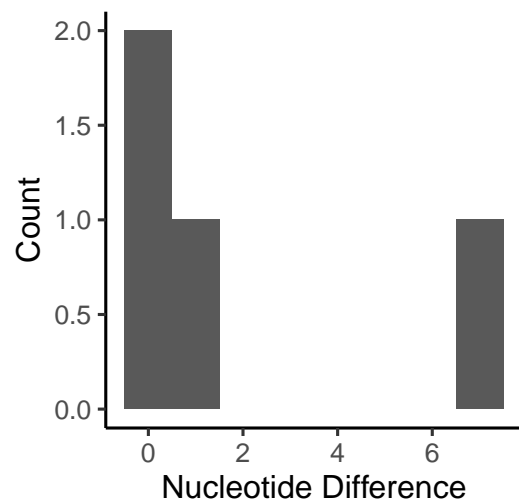
IGHV3-21*01

5460 sequences assigned
3039 (55.7%) exact matches, in which:
3028 unique CDR3
7 unique J



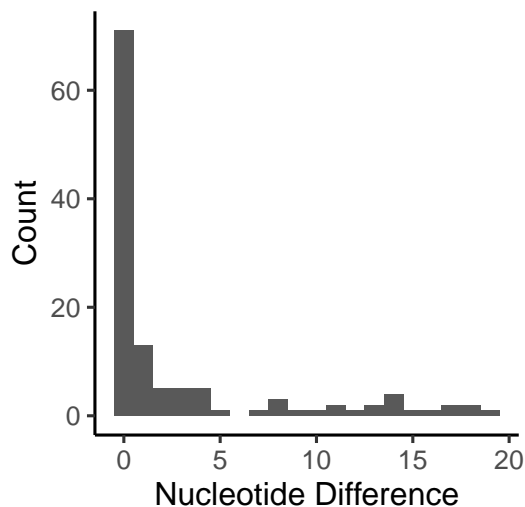
IGHV3-35*01

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



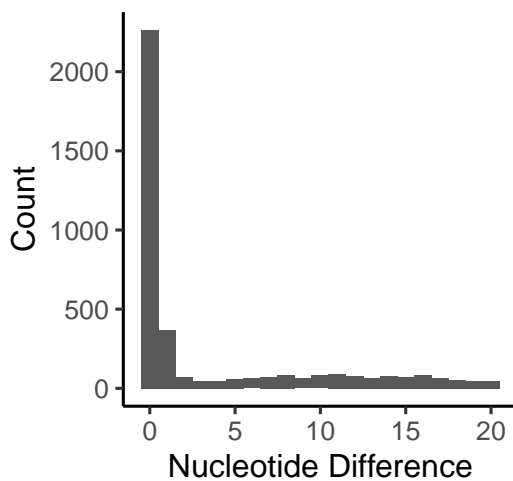
IGHV3-20*01

130 sequences assigned
71 (54.6%) exact matches, in which:
71 unique CDR3
5 unique J



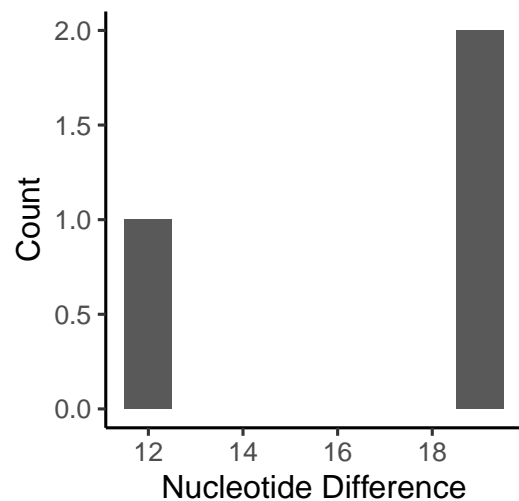
IGHV3-30-3*01

4515 sequences assigned
2263 (50.1%) exact matches, in which:
2250 unique CDR3
6 unique J



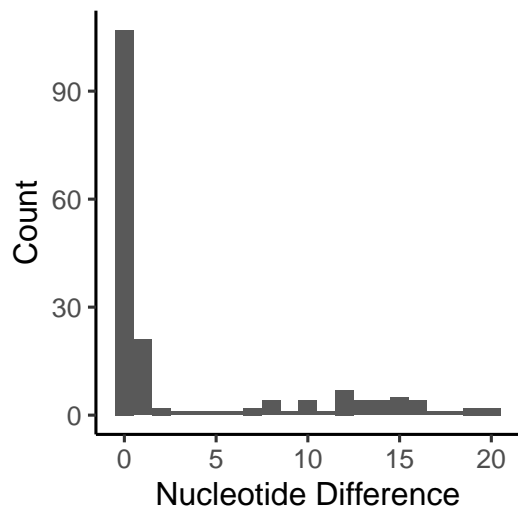
IGHV3-41*02

3 sequences assigned
No exact matches.



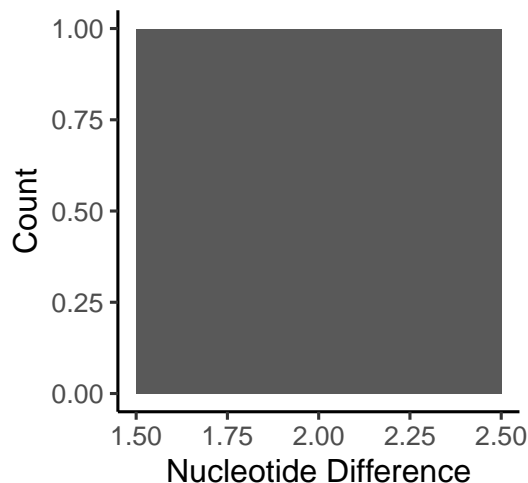
IGHV3-43*01

203 sequences assigned
107 (52.7%) exact matches, in which:
103 unique CDR3
6 unique J



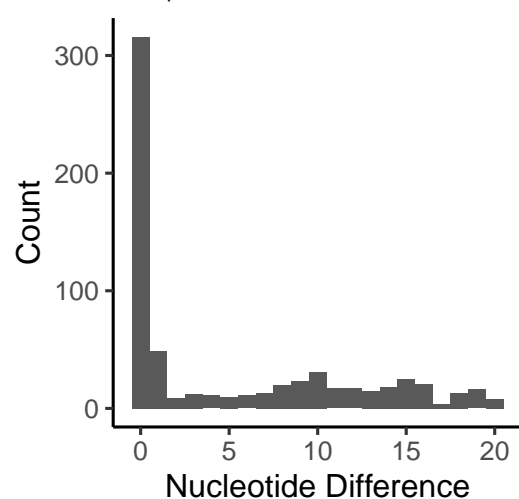
IGHV3-47*02

1 sequences assigned
No exact matches.



