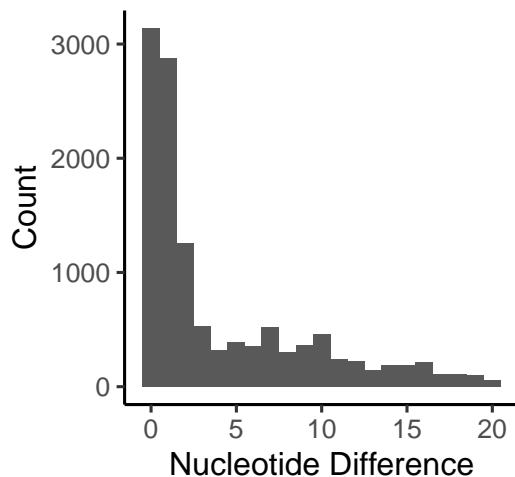


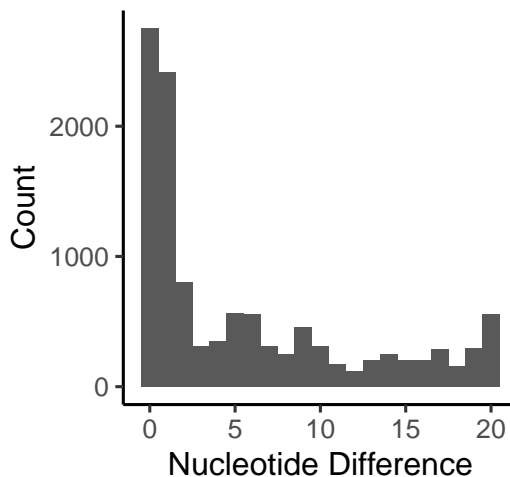
IGHV1-2*02

13780 sequences assigned
3137 (22.8%) exact matches, in which:
2712 unique CDR3
6 unique J



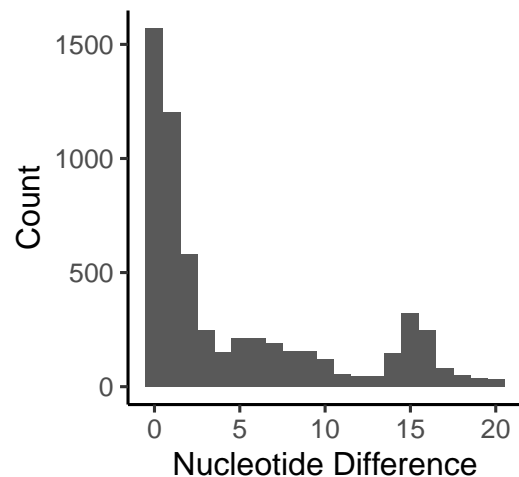
IGHV1-18*01

13213 sequences assigned
2751 (20.8%) exact matches, in which:
2381 unique CDR3
6 unique J



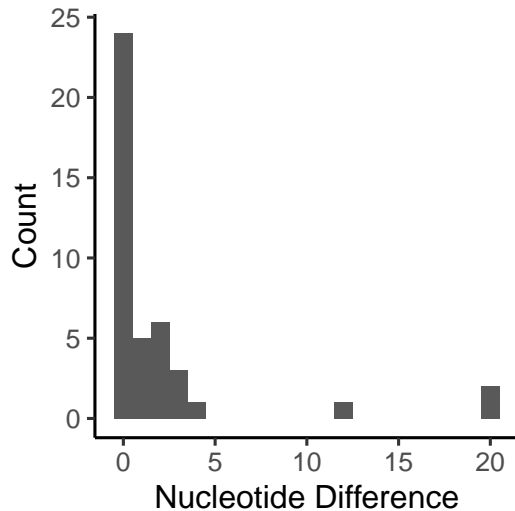
IGHV1-46*01

6059 sequences assigned
1570 (25.9%) exact matches, in which:
1408 unique CDR3
6 unique J



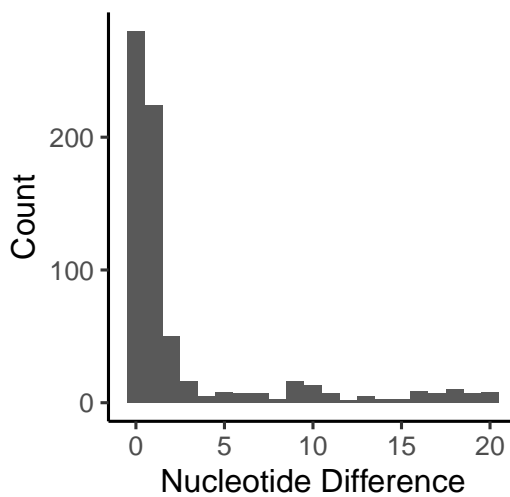
IGHV1-3*02

42 sequences assigned
24 (57.1%) exact matches, in which:
24 unique CDR3
4 unique J



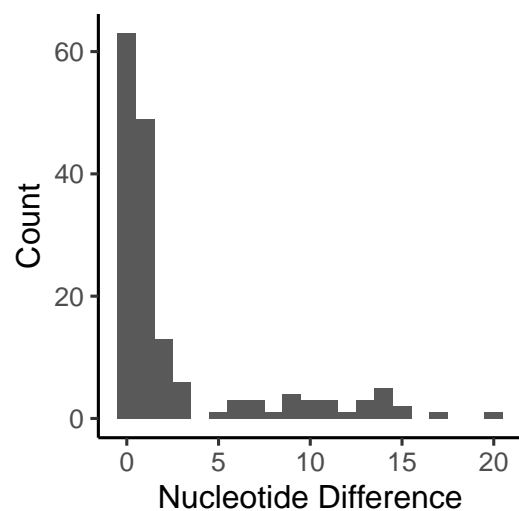
IGHV1-24*01

736 sequences assigned
280 (38%) exact matches, in which:
245 unique CDR3
6 unique J



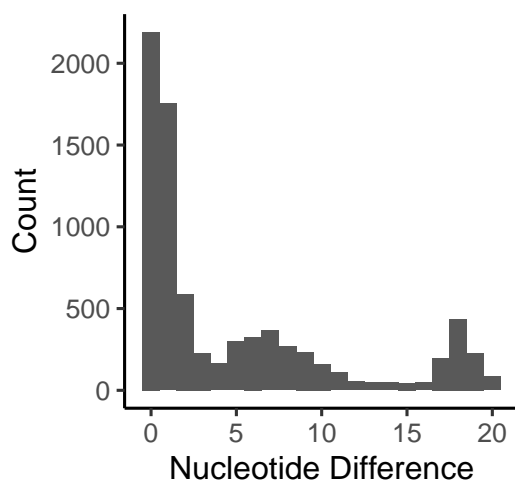
IGHV1-58*02

166 sequences assigned
63 (38%) exact matches, in which:
56 unique CDR3
5 unique J



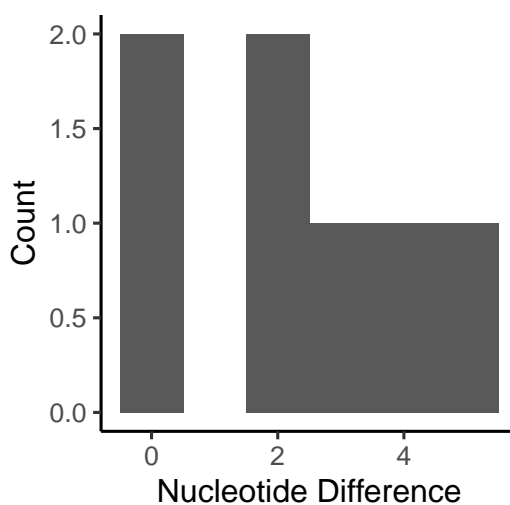
IGHV1-8*01

8403 sequences assigned
2191 (26.1%) exact matches, in which:
1942 unique CDR3
6 unique J



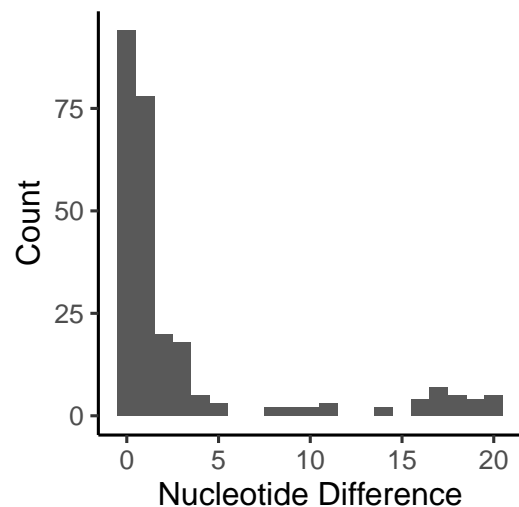
IGHV1-45*02

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



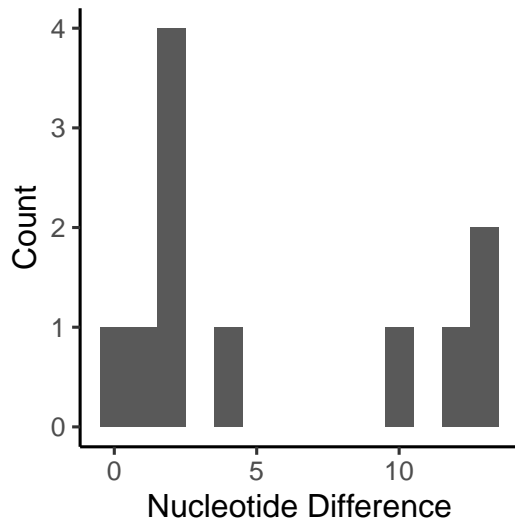
IGHV1-58*01_03

258 sequences assigned
94 (36.4%) exact matches, in which:
85 unique CDR3
5 unique J



