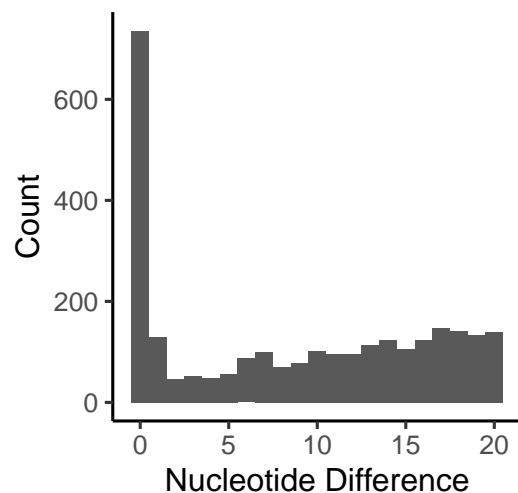


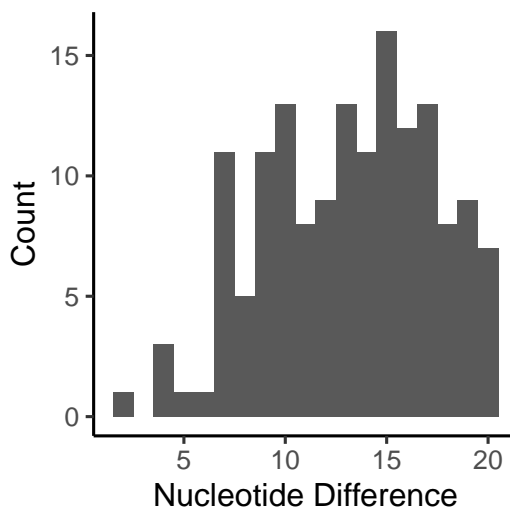
IGHV1-2*02

4292 sequences assigned
736 (17.1%) exact matches, in which:
728 unique CDR3
6 unique J



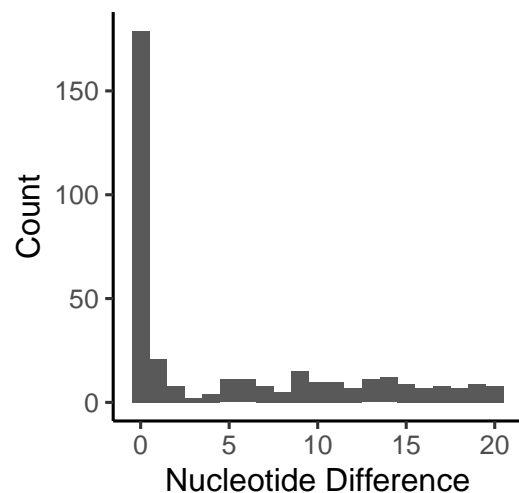
IGHV1-3*04

256 sequences assigned
No exact matches.



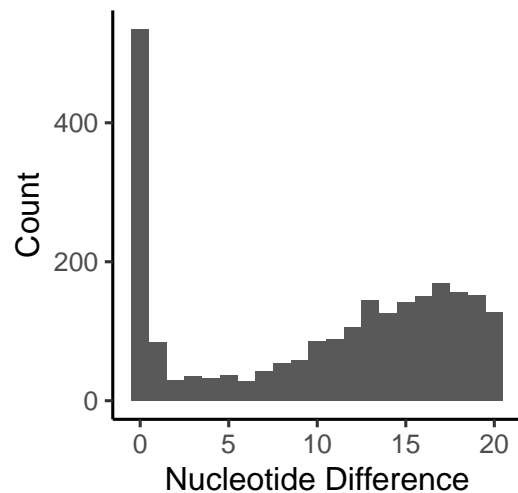
IGHV1-24*01

457 sequences assigned
179 (39.2%) exact matches, in which:
179 unique CDR3
7 unique J



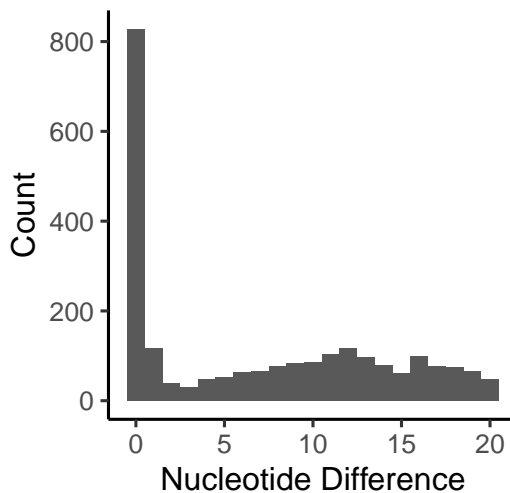
IGHV1-2*06

3883 sequences assigned
535 (13.8%) exact matches, in which:
531 unique CDR3
6 unique J



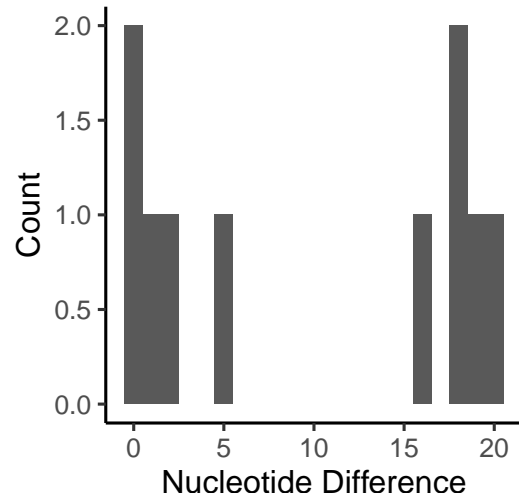
IGHV1-8*01

2887 sequences assigned
828 (28.7%) exact matches, in which:
815 unique CDR3
7 unique J



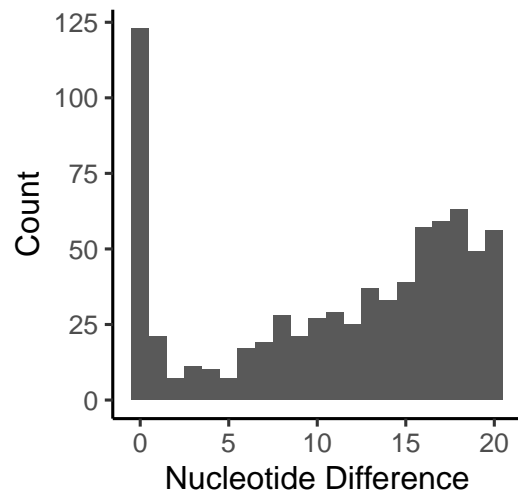
IGHV1-45*02

334 sequences assigned
2 (0.6%) exact matches, in which:
2 unique CDR3
2 unique J



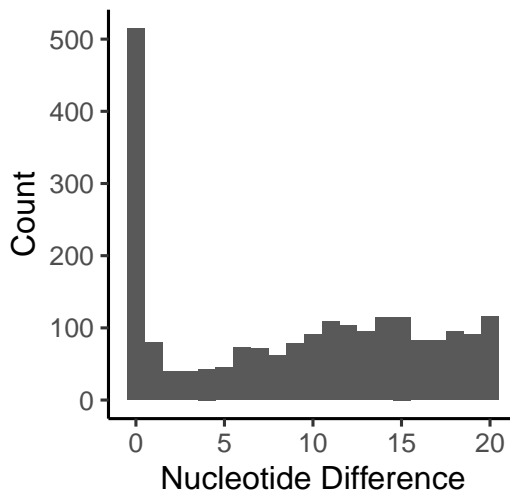
IGHV1-3*01

1277 sequences assigned
123 (9.6%) exact matches, in which:
121 unique CDR3
7 unique J



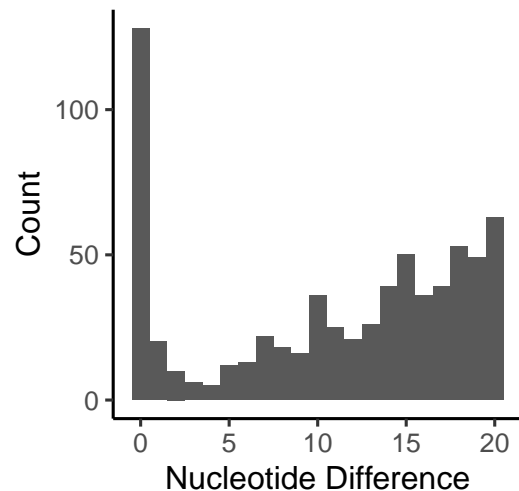
IGHV1-18*01

3434 sequences assigned
515 (15%) exact matches, in which:
509 unique CDR3
7 unique J



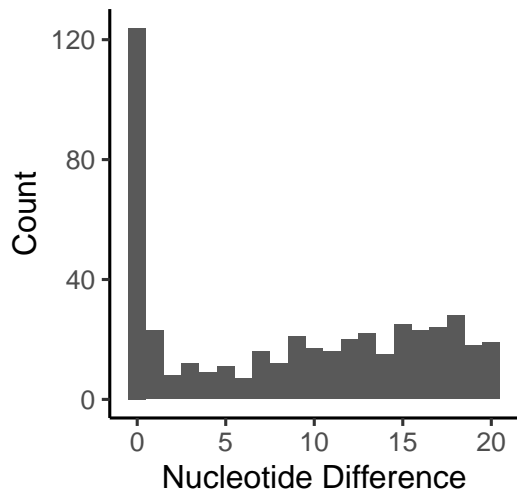
IGHV1-46*01

1280 sequences assigned
128 (10%) exact matches, in which:
126 unique CDR3
6 unique J



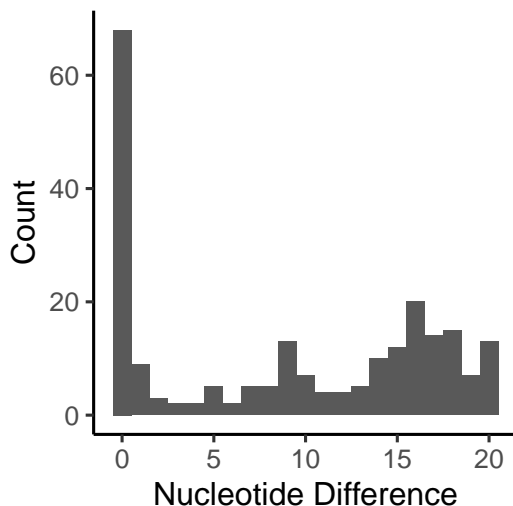
IGHV1-46*03

792 sequences assigned
124 (15.7%) exact matches, in which:
124 unique CDR3
7 unique J



