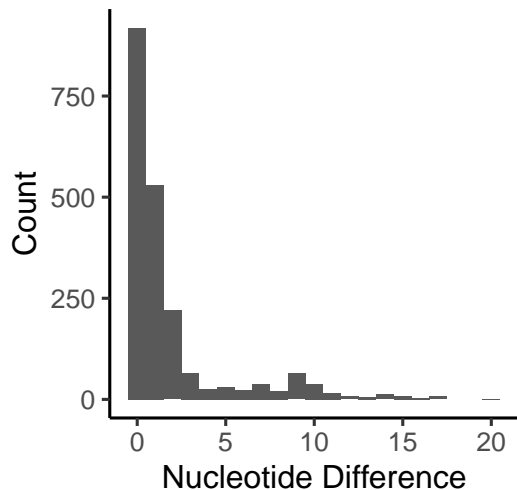


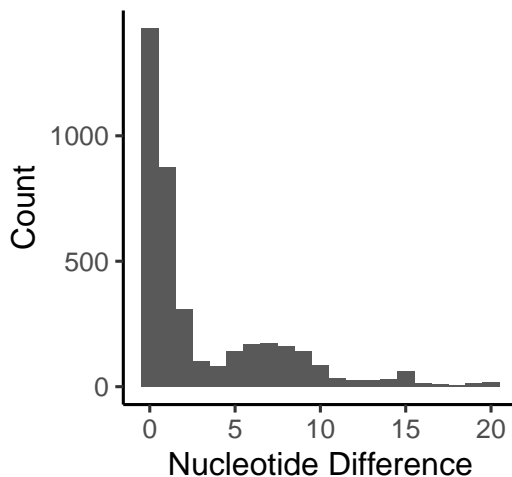
IGHV1-2*04

2213 sequences assigned
919 (41.5%) exact matches, in which:
847 unique CDR3
6 unique J



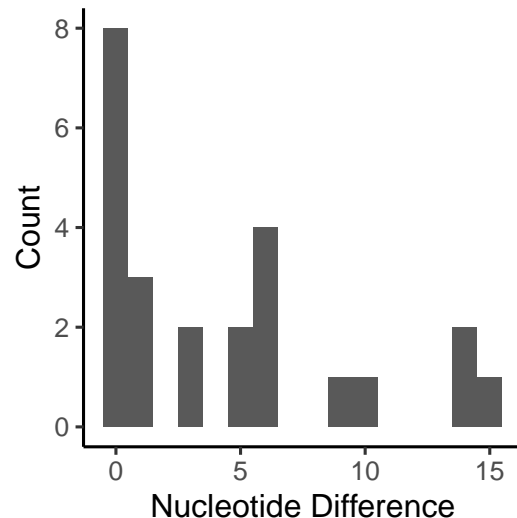
IGHV1-8*01

3932 sequences assigned
1428 (36.3%) exact matches, in which:
1305 unique CDR3
6 unique J



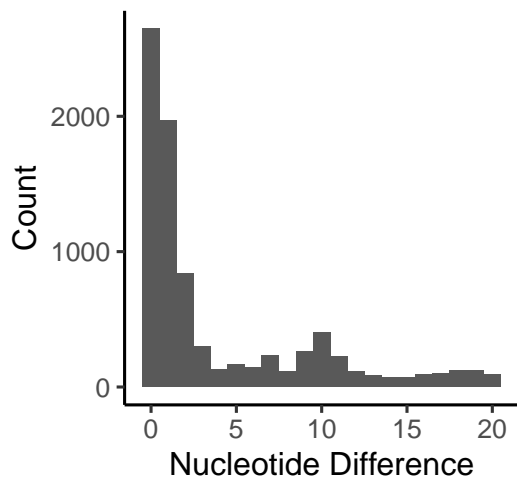
IGHV1-45*02

24 sequences assigned
8 (33.3%) exact matches, in which:
8 unique CDR3
3 unique J



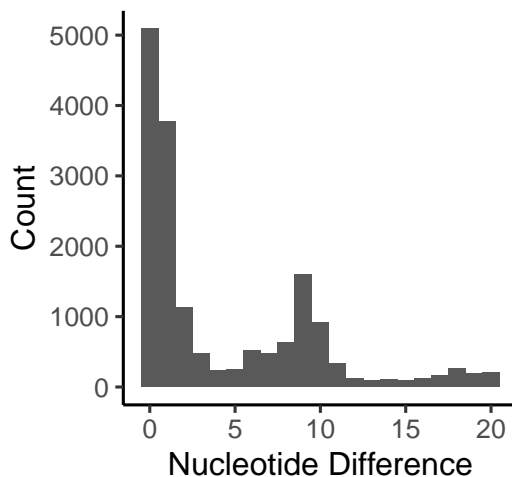
IGHV1-2*06

9343 sequences assigned
2647 (28.3%) exact matches, in which:
2385 unique CDR3
6 unique J



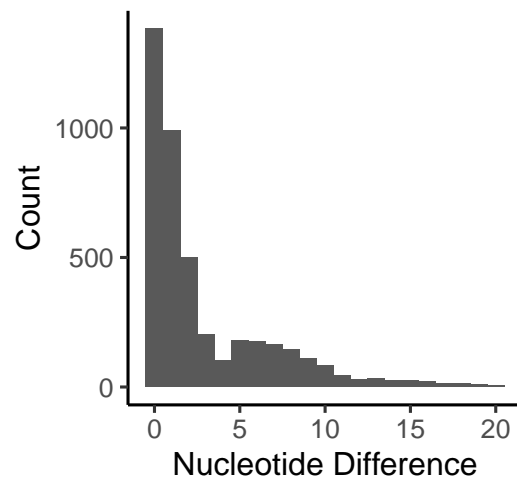
IGHV1-18*01

18078 sequences assigned
5091 (28.2%) exact matches, in which:
4510 unique CDR3
6 unique J



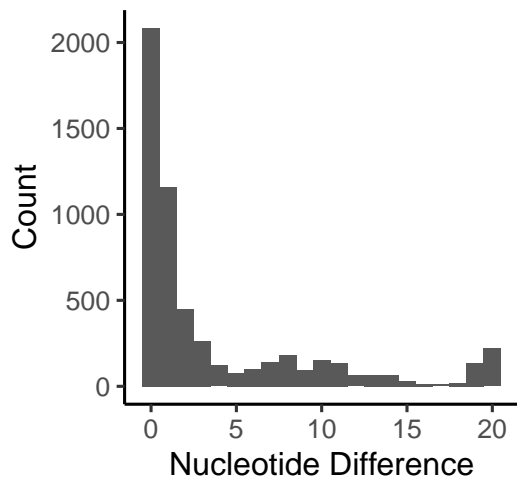
IGHV1-46*01

4773 sequences assigned
1383 (29%) exact matches, in which:
1278 unique CDR3
6 unique J



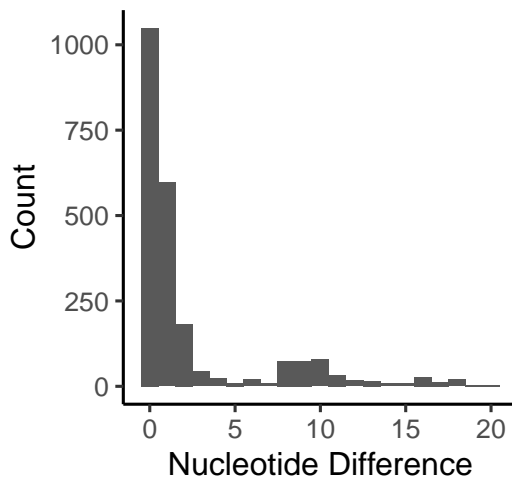
IGHV1-3*01_05

6195 sequences assigned
2084 (33.6%) exact matches, in which:
1877 unique CDR3
6 unique J



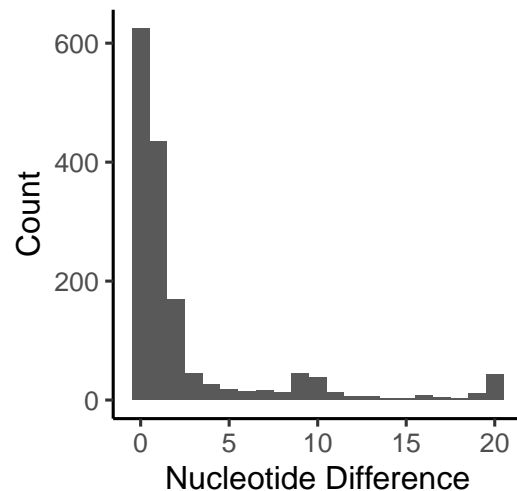
IGHV1-24*01

2378 sequences assigned
1049 (44.1%) exact matches, in which:
939 unique CDR3
6 unique J



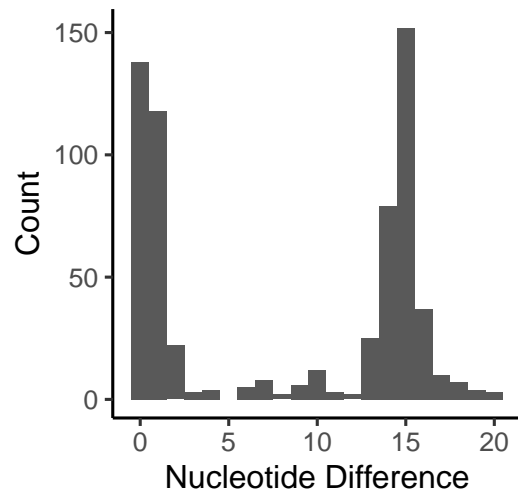
IGHV1-46*03

1741 sequences assigned
625 (35.9%) exact matches, in which:
548 unique CDR3
6 unique J



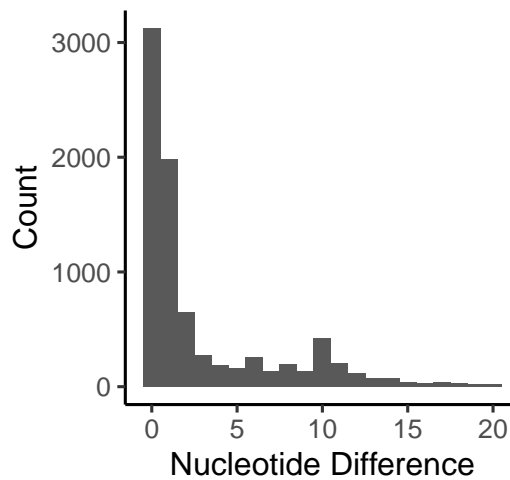
IGHV1-58*02

645 sequences assigned
138 (21.4%) exact matches, in which:
130 unique CDR3
5 unique J