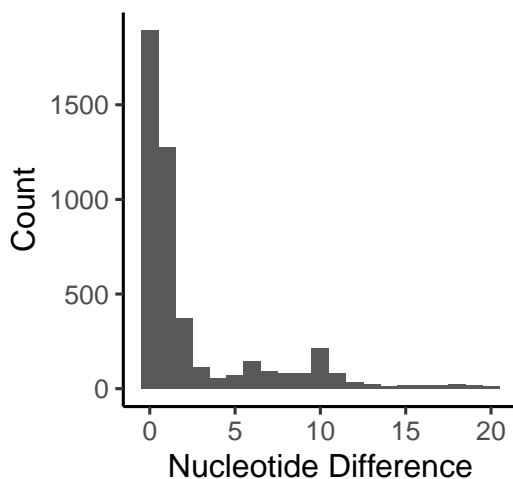
IGHV1-68*01

11 sequences assigned
1 (9.1%) exact matches, in which:
1 unique CDR3
1 unique J



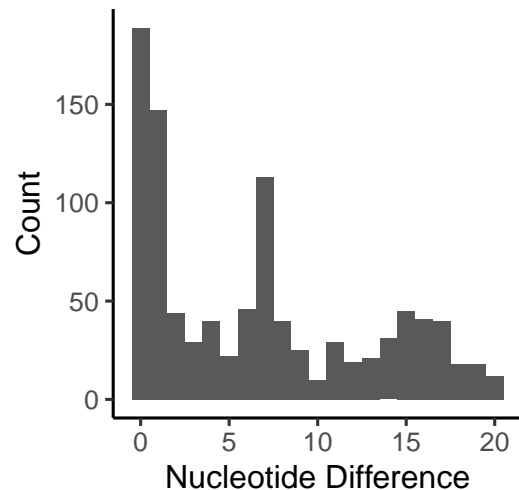
IGHV1-69*01_12_13

4880 sequences assigned
1893 (38.8%) exact matches, in which:
1744 unique CDR3
6 unique J



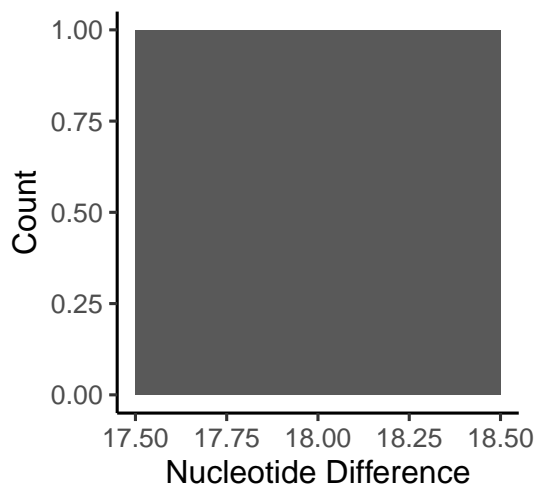
IGHV2-5*02

1082 sequences assigned
189 (17.5%) exact matches, in which:
166 unique CDR3
6 unique J



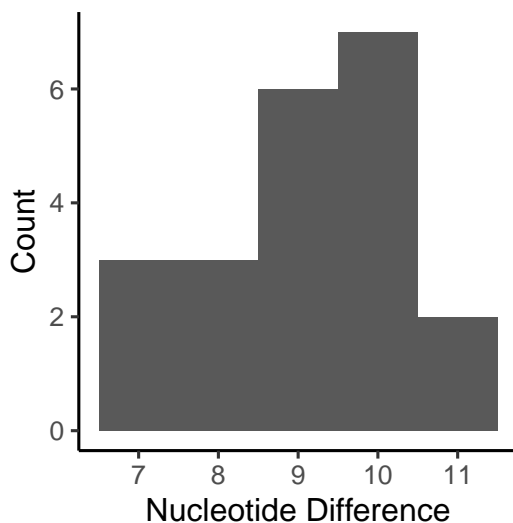
IGHV1-69-2*01

1 sequences assigned
No exact matches.



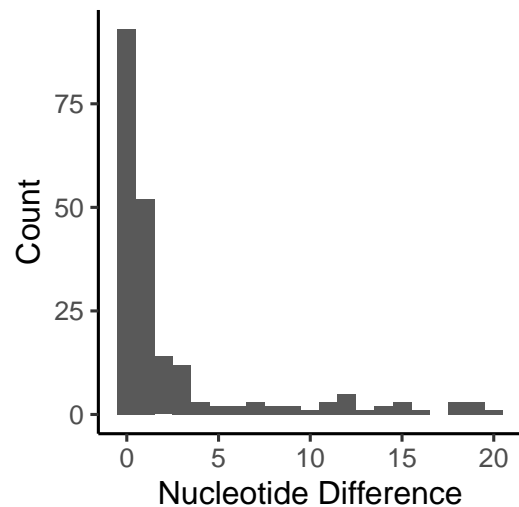
IGHV1-NL1*01

21 sequences assigned
No exact matches.



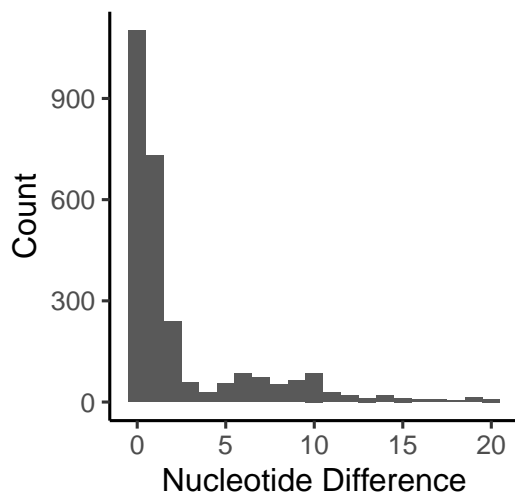
IGHV2-26*01

208 sequences assigned
93 (44.7%) exact matches, in which:
84 unique CDR3
5 unique J



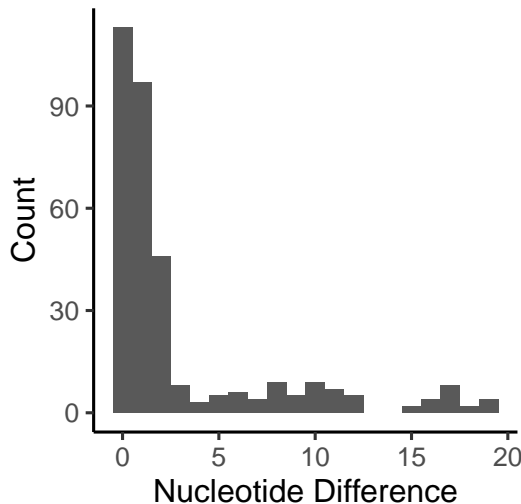
IGHV1-69*10

2775 sequences assigned
1102 (39.7%) exact matches, in which:
1014 unique CDR3
6 unique J



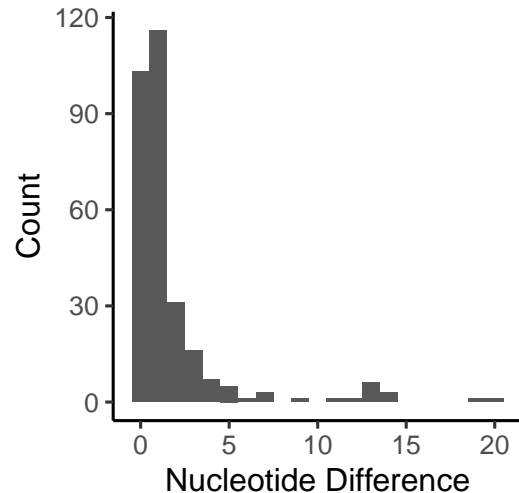
IGHV2-5*01

376 sequences assigned
113 (30.1%) exact matches, in which:
104 unique CDR3
6 unique J



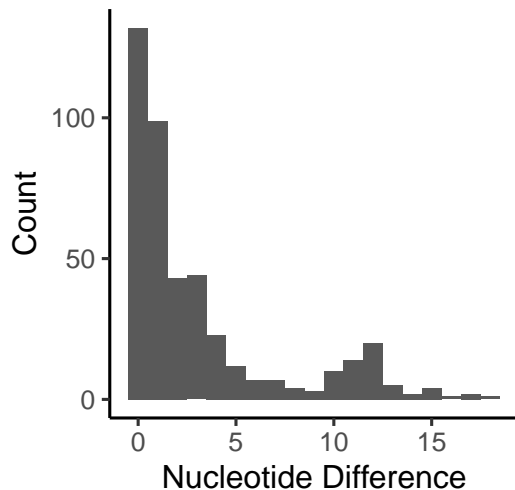
IGHV2-70*01

305 sequences assigned
103 (33.8%) exact matches, in which:
89 unique CDR3
5 unique J



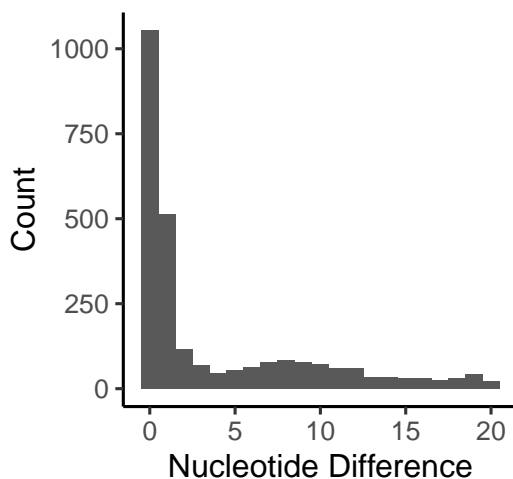
IGHV2–70*11_15

438 sequences assigned
132 (30.1%) exact matches, in which:
115 unique CDR3
5 unique J



