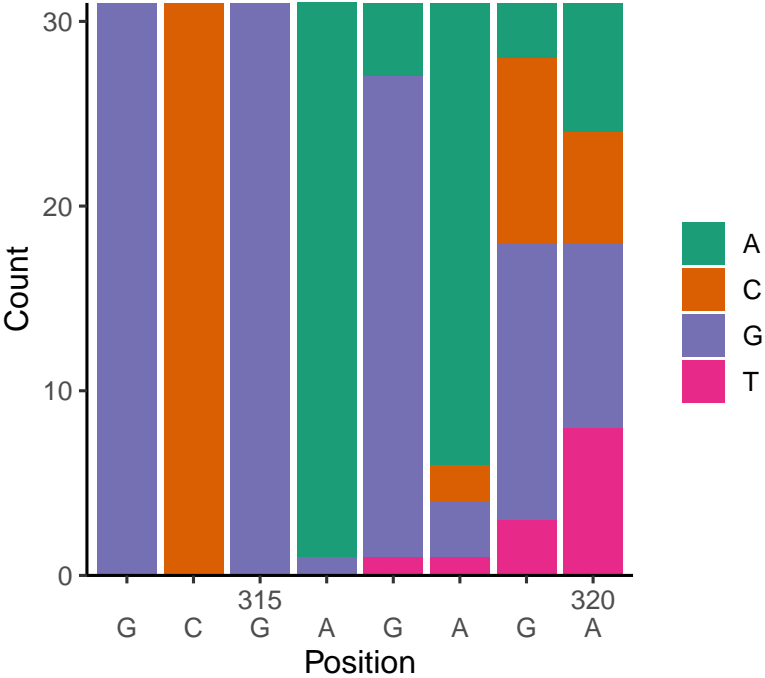
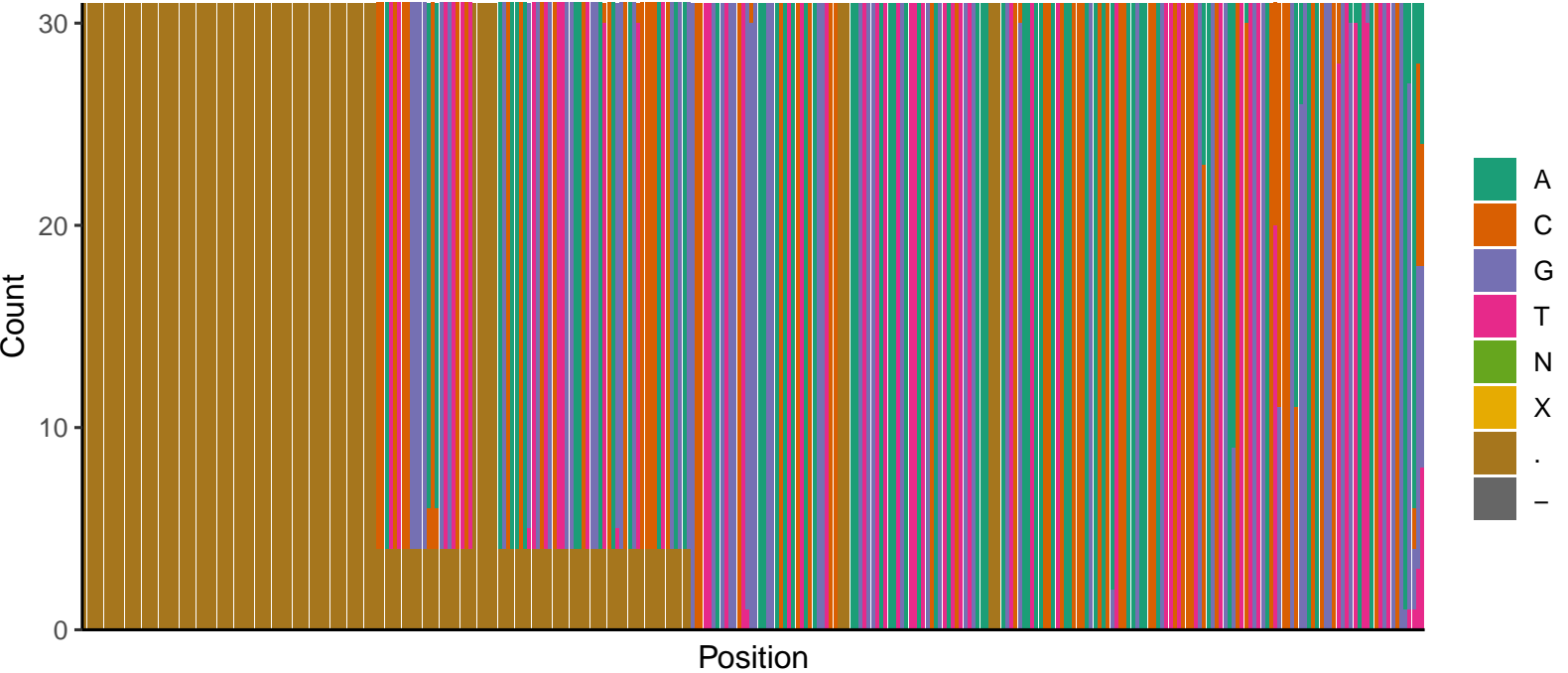


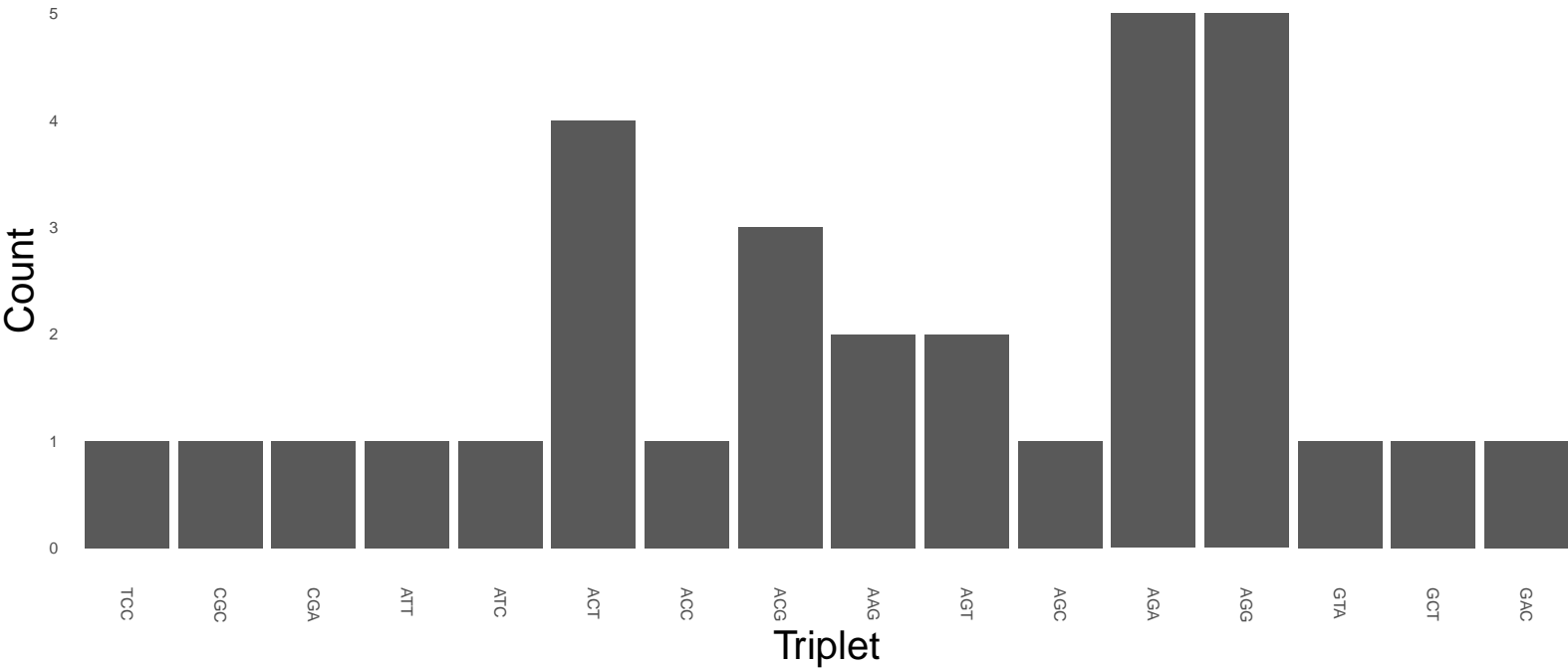
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

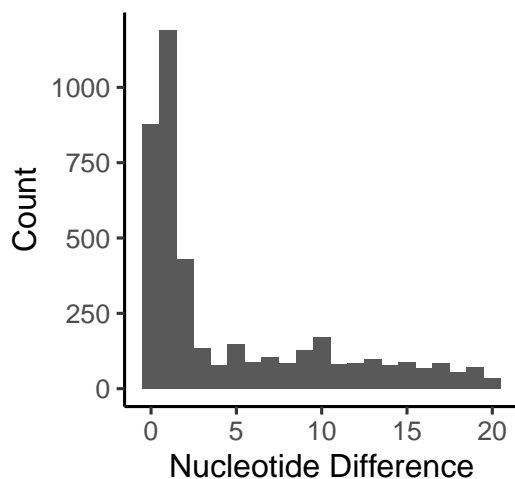


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



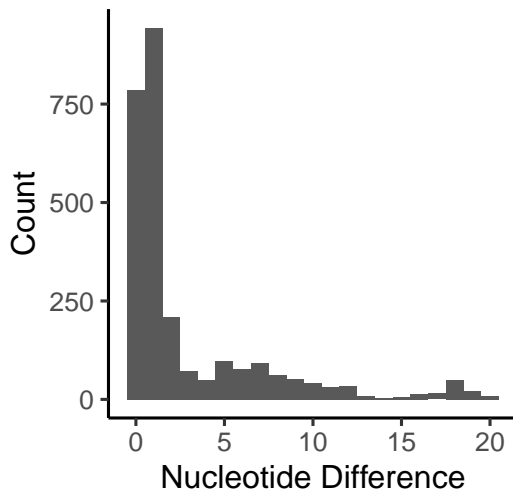
IGHV1-2*02

4322 sequences assigned
879 (20.3%) exact matches, in which:
693 unique CDR3
6 unique J



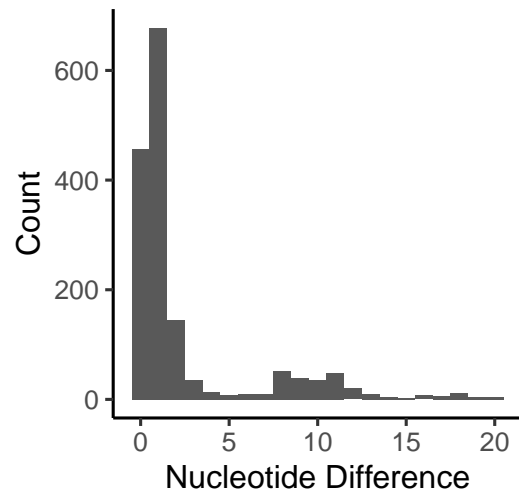
IGHV1-8*01

2782 sequences assigned
786 (28.3%) exact matches, in which:
646 unique CDR3
6 unique J