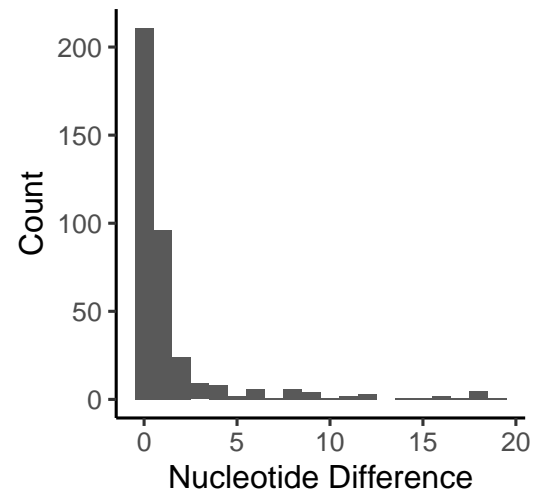
IGHV1-69*01_12_13

9100 sequences assigned
3123 (34.3%) exact matches, in which:
2924 unique CDR3
6 unique J



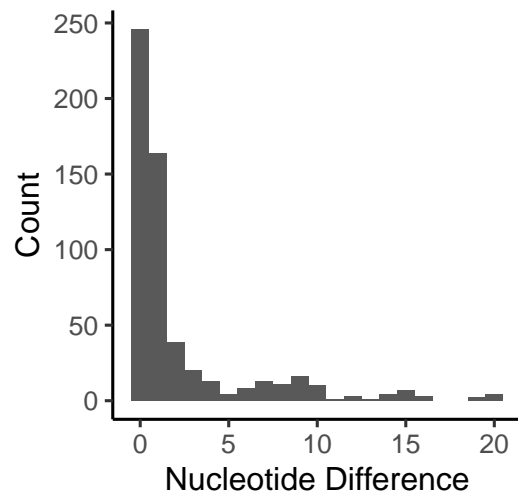
IGHV2-26*01

390 sequences assigned
211 (54.1%) exact matches, in which:
197 unique CDR3
5 unique J



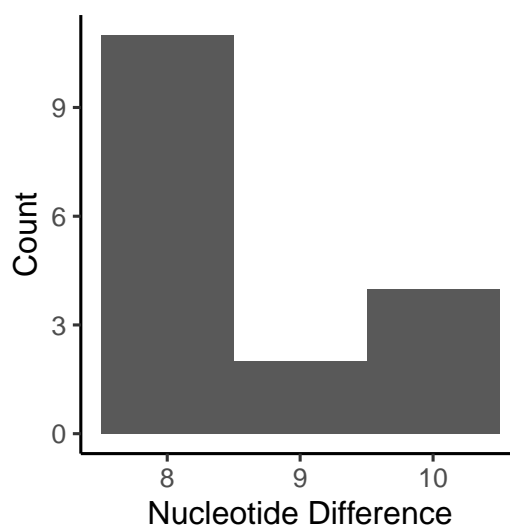
IGHV1-58*01_03

747 sequences assigned
246 (32.9%) exact matches, in which:
221 unique CDR3
6 unique J



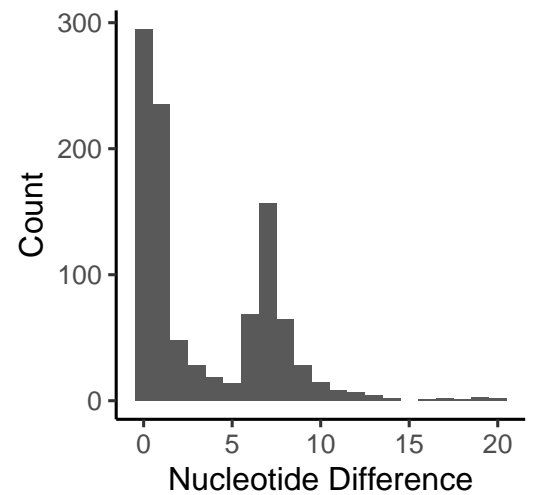
IGHV1-NL1*01

17 sequences assigned
No exact matches.



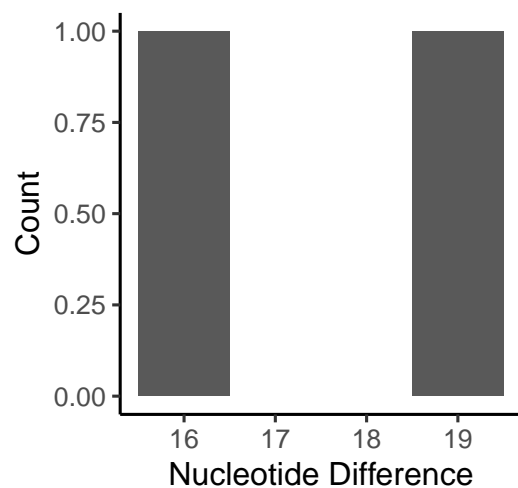
IGHV2-70*01

1032 sequences assigned
295 (28.6%) exact matches, in which:
263 unique CDR3
6 unique J



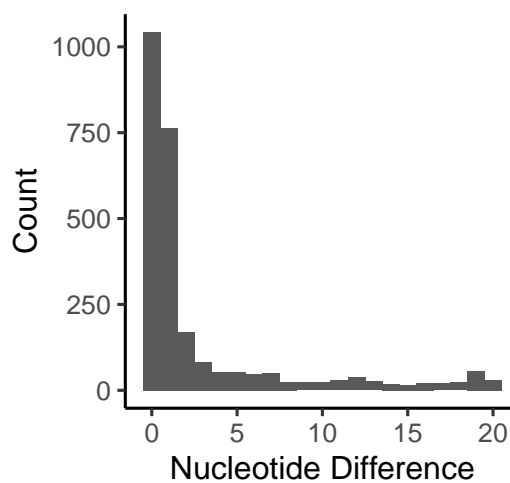
IGHV1-69-2*01

2 sequences assigned
No exact matches.



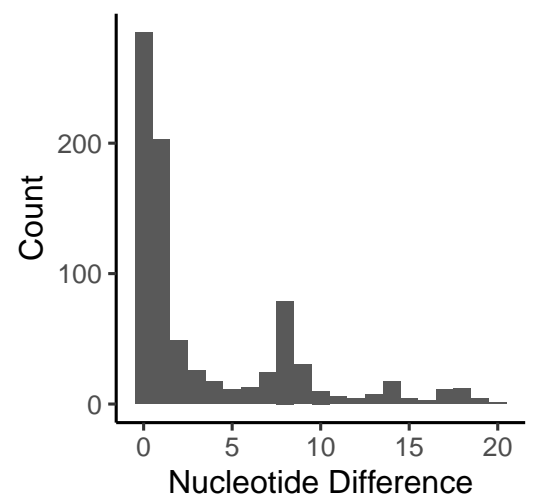
IGHV2-5*02

2971 sequences assigned
1043 (35.1%) exact matches, in which:
949 unique CDR3
6 unique J



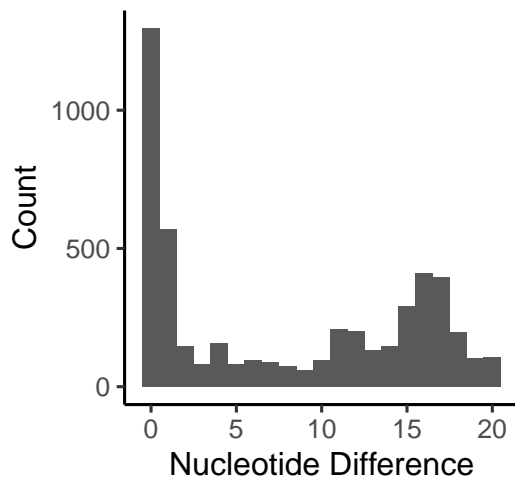
IGHV2-70*11_15

842 sequences assigned
285 (33.8%) exact matches, in which:
258 unique CDR3
6 unique J



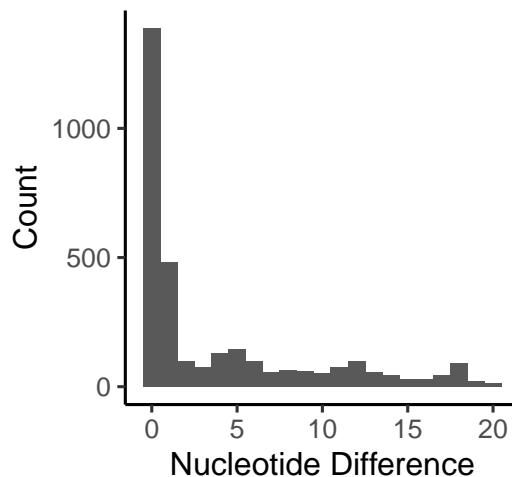
IGHV3-7*01

10627 sequences assigned
1296 (12.2%) exact matches, in which:
933 unique CDR3
6 unique J



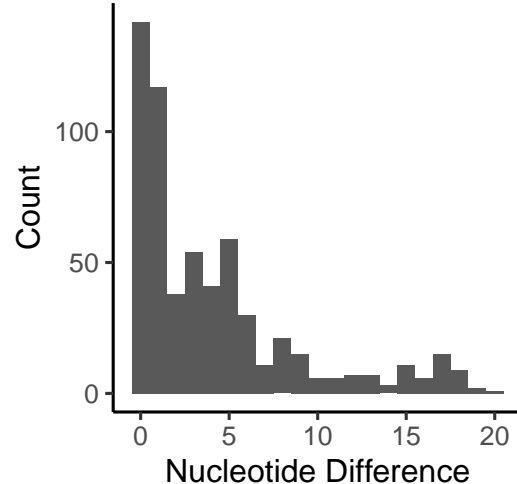
IGHV3-9*01

3493 sequences assigned
1387 (39.7%) exact matches, in which:
980 unique CDR3
6 unique J



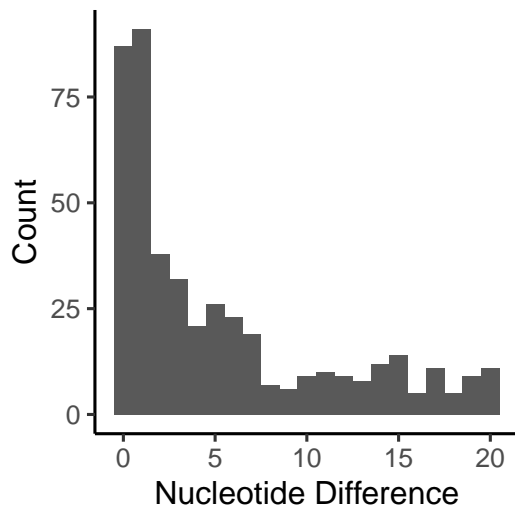
IGHV3-11*06

633 sequences assigned
142 (22.4%) exact matches, in which:
140 unique CDR3
6 unique J



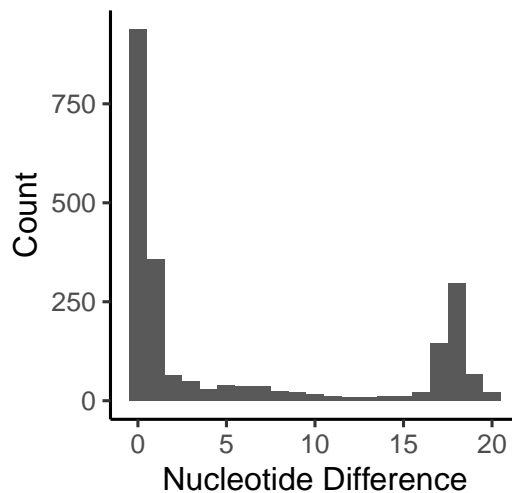
IGHV3-7*03

645 sequences assigned
87 (13.5%) exact matches, in which:
79 unique CDR3
6 unique J