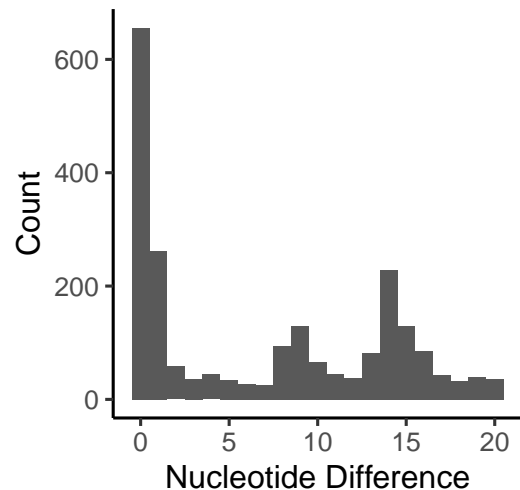
IGHV3–11*01

2716 sequences assigned
1054 (38.8%) exact matches, in which:
742 unique CDR3
6 unique J



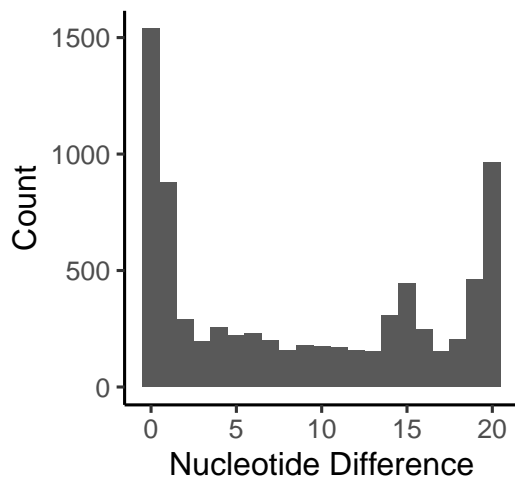
IGHV3–15*01_02

2556 sequences assigned
656 (25.7%) exact matches, in which:
454 unique CDR3
6 unique J



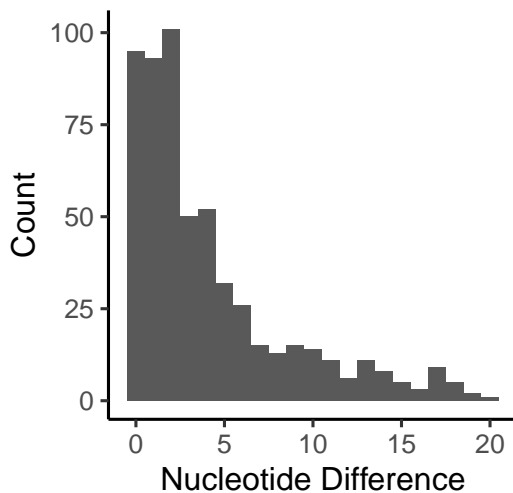
IGHV3–7*01

9944 sequences assigned
1538 (15.5%) exact matches, in which:
1068 unique CDR3
6 unique J



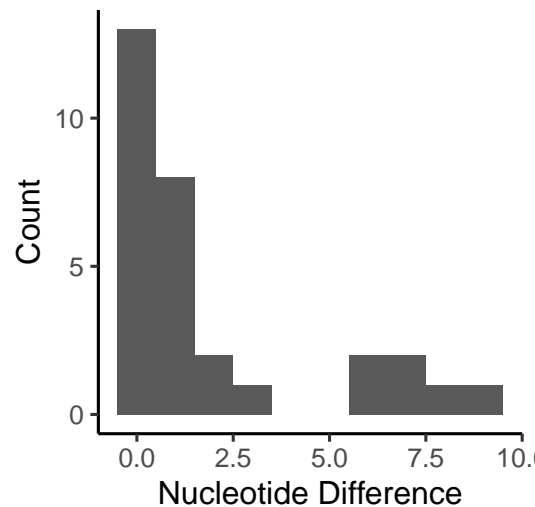
IGHV3–11*04

581 sequences assigned
95 (16.4%) exact matches, in which:
91 unique CDR3
5 unique J



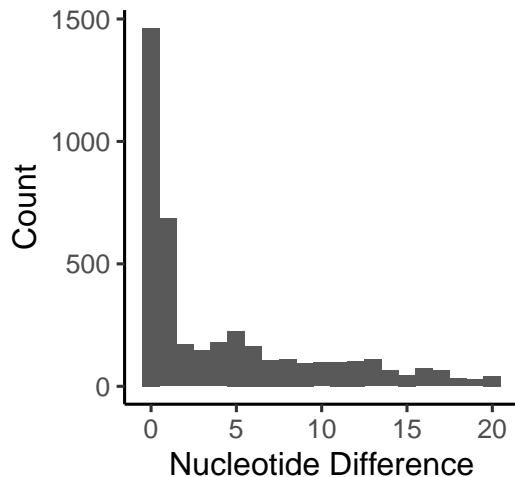
IGHV3–19*01

30 sequences assigned
13 (43.3%) exact matches, in which:
10 unique CDR3
2 unique J



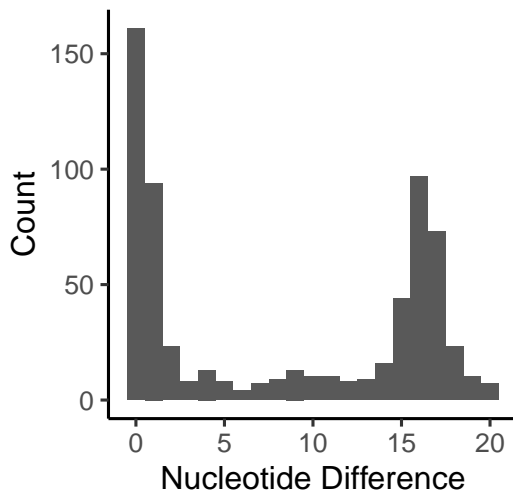
IGHV3–9*01

4552 sequences assigned
1463 (32.1%) exact matches, in which:
983 unique CDR3
6 unique J



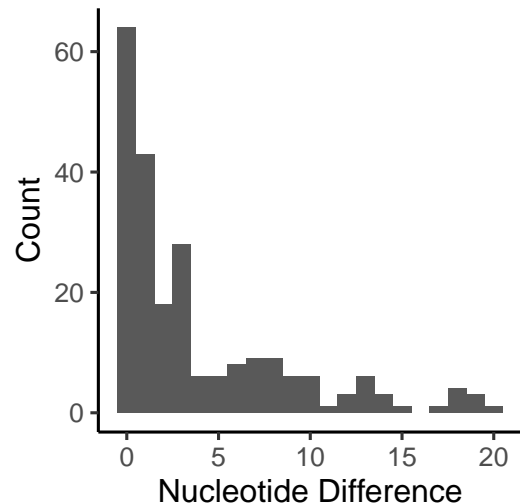
IGHV3–13*01

764 sequences assigned
161 (21.1%) exact matches, in which:
105 unique CDR3
5 unique J



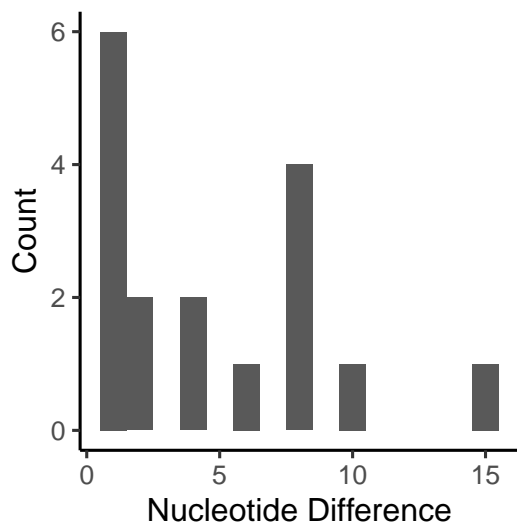
IGHV3–20*01_02

226 sequences assigned
64 (28.3%) exact matches, in which:
41 unique CDR3
4 unique J



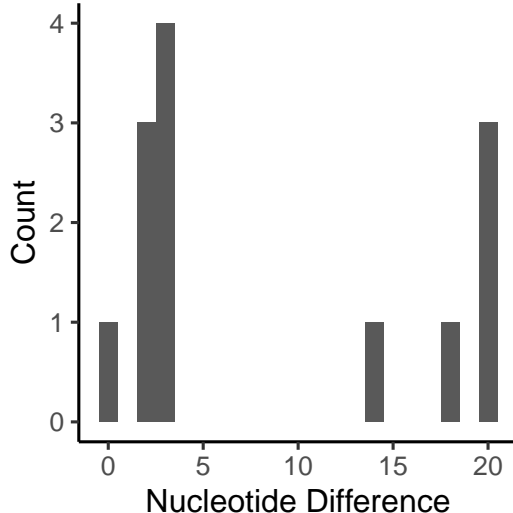
IGHV3-20*03_04

33 sequences assigned
No exact matches.



