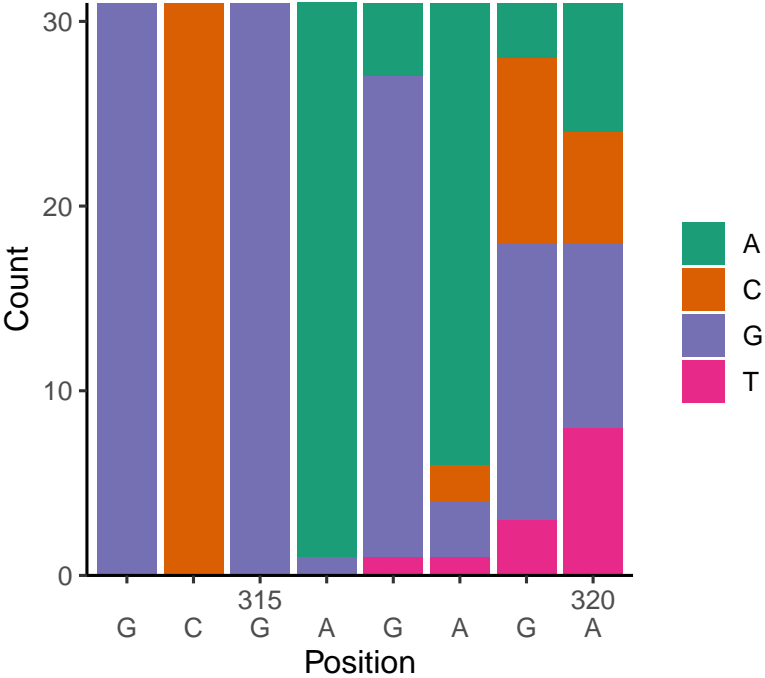
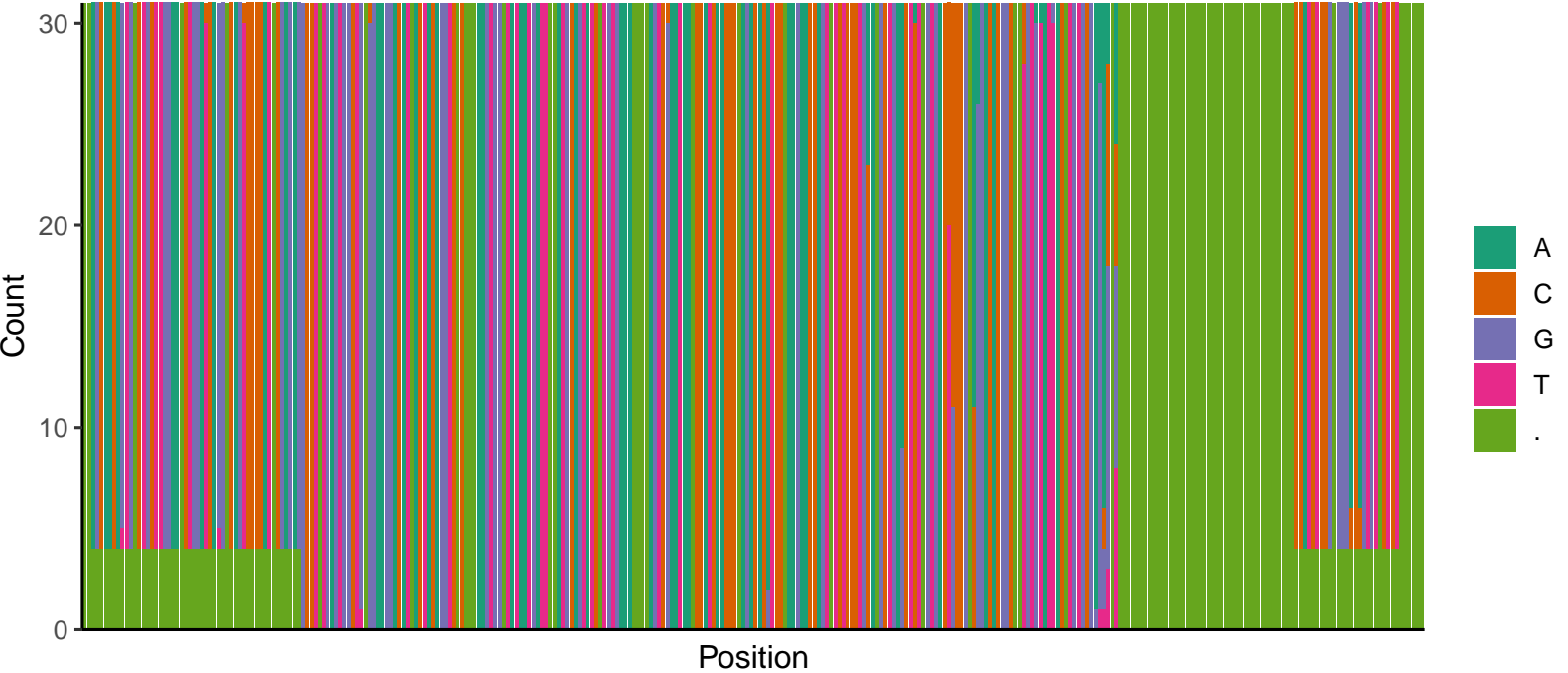


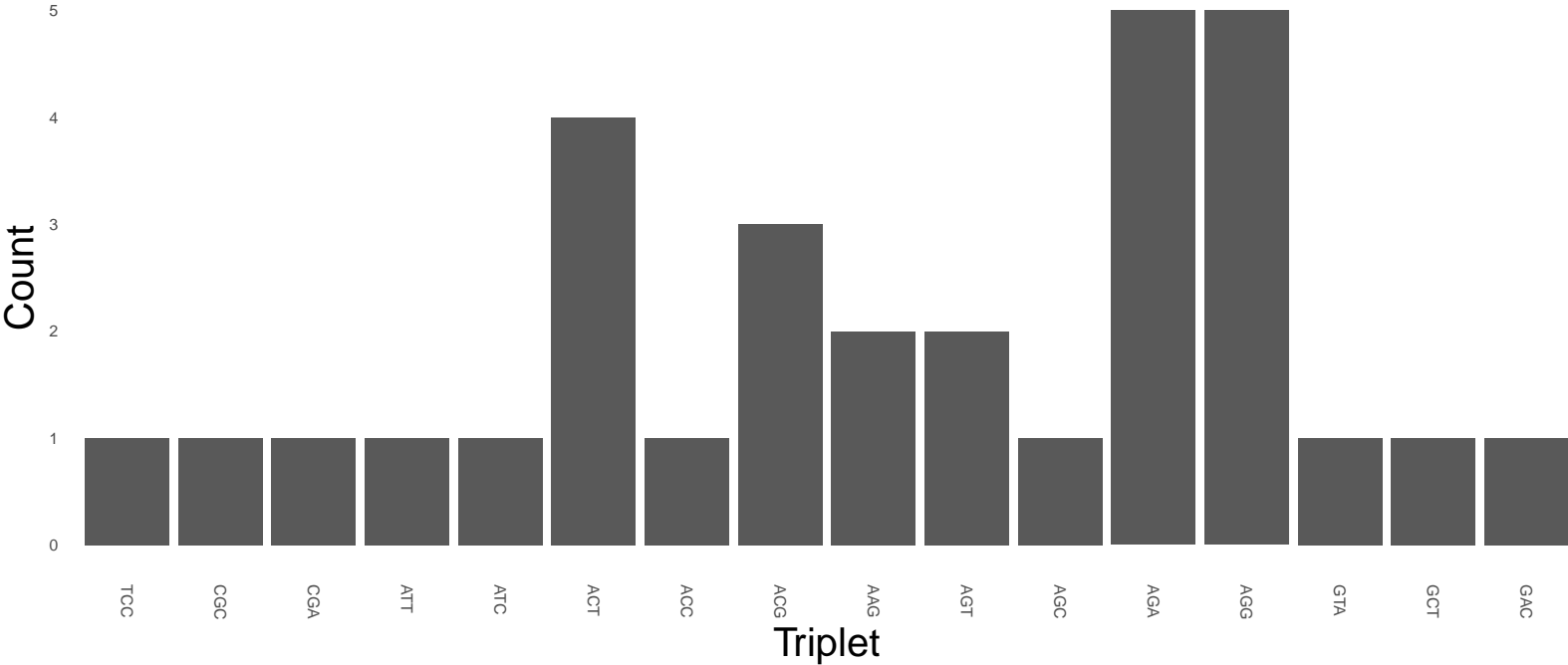
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

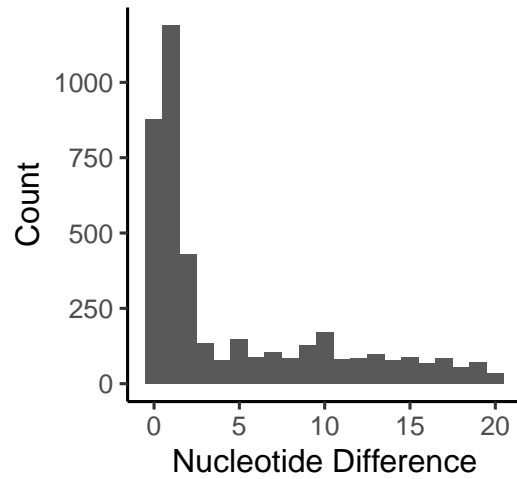


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



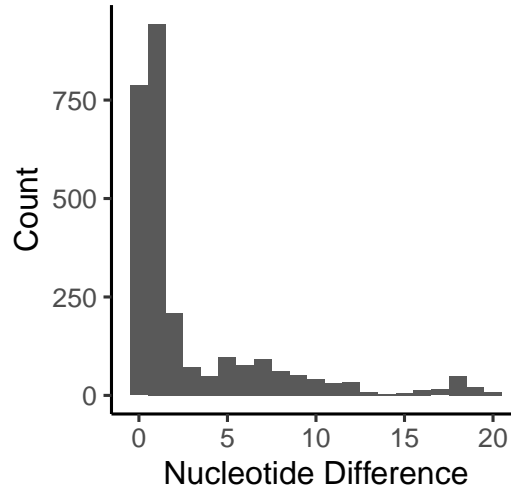
IGHV1-2*02

4323 sequences assigned
879 (20.3%) exact matches, in which:
693 unique CDR3
6 unique J



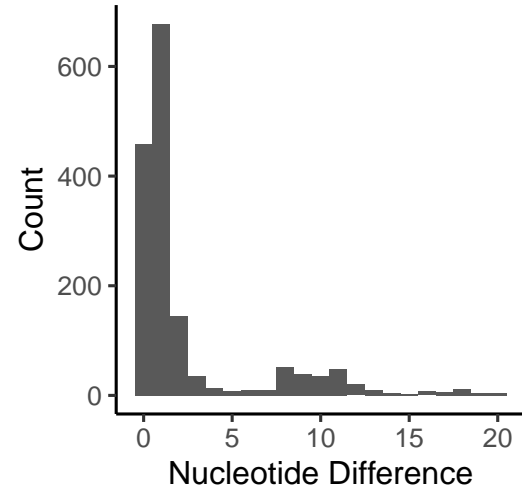
IGHV1-8*01

2783 sequences assigned
787 (28.3%) exact matches, in which:
646 unique CDR3
6 unique J



