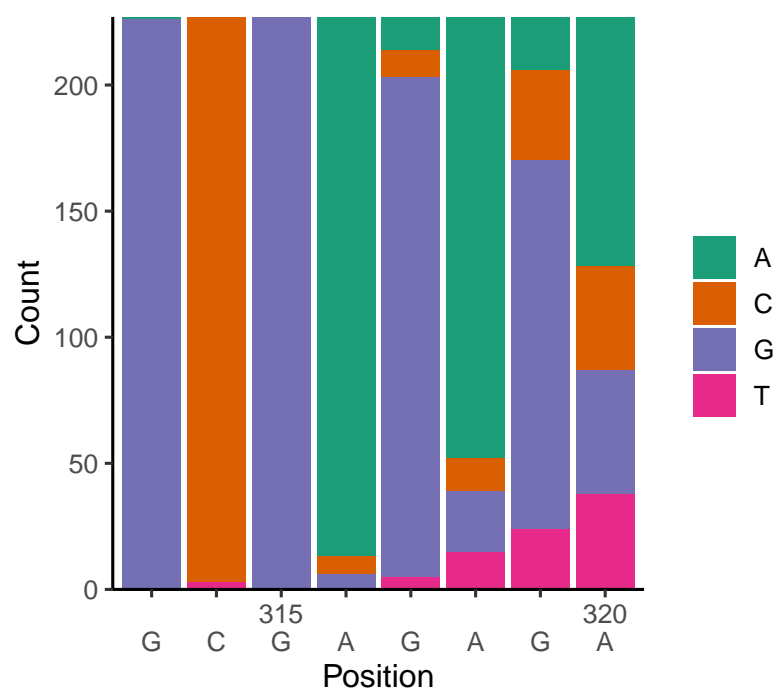
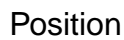


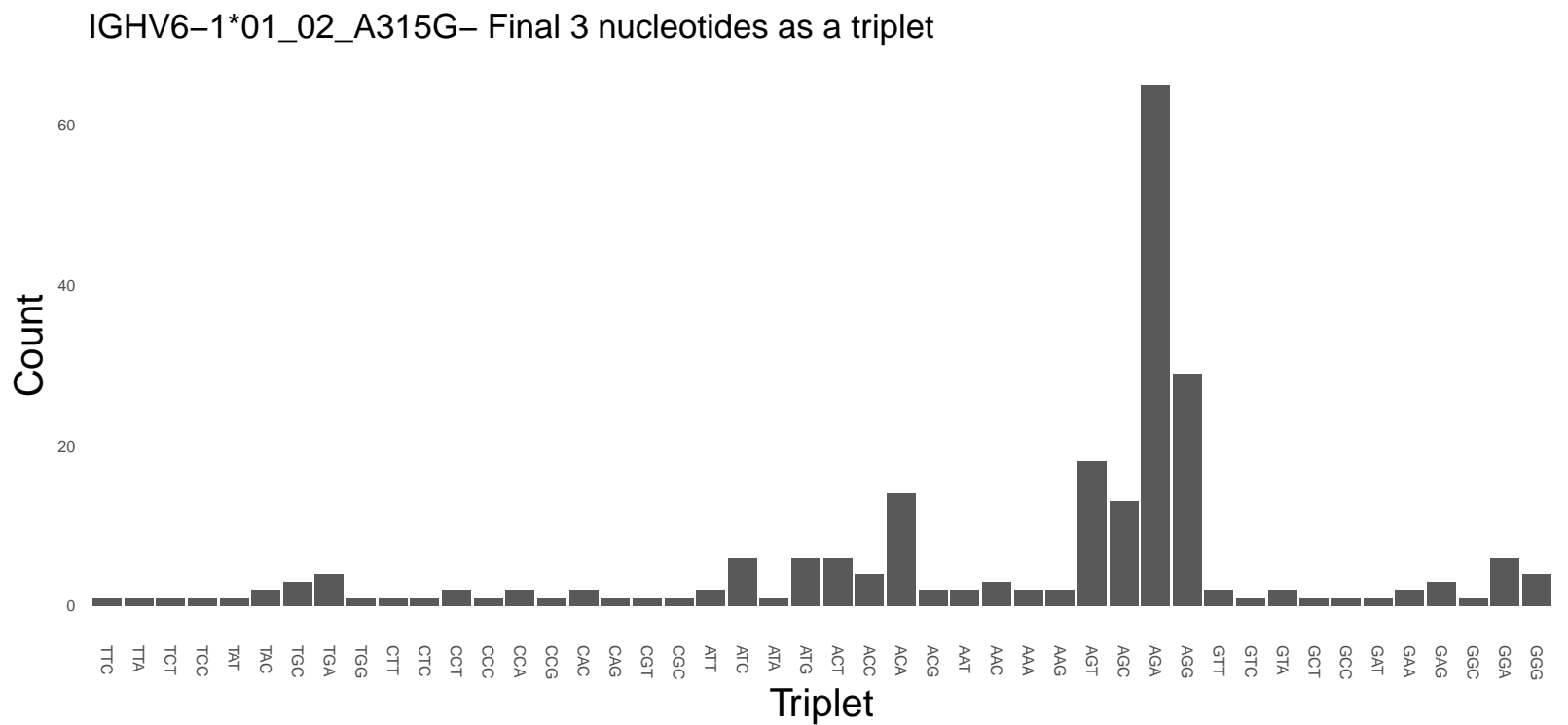
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

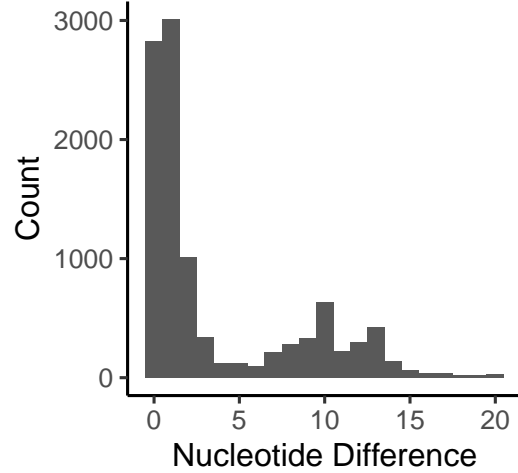


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



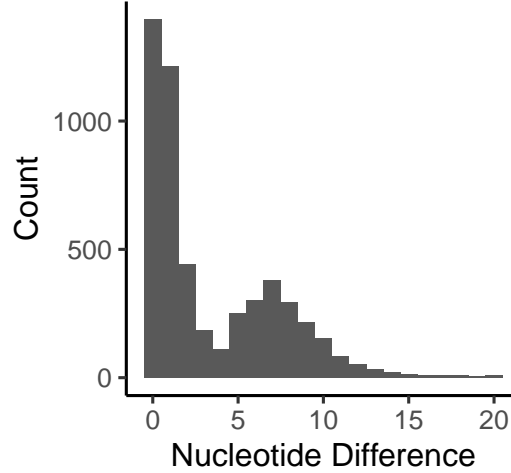
IGHV1-2*02

10353 sequences assigned
2823 (27.3%) exact matches, in which:
2272 unique CDR3
7 unique J



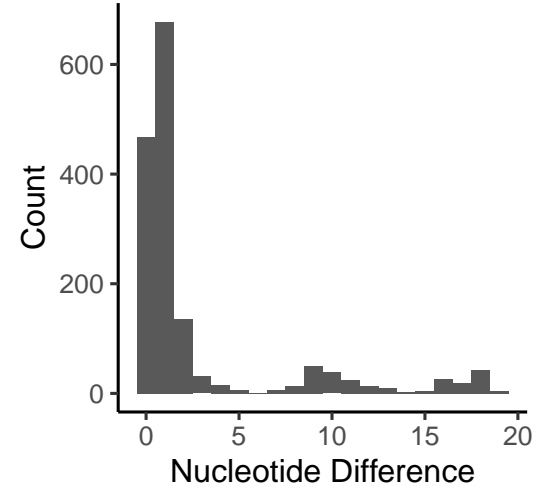
IGHV1-8*01

5202 sequences assigned
1396 (26.8%) exact matches, in which:
1209 unique CDR3
7 unique J



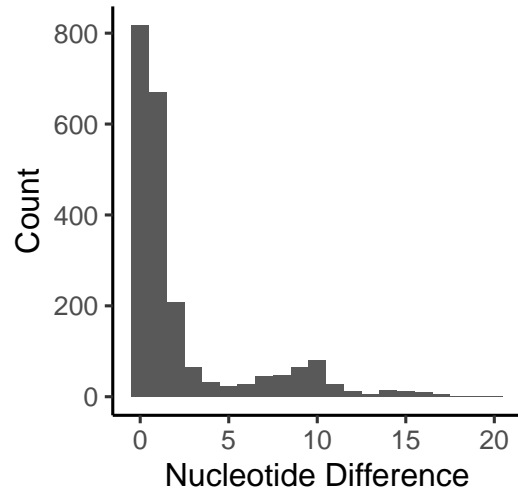
IGHV1-24*01

1590 sequences assigned
467 (29.4%) exact matches, in which:
319 unique CDR3
7 unique J



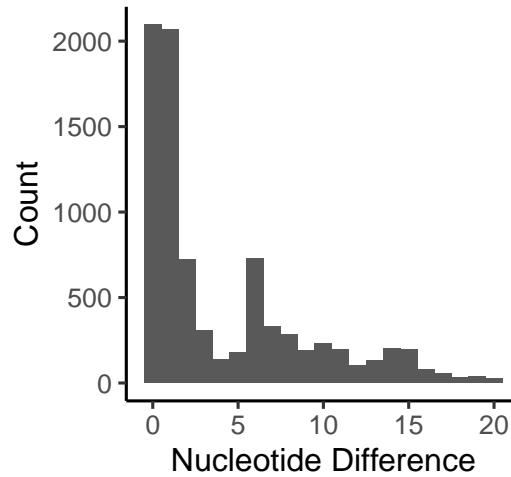
IGHV1-2*04

2176 sequences assigned
818 (37.6%) exact matches, in which:
690 unique CDR3
7 unique J



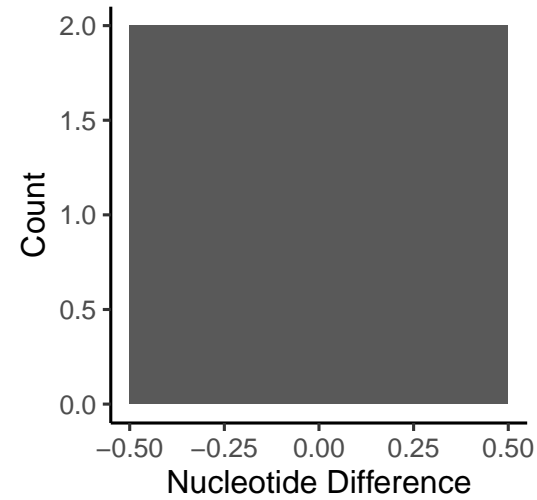
IGHV1-18*01

9178 sequences assigned
2096 (22.8%) exact matches, in which:
1729 unique CDR3
7 unique J



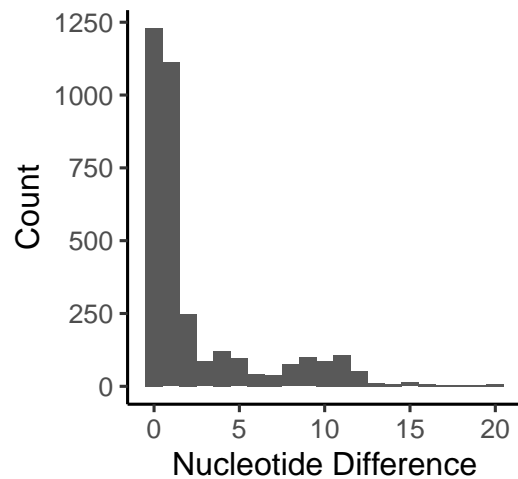
IGHV1-38-4*01

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
1 unique J



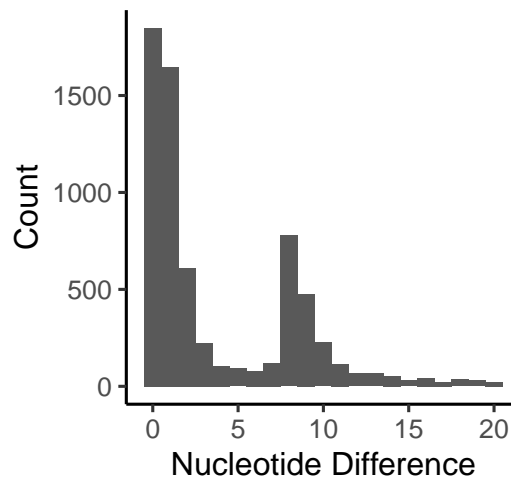
IGHV1-3*01_05

4325 sequences assigned
1230 (28.4%) exact matches, in which:
996 unique CDR3
7 unique J