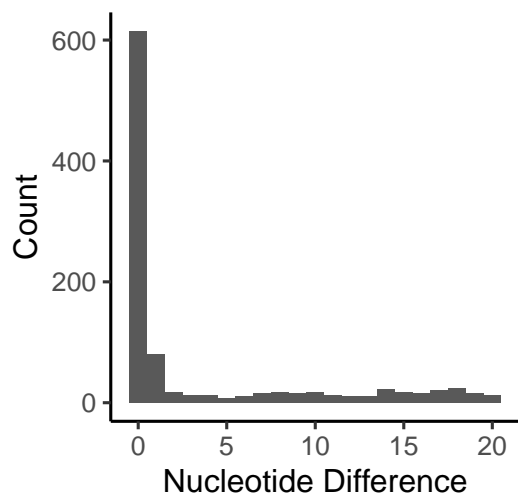
IGHV3-49*04

738 sequences assigned
316 (42.8%) exact matches, in which:
314 unique CDR3
6 unique J



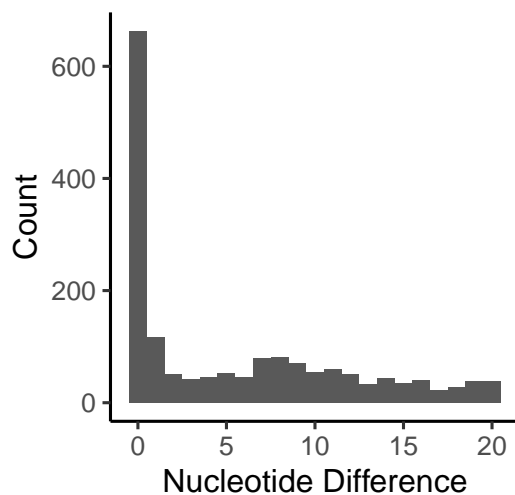
IGHV3-43*02

1156 sequences assigned
615 (53.2%) exact matches, in which:
614 unique CDR3
7 unique J



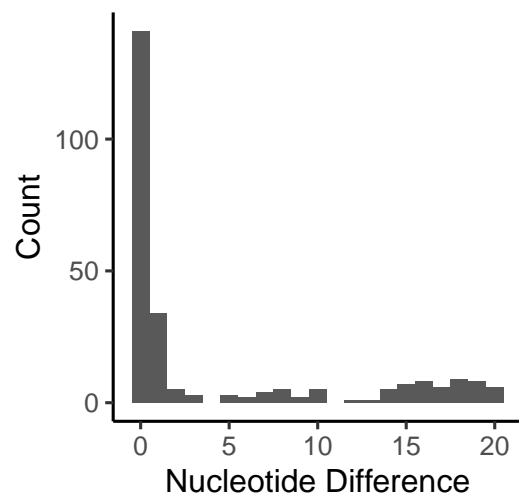
IGHV3-48*02

2075 sequences assigned
663 (32%) exact matches, in which:
653 unique CDR3
7 unique J



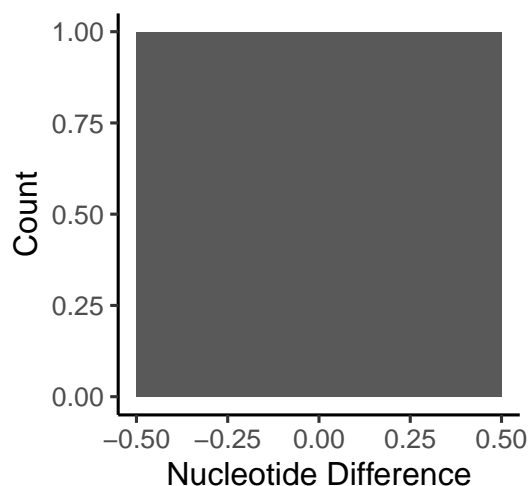
IGHV3-49*05

318 sequences assigned
141 (44.3%) exact matches, in which:
141 unique CDR3
6 unique J



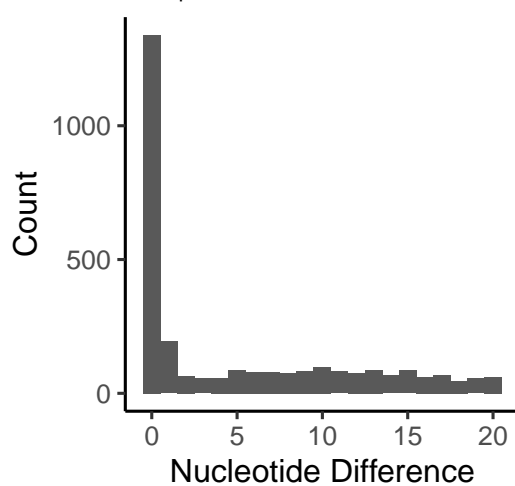
IGHV3-47*01

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



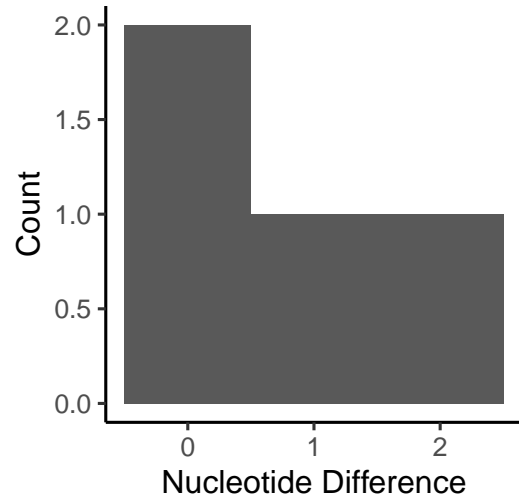
IGHV3-48*03

3351 sequences assigned
1339 (40%) exact matches, in which:
1331 unique CDR3
7 unique J



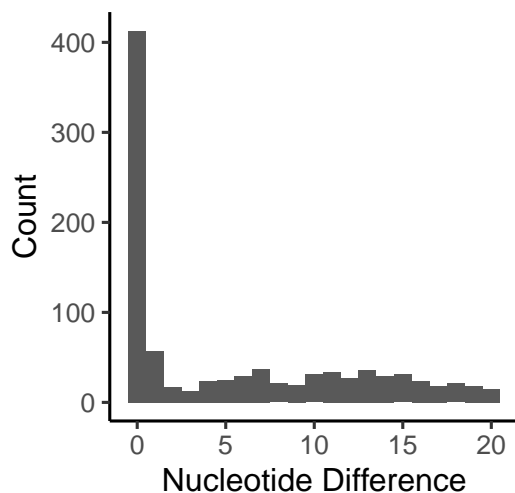
IGHV3-52*01

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



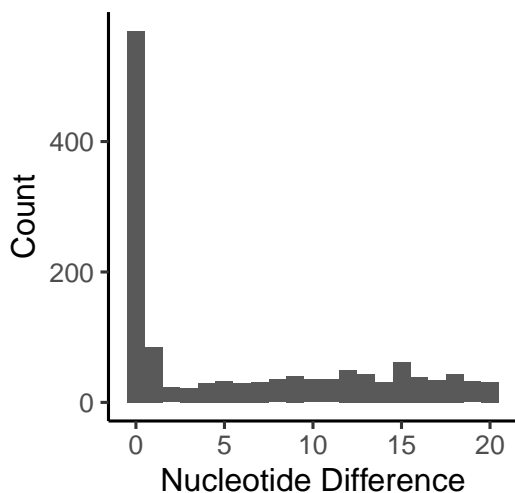
IGHV3-53*01

1190 sequences assigned
413 (34.7%) exact matches, in which:
412 unique CDR3
7 unique J