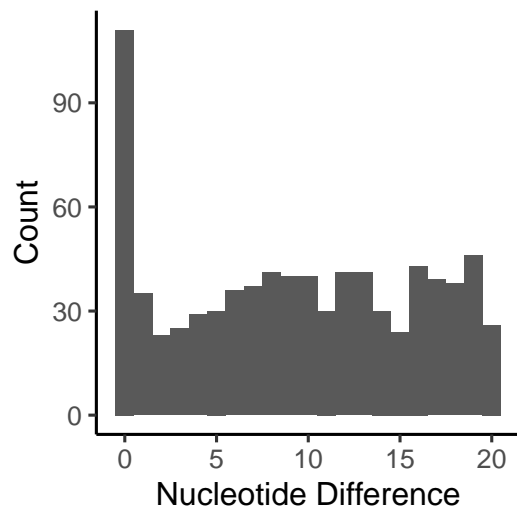
IGHV1-69-2*01

419 sequences assigned
68 (16.2%) exact matches, in which:
68 unique CDR3
6 unique J



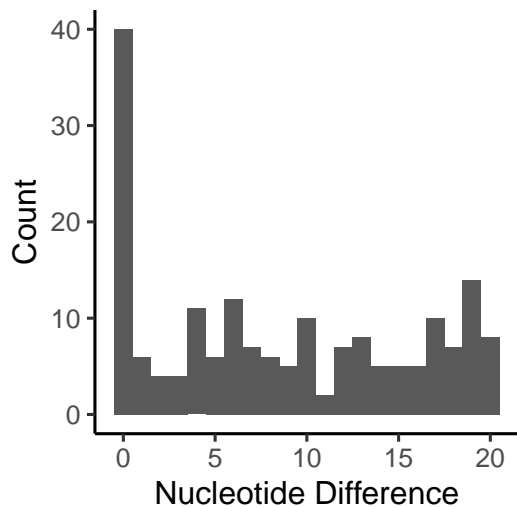
IGHV2-5*02

1095 sequences assigned
111 (10.1%) exact matches, in which:
111 unique CDR3
6 unique J



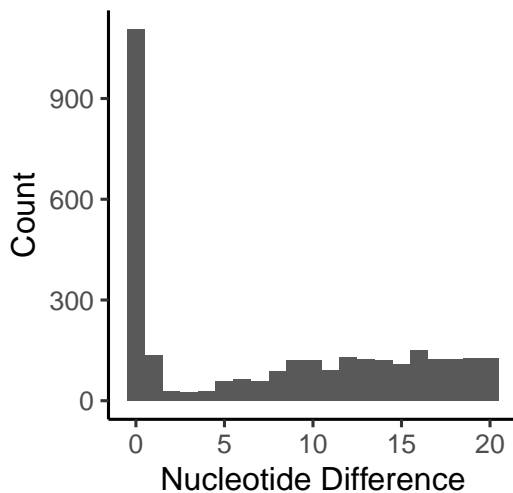
IGHV1-58*01

254 sequences assigned
40 (15.7%) exact matches, in which:
40 unique CDR3
4 unique J



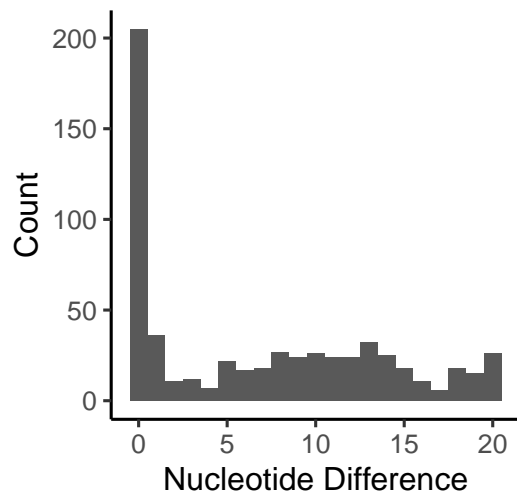
IGHV1-69*06

4748 sequences assigned
1107 (23.3%) exact matches, in which:
1106 unique CDR3
7 unique J



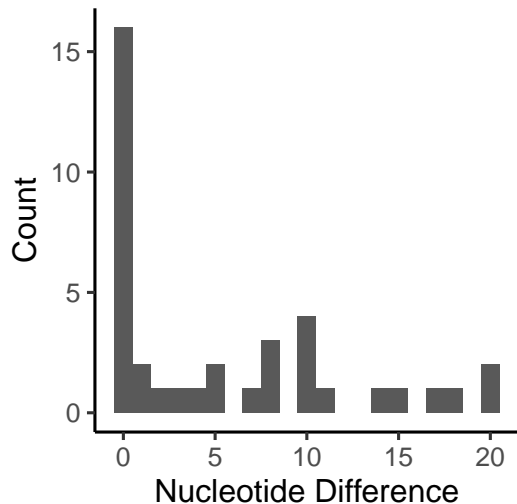
IGHV2-26*01

712 sequences assigned
205 (28.8%) exact matches, in which:
204 unique CDR3
6 unique J



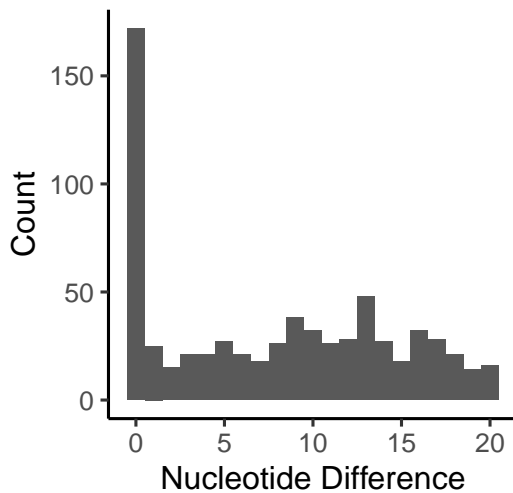
IGHV1-58*02

55 sequences assigned
16 (29.1%) exact matches, in which:
16 unique CDR3
5 unique J



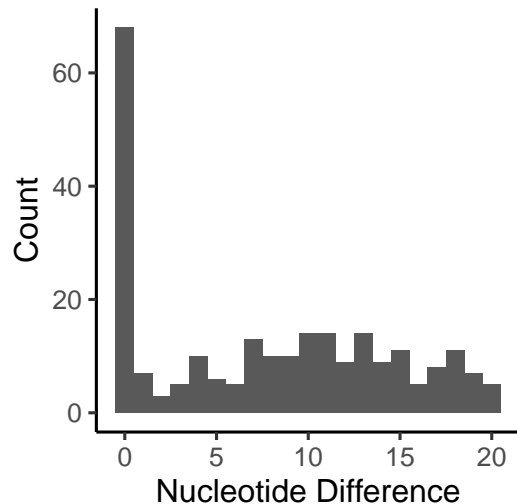
IGHV2-5*01

873 sequences assigned
172 (19.7%) exact matches, in which:
171 unique CDR3
6 unique J



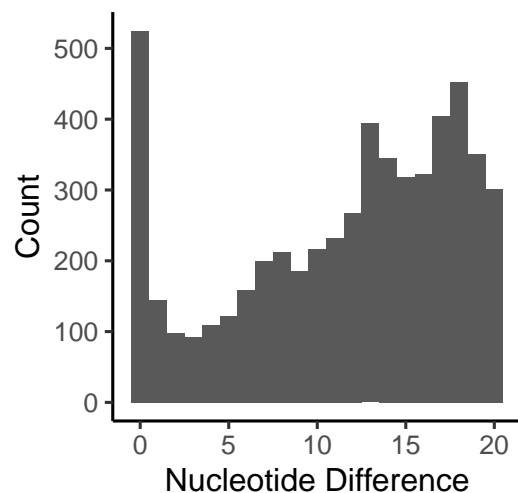
IGHV2-70*01

308 sequences assigned
68 (22.1%) exact matches, in which:
67 unique CDR3
6 unique J



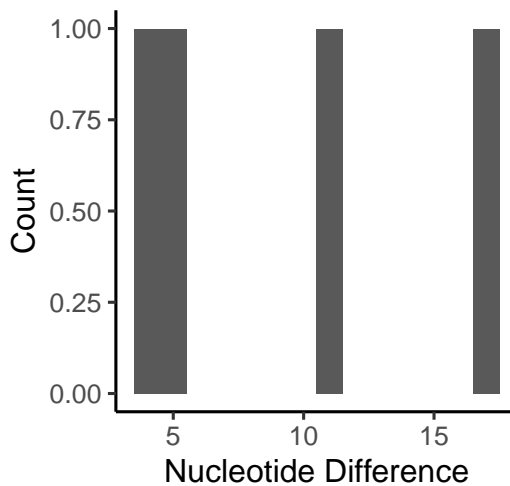
IGHV3-7*01

10335 sequences assigned
525 (5.1%) exact matches, in which:
519 unique CDR3
7 unique J



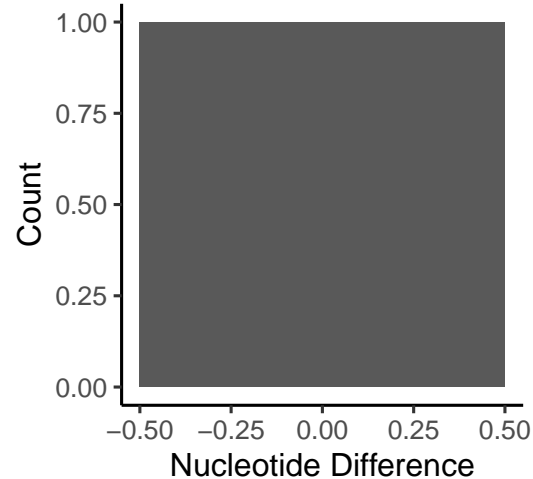
IGHV3-11*06

5 sequences assigned
No exact matches.