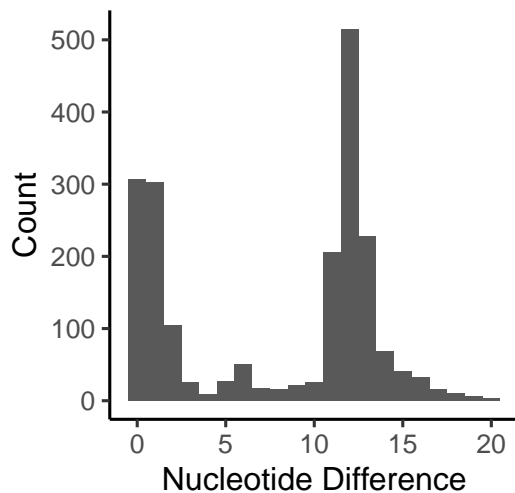
IGHV1-24*01

1604 sequences assigned
456 (28.4%) exact matches, in which:
374 unique CDR3
6 unique J



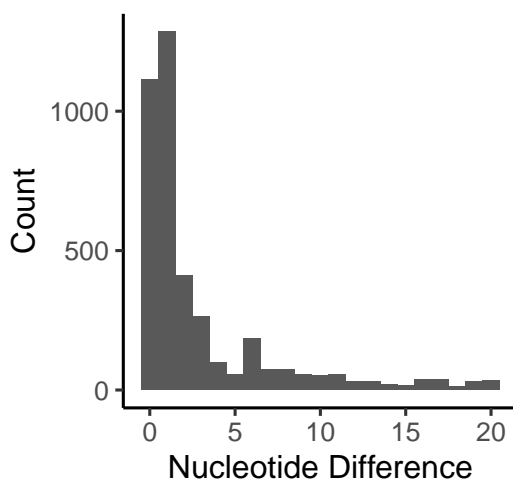
IGHV1-2*04

2039 sequences assigned
307 (15.1%) exact matches, in which:
254 unique CDR3
6 unique J



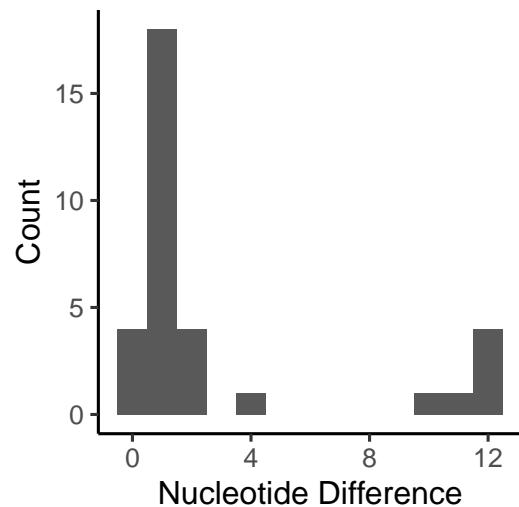
IGHV1-18*01

4191 sequences assigned
1113 (26.6%) exact matches, in which:
893 unique CDR3
6 unique J



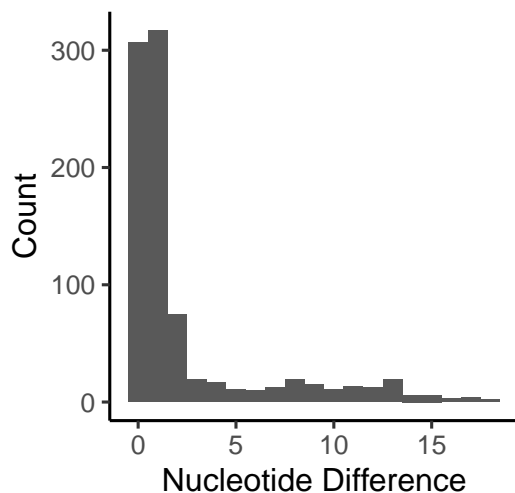
IGHV1-45*02

33 sequences assigned
4 (12.1%) exact matches, in which:
4 unique CDR3
2 unique J



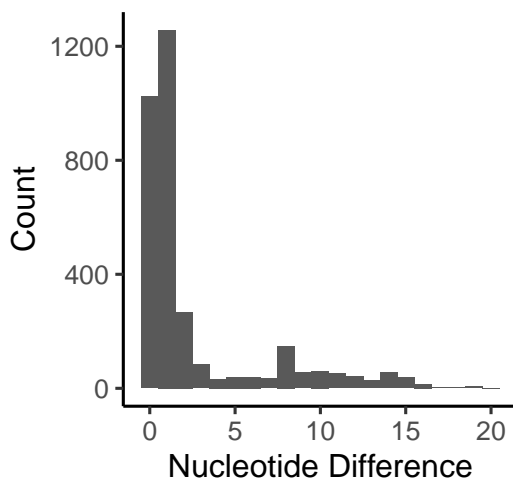
IGHV1-3*01_05

904 sequences assigned
307 (34%) exact matches, in which:
248 unique CDR3
5 unique J



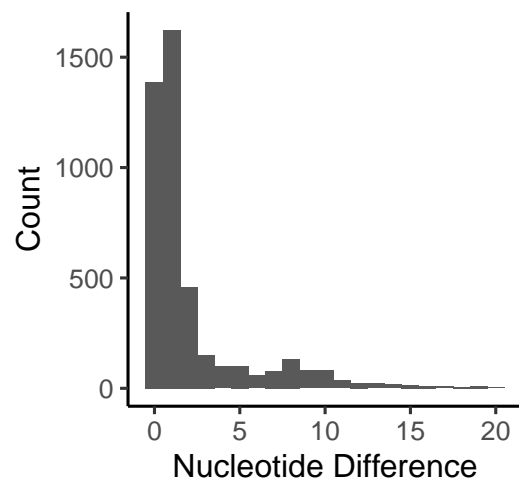
IGHV1-18*04

3570 sequences assigned
1024 (28.7%) exact matches, in which:
827 unique CDR3
6 unique J



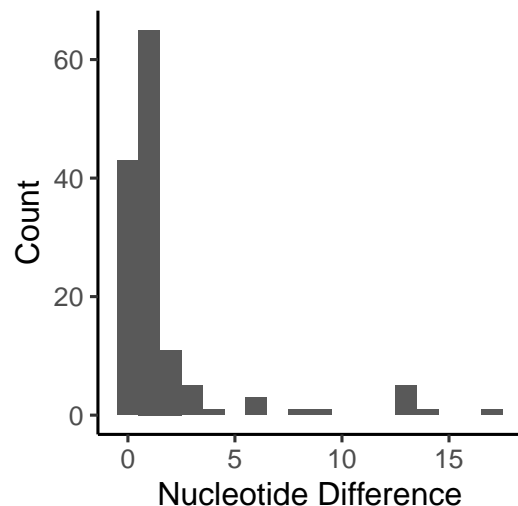
IGHV1-46*01

4565 sequences assigned
1387 (30.4%) exact matches, in which:
1128 unique CDR3
6 unique J



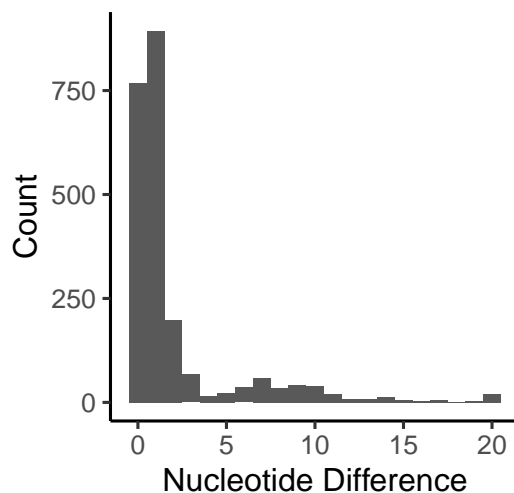
IGHV1-58*02

137 sequences assigned
43 (31.4%) exact matches, in which:
38 unique CDR3
5 unique J



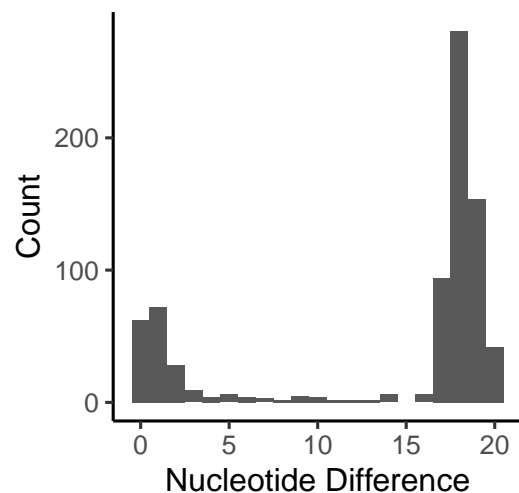
IGHV1-69*04_09

2336 sequences assigned
769 (32.9%) exact matches, in which:
666 unique CDR3
6 unique J



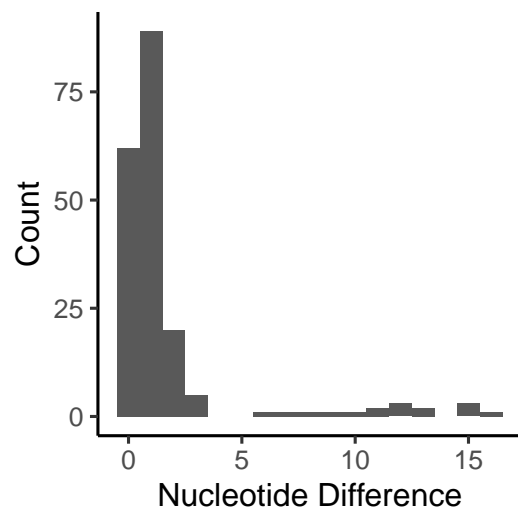
IGHV2-5*02

857 sequences assigned
62 (7.2%) exact matches, in which:
50 unique CDR3
5 unique J



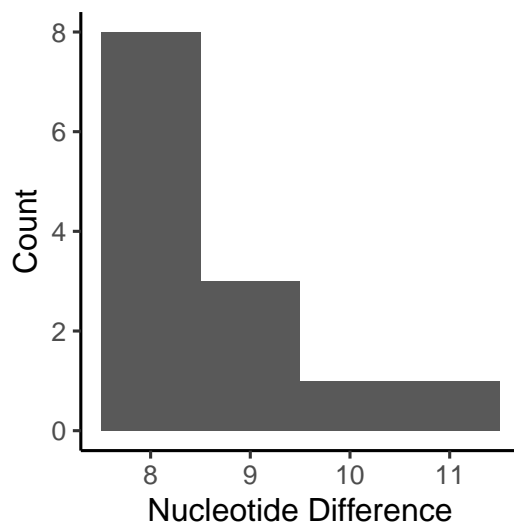
IGHV1-58*01_03

192 sequences assigned
62 (32.3%) exact matches, in which:
46 unique CDR3
5 unique J



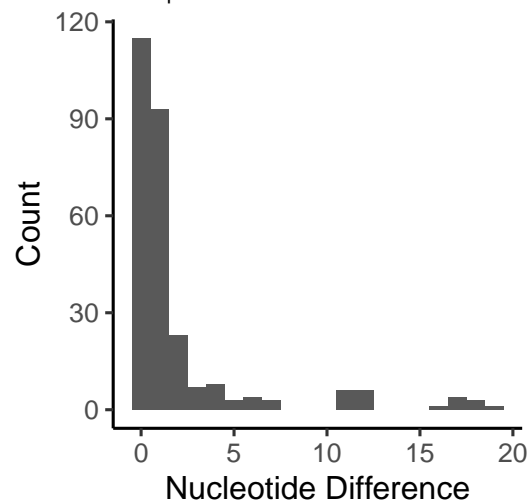
IGHV1-NL1*01

13 sequences assigned
No exact matches.



