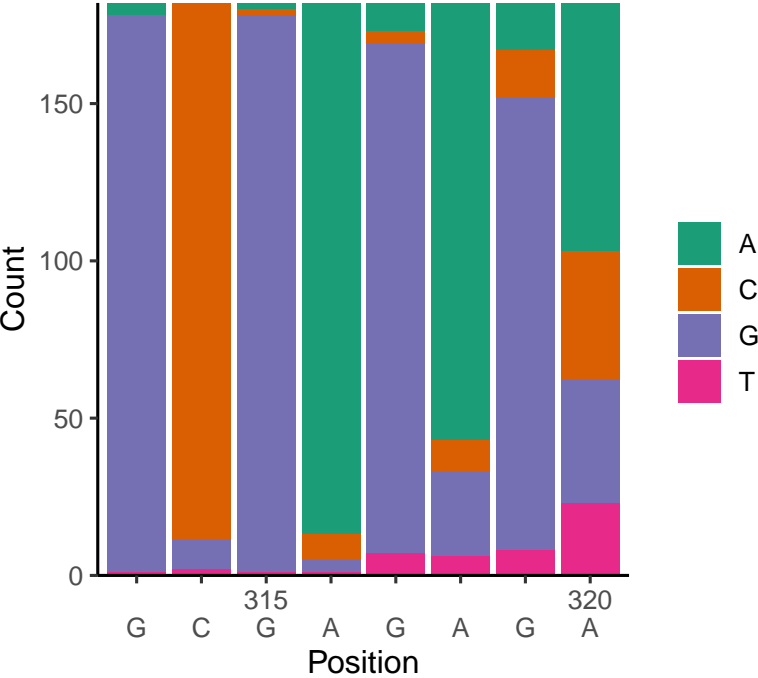
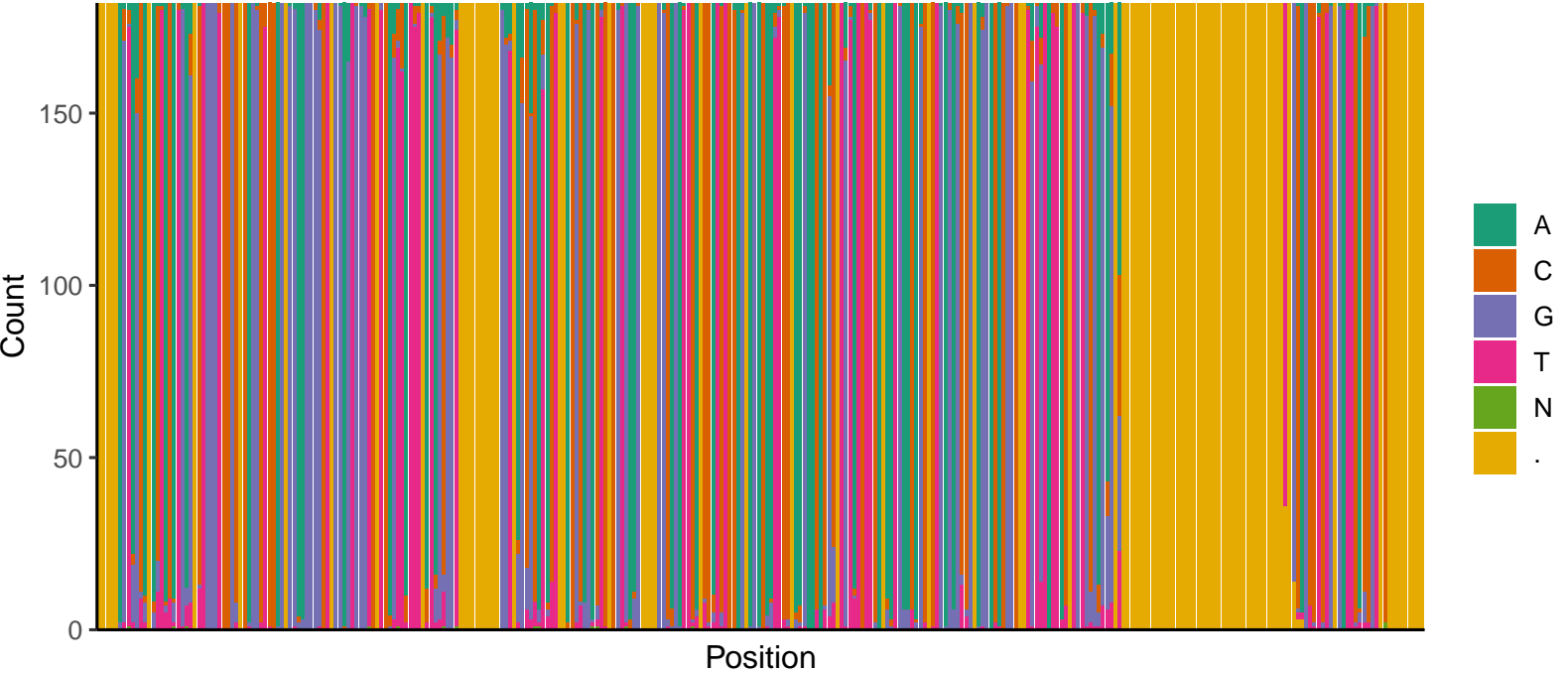