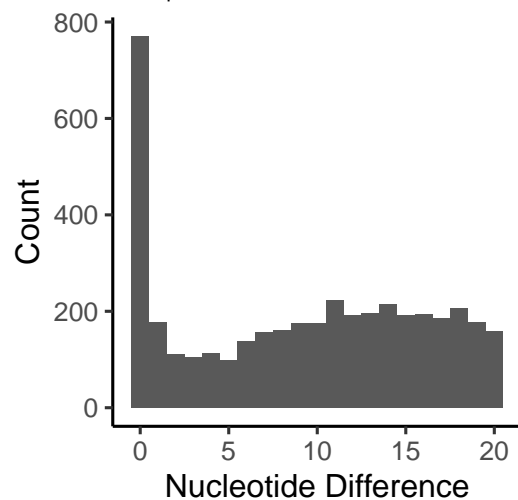
IGHV3-19*01

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



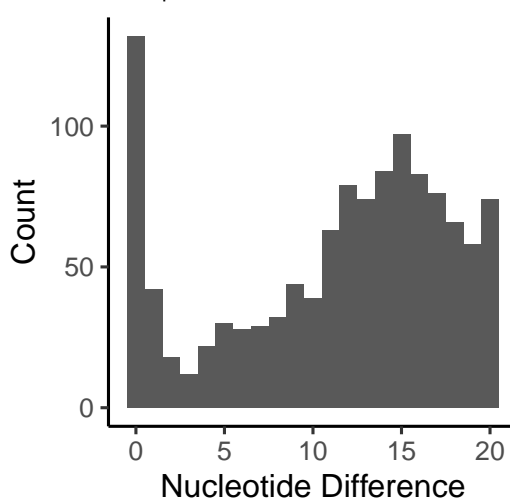
IGHV3-9*01

5929 sequences assigned
771 (13%) exact matches, in which:
761 unique CDR3
7 unique J



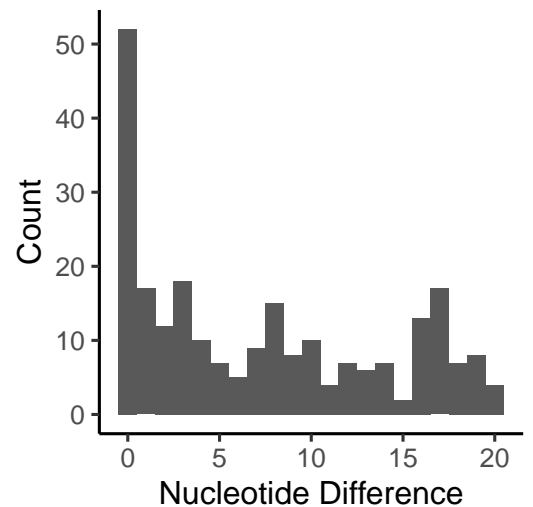
IGHV3-13*01

1757 sequences assigned
132 (7.5%) exact matches, in which:
122 unique CDR3
6 unique J



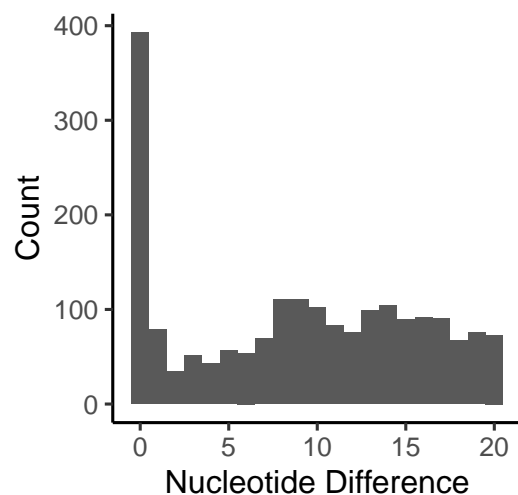
IGHV3-20*01

302 sequences assigned
52 (17.2%) exact matches, in which:
51 unique CDR3
6 unique J



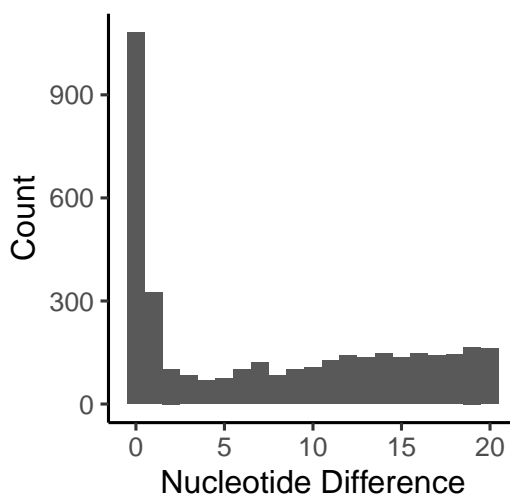
IGHV3-11*01

3588 sequences assigned
393 (11%) exact matches, in which:
391 unique CDR3
7 unique J



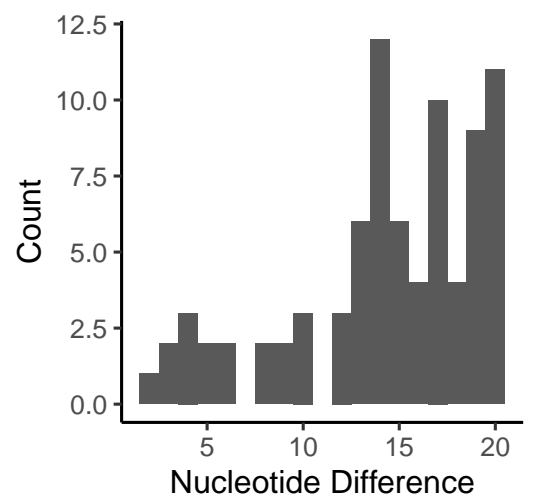
IGHV3-15*01

5719 sequences assigned
1082 (18.9%) exact matches, in which:
478 unique CDR3
7 unique J



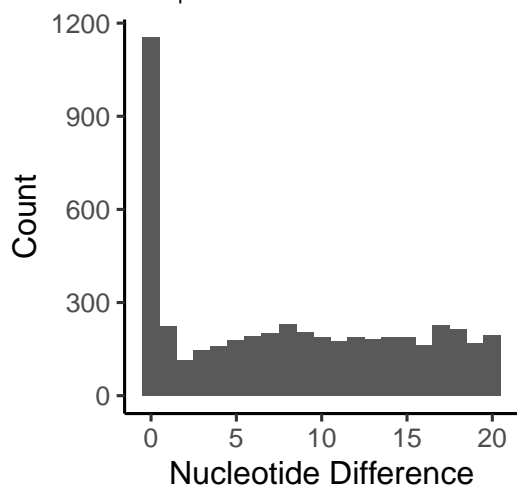
IGHV3-20*04

170 sequences assigned
No exact matches.



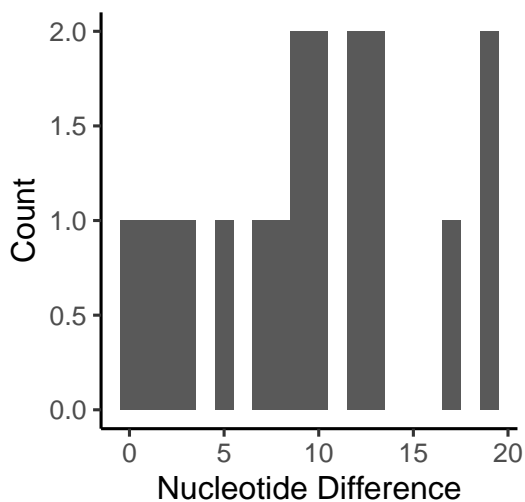
IGHV3-21*01

6635 sequences assigned
1154 (17.4%) exact matches, in which:
1142 unique CDR3
7 unique J



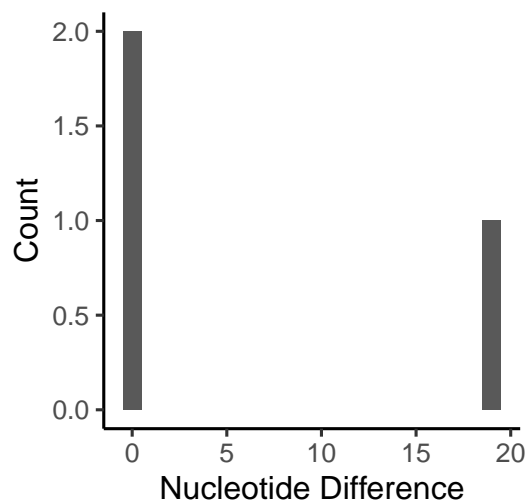
IGHV3-30-3*02

53 sequences assigned
1 (1.9%) exact matches, in which:
1 unique CDR3
1 unique J



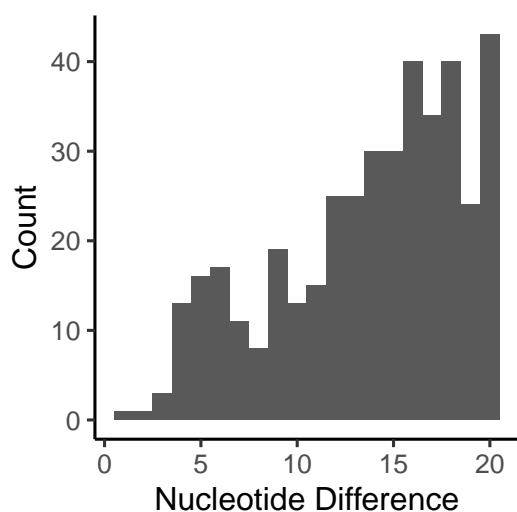
IGHV3-41*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



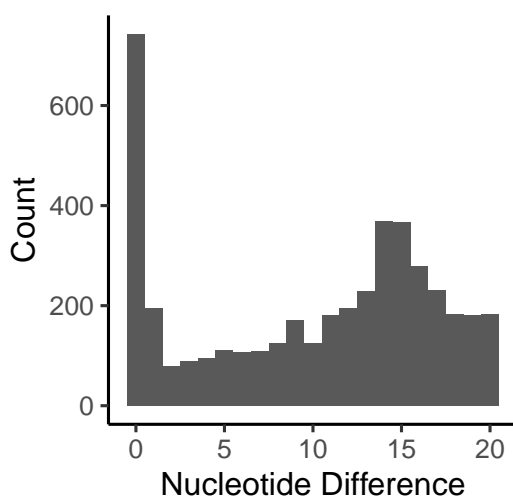
IGHV3-21*02

1403 sequences assigned
No exact matches.



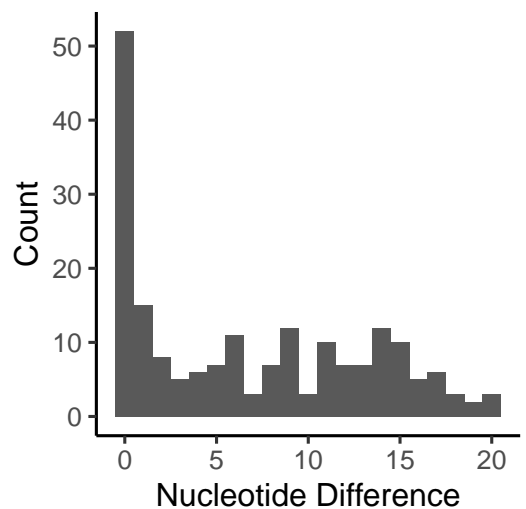
IGHV3-33*01

5982 sequences assigned
743 (12.4%) exact matches, in which:
728 unique CDR3
7 unique J



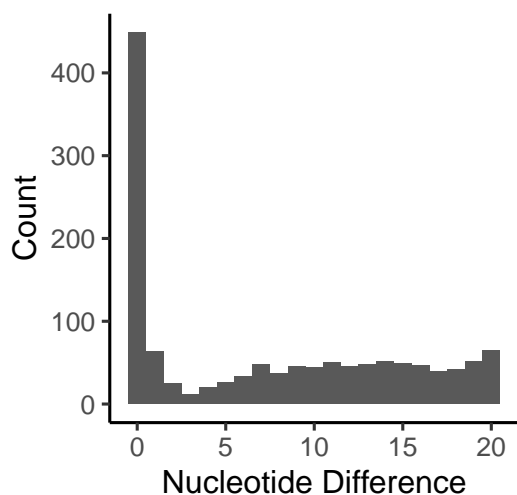
IGHV3-43*01

279 sequences assigned
52 (18.6%) exact matches, in which:
45 unique CDR3
6 unique J