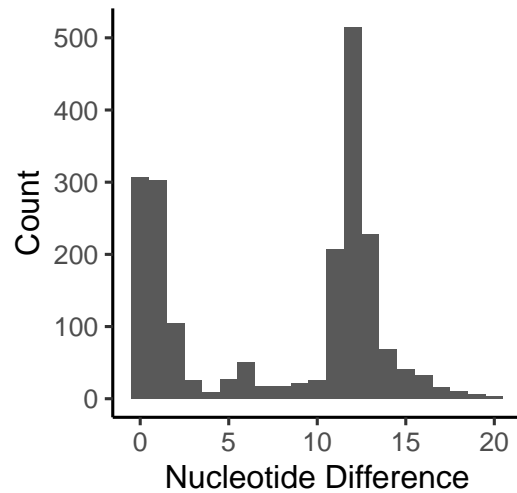
IGHV1-24*01

1606 sequences assigned
458 (28.5%) exact matches, in which:
374 unique CDR3
6 unique J



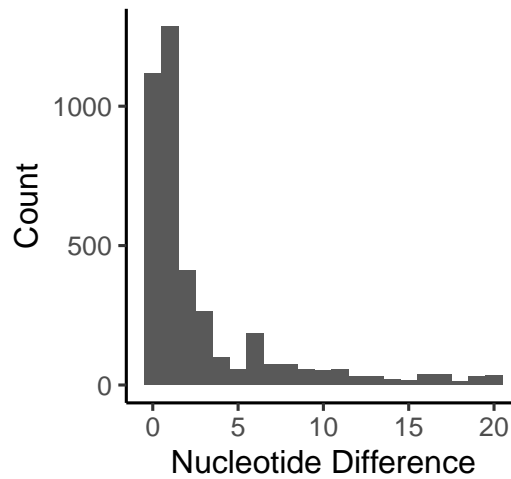
IGHV1-2*04

2041 sequences assigned
307 (15%) exact matches, in which:
254 unique CDR3
6 unique J



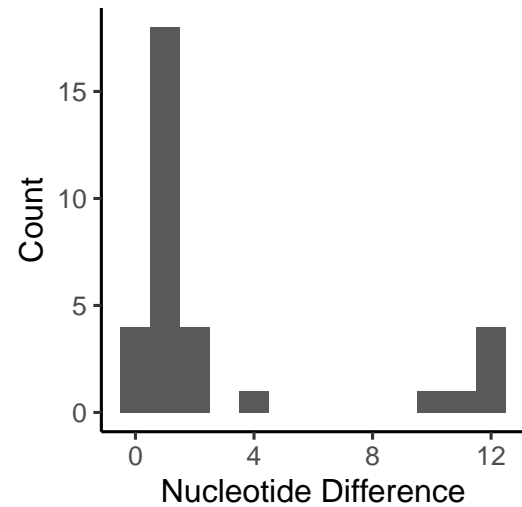
IGHV1-18*01

4197 sequences assigned
1117 (26.6%) exact matches, in which:
894 unique CDR3
6 unique J



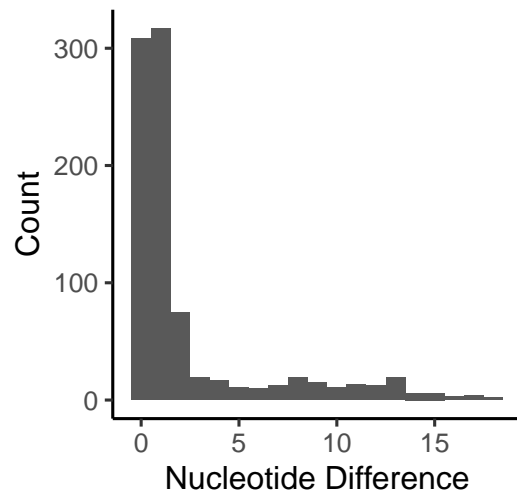
IGHV1-45*02

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



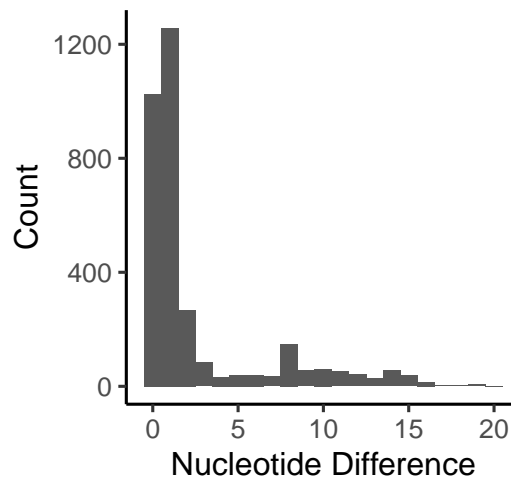
IGHV1-3*01_05

905 sequences assigned
308 (34%) exact matches, in which:
248 unique CDR3
5 unique J



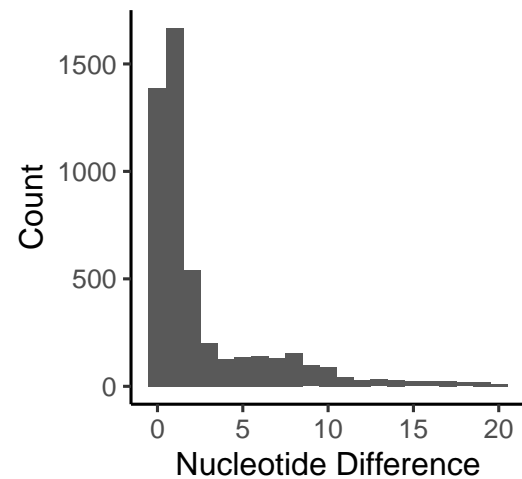
IGHV1-18*04

3572 sequences assigned
1026 (28.7%) exact matches, in which:
827 unique CDR3
6 unique J



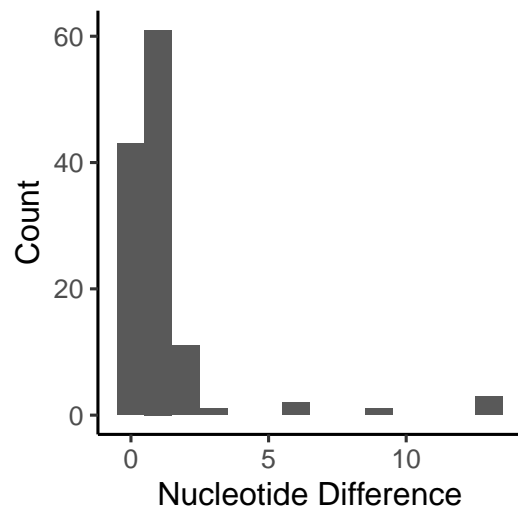
IGHV1-46*01

5171 sequences assigned
1389 (26.9%) exact matches, in which:
1128 unique CDR3
6 unique J



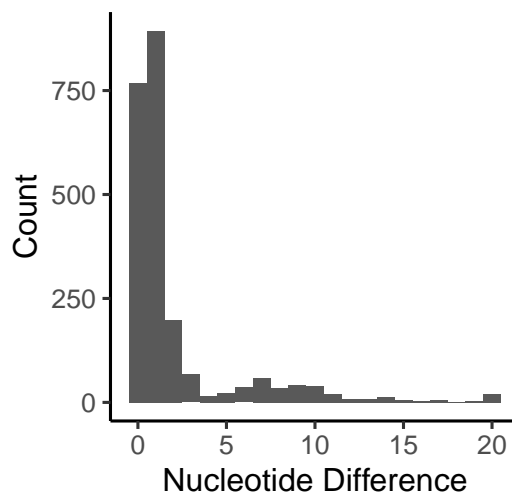
IGHV1-58*02

122 sequences assigned
43 (35.2%) exact matches, in which:
38 unique CDR3
5 unique J



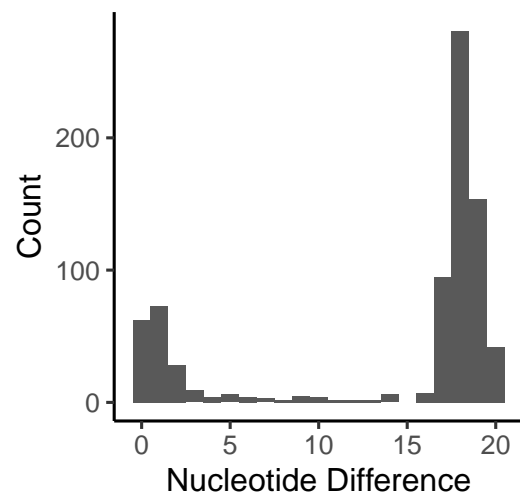
IGHV1-69*04_09

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



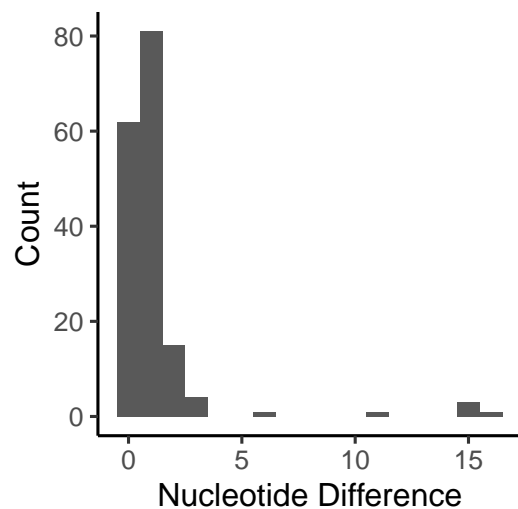
IGHV2-5*02

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



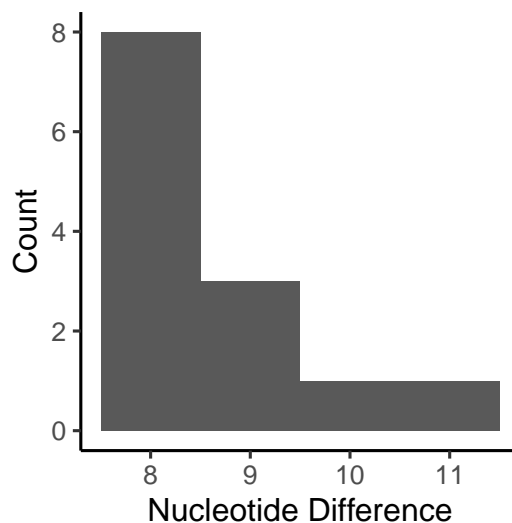
IGHV1-58*01_03

168 sequences assigned
62 (36.9%) exact matches, in which:
46 unique CDR3
5 unique J



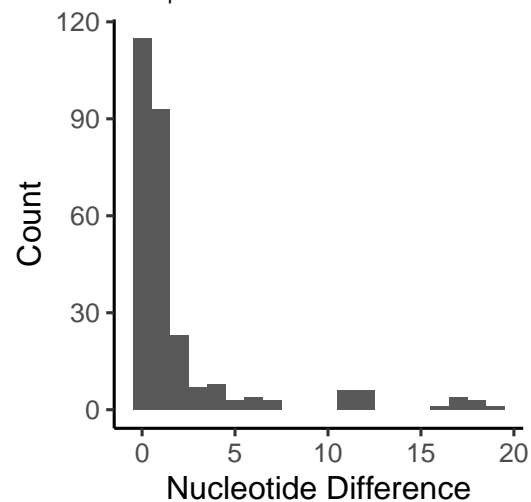
IGHV1-NL1*01

13 sequences assigned
No exact matches.