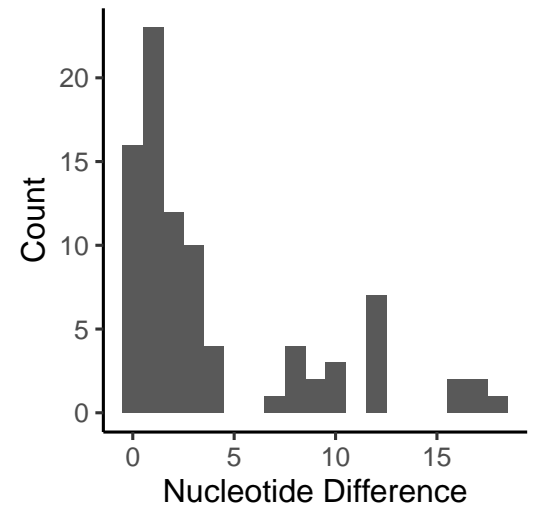
IGHV1-18*04

7333 sequences assigned
1848 (25.2%) exact matches, in which:
1582 unique CDR3
7 unique J



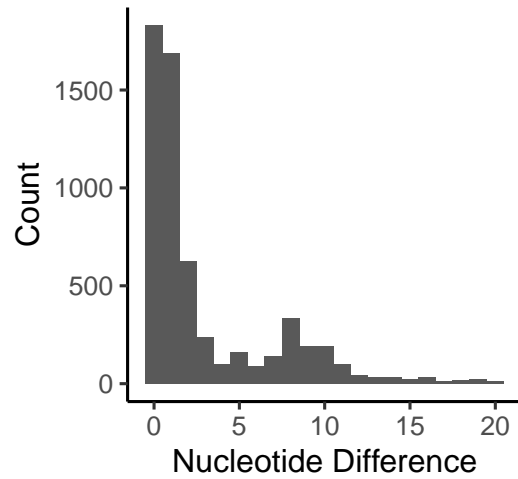
IGHV1-45*02

87 sequences assigned
16 (18.4%) exact matches, in which:
13 unique CDR3
6 unique J



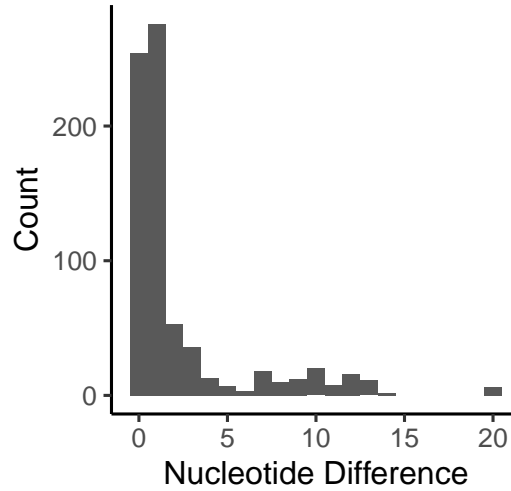
IGHV1-46*01

6520 sequences assigned
1830 (28.1%) exact matches, in which:
1597 unique CDR3
7 unique J



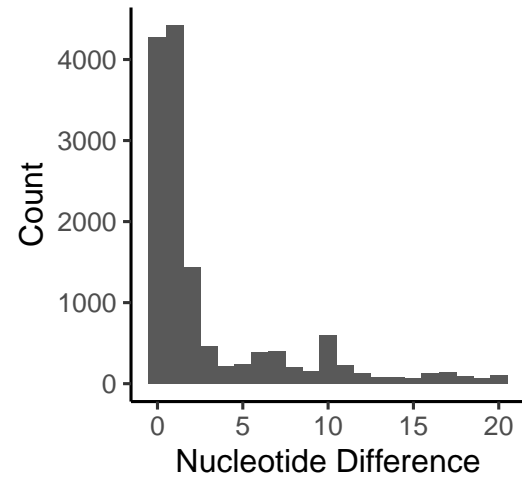
IGHV1-58*01_03

755 sequences assigned
254 (33.6%) exact matches, in which:
227 unique CDR3
7 unique J



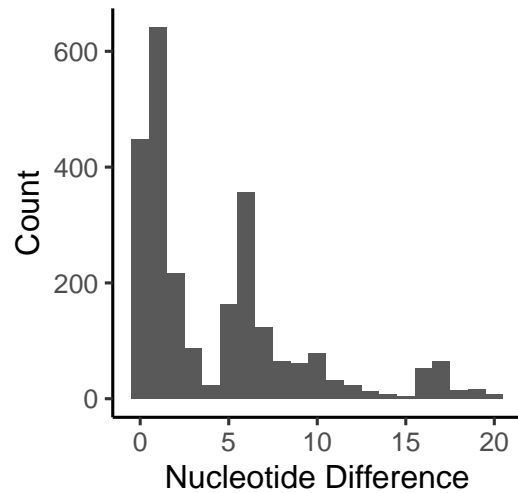
IGHV1-69*01_12_13

14535 sequences assigned
4274 (29.4%) exact matches, in which:
3588 unique CDR3
7 unique J



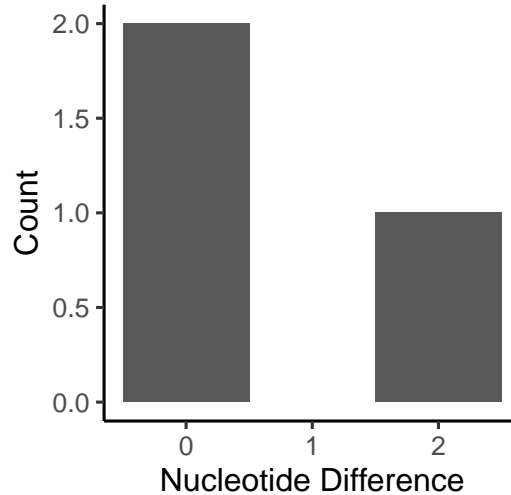
IGHV1-46*03

2524 sequences assigned
448 (17.7%) exact matches, in which:
302 unique CDR3
7 unique J



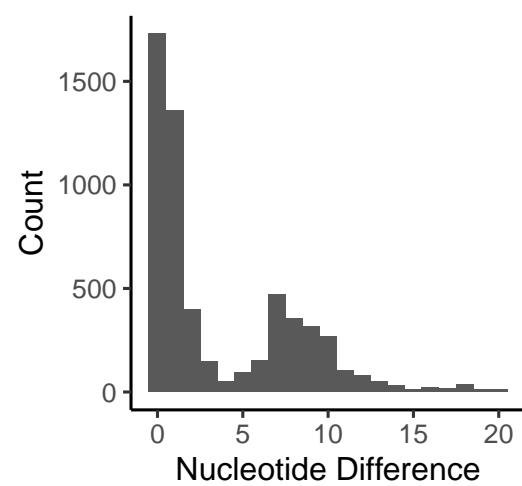
IGHV1-68*01

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



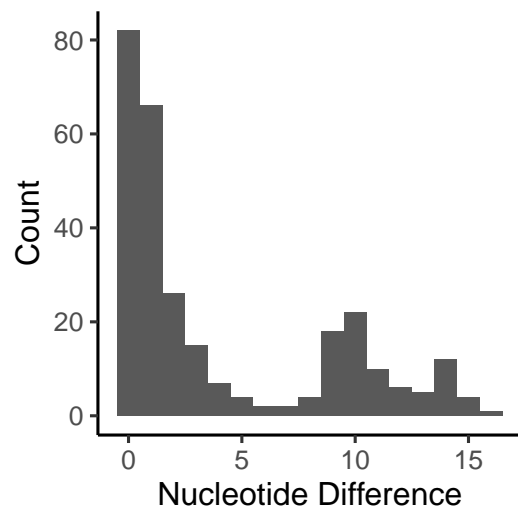
IGHV1-69*06_14

5782 sequences assigned
1730 (29.9%) exact matches, in which:
1526 unique CDR3
7 unique J



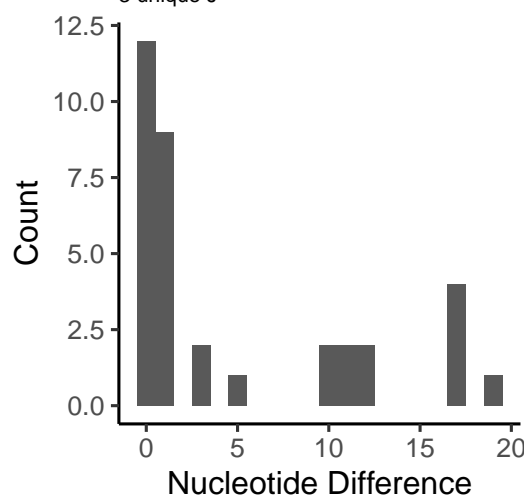
IGHV1-58*02

286 sequences assigned
82 (28.7%) exact matches, in which:
68 unique CDR3
6 unique J



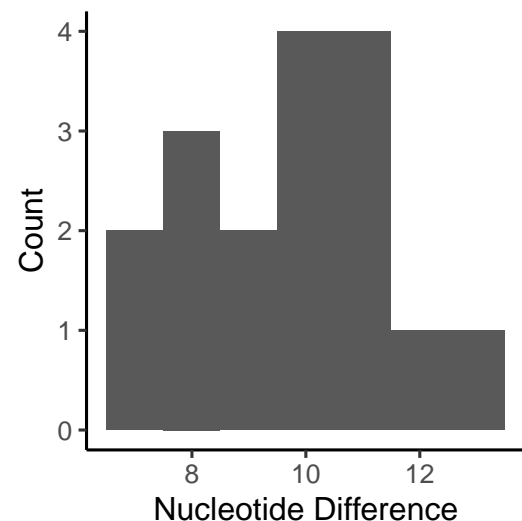
IGHV1-69-2*01

35 sequences assigned
12 (34.3%) exact matches, in which:
9 unique CDR3
3 unique J



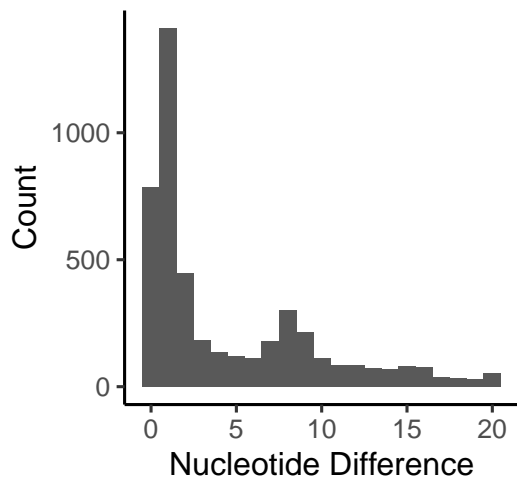
IGHV1-NL1*01

17 sequences assigned
No exact matches.



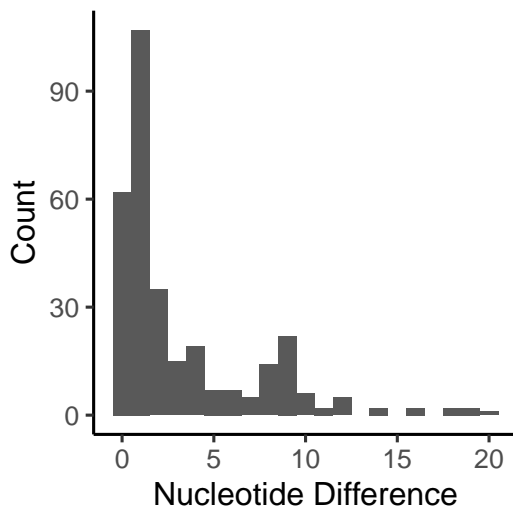
IGHV2-5*02

5226 sequences assigned
786 (15%) exact matches, in which:
566 unique CDR3
7 unique J



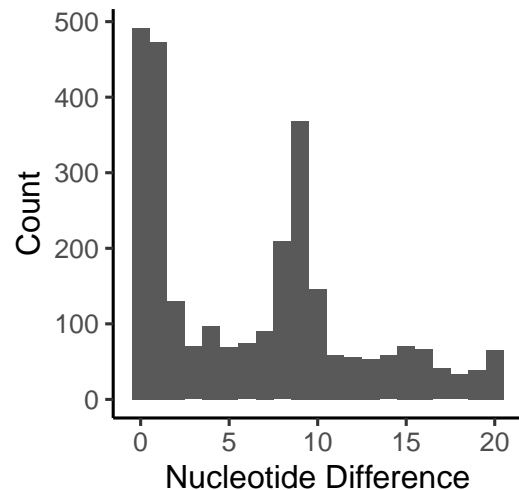
IGHV2-70*04

339 sequences assigned
62 (18.3%) exact matches, in which:
46 unique CDR3
7 unique J