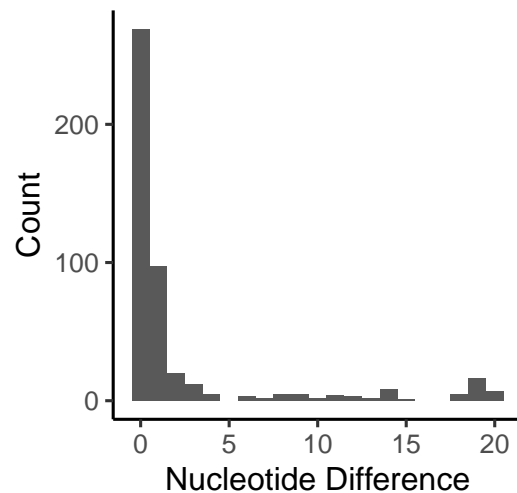
IGHV3-11*01

2375 sequences assigned
939 (39.5%) exact matches, in which:
690 unique CDR3
6 unique J



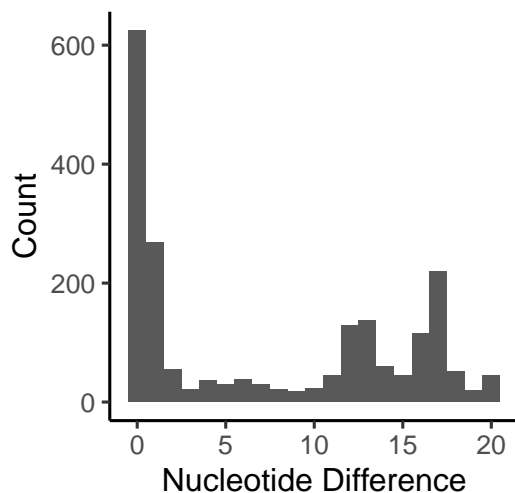
IGHV3-13*01

494 sequences assigned
269 (54.5%) exact matches, in which:
170 unique CDR3
6 unique J



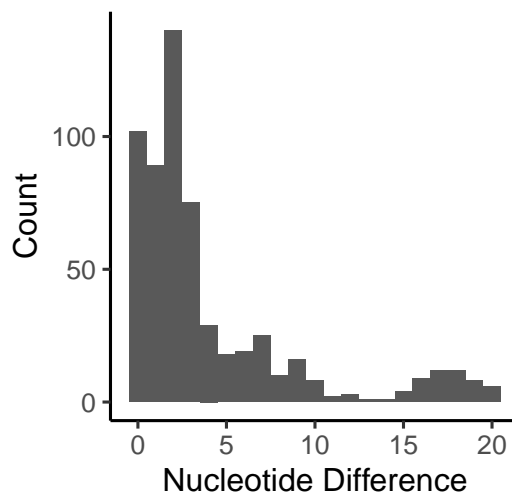
IGHV3-7*04

2260 sequences assigned
625 (27.7%) exact matches, in which:
424 unique CDR3
6 unique J



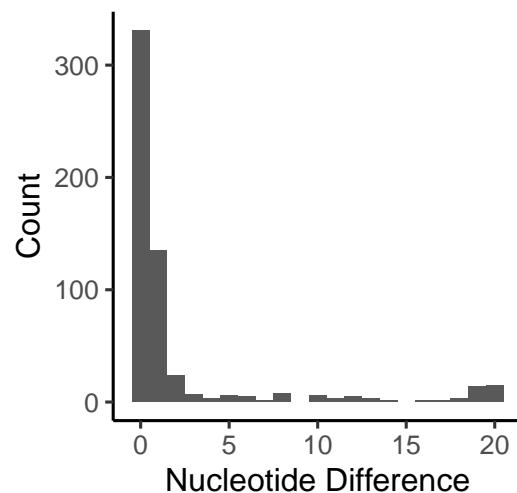
IGHV3-11*04

626 sequences assigned
102 (16.3%) exact matches, in which:
99 unique CDR3
5 unique J



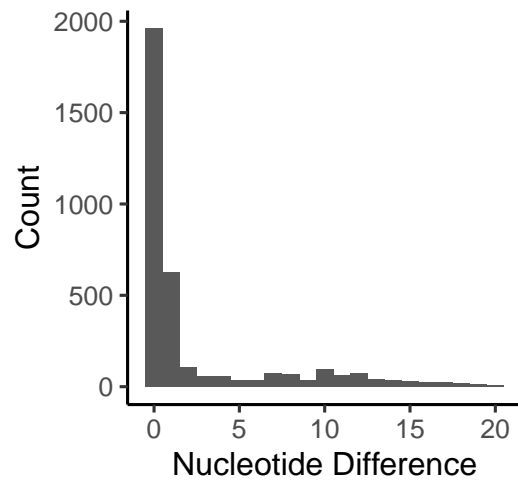
IGHV3-13*04

585 sequences assigned
331 (56.6%) exact matches, in which:
218 unique CDR3
6 unique J



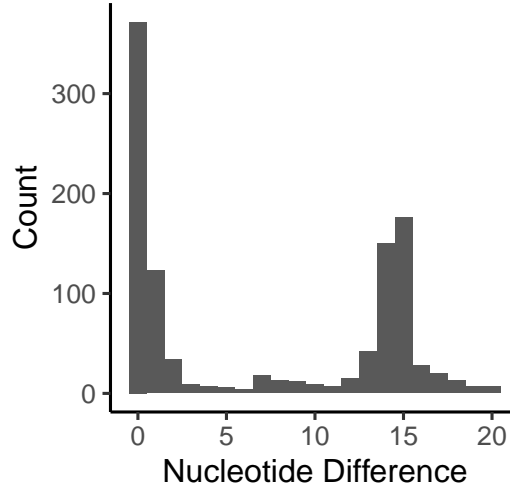
IGHV3-15*01_02

4881 sequences assigned
1961 (40.2%) exact matches, in which:
1401 unique CDR3
6 unique J



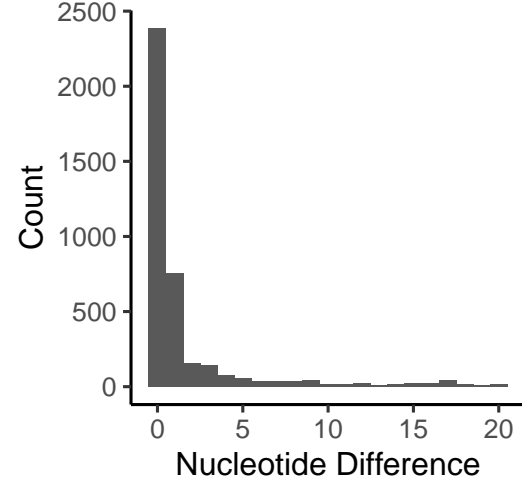
IGHV3-20*03_04

1128 sequences assigned
372 (33%) exact matches, in which:
265 unique CDR3
6 unique J



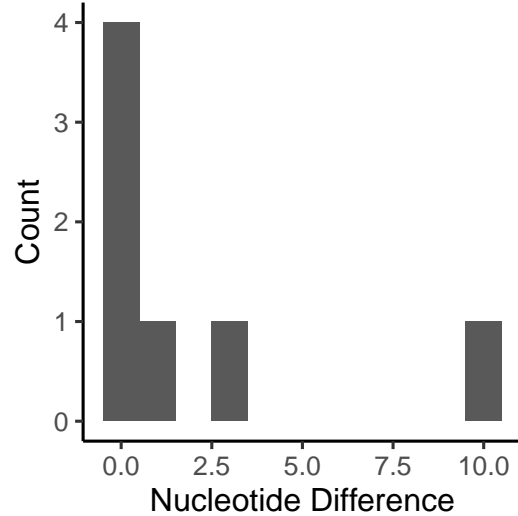
IGHV3-30*01

4062 sequences assigned
2385 (58.7%) exact matches, in which:
1714 unique CDR3
6 unique J



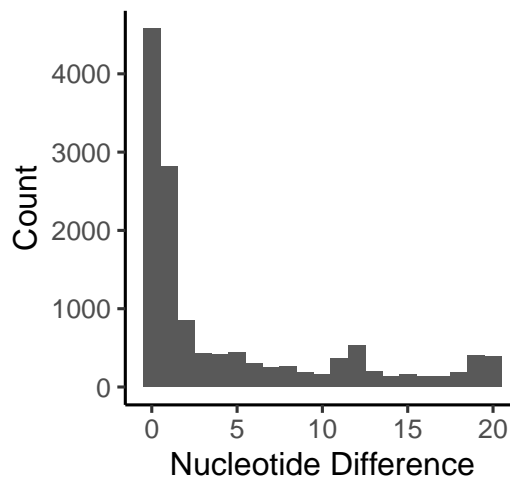
IGHV3-19*01

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



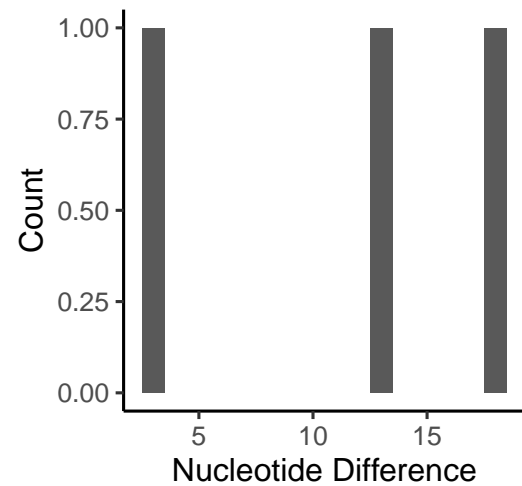
IGHV3-21*01_02

15064 sequences assigned
4576 (30.4%) exact matches, in which:
3094 unique CDR3
6 unique J



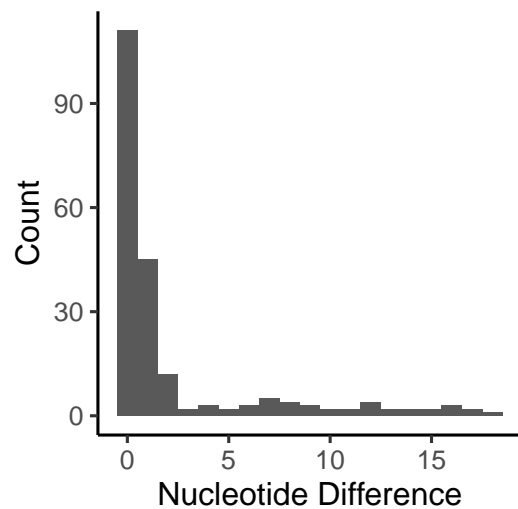
IGHV3-30-3*02

80 sequences assigned
No exact matches.



