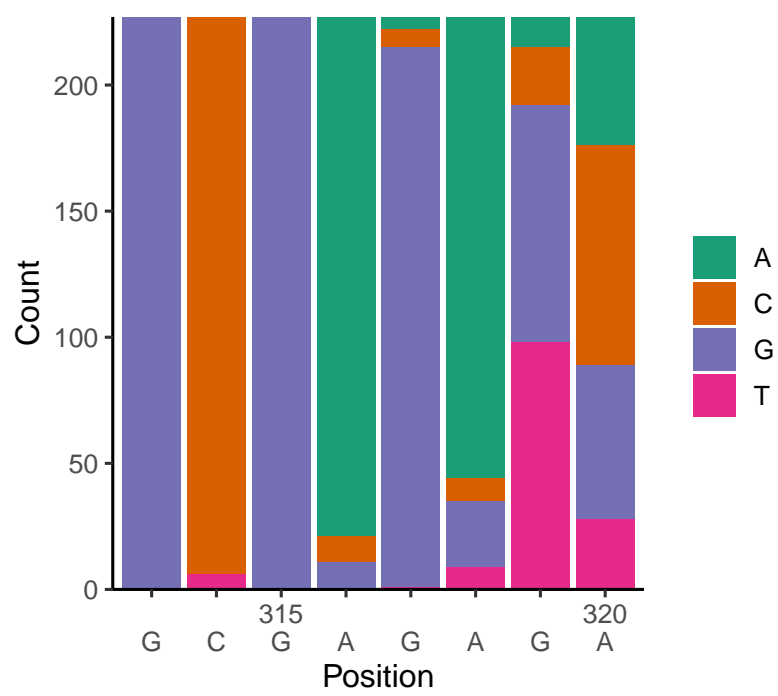
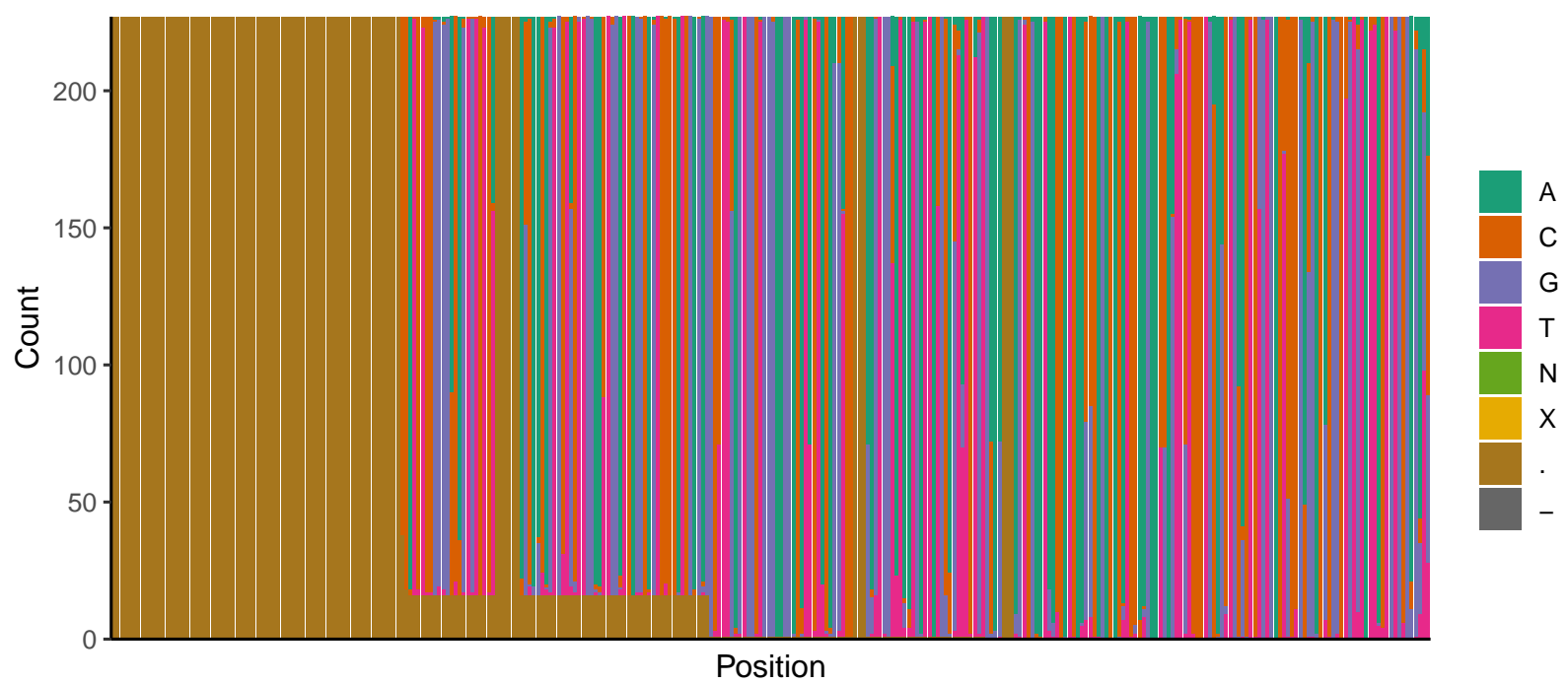


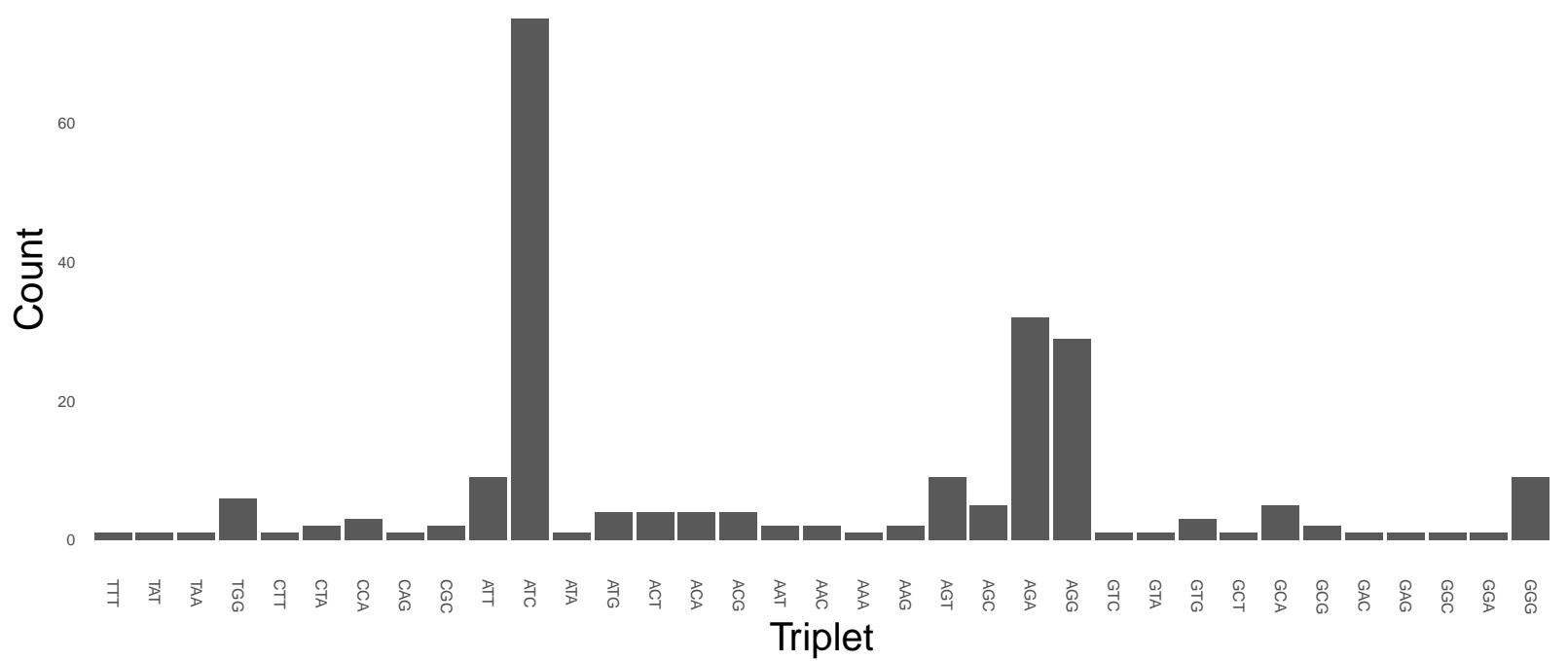
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