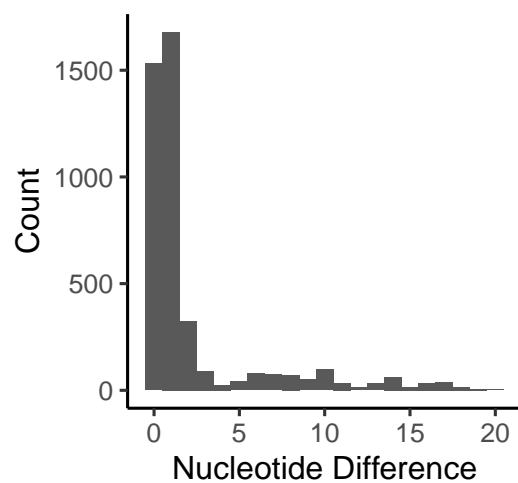
IGHV2-26*01

278 sequences assigned
115 (41.4%) exact matches, in which:
98 unique CDR3
5 unique J



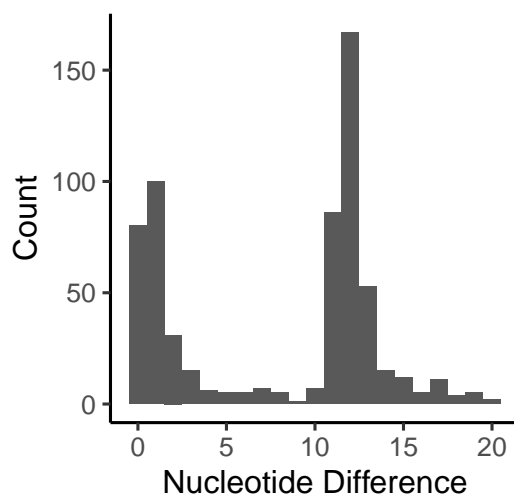
IGHV1-69*01_12_13

4408 sequences assigned
1531 (34.7%) exact matches, in which:
1302 unique CDR3
6 unique J



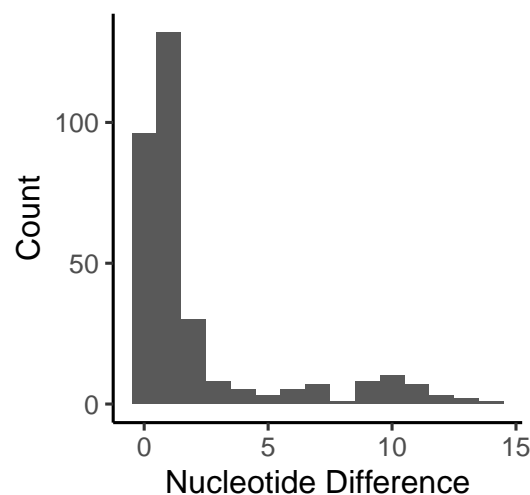
IGHV2-5*01

976 sequences assigned
80 (8.2%) exact matches, in which:
63 unique CDR3
6 unique J



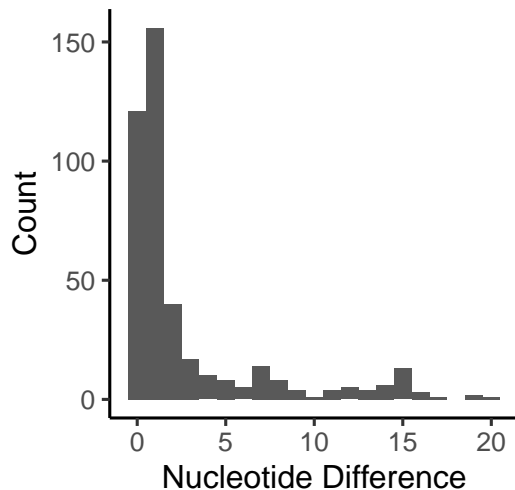
IGHV2-70*01

318 sequences assigned
96 (30.2%) exact matches, in which:
75 unique CDR3
5 unique J



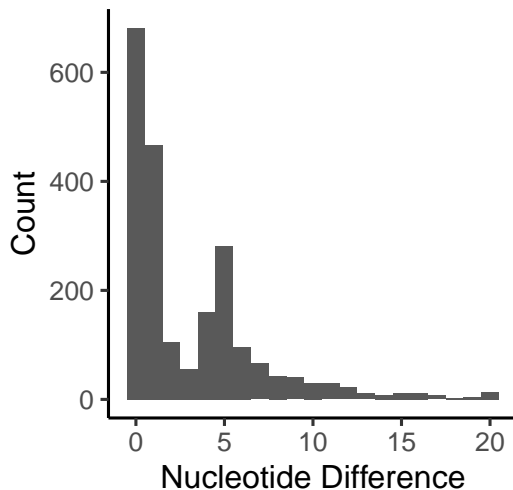
IGHV2–70*11_15

442 sequences assigned
121 (27.4%) exact matches, in which:
96 unique CDR3
5 unique J



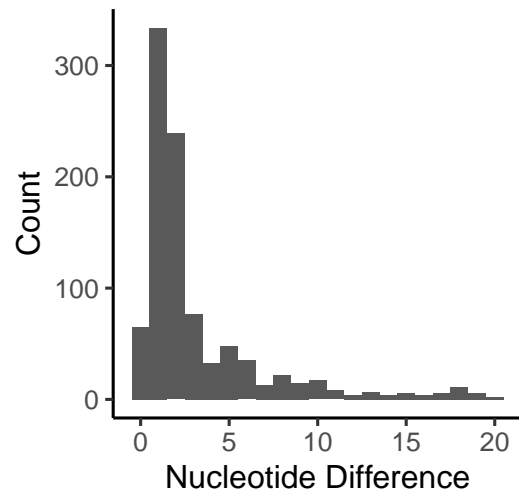
IGHV3–9*01

2226 sequences assigned
682 (30.6%) exact matches, in which:
407 unique CDR3
6 unique J



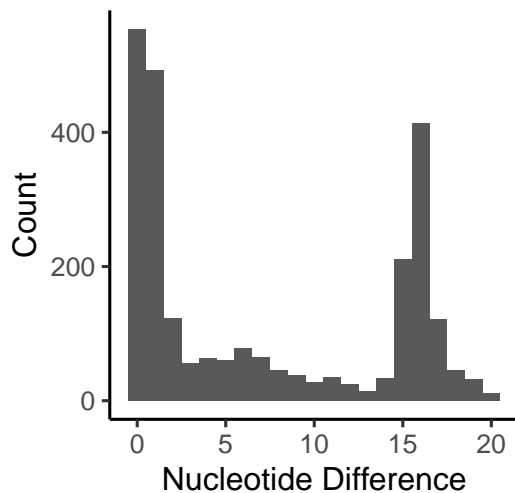
IGHV3–11*06

1001 sequences assigned
65 (6.5%) exact matches, in which:
64 unique CDR3
6 unique J



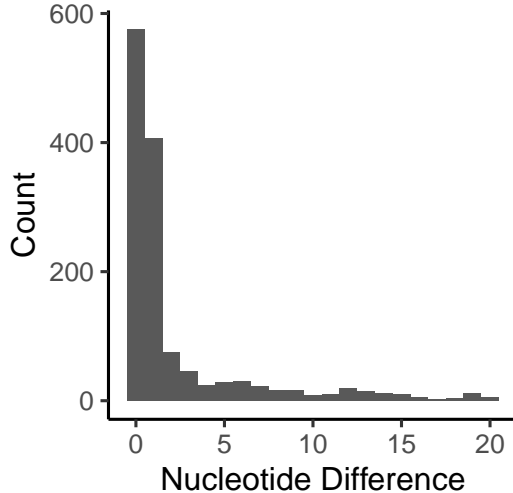
IGHV3–7*01

2651 sequences assigned
554 (20.9%) exact matches, in which:
350 unique CDR3
6 unique J



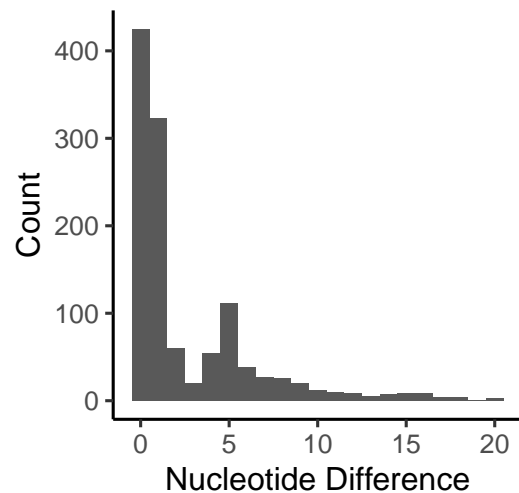
IGHV3–11*01

1361 sequences assigned
576 (42.3%) exact matches, in which:
353 unique CDR3
6 unique J



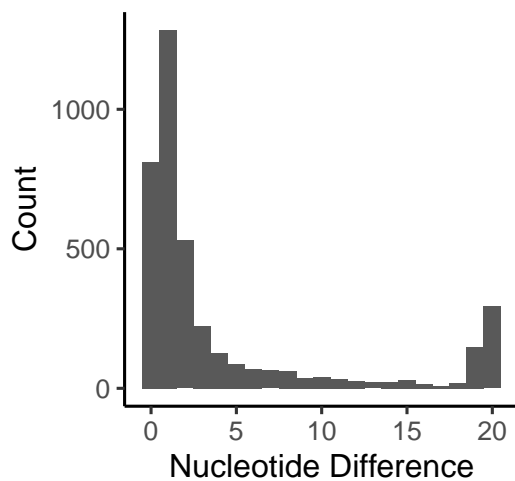
IGHV3–11*03_05

1200 sequences assigned
425 (35.4%) exact matches, in which:
255 unique CDR3
6 unique J



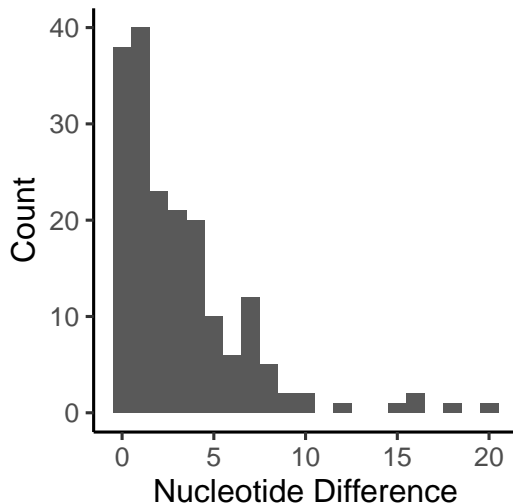
IGHV3–7*03

5161 sequences assigned
810 (15.7%) exact matches, in which:
446 unique CDR3
6 unique J



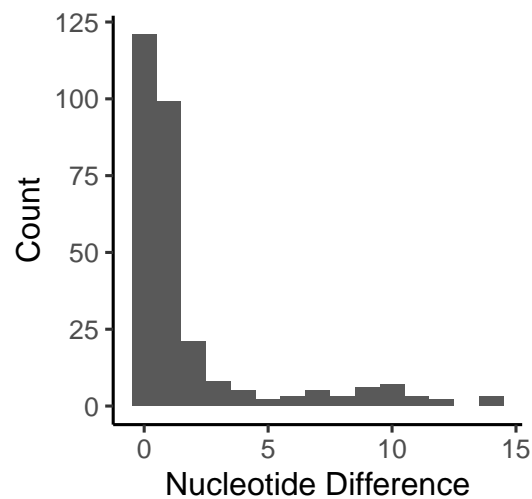
IGHV3–11*04

189 sequences assigned
38 (20.1%) exact matches, in which:
37 unique CDR3
6 unique J