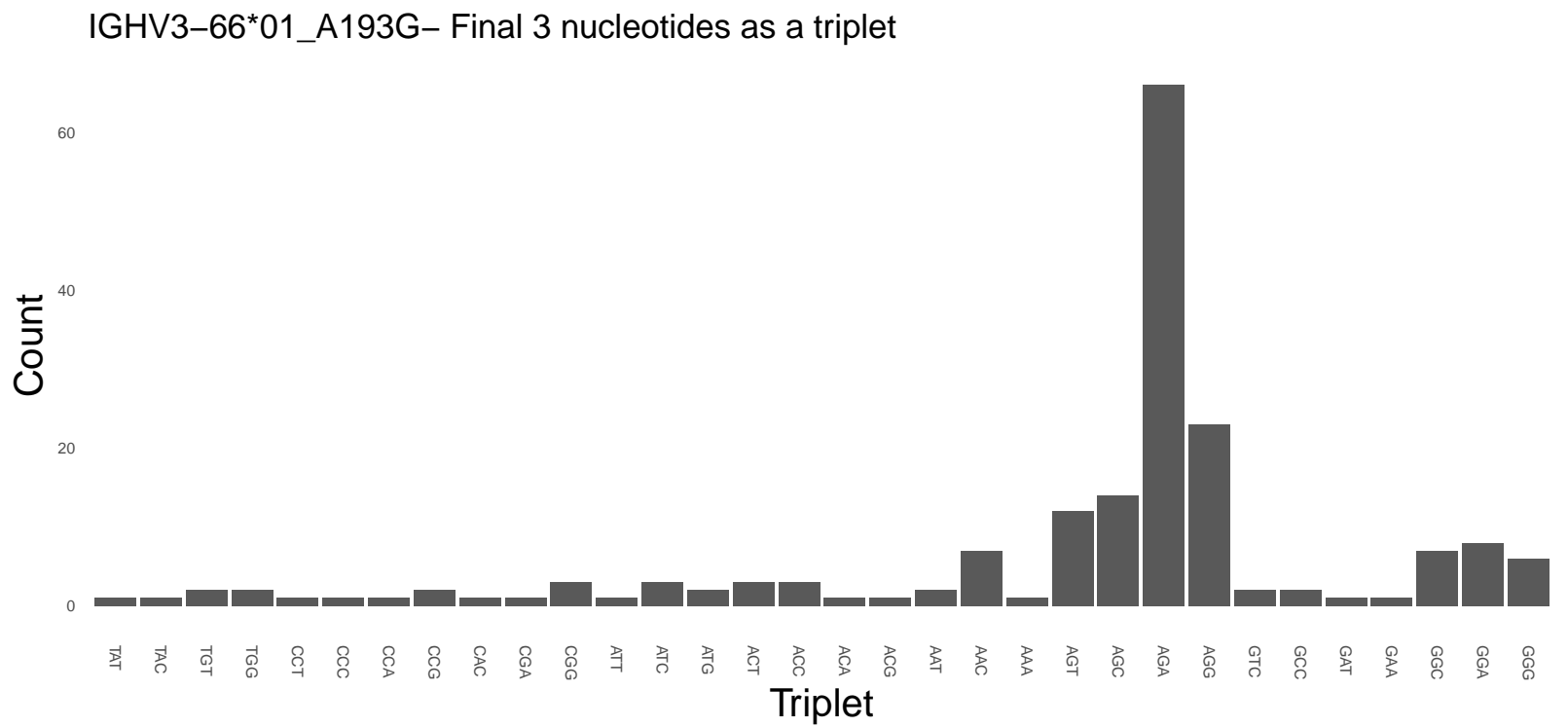
Gene IGHV3-66*01_A193G



Gene IGHV3-66*01_A193G

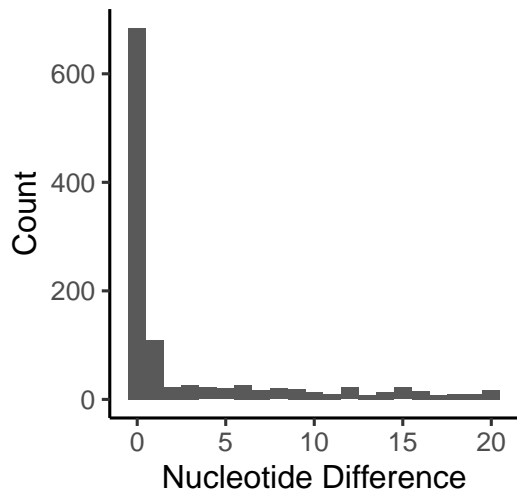


IGHV3-66*01_A193G- Final 3 nucleotides as a triplet



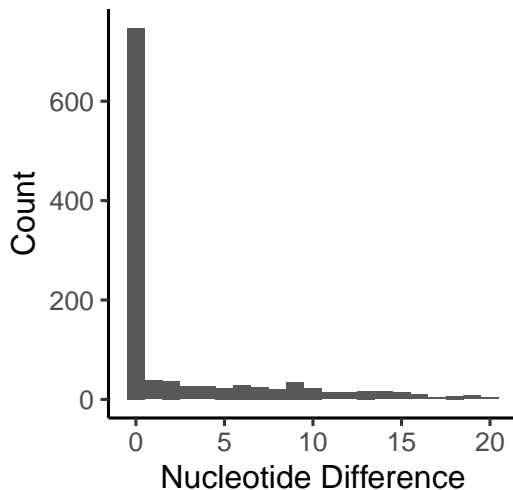
IGHV1-2*02

1200 sequences assigned
685 (57.1%) exact matches, in which:
683 unique CDR3
6 unique J



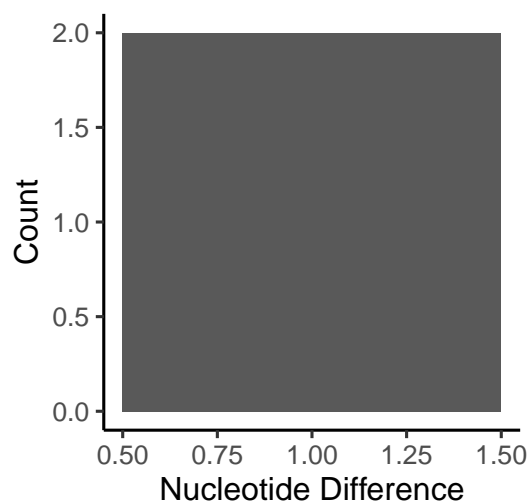
IGHV1-18*01

1184 sequences assigned
748 (63.2%) exact matches, in which:
744 unique CDR3
6 unique J



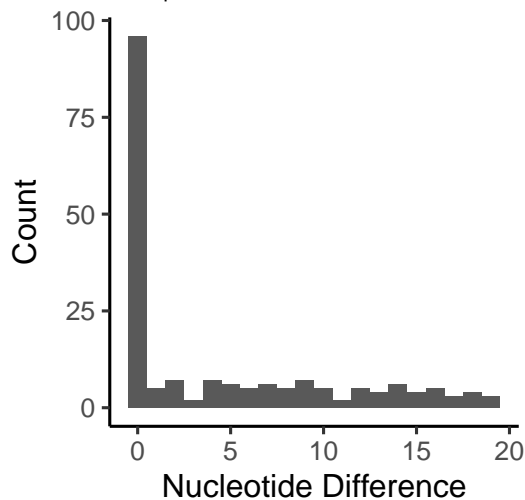
IGHV1-38-4*01

2 sequences assigned
No exact matches.



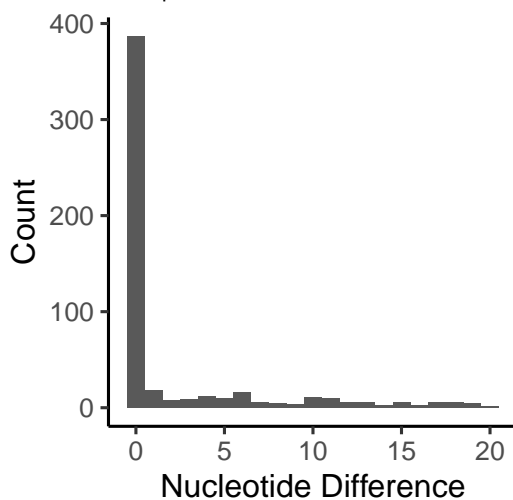
IGHV1-3*01_05

200 sequences assigned
96 (48%) exact matches, in which:
94 unique CDR3
5 unique J



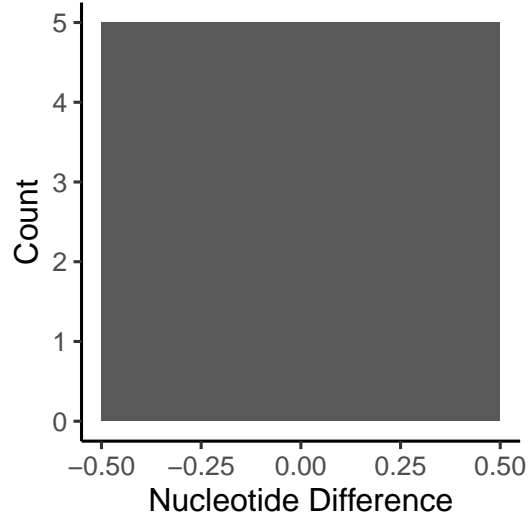
IGHV1-18*04

565 sequences assigned
387 (68.5%) exact matches, in which:
386 unique CDR3
6 unique J



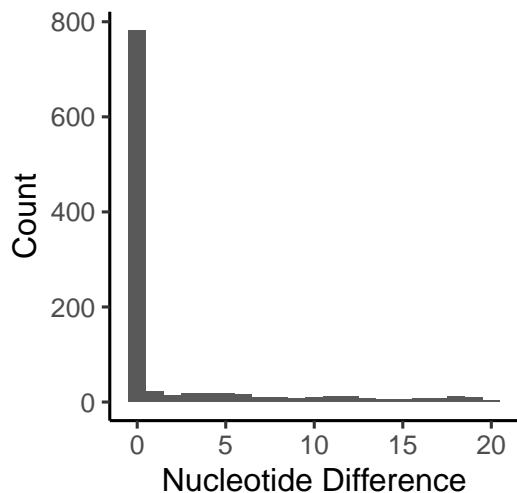
IGHV1-45*02

5 sequences assigned
5 (100%) exact matches, in which:
5 unique CDR3
3 unique J



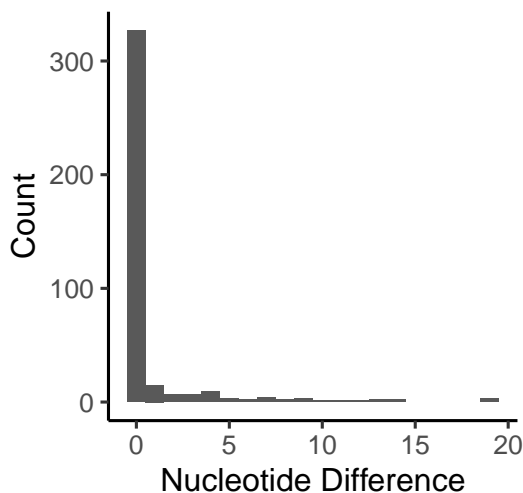
IGHV1-8*01

1034 sequences assigned
782 (75.6%) exact matches, in which:
781 unique CDR3
6 unique J