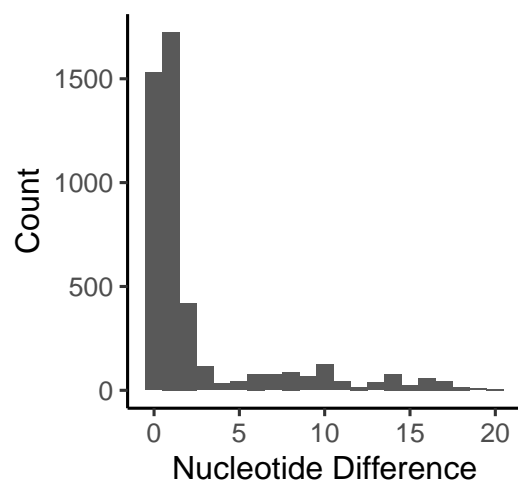
IGHV2-26*01

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



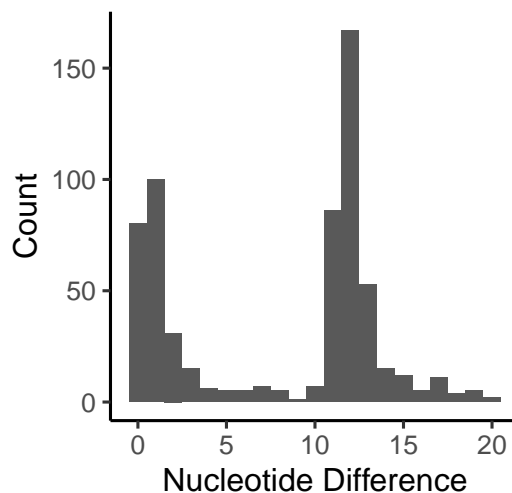
IGHV1-69*01_12_13

5210 sequences assigned
1531 (29.4%) exact matches, in which:
1302 unique CDR3
6 unique J



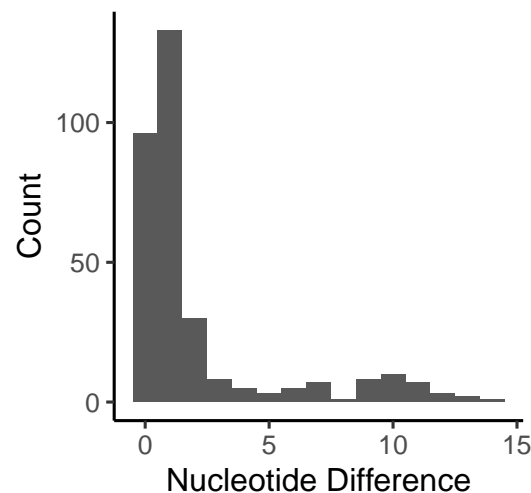
IGHV2-5*01

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



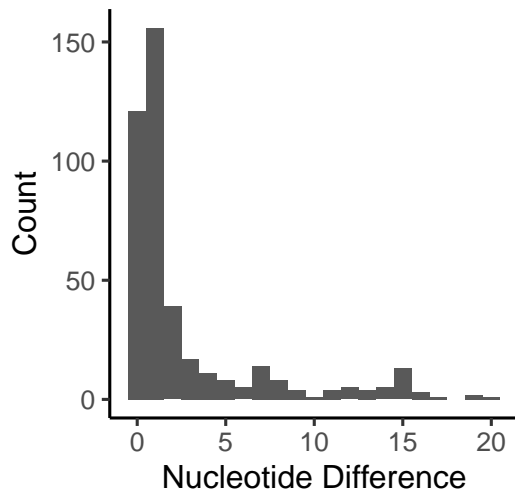
IGHV2-70*01

319 sequences assigned
96 (30.1%) exact matches, in which:
75 unique CDR3
5 unique J



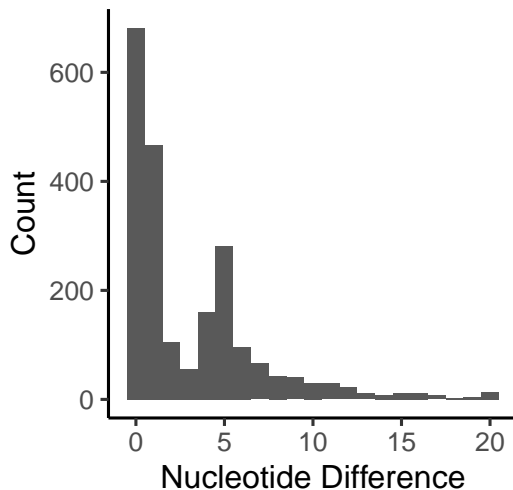
IGHV2–70*11_15

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



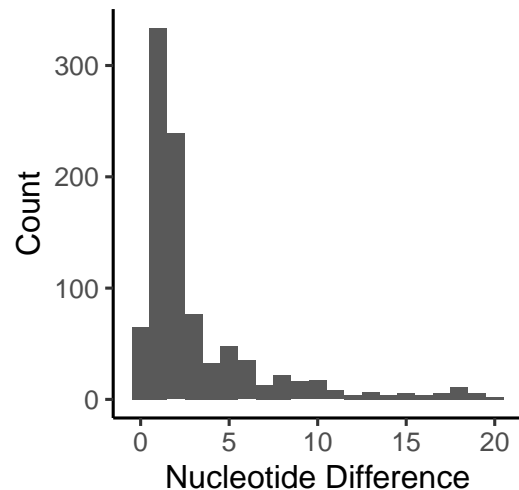
IGHV3–9*01

2227 sequences assigned
682 (30.6%) exact matches, in which:
407 unique CDR3
6 unique J



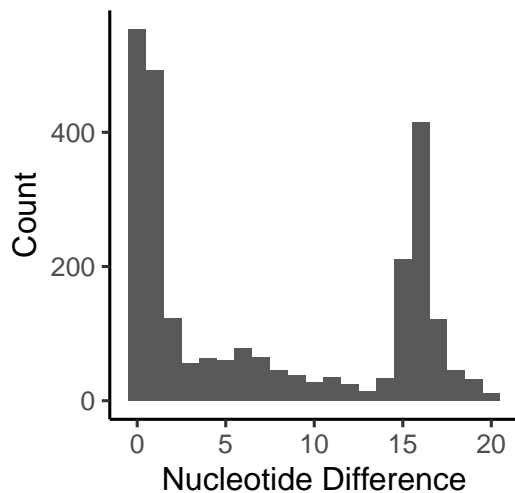
IGHV3–11*06

1002 sequences assigned
65 (6.5%) exact matches, in which:
64 unique CDR3
6 unique J



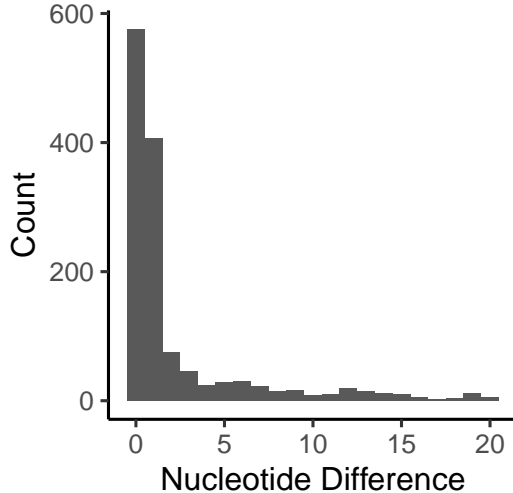
IGHV3–7*01

2652 sequences assigned
554 (20.9%) exact matches, in which:
350 unique CDR3
6 unique J



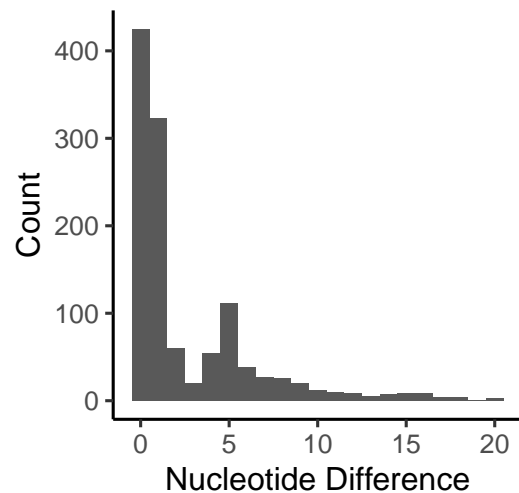
IGHV3–11*01

1360 sequences assigned
576 (42.4%) exact matches, in which:
353 unique CDR3
6 unique J



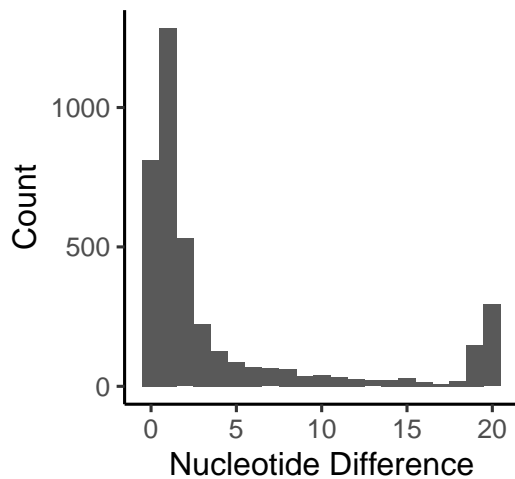
IGHV3–11*03_05

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



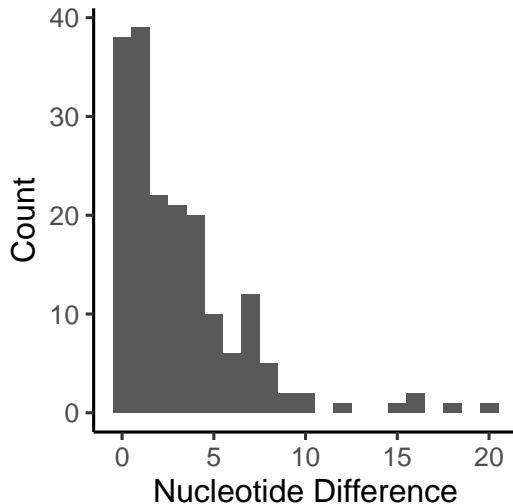
IGHV3–7*03

5163 sequences assigned
811 (15.7%) exact matches, in which:
446 unique CDR3
6 unique J