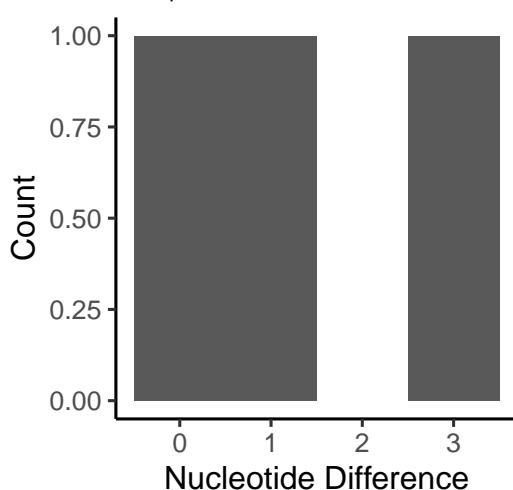
IGHV3-30-3*01

1977 sequences assigned
449 (22.7%) exact matches, in which:
448 unique CDR3
7 unique J



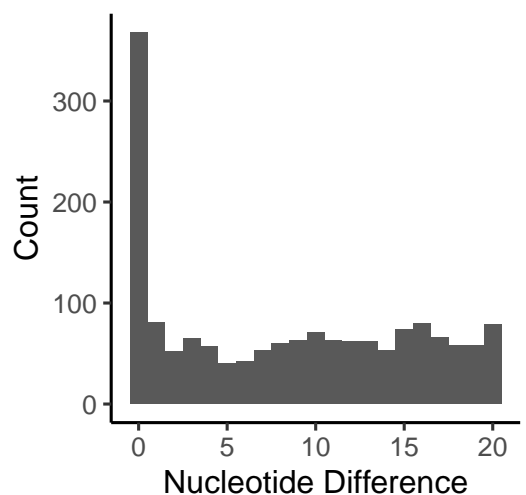
IGHV3-35*01

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



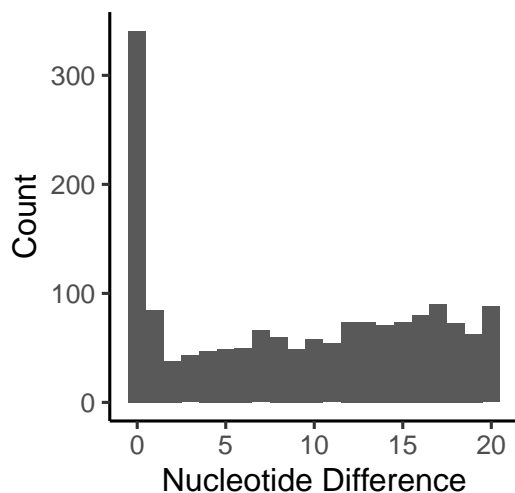
IGHV3-48*01

2370 sequences assigned
368 (15.5%) exact matches, in which:
358 unique CDR3
6 unique J



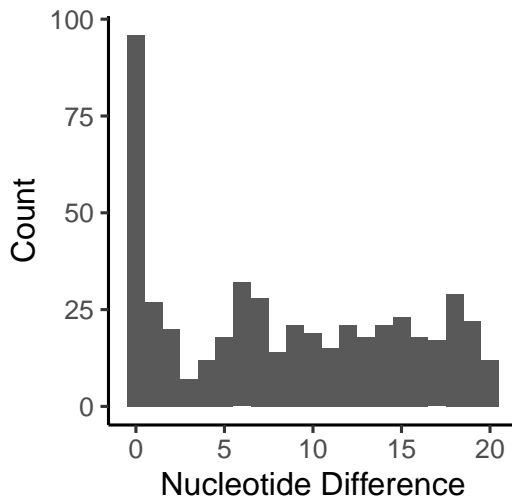
IGHV3-48*03

2484 sequences assigned
341 (13.7%) exact matches, in which:
338 unique CDR3
6 unique J



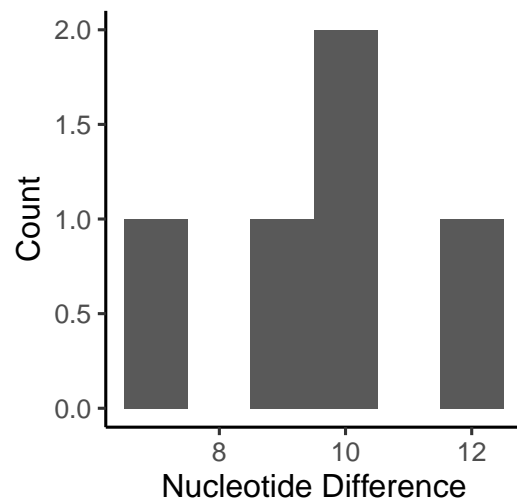
IGHV3-49*04

839 sequences assigned
96 (11.4%) exact matches, in which:
92 unique CDR3
6 unique J



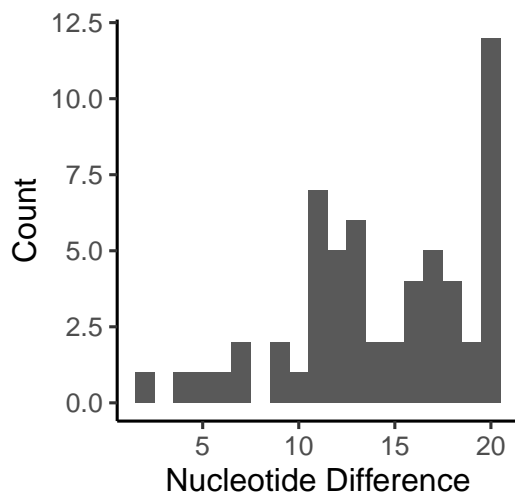
IGHV3-62*03

5 sequences assigned
No exact matches.



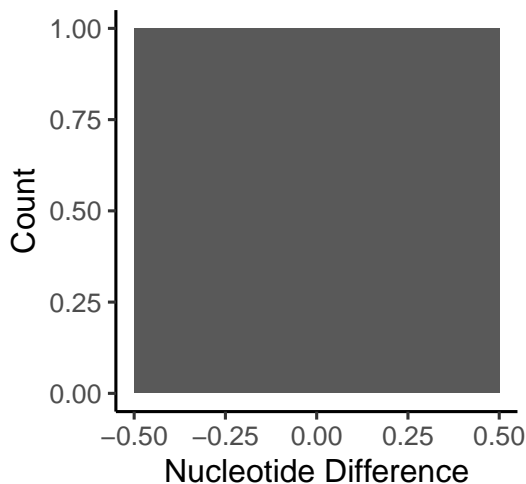
IGHV3-48*04

141 sequences assigned
No exact matches.



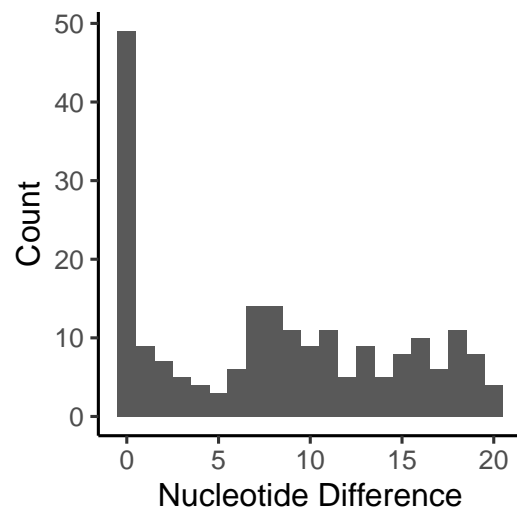
IGHV3-52*01

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



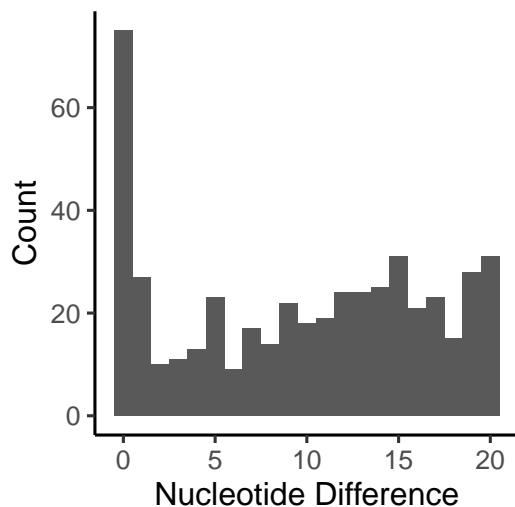
IGHV3-64*01

341 sequences assigned
49 (14.4%) exact matches, in which:
49 unique CDR3
6 unique J



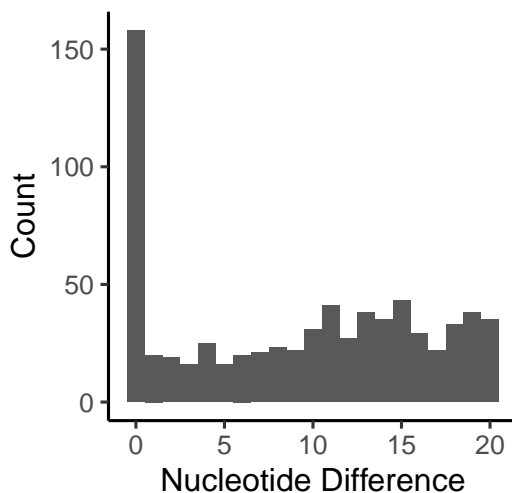
IGHV3-49*03

782 sequences assigned
75 (9.6%) exact matches, in which:
75 unique CDR3
5 unique J



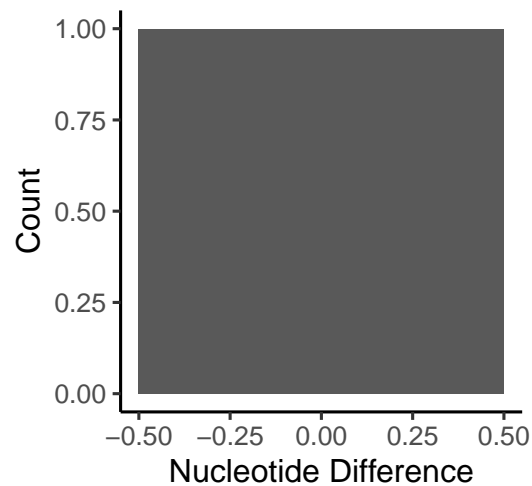
IGHV3-53*01

1259 sequences assigned
158 (12.5%) exact matches, in which:
156 unique CDR3
5 unique J