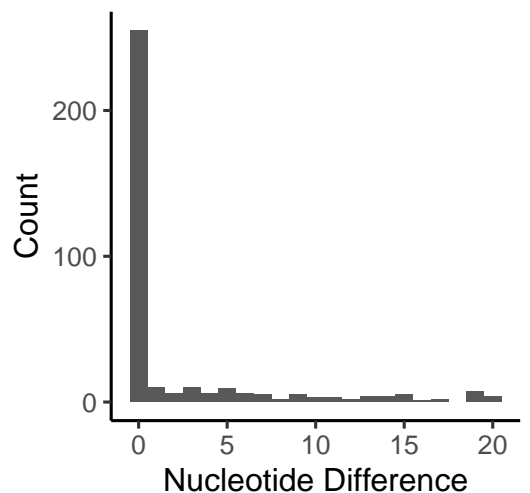
IGHV1-24*01

404 sequences assigned
327 (80.9%) exact matches, in which:
327 unique CDR3
6 unique J



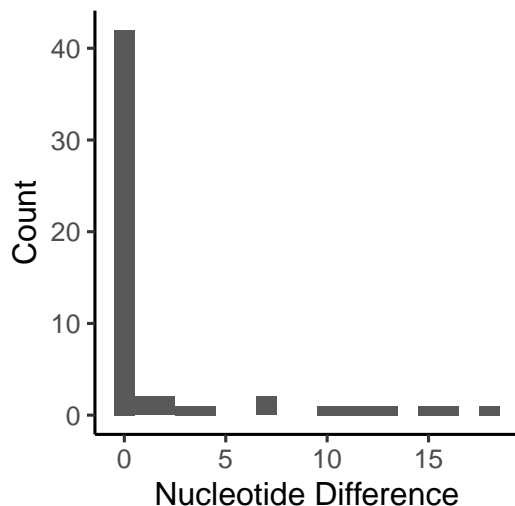
IGHV1-46*03

377 sequences assigned
255 (67.6%) exact matches, in which:
255 unique CDR3
6 unique J



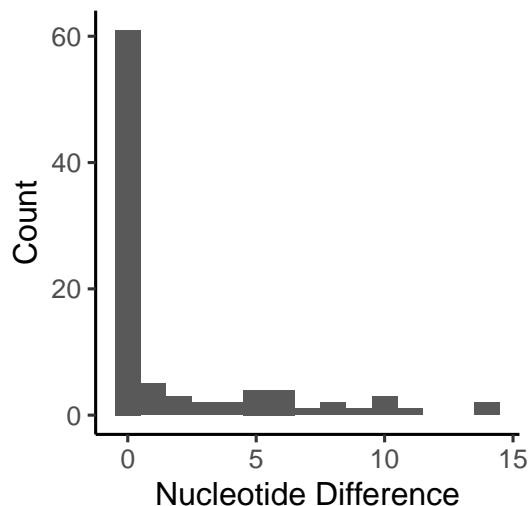
IGHV1-58*02

61 sequences assigned
42 (68.9%) exact matches, in which:
42 unique CDR3
5 unique J



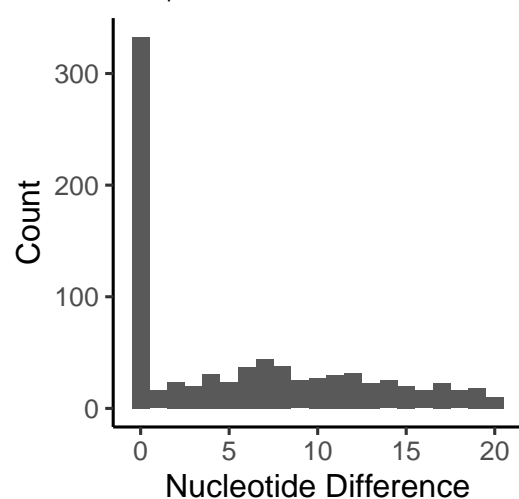
IGHV2-26*01

91 sequences assigned
61 (67%) exact matches, in which:
61 unique CDR3
4 unique J



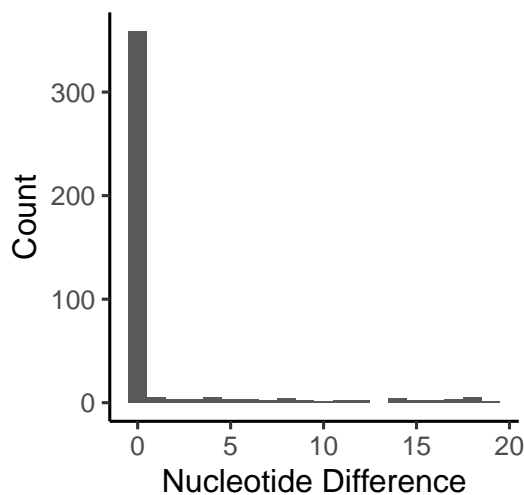
IGHV3-7*01

906 sequences assigned
333 (36.8%) exact matches, in which:
323 unique CDR3
6 unique J



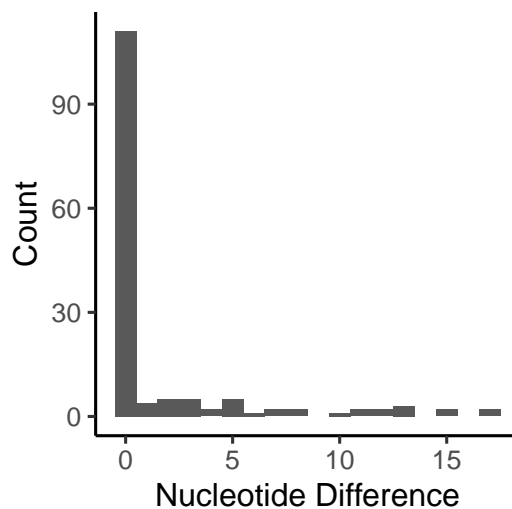
IGHV1-69*05

432 sequences assigned
359 (83.1%) exact matches, in which:
359 unique CDR3
6 unique J



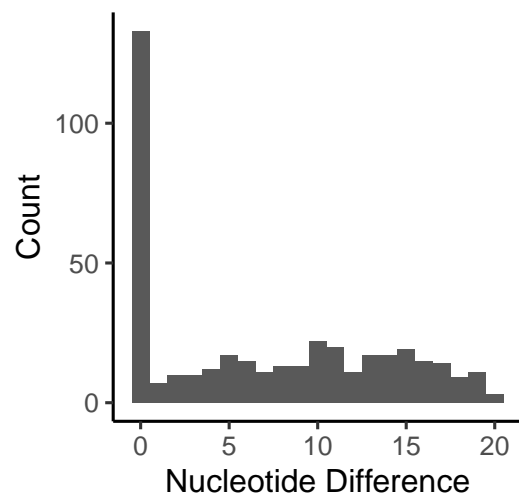
IGHV2-70*11_15

150 sequences assigned
111 (74%) exact matches, in which:
109 unique CDR3
5 unique J



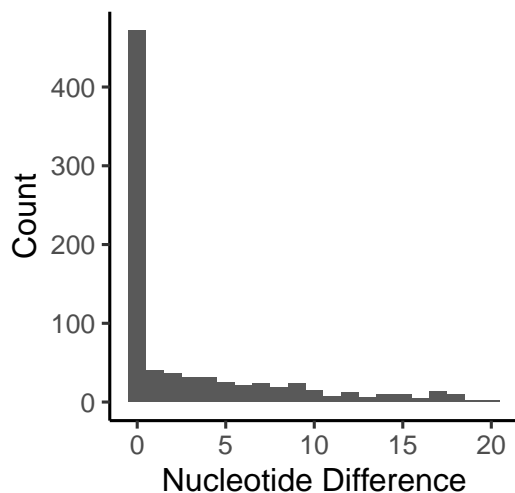
IGHV3-7*05

414 sequences assigned
133 (32.1%) exact matches, in which:
128 unique CDR3
5 unique J



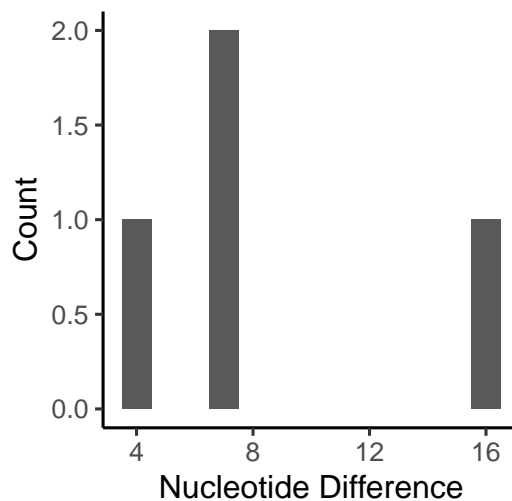
IGHV2-5*01

823 sequences assigned
472 (57.4%) exact matches, in which:
467 unique CDR3
6 unique J