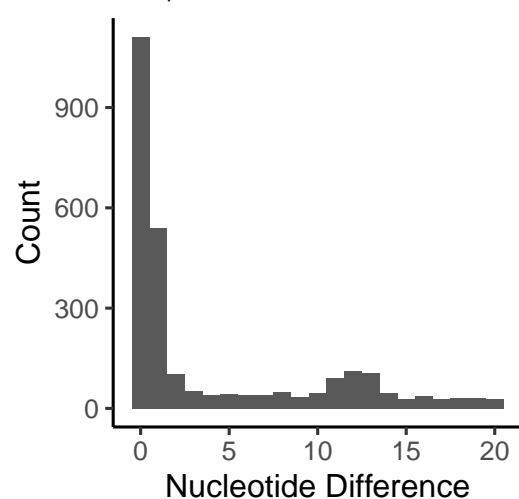
IGHV3-30-3*01

29 sequences assigned
1 (3.4%) exact matches, in which:
1 unique CDR3
1 unique J



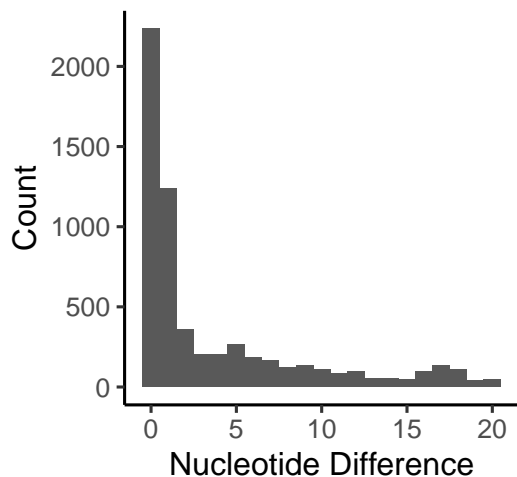
IGHV3-30*18

3367 sequences assigned
1112 (33%) exact matches, in which:
748 unique CDR3
6 unique J



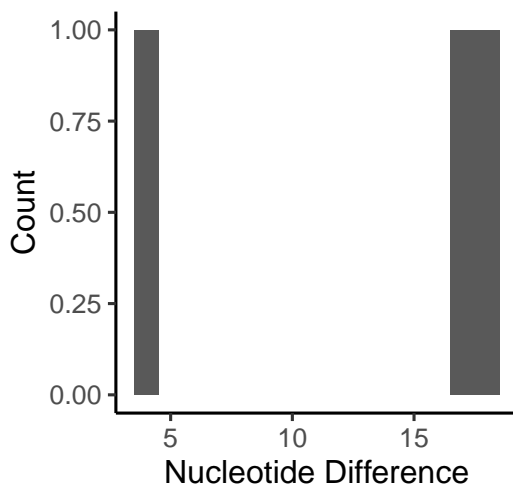
IGHV3-21*01_02

6373 sequences assigned
2235 (35.1%) exact matches, in which:
1487 unique CDR3
6 unique J



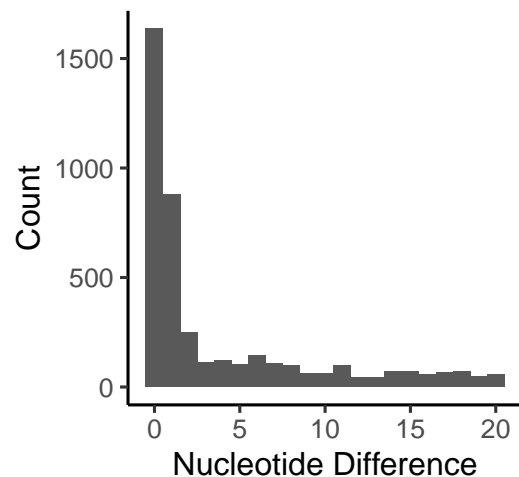
IGHV3-30-3*02

3 sequences assigned
No exact matches.



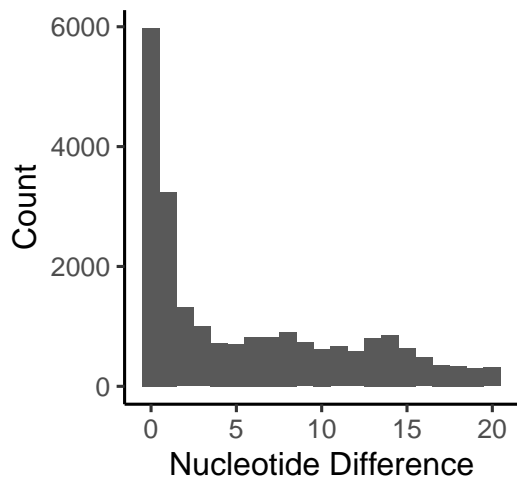
IGHV3-33*01

4609 sequences assigned
1636 (35.5%) exact matches, in which:
1178 unique CDR3
6 unique J



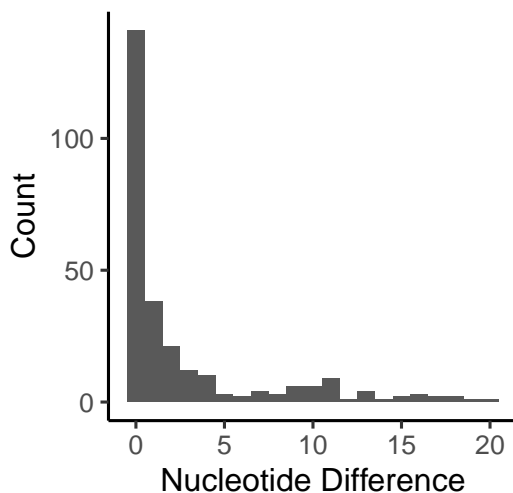
IGHV3-23*01_04

27850 sequences assigned
5978 (21.5%) exact matches, in which:
3733 unique CDR3
6 unique J



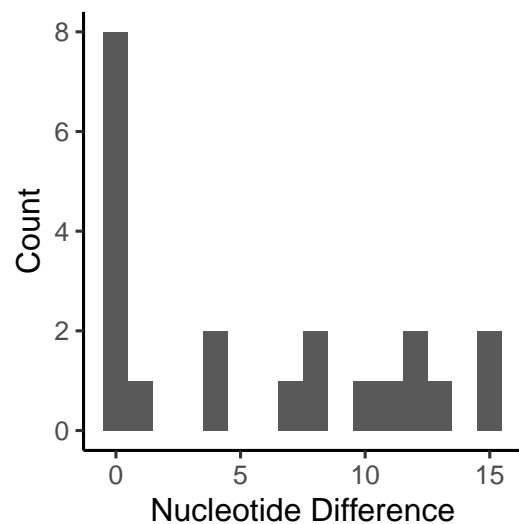
IGHV3-30*03

383 sequences assigned
141 (36.8%) exact matches, in which:
131 unique CDR3
5 unique J



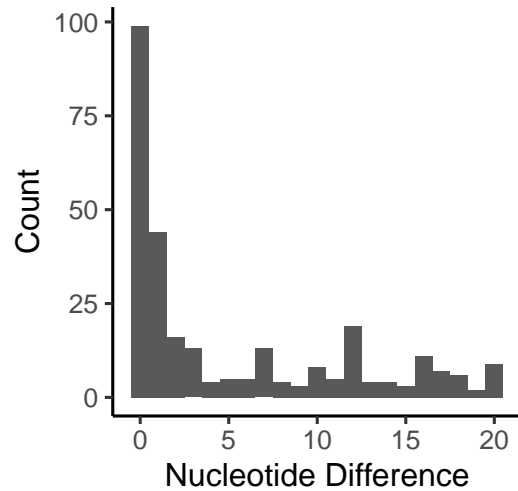
IGHV3-35*01

21 sequences assigned
8 (38.1%) exact matches, in which:
7 unique CDR3
2 unique J



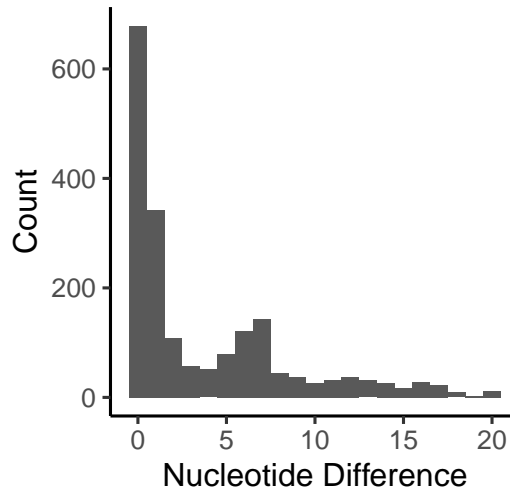
IGHV3-43*01

319 sequences assigned
99 (31%) exact matches, in which:
69 unique CDR3
4 unique J



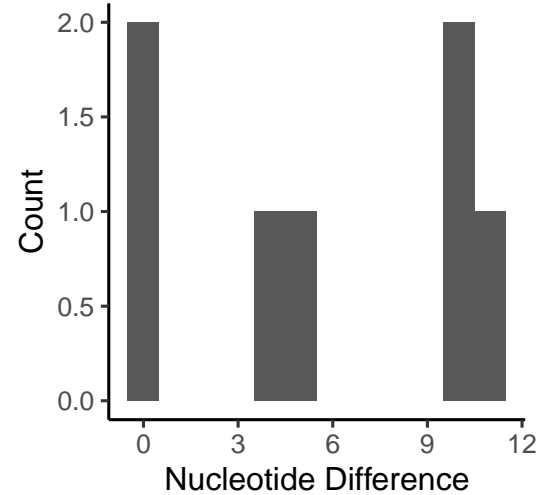
IGHV3-48*02

2842 sequences assigned
679 (23.9%) exact matches, in which:
461 unique CDR3
6 unique J



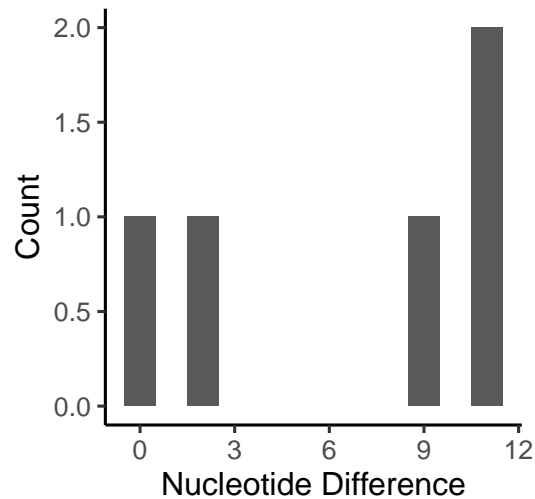
IGHV3-52*01_03

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



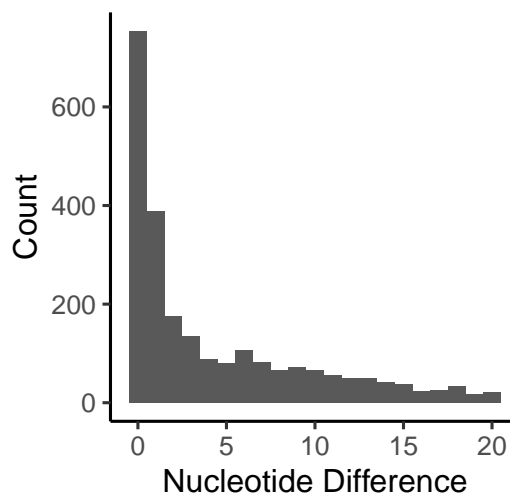
IGHV3-47*02

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



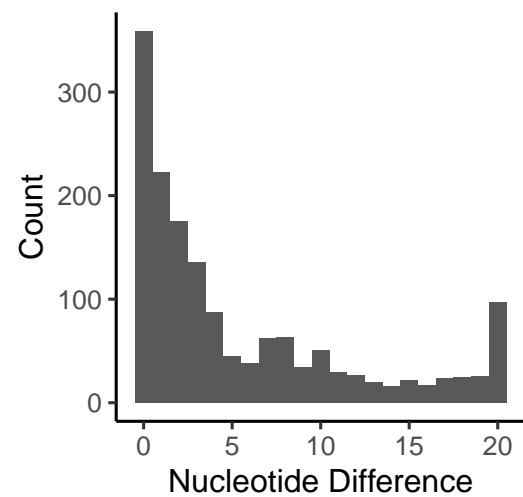
IGHV3-48*03

2613 sequences assigned
754 (28.9%) exact matches, in which:
507 unique CDR3
5 unique J