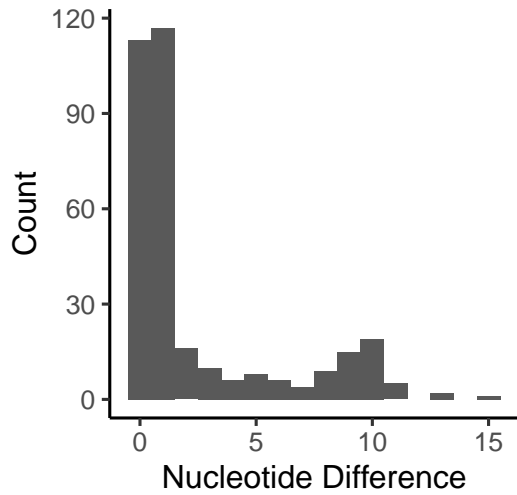
IGHV3–13*01

309 sequences assigned
121 (39.2%) exact matches, in which:
71 unique CDR3
5 unique J



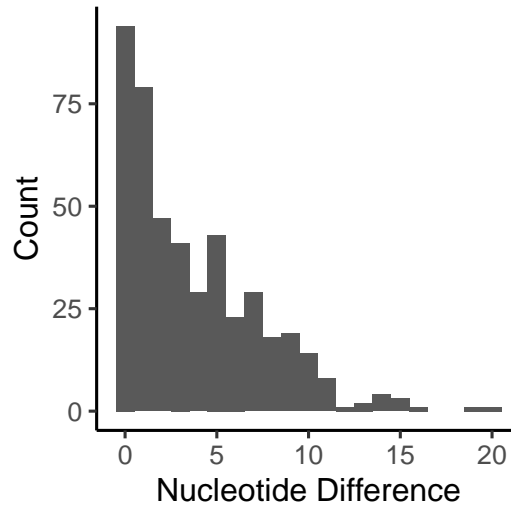
IGHV3-13*04

331 sequences assigned
113 (34.1%) exact matches, in which:
68 unique CDR3
6 unique J



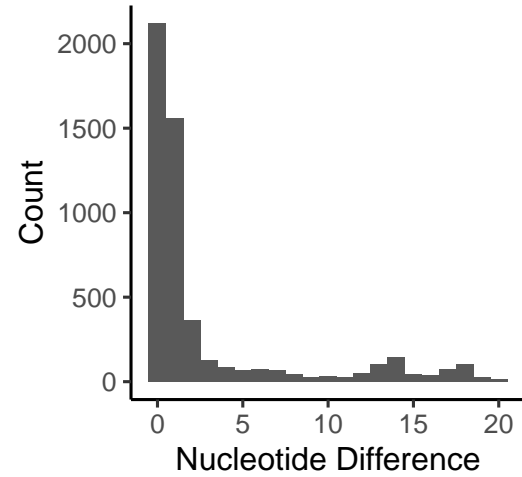
IGHV3-21*04

465 sequences assigned
94 (20.2%) exact matches, in which:
90 unique CDR3
6 unique J



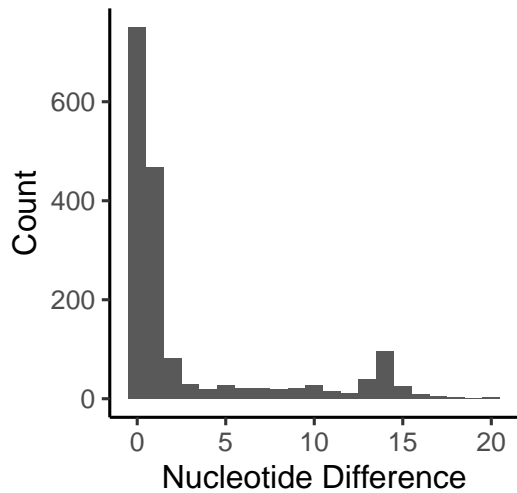
IGHV3-30-3*01

5319 sequences assigned
2120 (39.9%) exact matches, in which:
1213 unique CDR3
6 unique J



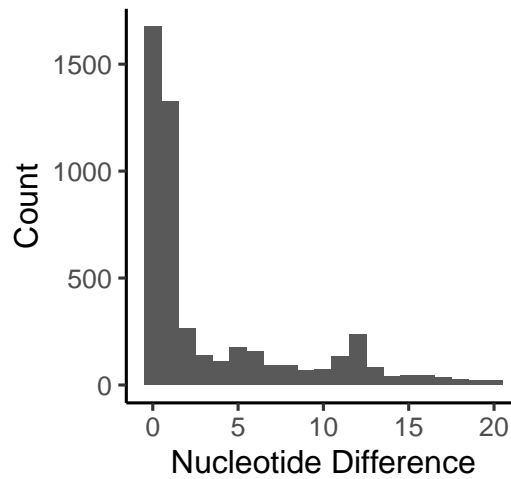
IGHV3-15*01_02

2588 sequences assigned
751 (29%) exact matches, in which:
419 unique CDR3
6 unique J



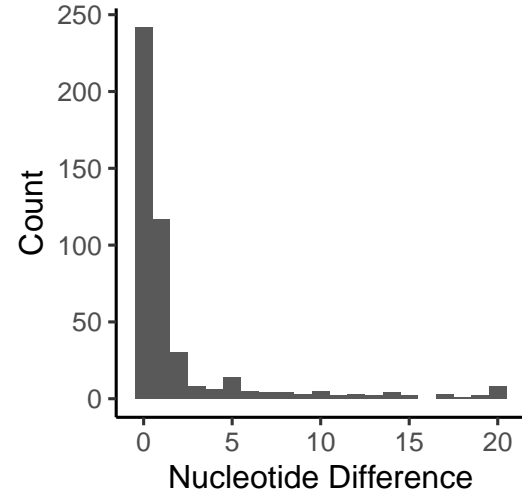
IGHV3-21*01_02

5080 sequences assigned
1675 (33%) exact matches, in which:
957 unique CDR3
6 unique J



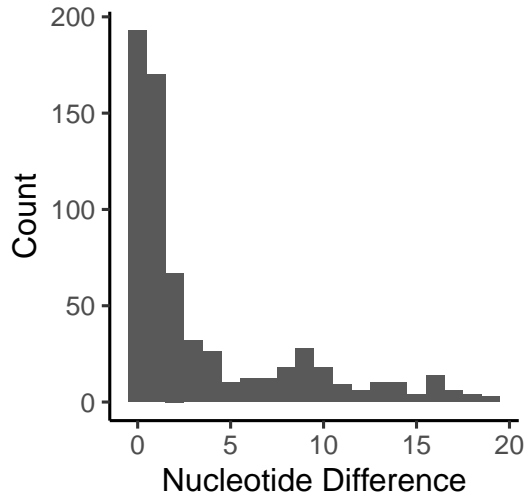
IGHV3-30*03

950 sequences assigned
242 (25.5%) exact matches, in which:
226 unique CDR3
6 unique J



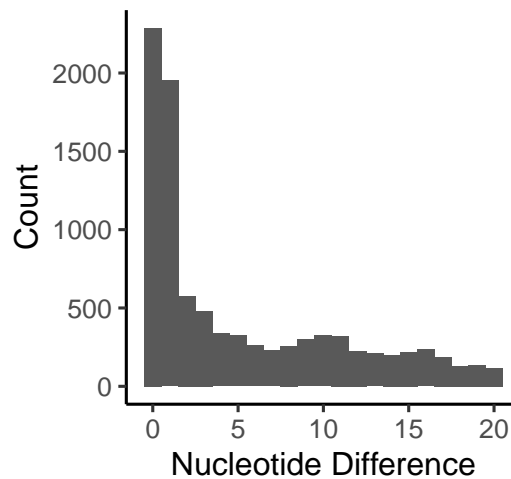
IGHV3-20*03_04

682 sequences assigned
193 (28.3%) exact matches, in which:
101 unique CDR3
5 unique J



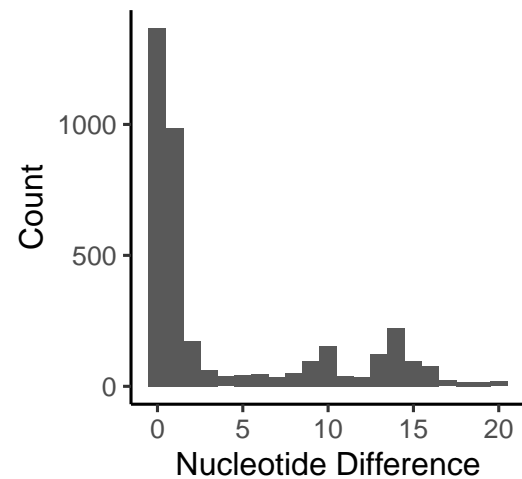
IGHV3-23*01_04

10477 sequences assigned
2287 (21.8%) exact matches, in which:
1270 unique CDR3
6 unique J



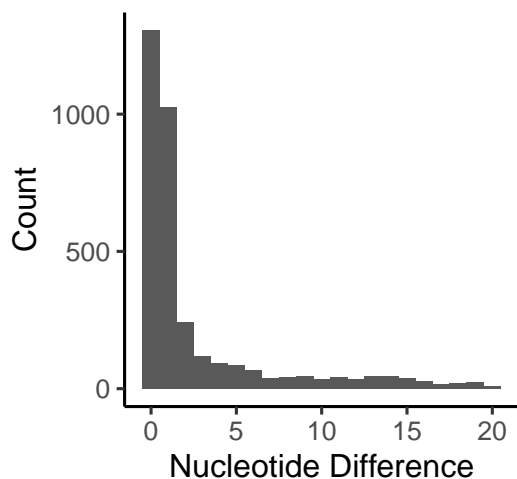
IGHV3-30*18

3892 sequences assigned
1368 (35.1%) exact matches, in which:
759 unique CDR3
6 unique J



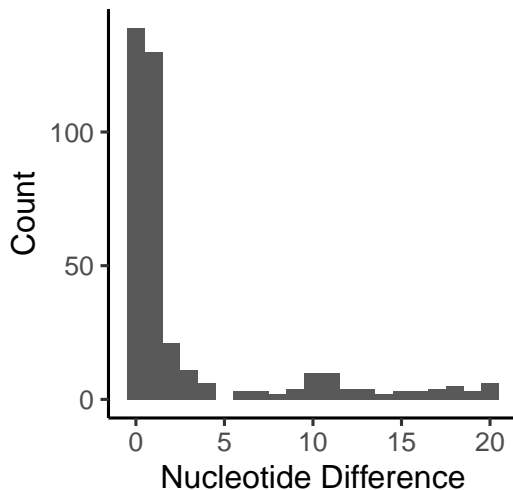
IGHV3-33*01

3469 sequences assigned
1305 (37.6%) exact matches, in which:
771 unique CDR3
6 unique J