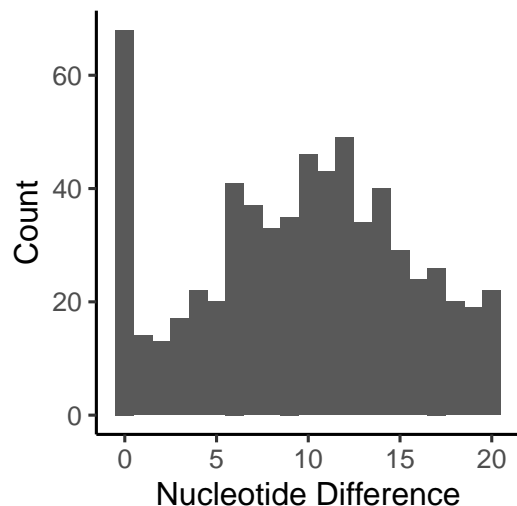
IGHV3-66*01

1648 sequences assigned
570 (34.6%) exact matches, in which:
566 unique CDR3
6 unique J



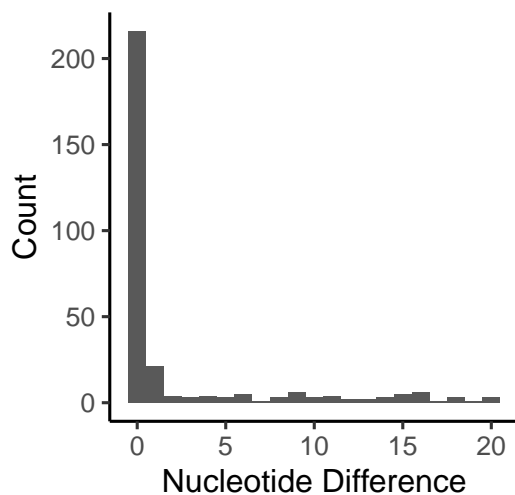
IGHV3-72*01

828 sequences assigned
68 (8.2%) exact matches, in which:
68 unique CDR3
6 unique J



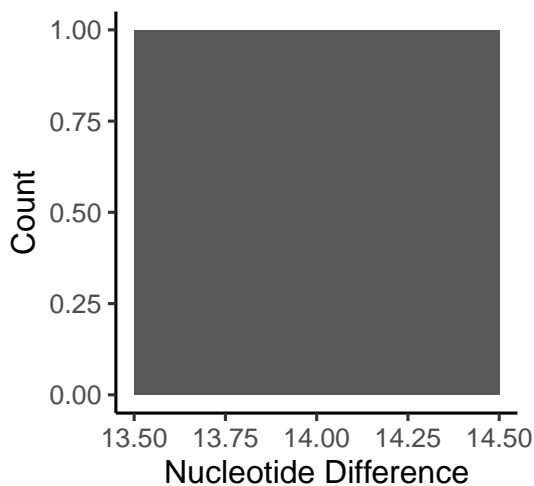
IGHV3-53*04

339 sequences assigned
216 (63.7%) exact matches, in which:
216 unique CDR3
6 unique J



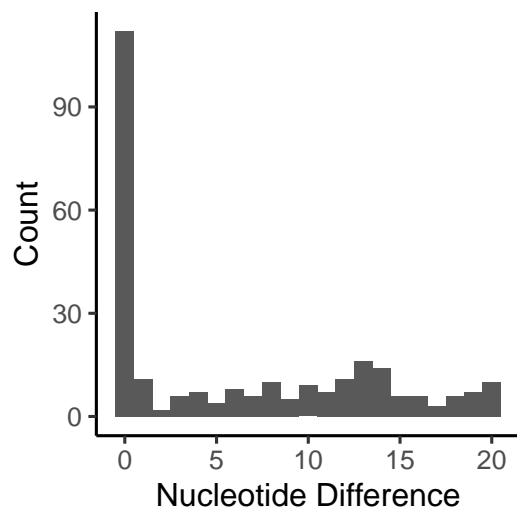
IGHV3-69-1*01

6 sequences assigned
No exact matches.



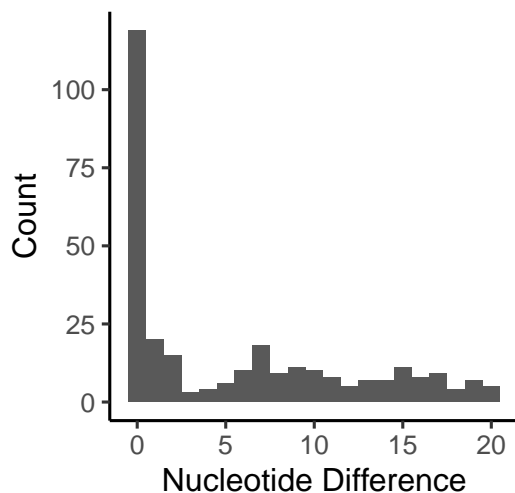
IGHV3-73*01

324 sequences assigned
112 (34.6%) exact matches, in which:
112 unique CDR3
4 unique J



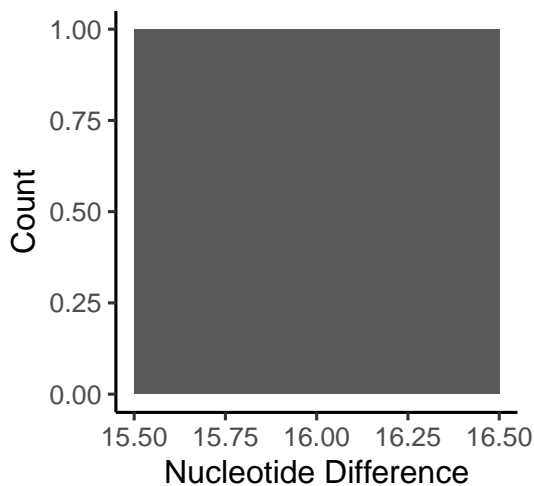
IGHV3-64*01

339 sequences assigned
119 (35.1%) exact matches, in which:
119 unique CDR3
5 unique J



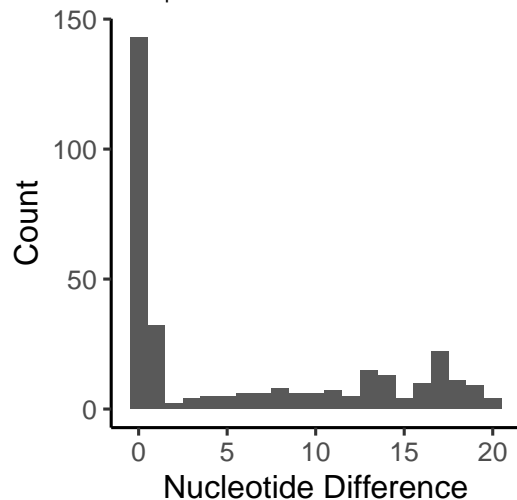
IGHV3-69-1*02

4 sequences assigned
No exact matches.