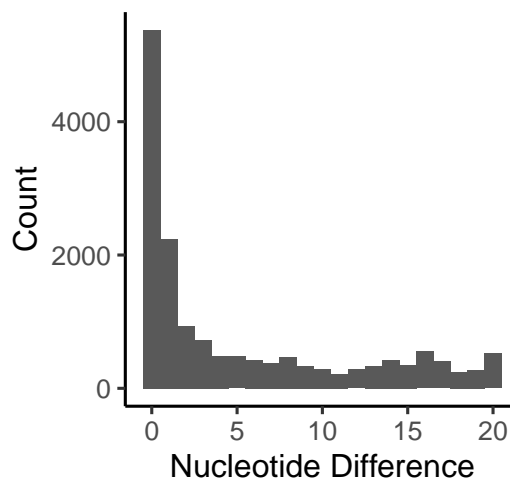
IGHV3-20*01_02

223 sequences assigned
111 (49.8%) exact matches, in which:
81 unique CDR3
5 unique J



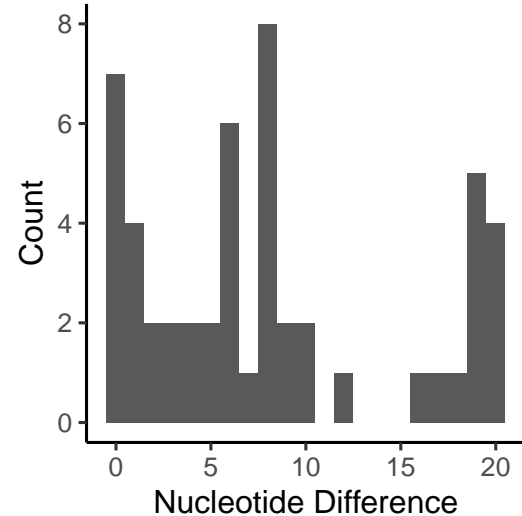
IGHV3-23*01_04

21329 sequences assigned
5375 (25.2%) exact matches, in which:
3553 unique CDR3
6 unique J



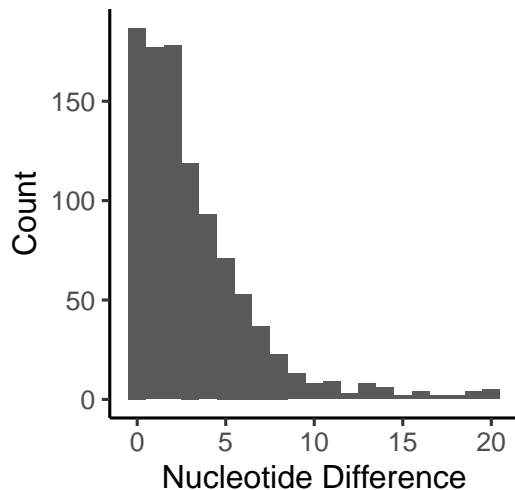
IGHV3-30-3*03

107 sequences assigned
7 (6.5%) exact matches, in which:
7 unique CDR3
2 unique J



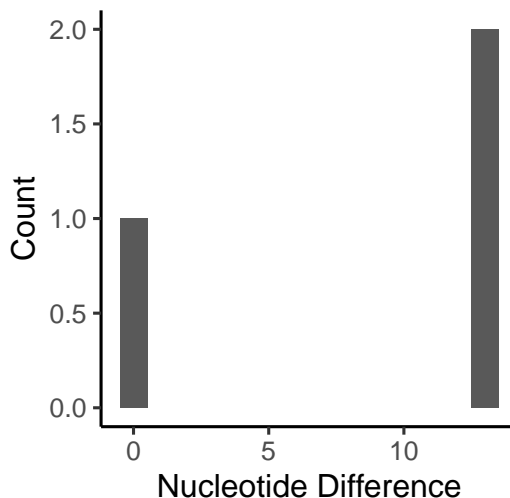
IGHV3–30*07

1030 sequences assigned
187 (18.2%) exact matches, in which:
183 unique CDR3
6 unique J



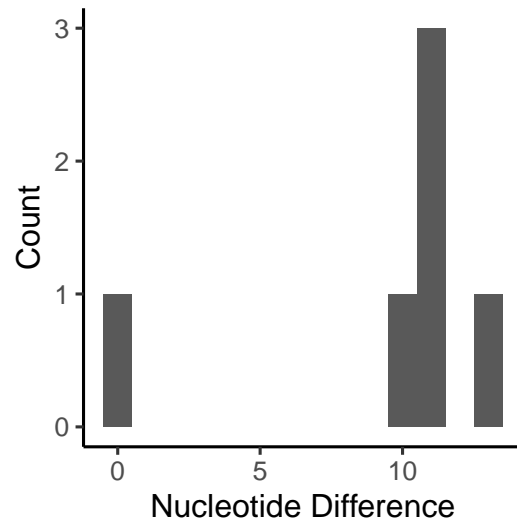
IGHV3–35*01

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



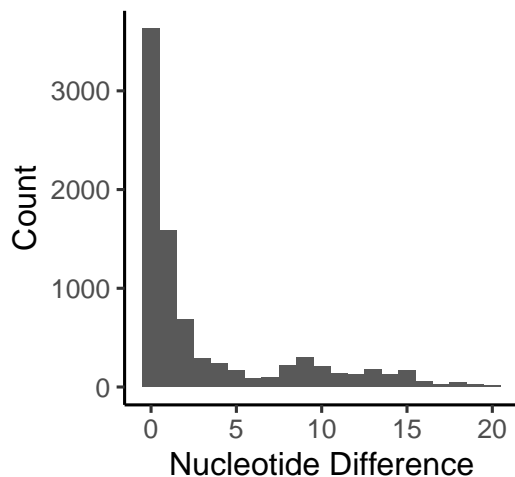
IGHV3–47*02

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



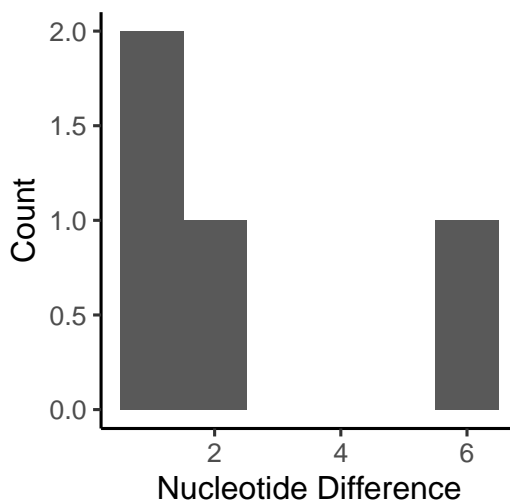
IGHV3–33*01

8754 sequences assigned
3629 (41.5%) exact matches, in which:
2676 unique CDR3
6 unique J



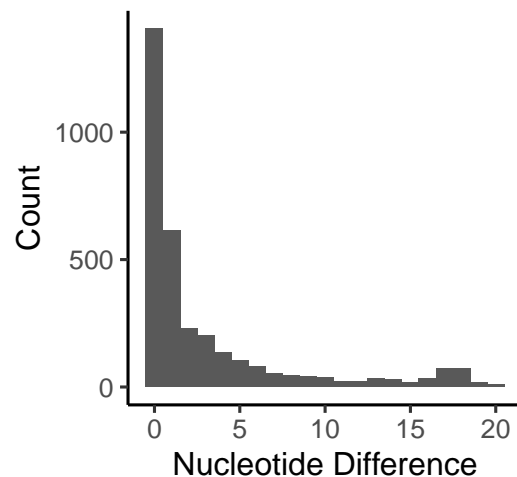
IGHV3–43*01

4 sequences assigned
No exact matches.



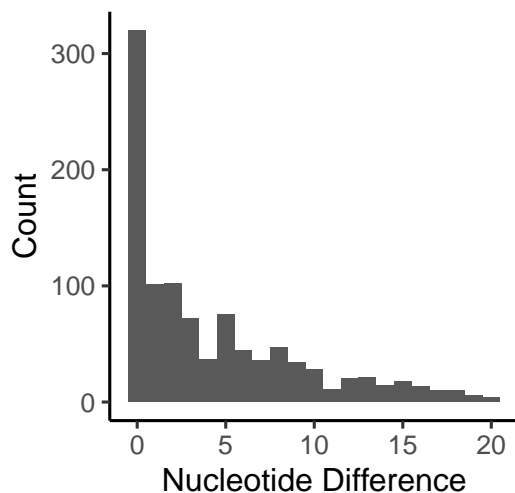
IGHV3–48*01

3361 sequences assigned
1406 (41.8%) exact matches, in which:
994 unique CDR3
6 unique J



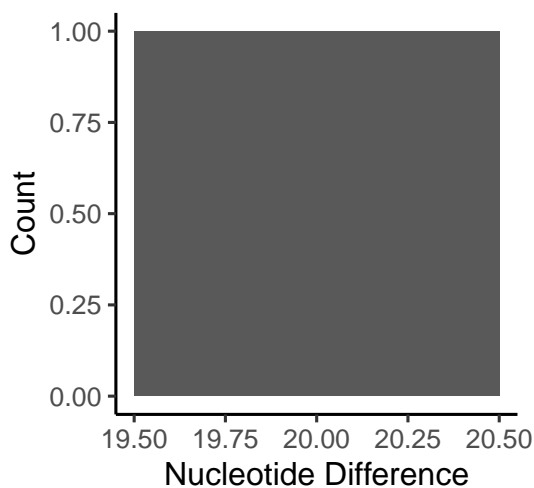
IGHV3–33*08

1076 sequences assigned
320 (29.7%) exact matches, in which:
299 unique CDR3
6 unique J



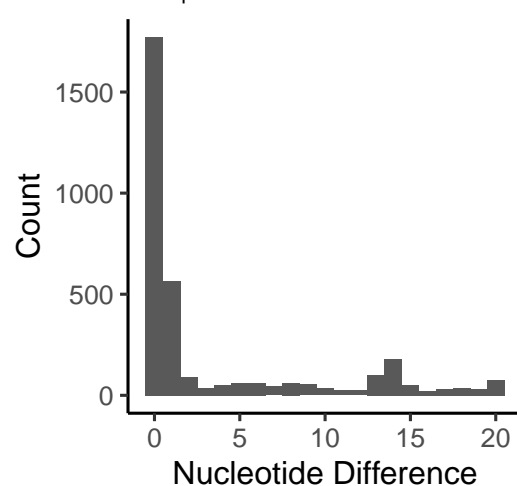
IGHV3–43*02

1 sequences assigned
No exact matches.