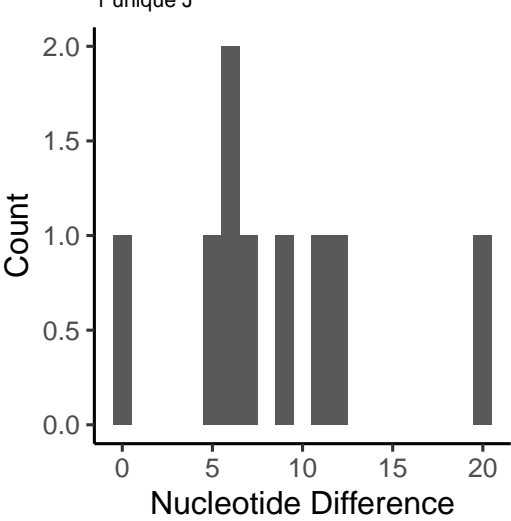
IGHV3-66*01

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



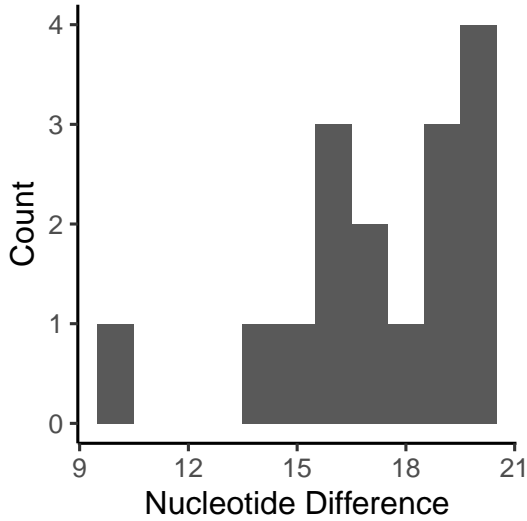
IGHV3-66*03

10 sequences assigned
1 (10%) exact matches, in which:
1 unique CDR3
1 unique J



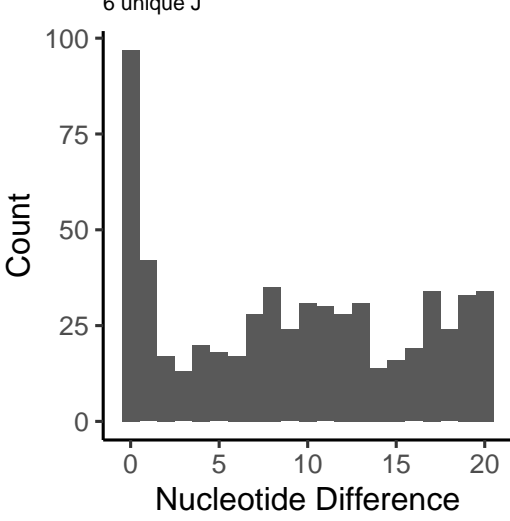
IGHV3-69-1*02

71 sequences assigned
No exact matches.



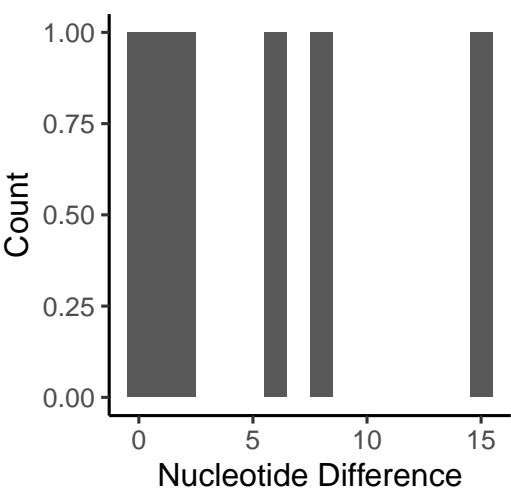
IGHV3-73*02

1057 sequences assigned
97 (9.2%) exact matches, in which:
96 unique CDR3
6 unique J



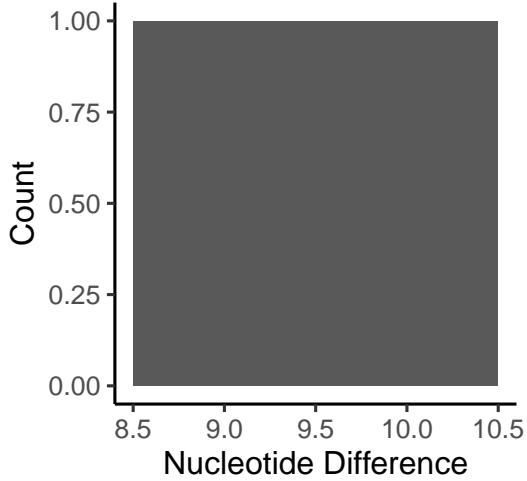
IGHV3-66*04

6 sequences assigned
1 (16.7%) exact matches, in which:
1 unique CDR3
1 unique J



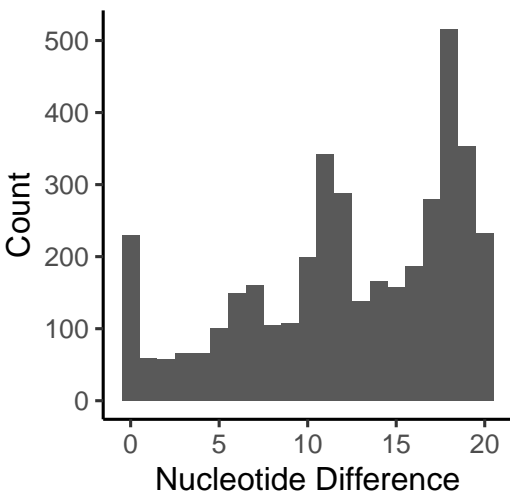
IGHV3-71*01

2 sequences assigned
No exact matches.



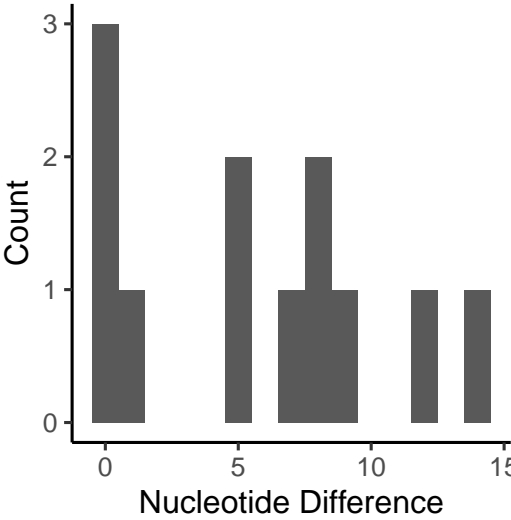
IGHV3-74*01

5220 sequences assigned
230 (4.4%) exact matches, in which:
223 unique CDR3
7 unique J



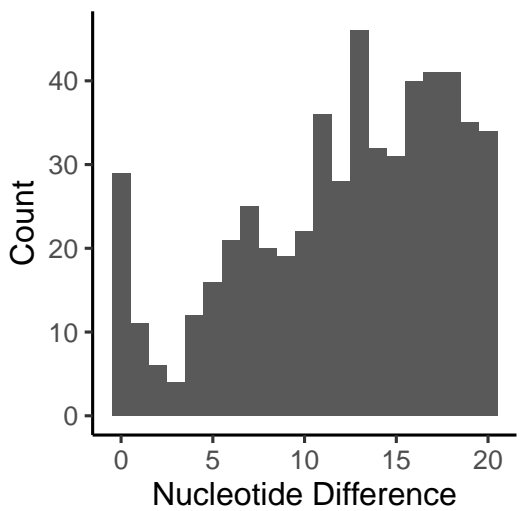
IGHV3-69-1*01

17 sequences assigned
3 (17.6%) exact matches, in which:
3 unique CDR3
2 unique J



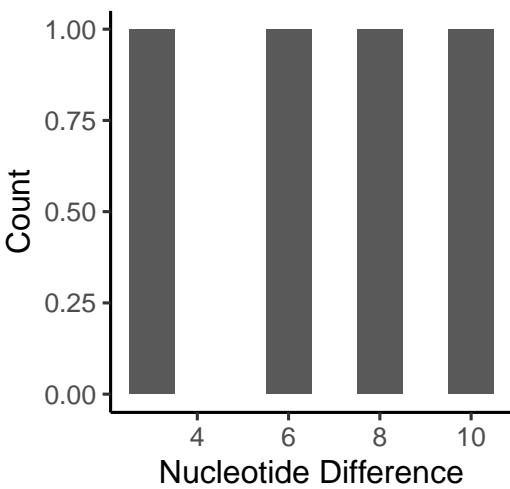
IGHV3-72*01

811 sequences assigned
29 (3.6%) exact matches, in which:
29 unique CDR3
5 unique J



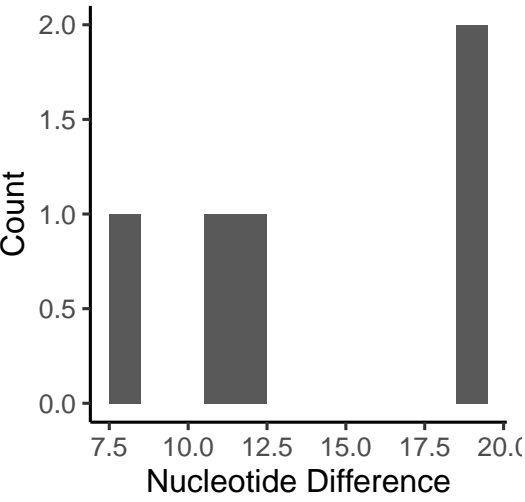
IGHV3-64D*08

4 sequences assigned
No exact matches.



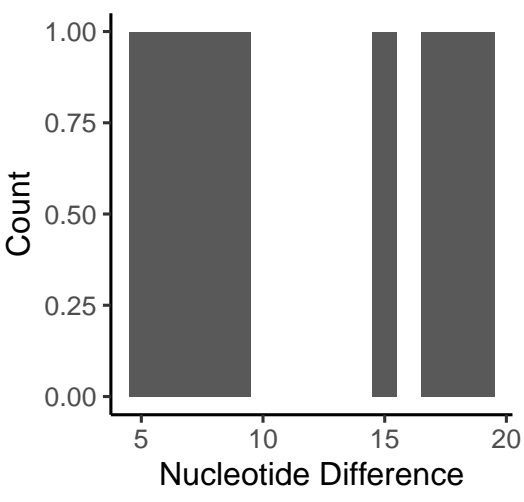
IGHV3–NL1*01

5 sequences assigned
No exact matches.