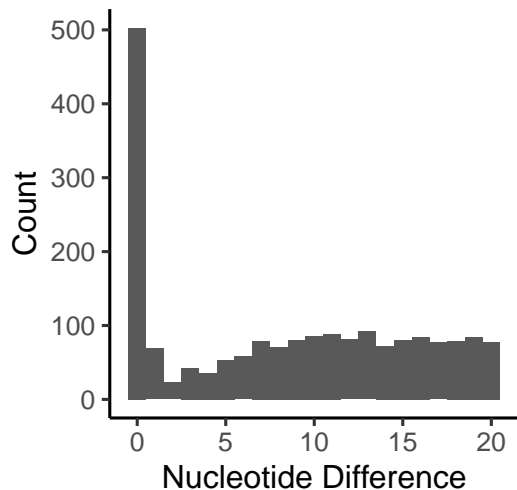
IGHV3-73*02

424 sequences assigned
143 (33.7%) exact matches, in which:
143 unique CDR3
5 unique J



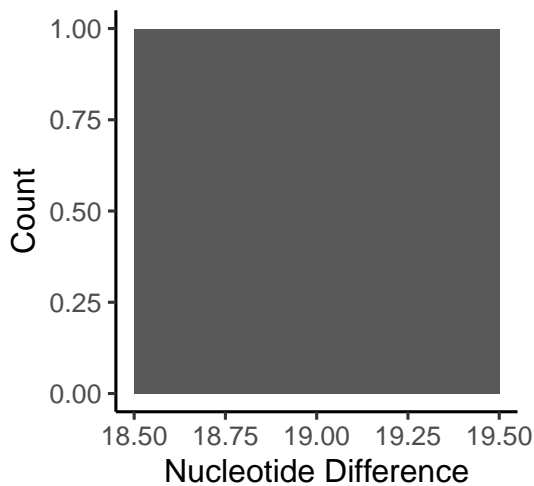
IGHV3–74*01

2687 sequences assigned
503 (18.7%) exact matches, in which:
500 unique CDR3
7 unique J



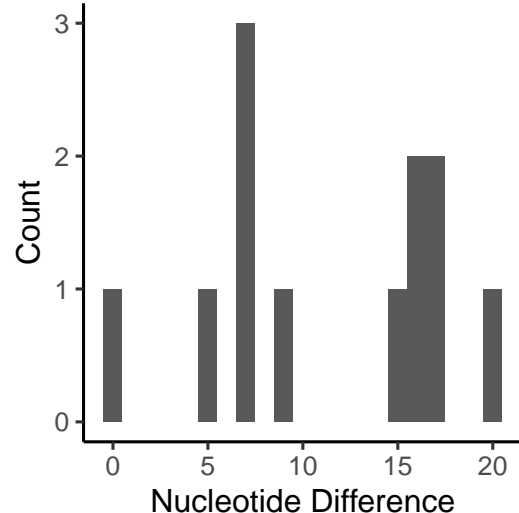
IGHV3–NL1*01

3 sequences assigned
No exact matches.



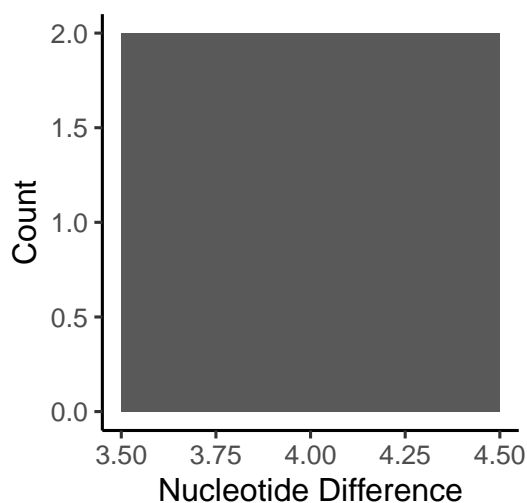
IGHV4–28*01

12 sequences assigned
1 (8.3%) exact matches, in which:
1 unique CDR3
1 unique J



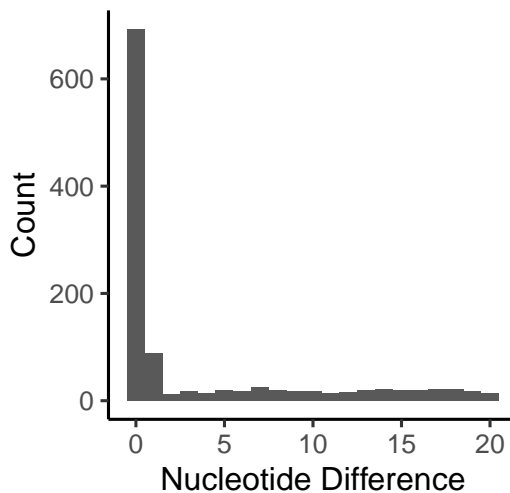
IGHV3–43D*04

2 sequences assigned
No exact matches.



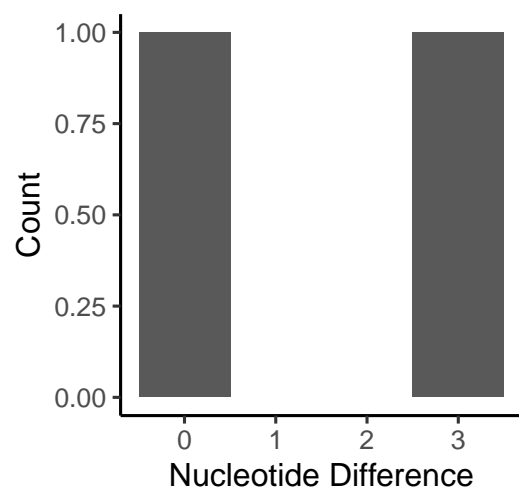
IGHV4–4*02

1337 sequences assigned
693 (51.8%) exact matches, in which:
693 unique CDR3
6 unique J



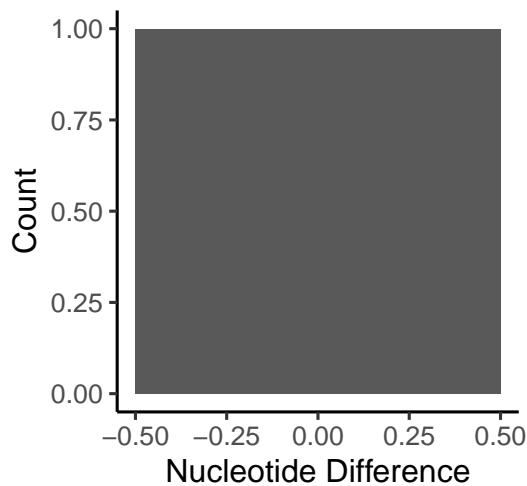
IGHV4–28*03

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



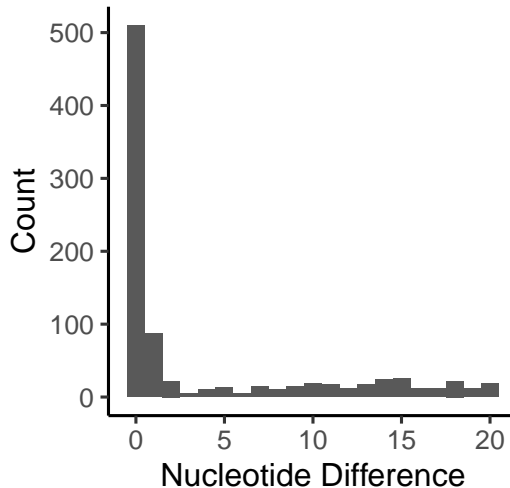
IGHV3–64D*06

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



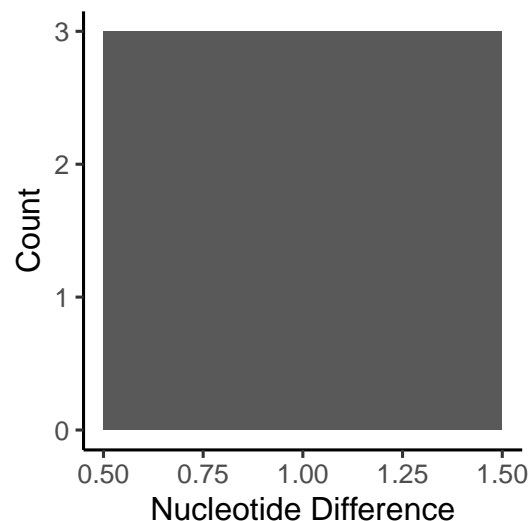
IGHV4–4*07

1077 sequences assigned
510 (47.4%) exact matches, in which:
506 unique CDR3
7 unique J