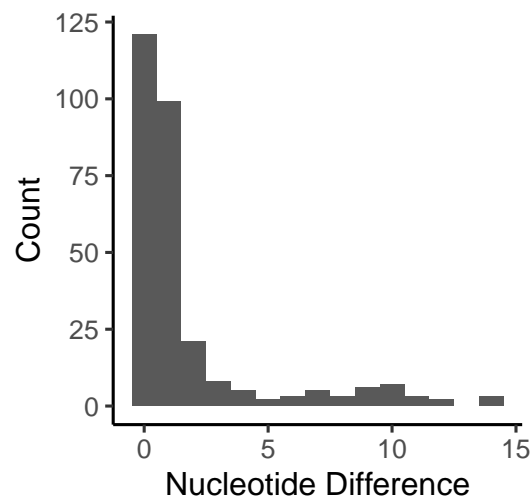
IGHV3–11*04

186 sequences assigned
38 (20.4%) exact matches, in which:
37 unique CDR3
6 unique J



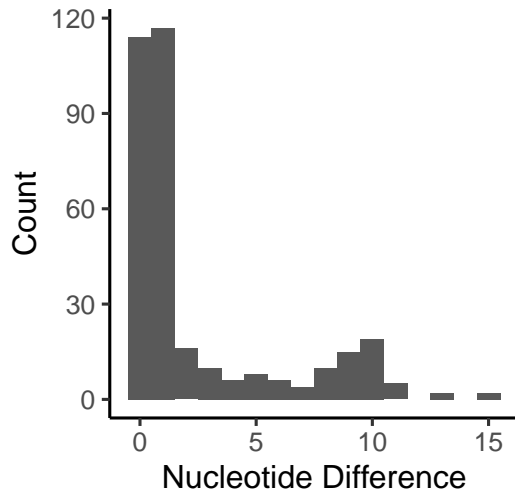
IGHV3–13*01

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



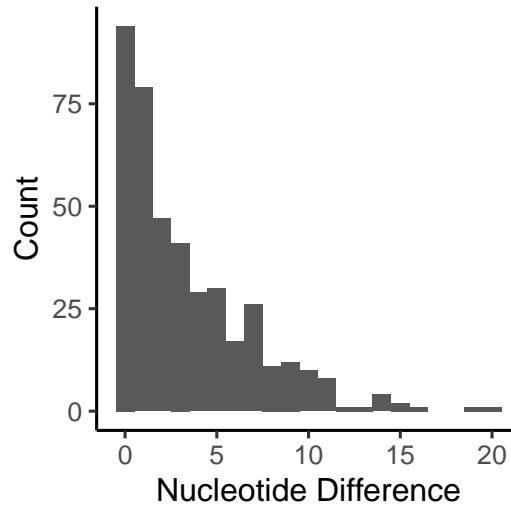
IGHV3-13*04

334 sequences assigned
114 (34.1%) exact matches, in which:
68 unique CDR3
6 unique J



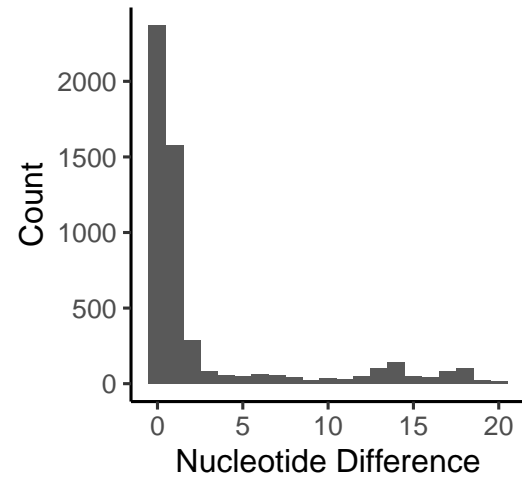
IGHV3-21*04

422 sequences assigned
94 (22.3%) exact matches, in which:
90 unique CDR3
6 unique J



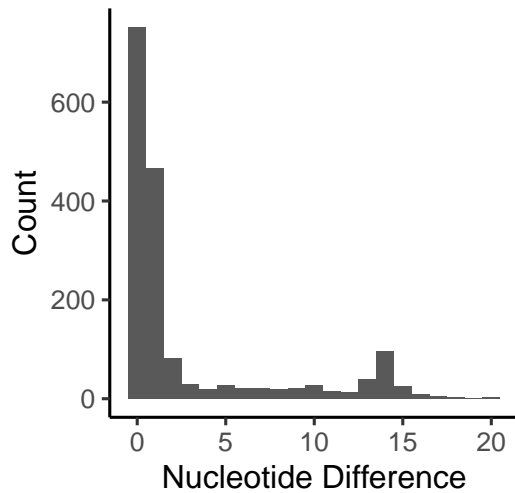
IGHV3-30-3*01

5443 sequences assigned
2370 (43.5%) exact matches, in which:
1410 unique CDR3
6 unique J



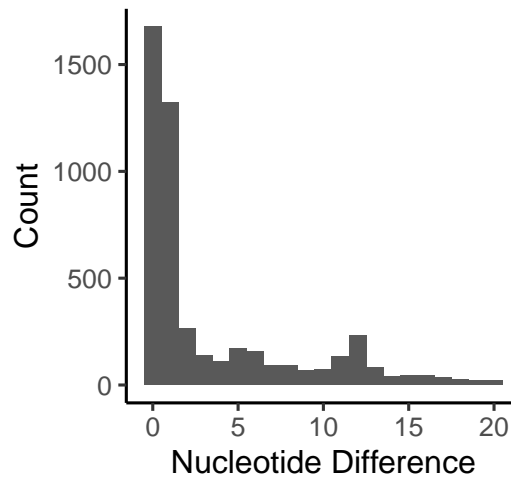
IGHV3-15*01_02

2594 sequences assigned
752 (29%) exact matches, in which:
419 unique CDR3
6 unique J



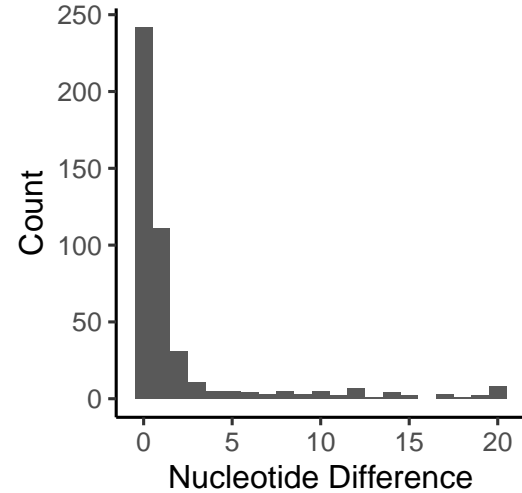
IGHV3-21*01_02

5082 sequences assigned
1677 (33%) exact matches, in which:
958 unique CDR3
6 unique J



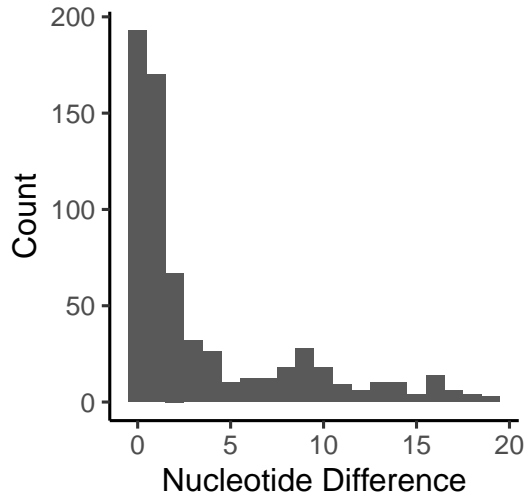
IGHV3-30*03

941 sequences assigned
242 (25.7%) exact matches, in which:
226 unique CDR3
6 unique J



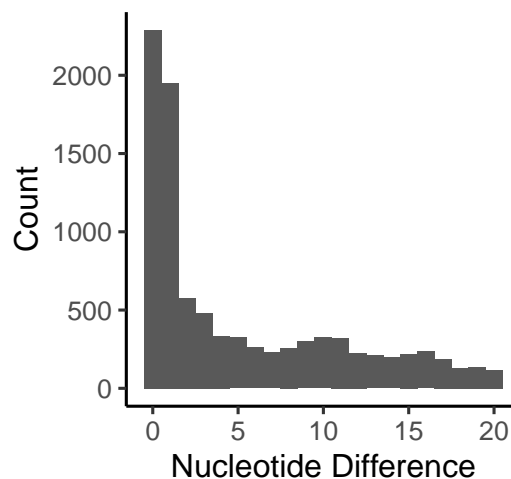
IGHV3-20*03_04

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



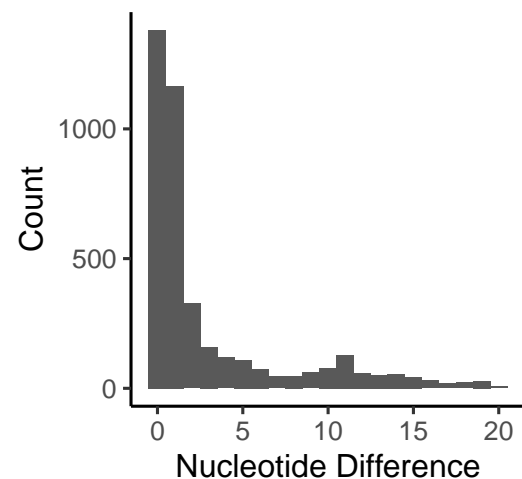
IGHV3-23*01_04

10483 sequences assigned
2289 (21.8%) exact matches, in which:
1270 unique CDR3
6 unique J



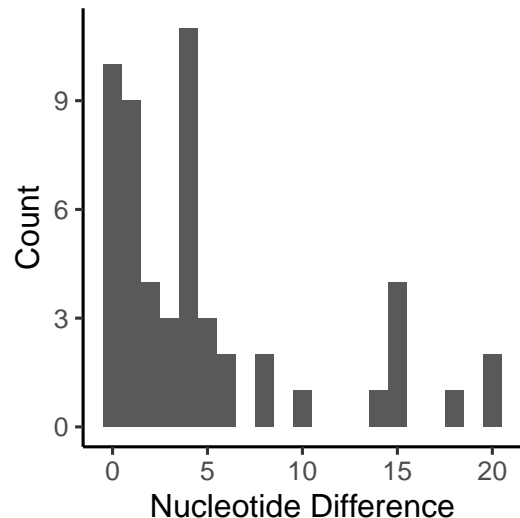
IGHV3-33*01

4073 sequences assigned
1381 (33.9%) exact matches, in which:
830 unique CDR3
6 unique J