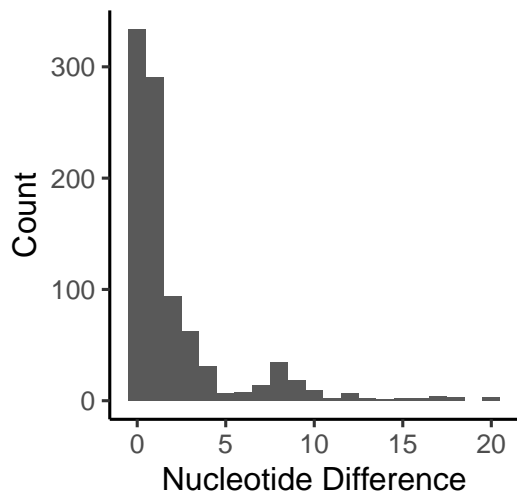
IGHV3-7*04

2927 sequences assigned
492 (16.8%) exact matches, in which:
312 unique CDR3
6 unique J



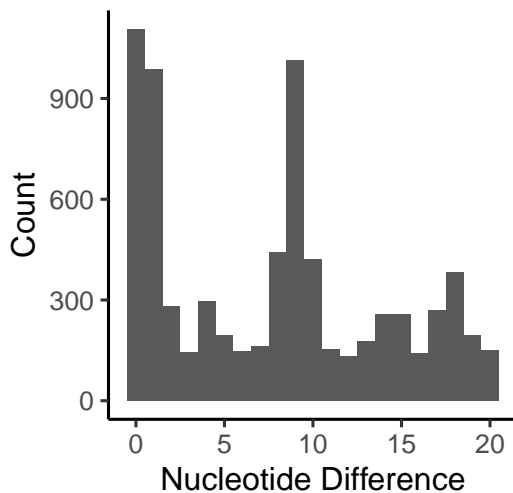
IGHV2-26*01

929 sequences assigned
334 (36%) exact matches, in which:
266 unique CDR3
7 unique J



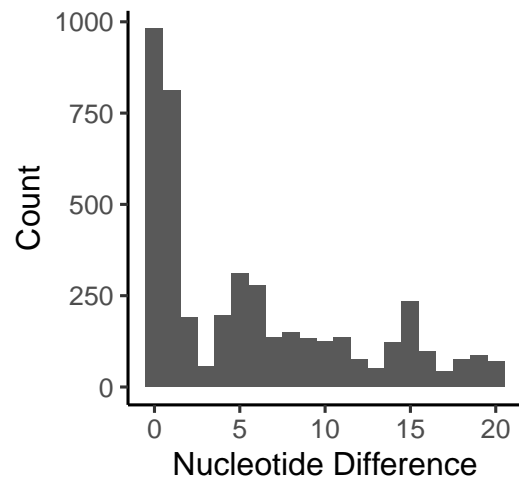
IGHV3-7*01

9436 sequences assigned
1107 (11.7%) exact matches, in which:
797 unique CDR3
7 unique J



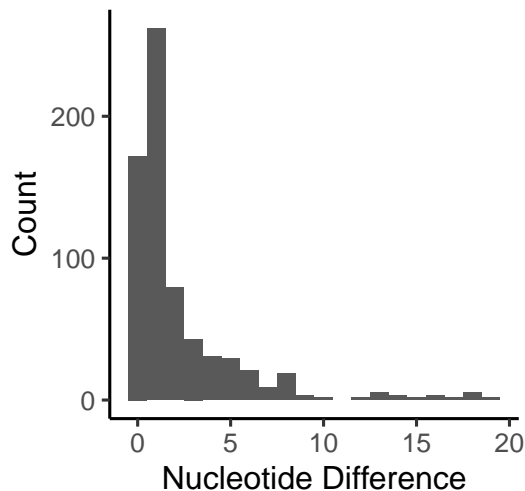
IGHV3-9*01

5171 sequences assigned
981 (19%) exact matches, in which:
572 unique CDR3
7 unique J



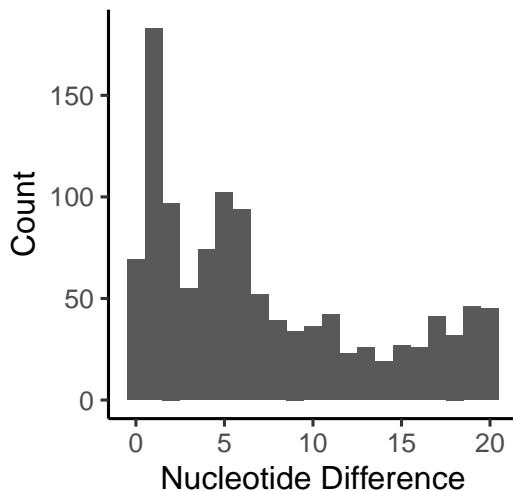
IGHV2-70*01

720 sequences assigned
172 (23.9%) exact matches, in which:
121 unique CDR3
6 unique J



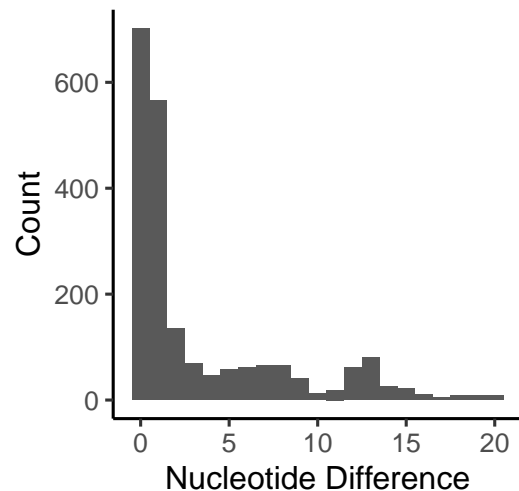
IGHV3-7*03

1692 sequences assigned
69 (4.1%) exact matches, in which:
60 unique CDR3
6 unique J



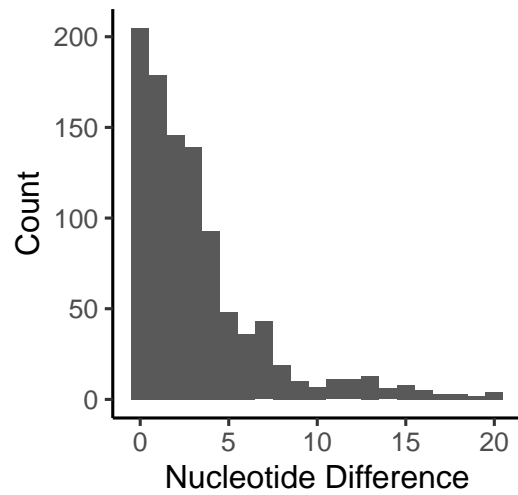
IGHV3-11*01

2196 sequences assigned
702 (32%) exact matches, in which:
501 unique CDR3
7 unique J



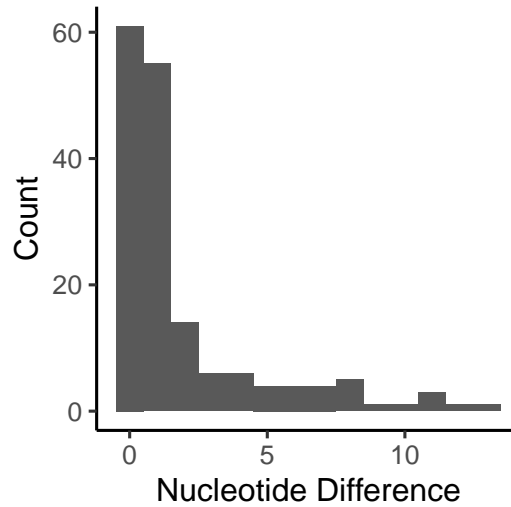
IGHV3-11*04

1027 sequences assigned
205 (20%) exact matches, in which:
192 unique CDR3
7 unique J



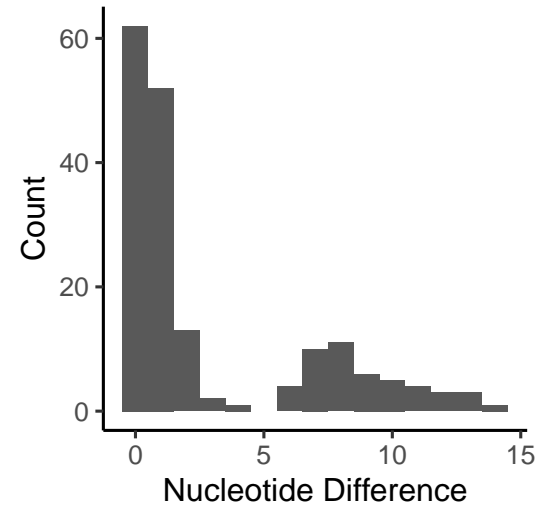
IGHV3-13*05

166 sequences assigned
61 (36.7%) exact matches, in which:
32 unique CDR3
5 unique J



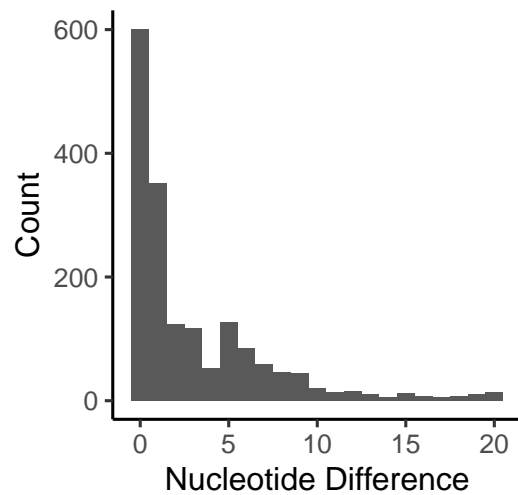
IGHV3-20*01_02

177 sequences assigned
62 (35%) exact matches, in which:
37 unique CDR3
5 unique J



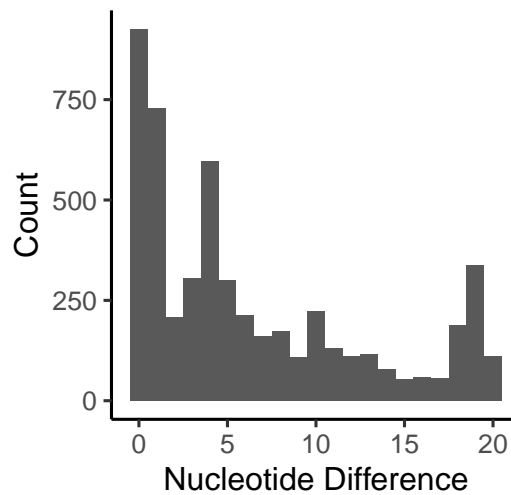
IGHV3-11*06

2091 sequences assigned
601 (28.7%) exact matches, in which:
426 unique CDR3
7 unique J



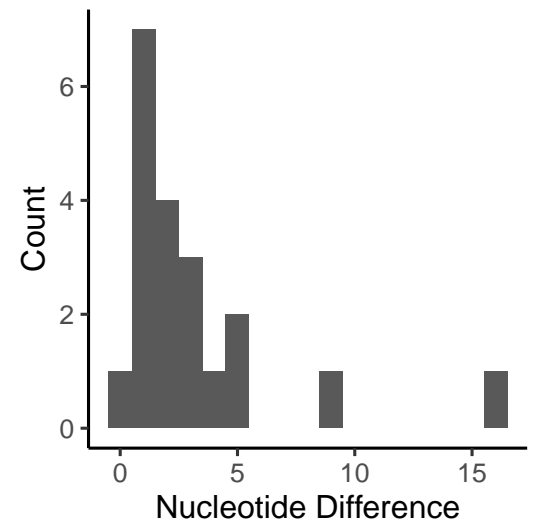
IGHV3-15*01_02

5622 sequences assigned
926 (16.5%) exact matches, in which:
557 unique CDR3
7 unique J



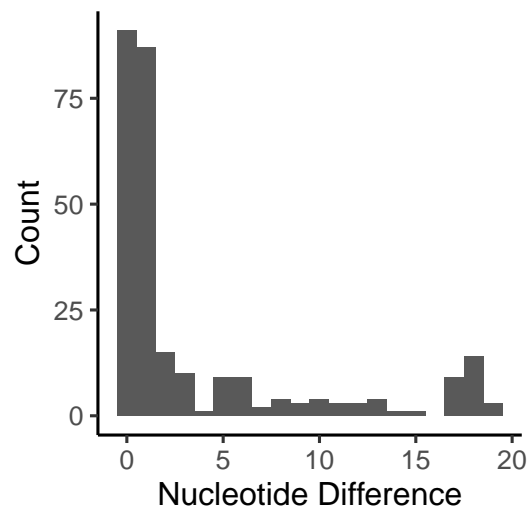
IGHV3-20*03_04

21 sequences assigned
1 (4.8%) exact matches, in which:
1 unique CDR3
1 unique J



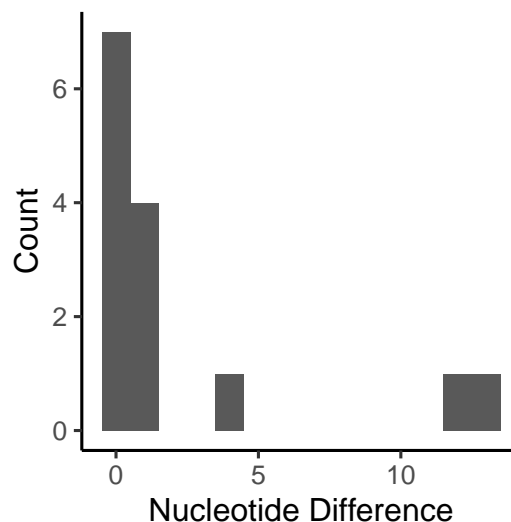
IGHV3-13*01

275 sequences assigned
91 (33.1%) exact matches, in which:
47 unique CDR3
6 unique J