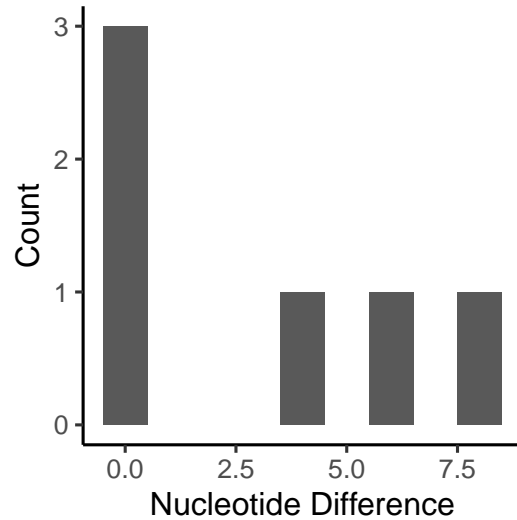
IGHV4–28*04

3 sequences assigned
No exact matches.



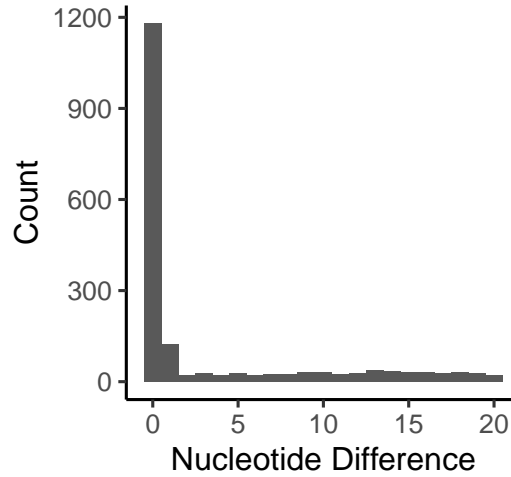
IGHV4-28*07

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



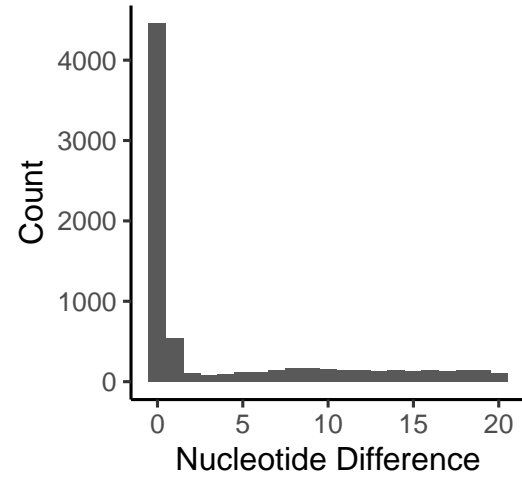
IGHV4-31*03

2170 sequences assigned
1180 (54.4%) exact matches, in which:
1177 unique CDR3
7 unique J



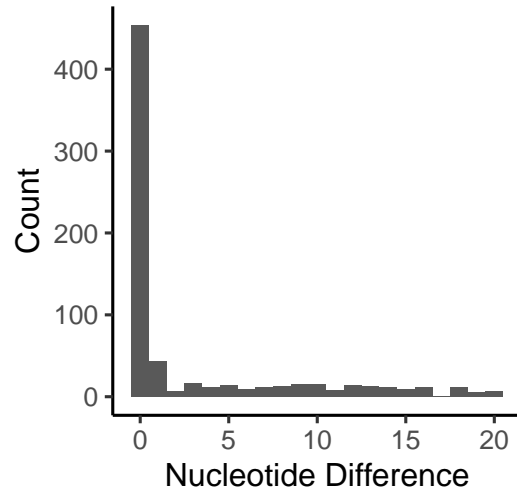
IGHV4-39*01

8918 sequences assigned
4457 (50%) exact matches, in which:
4446 unique CDR3
7 unique J



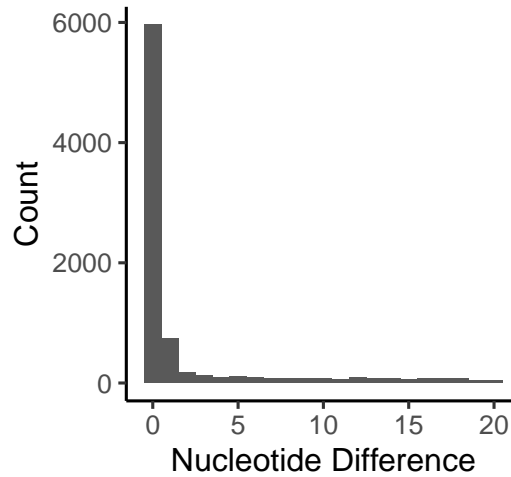
IGHV4-30-4*01

848 sequences assigned
454 (53.5%) exact matches, in which:
453 unique CDR3
6 unique J



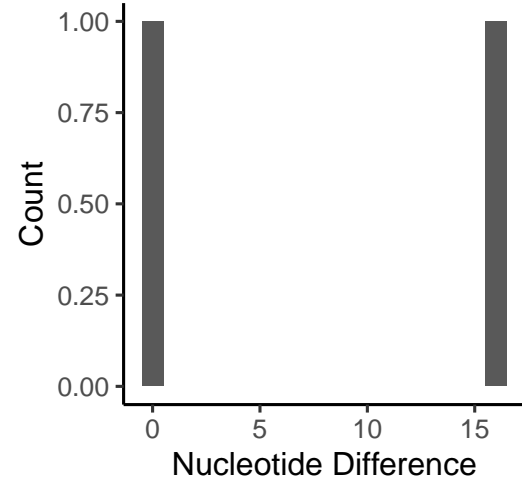
IGHV4-34*01

8848 sequences assigned
5962 (67.4%) exact matches, in which:
5908 unique CDR3
7 unique J