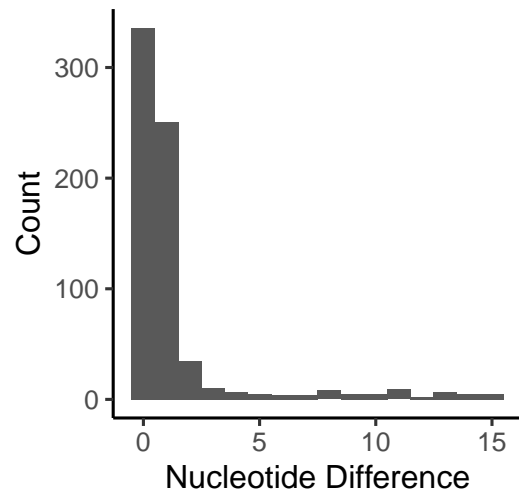
IGHV3-43*01

390 sequences assigned
139 (35.6%) exact matches, in which:
72 unique CDR3
5 unique J



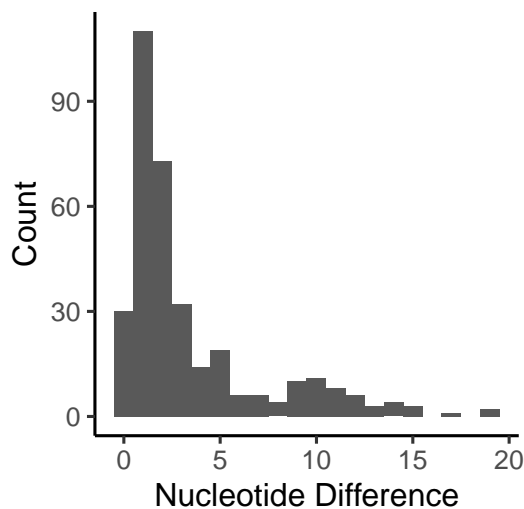
IGHV3-49*03_05

699 sequences assigned
336 (48.1%) exact matches, in which:
195 unique CDR3
6 unique J



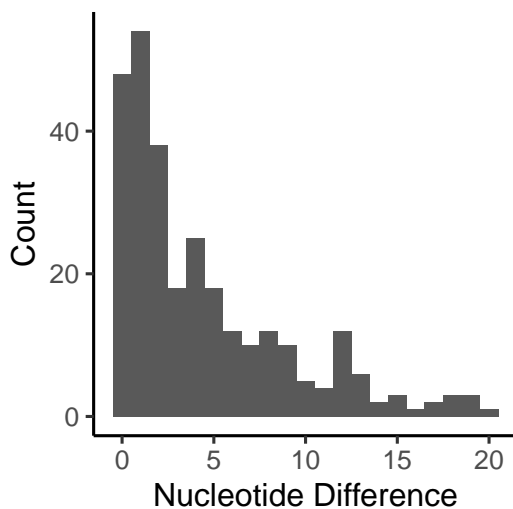
IGHV3-33*06

342 sequences assigned
30 (8.8%) exact matches, in which:
29 unique CDR3
5 unique J



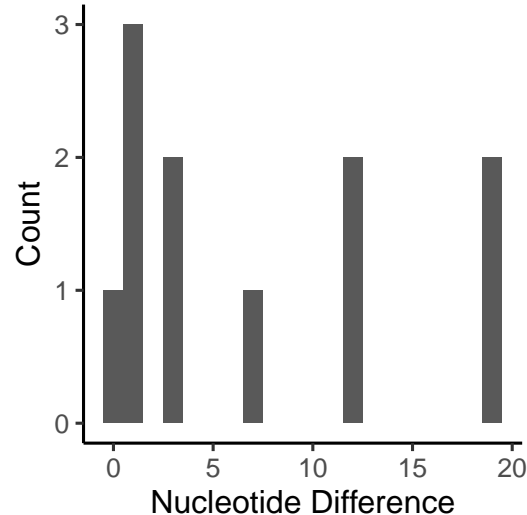
IGHV3-48*01

292 sequences assigned
48 (16.4%) exact matches, in which:
47 unique CDR3
4 unique J



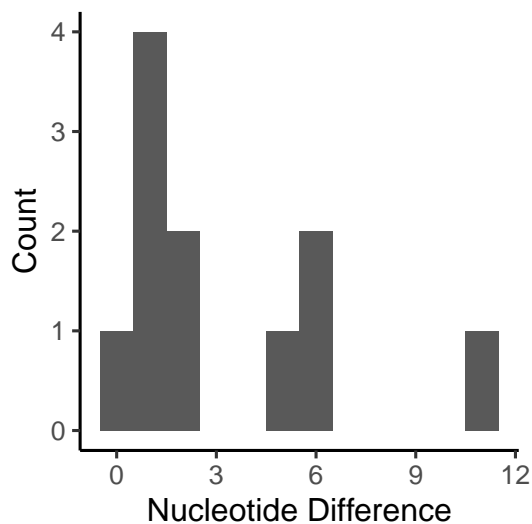
IGHV3-53*05

14 sequences assigned
1 (7.1%) exact matches, in which:
1 unique CDR3
1 unique J



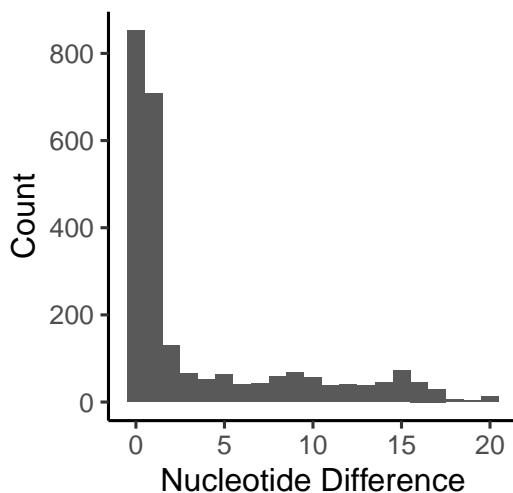
IGHV3-38-3*01

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



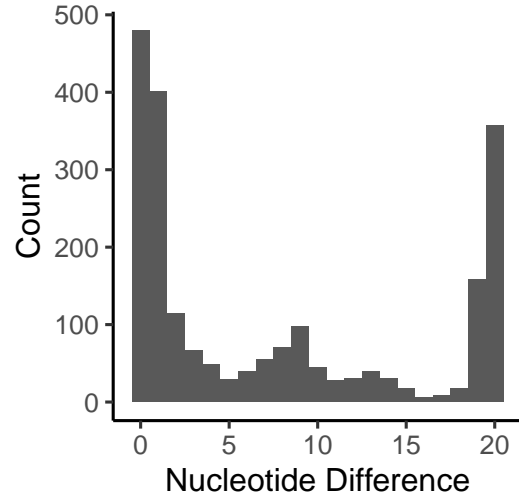
IGHV3-48*02

2595 sequences assigned
853 (32.9%) exact matches, in which:
462 unique CDR3
6 unique J



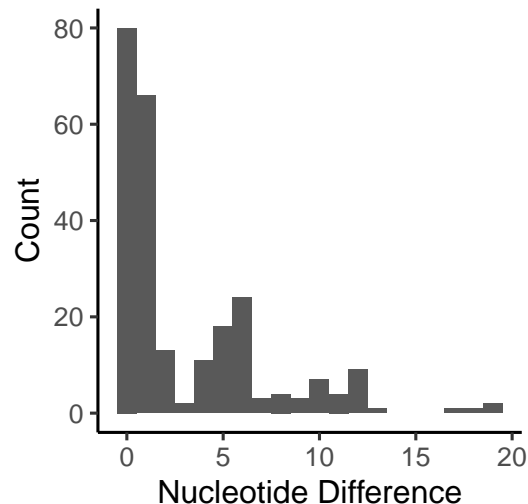
IGHV3-53*01_02

2706 sequences assigned
480 (17.7%) exact matches, in which:
295 unique CDR3
6 unique J



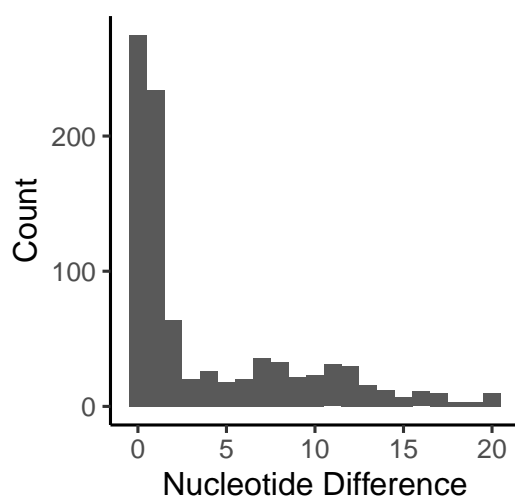
IGHV3-64*01

251 sequences assigned
80 (31.9%) exact matches, in which:
52 unique CDR3
5 unique J



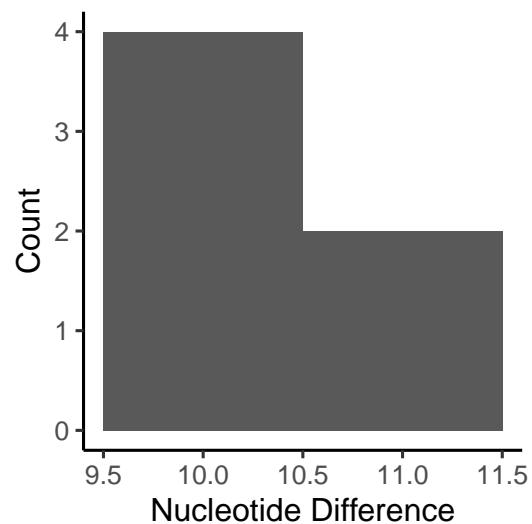
IGHV3-66*01

911 sequences assigned
275 (30.2%) exact matches, in which:
165 unique CDR3
5 unique J



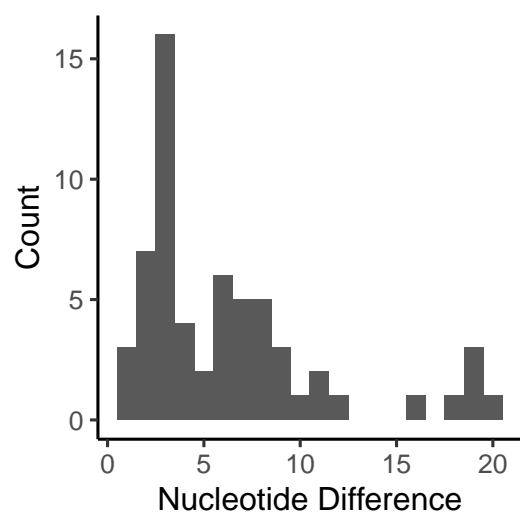
IGHV3-69-1*02

6 sequences assigned
No exact matches.



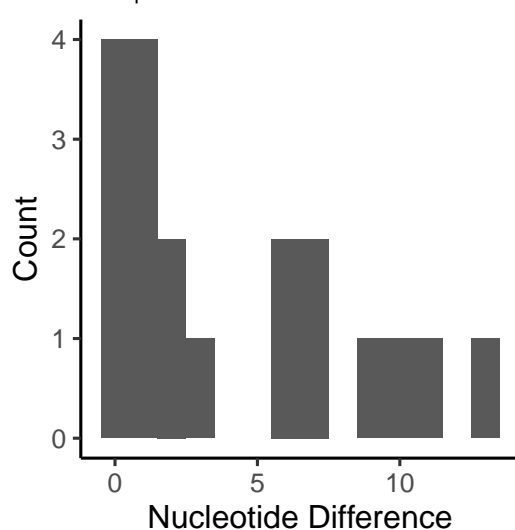
IGHV3-64*04

82 sequences assigned
No exact matches.