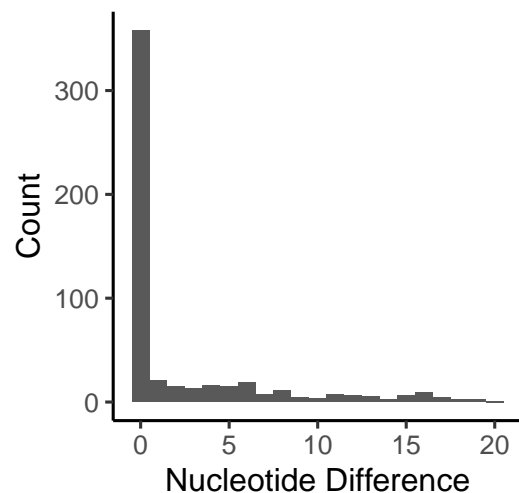
IGHV2-70D*04

5 sequences assigned
No exact matches.



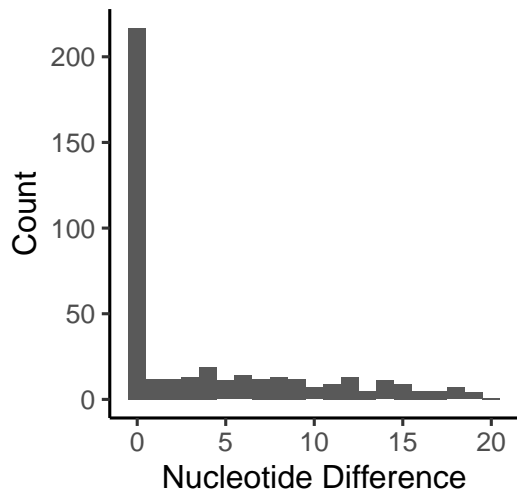
IGHV3-9*01

538 sequences assigned
358 (66.5%) exact matches, in which:
346 unique CDR3
6 unique J



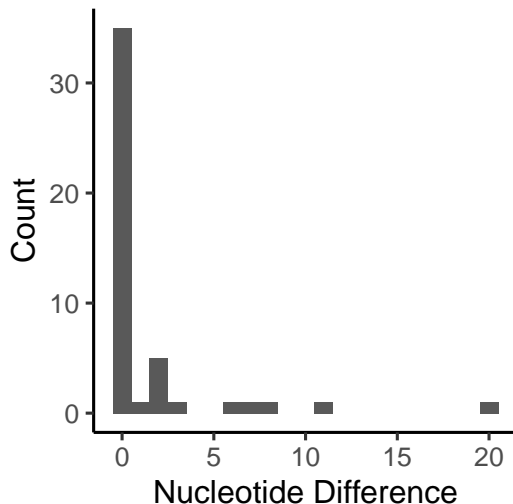
IGHV3-11*01

444 sequences assigned
217 (48.9%) exact matches, in which:
211 unique CDR3
6 unique J



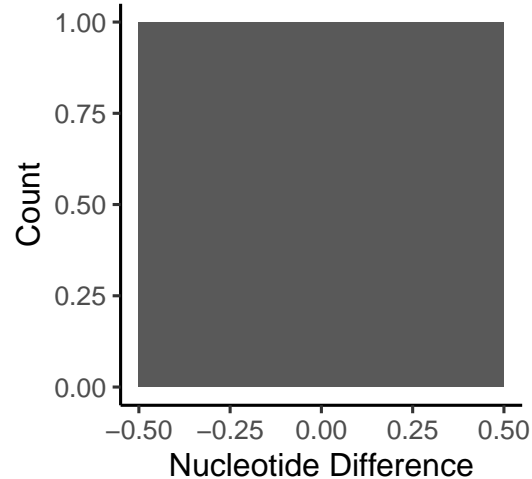
IGHV3-20*01_02

47 sequences assigned
35 (74.5%) exact matches, in which:
34 unique CDR3
5 unique J



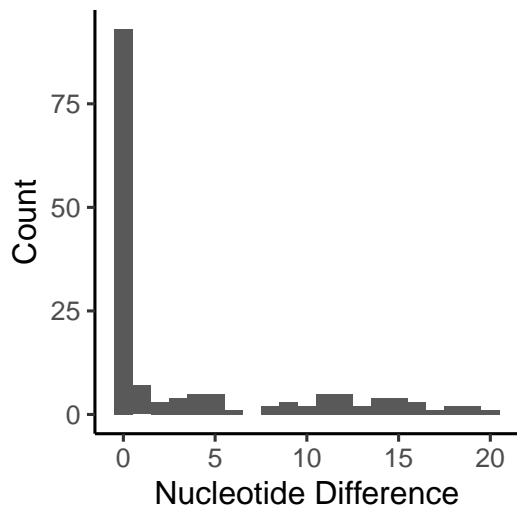
IGHV3-38-3*01

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



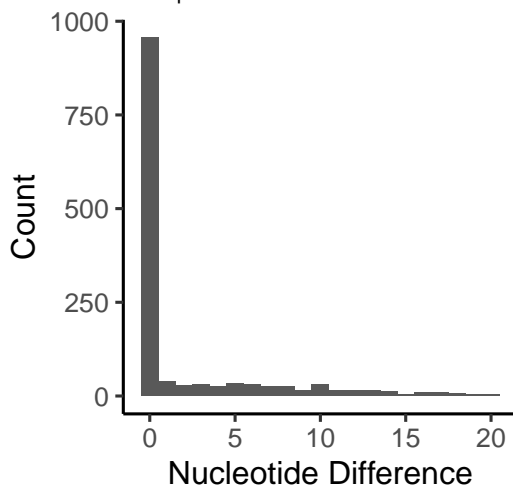
IGHV3-13*01

165 sequences assigned
93 (56.4%) exact matches, in which:
89 unique CDR3
5 unique J



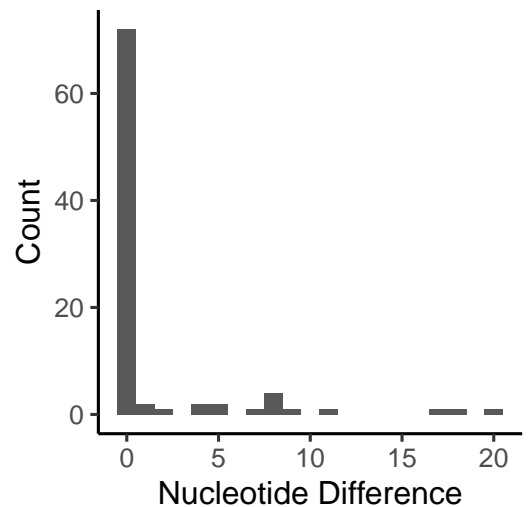
IGHV3-21*01_02

1402 sequences assigned
956 (68.2%) exact matches, in which:
905 unique CDR3
6 unique J



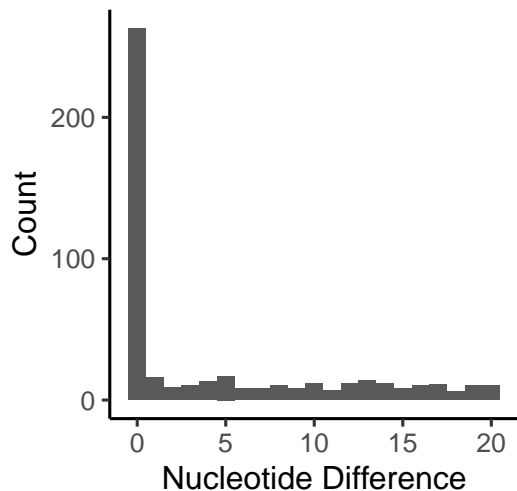
IGHV3-43*01

94 sequences assigned
72 (76.6%) exact matches, in which:
70 unique CDR3
6 unique J