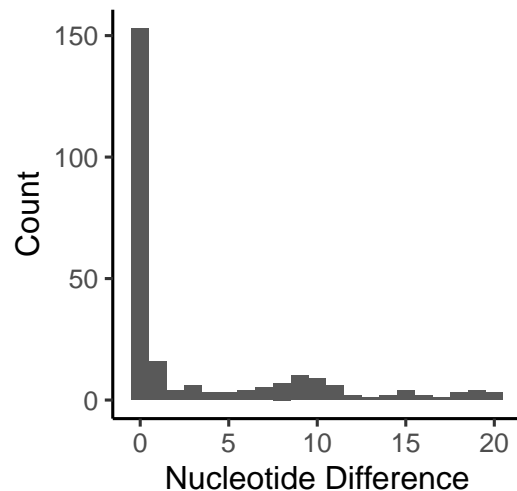
IGHV4-55*02

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



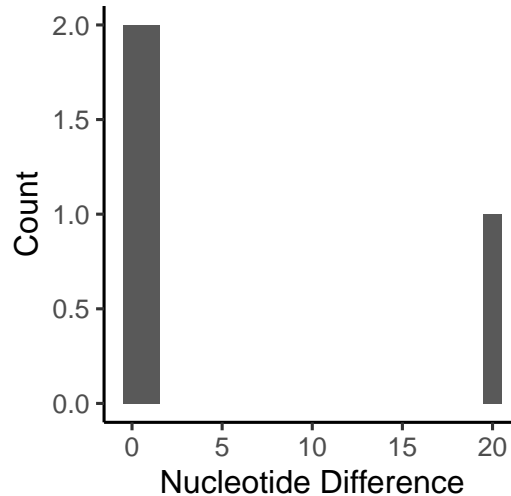
IGHV4-30-2*01

269 sequences assigned
153 (56.9%) exact matches, in which:
152 unique CDR3
5 unique J



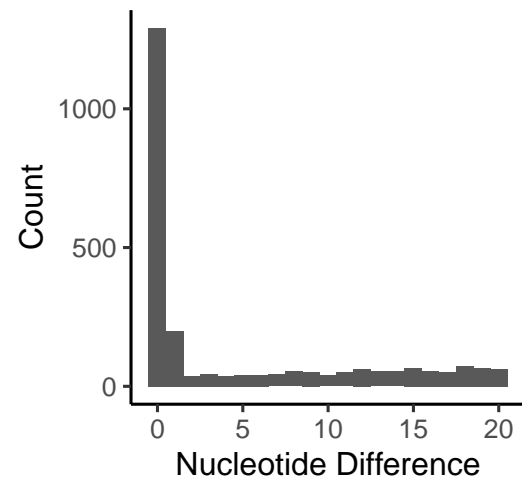
IGHV4-38-2*02

7 sequences assigned
2 (28.6%) exact matches, in which:
2 unique CDR3
2 unique J



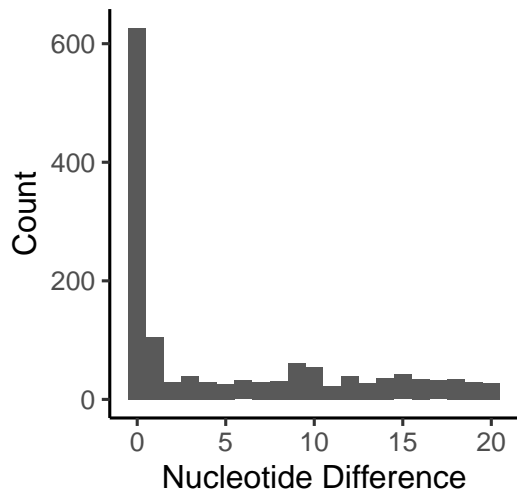
IGHV4-59*01

3050 sequences assigned
1291 (42.3%) exact matches, in which:
1287 unique CDR3
7 unique J



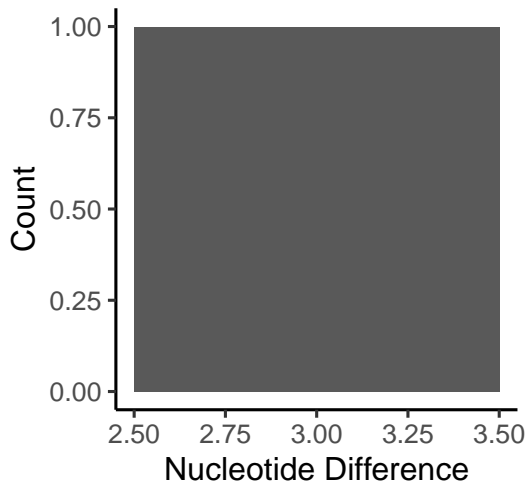
IGHV4–59*08

1747 sequences assigned
627 (35.9%) exact matches, in which:
624 unique CDR3
7 unique J



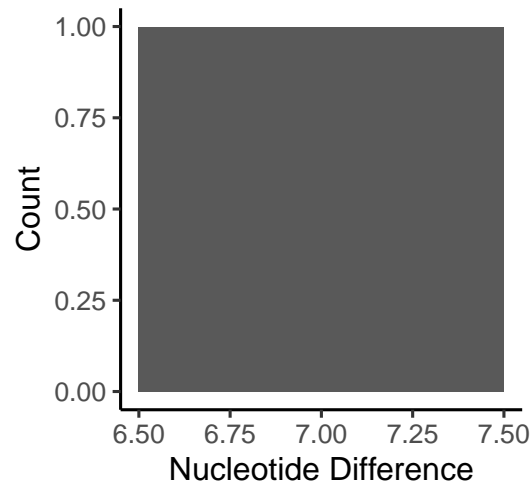
IGHV1/OR15–3*03

1 sequences assigned
No exact matches.



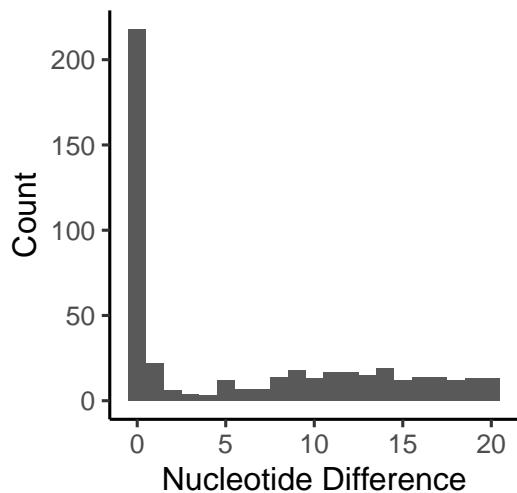
IGHV1/OR15–9*01

1 sequences assigned
No exact matches.



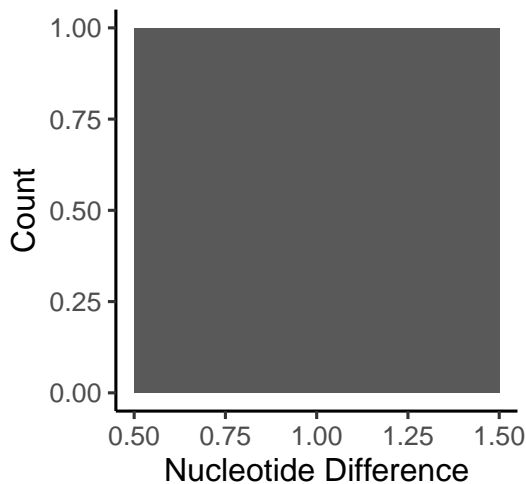
IGHV4–61*01

554 sequences assigned
218 (39.4%) exact matches, in which:
218 unique CDR3
6 unique J



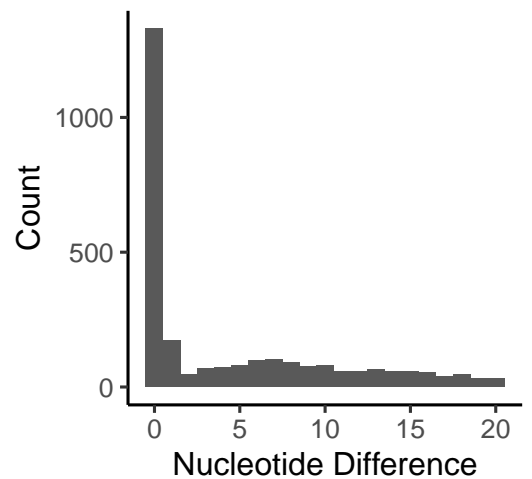
IGHV1/OR15–4*01

1 sequences assigned
No exact matches.