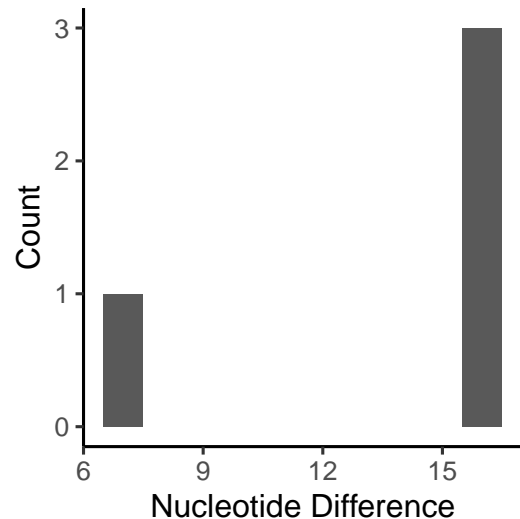
IGHV3-66*03

24 sequences assigned
4 (16.7%) exact matches, in which:
4 unique CDR3
3 unique J



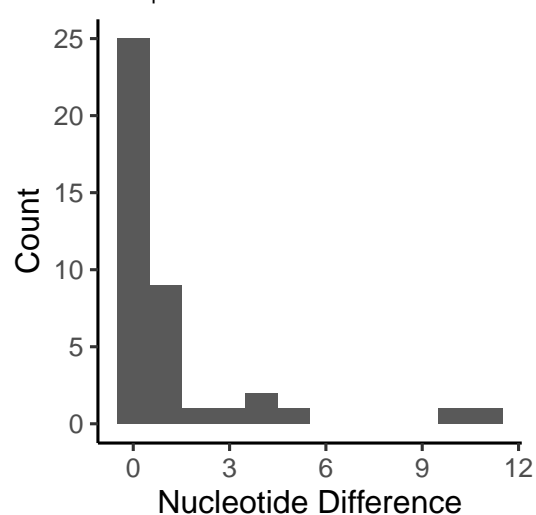
IGHV3-71*01_04

4 sequences assigned
No exact matches.



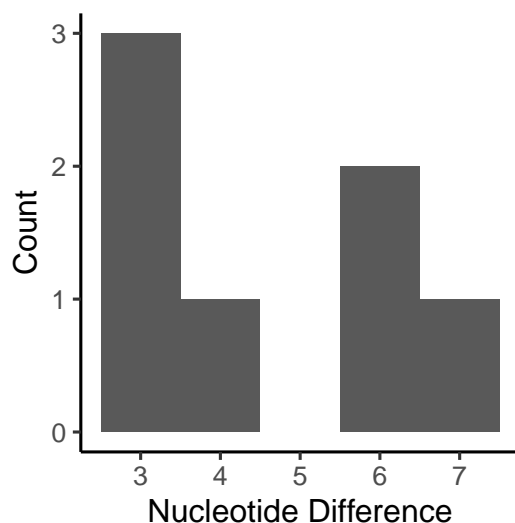
IGHV3-64*02_07

41 sequences assigned
25 (61%) exact matches, in which:
14 unique CDR3
3 unique J



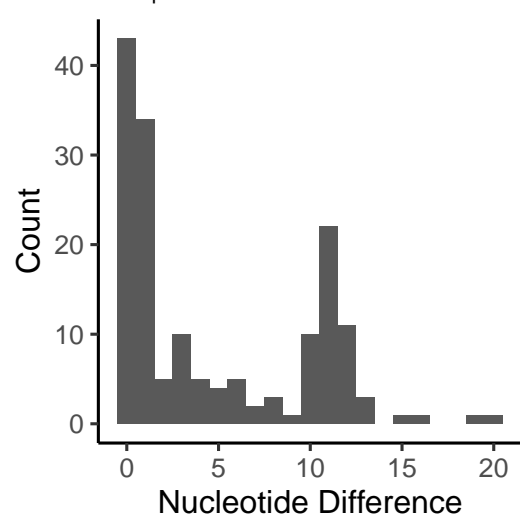
IGHV3-69-1*01

8 sequences assigned
No exact matches.



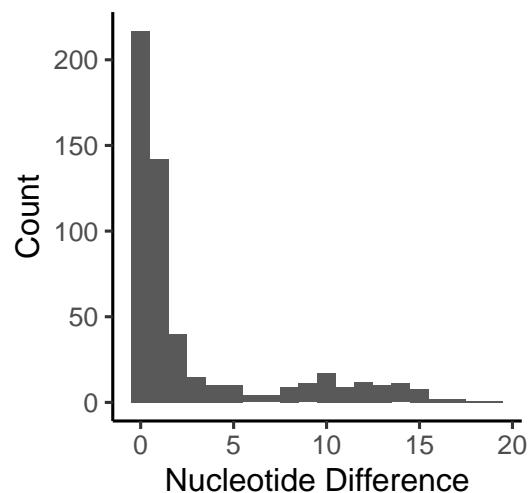
IGHV3-72*01

176 sequences assigned
43 (24.4%) exact matches, in which:
26 unique CDR3
3 unique J



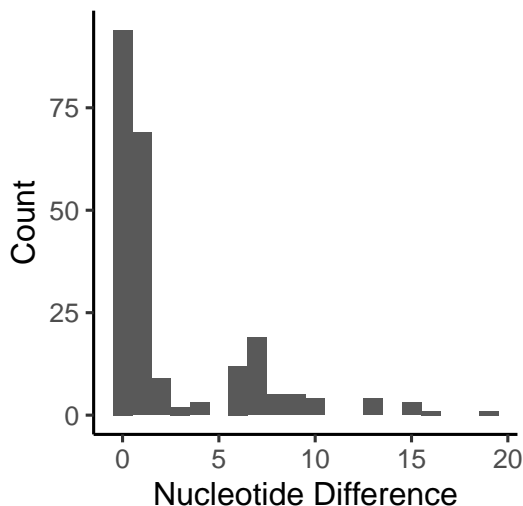
IGHV3-73*01_02

536 sequences assigned
217 (40.5%) exact matches, in which:
121 unique CDR3
5 unique J



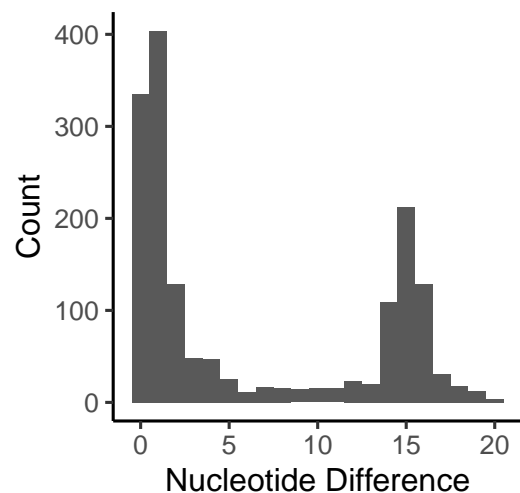
IGHV3-43D*03

231 sequences assigned
94 (40.7%) exact matches, in which:
52 unique CDR3
4 unique J



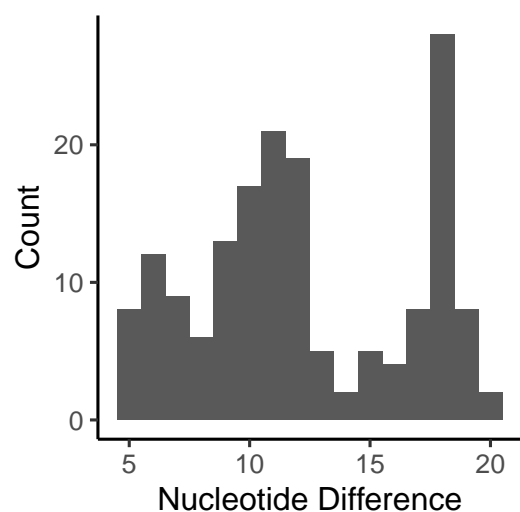
IGHV4-4*07

2219 sequences assigned
335 (15.1%) exact matches, in which:
275 unique CDR3
5 unique J



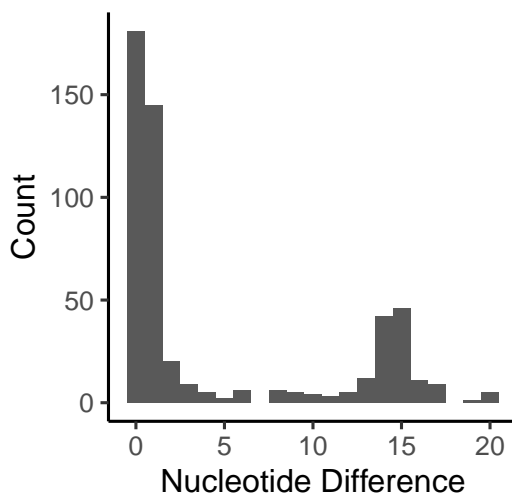
IGHV3-74*03

311 sequences assigned
No exact matches.



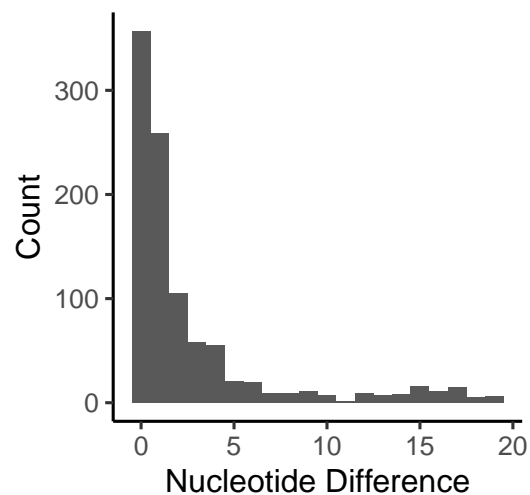
IGHV3-64D*06

769 sequences assigned
181 (23.5%) exact matches, in which:
99 unique CDR3
5 unique J



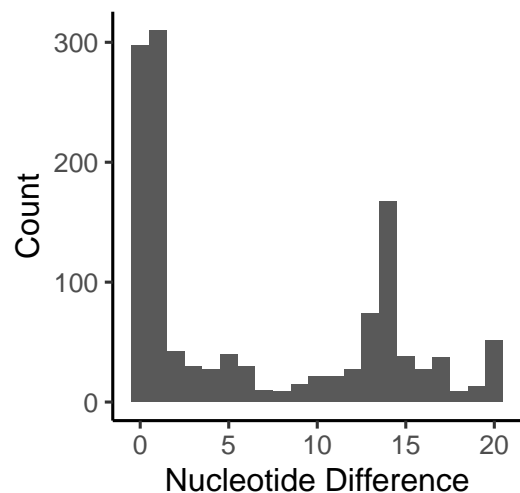
IGHV4-4*02_03

1044 sequences assigned
357 (34.2%) exact matches, in which:
273 unique CDR3
6 unique J



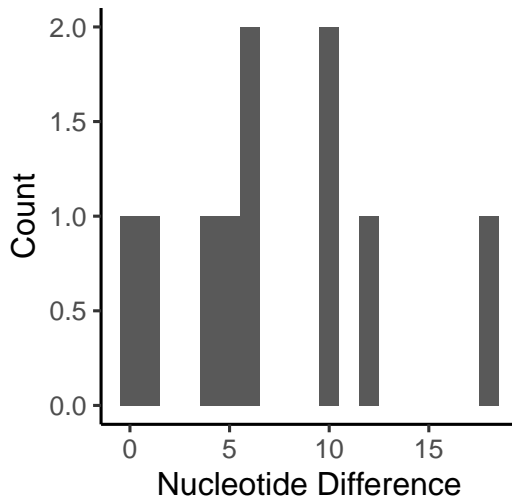
IGHV3-74*01_02

1424 sequences assigned
297 (20.9%) exact matches, in which:
154 unique CDR3
6 unique J



