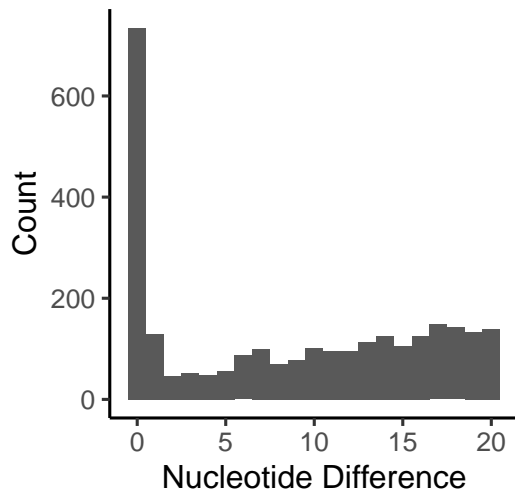


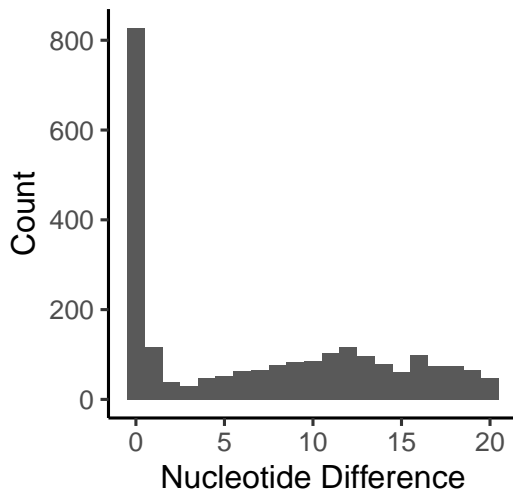
IGHV1-2*02

4293 sequences assigned
735 (17.1%) exact matches, in which:
277 unique CDR3
6 unique J



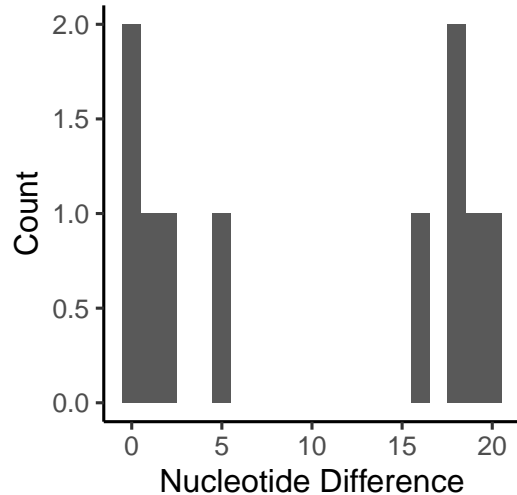
IGHV1-8*01

2873 sequences assigned
828 (28.8%) exact matches, in which:
815 unique CDR3
7 unique J



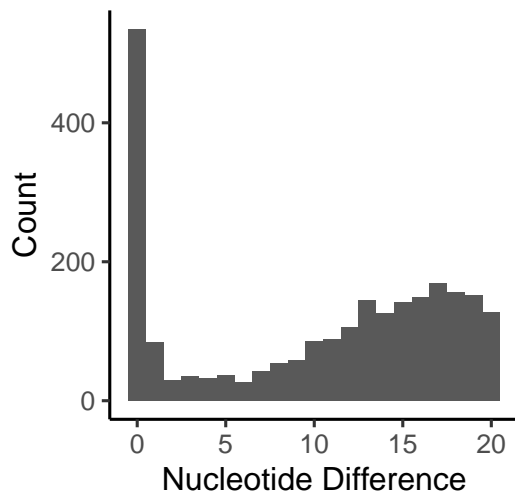
IGHV1-45*02

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



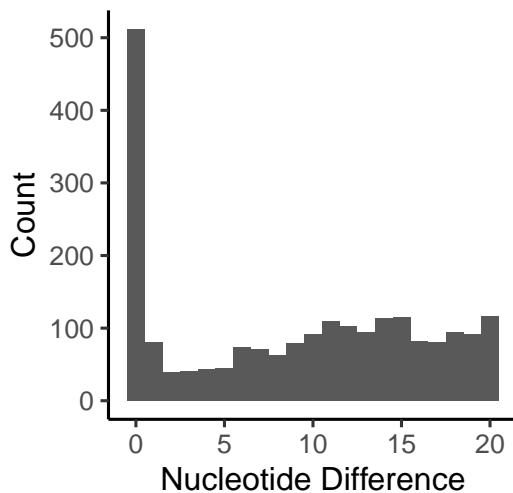
IGHV1-2*06

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



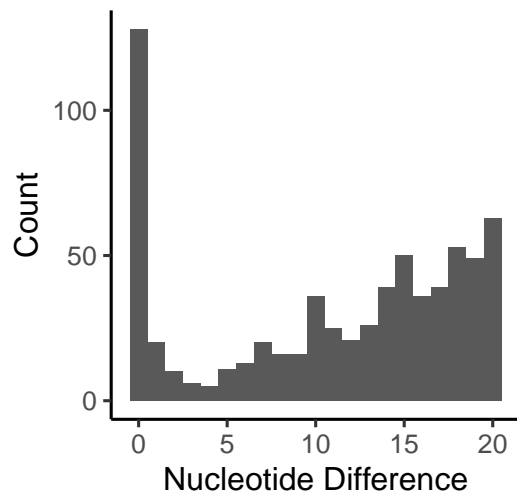
IGHV1-18*01

3431 sequences assigned
512 (14.9%) exact matches, in which:
506 unique CDR3
7 unique J



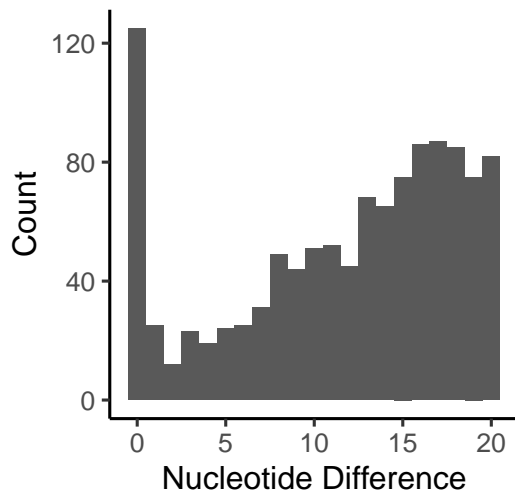
IGHV1-46*01

1273 sequences assigned
128 (10.1%) exact matches, in which:
126 unique CDR3
6 unique J



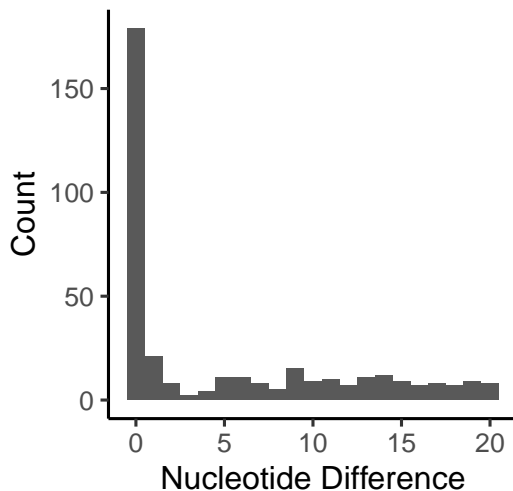
IGHV1-3*01

1906 sequences assigned
125 (6.6%) exact matches, in which:
123 unique CDR3
7 unique J



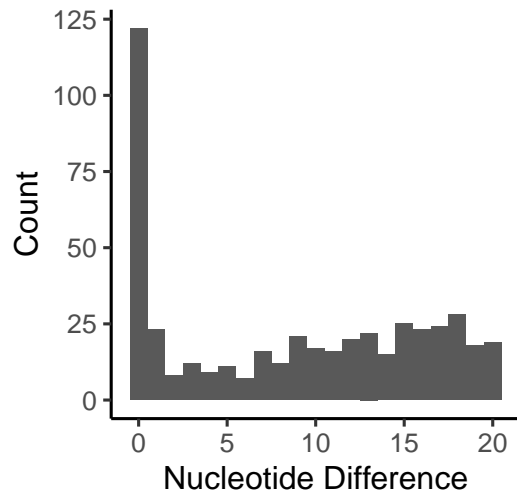
IGHV1-24*01

456 sequences assigned
179 (39.3%) exact matches, in which:
179 unique CDR3
7 unique J



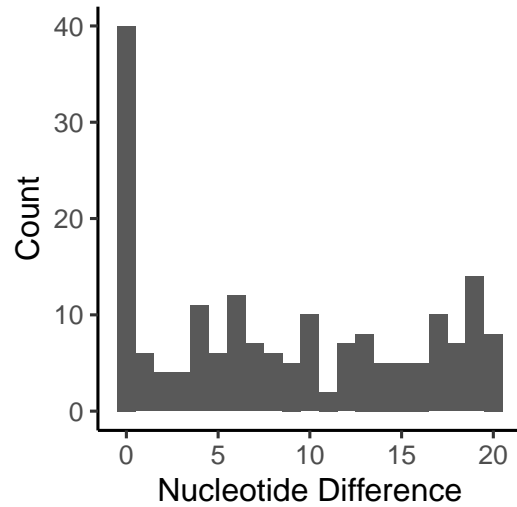
IGHV1-46*03

789 sequences assigned
122 (15.5%) exact matches, in which:
122 unique CDR3
7 unique J