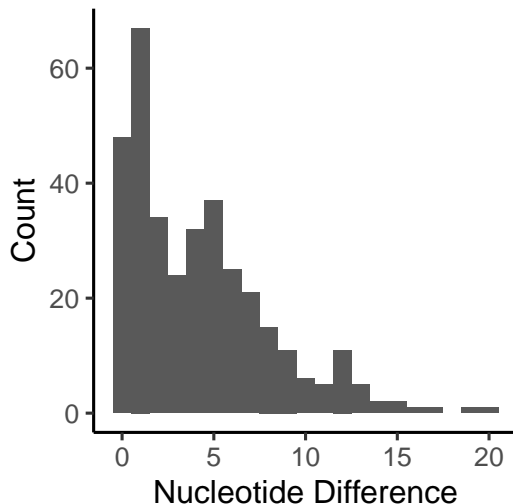
IGHV3-33*05

54 sequences assigned
10 (18.5%) exact matches, in which:
10 unique CDR3
2 unique J



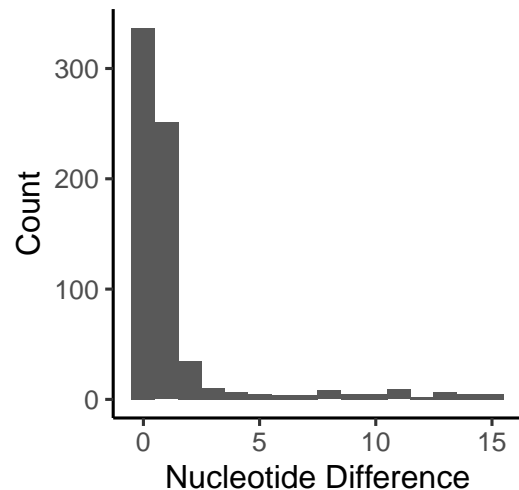
IGHV3-48*01

352 sequences assigned
48 (13.6%) exact matches, in which:
47 unique CDR3
4 unique J



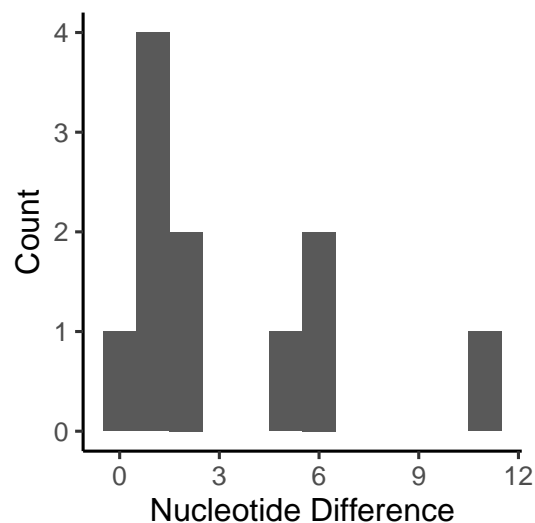
IGHV3-49*03_05

700 sequences assigned
337 (48.1%) exact matches, in which:
195 unique CDR3
6 unique J



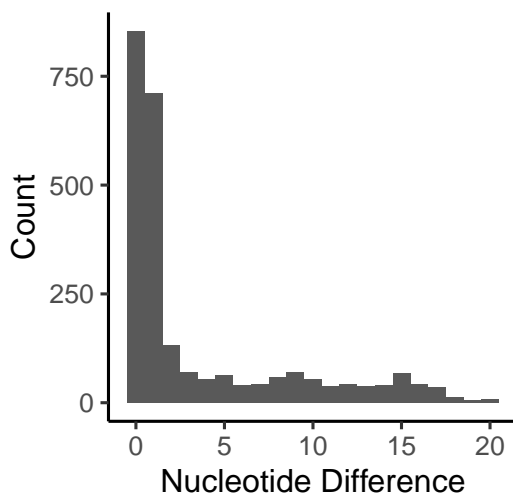
IGHV3-38-3*01

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



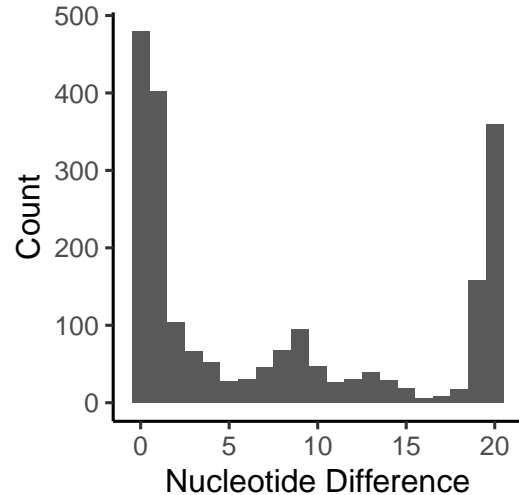
IGHV3-48*02

2600 sequences assigned
854 (32.8%) exact matches, in which:
462 unique CDR3
6 unique J



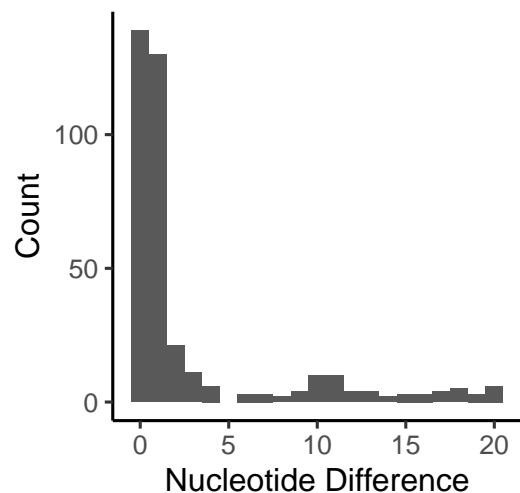
IGHV3-53*01_02

2681 sequences assigned
480 (17.9%) exact matches, in which:
295 unique CDR3
6 unique J



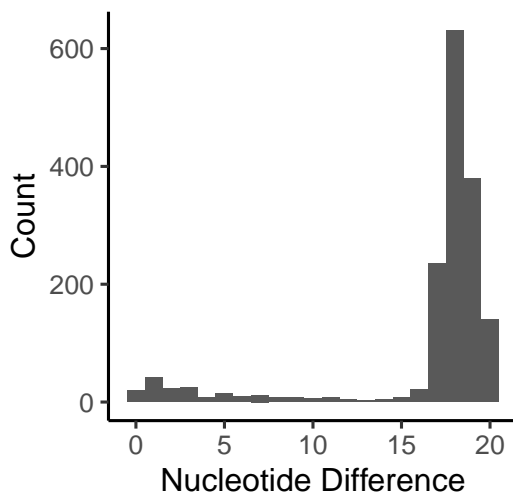
IGHV3-43*01

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



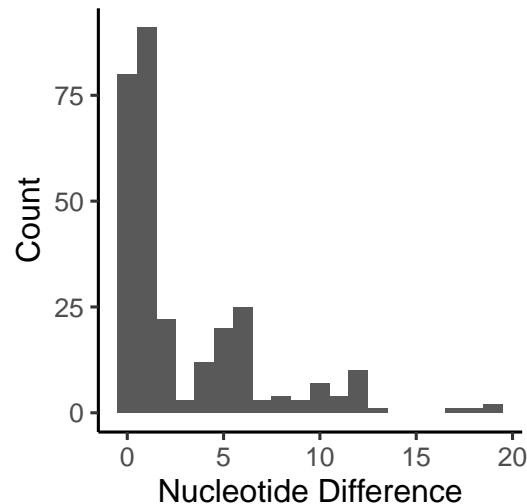
IGHV3-48*04

1746 sequences assigned
19 (1.1%) exact matches, in which:
19 unique CDR3
4 unique J



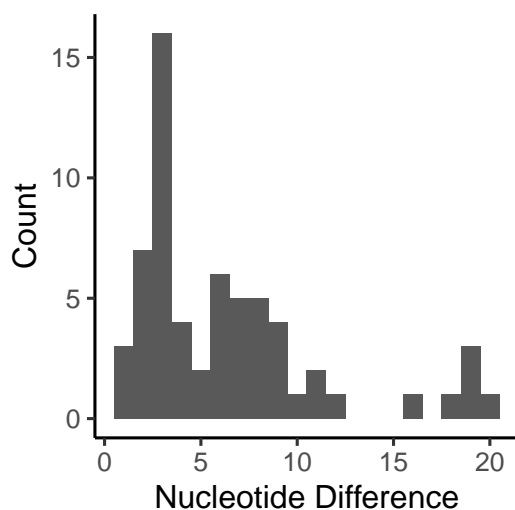
IGHV3-64*01

291 sequences assigned
80 (27.5%) exact matches, in which:
52 unique CDR3
5 unique J



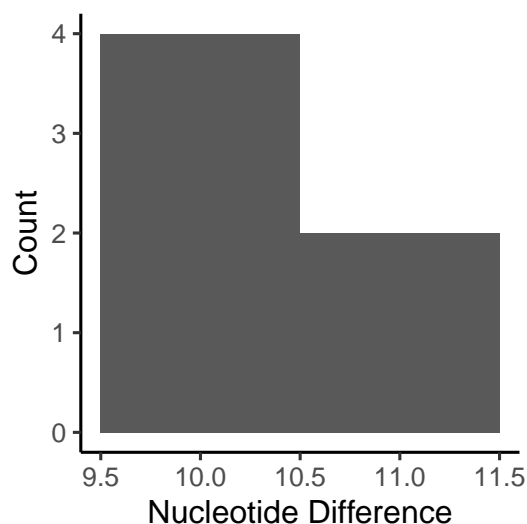
IGHV3-64*04

83 sequences assigned
No exact matches.



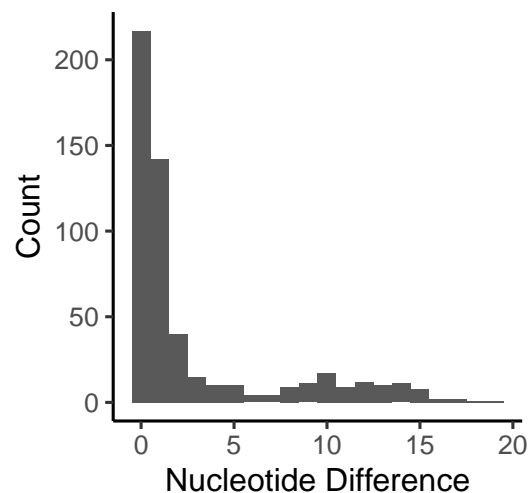
IGHV3-69-1*02

6 sequences assigned
No exact matches.