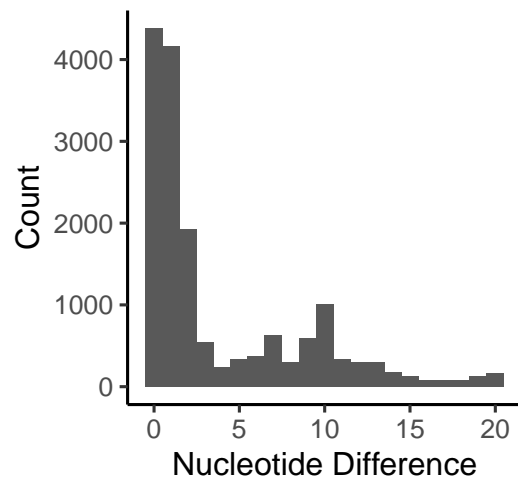


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



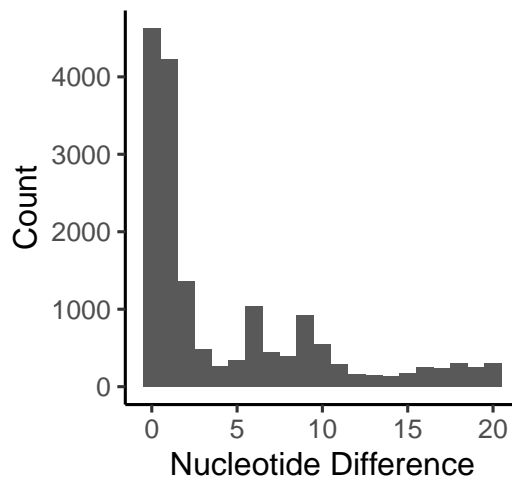
IGHV1-2*02

20782 sequences assigned
4381 (21.1%) exact matches, in which:
3800 unique CDR3
7 unique J



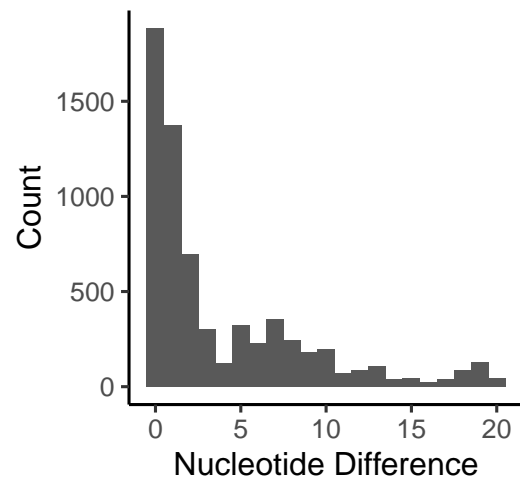
IGHV1-18*01

25263 sequences assigned
4625 (18.3%) exact matches, in which:
3982 unique CDR3
7 unique J



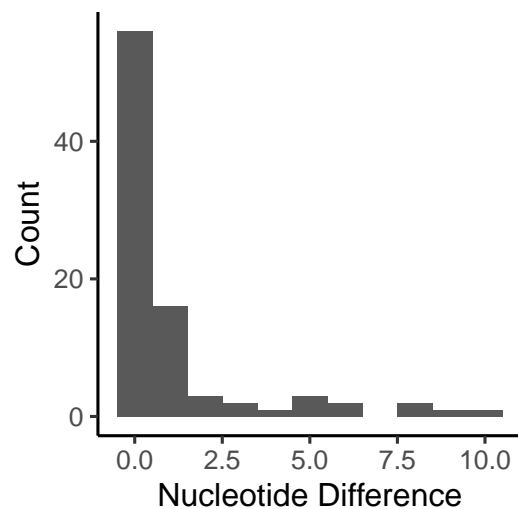
IGHV1-46*01

8170 sequences assigned
1883 (23%) exact matches, in which:
1720 unique CDR3
7 unique J



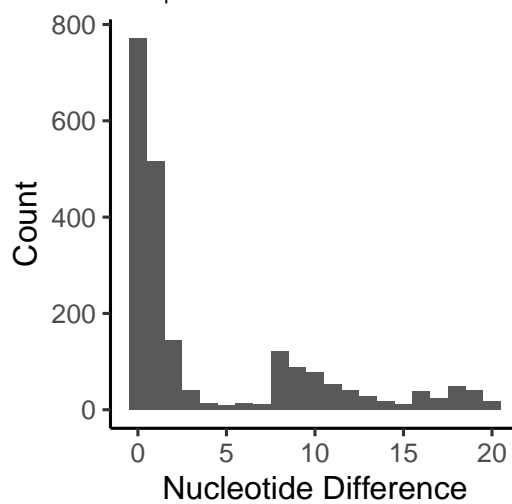
IGHV1-3*02

89 sequences assigned
56 (62.9%) exact matches, in which:
54 unique CDR3
6 unique J



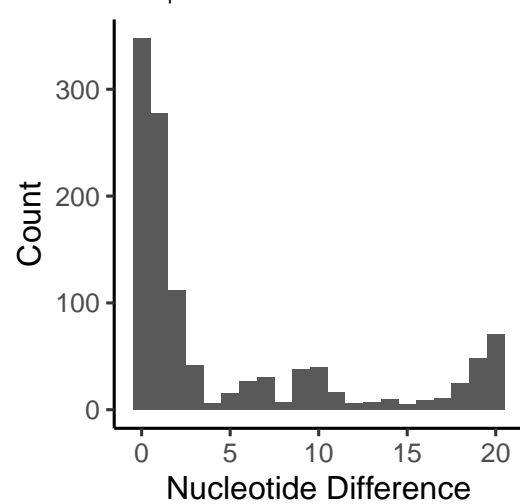
IGHV1-24*01

2322 sequences assigned
772 (33.2%) exact matches, in which:
710 unique CDR3
7 unique J



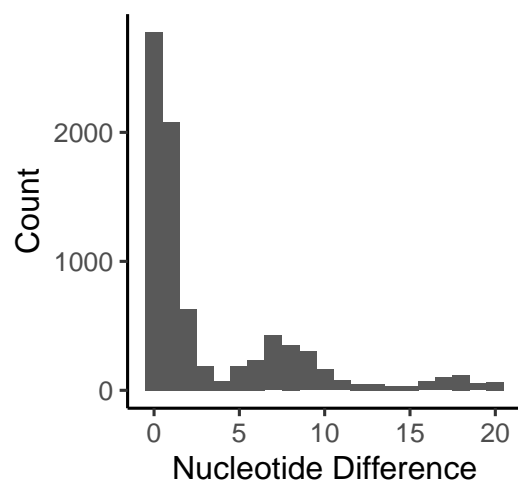
IGHV1-46*03

1219 sequences assigned
348 (28.5%) exact matches, in which:
288 unique CDR3
6 unique J



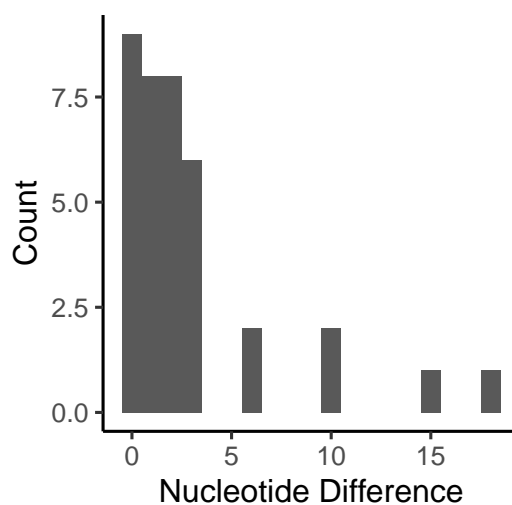
IGHV1-8*01

10563 sequences assigned
2778 (26.3%) exact matches, in which:
2481 unique CDR3
7 unique J



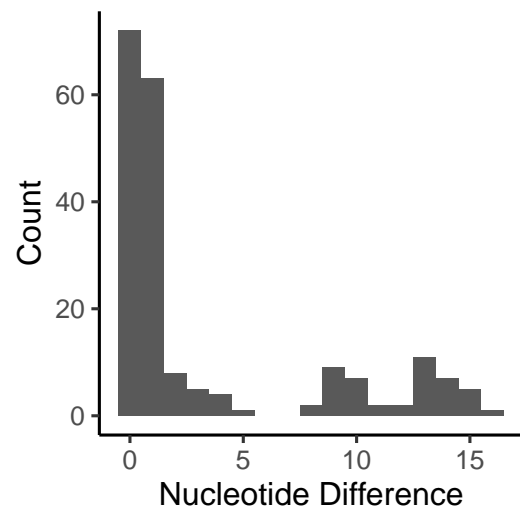
IGHV1-45*02

37 sequences assigned
9 (24.3%) exact matches, in which:
9 unique CDR3
2 unique J