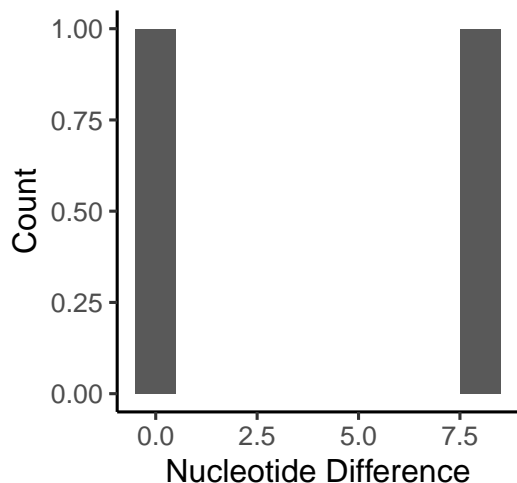
IGHV5–51*01

3066 sequences assigned
1329 (43.3%) exact matches, in which:
1320 unique CDR3
7 unique J



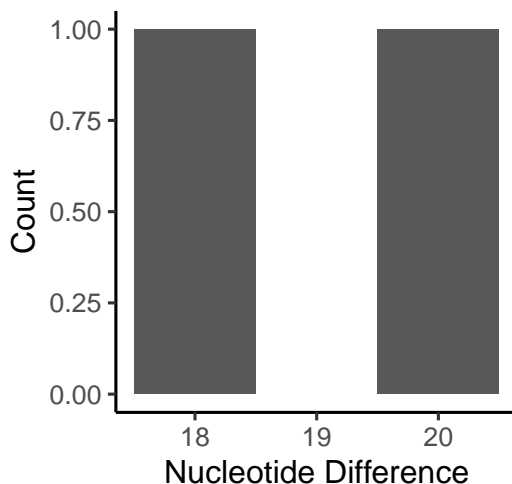
IGHV1/OR15–1*04

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



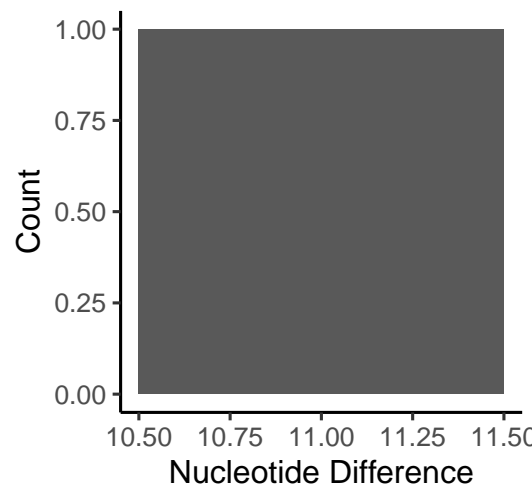
IGHV4/OR15–8*02

13 sequences assigned
No exact matches.



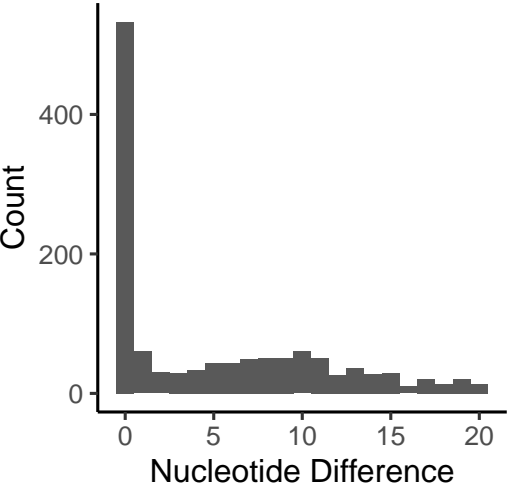
IGHV5–78*01

1 sequences assigned
No exact matches.



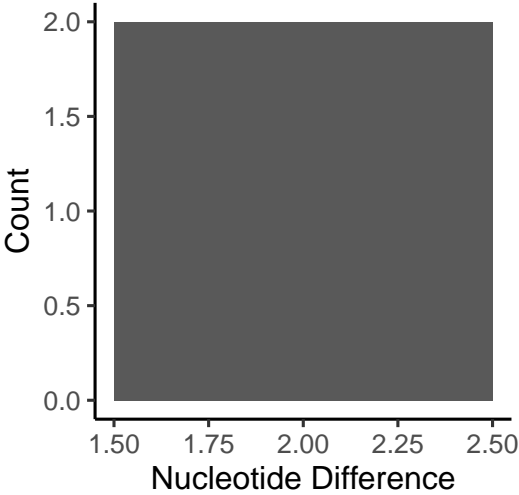
IGHV6-1*01

1341 sequences assigned
533 (39.7%) exact matches, in which:
532 unique CDR3
7 unique J



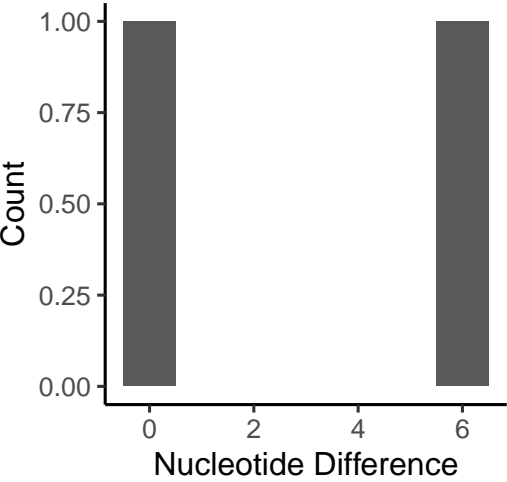
IGHV3/OR16-12*01

2 sequences assigned
No exact matches.