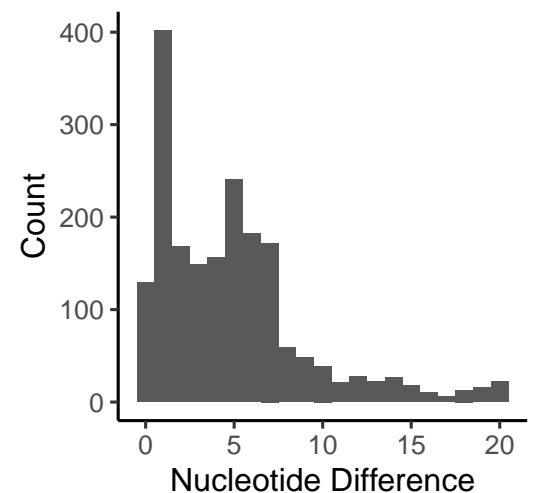
IGHV3-19*01

14 sequences assigned
7 (50%) exact matches, in which:
7 unique CDR3
2 unique J



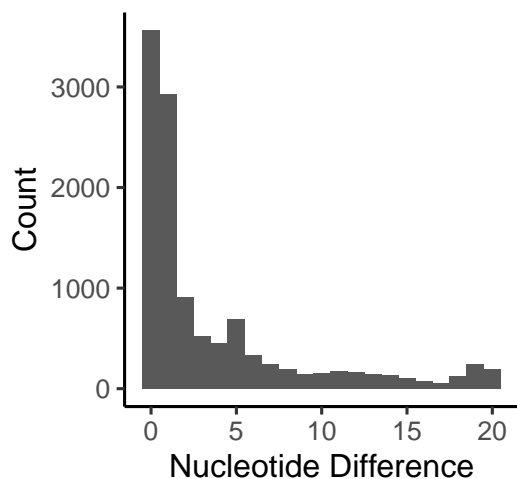
IGHV3-21*04

2016 sequences assigned
129 (6.4%) exact matches, in which:
117 unique CDR3
7 unique J



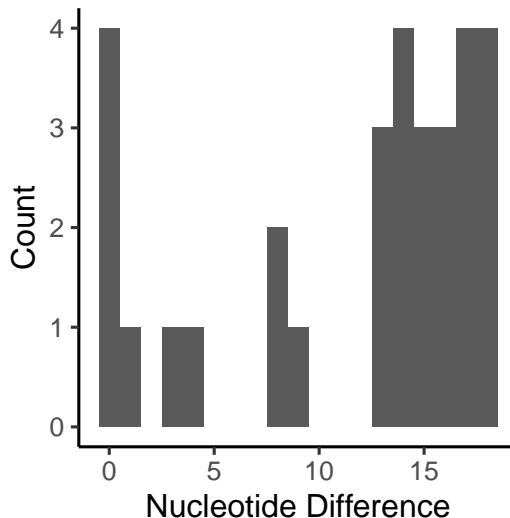
IGHV3-21*01_02

12265 sequences assigned
3562 (29%) exact matches, in which:
2260 unique CDR3
7 unique J



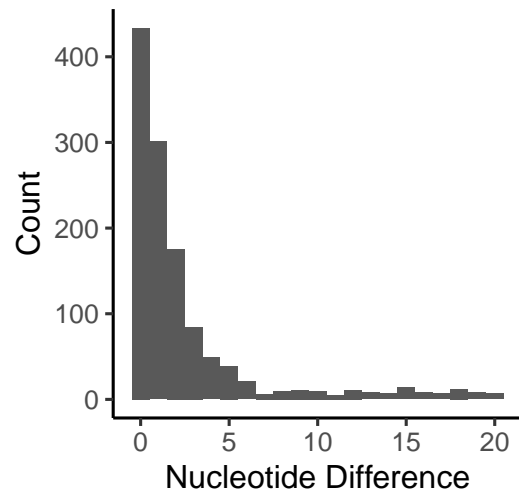
IGHV3-30-3*01

46 sequences assigned
4 (8.7%) exact matches, in which:
4 unique CDR3
2 unique J



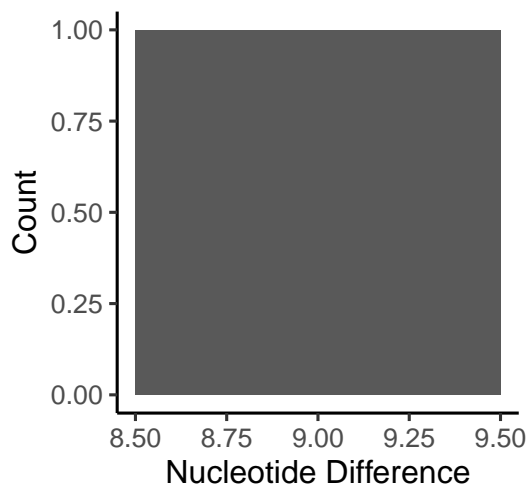
IGHV3-30*03

1285 sequences assigned
434 (33.8%) exact matches, in which:
396 unique CDR3
7 unique J



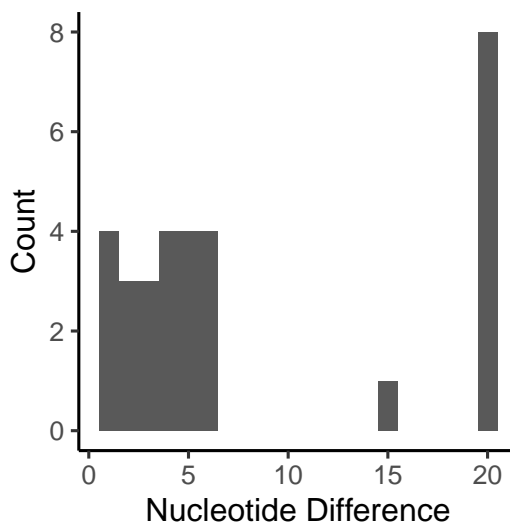
IGHV3-22*01_02

1 sequences assigned
No exact matches.



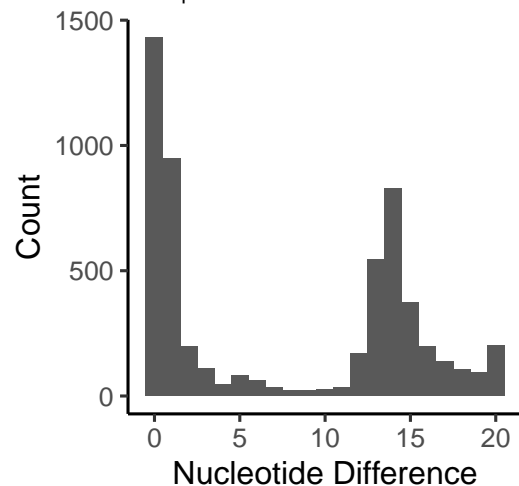
IGHV3-30-3*02

324 sequences assigned
No exact matches.



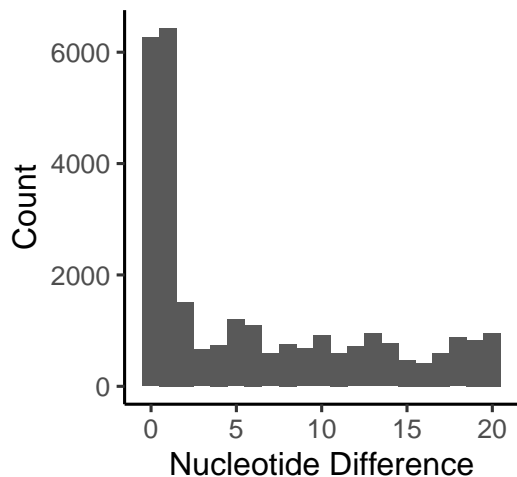
IGHV3-30*04

6219 sequences assigned
1430 (23%) exact matches, in which:
955 unique CDR3
7 unique J



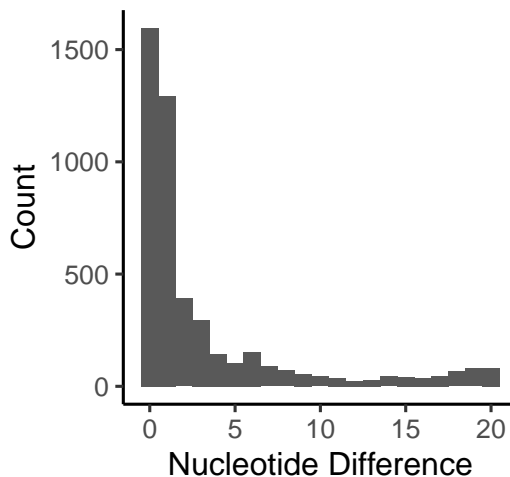
IGHV3-23*01_04

34703 sequences assigned
6267 (18.1%) exact matches, in which:
3507 unique CDR3
7 unique J



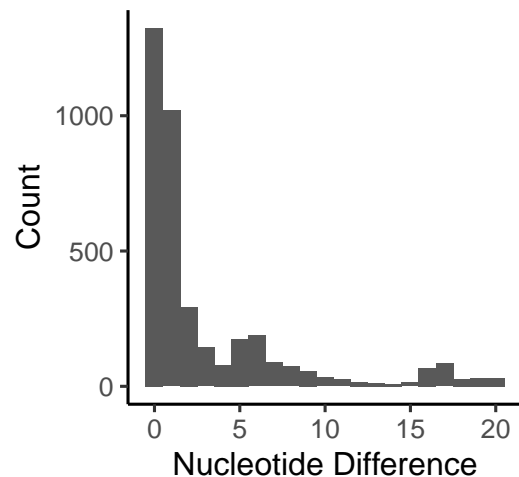
IGHV3-30*02

4900 sequences assigned
1596 (32.6%) exact matches, in which:
1098 unique CDR3
7 unique J



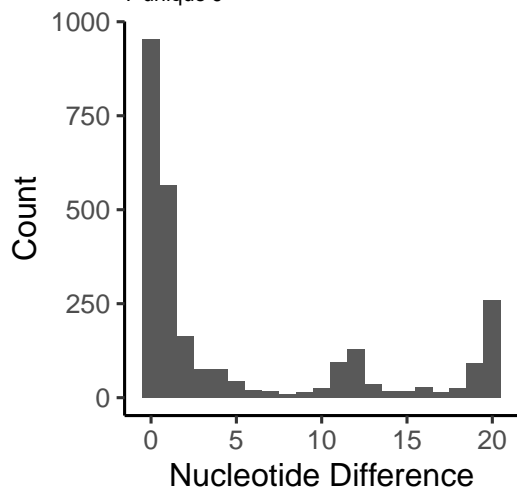
IGHV3-30*18

4111 sequences assigned
1324 (32.2%) exact matches, in which:
808 unique CDR3
7 unique J



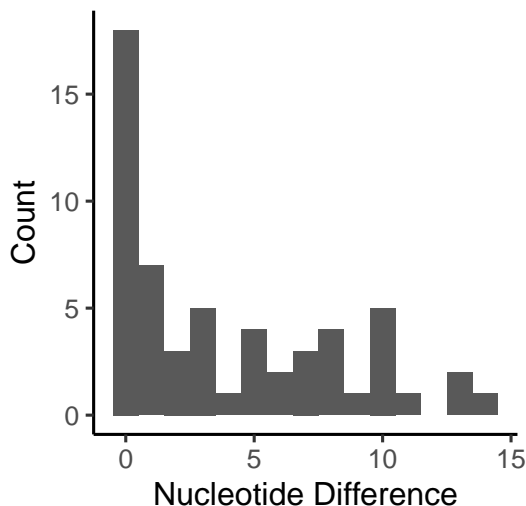
IGHV3-33*01

3102 sequences assigned
953 (30.7%) exact matches, in which:
678 unique CDR3
7 unique J



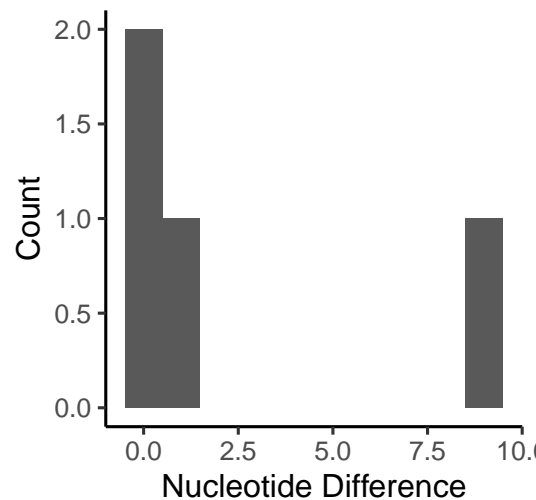
IGHV3-38-3*01

57 sequences assigned
18 (31.6%) exact matches, in which:
17 unique CDR3
5 unique J