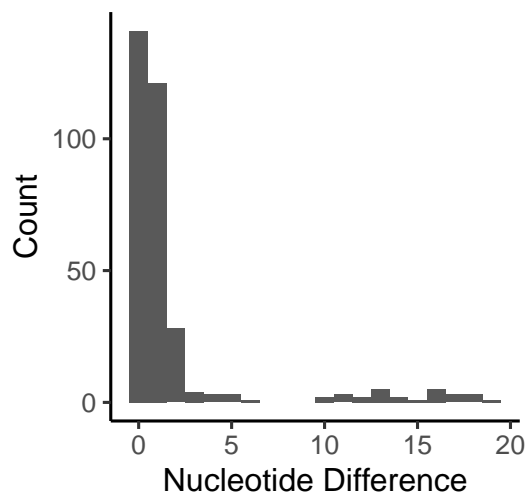
IGHV1-58*02

199 sequences assigned
72 (36.2%) exact matches, in which:
64 unique CDR3
6 unique J



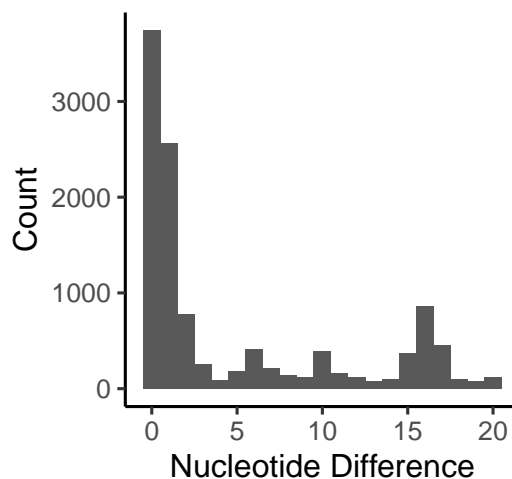
IGHV1-58*01_03

369 sequences assigned
141 (38.2%) exact matches, in which:
108 unique CDR3
6 unique J



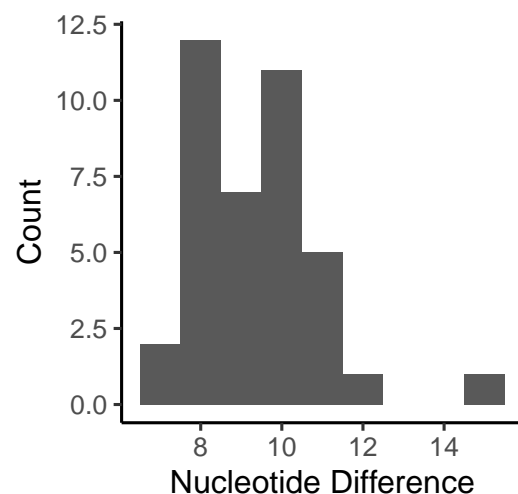
IGHV1-69*01_12_13

13462 sequences assigned
3742 (27.8%) exact matches, in which:
3392 unique CDR3
7 unique J



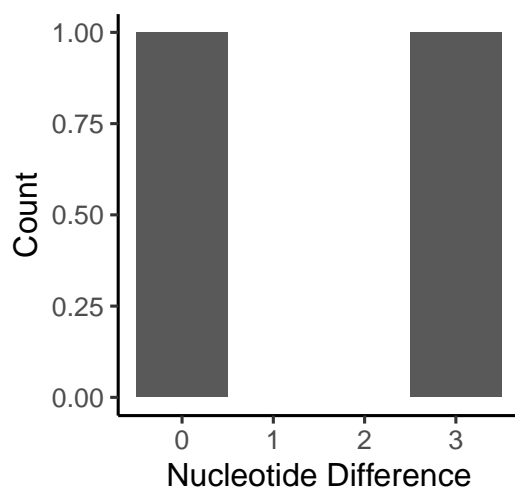
IGHV1-NL1*01

40 sequences assigned
No exact matches.



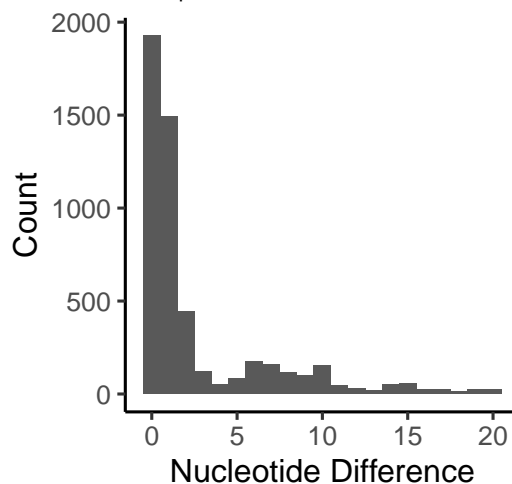
IGHV1-68*01

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



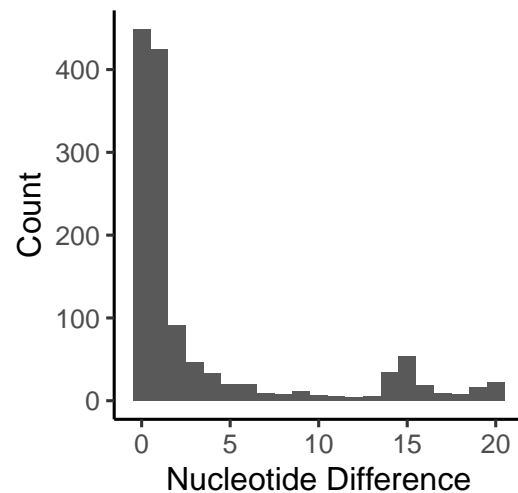
IGHV1-69*04_09

6943 sequences assigned
1927 (27.8%) exact matches, in which:
1791 unique CDR3
7 unique J



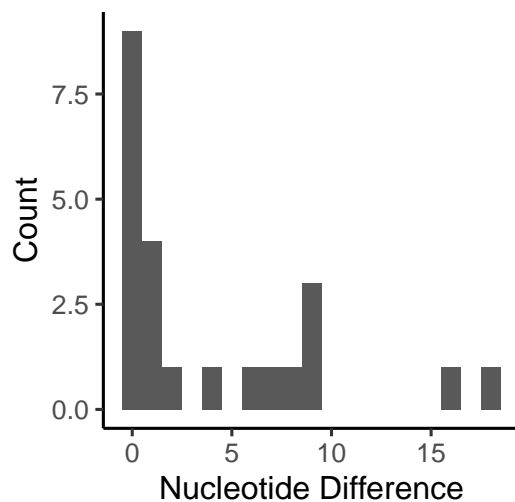
IGHV2-5*01

1944 sequences assigned
449 (23.1%) exact matches, in which:
384 unique CDR3
6 unique J



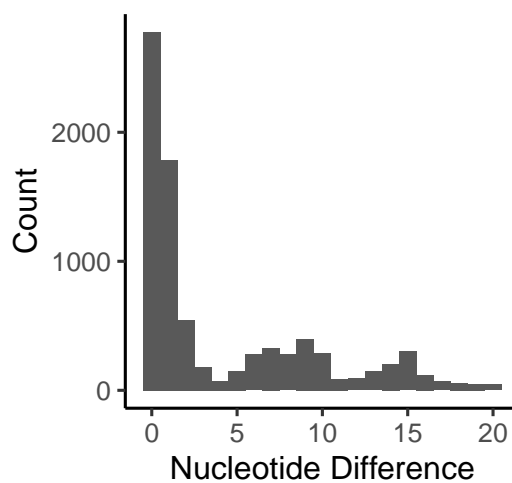
IGHV1-69-2*01

44 sequences assigned
9 (20.5%) exact matches, in which:
9 unique CDR3
3 unique J



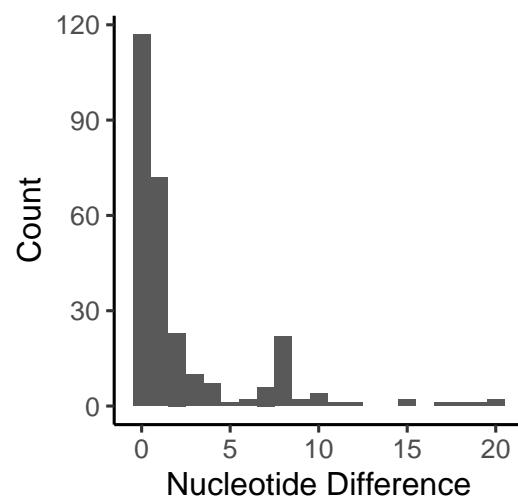
IGHV1-69*06_14

8860 sequences assigned
2777 (31.3%) exact matches, in which:
2559 unique CDR3
7 unique J



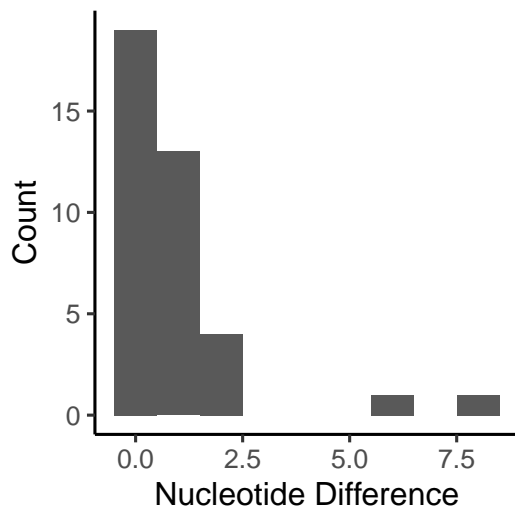
IGHV2-26*01

278 sequences assigned
117 (42.1%) exact matches, in which:
98 unique CDR3
5 unique J