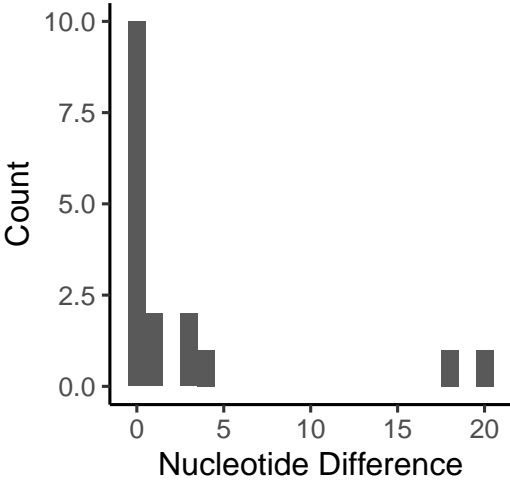
IGHV3/OR16-8*01

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



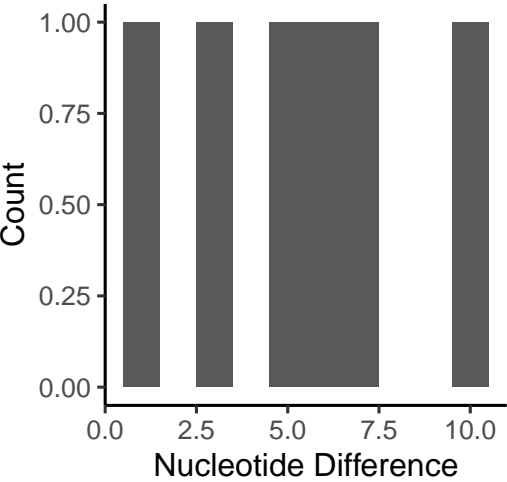
IGHV7-4-1*01

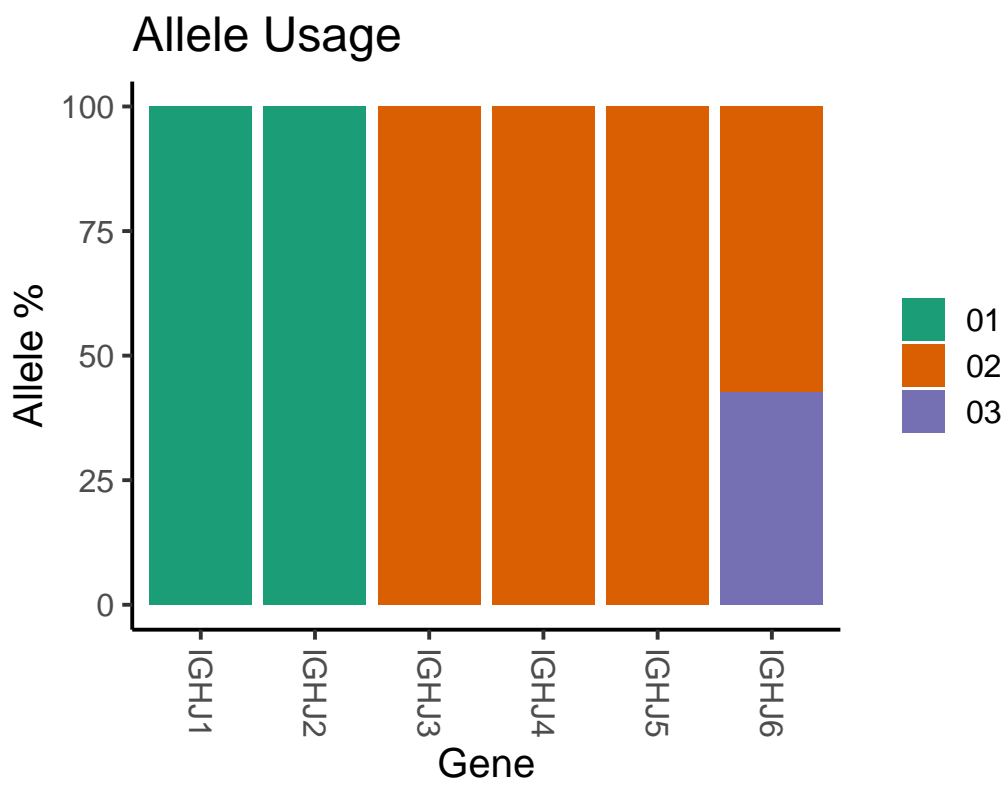
17 sequences assigned
10 (58.8%) exact matches, in which:
10 unique CDR3
5 unique J



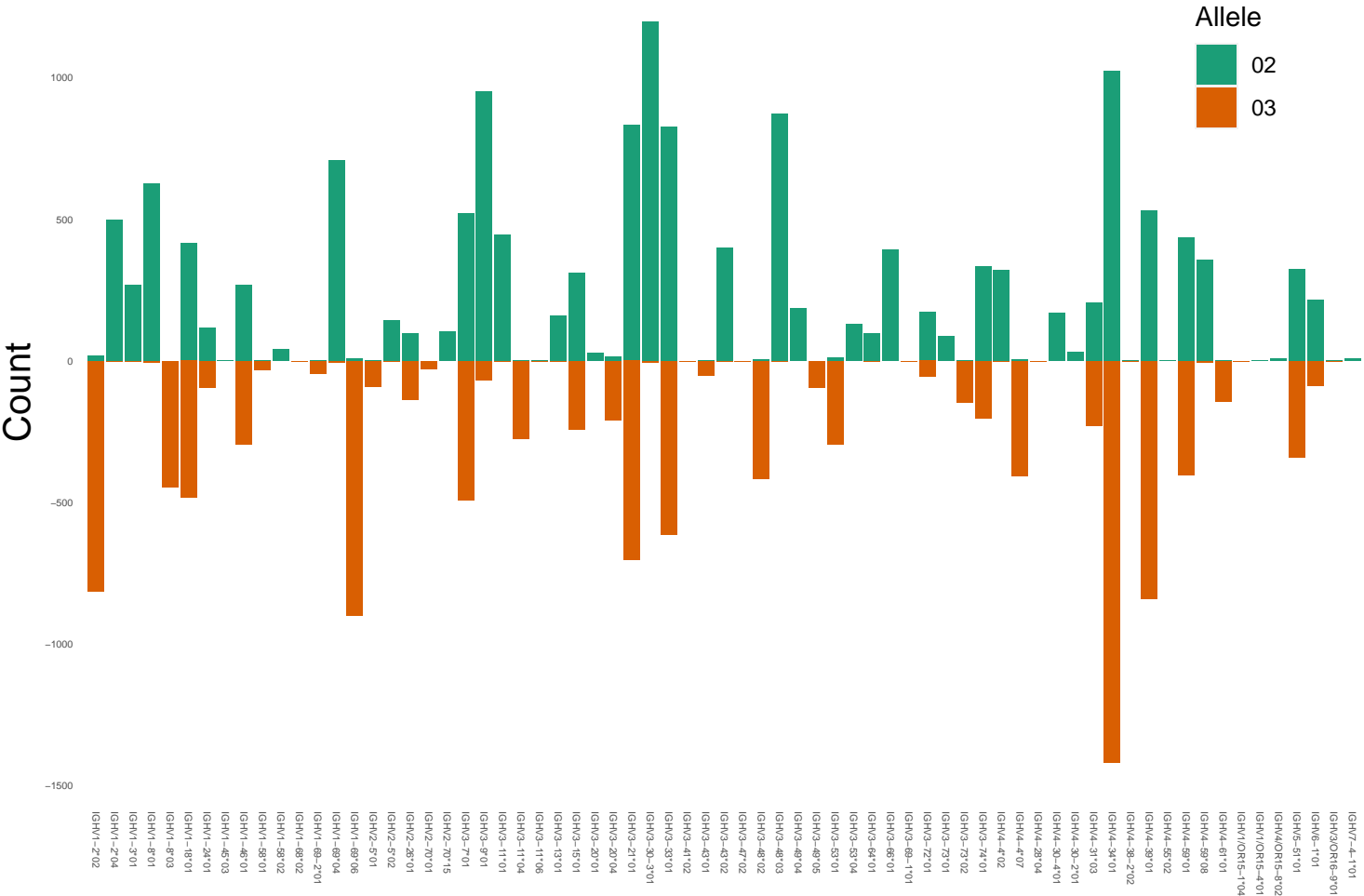
IGHV3/OR16-9*01

6 sequences assigned
No exact matches.





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.