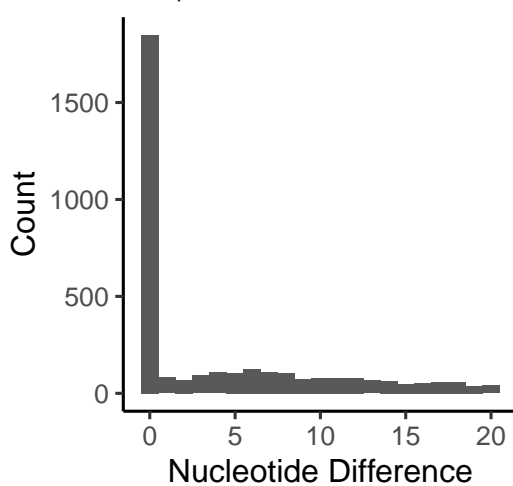
IGHV3-15*01_02

543 sequences assigned
263 (48.4%) exact matches, in which:
261 unique CDR3
6 unique J



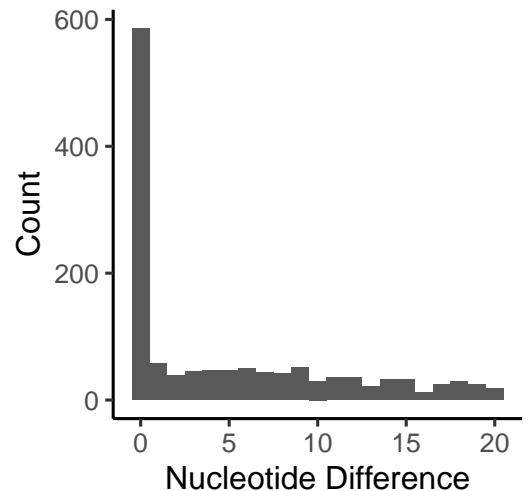
IGHV3-23*01_04

3664 sequences assigned
1848 (50.4%) exact matches, in which:
1772 unique CDR3
6 unique J



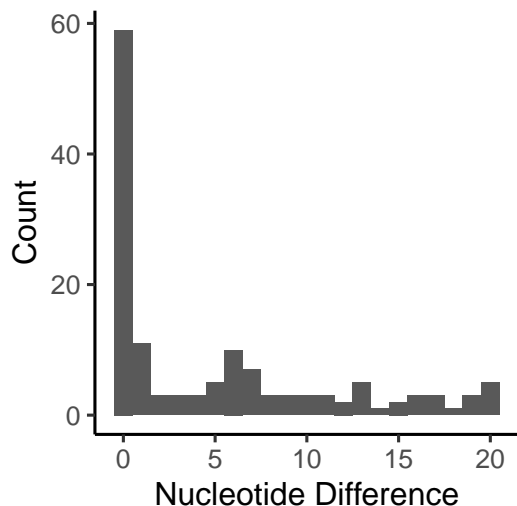
IGHV3-48*01

1441 sequences assigned
586 (40.7%) exact matches, in which:
565 unique CDR3
6 unique J



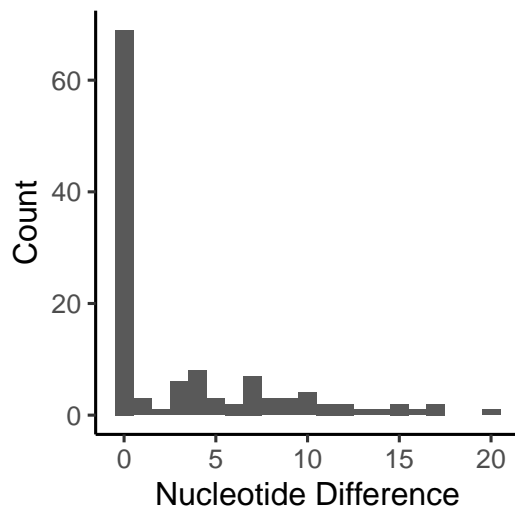
IGHV3-49*03_05

147 sequences assigned
59 (40.1%) exact matches, in which:
59 unique CDR3
5 unique J



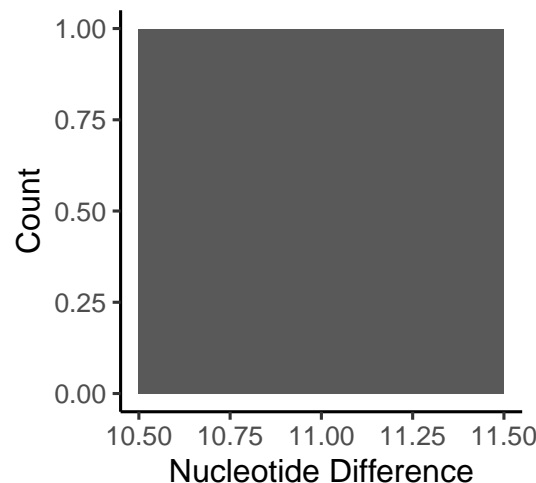
IGHV3-64*01

122 sequences assigned
69 (56.6%) exact matches, in which:
66 unique CDR3
5 unique J



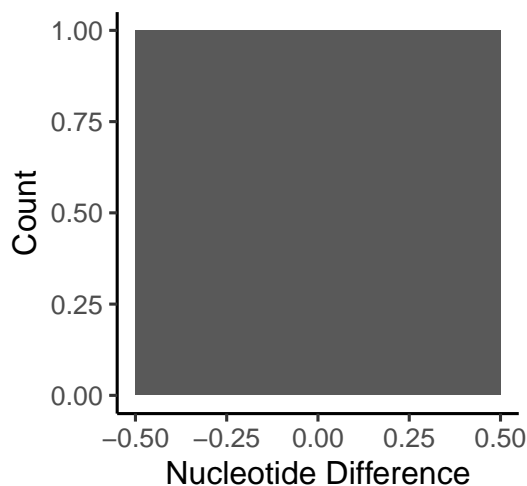
IGHV3-69-1*02

1 sequences assigned
No exact matches.



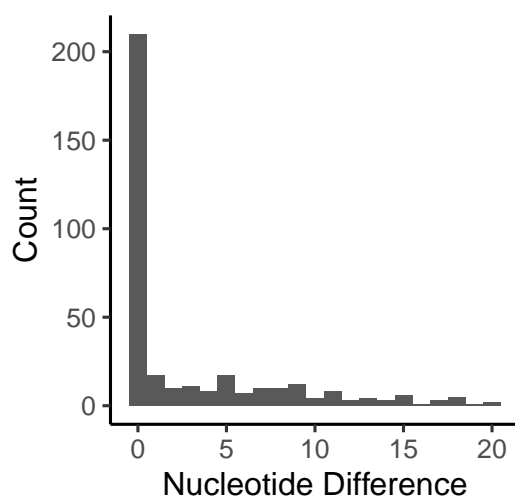
IGHV3-52*02

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



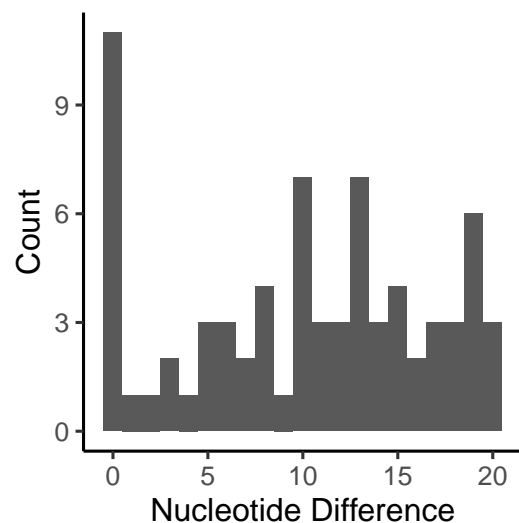
IGHV3-66*02

371 sequences assigned
210 (56.6%) exact matches, in which:
200 unique CDR3
6 unique J



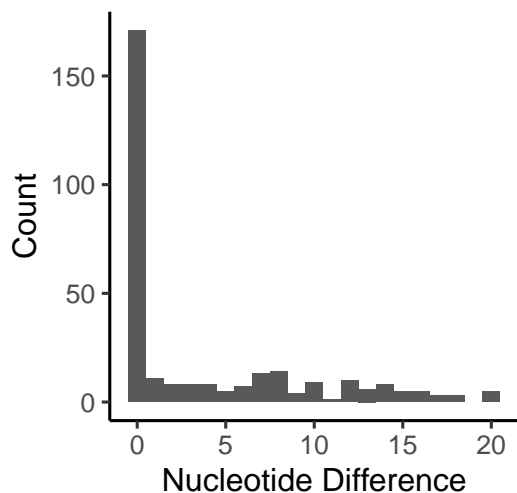
IGHV3-72*01

77 sequences assigned
11 (14.3%) exact matches, in which:
11 unique CDR3
5 unique J