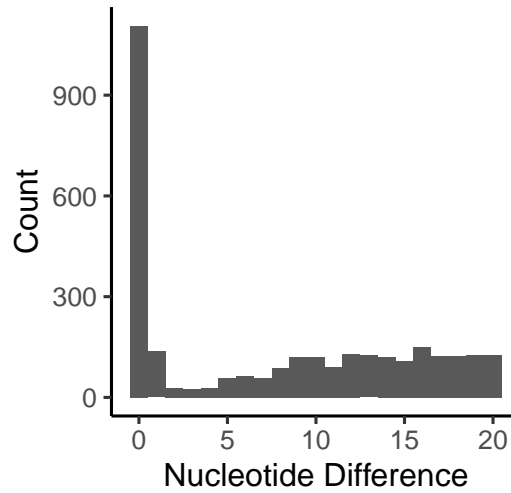
IGHV1-58*01

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



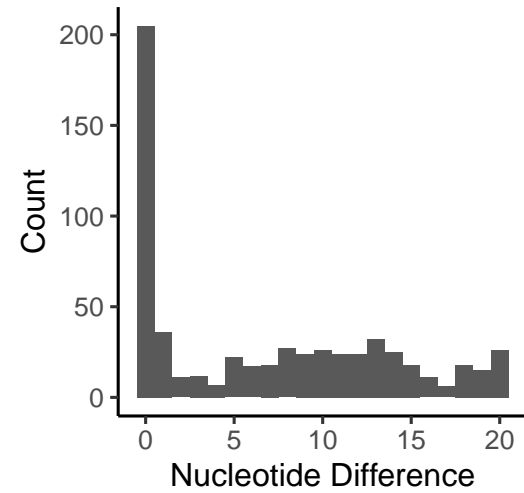
IGHV1-69*06

4737 sequences assigned
1107 (23.4%) exact matches, in which:
1106 unique CDR3
7 unique J



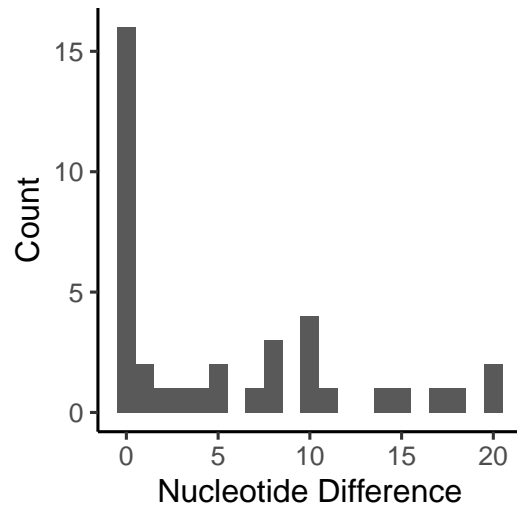
IGHV2-26*01

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



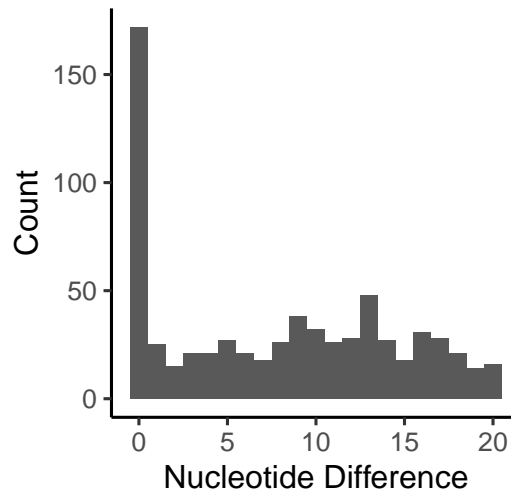
IGHV1-58*02

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



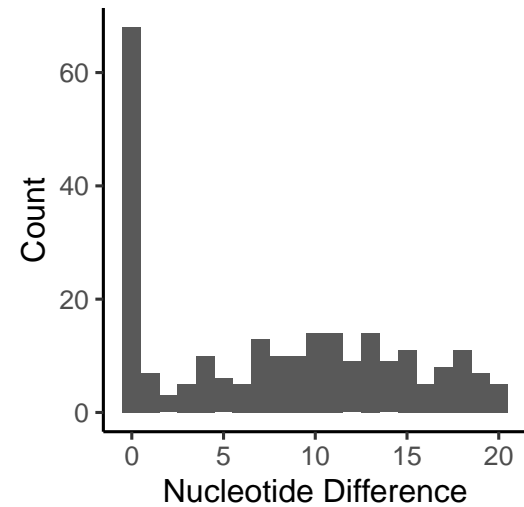
IGHV2-5*01

870 sequences assigned
172 (19.8%) exact matches, in which:
171 unique CDR3
6 unique J



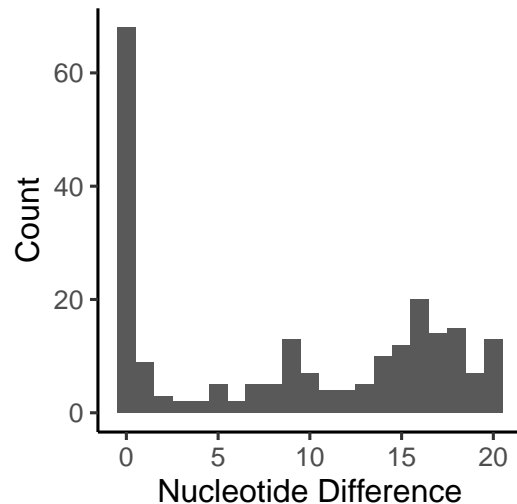
IGHV2-70*01

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



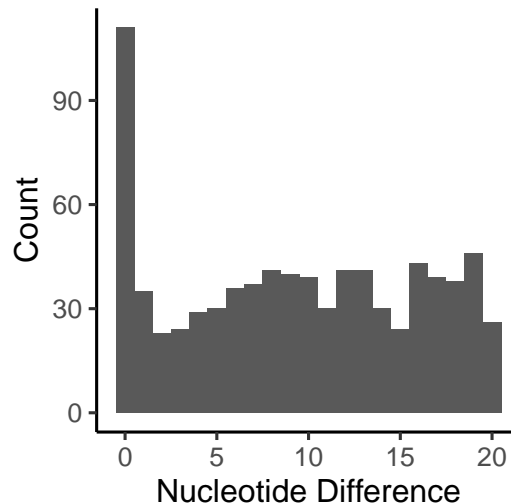
IGHV1-69-2*01

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



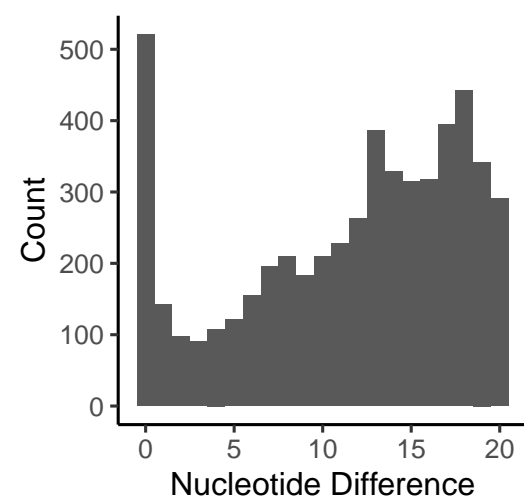
IGHV2-5*02

1090 sequences assigned
111 (10.2%) exact matches, in which:
111 unique CDR3
6 unique J



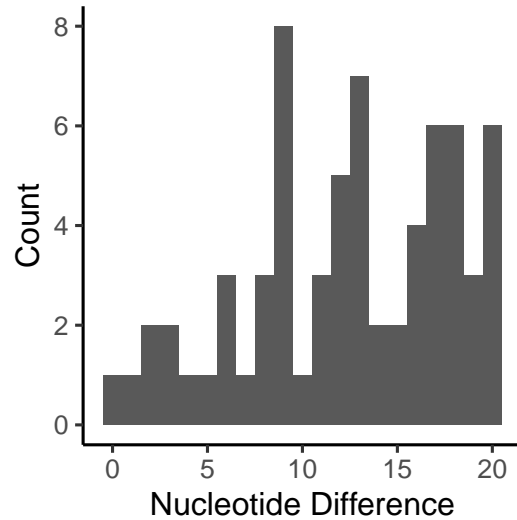
IGHV3-7*01

9957 sequences assigned
521 (5.2%) exact matches, in which:
515 unique CDR3
7 unique J



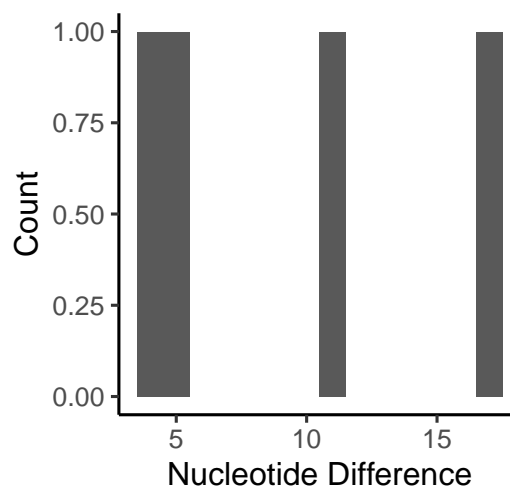
IGHV3-7*03

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



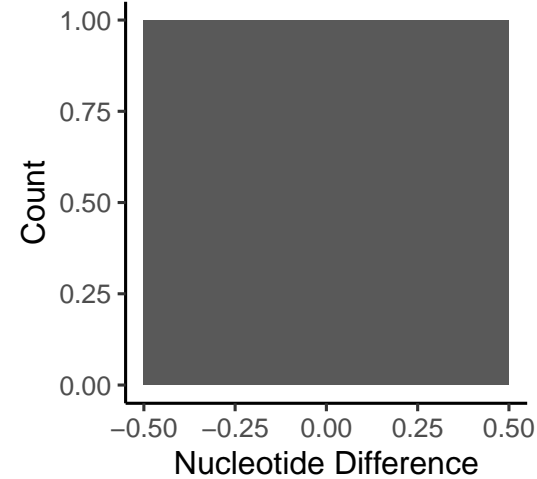
IGHV3-11*06

5 sequences assigned
No exact matches.