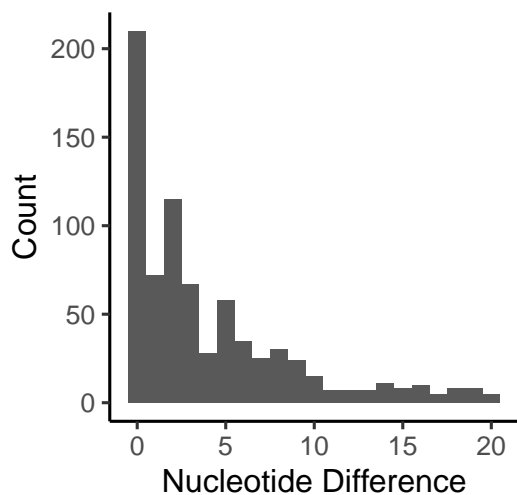
IGHV3-47*02

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



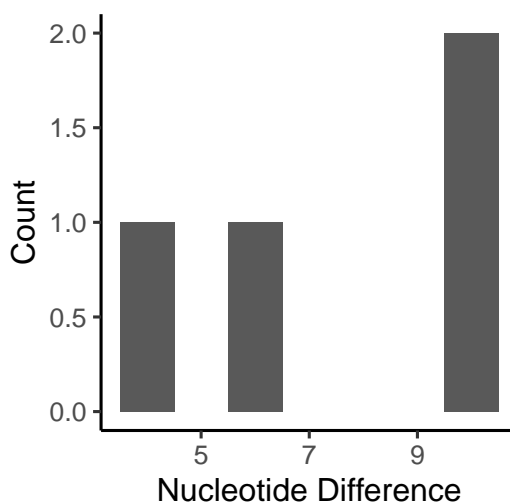
IGHV3-33*08

791 sequences assigned
210 (26.5%) exact matches, in which:
160 unique CDR3
6 unique J



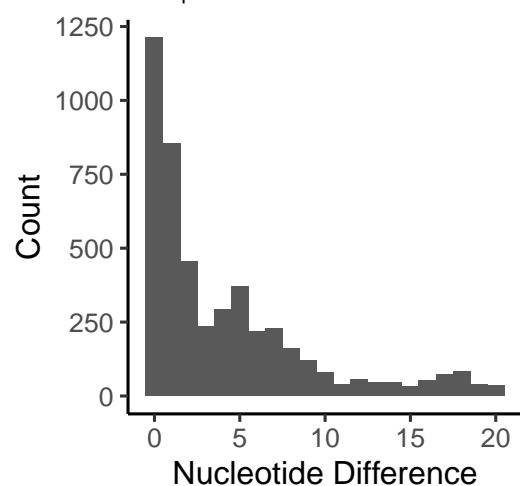
IGHV3-38*03

4 sequences assigned
No exact matches.



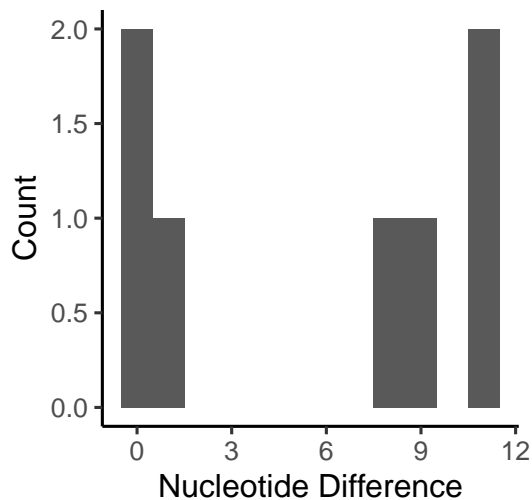
IGHV3-48*01

5508 sequences assigned
1212 (22%) exact matches, in which:
849 unique CDR3
7 unique J



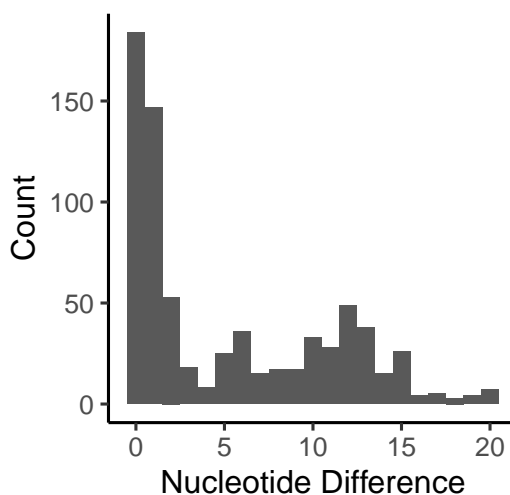
IGHV3-35*01

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



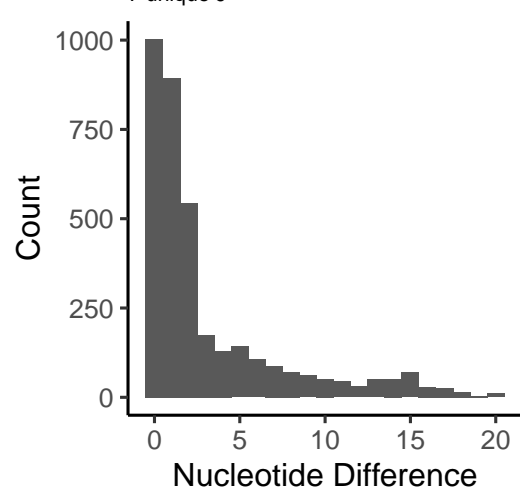
IGHV3-43*01

747 sequences assigned
184 (24.6%) exact matches, in which:
107 unique CDR3
7 unique J



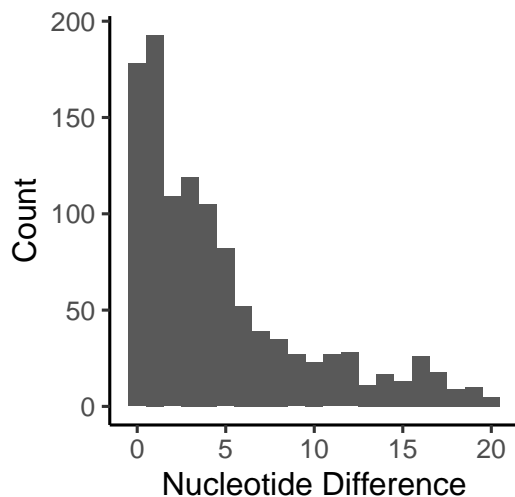
IGHV3-48*02

4853 sequences assigned
1003 (20.7%) exact matches, in which:
639 unique CDR3
7 unique J



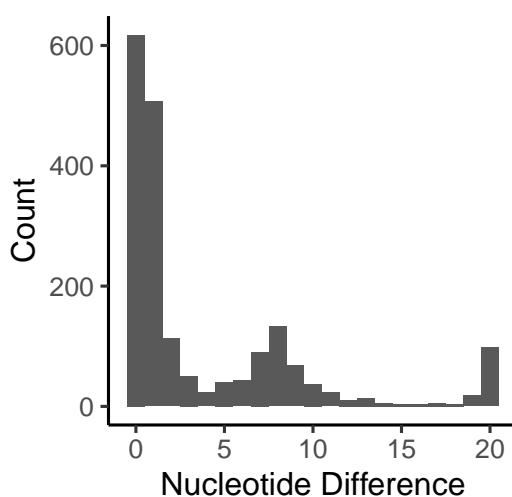
IGHV3-48*04

1210 sequences assigned
178 (14.7%) exact matches, in which:
163 unique CDR3
7 unique J



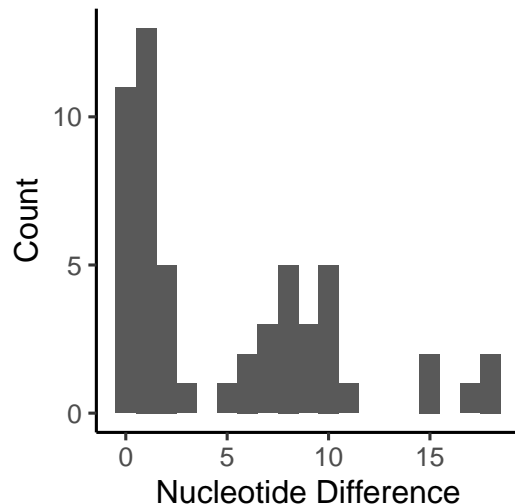
IGHV3-53*01_02

2305 sequences assigned
618 (26.8%) exact matches, in which:
394 unique CDR3
7 unique J



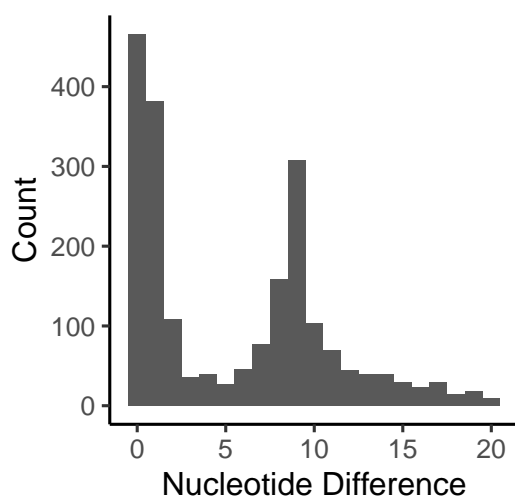
IGHV3-66*01

59 sequences assigned
11 (18.6%) exact matches, in which:
7 unique CDR3
4 unique J



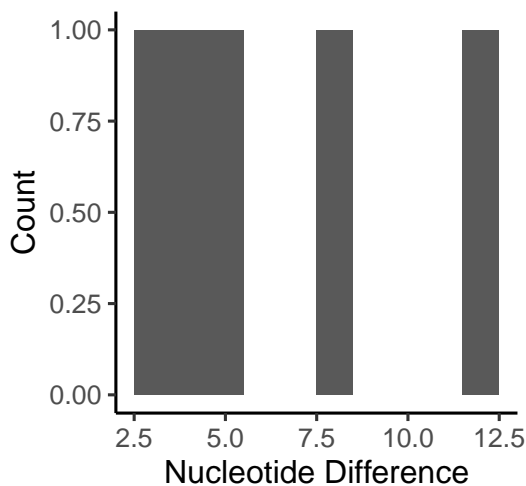
IGHV3-49*03_05

2100 sequences assigned
466 (22.2%) exact matches, in which:
282 unique CDR3
7 unique J



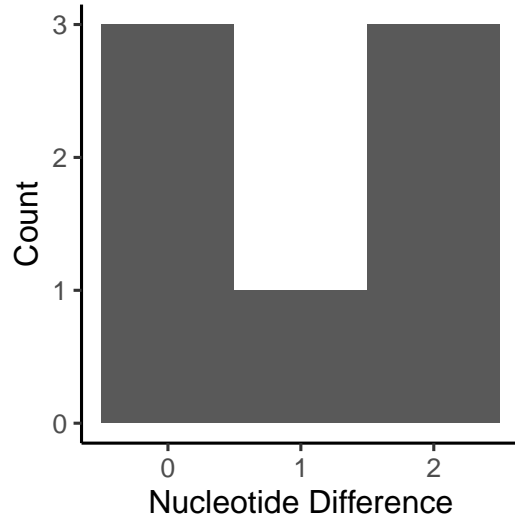
IGHV3-64*04

7 sequences assigned
No exact matches.



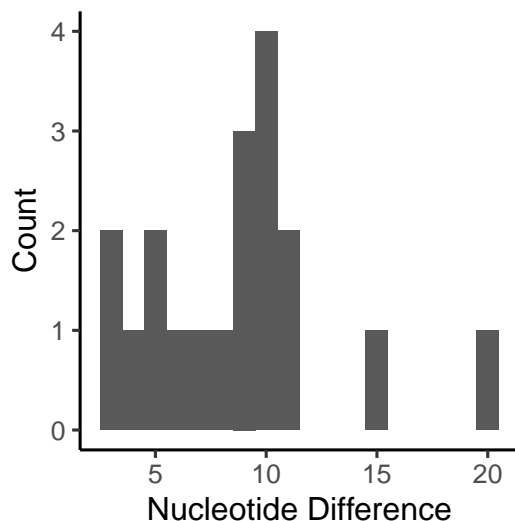
IGHV3-66*03

7 sequences assigned
3 (42.9%) exact matches, in which:
3 unique CDR3
3 unique J



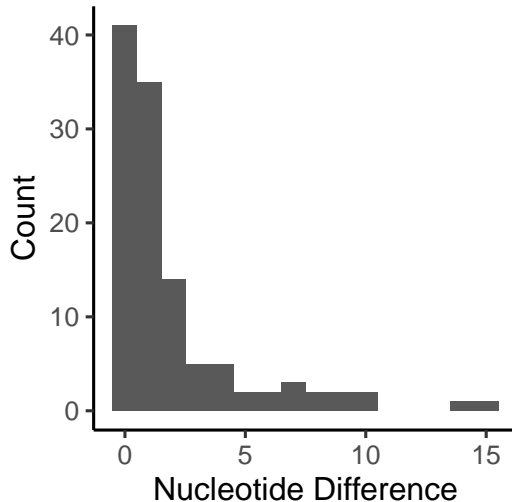
IGHV3-52*02

19 sequences assigned
No exact matches.