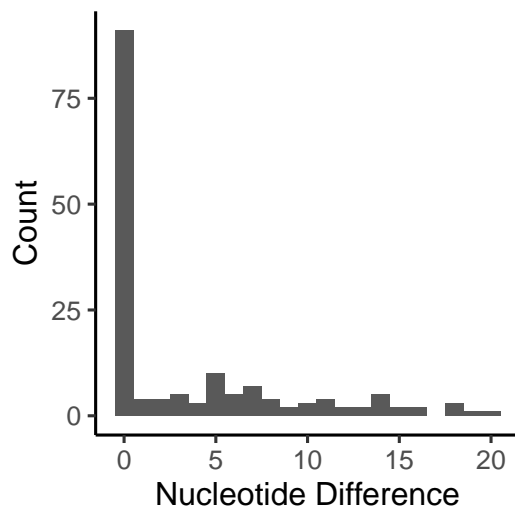
IGHV3-53*01_02

322 sequences assigned
171 (53.1%) exact matches, in which:
163 unique CDR3
6 unique J



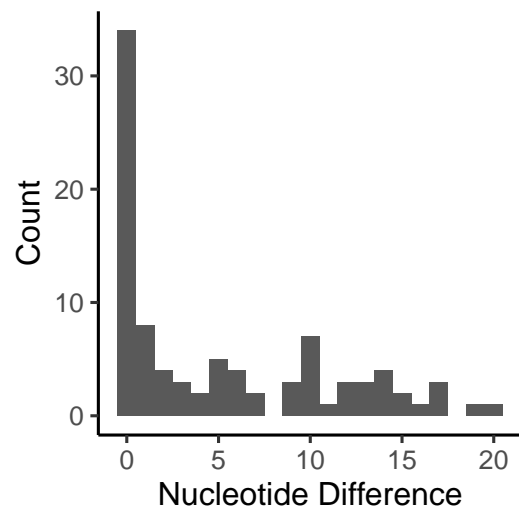
IGHV3-66*01_A193G

182 sequences assigned
91 (50%) exact matches, in which:
86 unique CDR3
6 unique J



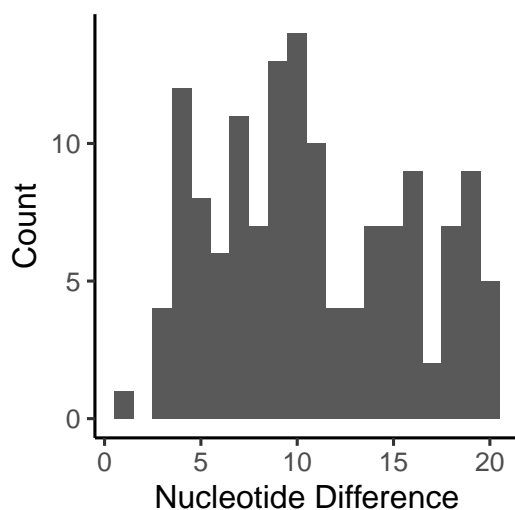
IGHV3-73*01_02

94 sequences assigned
34 (36.2%) exact matches, in which:
34 unique CDR3
5 unique J



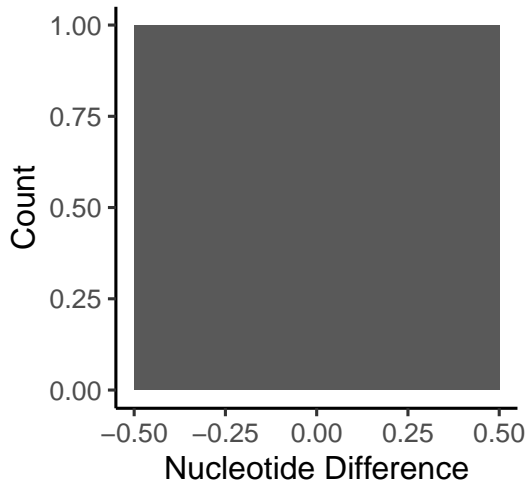
IGHV3-74*03

164 sequences assigned
No exact matches.



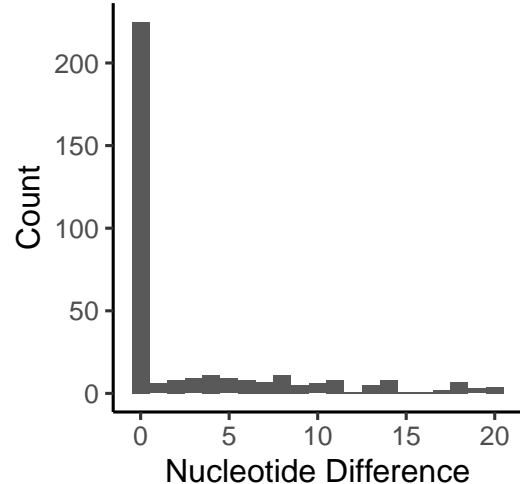
IGHV3-64D*06

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



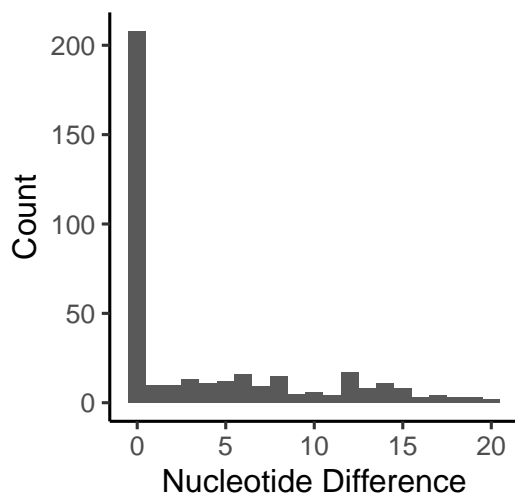
IGHV4-4*02_03

390 sequences assigned
225 (57.7%) exact matches, in which:
218 unique CDR3
6 unique J



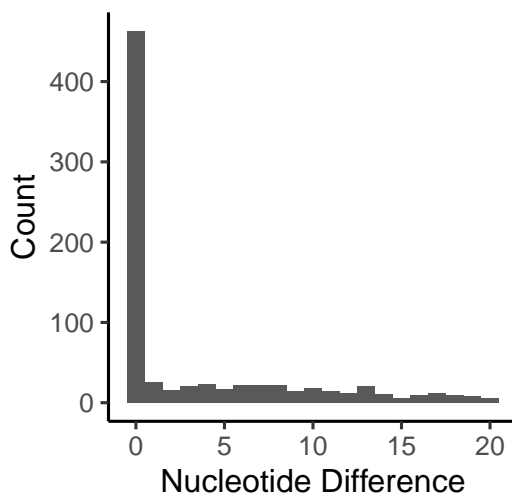
IGHV3-74*01_02

398 sequences assigned
208 (52.3%) exact matches, in which:
201 unique CDR3
6 unique J



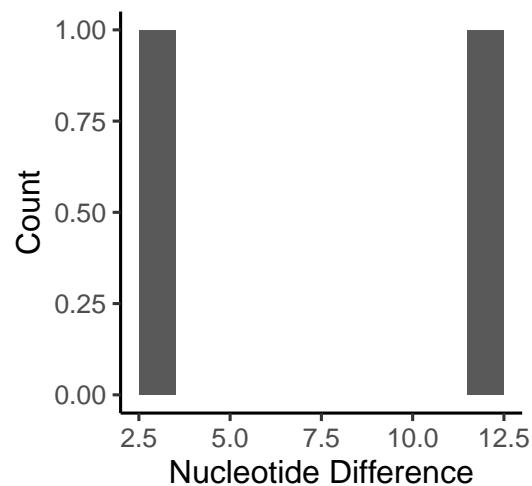
IGHV4-4*07

827 sequences assigned
463 (56%) exact matches, in which:
446 unique CDR3
5 unique J



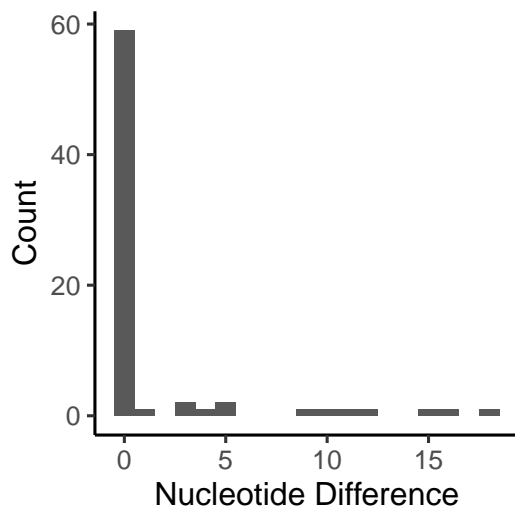
IGHV4-28*01_07

3 sequences assigned
No exact matches.