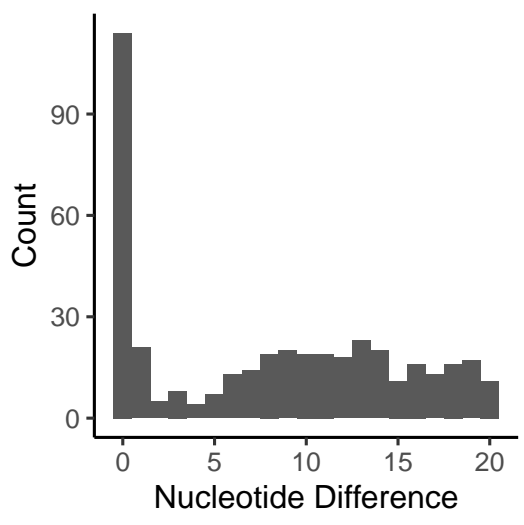
IGHV4–28*01

13 sequences assigned
No exact matches.



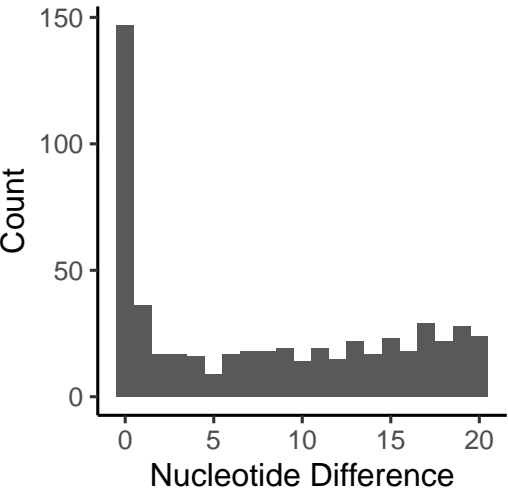
IGHV4–30–4*01

605 sequences assigned
114 (18.8%) exact matches, in which:
108 unique CDR3
5 unique J



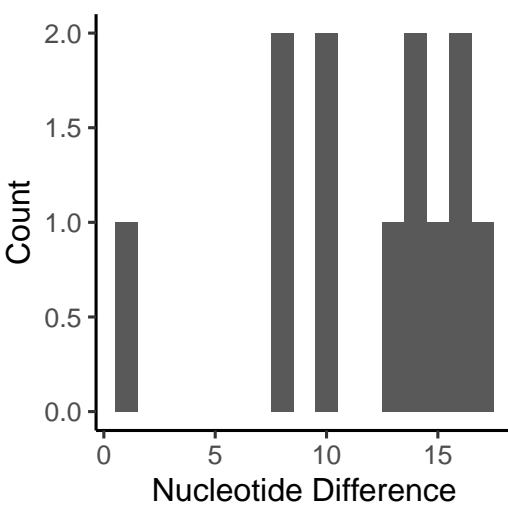
IGHV4–4*02

925 sequences assigned
147 (15.9%) exact matches, in which:
144 unique CDR3
6 unique J



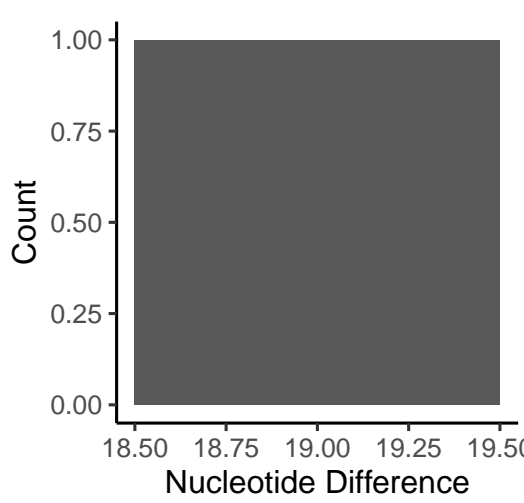
IGHV4–28*03

13 sequences assigned
No exact matches.



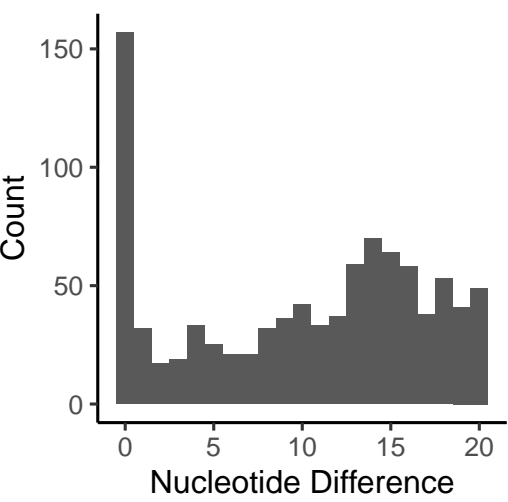
IGHV4–30–2*04

3 sequences assigned
No exact matches.



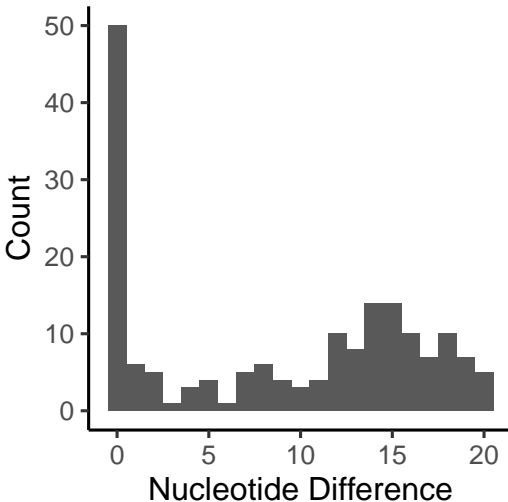
IGHV4–4*07

1518 sequences assigned
157 (10.3%) exact matches, in which:
152 unique CDR3
7 unique J



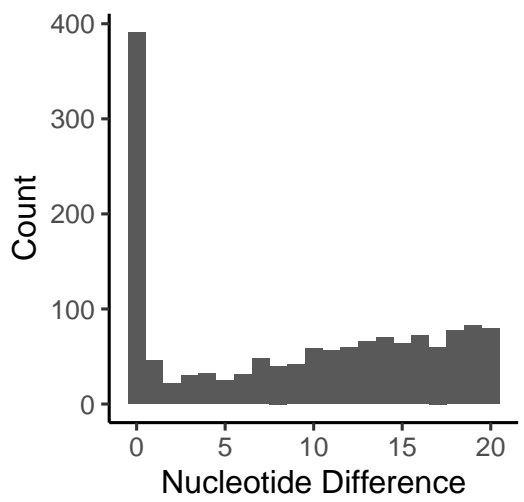
IGHV4–30–2*01

291 sequences assigned
50 (17.2%) exact matches, in which:
50 unique CDR3
5 unique J



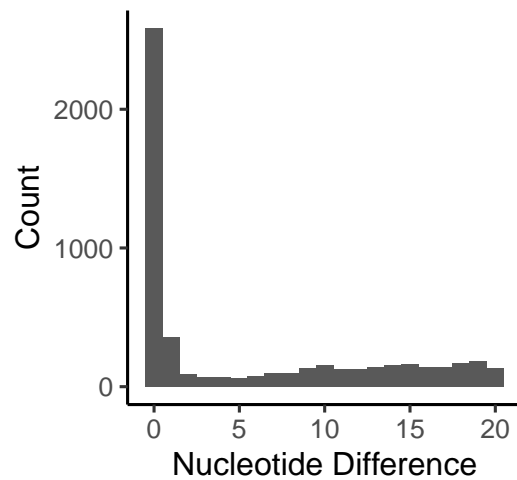
IGHV4–31*03

2746 sequences assigned
391 (14.2%) exact matches, in which:
388 unique CDR3
7 unique J



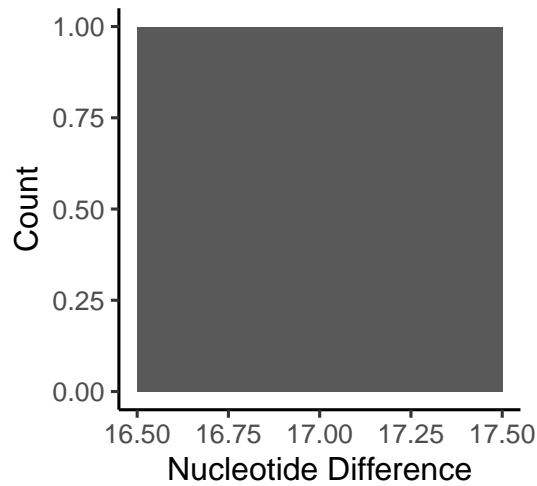
IGHV4-34*01

7248 sequences assigned
2583 (35.6%) exact matches, in which:
2576 unique CDR3
7 unique J



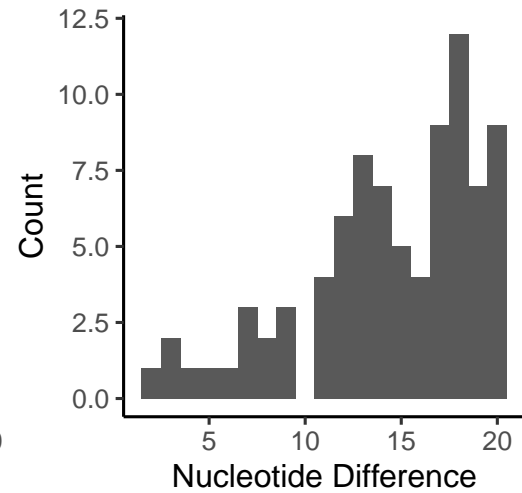
IGHV4-55*08

2 sequences assigned
No exact matches.



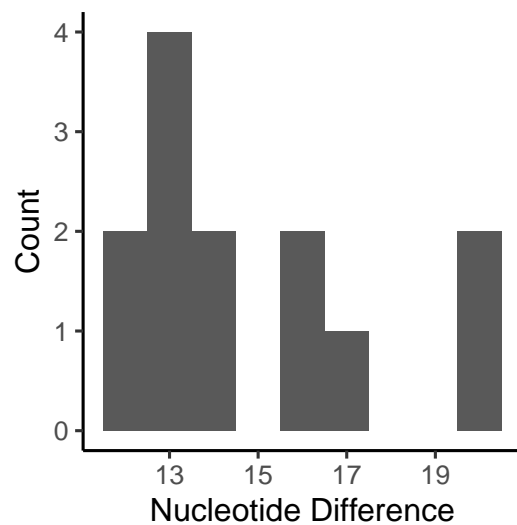
IGHV4-59*11

241 sequences assigned
No exact matches.



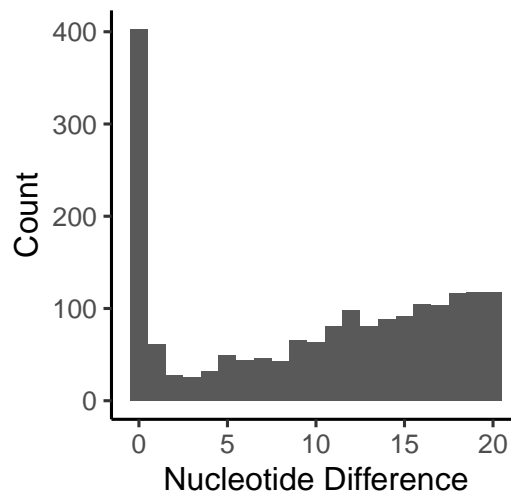
IGHV4-38-2*02

22 sequences assigned
No exact matches.