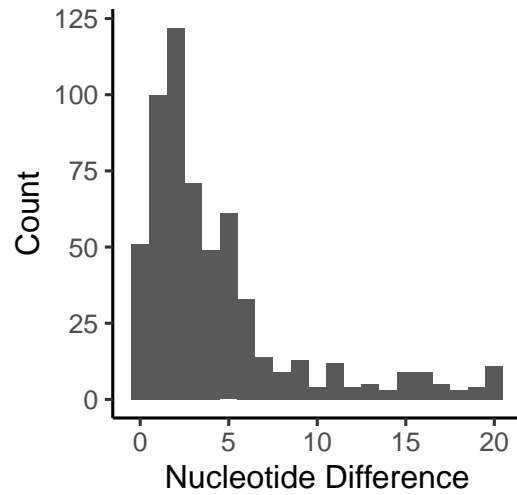
IGHV3–48*03

4551 sequences assigned
1772 (38.9%) exact matches, in which:
1265 unique CDR3
6 unique J



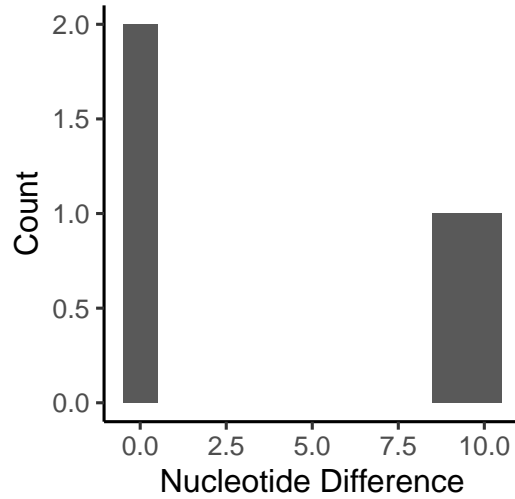
IGHV3-48*04

670 sequences assigned
51 (7.6%) exact matches, in which:
51 unique CDR3
5 unique J



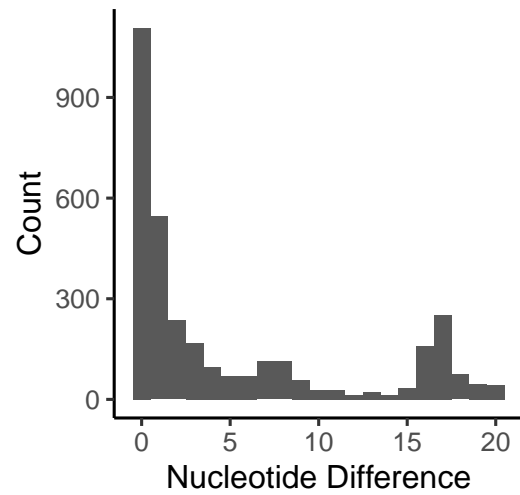
IGHV3-52*02

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



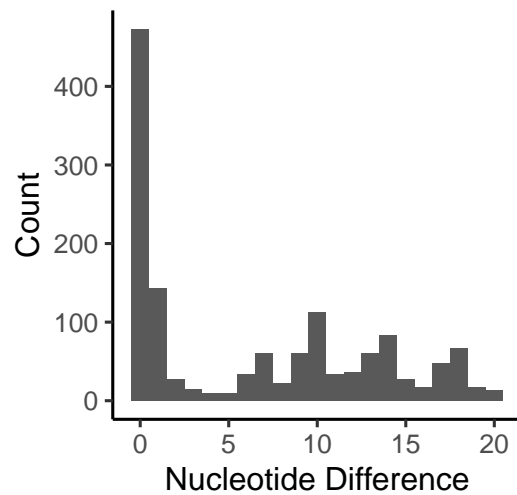
IGHV3-53*01_02

4433 sequences assigned
1108 (25%) exact matches, in which:
770 unique CDR3
6 unique J



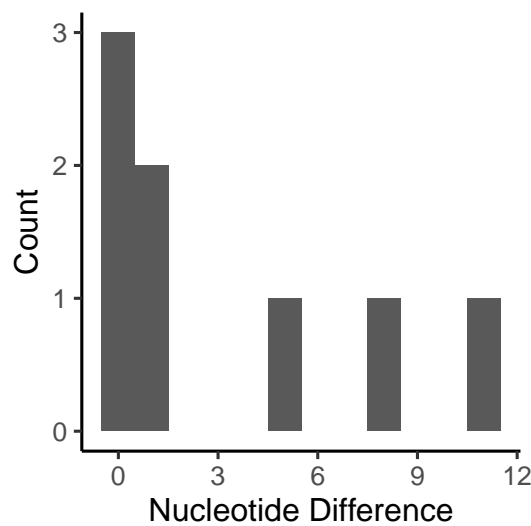
IGHV3-49*04

1411 sequences assigned
473 (33.5%) exact matches, in which:
346 unique CDR3
6 unique J



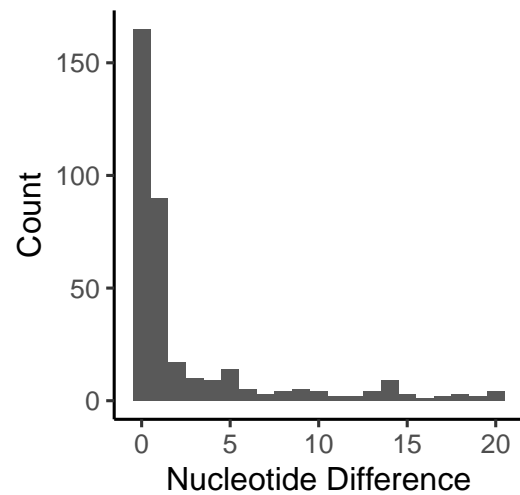
IGHV3-52*01_03

8 sequences assigned
3 (37.5%) exact matches, in which:
2 unique CDR3
1 unique J



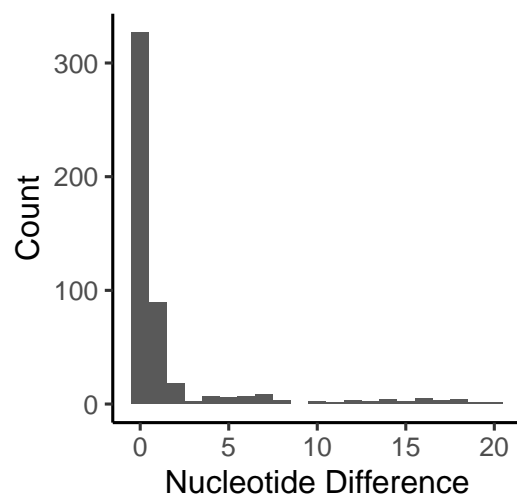
IGHV3-64*01

589 sequences assigned
165 (28%) exact matches, in which:
112 unique CDR3
6 unique J



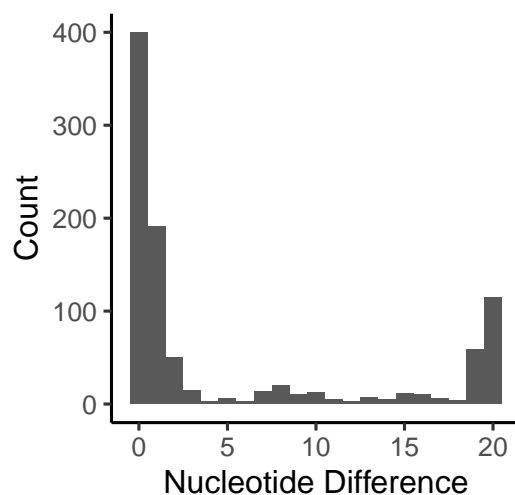
IGHV3-49*03_05

503 sequences assigned
327 (65%) exact matches, in which:
243 unique CDR3
6 unique J



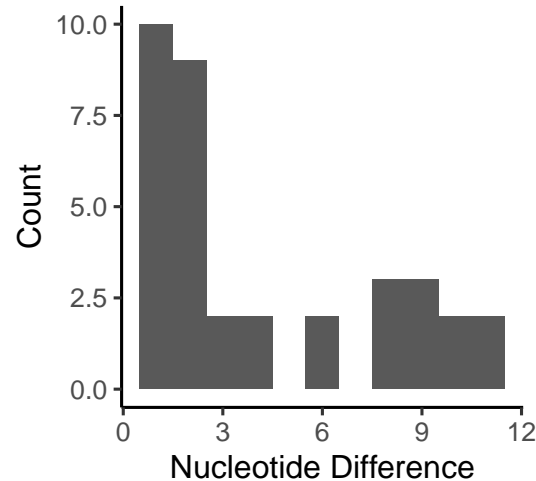
IGHV3-53*04

1016 sequences assigned
400 (39.4%) exact matches, in which:
277 unique CDR3
6 unique J



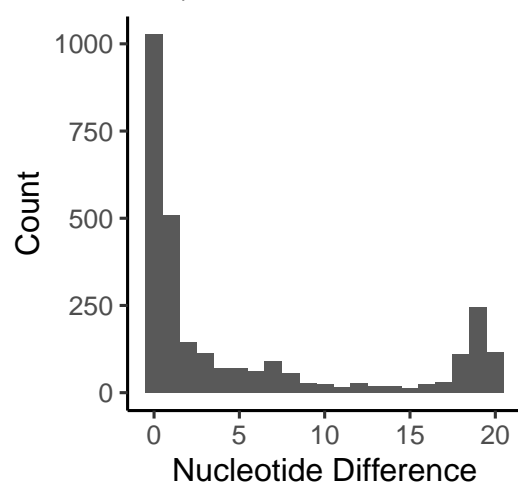
IGHV3-64*04

37 sequences assigned
No exact matches.



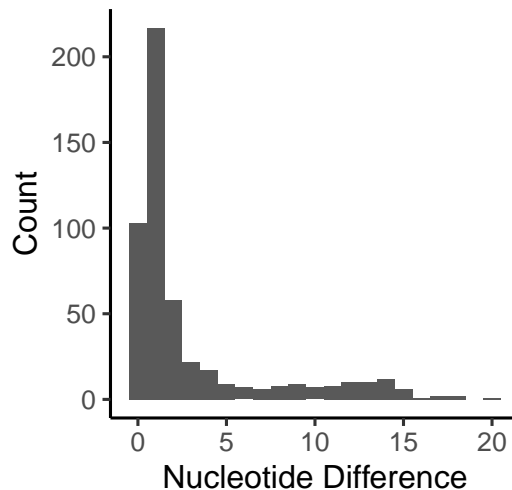
IGHV3-66*01

3740 sequences assigned
1027 (27.5%) exact matches, in which:
711 unique CDR3
6 unique J



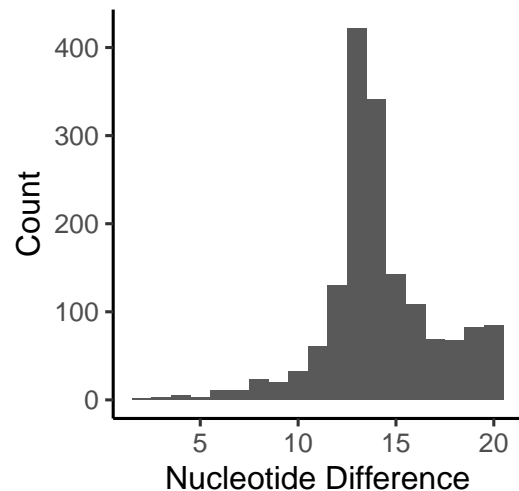
IGHV3-69-1*01_A107T_

516 sequences assigned
103 (20%) exact matches, in which:
57 unique CDR3
4 unique J



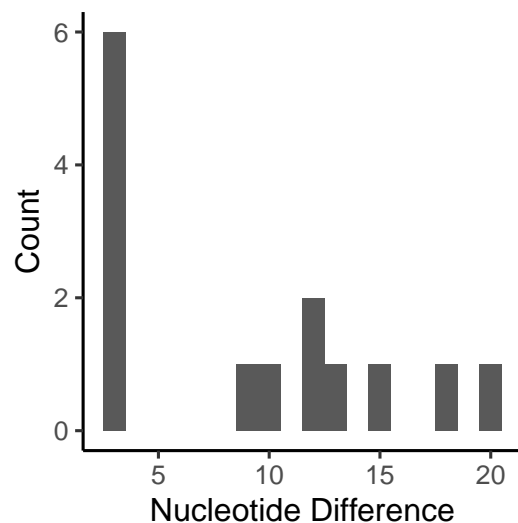
IGHV3-74*03

2949 sequences assigned
No exact matches.