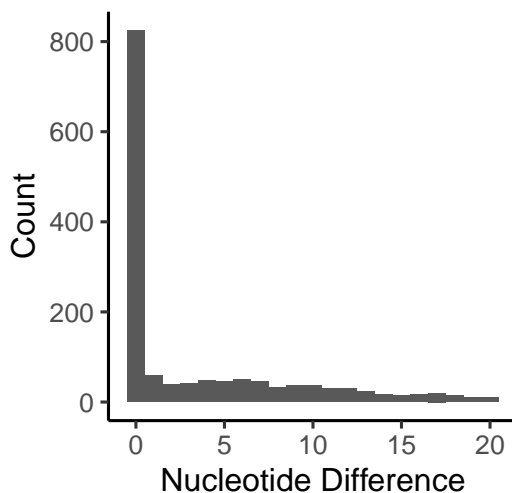
IGHV3-43D*04

77 sequences assigned
59 (76.6%) exact matches, in which:
58 unique CDR3
4 unique J



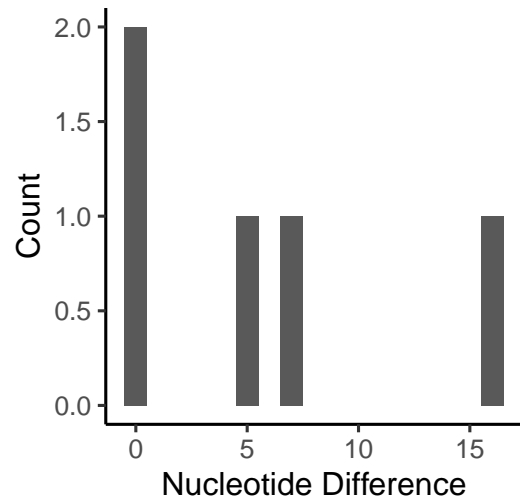
IGHV4-4*09

1558 sequences assigned
825 (53%) exact matches, in which:
803 unique CDR3
6 unique J



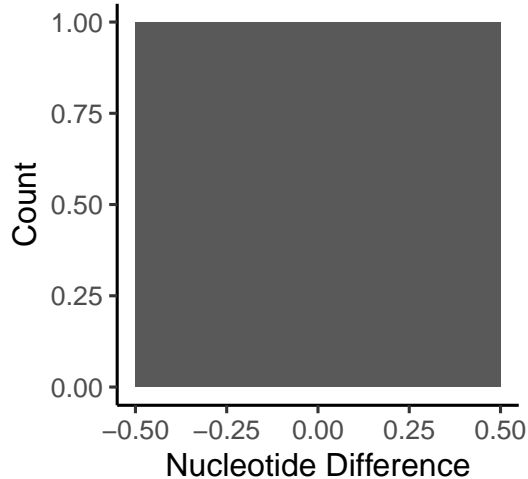
IGHV4-28*02_05

5 sequences assigned
2 (40%) exact matches, in which:
2 unique CDR3
2 unique J



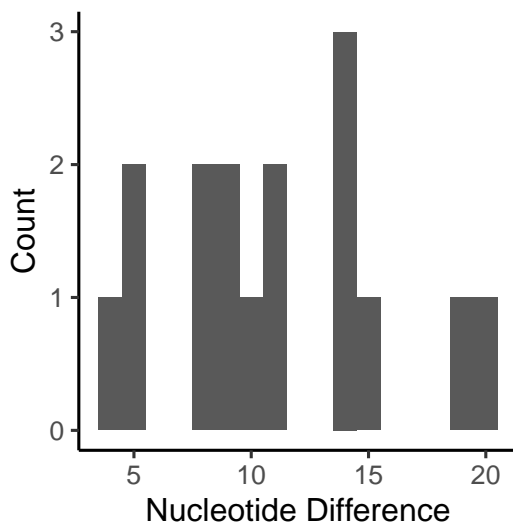
IGHV4-30-2*01

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



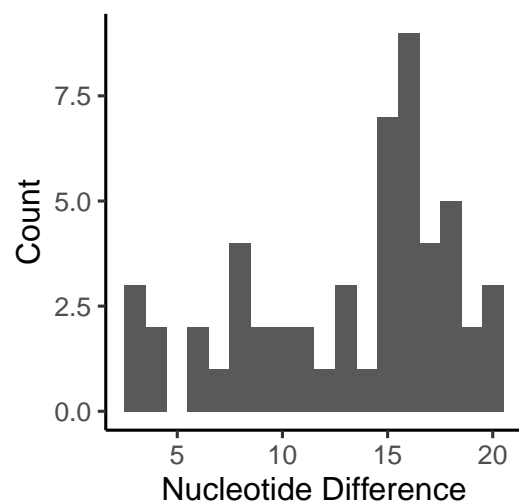
IGHV4-38-2*02

23 sequences assigned
No exact matches.



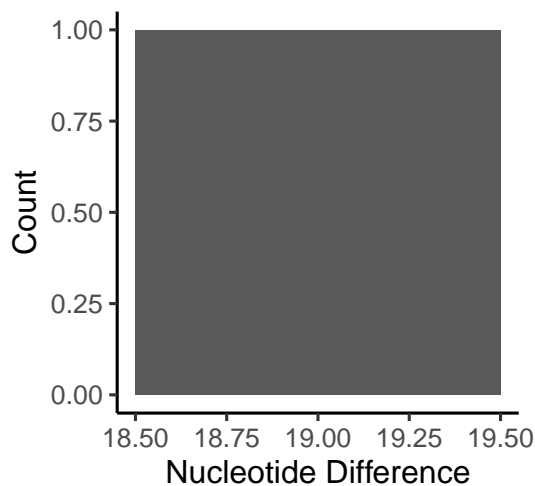
IGHV4-59*08

96 sequences assigned
No exact matches.



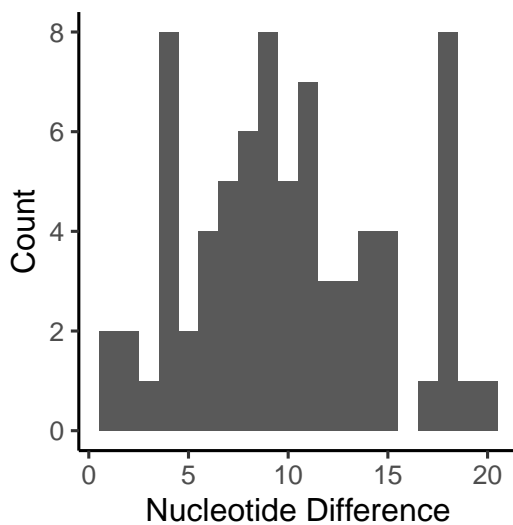
IGHV4-31*02

1 sequences assigned
No exact matches.



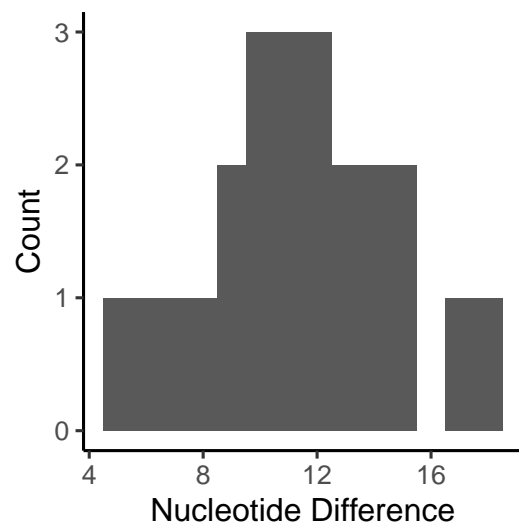
IGHV4-39*02

98 sequences assigned
No exact matches.