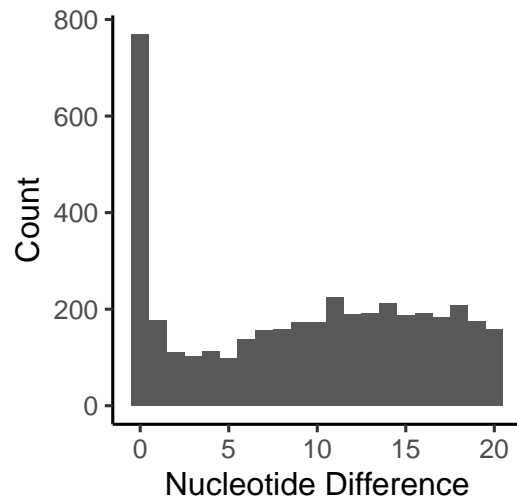
IGHV3-19*01

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



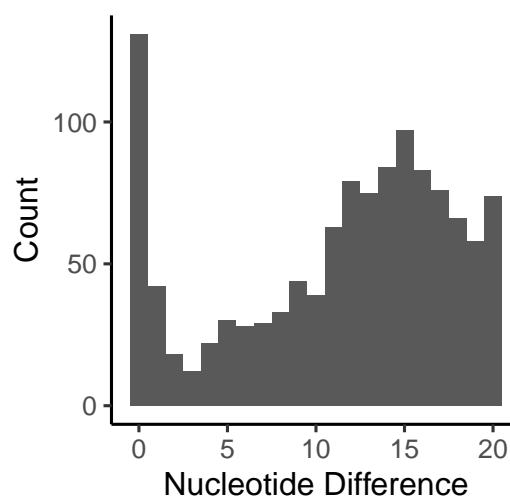
IGHV3-9*01

5909 sequences assigned
770 (13%) exact matches, in which:
760 unique CDR3
7 unique J



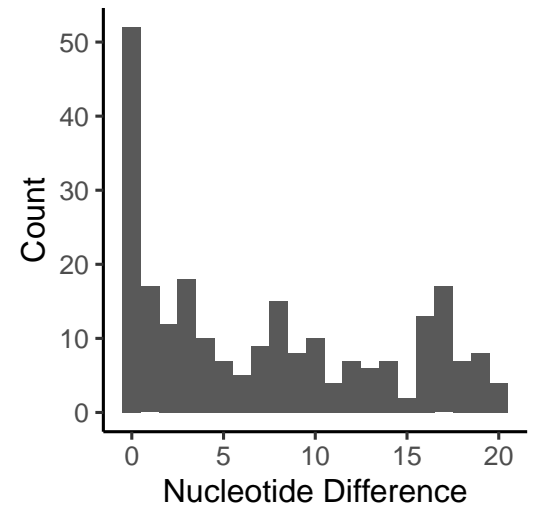
IGHV3-13*01

1757 sequences assigned
131 (7.5%) exact matches, in which:
121 unique CDR3
6 unique J



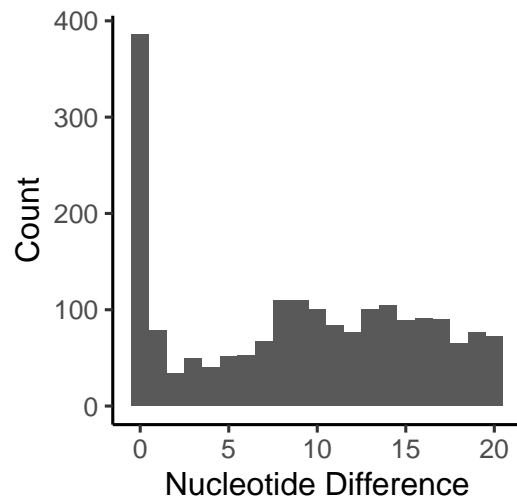
IGHV3-20*01

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



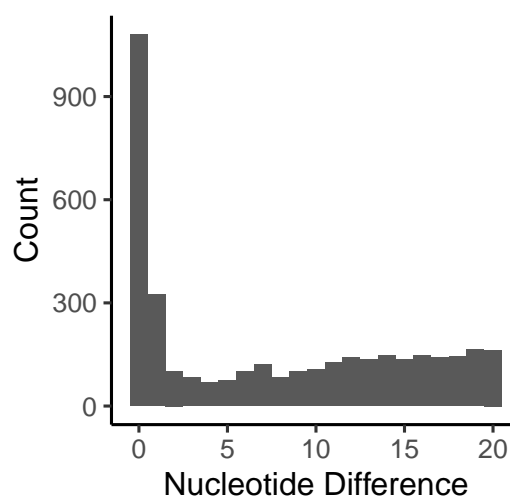
IGHV3-11*01

3552 sequences assigned
386 (10.9%) exact matches, in which:
384 unique CDR3
7 unique J



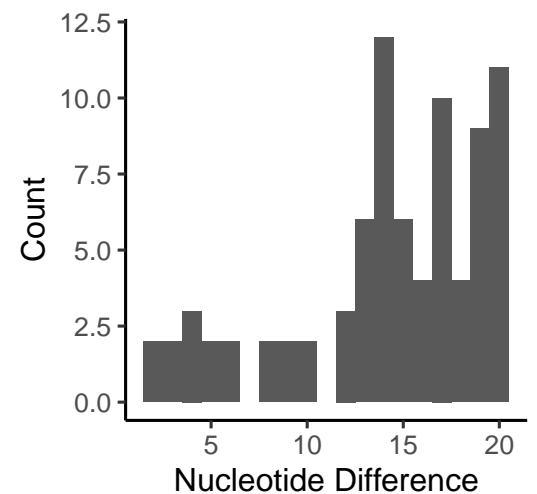
IGHV3-15*01

5695 sequences assigned
1081 (19%) exact matches, in which:
477 unique CDR3
7 unique J



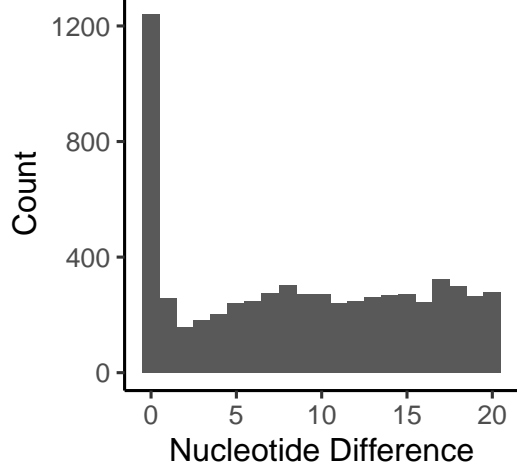
IGHV3-20*04

169 sequences assigned
No exact matches.



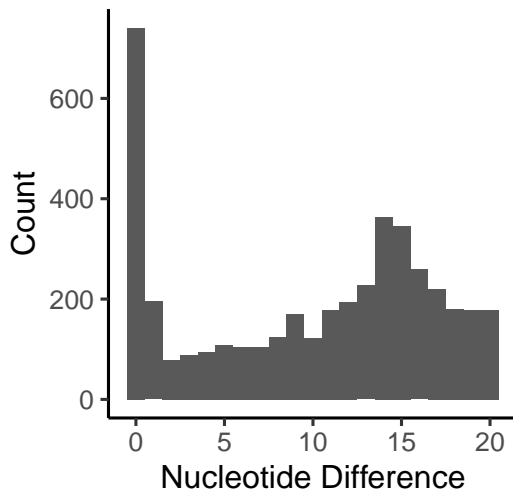
IGHV3-21*01

9798 sequences assigned
1240 (12.7%) exact matches, in which:
1211 unique CDR3
7 unique J



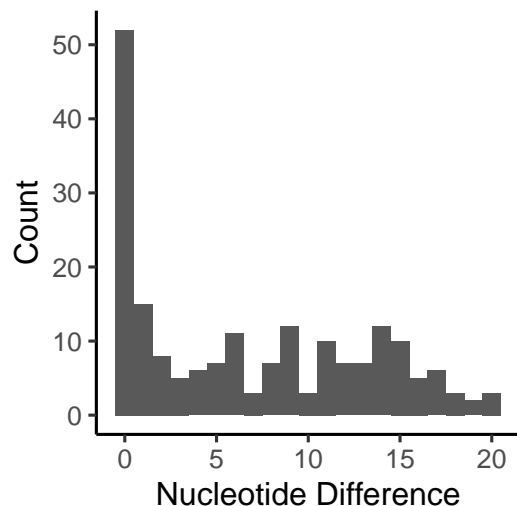
IGHV3-33*01

5888 sequences assigned
741 (12.6%) exact matches, in which:
726 unique CDR3
7 unique J



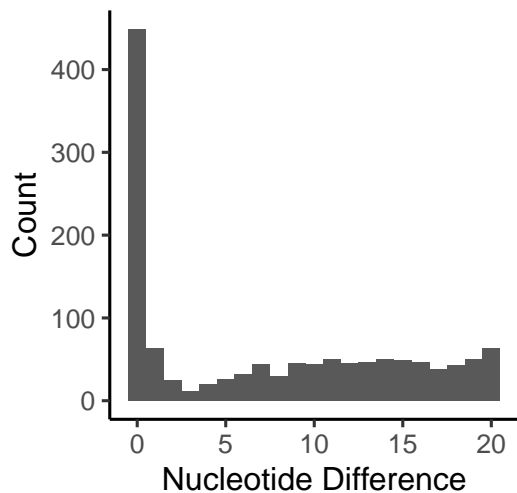
IGHV3-43*01

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



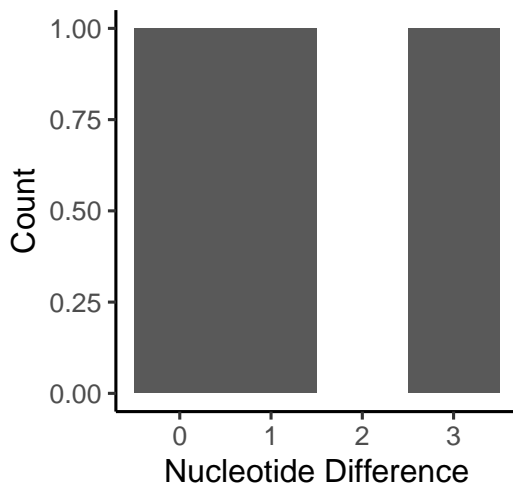
IGHV3-30-3*01

1958 sequences assigned
449 (22.9%) exact matches, in which:
448 unique CDR3
7 unique J