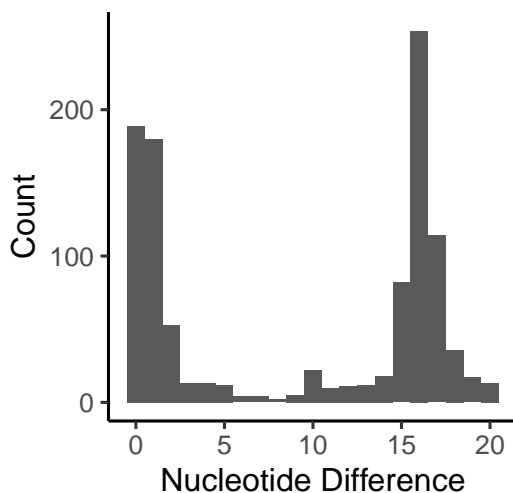
IGHV2-26*04

38 sequences assigned
19 (50%) exact matches, in which:
16 unique CDR3
4 unique J



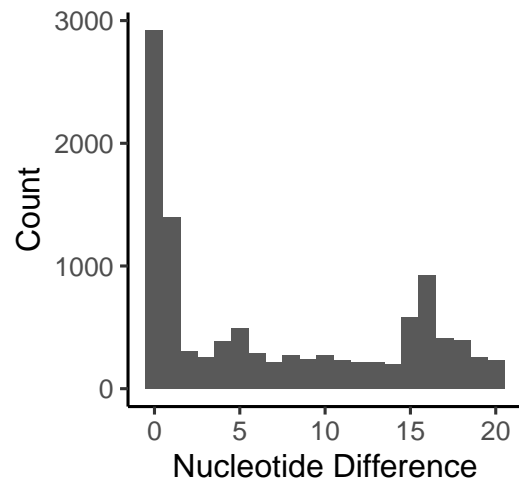
IGHV2-70*11_15

1104 sequences assigned
189 (17.1%) exact matches, in which:
156 unique CDR3
6 unique J



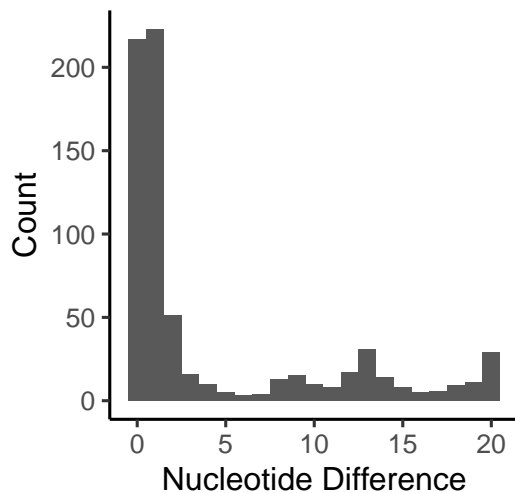
IGHV3-9*01

13259 sequences assigned
2920 (22%) exact matches, in which:
1795 unique CDR3
7 unique J



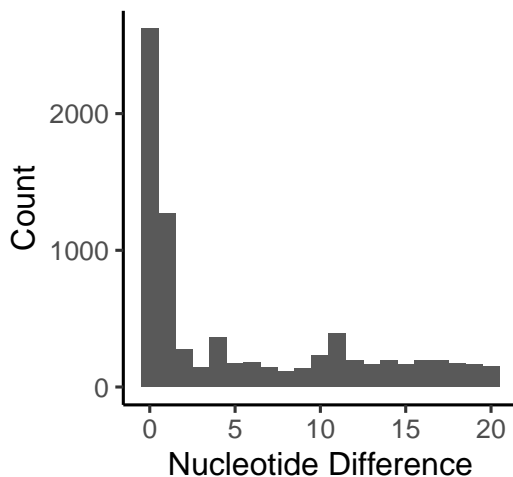
IGHV2-70*01

1517 sequences assigned
217 (14.3%) exact matches, in which:
182 unique CDR3
6 unique J



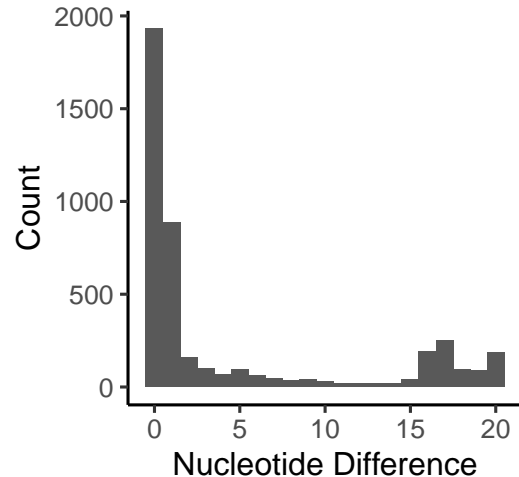
IGHV3-7*01

11486 sequences assigned
2621 (22.8%) exact matches, in which:
1797 unique CDR3
7 unique J



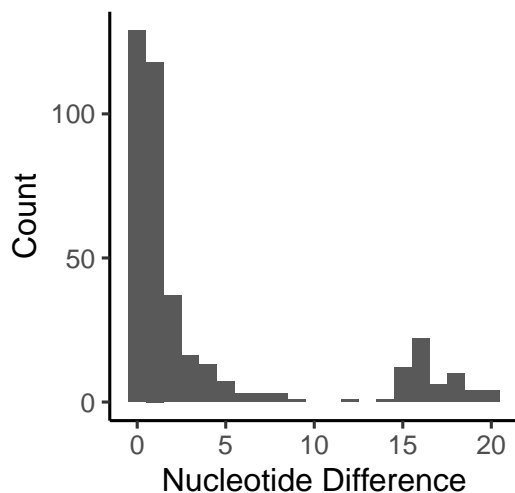
IGHV3-11*01

5810 sequences assigned
1931 (33.2%) exact matches, in which:
1294 unique CDR3
7 unique J



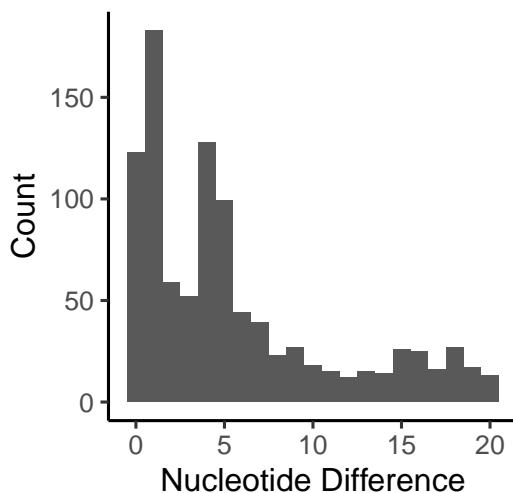
IGHV2-70*04

450 sequences assigned
129 (28.7%) exact matches, in which:
108 unique CDR3
6 unique J



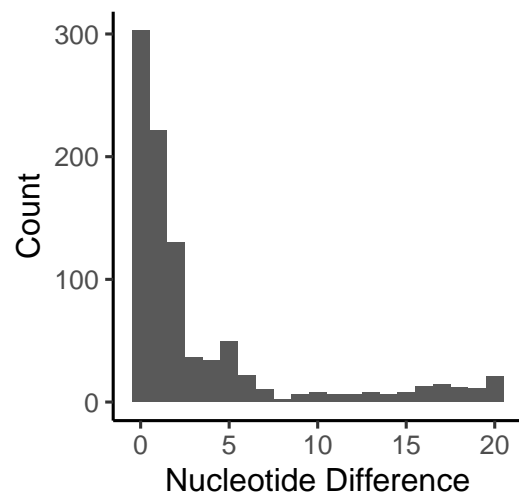
IGHV3-7*03

1282 sequences assigned
123 (9.6%) exact matches, in which:
116 unique CDR3
7 unique J



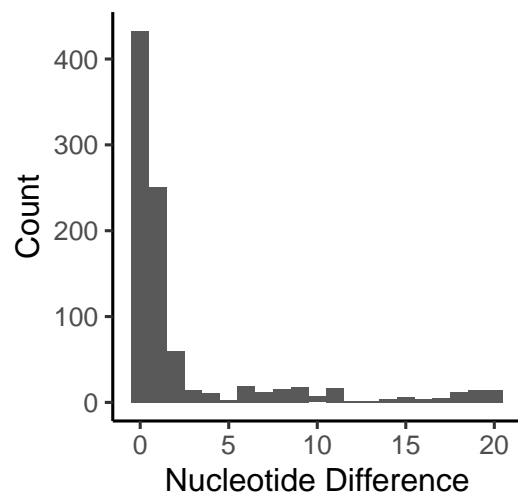
IGHV3-11*04

1054 sequences assigned
303 (28.7%) exact matches, in which:
297 unique CDR3
7 unique J