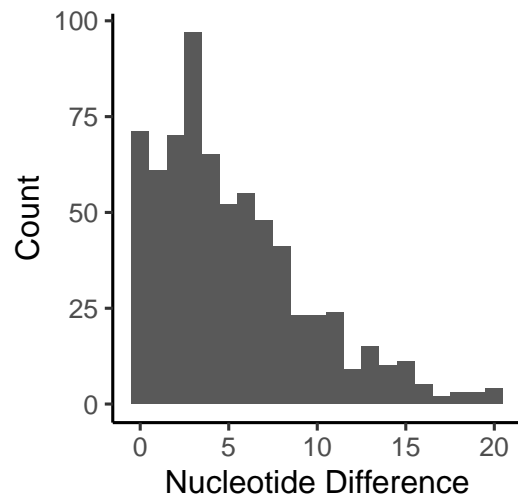
IGHV3-53*01_02

2123 sequences assigned
359 (16.9%) exact matches, in which:
249 unique CDR3
6 unique J



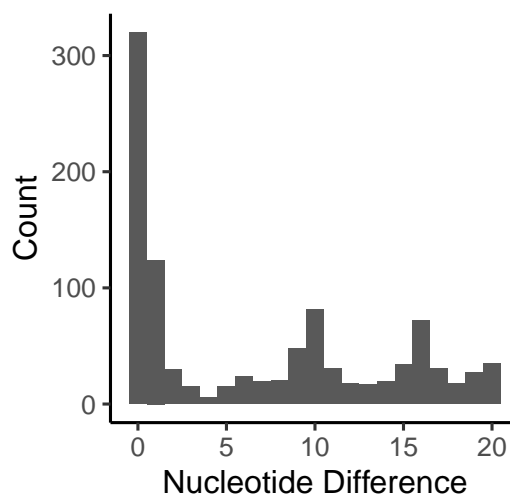
IGHV3-48*01

739 sequences assigned
71 (9.6%) exact matches, in which:
69 unique CDR3
5 unique J



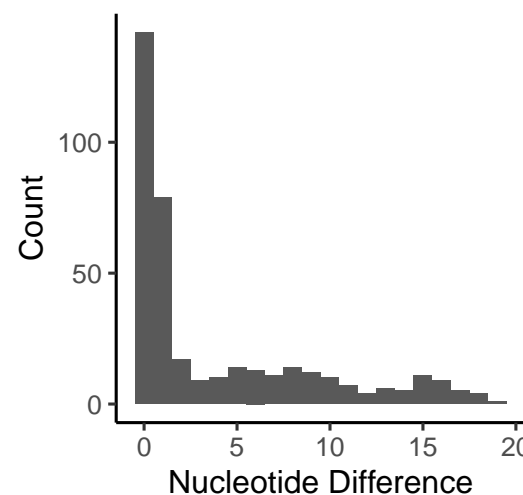
IGHV3-49*03_05

1168 sequences assigned
320 (27.4%) exact matches, in which:
212 unique CDR3
6 unique J



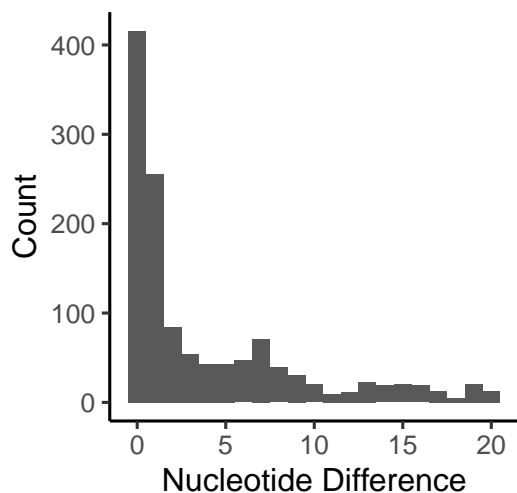
IGHV3-64*01

431 sequences assigned
142 (32.9%) exact matches, in which:
99 unique CDR3
6 unique J



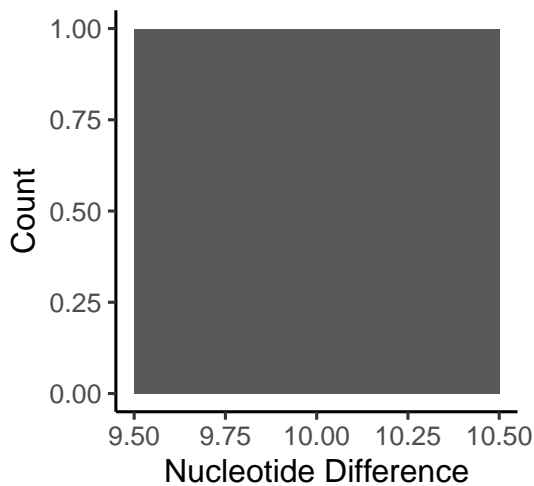
IGHV3-66*01

1425 sequences assigned
416 (29.2%) exact matches, in which:
295 unique CDR3
6 unique J



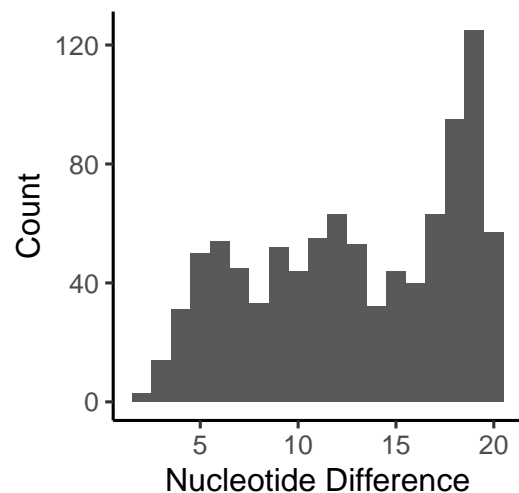
IGHV3-71*01_04

1 sequences assigned
No exact matches.



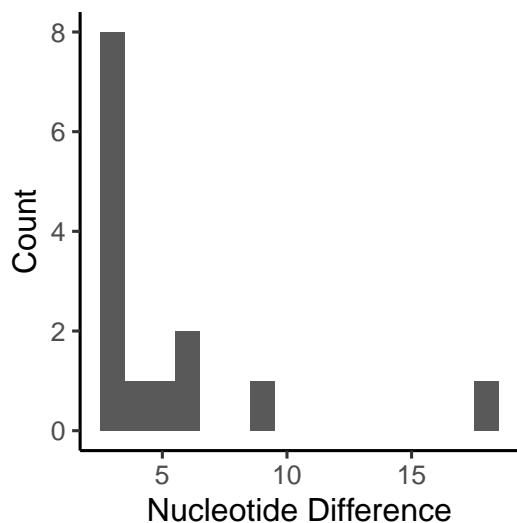
IGHV3-74*03

11887 sequences assigned
No exact matches.



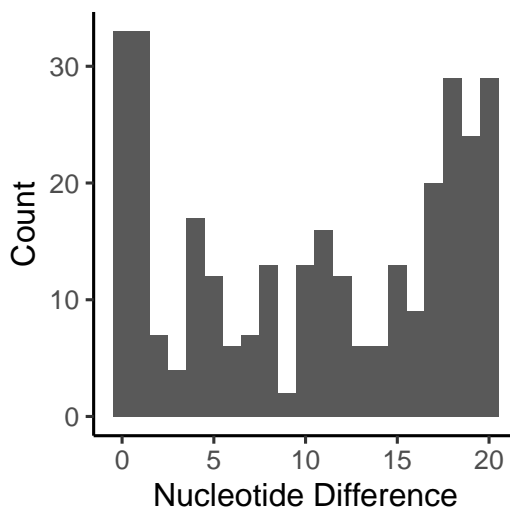
IGHV3-69-1*01

19 sequences assigned
No exact matches.