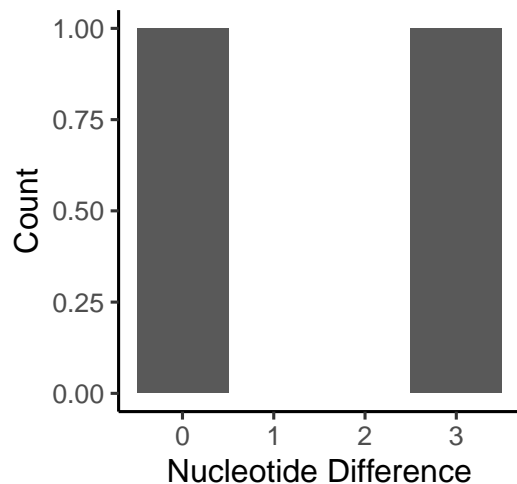
IGHV3-35*01

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



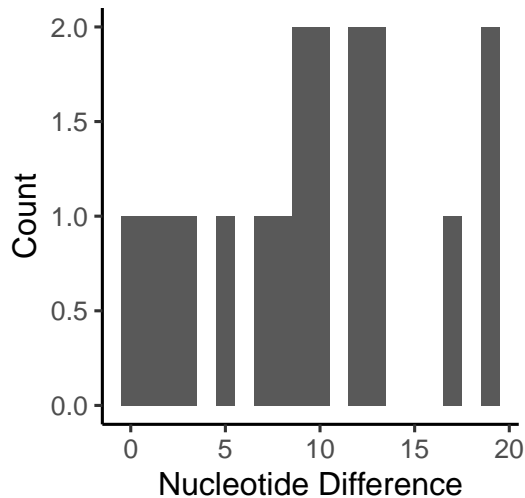
IGHV3-47*02

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



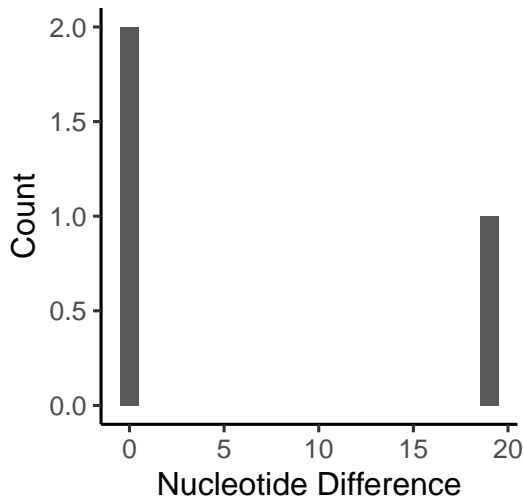
IGHV3-30-3*02

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



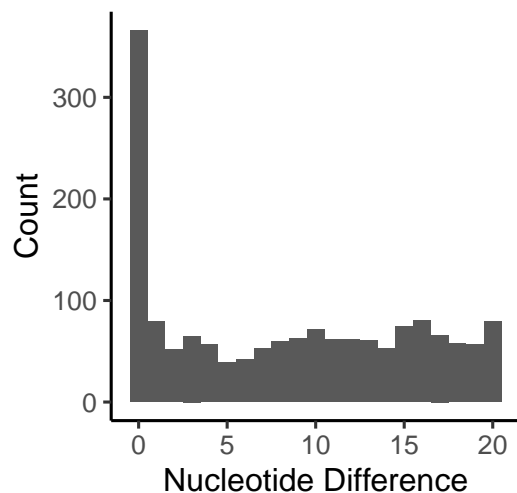
IGHV3-41*02

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



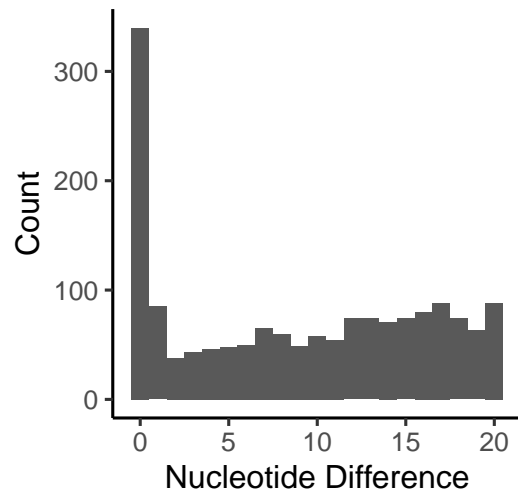
IGHV3-48*01

2358 sequences assigned
366 (15.5%) exact matches, in which:
357 unique CDR3
6 unique J



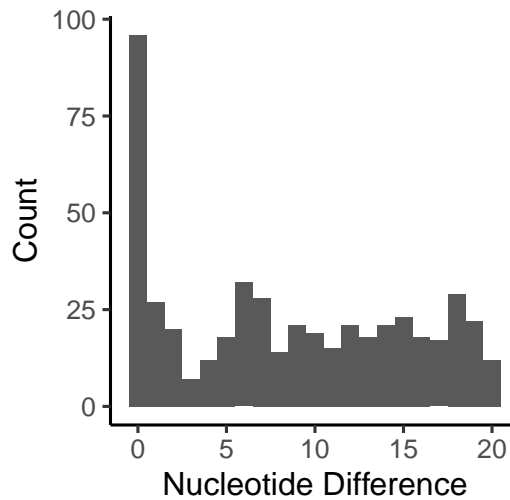
IGHV3-48*03

2480 sequences assigned
340 (13.7%) exact matches, in which:
337 unique CDR3
6 unique J



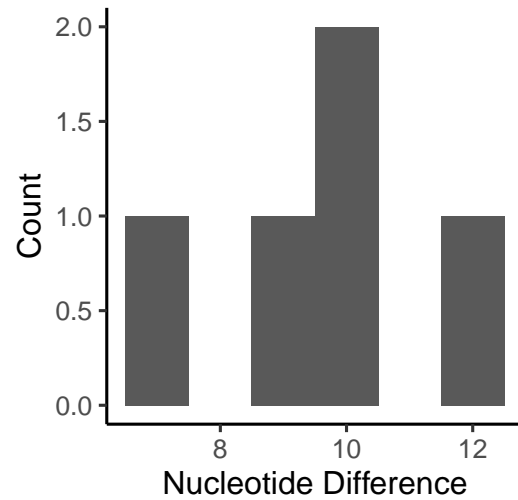
IGHV3-49*04

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



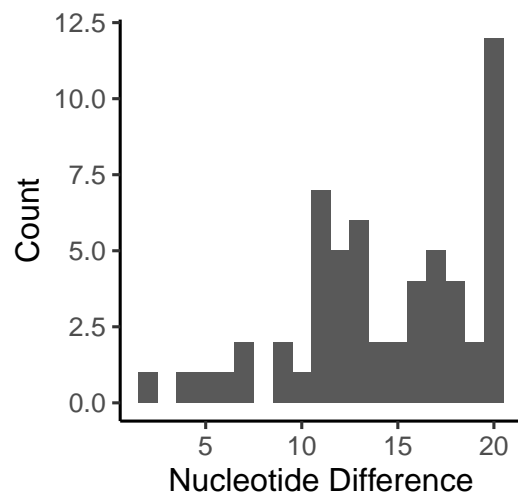
IGHV3-62*03

5 sequences assigned
No exact matches.



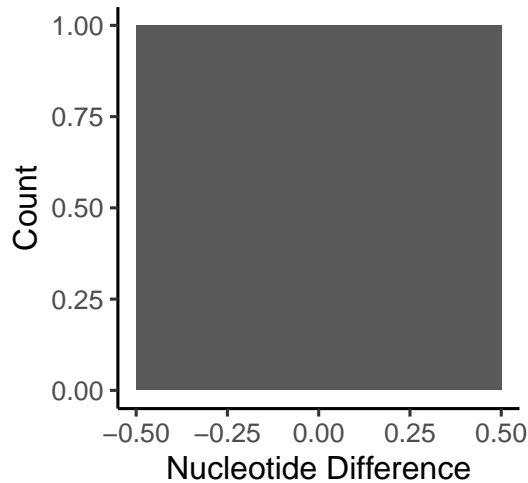
IGHV3-48*04

141 sequences assigned
No exact matches.