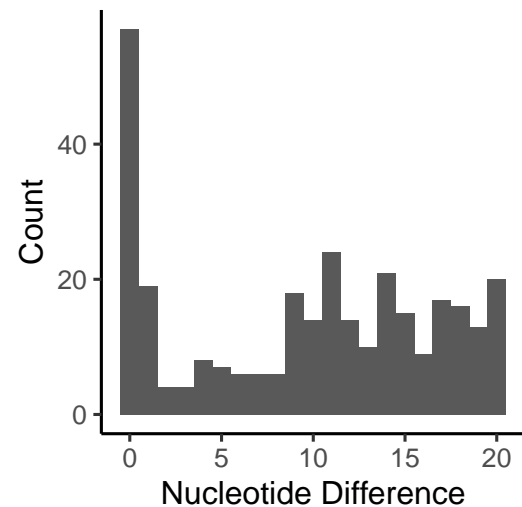
IGHV4-59*01

3328 sequences assigned
403 (12.1%) exact matches, in which:
402 unique CDR3
7 unique J



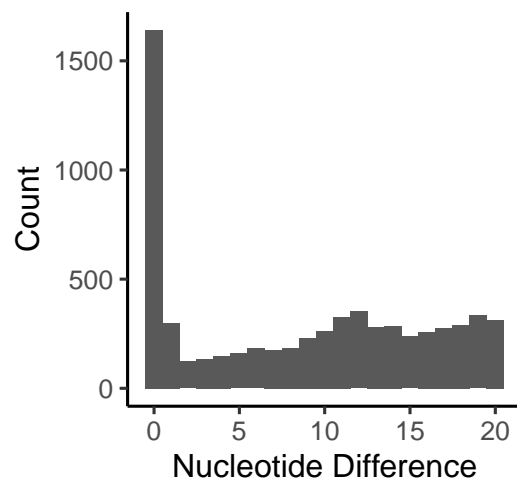
IGHV4-61*01

510 sequences assigned
57 (11.2%) exact matches, in which:
57 unique CDR3
6 unique J



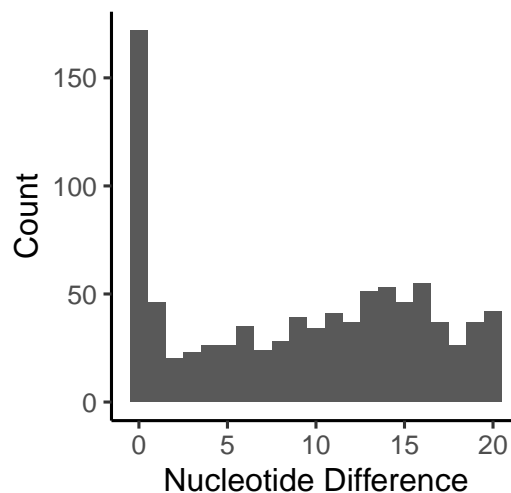
IGHV4-39*01

11050 sequences assigned
1641 (14.9%) exact matches, in which:
1611 unique CDR3
7 unique J



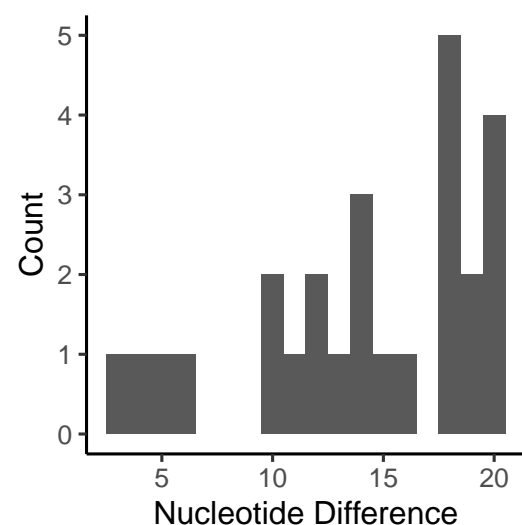
IGHV4-59*08

1553 sequences assigned
172 (11.1%) exact matches, in which:
171 unique CDR3
7 unique J



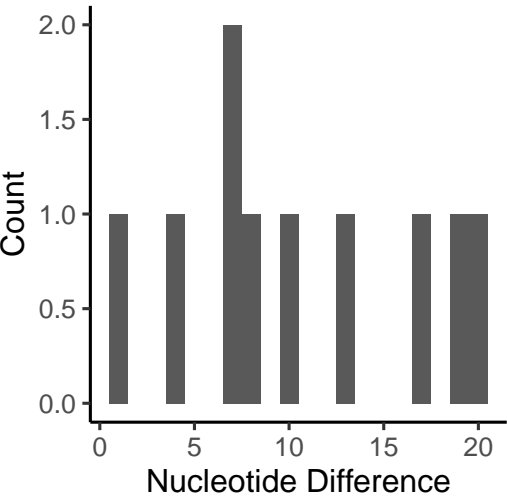
IGHV4-61*08

68 sequences assigned
No exact matches.



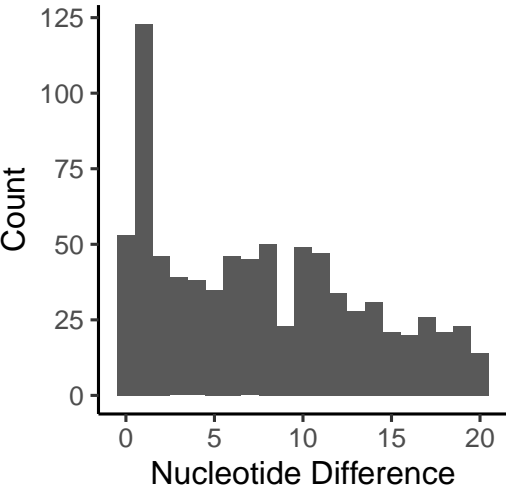
IGHV1/OR15-1*04

11 sequences assigned
No exact matches.



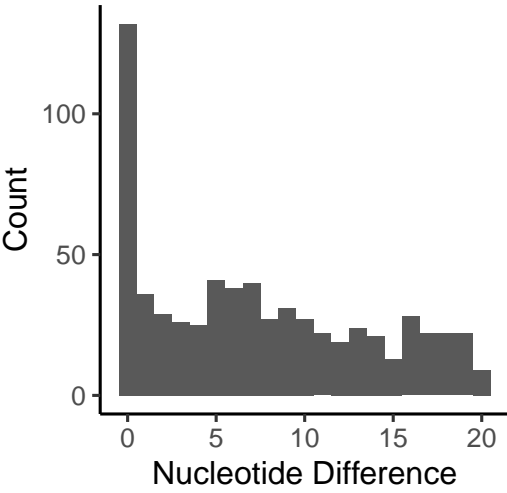
IGHV5-51*01

987 sequences assigned
53 (5.4%) exact matches, in which:
50 unique CDR3
6 unique J



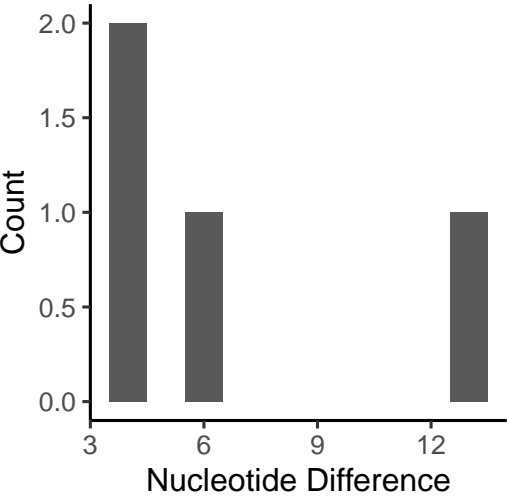
IGHV6-1*01

942 sequences assigned
132 (14%) exact matches, in which:
125 unique CDR3
7 unique J



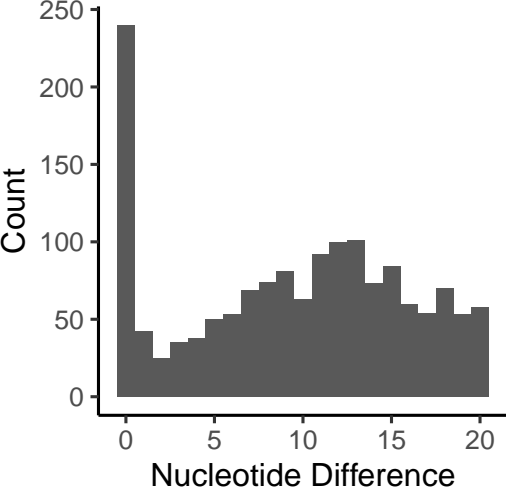
IGHV4/OR15-8*02

8 sequences assigned
No exact matches.



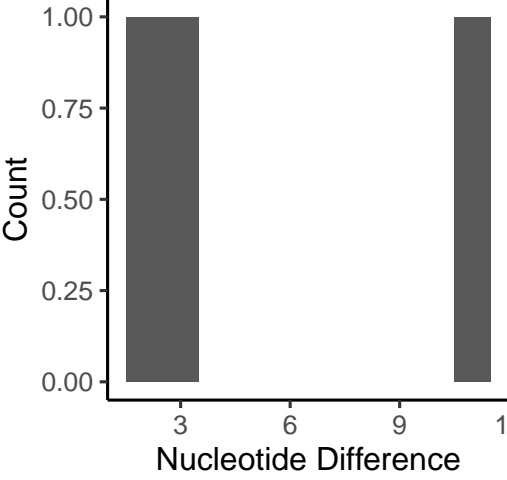
IGHV5-51*03

2147 sequences assigned
240 (11.2%) exact matches, in which:
240 unique CDR3
7 unique J



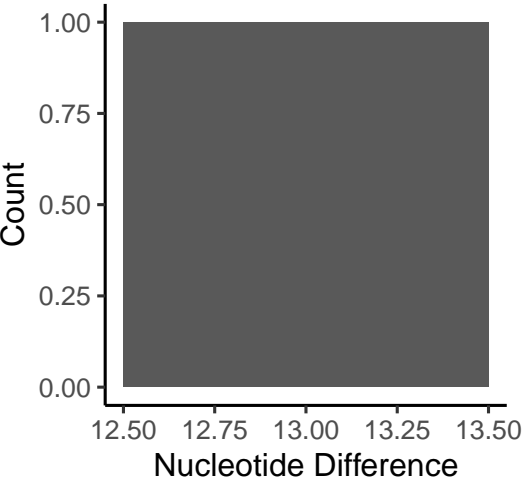
IGHV3/OR16-8*01

3 sequences assigned
No exact matches.