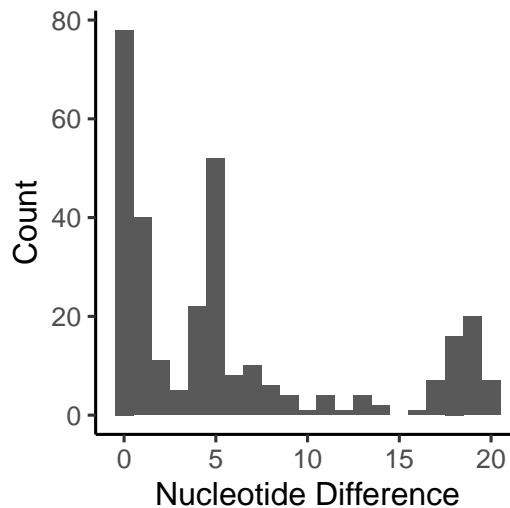
IGHV3-13*01

1061 sequences assigned
433 (40.8%) exact matches, in which:
256 unique CDR3
6 unique J



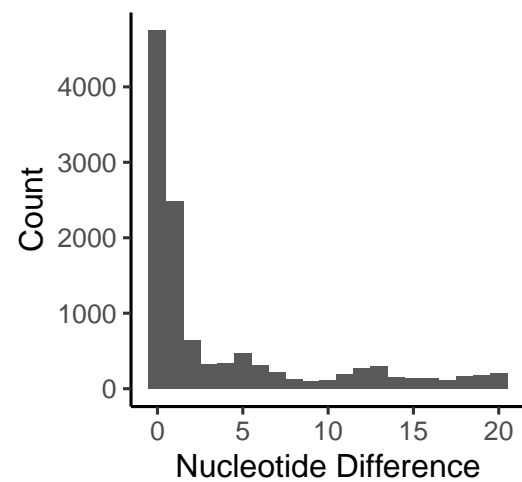
IGHV3-20*01_02

397 sequences assigned
78 (19.6%) exact matches, in which:
46 unique CDR3
6 unique J



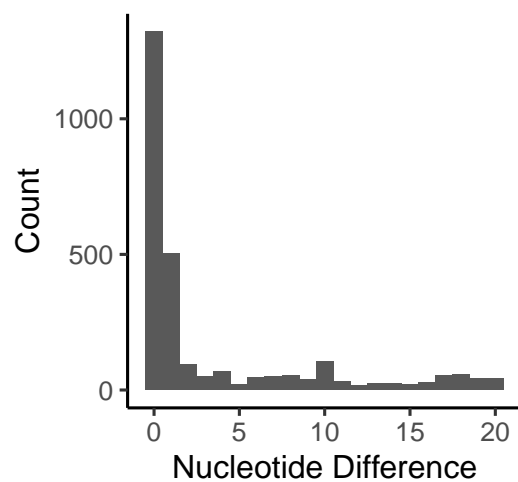
IGHV3-21*01_02

16214 sequences assigned
4748 (29.3%) exact matches, in which:
3077 unique CDR3
7 unique J



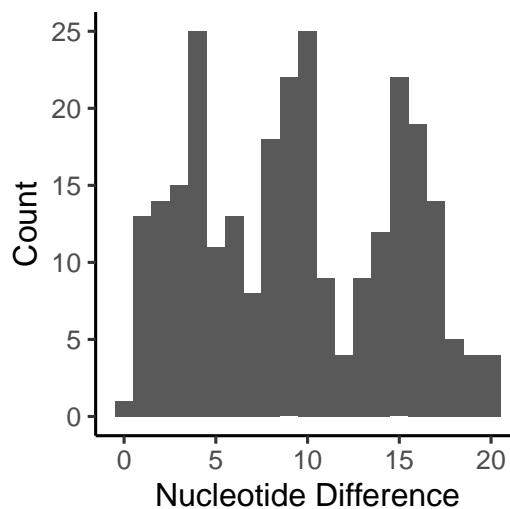
IGHV3-15*01_02

4307 sequences assigned
1321 (30.7%) exact matches, in which:
852 unique CDR3
7 unique J



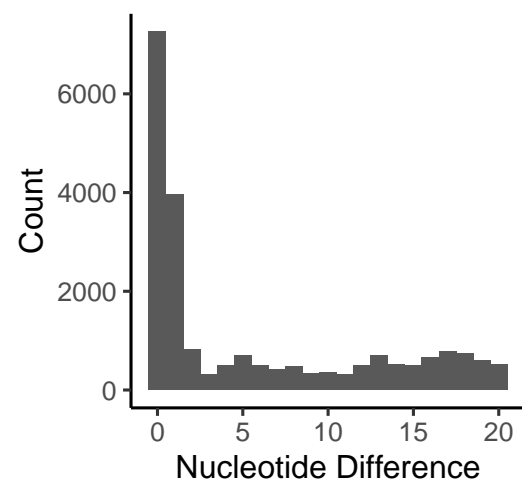
IGHV3-20*03_04

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



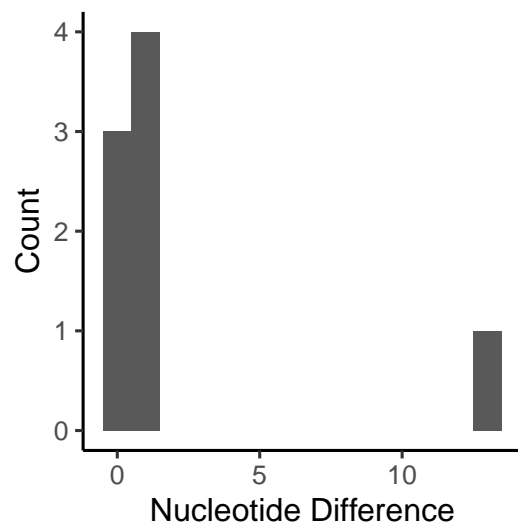
IGHV3-23*01_04

31122 sequences assigned
7258 (23.3%) exact matches, in which:
4262 unique CDR3
7 unique J



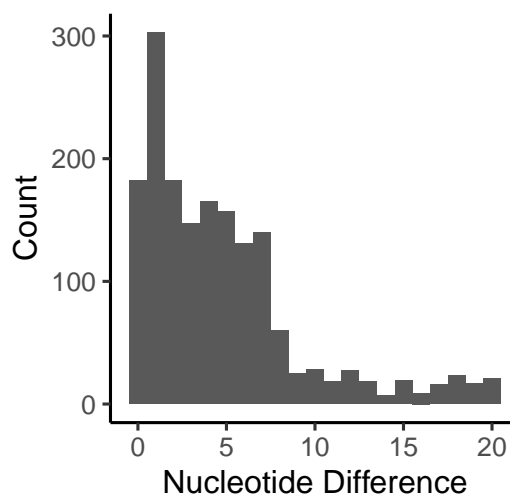
IGHV3-19*01

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



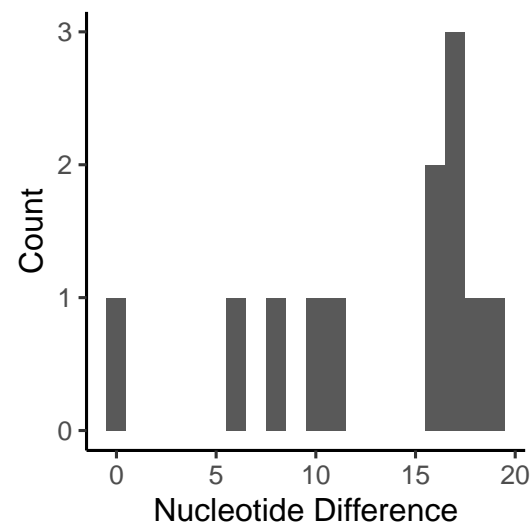
IGHV3-21*04

2073 sequences assigned
182 (8.8%) exact matches, in which:
177 unique CDR3
7 unique J



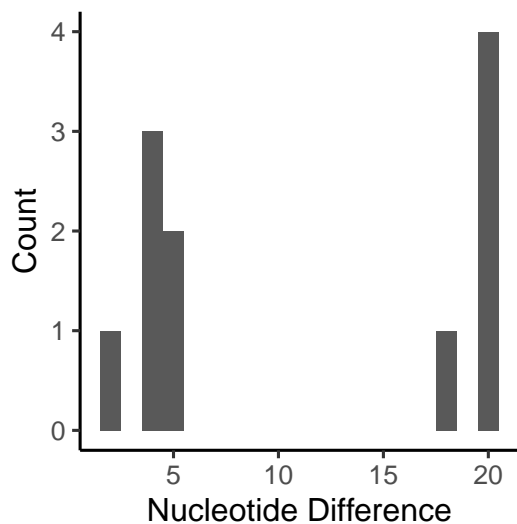
IGHV3-30-3*01

158 sequences assigned
1 (0.6%) exact matches, in which:
1 unique CDR3
1 unique J



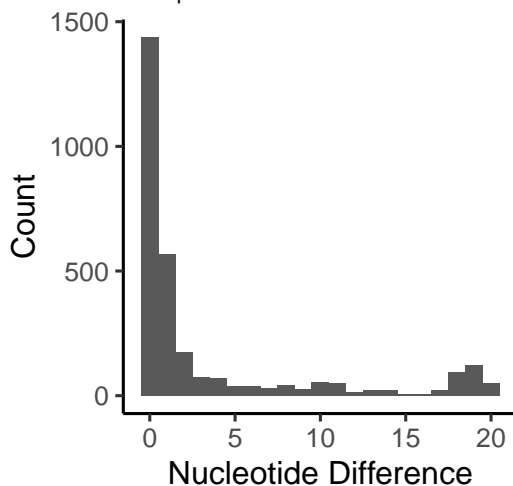
IGHV3-30-3*02

22 sequences assigned
No exact matches.