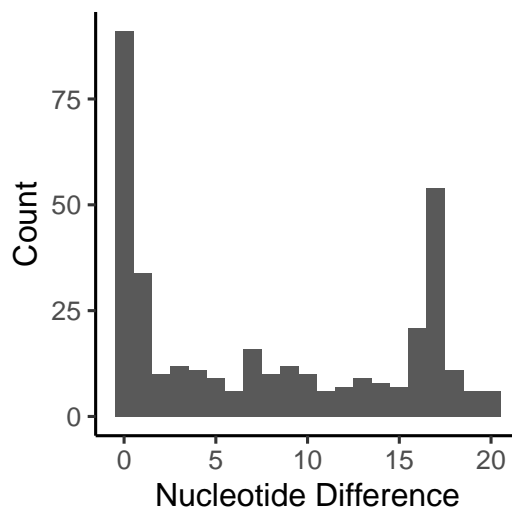
IGHV3-69-1*01

37 sequences assigned
No exact matches.



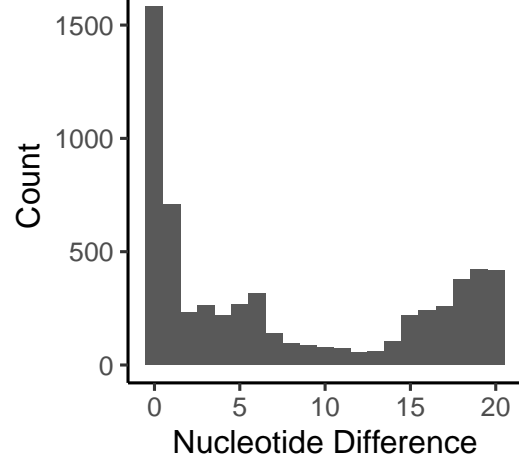
IGHV3-72*01

619 sequences assigned
91 (14.7%) exact matches, in which:
63 unique CDR3
5 unique J



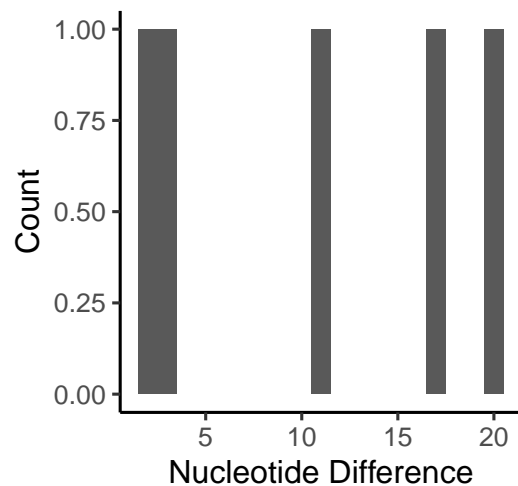
IGHV3-74*01_02

7576 sequences assigned
1581 (20.9%) exact matches, in which:
1098 unique CDR3
6 unique J



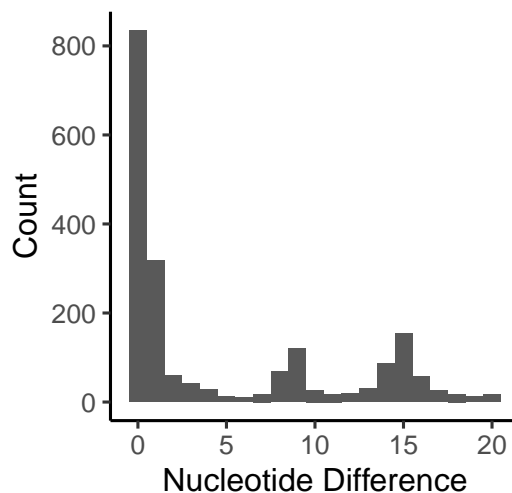
IGHV3-69-1*02

5 sequences assigned
No exact matches.



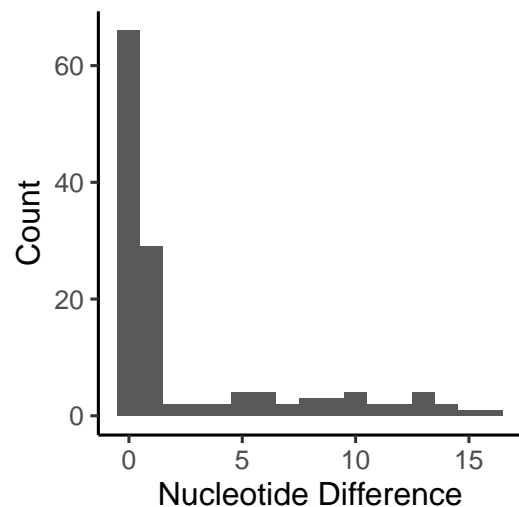
IGHV3-73*01_02

2288 sequences assigned
835 (36.5%) exact matches, in which:
593 unique CDR3
6 unique J



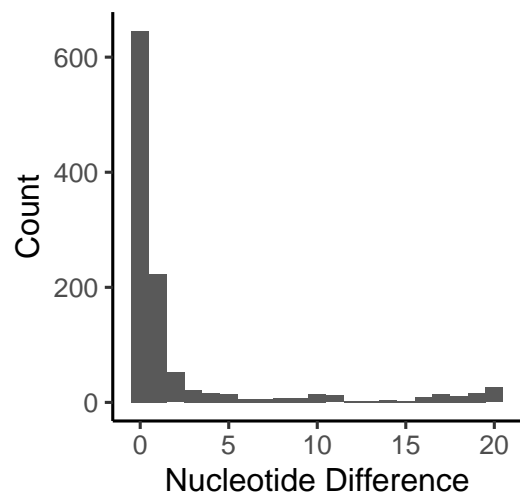
IGHV3-43D*04

137 sequences assigned
66 (48.2%) exact matches, in which:
53 unique CDR3
4 unique J



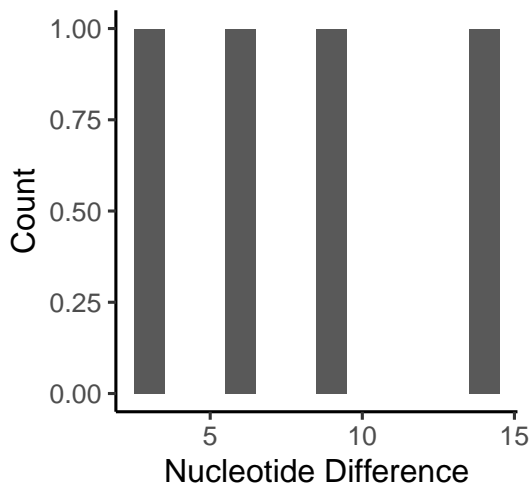
IGHV3–64D*06

1256 sequences assigned
646 (51.4%) exact matches, in which:
427 unique CDR3
6 unique J



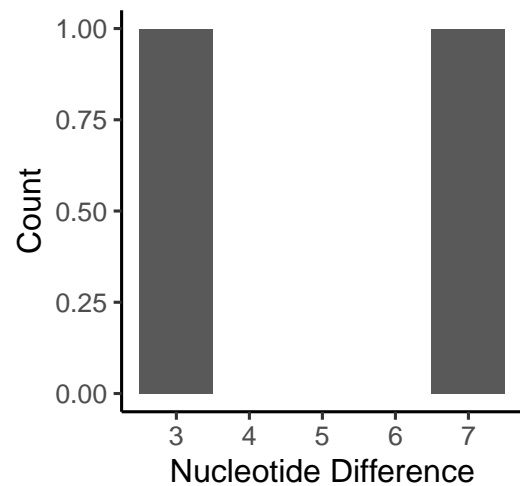
IGHV4–28*03

7 sequences assigned
No exact matches.



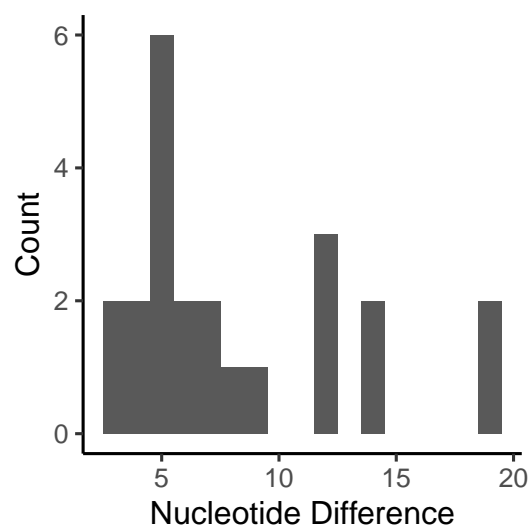
IGHV4–30–4*05

2 sequences assigned
No exact matches.



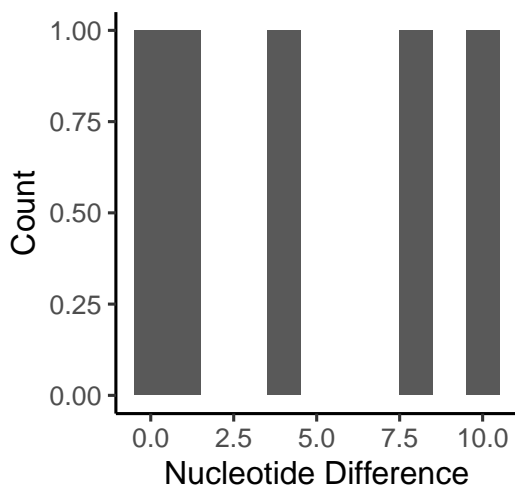
IGHV3–NL1*01

38 sequences assigned
No exact matches.



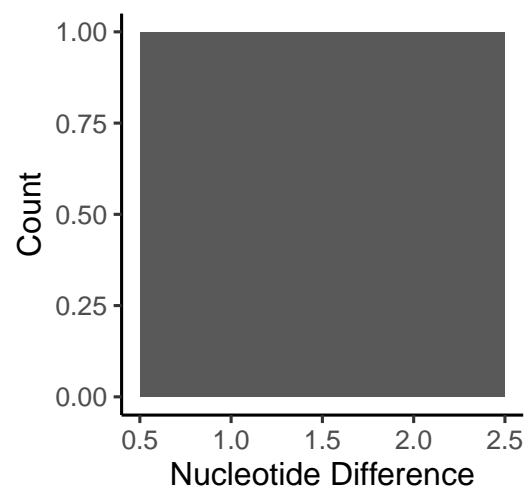
IGHV4–28*01_07

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



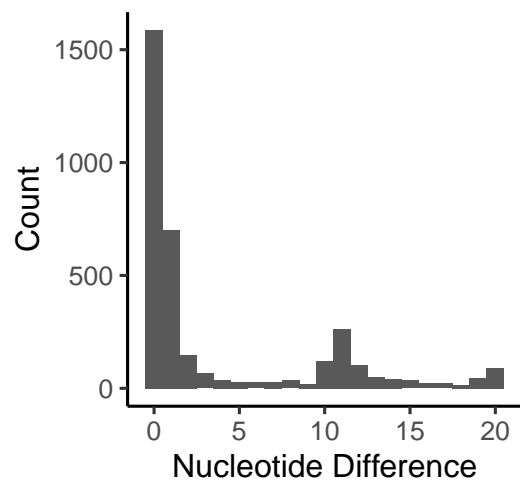
IGHV4–30–4*07

2 sequences assigned
No exact matches.