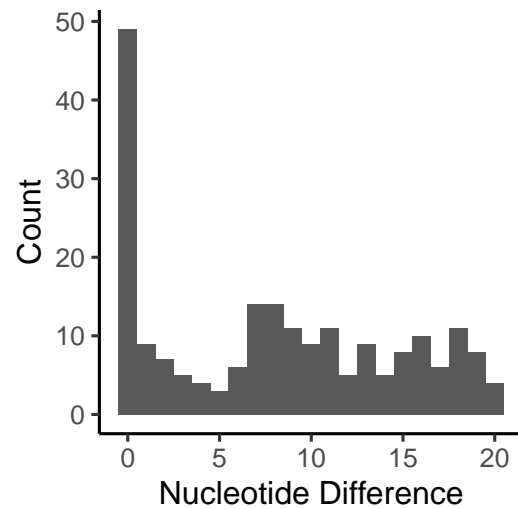
IGHV3-52*01

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



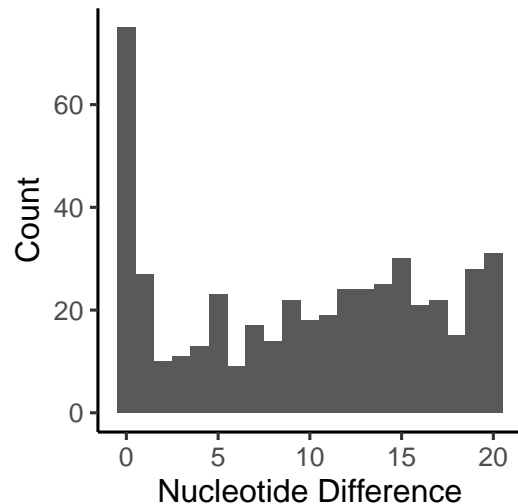
IGHV3-64*01

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



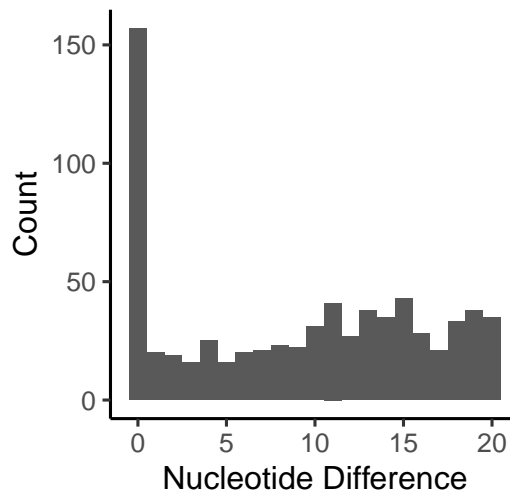
IGHV3-49*03

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



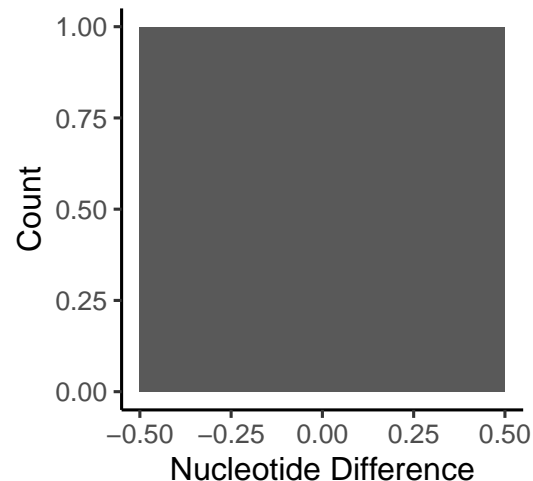
IGHV3-53*01

1255 sequences assigned
157 (12.5%) exact matches, in which:
155 unique CDR3
5 unique J



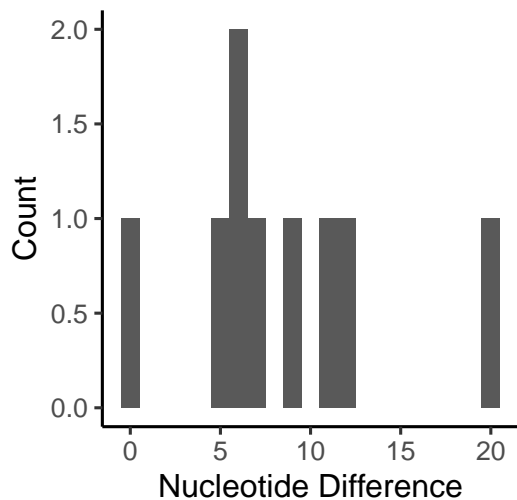
IGHV3-66*01

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



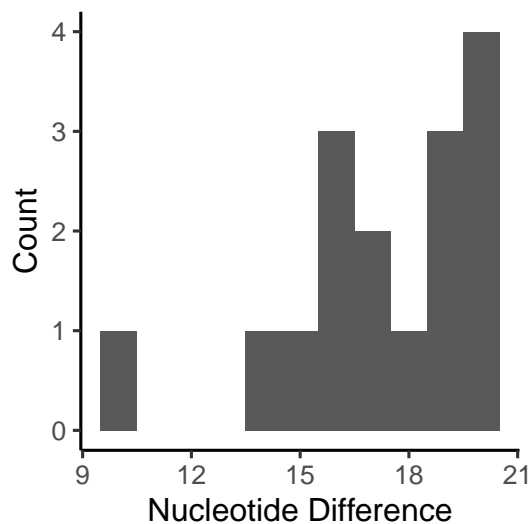
IGHV3-66*03

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



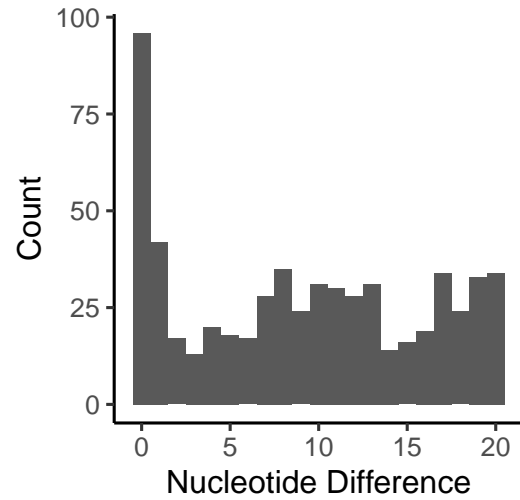
IGHV3-69-1*02

71 sequences assigned
No exact matches.



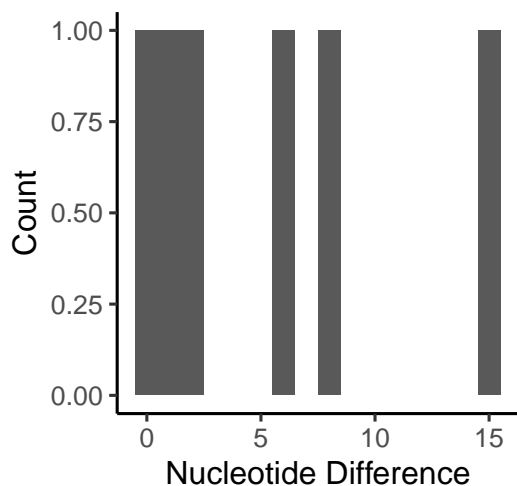
IGHV3-73*02

1056 sequences assigned
96 (9.1%) exact matches, in which:
95 unique CDR3
6 unique J



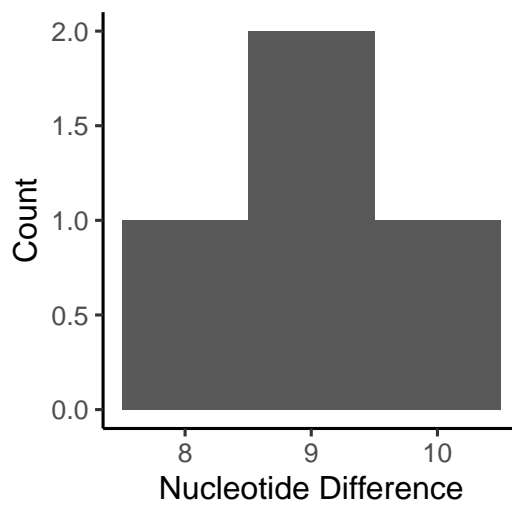
IGHV3-66*04

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



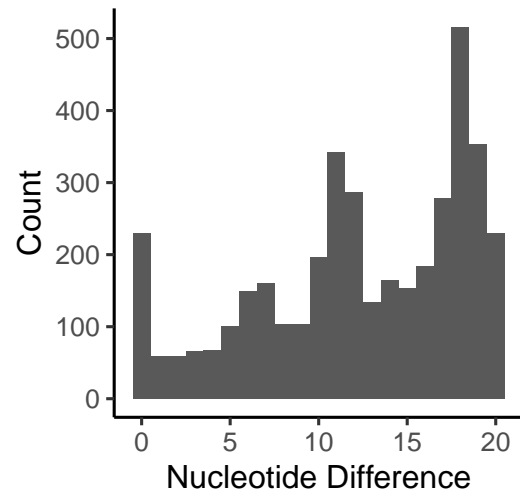
IGHV3-71*01

4 sequences assigned
No exact matches.



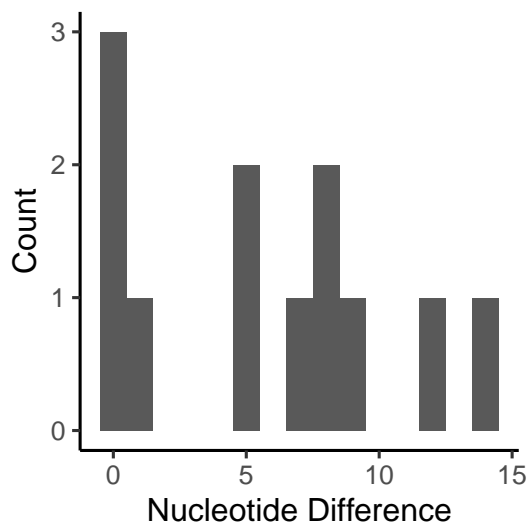
IGHV3-74*01

5190 sequences assigned
230 (4.4%) exact matches, in which:
223 unique CDR3
7 unique J