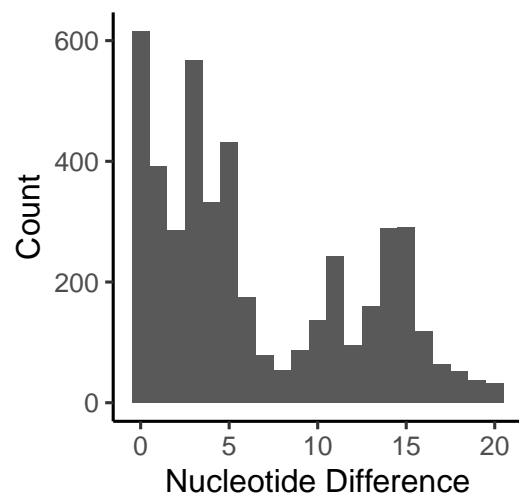
IGHV3-72*01

421 sequences assigned
33 (7.8%) exact matches, in which:
23 unique CDR3
4 unique J



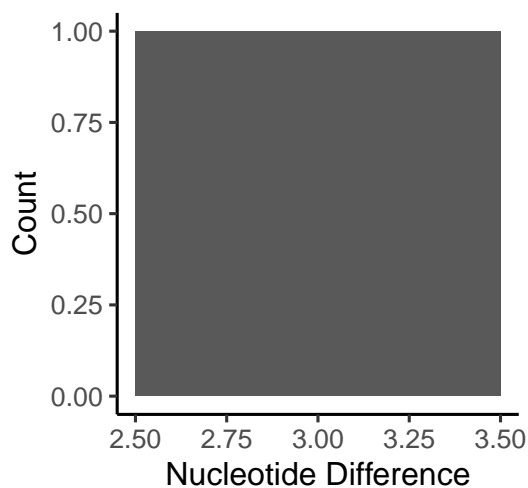
IGHV3-74*01_02

6021 sequences assigned
616 (10.2%) exact matches, in which:
417 unique CDR3
6 unique J



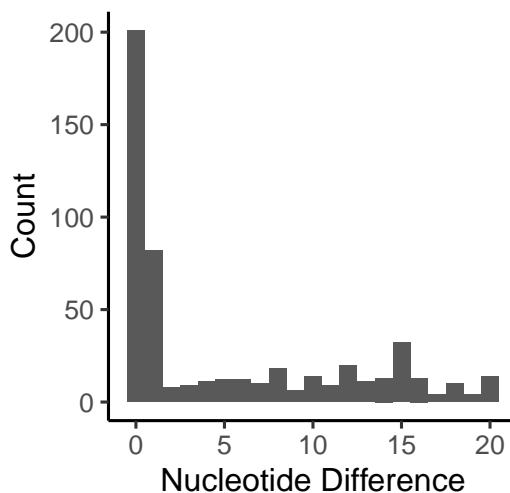
IGHV3-69-1*02

35 sequences assigned
No exact matches.



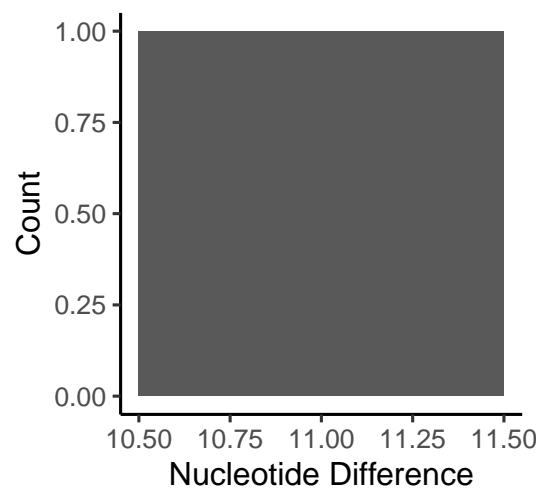
IGHV3-73*01_02

732 sequences assigned
201 (27.5%) exact matches, in which:
142 unique CDR3
5 unique J



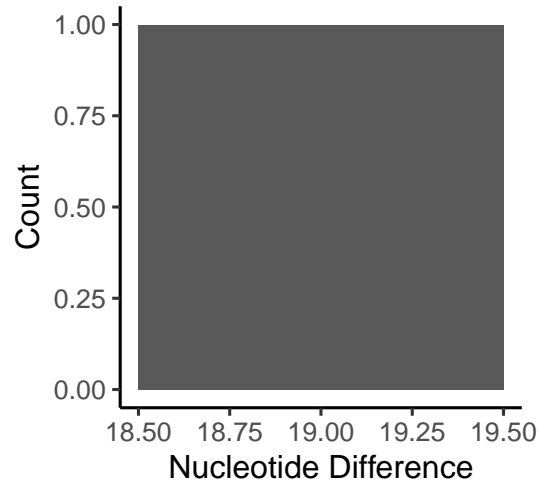
IGHV3-64D*06

12 sequences assigned
No exact matches.



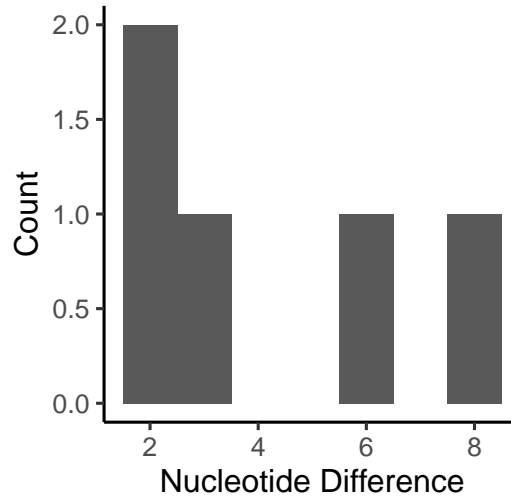
IGHV3-64D*09

1 sequences assigned
No exact matches.



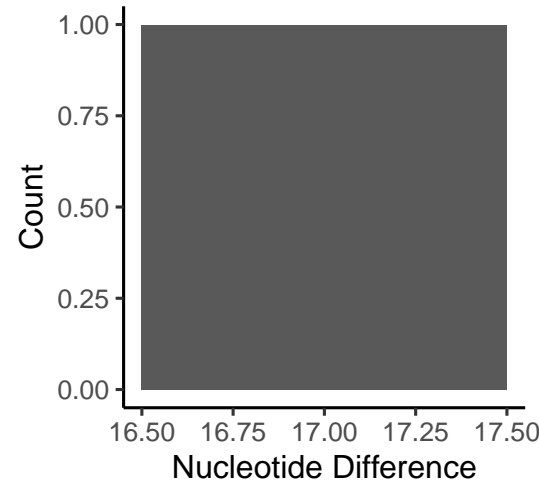
IGHV4-28*03

6 sequences assigned
No exact matches.



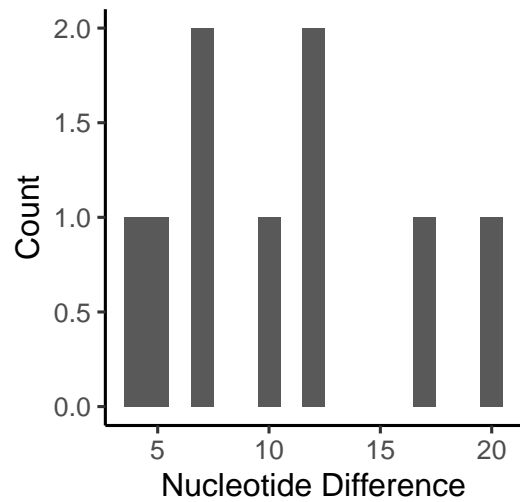
IGHV4-30-4*01

4 sequences assigned
No exact matches.



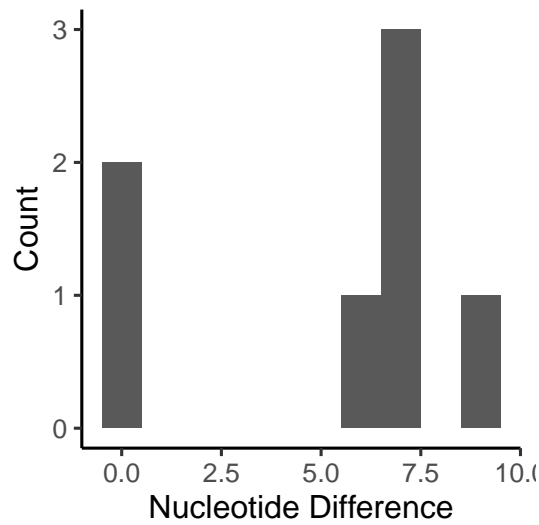
IGHV3-NL1*01

12 sequences assigned
No exact matches.



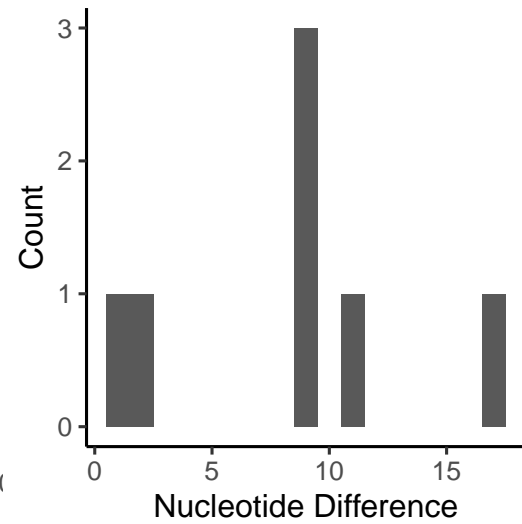
IGHV4-28*01_07

13 sequences assigned
2 (15.4%) exact matches, in which:
2 unique CDR3
1 unique J



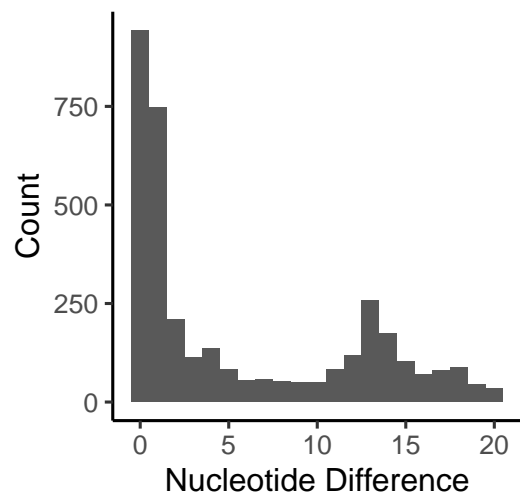
IGHV4-30-2*03

9 sequences assigned
No exact matches.