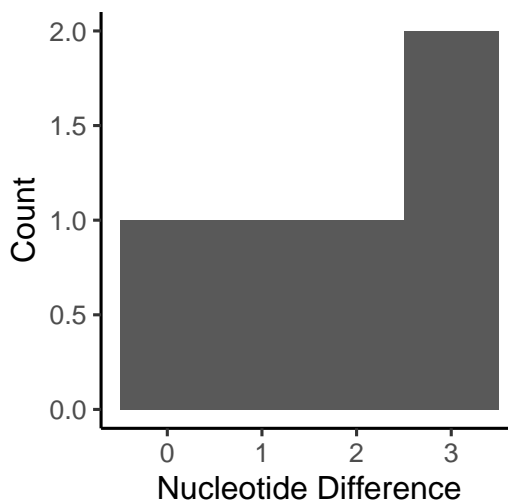
IGHV4–4*02_03

5340 sequences assigned
1587 (29.7%) exact matches, in which:
1376 unique CDR3
6 unique J



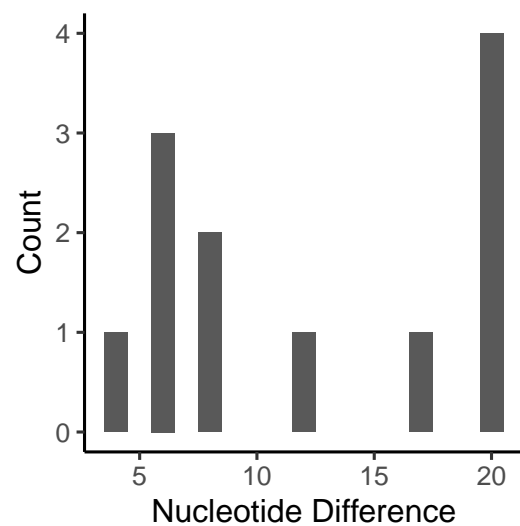
IGHV4–28*02_05

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



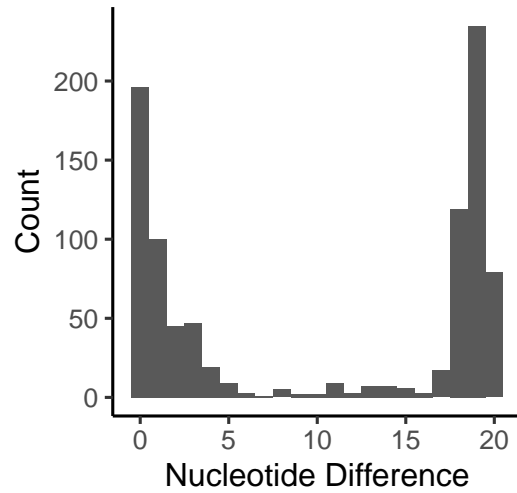
IGHV4–30–4*08

24 sequences assigned
No exact matches.



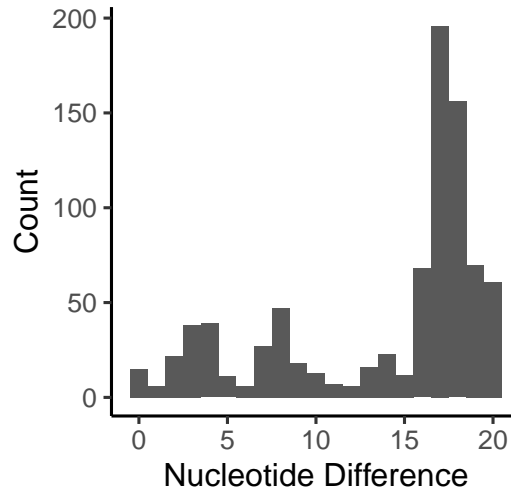
IGHV4-31*01

995 sequences assigned
196 (19.7%) exact matches, in which:
190 unique CDR3
6 unique J



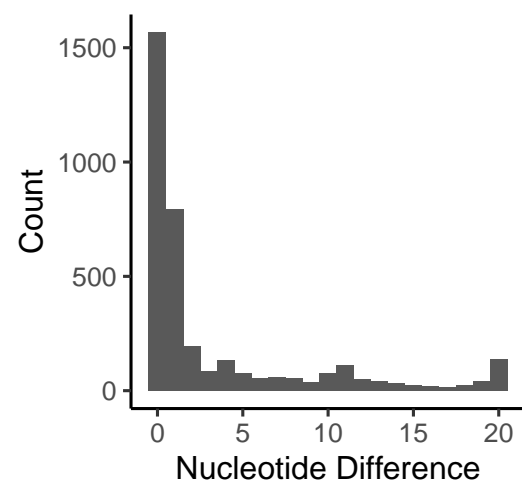
IGHV4-38-2*02

1146 sequences assigned
15 (1.3%) exact matches, in which:
15 unique CDR3
5 unique J



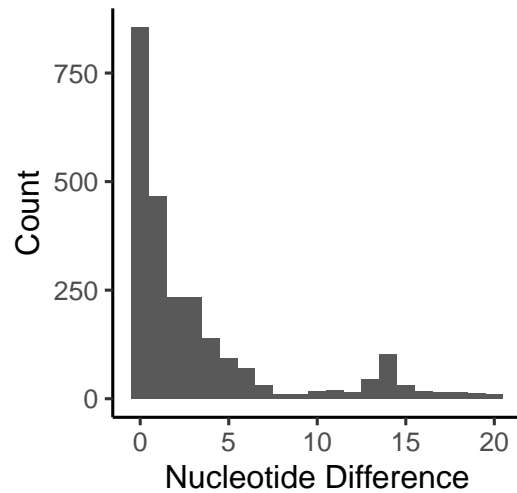
IGHV4-59*08

4347 sequences assigned
1567 (36%) exact matches, in which:
1414 unique CDR3
6 unique J



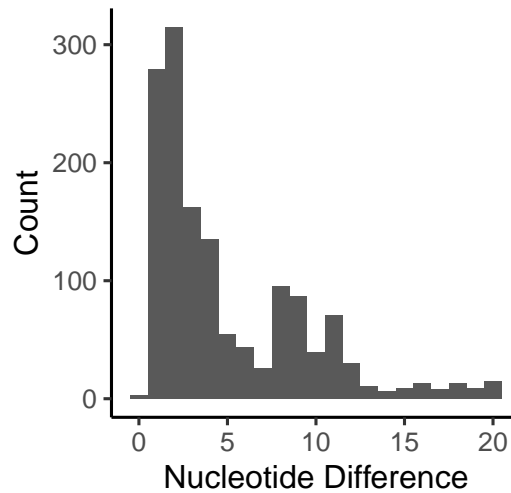
IGHV4-31*02

3315 sequences assigned
856 (25.8%) exact matches, in which:
785 unique CDR3
6 unique J



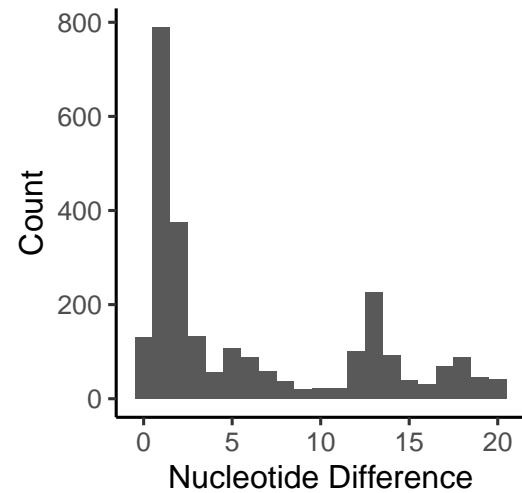
IGHV4-39*07

2471 sequences assigned
3 (0.1%) exact matches, in which:
3 unique CDR3
1 unique J



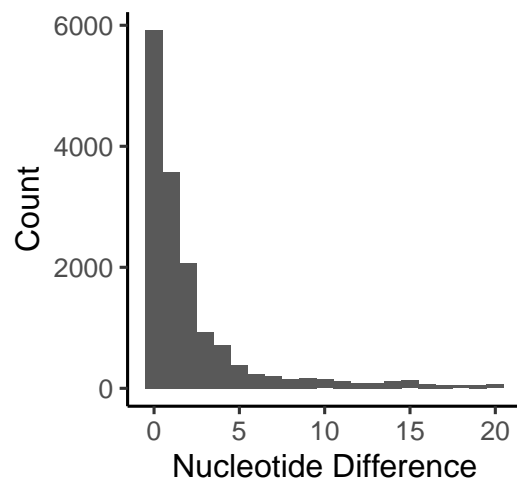
IGHV4-59*12

3121 sequences assigned
130 (4.2%) exact matches, in which:
130 unique CDR3
6 unique J



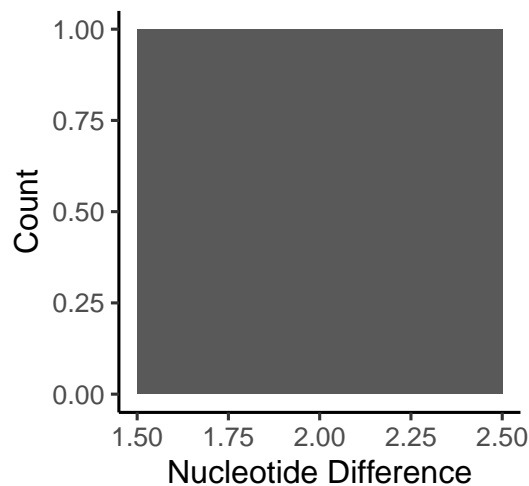
IGHV4-34*01_02

18295 sequences assigned
5921 (32.4%) exact matches, in which:
4867 unique CDR3
6 unique J



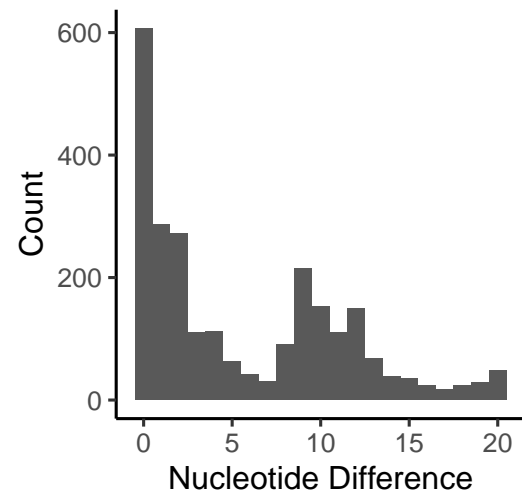
IGHV4-55*09

1 sequences assigned
No exact matches.