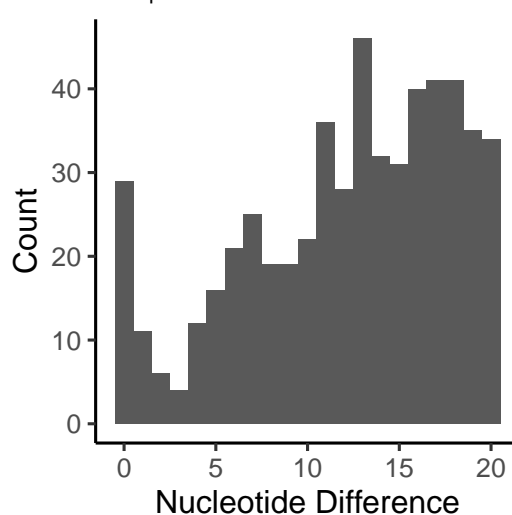
IGHV3-69-1*01

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



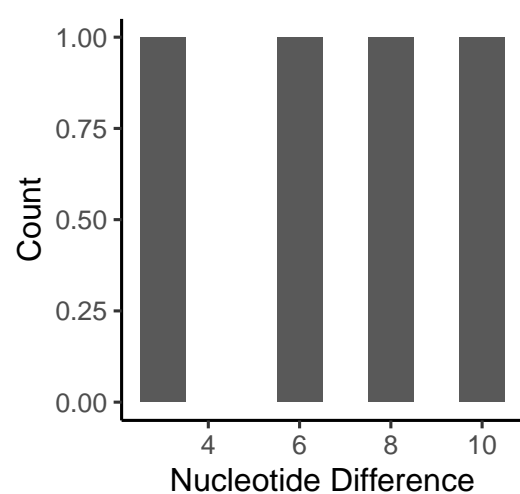
IGHV3-72*01

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



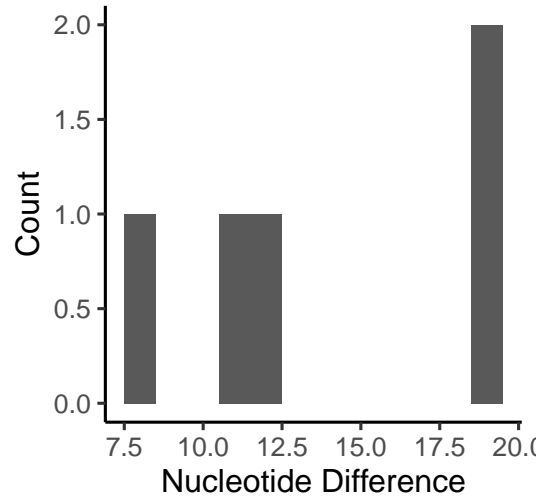
IGHV3-64D*08

4 sequences assigned
No exact matches.



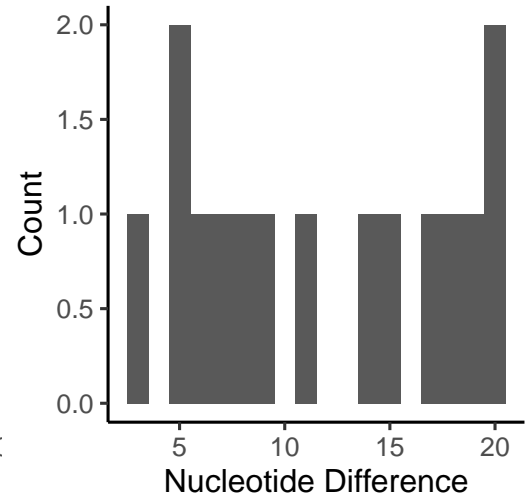
IGHV3–NL1*01

5 sequences assigned
No exact matches.



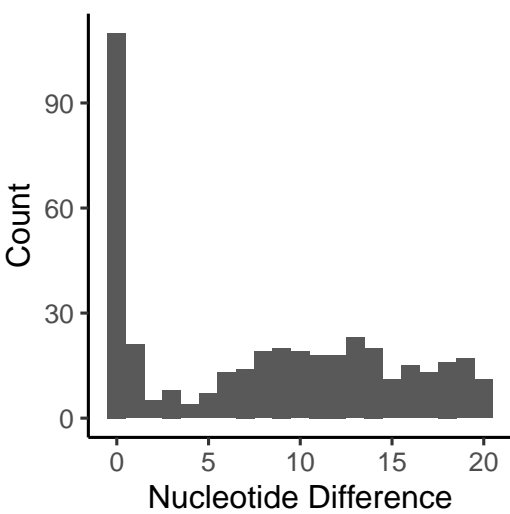
IGHV4–28*01

19 sequences assigned
No exact matches.



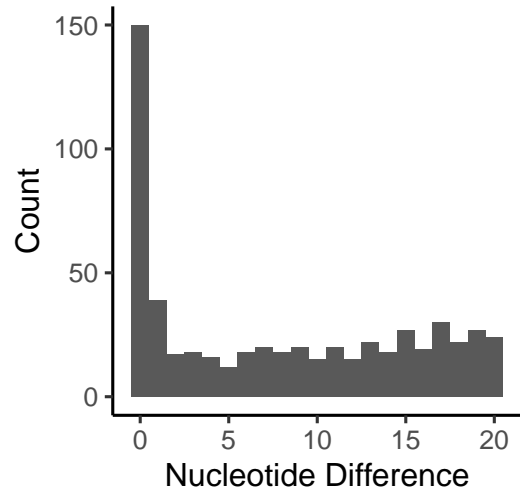
IGHV4–30–4*01

599 sequences assigned
110 (18.4%) exact matches, in which:
104 unique CDR3
5 unique J



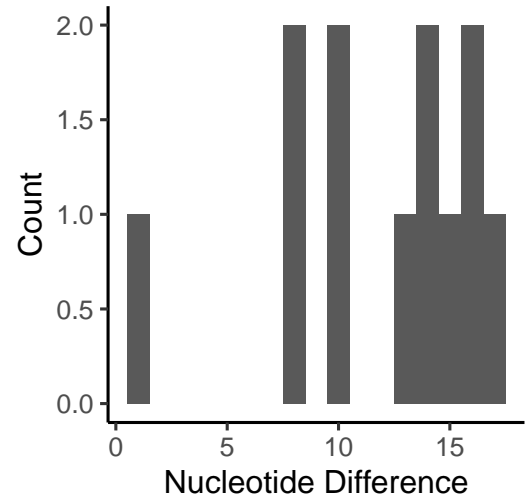
IGHV4–4*02

966 sequences assigned
150 (15.5%) exact matches, in which:
147 unique CDR3
6 unique J



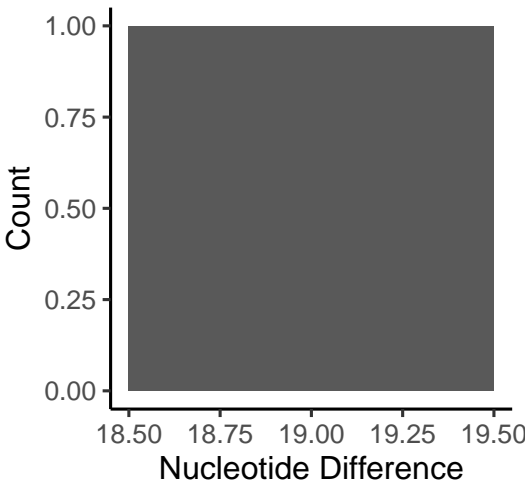
IGHV4–28*03

13 sequences assigned
No exact matches.



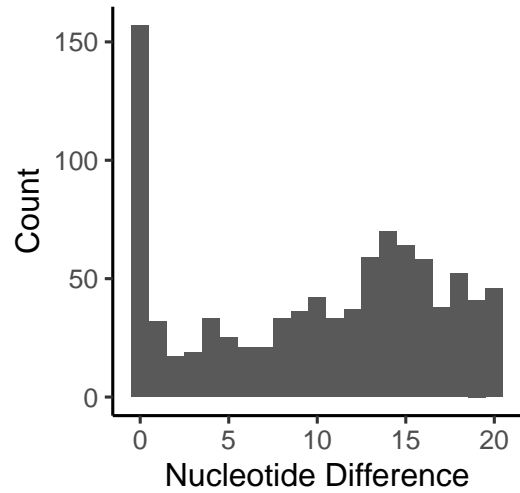
IGHV4–30–2*04

3 sequences assigned
No exact matches.



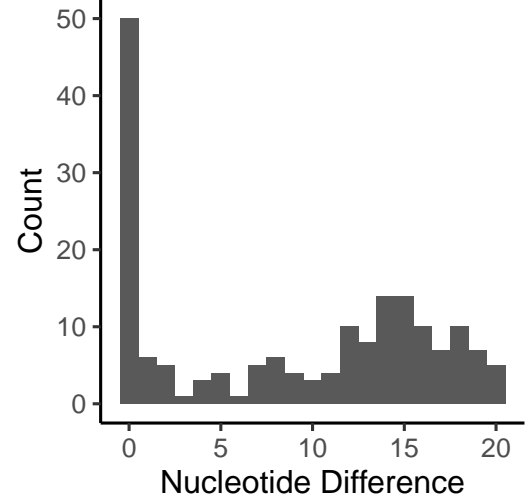
IGHV4–4*07

1505 sequences assigned
157 (10.4%) exact matches, in which:
152 unique CDR3
7 unique J



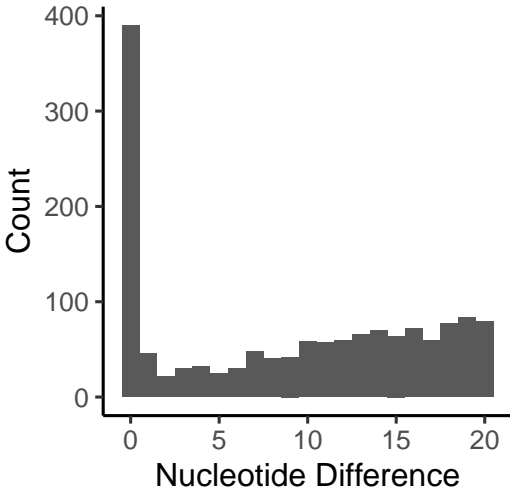
IGHV4–30–2*01

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



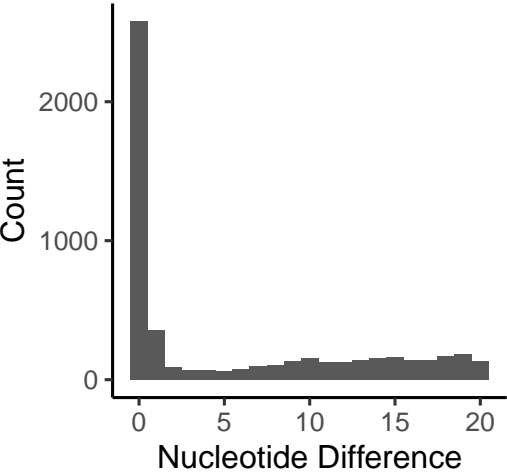
IGHV4–31*03

2721 sequences assigned
390 (14.3%) exact matches, in which:
387 unique CDR3
7 unique J