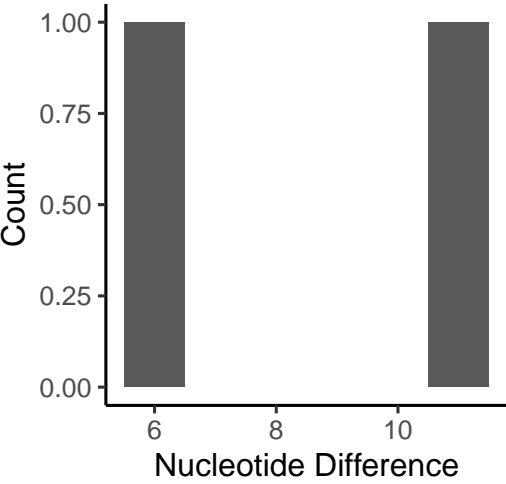
IGHV5-10-1*04

1 sequences assigned
No exact matches.



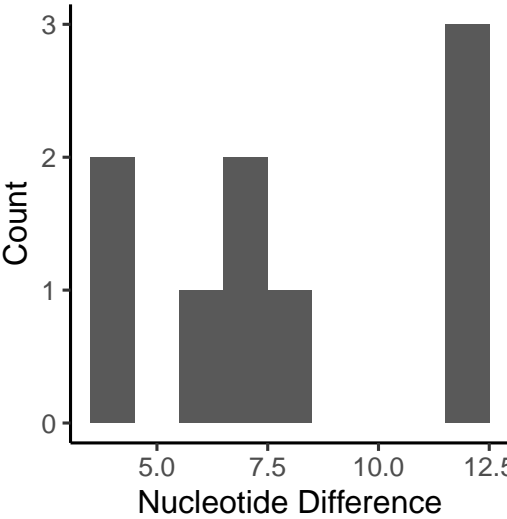
IGHV5-78*01

2 sequences assigned
No exact matches.



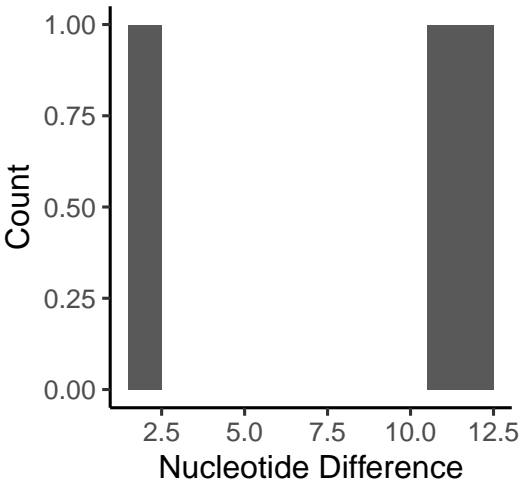
IGHV3/OR16-9*01

9 sequences assigned
No exact matches.



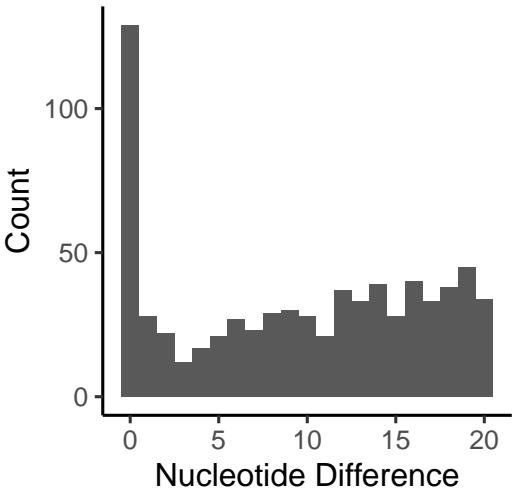
IGHV3/OR16-12*01

3 sequences assigned
No exact matches.



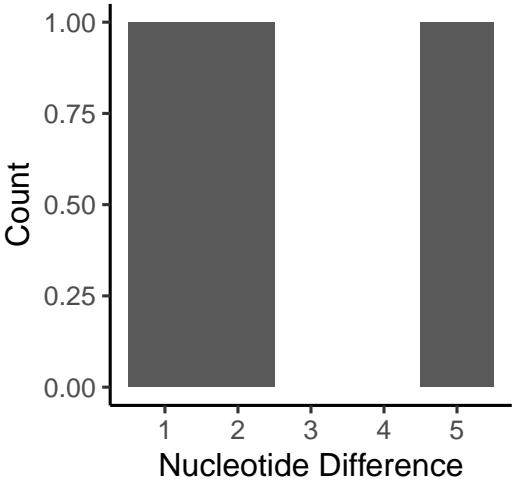
IGHV7-4-1*02

1062 sequences assigned
129 (12.1%) exact matches, in which:
129 unique CDR3
5 unique J

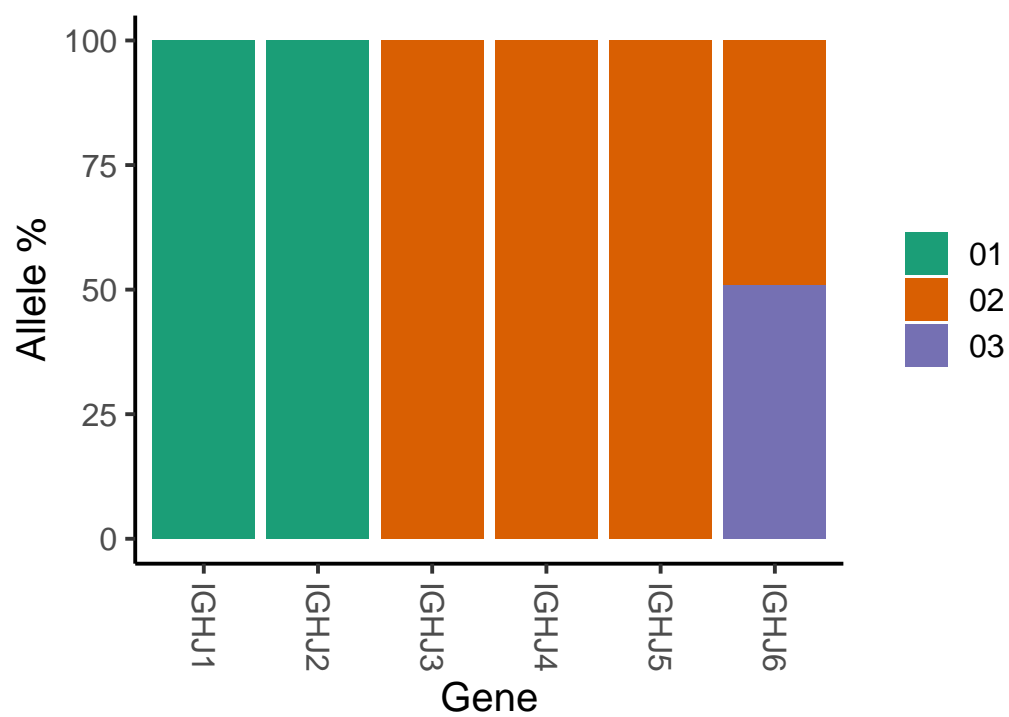


IGHV7-81*01

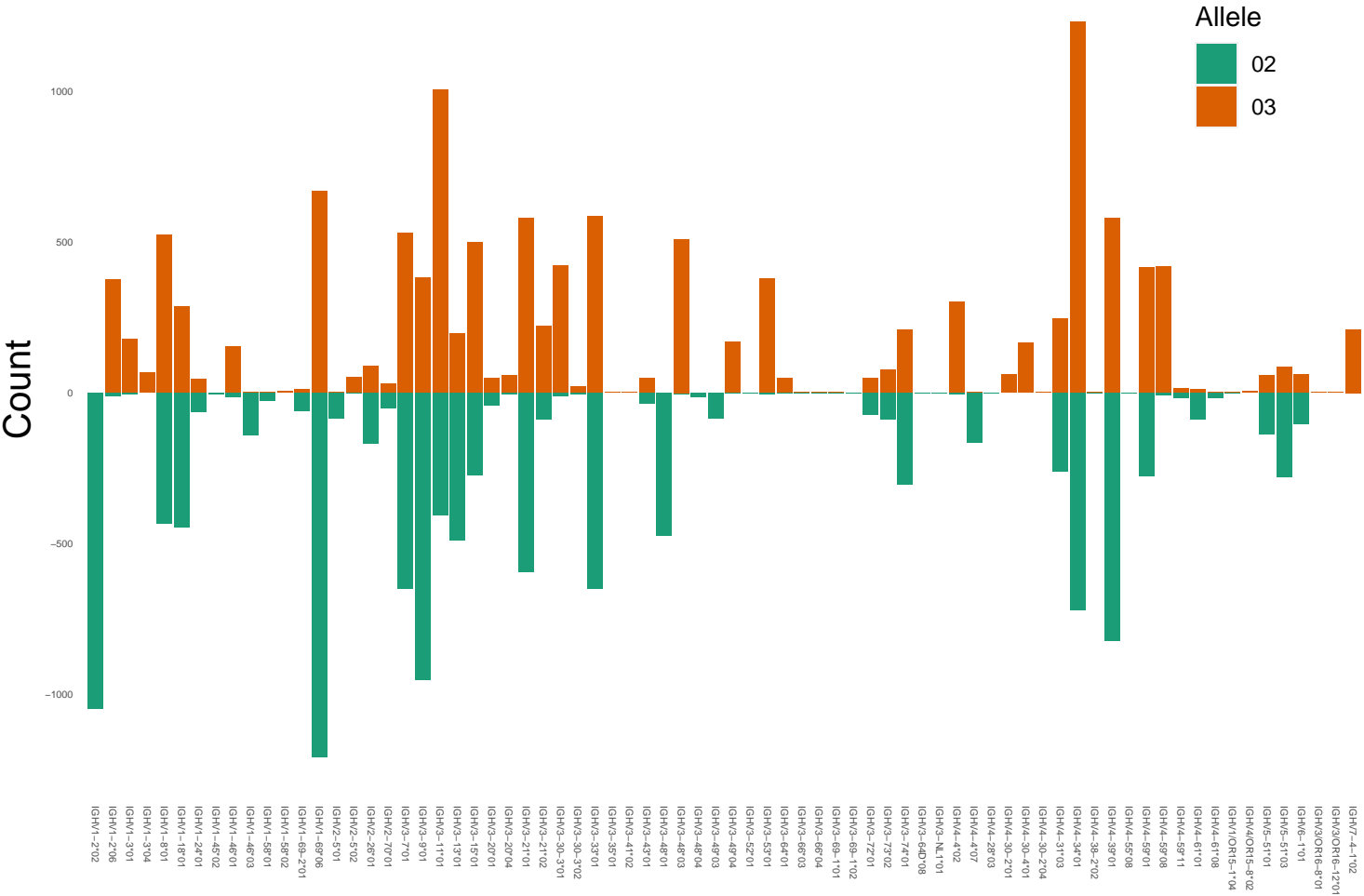
3 sequences assigned
No exact matches.



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.