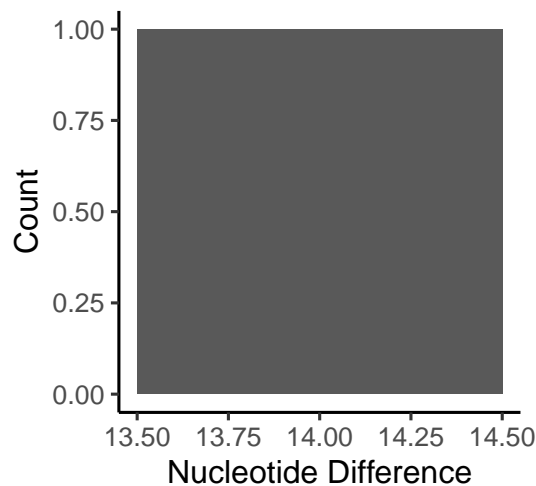
IGHV4-4*07

3860 sequences assigned
943 (24.4%) exact matches, in which:
862 unique CDR3
6 unique J



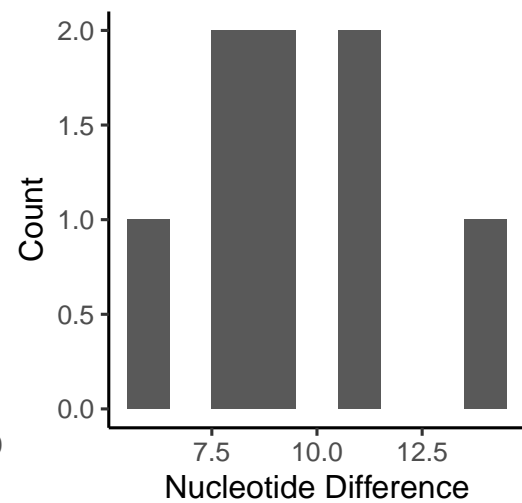
IGHV4-30-2*01

1 sequences assigned
No exact matches.



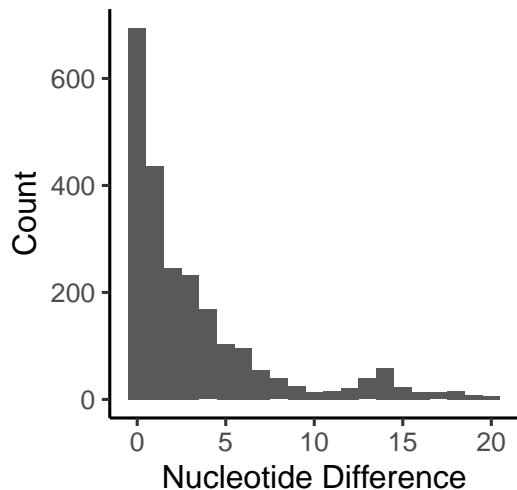
IGHV4-30-4*08

20 sequences assigned
No exact matches.



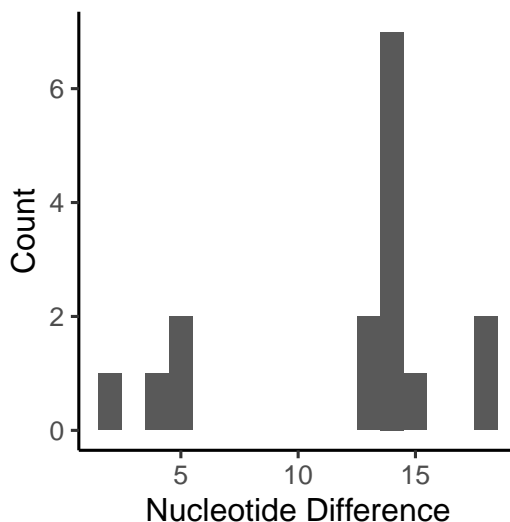
IGHV4-31*02

2930 sequences assigned
695 (23.7%) exact matches, in which:
643 unique CDR3
5 unique J



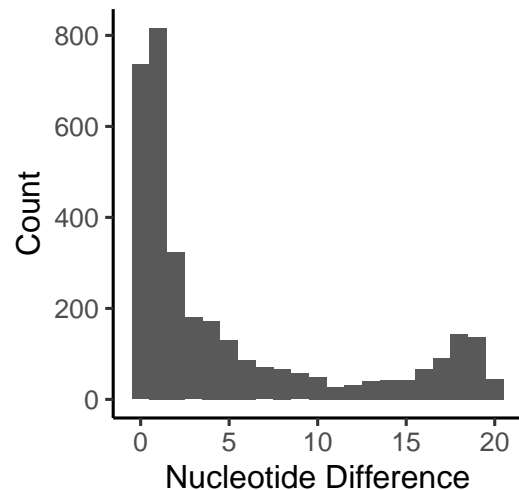
IGHV4-38-2*02

27 sequences assigned
No exact matches.



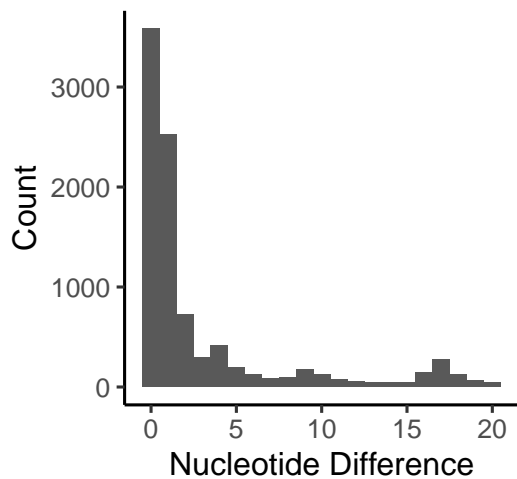
IGHV4-59*08

3548 sequences assigned
736 (20.7%) exact matches, in which:
632 unique CDR3
6 unique J



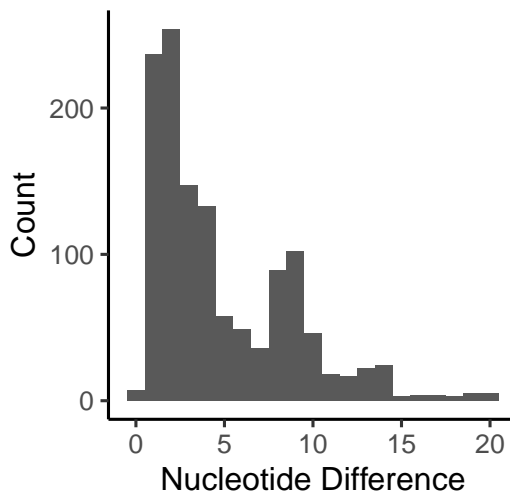
IGHV4-34*01_02

10097 sequences assigned
3583 (35.5%) exact matches, in which:
2809 unique CDR3
6 unique J



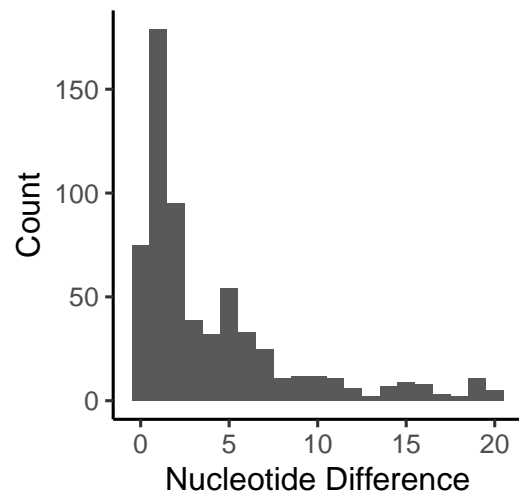
IGHV4-39*07

1307 sequences assigned
7 (0.5%) exact matches, in which:
7 unique CDR3
3 unique J



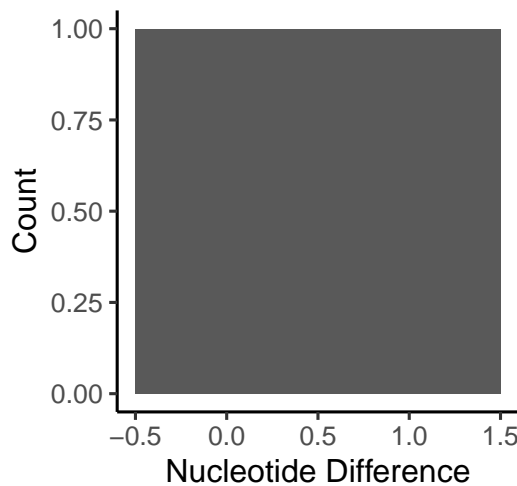
IGHV4-59*12

1392 sequences assigned
75 (5.4%) exact matches, in which:
75 unique CDR3
4 unique J



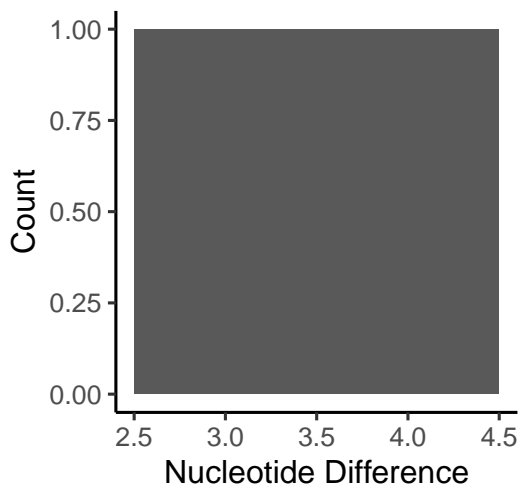
IGHV4-38-2*01

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



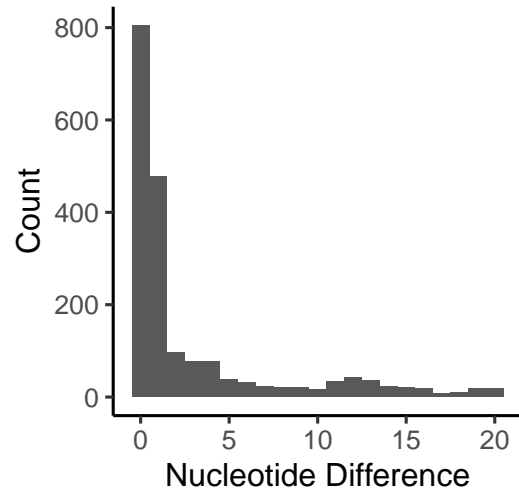
IGHV4-55*09

2 sequences assigned
No exact matches.