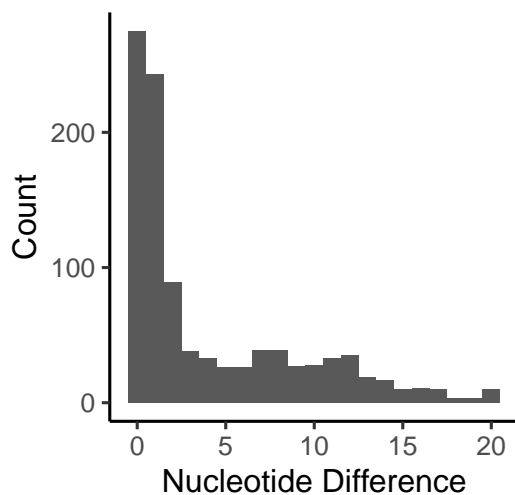
IGHV3-73*01_02

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



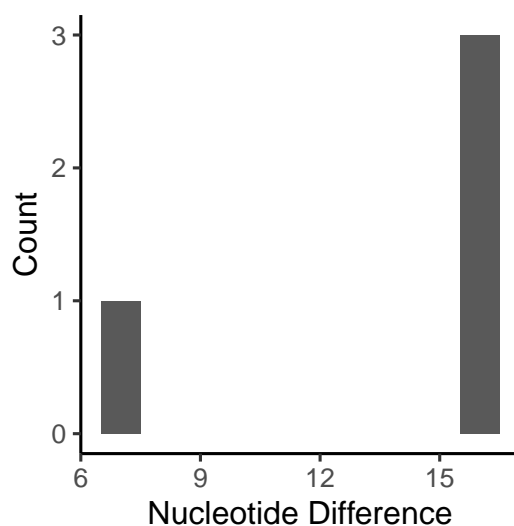
IGHV3-66*01

1022 sequences assigned
275 (26.9%) exact matches, in which:
165 unique CDR3
5 unique J



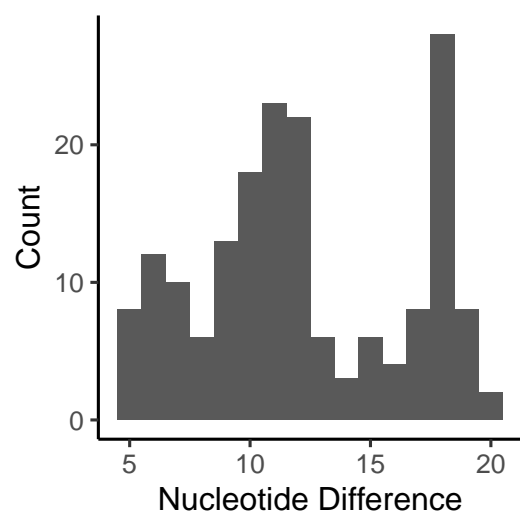
IGHV3-71*01_04

4 sequences assigned
No exact matches.



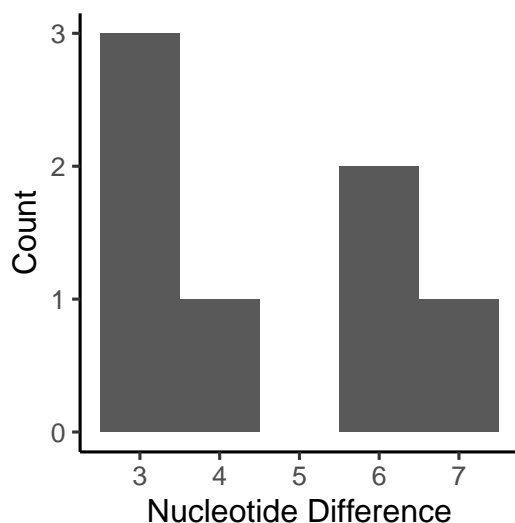
IGHV3-74*03

321 sequences assigned
No exact matches.



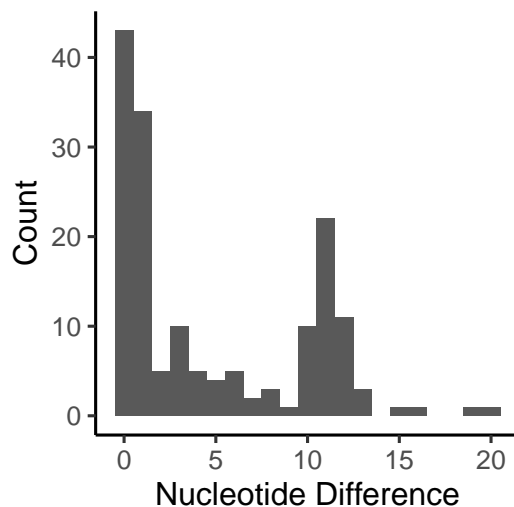
IGHV3-69-1*01

8 sequences assigned
No exact matches.



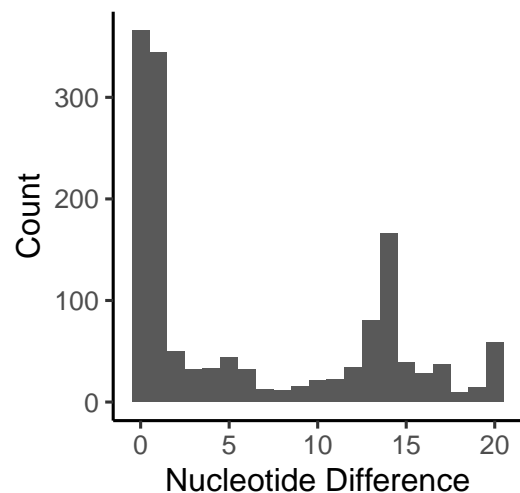
IGHV3-72*01

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



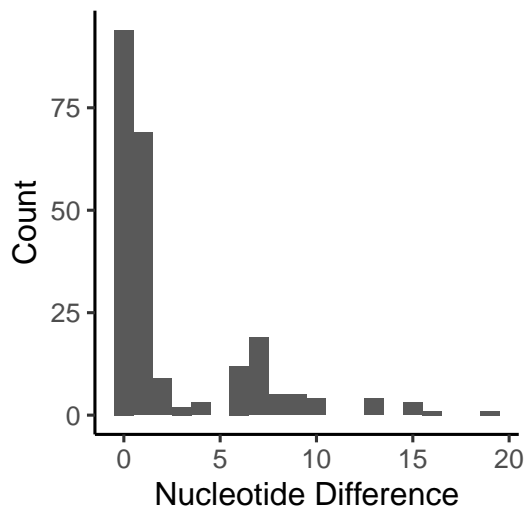
IGHV3-74*01_02

1591 sequences assigned
366 (23%) exact matches, in which:
218 unique CDR3
6 unique J



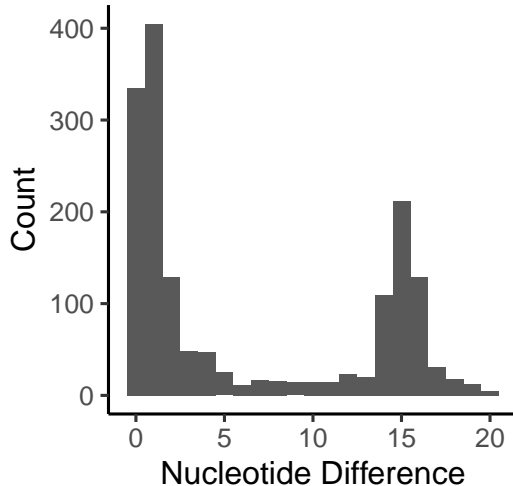
IGHV3-43D*03

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



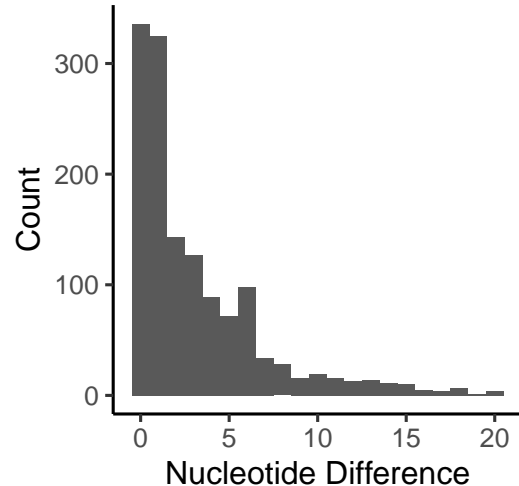
IGHV4-4*07

2222 sequences assigned
335 (15.1%) exact matches, in which:
275 unique CDR3
5 unique J



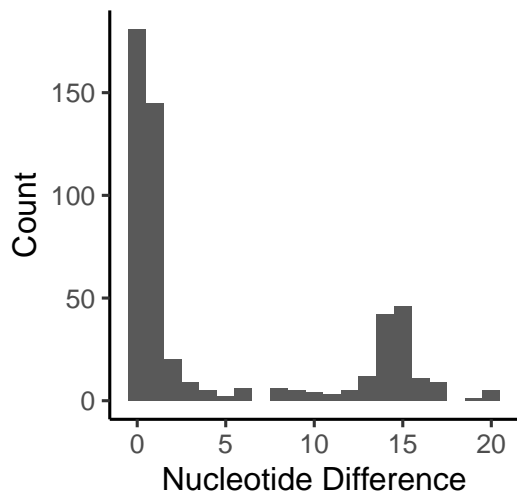
IGHV4-30-4*01

1463 sequences assigned
336 (23%) exact matches, in which:
274 unique CDR3
6 unique J



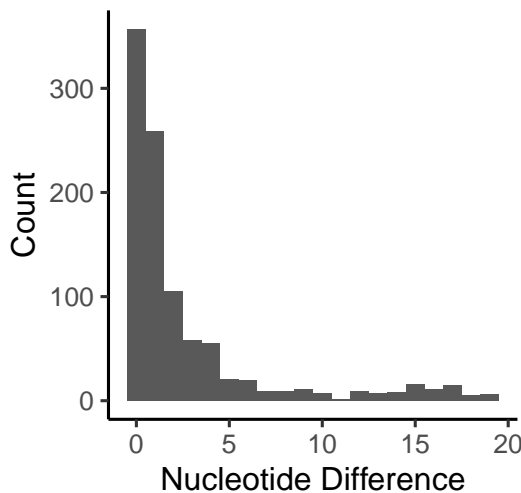
IGHV3-64D*06

773 sequences assigned
181 (23.4%) exact matches, in which:
99 unique CDR3
5 unique J



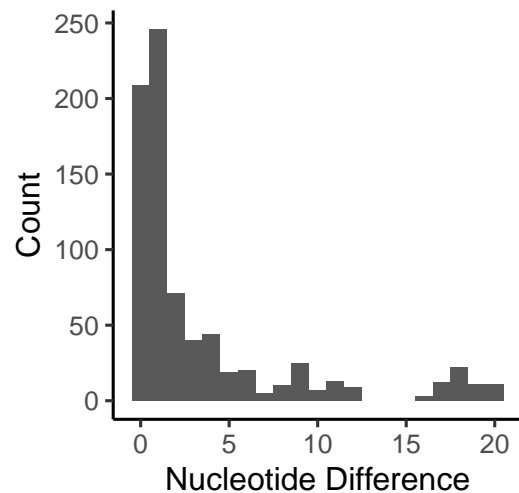
IGHV4-4*02_03

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



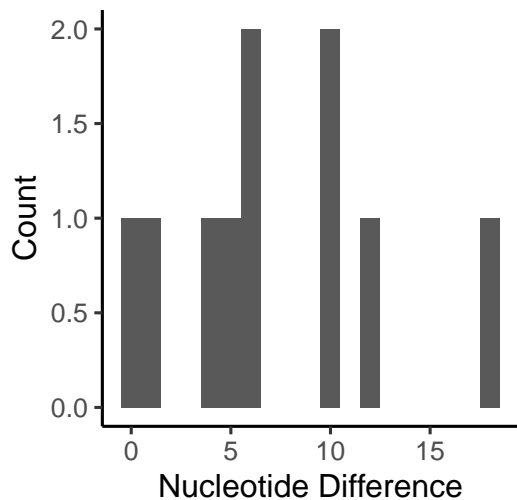
IGHV4-30-2*01

908 sequences assigned
209 (23%) exact matches, in which:
142 unique CDR3
6 unique J