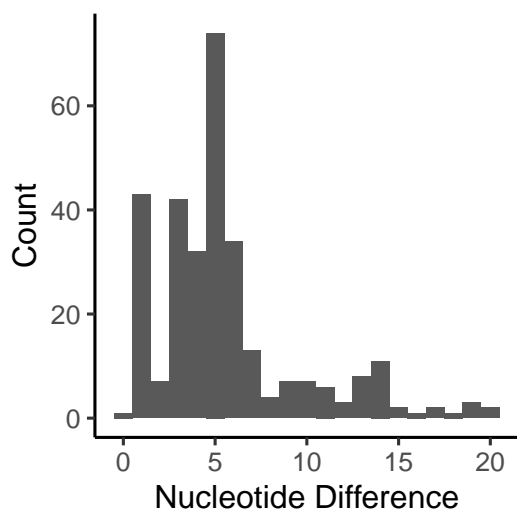
IGHV4-61*01

2769 sequences assigned
607 (21.9%) exact matches, in which:
576 unique CDR3
6 unique J



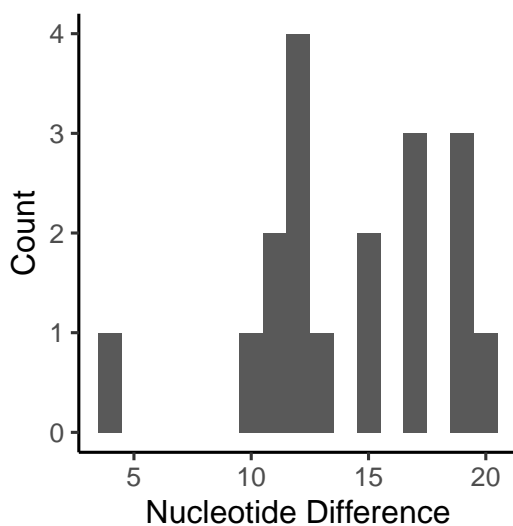
IGHV4-61*08

376 sequences assigned
1 (0.3%) exact matches, in which:
1 unique CDR3
1 unique J



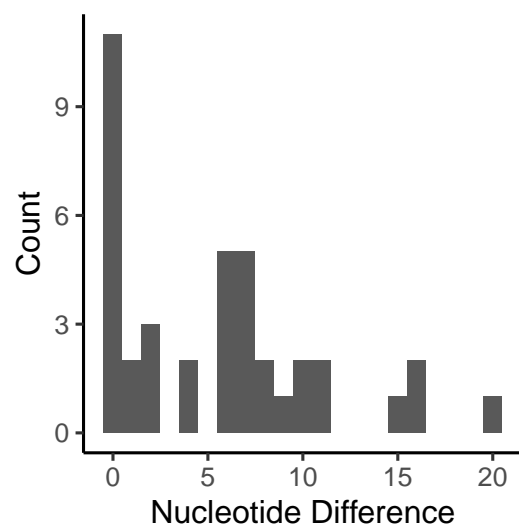
IGHV4/OR15-8*01

39 sequences assigned
No exact matches.



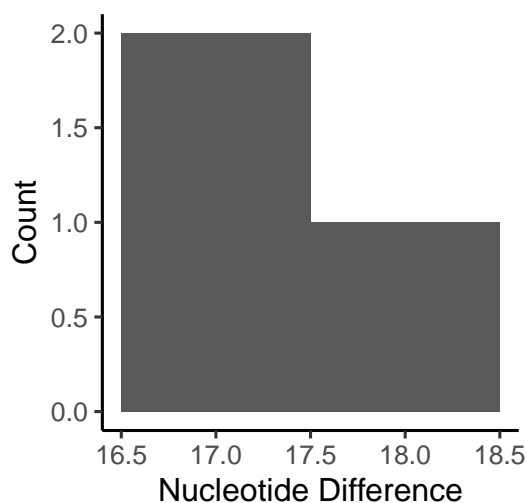
IGHV5-51*04

50 sequences assigned
11 (22%) exact matches, in which:
11 unique CDR3
5 unique J



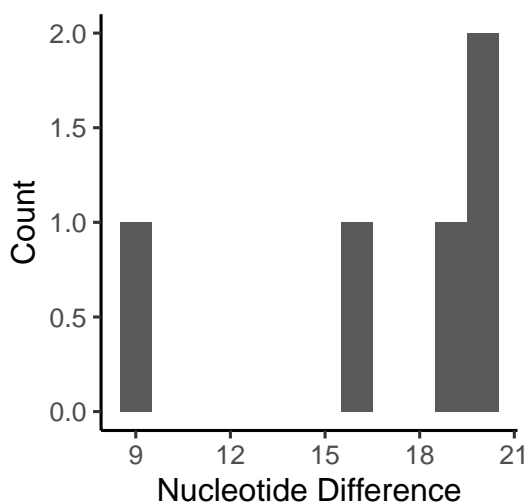
IGHV1/OR15-2*02_03

3 sequences assigned
No exact matches.



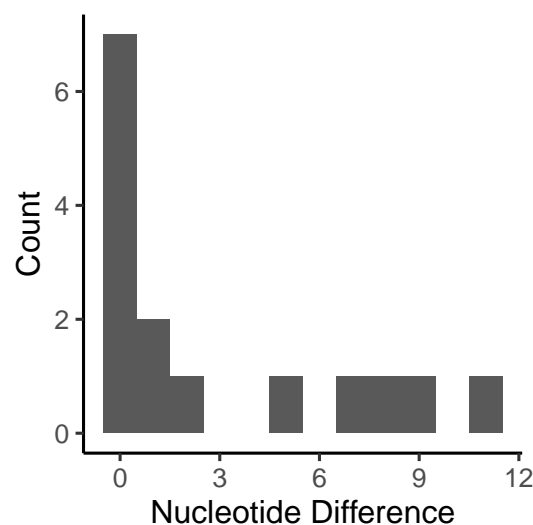
IGHV4/OR15-8*02

21 sequences assigned
No exact matches.



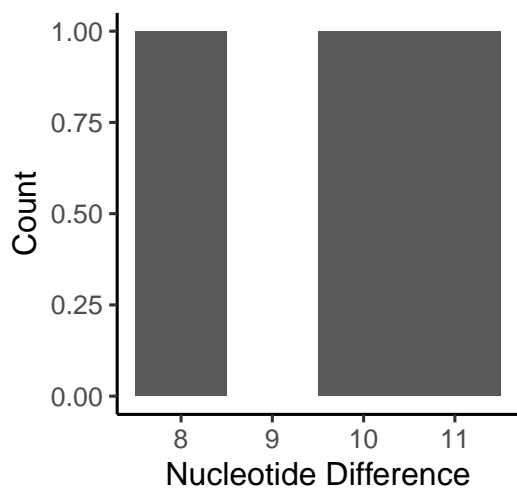
IGHV5-51*06

20 sequences assigned
7 (35%) exact matches, in which:
7 unique CDR3
3 unique J



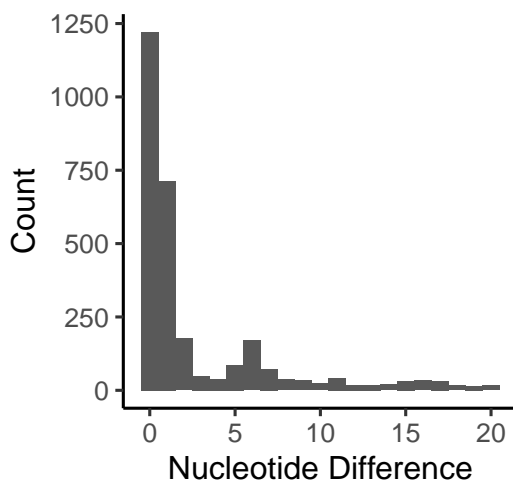
IGHV1/OR15-3*02

3 sequences assigned
No exact matches.



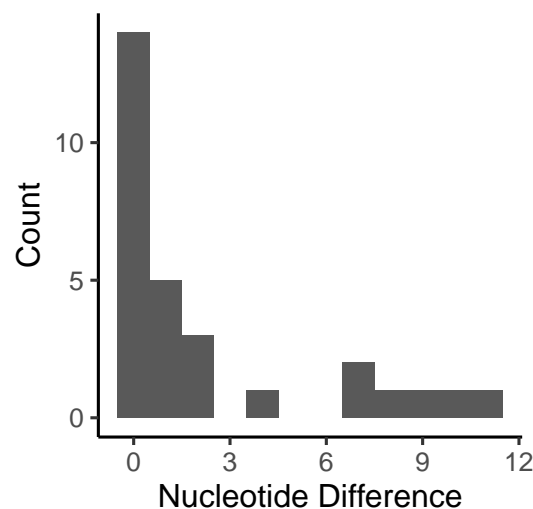
IGHV5-10-1*01_03

3894 sequences assigned
1221 (31.4%) exact matches, in which:
899 unique CDR3
6 unique J



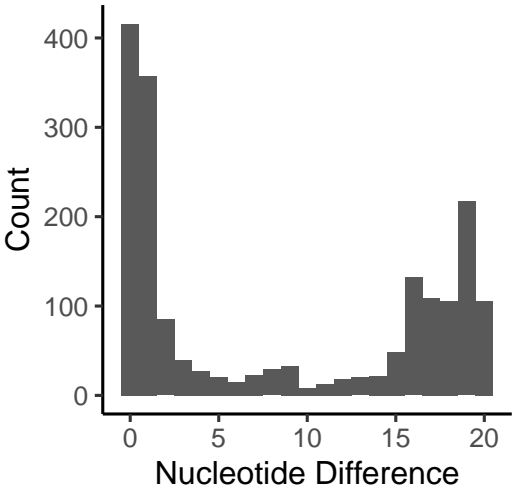
IGHV5-51*07

34 sequences assigned
14 (41.2%) exact matches, in which:
14 unique CDR3
4 unique J



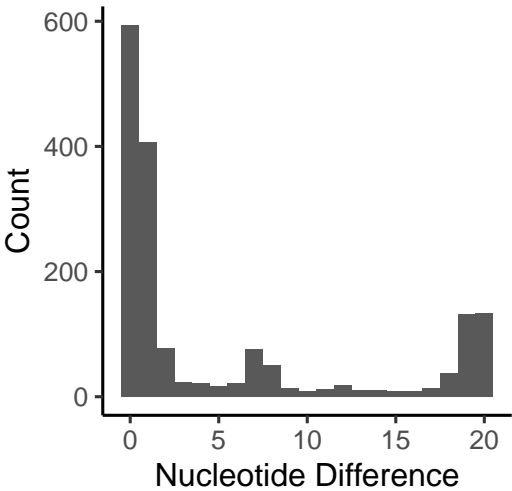
IGHV6-1*01_02

3372 sequences assigned
416 (12.3%) exact matches, in which:
389 unique CDR3
6 unique J



IGHV7-4-1*02

1892 sequences assigned
594 (31.4%) exact matches, in which:
550 unique CDR3
6 unique J





Warning – no inferred sequences found.