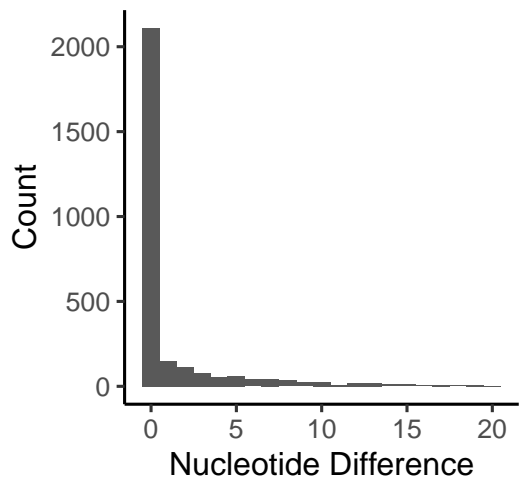
IGHV4-59*11

38 sequences assigned
No exact matches.



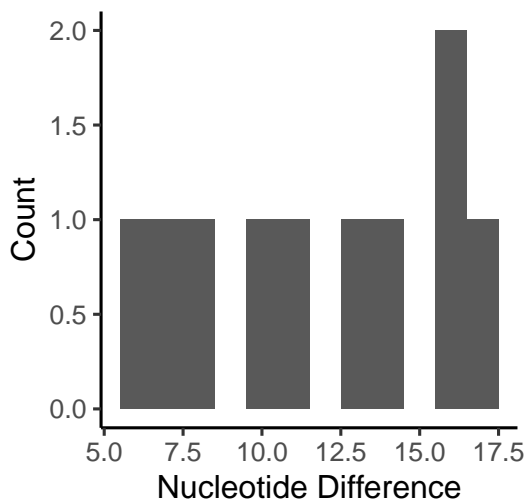
IGHV4-34*01_02

2863 sequences assigned
2110 (73.7%) exact matches, in which:
2011 unique CDR3
6 unique J



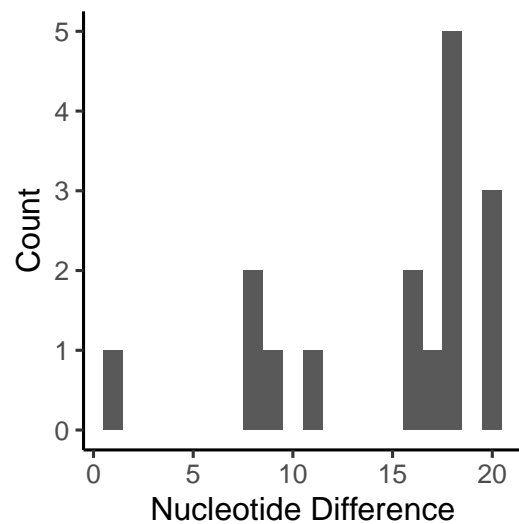
IGHV4-59*02

18 sequences assigned
No exact matches.



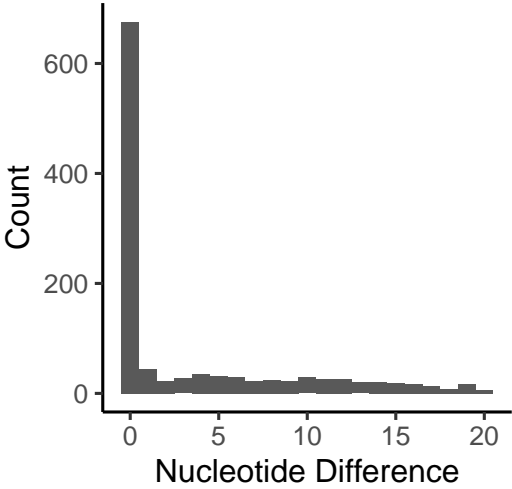
IGHV4-59*12

21 sequences assigned
No exact matches.



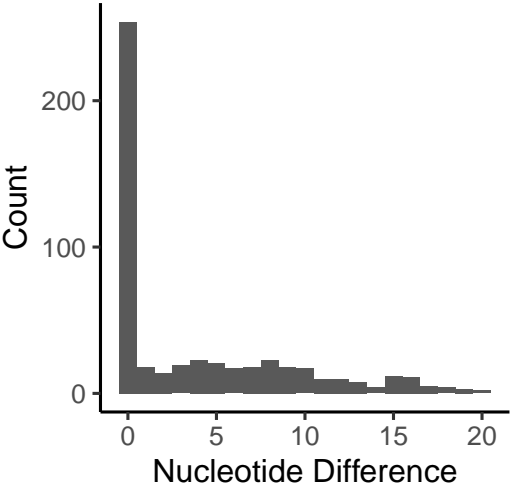
IGHV4–61*02

1221 sequences assigned
676 (55.4%) exact matches, in which:
659 unique CDR3
6 unique J



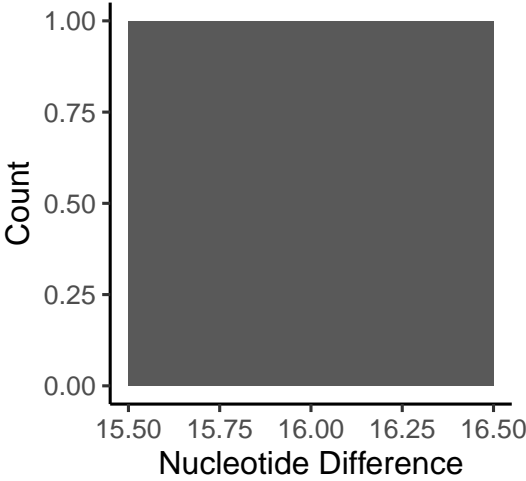
IGHV6–1*01_02

523 sequences assigned
254 (48.6%) exact matches, in which:
253 unique CDR3
6 unique J



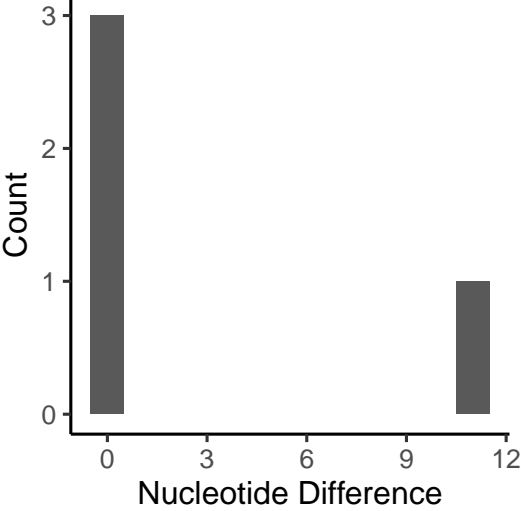
IGHV4/OR15–8*02

1 sequences assigned
No exact matches.



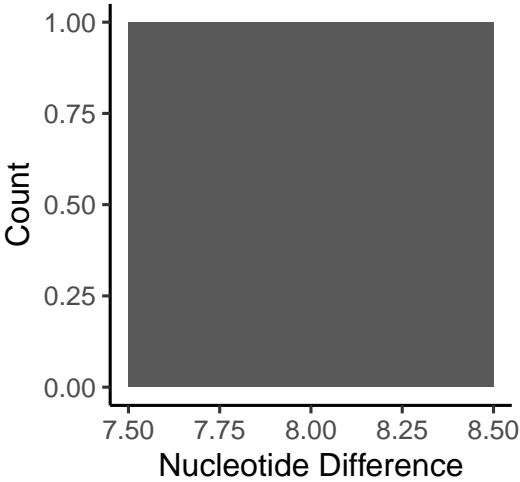
IGHV7–4–1*01

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

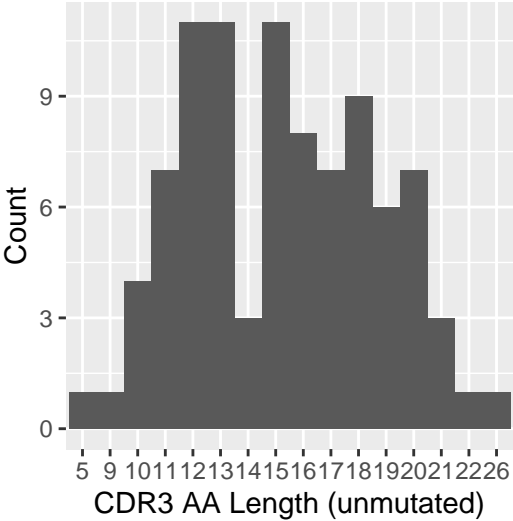


IGHV5–51*06

1 sequences assigned
No exact matches.



IGHV3-66*01_A193G





[illegible]