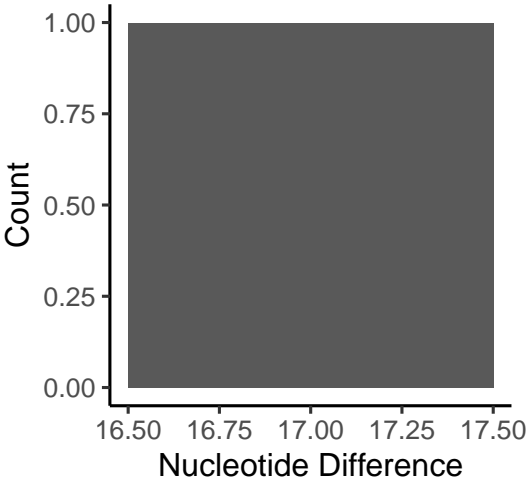
IGHV4-34*01

7237 sequences assigned
2578 (35.6%) exact matches, in which:
2571 unique CDR3
7 unique J



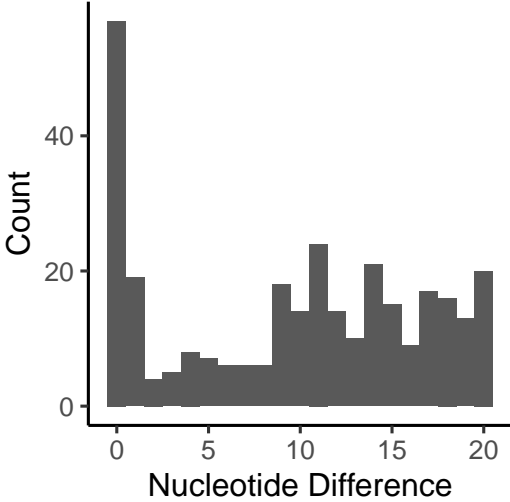
IGHV4-55*08

2 sequences assigned
No exact matches.



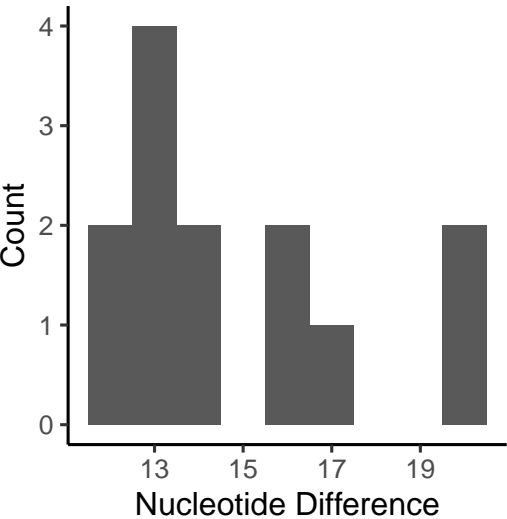
IGHV4-61*01

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



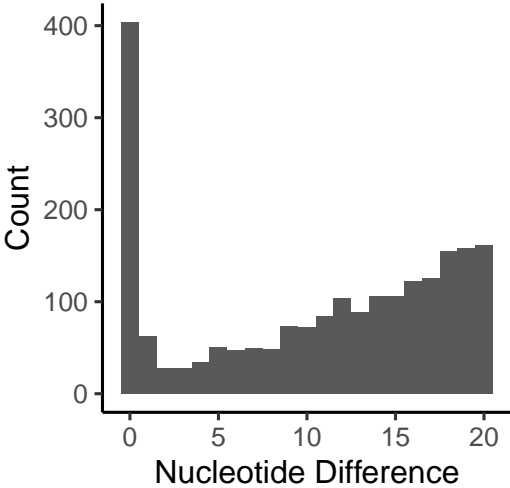
IGHV4-38-2*02

22 sequences assigned
No exact matches.



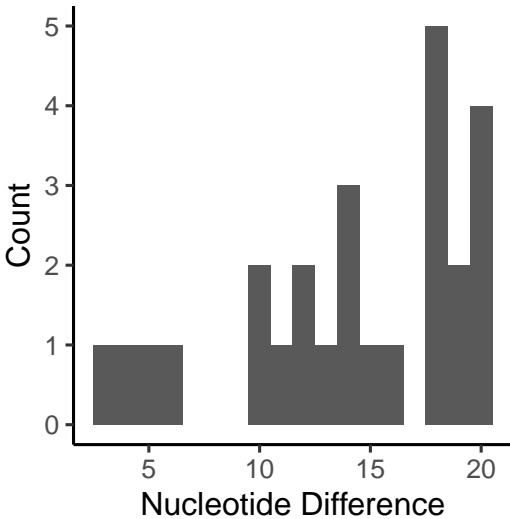
IGHV4-59*01

3987 sequences assigned
404 (10.1%) exact matches, in which:
403 unique CDR3
7 unique J



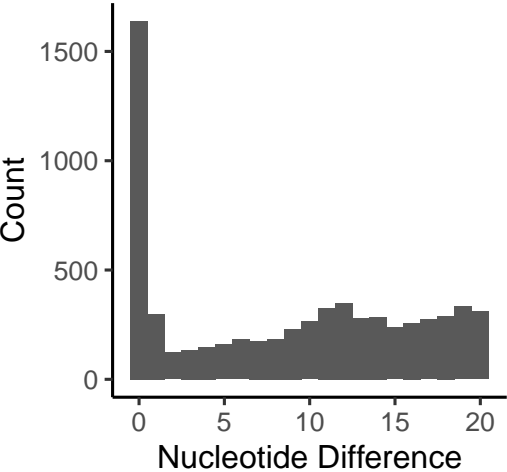
IGHV4-61*08

68 sequences assigned
No exact matches.



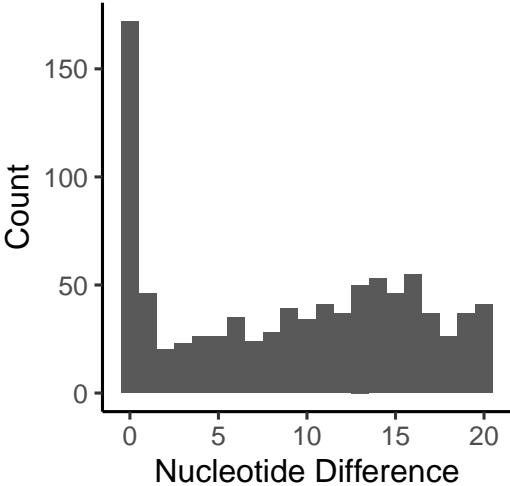
IGHV4-39*01

11031 sequences assigned
1639 (14.9%) exact matches, in which:
1609 unique CDR3
7 unique J



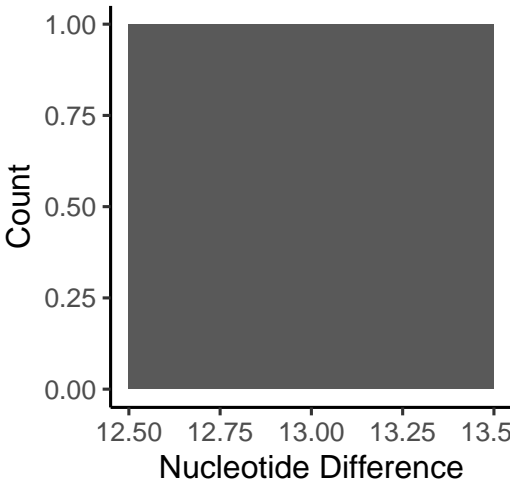
IGHV4-59*08

1552 sequences assigned
172 (11.1%) exact matches, in which:
171 unique CDR3
7 unique J



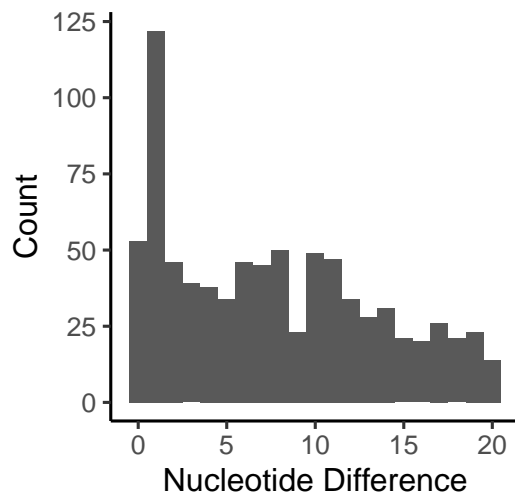
IGHV5-10-1*04

1 sequences assigned
No exact matches.