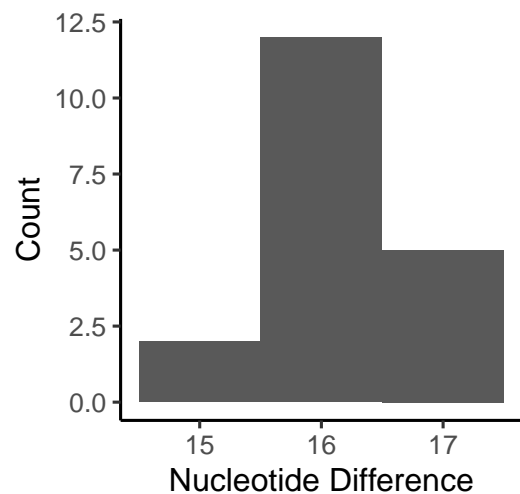
IGHV3-NL1*01

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



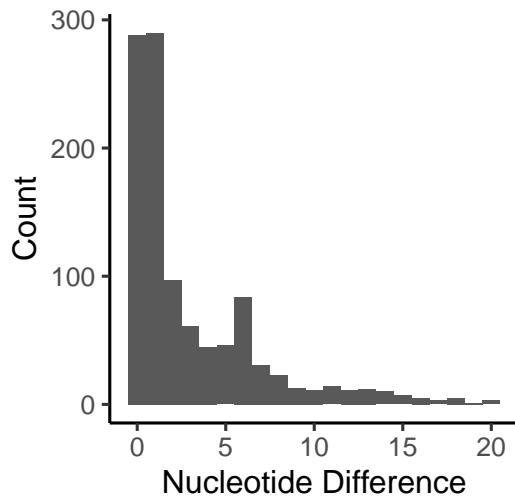
IGHV4-28*02_05

19 sequences assigned
No exact matches.



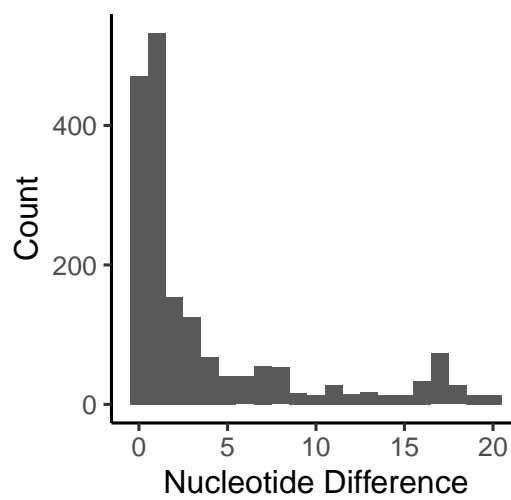
IGHV4-30-4*01

1149 sequences assigned
288 (25.1%) exact matches, in which:
226 unique CDR3
6 unique J



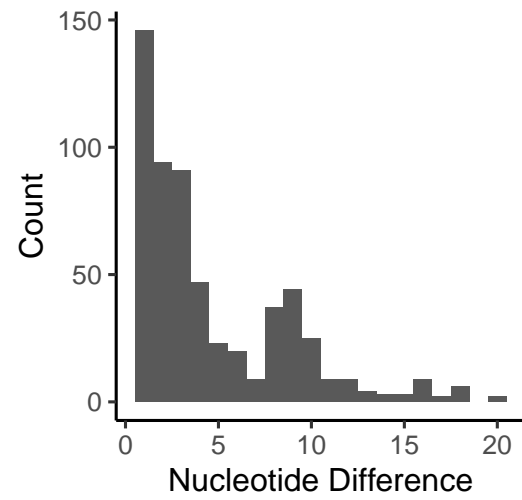
IGHV4-31*02

2101 sequences assigned
471 (22.4%) exact matches, in which:
399 unique CDR3
6 unique J



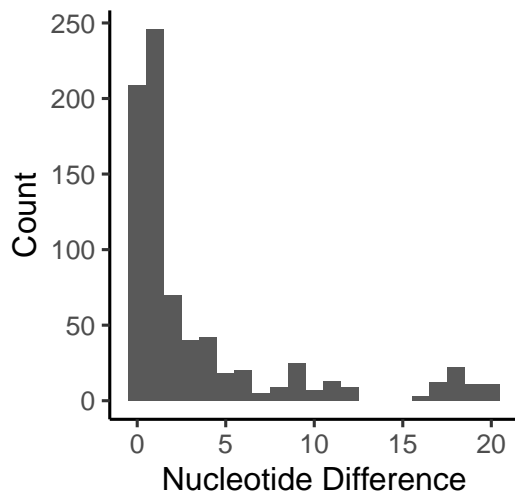
IGHV4-39*07

592 sequences assigned
No exact matches.



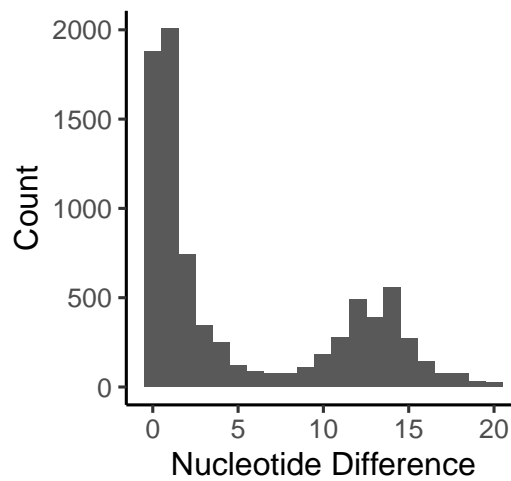
IGHV4-30-2*01

903 sequences assigned
209 (23.1%) exact matches, in which:
142 unique CDR3
6 unique J



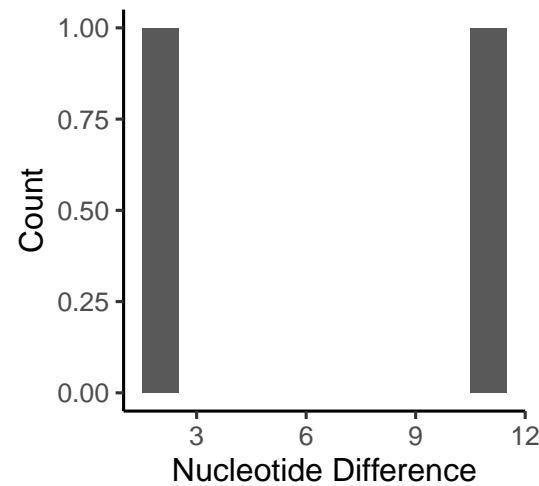
IGHV4-34*01_02

9080 sequences assigned
1880 (20.7%) exact matches, in which:
1298 unique CDR3
6 unique J



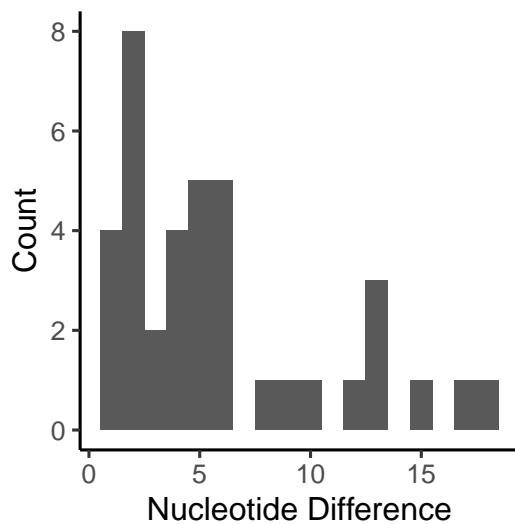
IGHV4-55*09

2 sequences assigned
No exact matches.



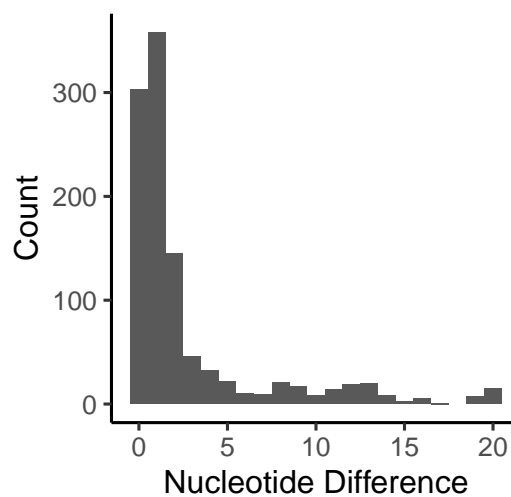
IGHV4-30-2*03

39 sequences assigned
No exact matches.



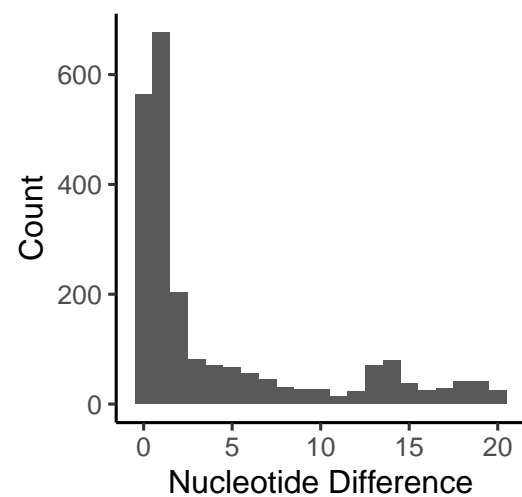
IGHV4-38-2*02

1215 sequences assigned
303 (24.9%) exact matches, in which:
258 unique CDR3
6 unique J



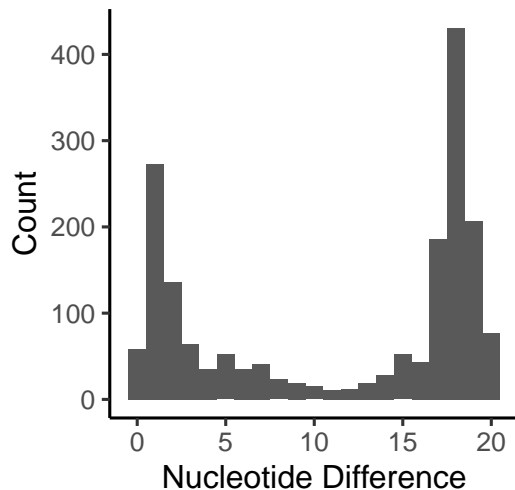
IGHV4-59*08

2493 sequences assigned
563 (22.6%) exact matches, in which:
452 unique CDR3
6 unique J



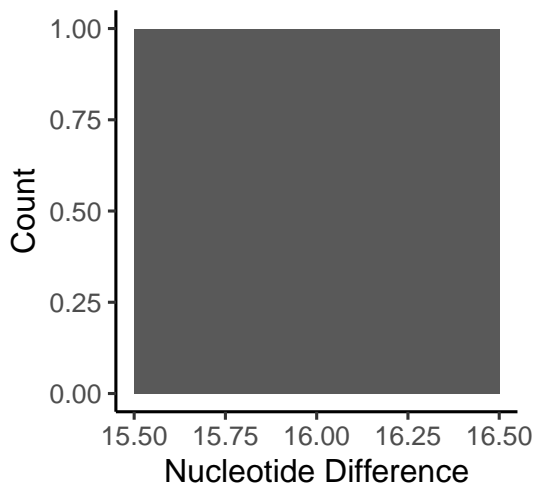
IGHV4–59*12

2514 sequences assigned
58 (2.3%) exact matches, in which:
57 unique CDR3
5 unique J



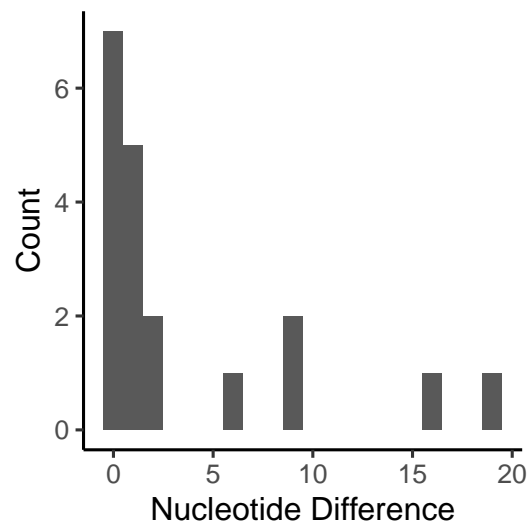
IGHV1/OR15–3*02

1 sequences assigned
No exact matches.