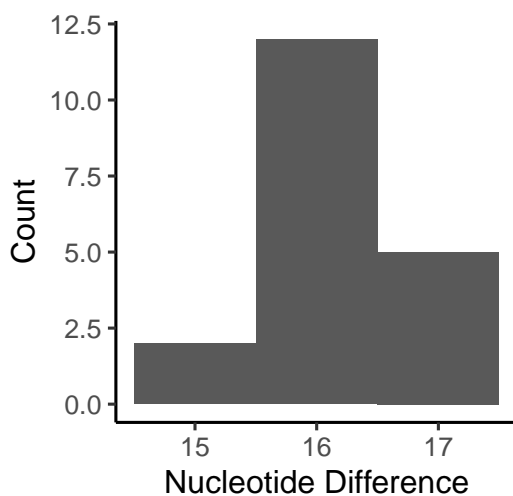
IGHV3-NL1*01

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



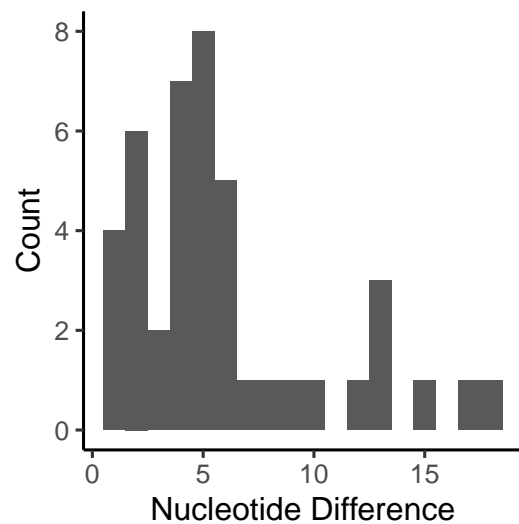
IGHV4-28*02_05

19 sequences assigned
No exact matches.



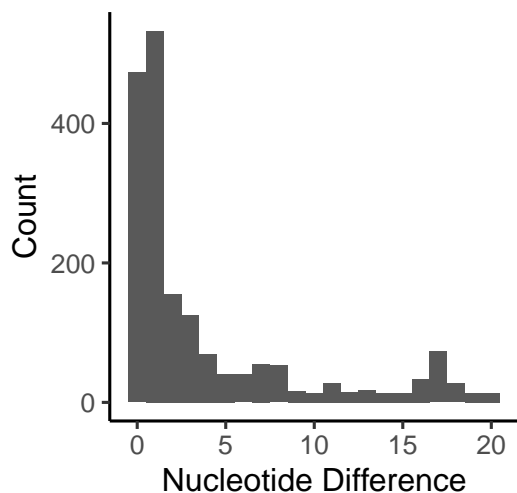
IGHV4-30-2*03

45 sequences assigned
No exact matches.



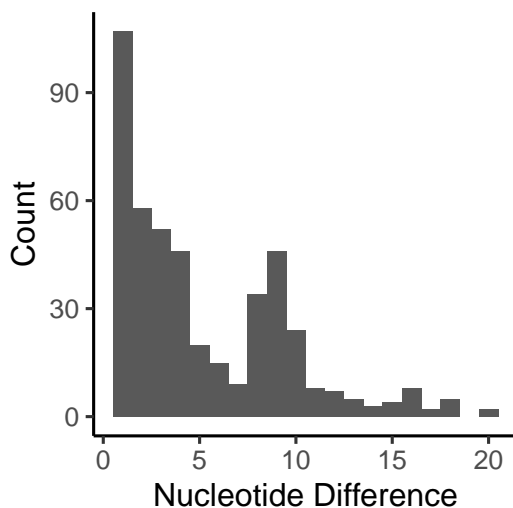
IGHV4-31*02

2107 sequences assigned
473 (22.4%) exact matches, in which:
399 unique CDR3
6 unique J



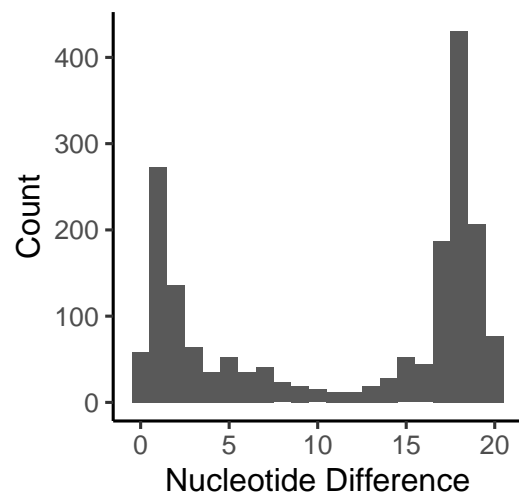
IGHV4-39*07

465 sequences assigned
No exact matches.



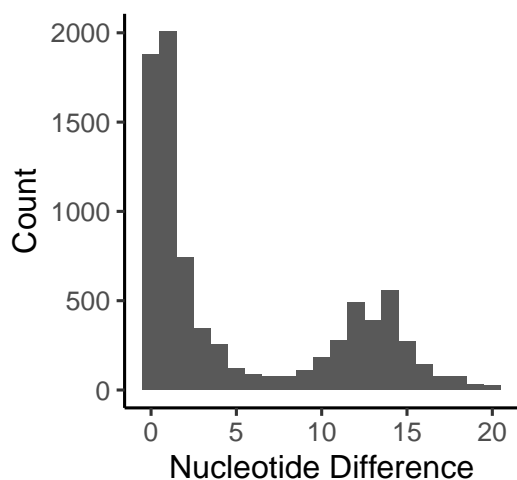
IGHV4-59*12

2518 sequences assigned
58 (2.3%) exact matches, in which:
57 unique CDR3
5 unique J



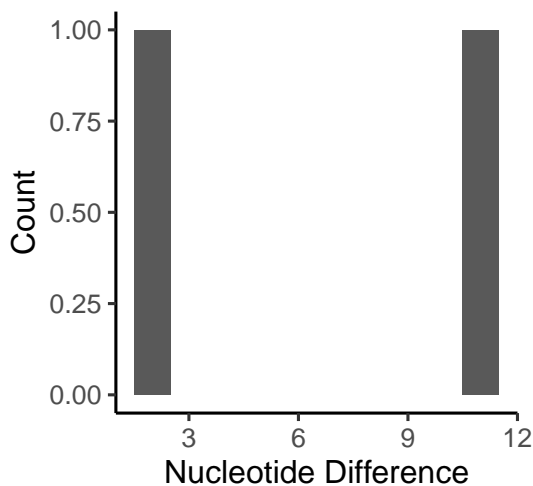
IGHV4-34*01_02

9086 sequences assigned
1881 (20.7%) exact matches, in which:
1299 unique CDR3
6 unique J



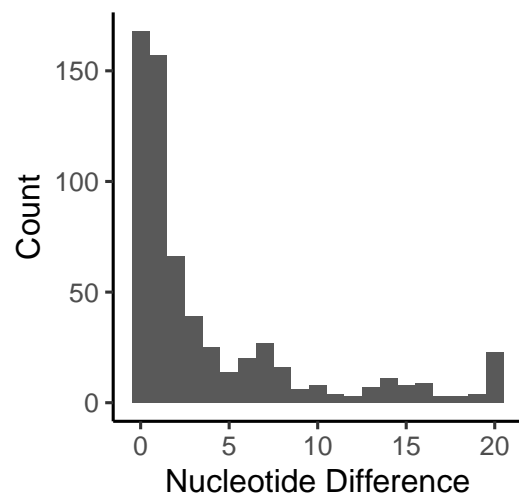
IGHV4-55*09

2 sequences assigned
No exact matches.



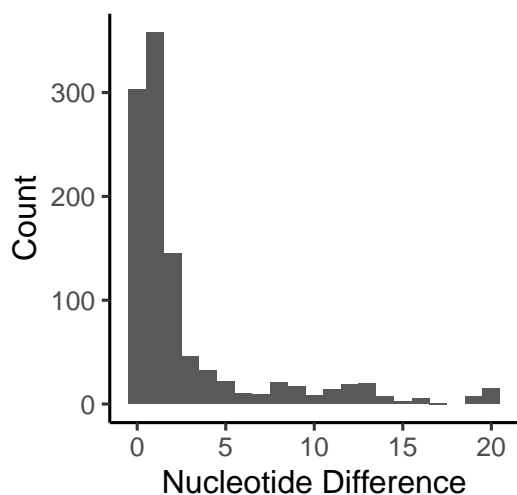
IGHV4-61*01

1702 sequences assigned
168 (9.9%) exact matches, in which:
141 unique CDR3
6 unique J



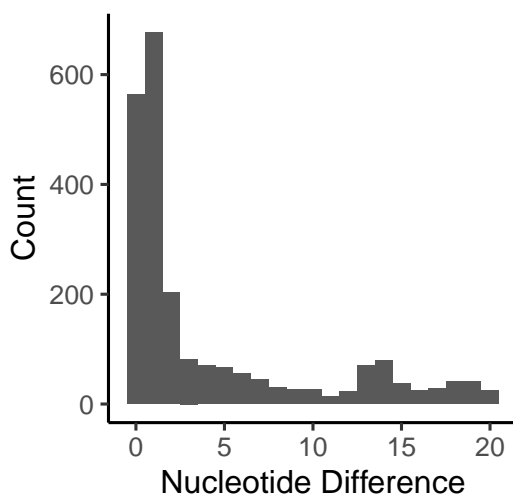
IGHV4-38-2*02

1214 sequences assigned
303 (25%) exact matches, in which:
258 unique CDR3
6 unique J