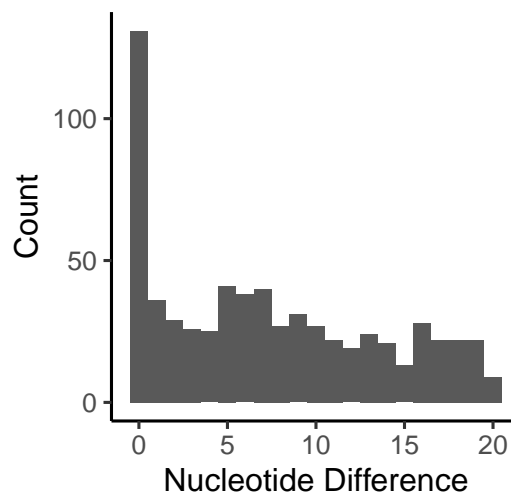
IGHV5-51*01

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



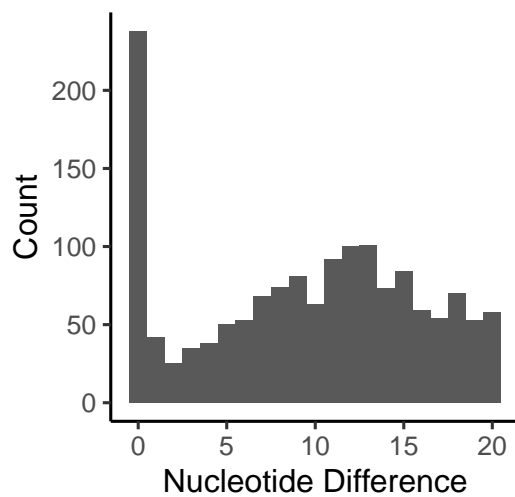
IGHV6-1*01

940 sequences assigned
131 (13.9%) exact matches, in which:
124 unique CDR3
7 unique J



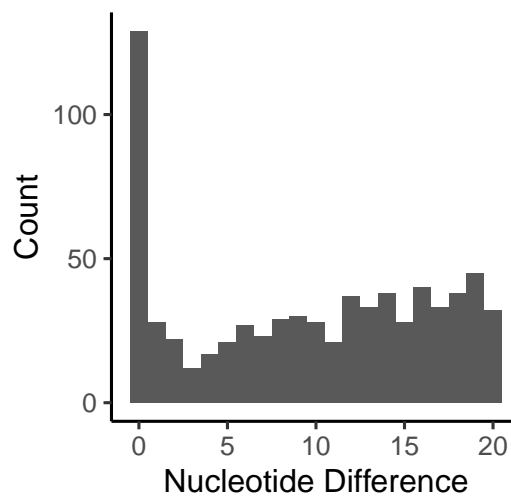
IGHV5-51*03

2142 sequences assigned
238 (11.1%) exact matches, in which:
238 unique CDR3
7 unique J



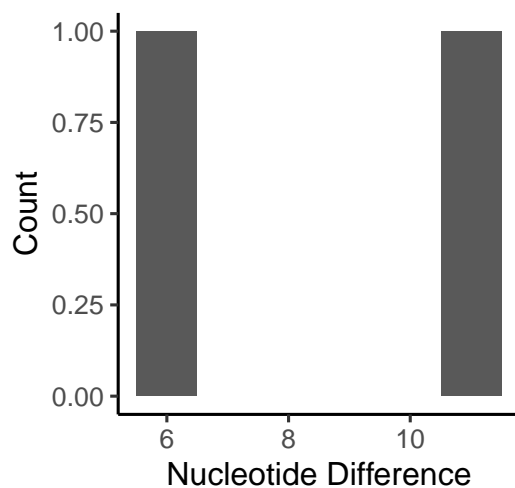
IGHV7-4-1*02

1058 sequences assigned
129 (12.2%) exact matches, in which:
129 unique CDR3
5 unique J



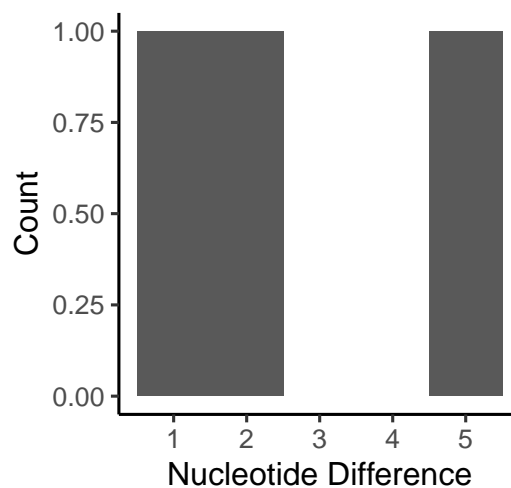
IGHV5-78*01

2 sequences assigned
No exact matches.

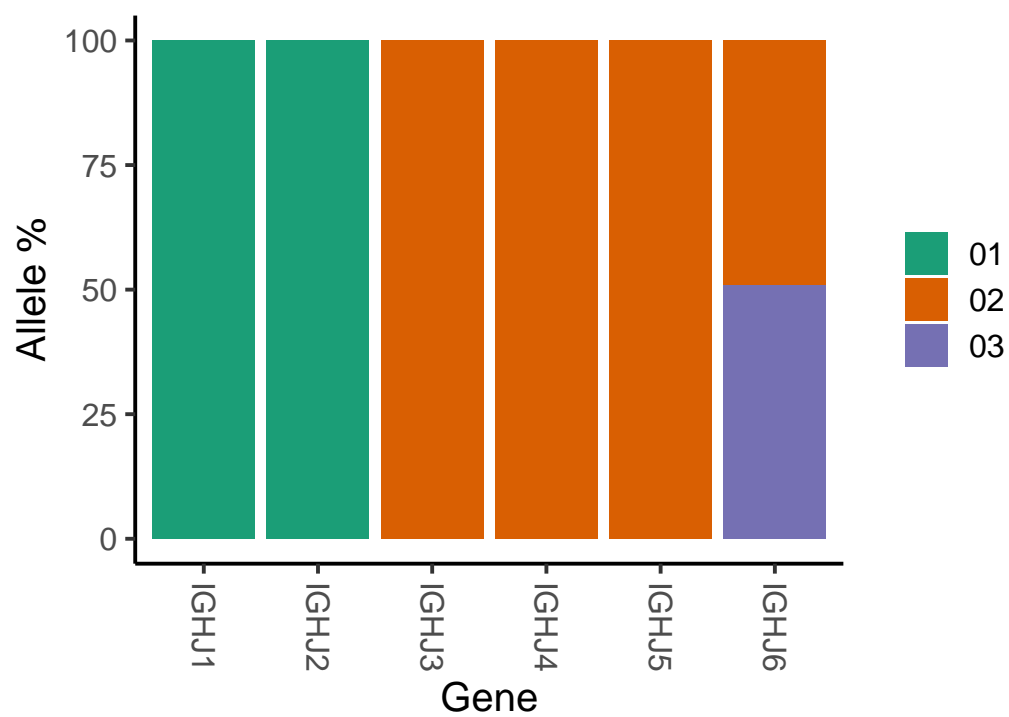


IGHV7-81*01

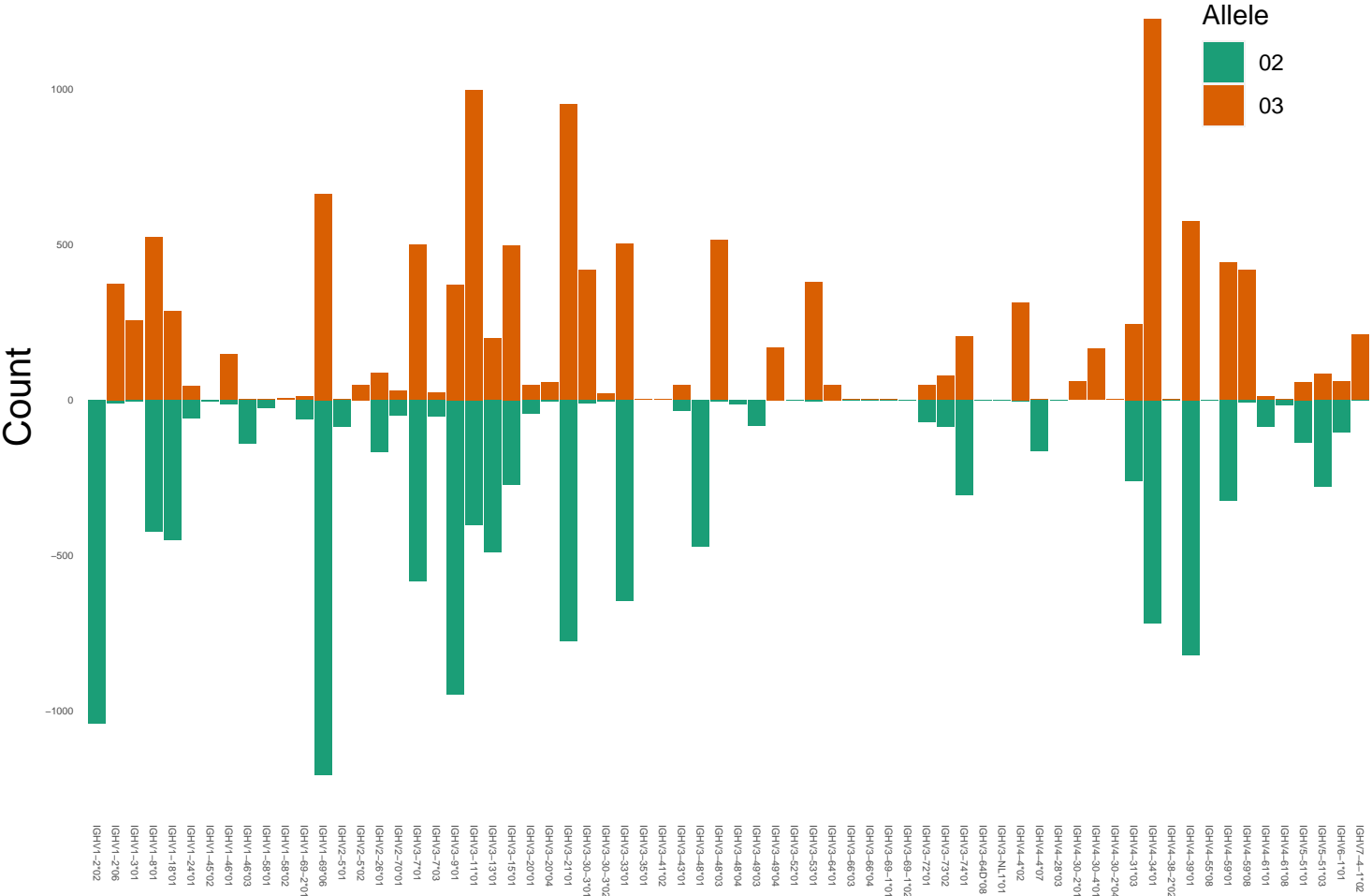
3 sequences assigned
No exact matches.



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.