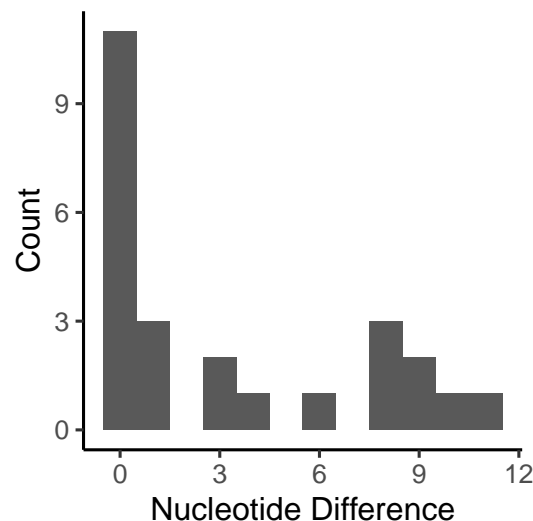
IGHV3-33*01

4343 sequences assigned
1437 (33.1%) exact matches, in which:
1051 unique CDR3
7 unique J



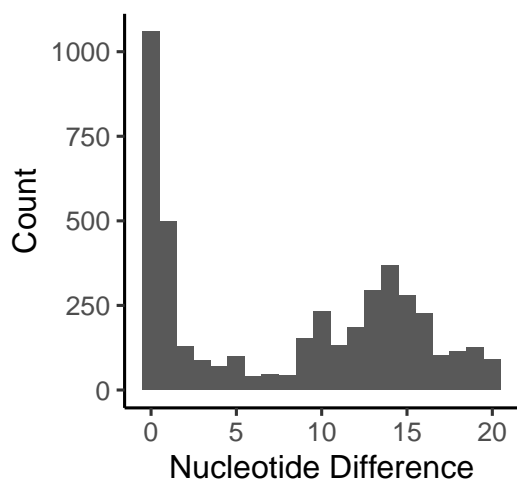
IGHV3-35*01

25 sequences assigned
11 (44%) exact matches, in which:
11 unique CDR3
4 unique J



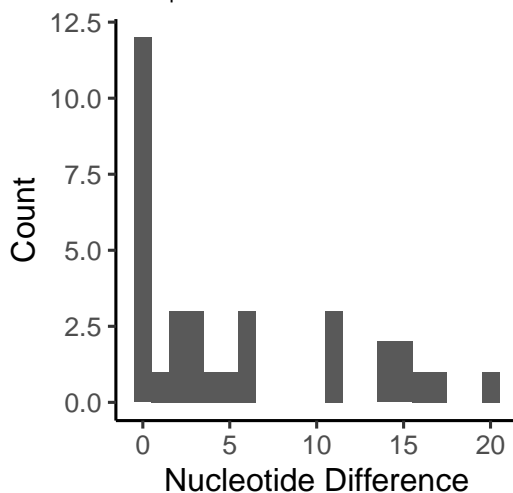
IGHV3-30*03

6004 sequences assigned
1059 (17.6%) exact matches, in which:
737 unique CDR3
7 unique J



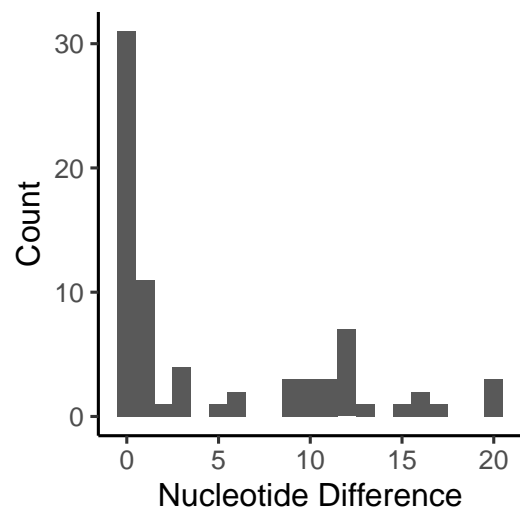
IGHV3-33*05

87 sequences assigned
12 (13.8%) exact matches, in which:
12 unique CDR3
3 unique J



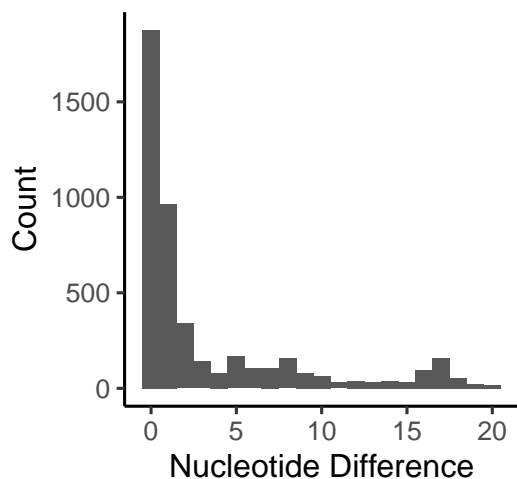
IGHV3-43*01

368 sequences assigned
31 (8.4%) exact matches, in which:
22 unique CDR3
4 unique J



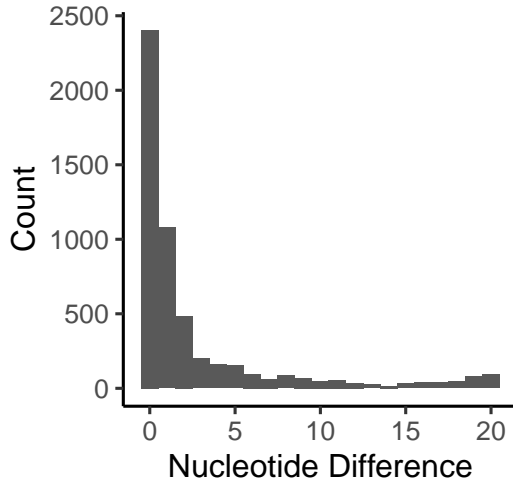
IGHV3-30*04

5029 sequences assigned
1876 (37.3%) exact matches, in which:
1248 unique CDR3
7 unique J



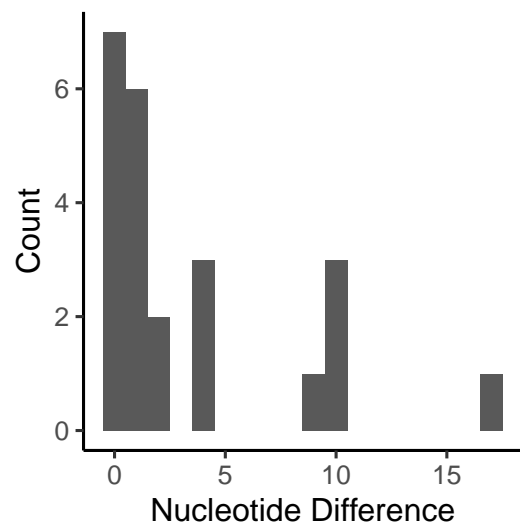
IGHV3-33*08

8368 sequences assigned
2404 (28.7%) exact matches, in which:
1704 unique CDR3
7 unique J



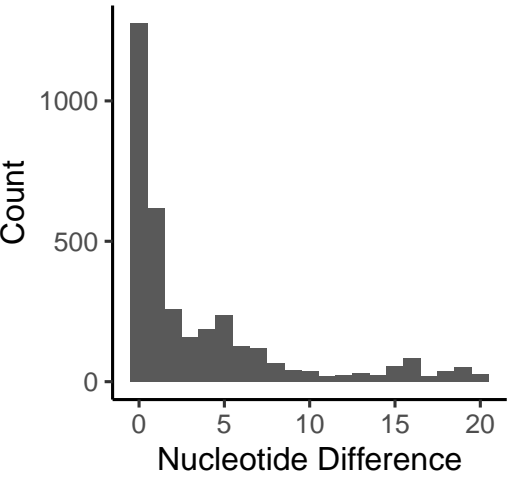
IGHV3-47*02

23 sequences assigned
7 (30.4%) exact matches, in which:
3 unique CDR3
2 unique J