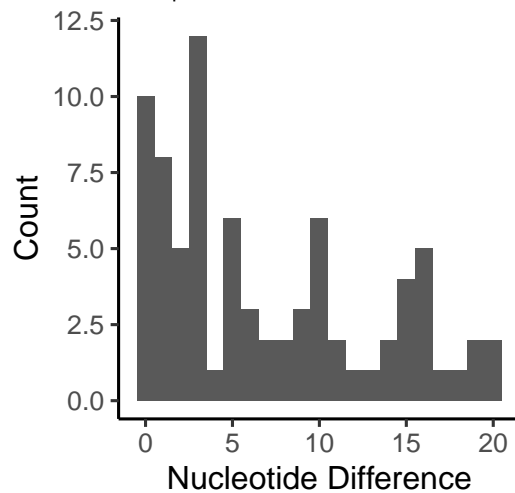
IGHV3-64*02_07

115 sequences assigned
41 (35.7%) exact matches, in which:
24 unique CDR3
4 unique J



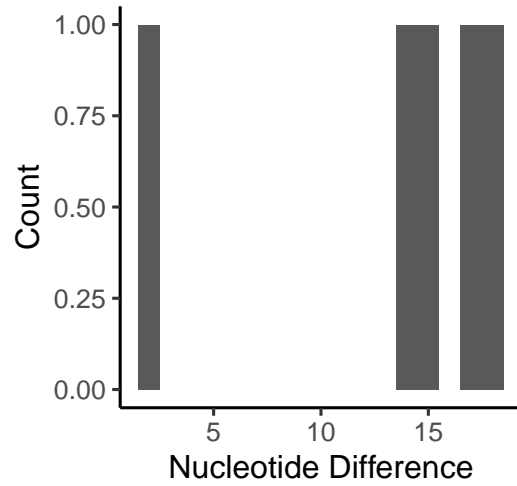
IGHV3-69-1*01

153 sequences assigned
10 (6.5%) exact matches, in which:
8 unique CDR3
2 unique J



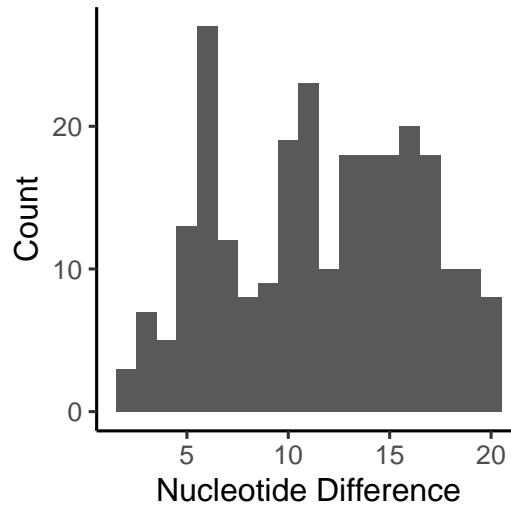
IGHV3-71*01_04

5 sequences assigned
No exact matches.



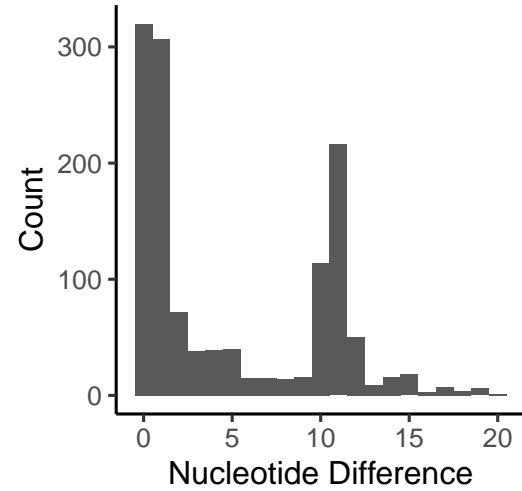
IGHV3-74*03

806 sequences assigned
No exact matches.



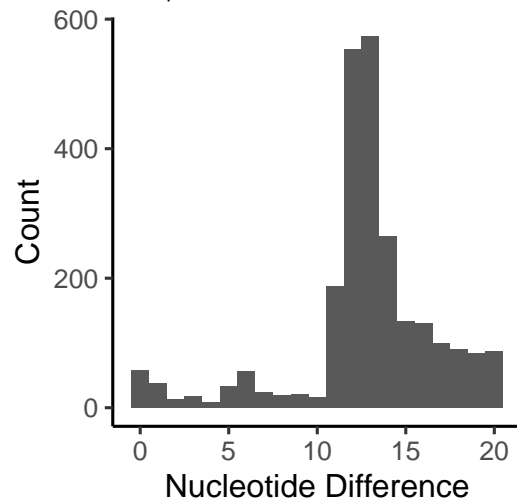
IGHV3-64D*06

1669 sequences assigned
320 (19.2%) exact matches, in which:
157 unique CDR3
5 unique J



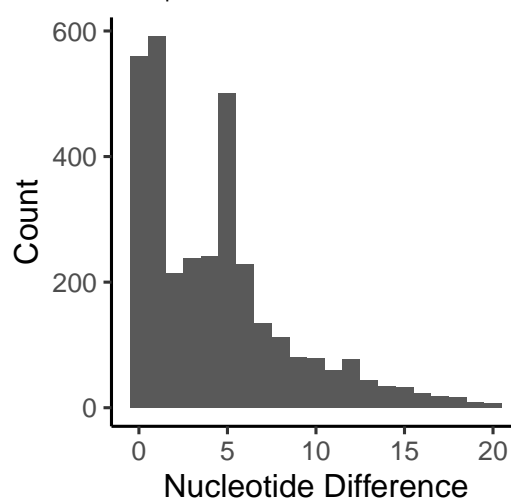
IGHV3-72*01

3920 sequences assigned
58 (1.5%) exact matches, in which:
43 unique CDR3
6 unique J



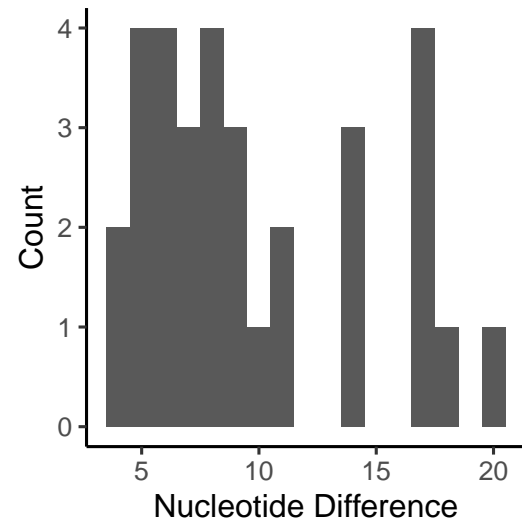
IGHV3-74*01_02

3328 sequences assigned
559 (16.8%) exact matches, in which:
299 unique CDR3
7 unique J



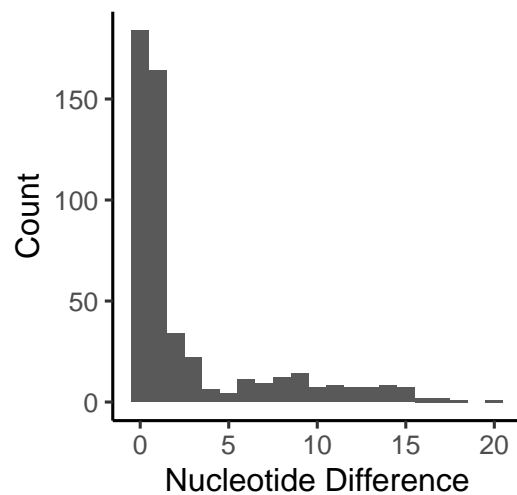
IGHV3-NL1*01

45 sequences assigned
No exact matches.



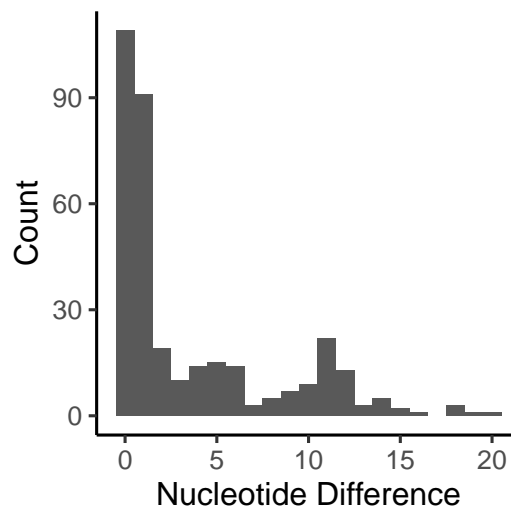
IGHV3-73*01_02

513 sequences assigned
184 (35.9%) exact matches, in which:
102 unique CDR3
6 unique J



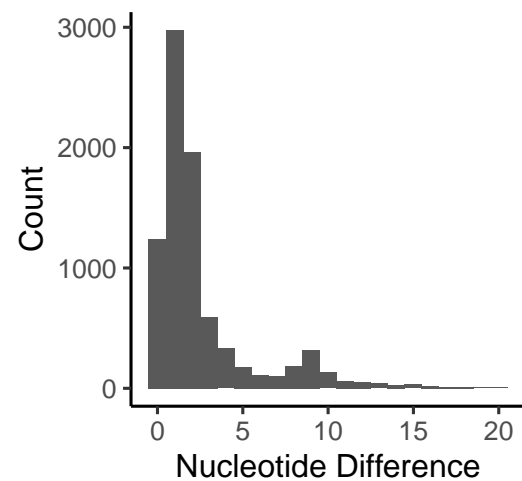
IGHV3-43D*03

608 sequences assigned
109 (17.9%) exact matches, in which:
70 unique CDR3
5 unique J



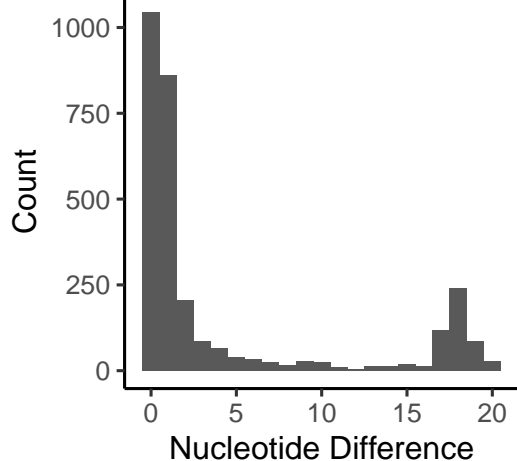
IGHV4-4*07

8794 sequences assigned
1240 (14.1%) exact matches, in which:
1035 unique CDR3
7 unique J



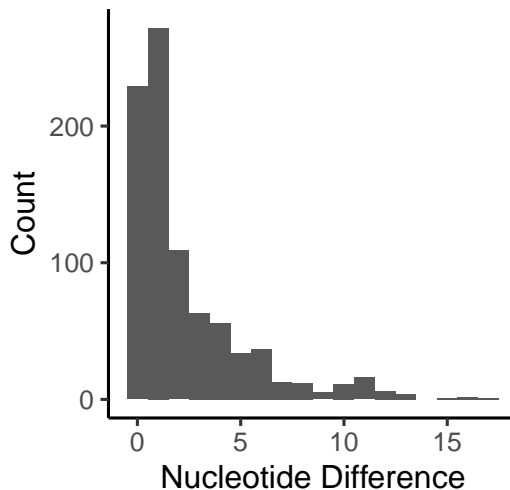
IGHV4-4*02_03

3023 sequences assigned
1044 (34.5%) exact matches, in which:
799 unique CDR3
7 unique J



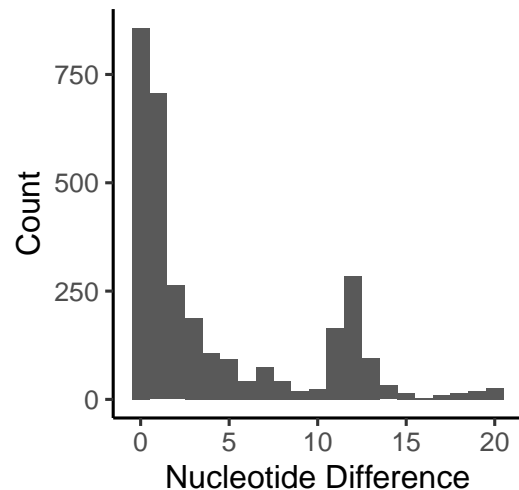
IGHV4-30-2*01

873 sequences assigned
229 (26.2%) exact matches, in which:
129 unique CDR3
6 unique J