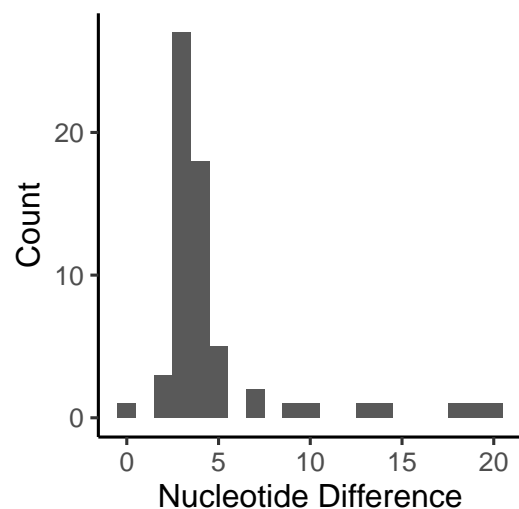
IGHV4-59*08

2495 sequences assigned
563 (22.6%) exact matches, in which:
452 unique CDR3
6 unique J



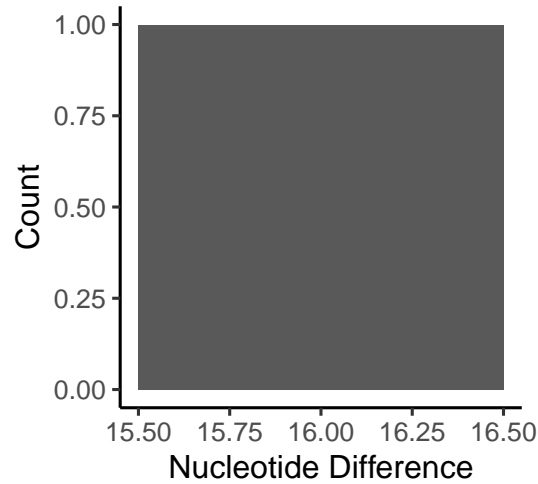
IGHV4-61*05

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



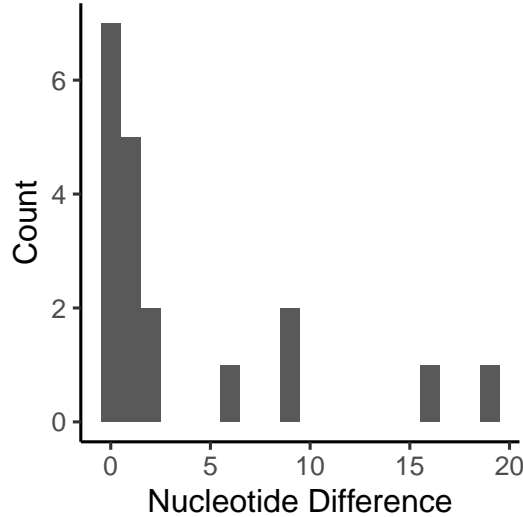
IGHV1/OR15-3*02

1 sequences assigned
No exact matches.



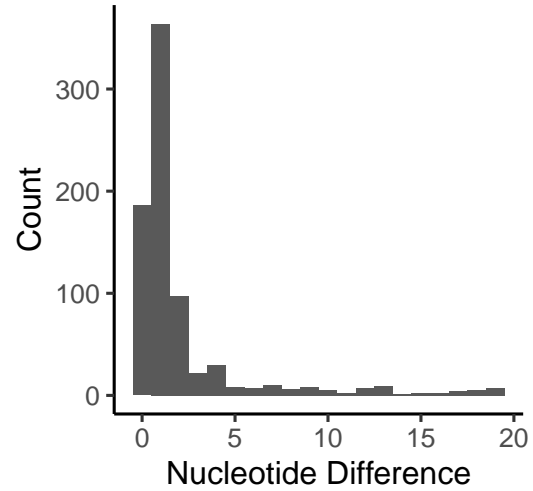
IGHV5-51*04

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



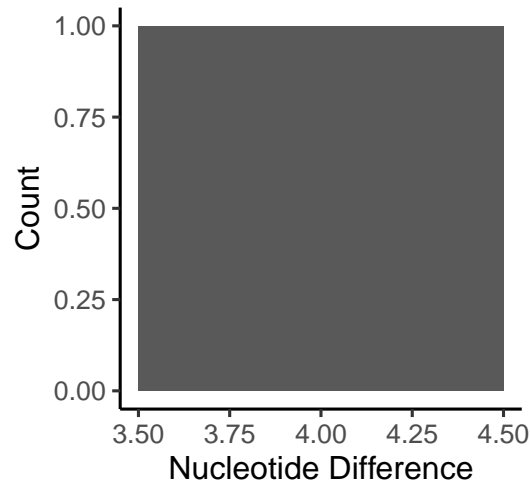
IGHV6-1*01_02

789 sequences assigned
186 (23.6%) exact matches, in which:
139 unique CDR3
6 unique J



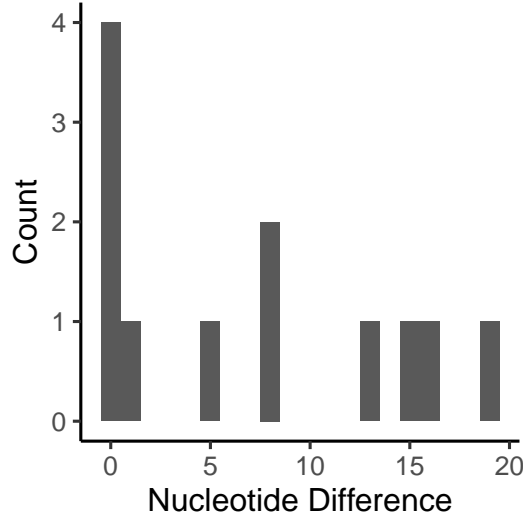
IGHV4/OR15-8*01

1 sequences assigned
No exact matches.



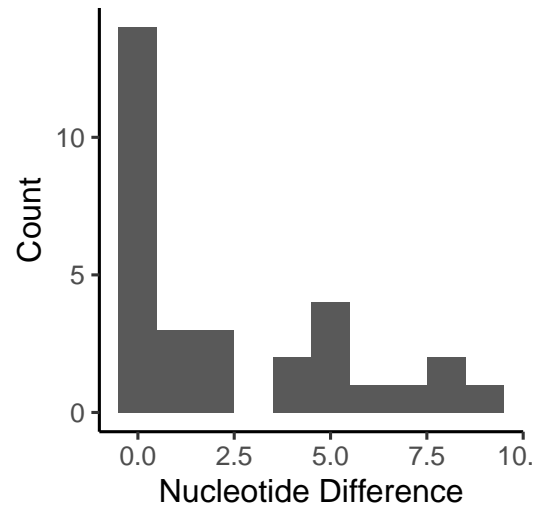
IGHV5-51*06

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



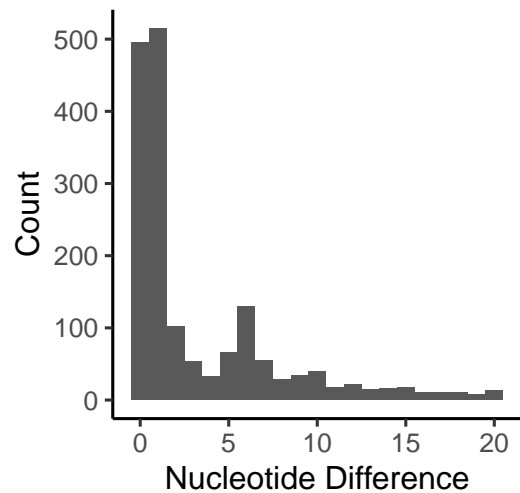
IGHV6-1*01_02_A315G

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



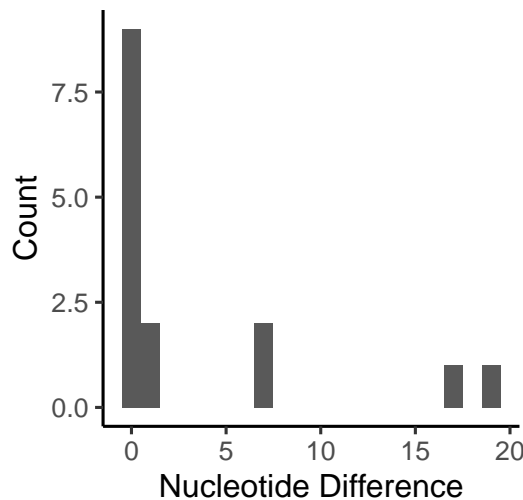
IGHV5-10-1*01_03

1979 sequences assigned
495 (25%) exact matches, in which:
308 unique CDR3
6 unique J



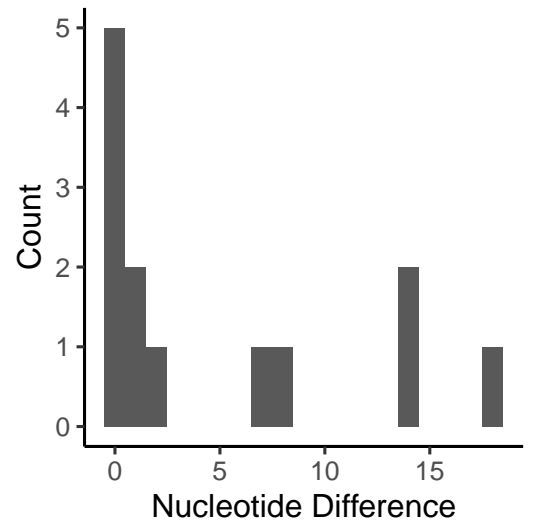
IGHV5-51*07

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



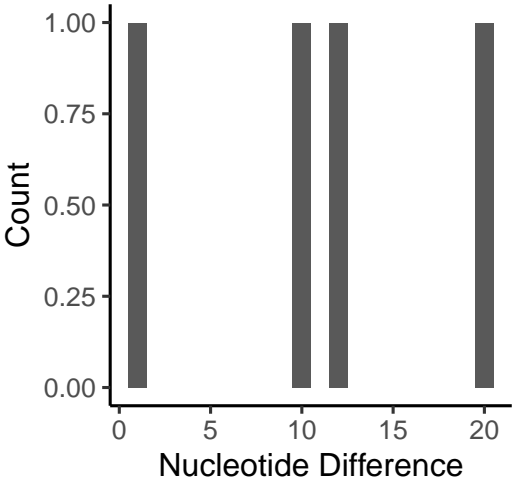
IGHV7-4-1*01

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

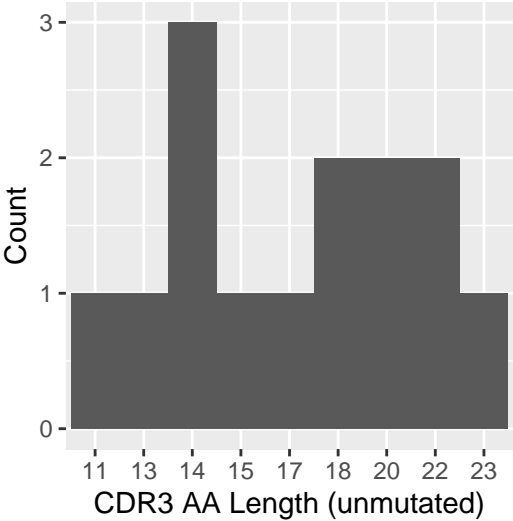


IGHV7-4-1*02

4 sequences assigned
No exact matches.



IGHV6-1*01_02_A315G





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