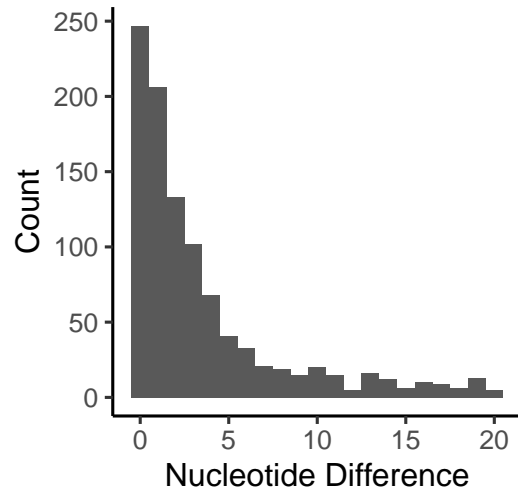
IGHV4-59*13

2547 sequences assigned
805 (31.6%) exact matches, in which:
745 unique CDR3
6 unique J



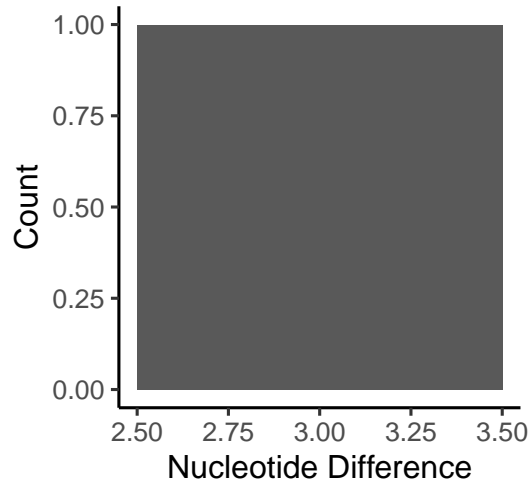
IGHV4–61*01

1148 sequences assigned
247 (21.5%) exact matches, in which:
232 unique CDR3
5 unique J



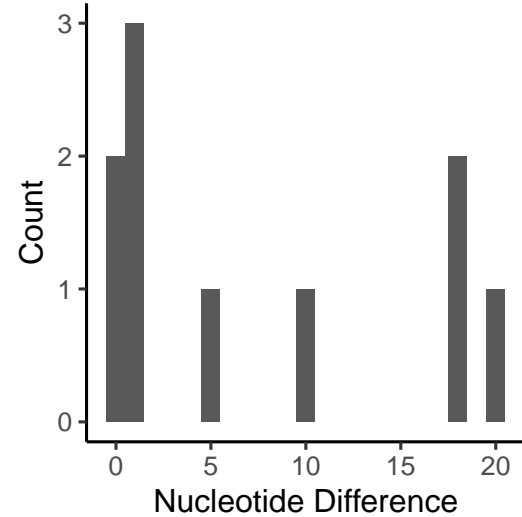
IGHV4/OR15–8*01

1 sequences assigned
No exact matches.



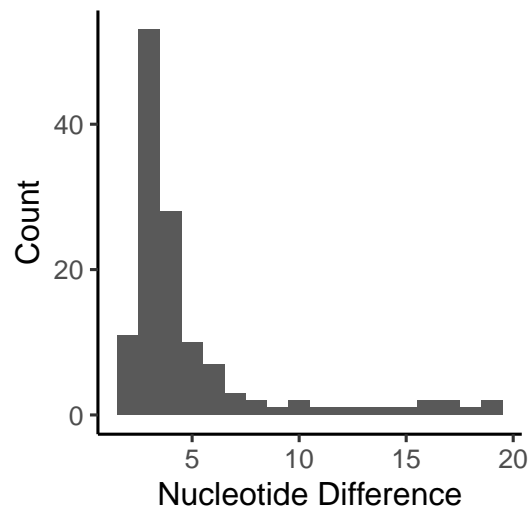
IGHV5–51*06

13 sequences assigned
2 (15.4%) exact matches, in which:
2 unique CDR3
2 unique J



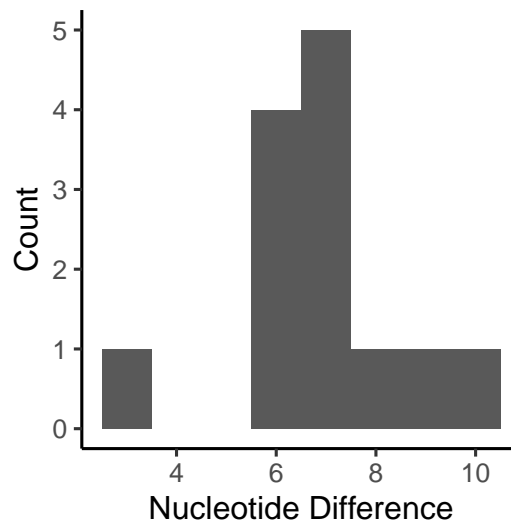
IGHV4–61*05

134 sequences assigned
No exact matches.



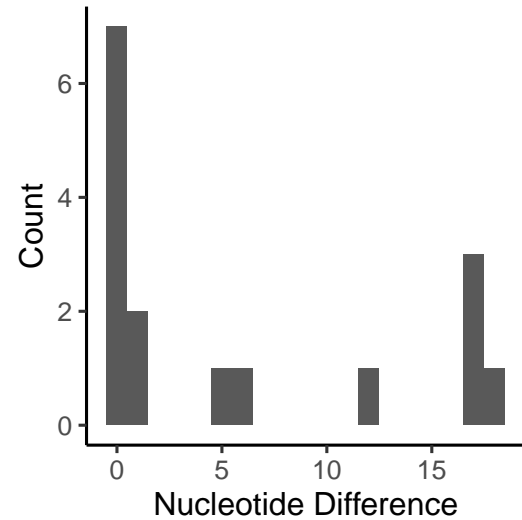
IGHV5–10–1*01_03

13 sequences assigned
No exact matches.



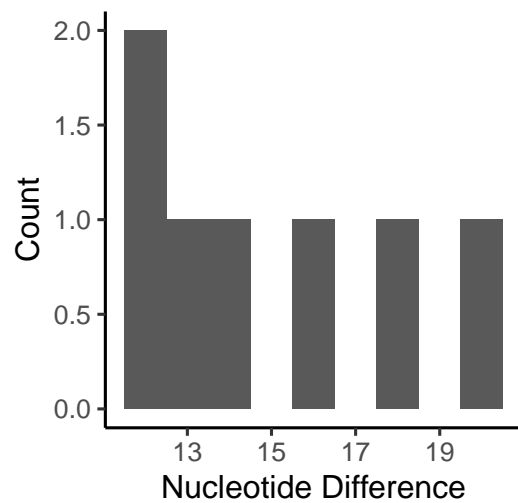
IGHV5–51*07

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



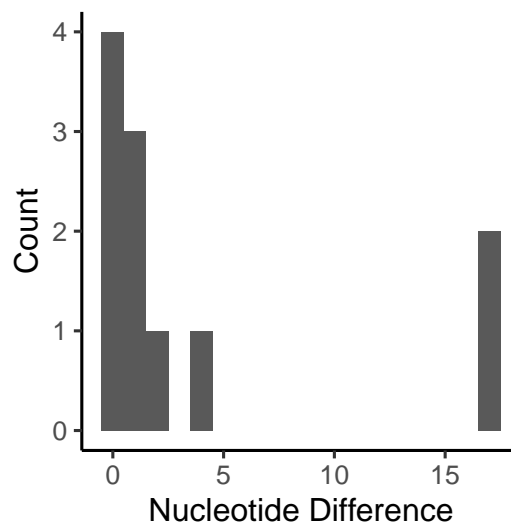
IGHV1/OR15–2*02_03

8 sequences assigned
No exact matches.



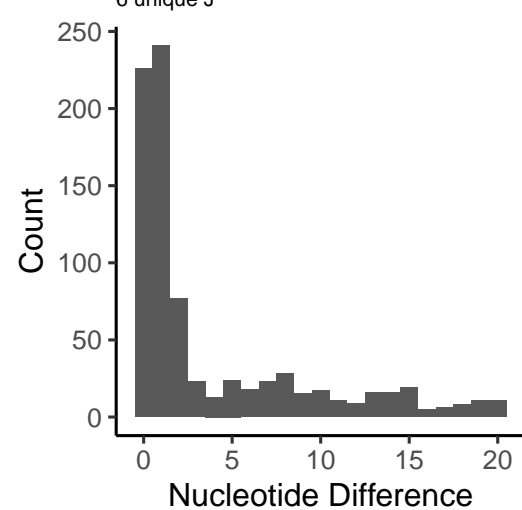
IGHV5–51*04

13 sequences assigned
4 (30.8%) exact matches, in which:
4 unique CDR3
2 unique J



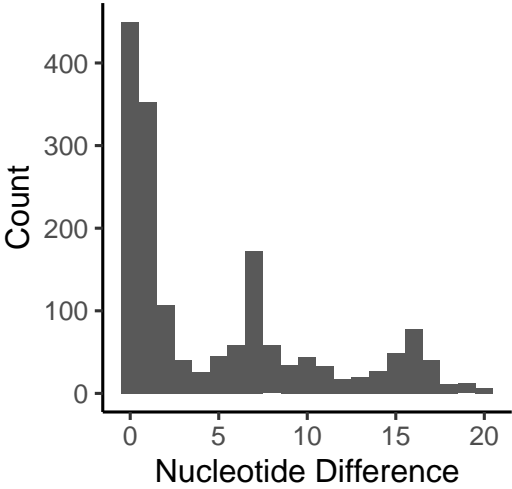
IGHV6–1*01_02

947 sequences assigned
226 (23.9%) exact matches, in which:
202 unique CDR3
6 unique J



IGHV7-4-1*02

1741 sequences assigned
450 (25.8%) exact matches, in which:
397 unique CDR3
6 unique J





Warning – no inferred sequences found.