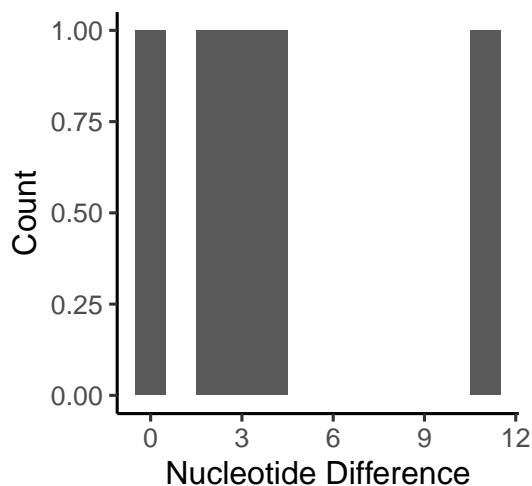
IGHV4-31*02

4977 sequences assigned
858 (17.2%) exact matches, in which:
720 unique CDR3
7 unique J



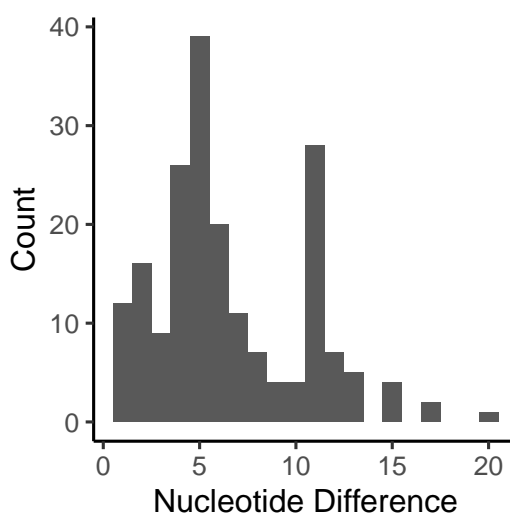
IGHV4-28*03

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



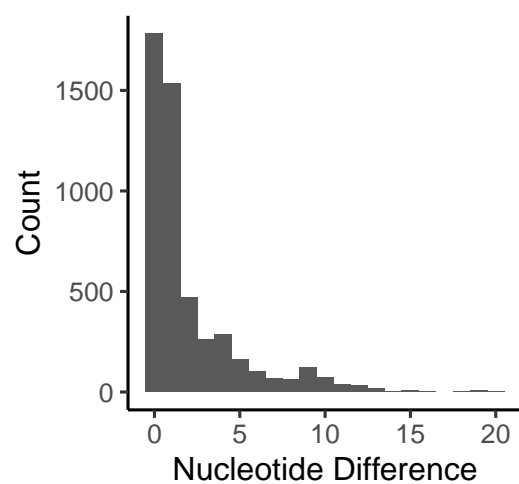
IGHV4-30-2*03

197 sequences assigned
No exact matches.



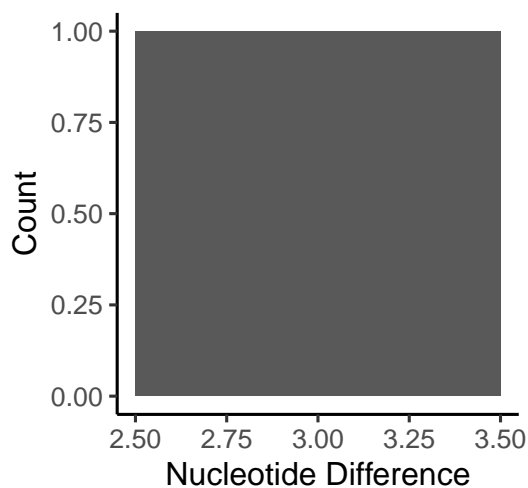
IGHV4-34*01_02

5033 sequences assigned
1782 (35.4%) exact matches, in which:
1309 unique CDR3
7 unique J



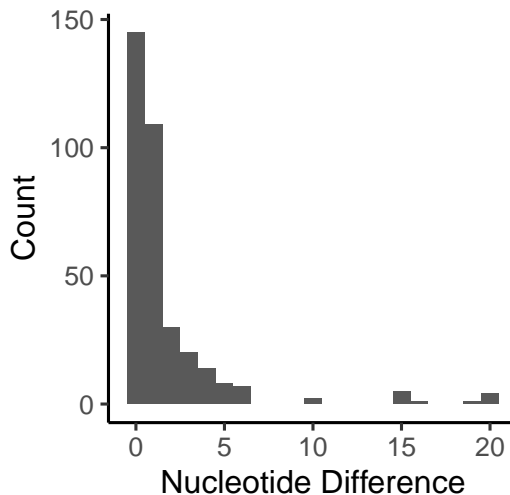
IGHV4-28*01_07

1 sequences assigned
No exact matches.



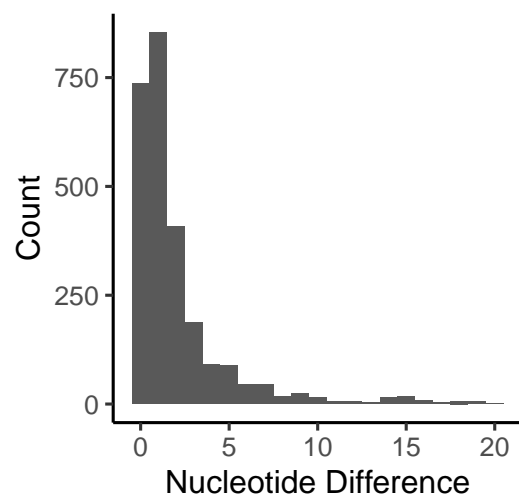
IGHV4-30-4*07

376 sequences assigned
145 (38.6%) exact matches, in which:
102 unique CDR3
7 unique J



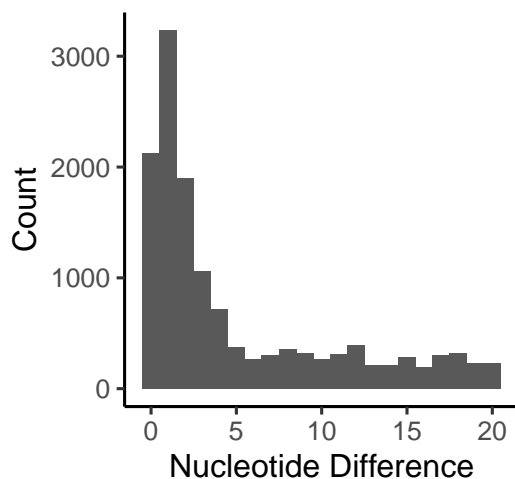
IGHV4-38-2*02

2625 sequences assigned
737 (28.1%) exact matches, in which:
624 unique CDR3
7 unique J



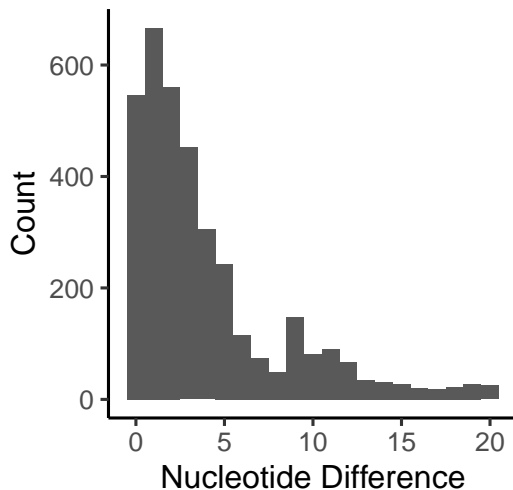
IGHV4-39*07

15397 sequences assigned
2122 (13.8%) exact matches, in which:
1638 unique CDR3
7 unique J



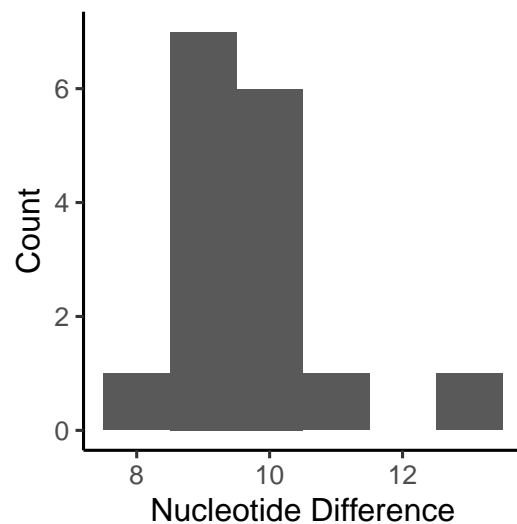
IGHV4-61*01

3677 sequences assigned
546 (14.8%) exact matches, in which:
494 unique CDR3
7 unique J



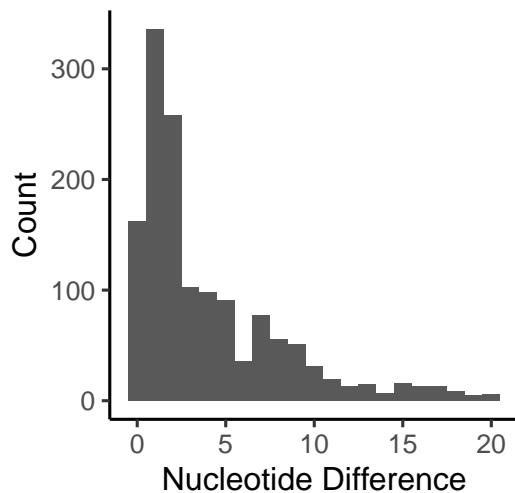
IGHV1/OR15-3*02

16 sequences assigned
No exact matches.



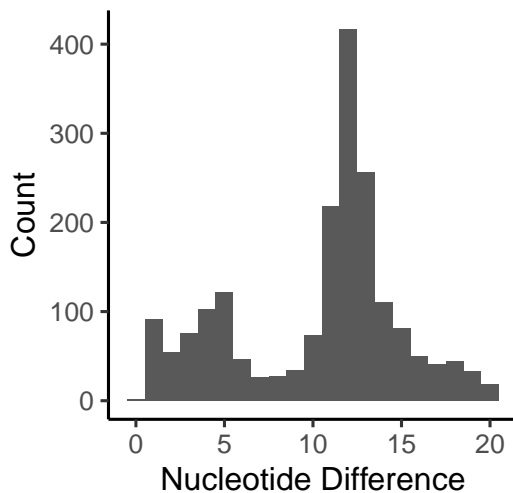
IGHV4-59*08

1453 sequences assigned
162 (11.1%) exact matches, in which:
153 unique CDR3
7 unique J



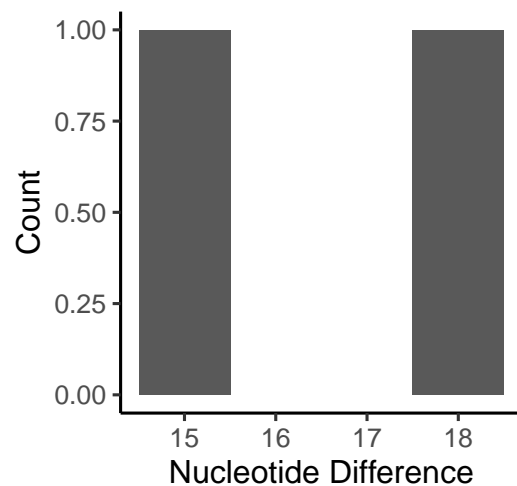
IGHV4-61*08

2050 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
2 unique J



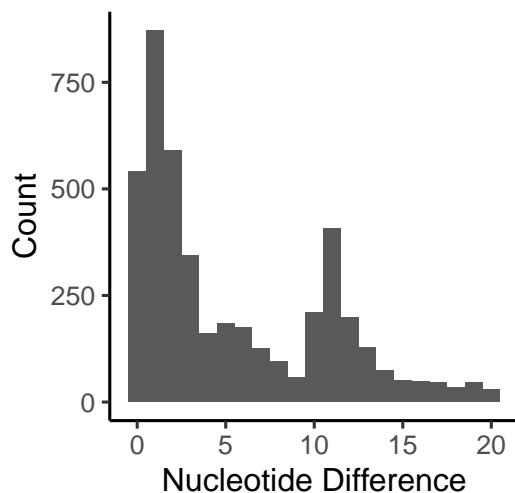
IGHV1/OR15-4*01

2 sequences assigned
No exact matches.