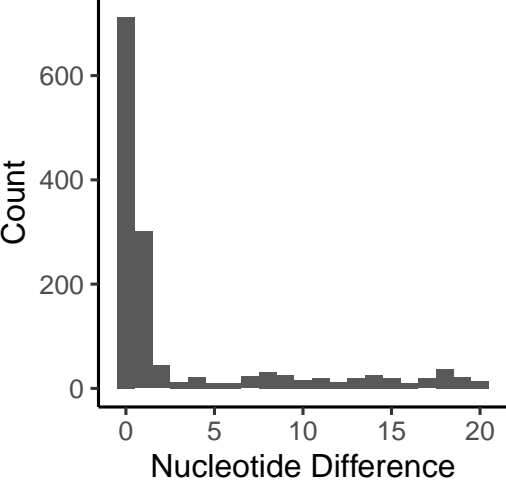
IGHV3-48*01

3693 sequences assigned
1276 (34.6%) exact matches, in which:
924 unique CDR3
7 unique J



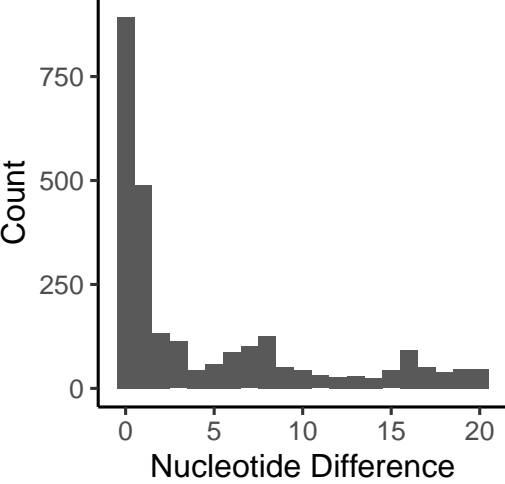
IGHV3-49*03_05

2571 sequences assigned
713 (27.7%) exact matches, in which:
450 unique CDR3
7 unique J



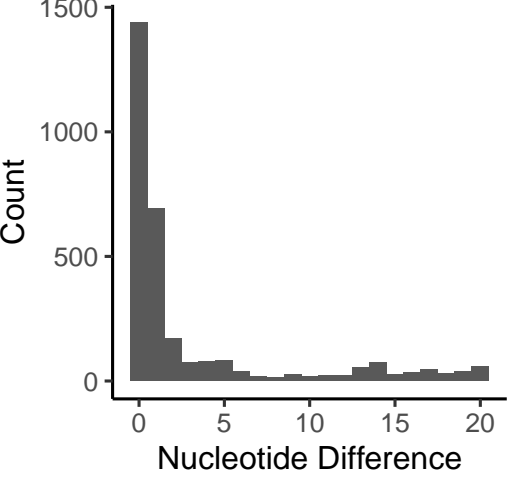
IGHV3-53*01_02

4212 sequences assigned
894 (21.2%) exact matches, in which:
585 unique CDR3
7 unique J



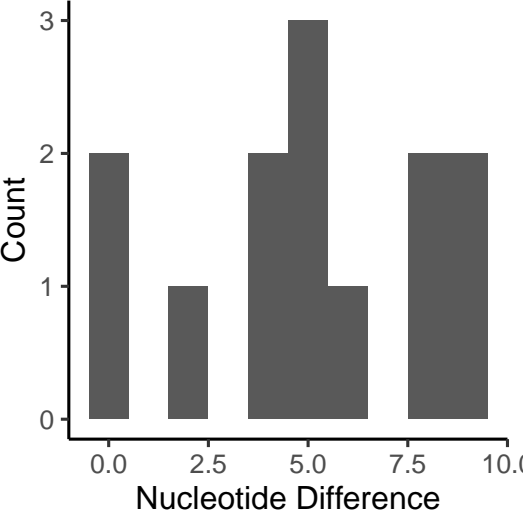
IGHV3-48*02

3950 sequences assigned
1438 (36.4%) exact matches, in which:
903 unique CDR3
7 unique J



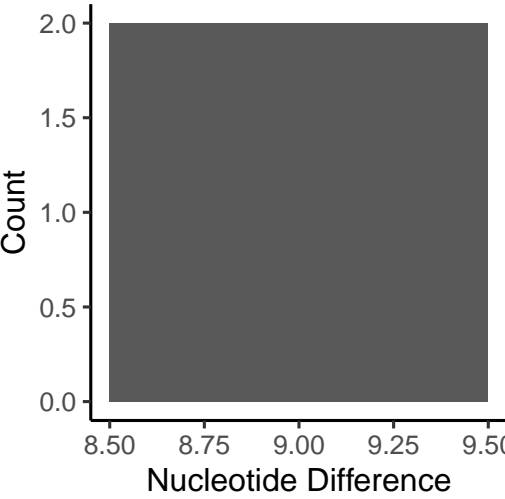
IGHV3-52*02

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



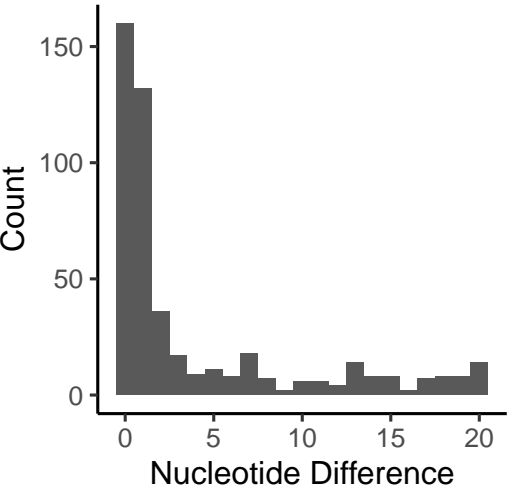
IGHV3-62*03

2 sequences assigned
No exact matches.



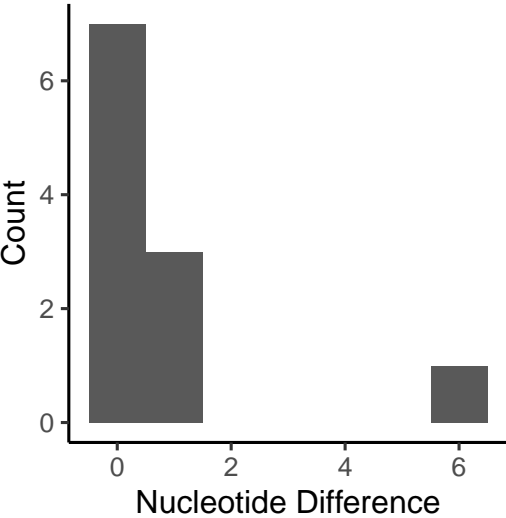
IGHV3-48*04

598 sequences assigned
160 (26.8%) exact matches, in which:
156 unique CDR3
7 unique J



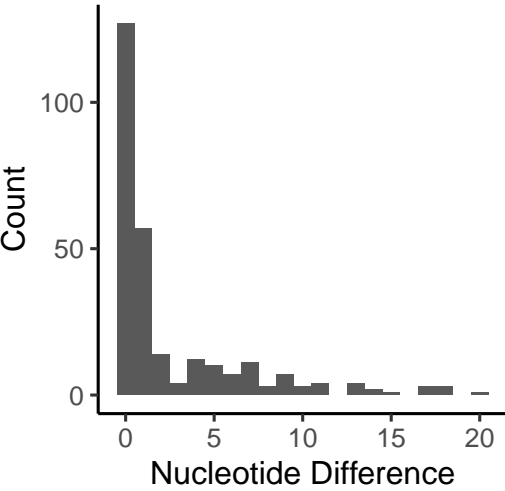
IGHV3-52*01_03

11 sequences assigned
7 (63.6%) exact matches, in which:
6 unique CDR3
3 unique J



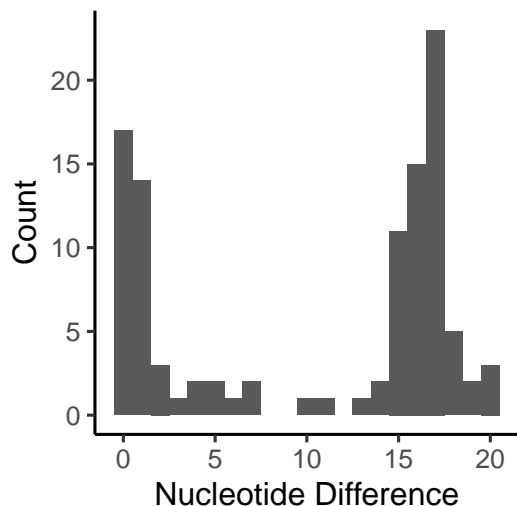
IGHV3-64*01

293 sequences assigned
127 (43.3%) exact matches, in which:
75 unique CDR3
5 unique J