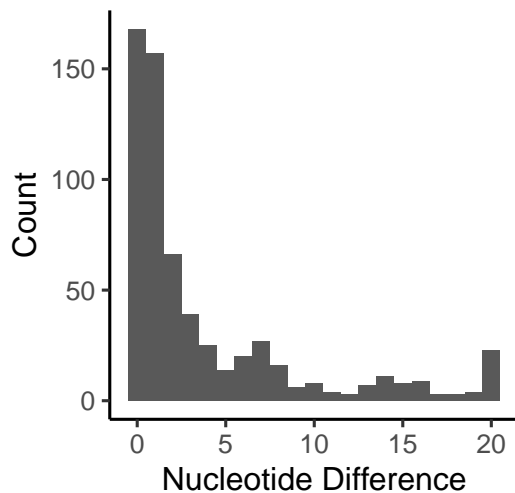
IGHV5–51*04

22 sequences assigned
7 (31.8%) exact matches, in which:
7 unique CDR3
5 unique J



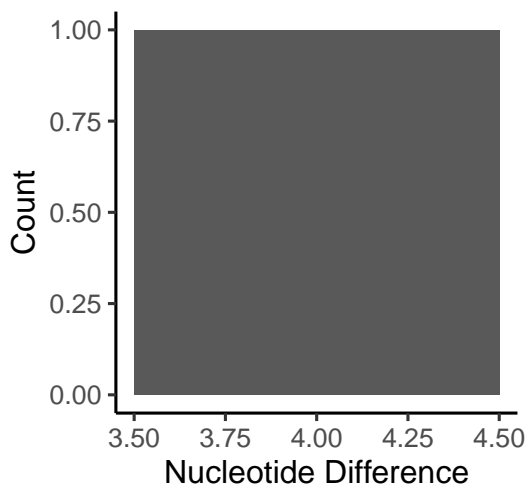
IGHV4–61*01

1671 sequences assigned
168 (10.1%) exact matches, in which:
141 unique CDR3
6 unique J



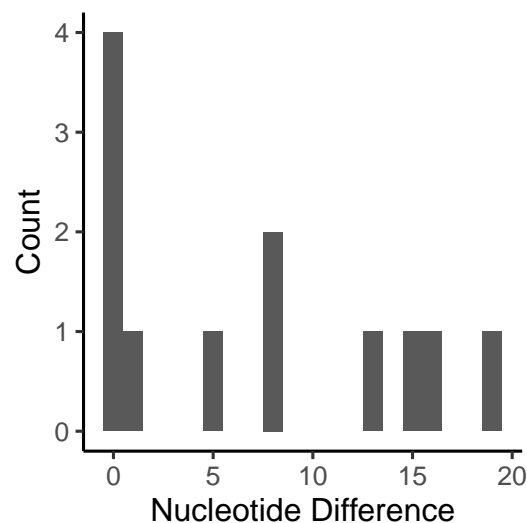
IGHV4/OR15–8*01

1 sequences assigned
No exact matches.



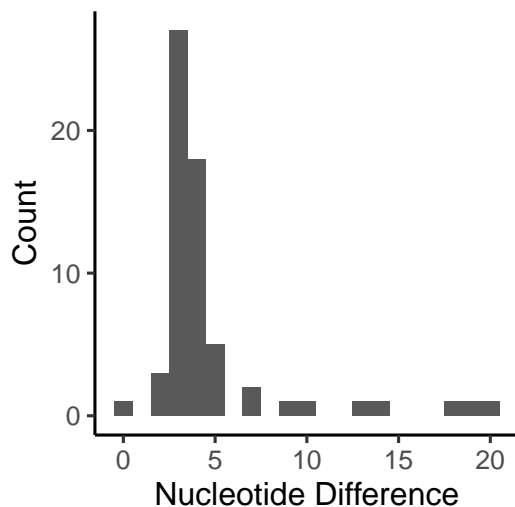
IGHV5–51*06

15 sequences assigned
4 (26.7%) exact matches, in which:
4 unique CDR3
3 unique J



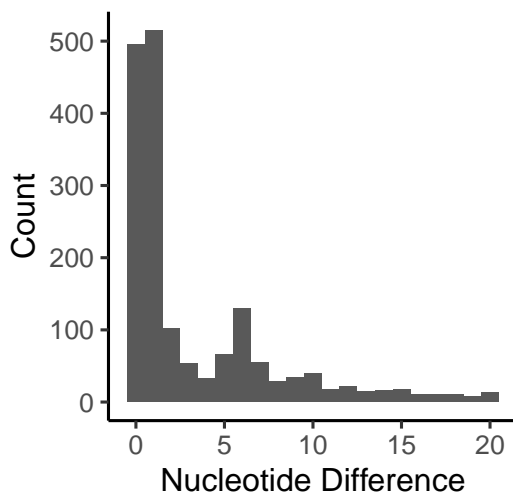
IGHV4–61*05

64 sequences assigned
1 (1.6%) exact matches, in which:
1 unique CDR3
1 unique J



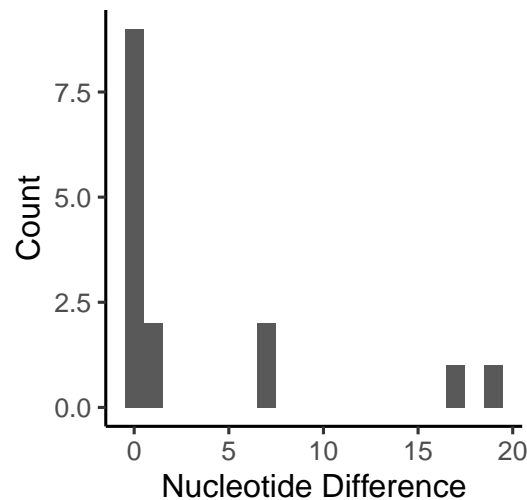
IGHV5–10–1*01_03

1976 sequences assigned
495 (25.1%) exact matches, in which:
308 unique CDR3
6 unique J



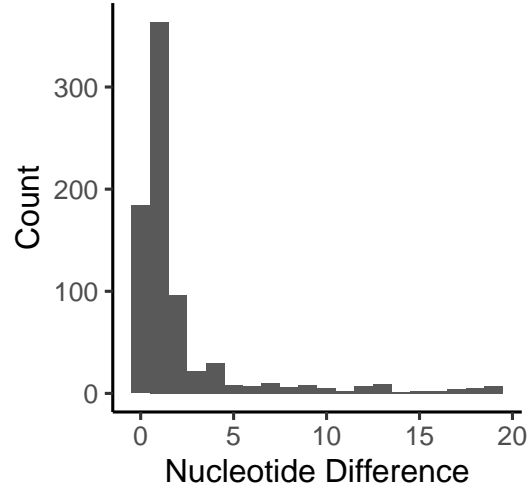
IGHV5–51*07

15 sequences assigned
9 (60%) exact matches, in which:
9 unique CDR3
5 unique J



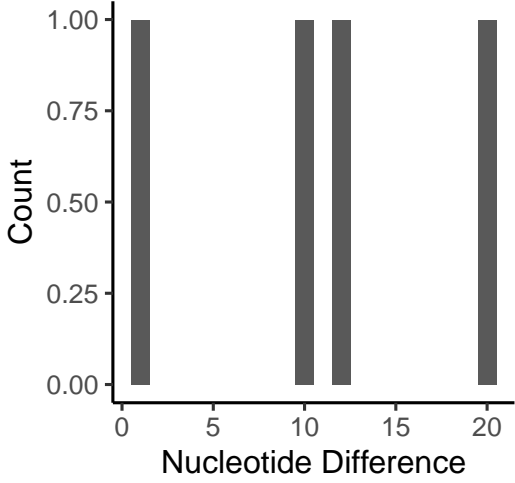
IGHV6-1*01_02

786 sequences assigned
184 (23.4%) exact matches, in which:
139 unique CDR3
6 unique J



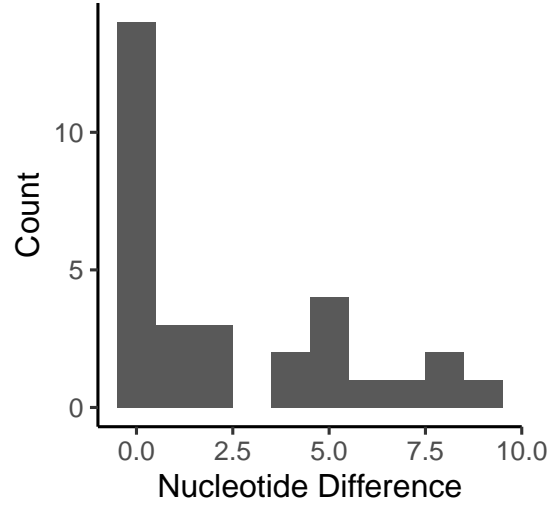
IGHV7-4-1*02

4 sequences assigned
No exact matches.



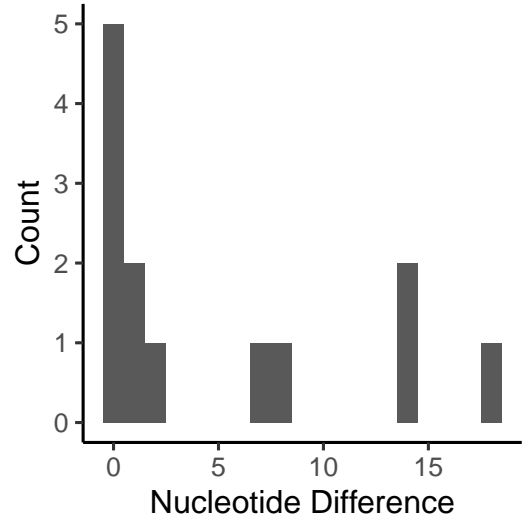
IGHV6-1*01_02_A315G

31 sequences assigned
14 (45.2%) exact matches, in which:
14 unique CDR3
4 unique J



IGHV7-4-1*01

13 sequences assigned
5 (38.5%) exact matches, in which:
5 unique CDR3
1 unique J



IGHV6-1*01_02_A315G