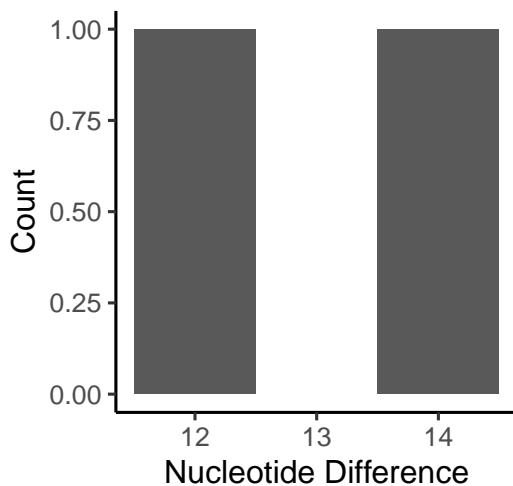
IGHV4-59*12

5612 sequences assigned
540 (9.6%) exact matches, in which:
522 unique CDR3
7 unique J



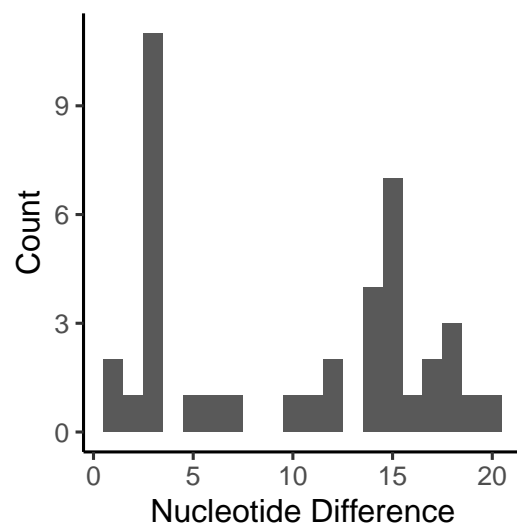
IGHV1/OR15-2*02_03

2 sequences assigned
No exact matches.

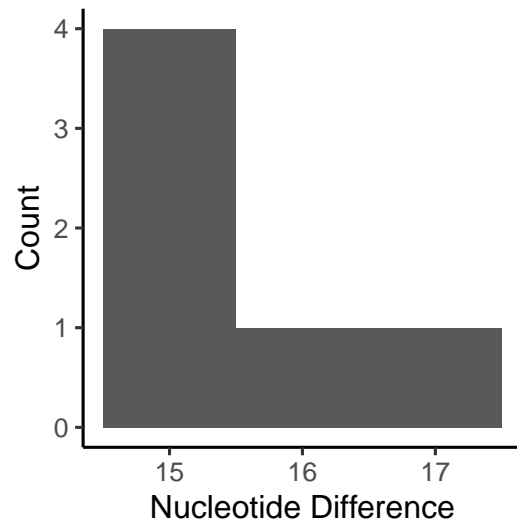


IGHV4/OR15-8*01

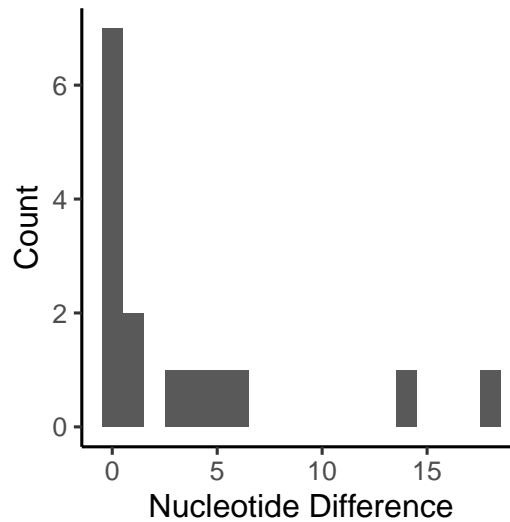
47 sequences assigned
No exact matches.



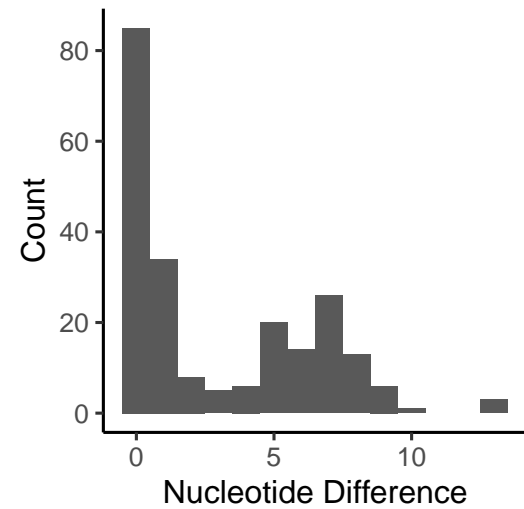
24 sequences assigned
No exact matches.



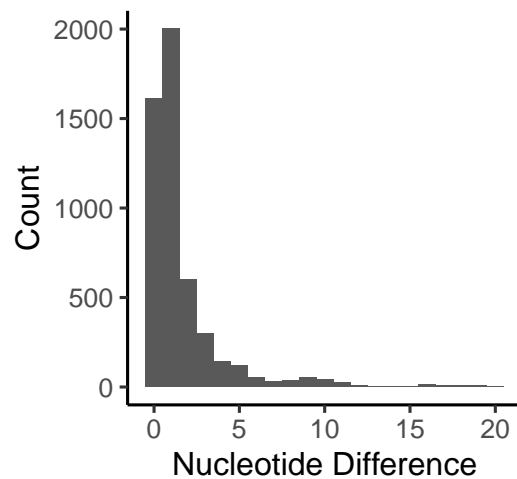
15 sequences assigned
7 (46.7%) exact matches, in which:
7 unique CDR3
1 unique J



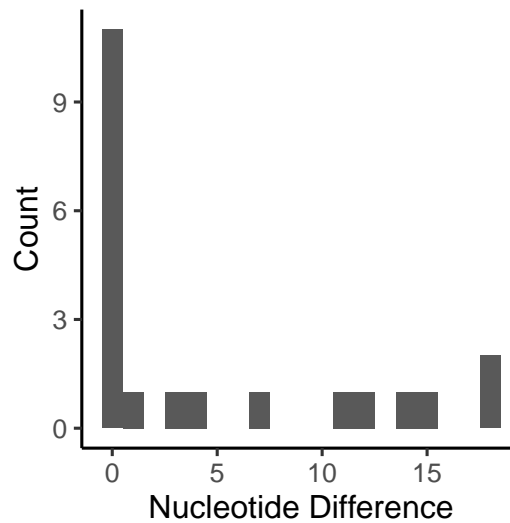
227 sequences assigned
85 (37.4%) exact matches, in which:
85 unique CDR3
5 unique J



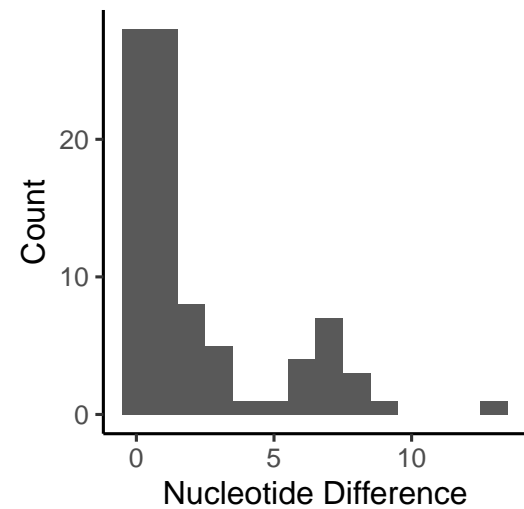
5381 sequences assigned
1611 (29.9%) exact matches, in which:
990 unique CDR3
7 unique J



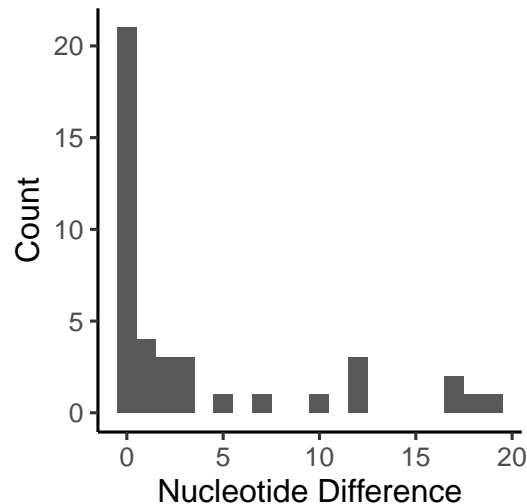
22 sequences assigned
11 (50%) exact matches, in which:
11 unique CDR3
4 unique J



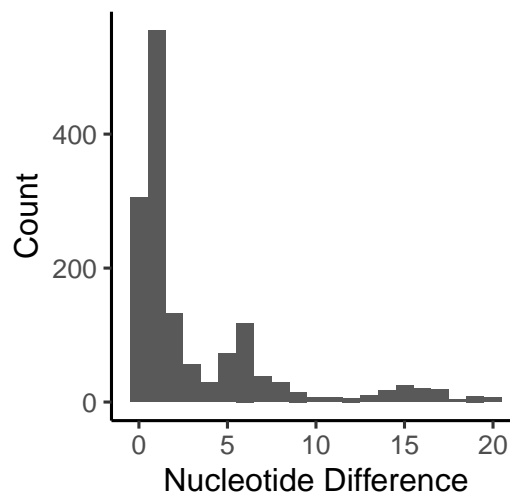
87 sequences assigned
28 (32.2%) exact matches, in which:
23 unique CDR3
7 unique J



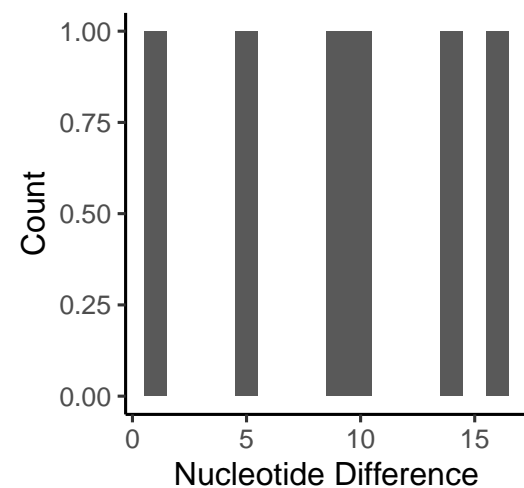
46 sequences assigned
21 (45.7%) exact matches, in which:
21 unique CDR3
5 unique J



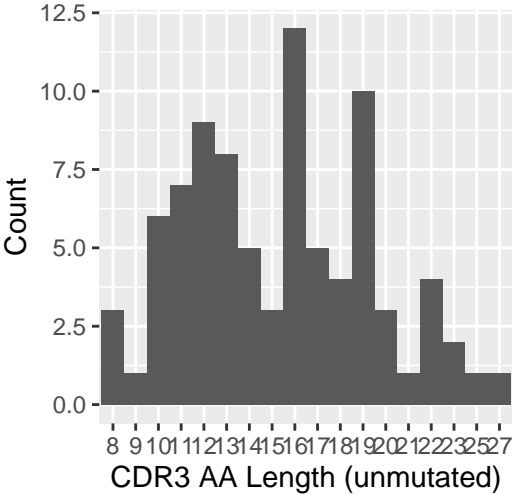
2201 sequences assigned
306 (13.9%) exact matches, in which:
231 unique CDR3
6 unique J



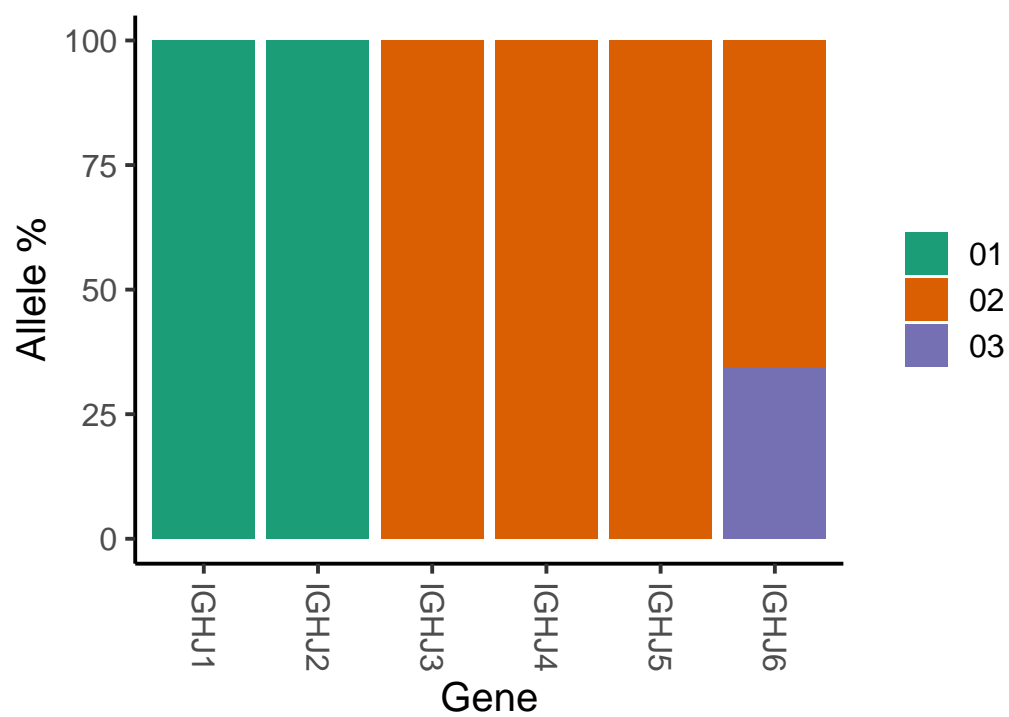
6 sequences assigned
No exact matches.



IGHV6-1*01_02_A315G



Allele Usage



Sequence Count by IGHJ6 allele usage