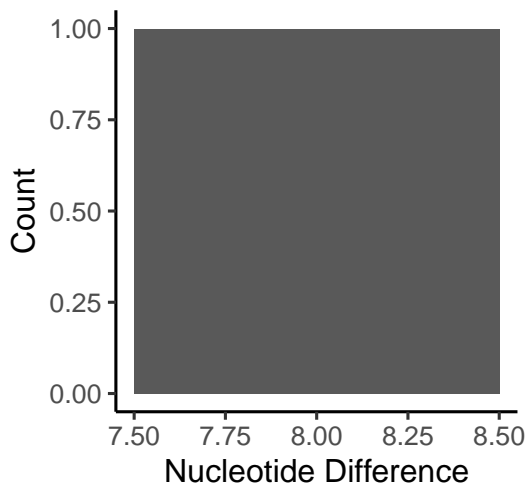
IGHV3-64*02_07

112 sequences assigned
17 (15.2%) exact matches, in which:
11 unique CDR3
4 unique J



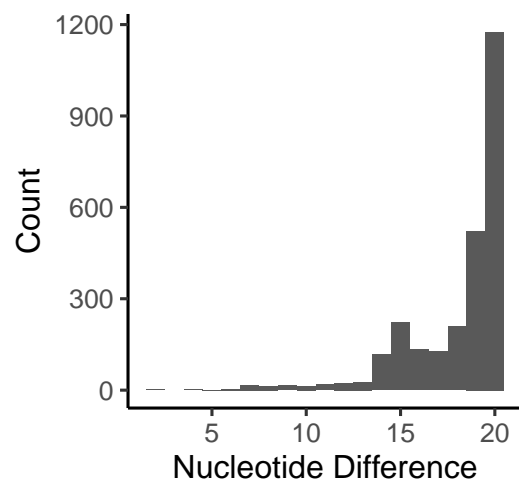
IGHV3-71*01_04

1 sequences assigned
No exact matches.



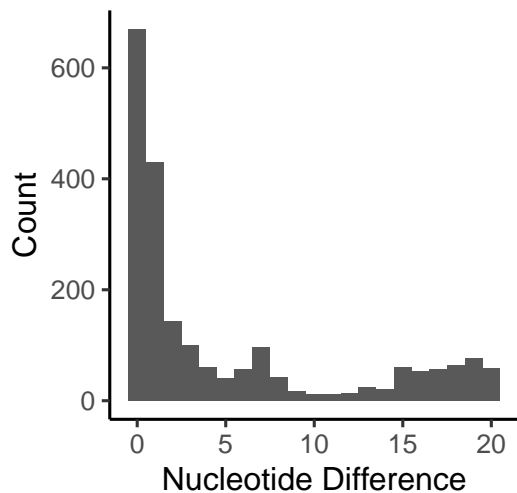
IGHV3-74*03

7864 sequences assigned
No exact matches.



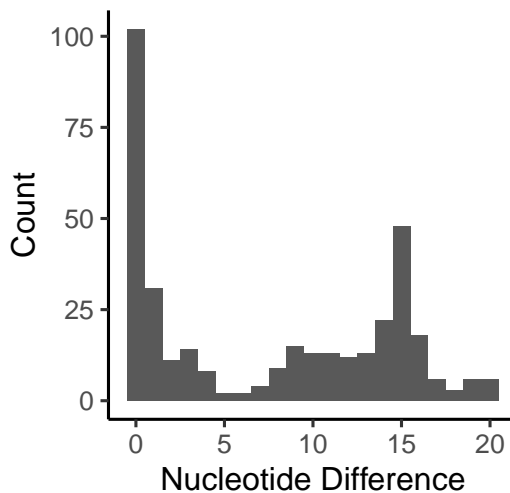
IGHV3-66*01

3270 sequences assigned
670 (20.5%) exact matches, in which:
453 unique CDR3
7 unique J



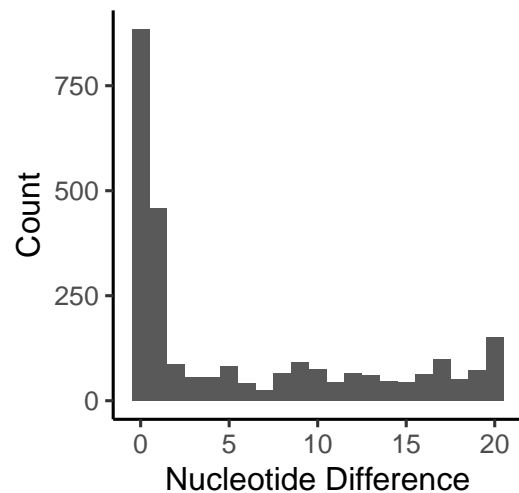
IGHV3-72*01

725 sequences assigned
102 (14.1%) exact matches, in which:
65 unique CDR3
6 unique J



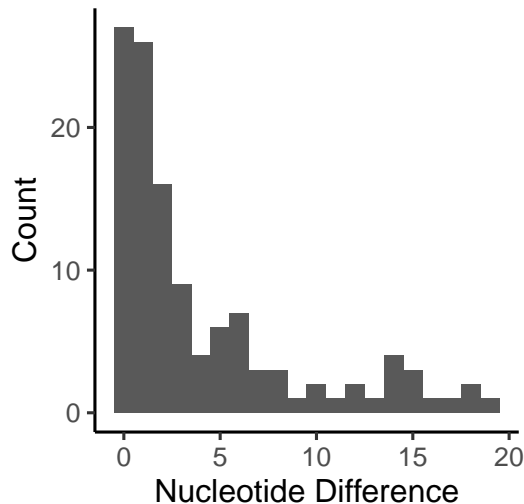
IGHV3-74*01_02

3991 sequences assigned
885 (22.2%) exact matches, in which:
513 unique CDR3
7 unique J



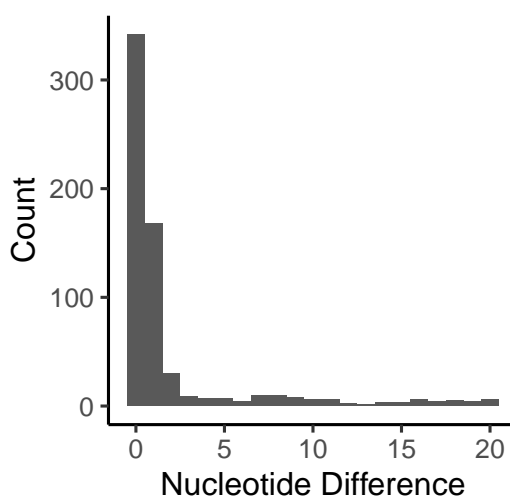
IGHV3-69-1*01

181 sequences assigned
27 (14.9%) exact matches, in which:
24 unique CDR3
5 unique J



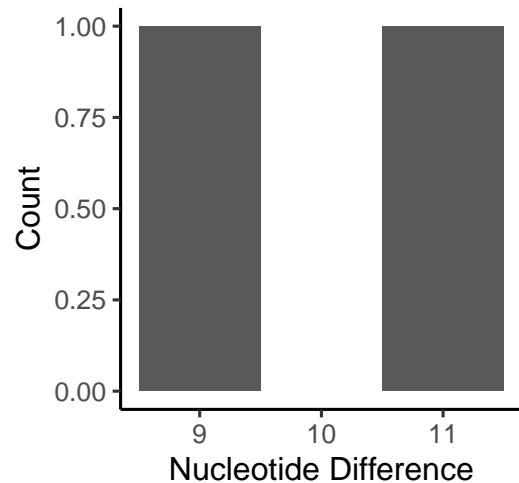
IGHV3-73*01_02

759 sequences assigned
342 (45.1%) exact matches, in which:
209 unique CDR3
6 unique J



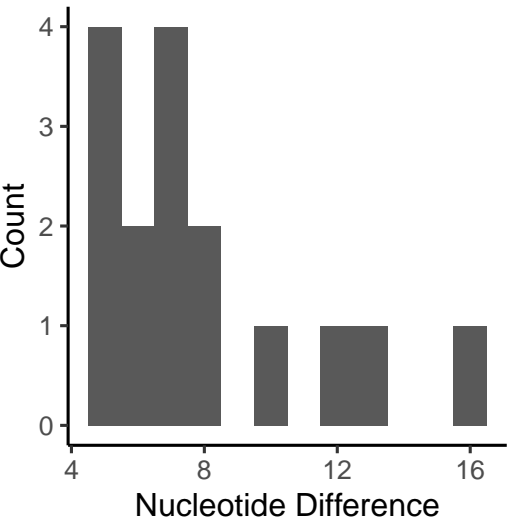
IGHV3-64D*06

4 sequences assigned
No exact matches.



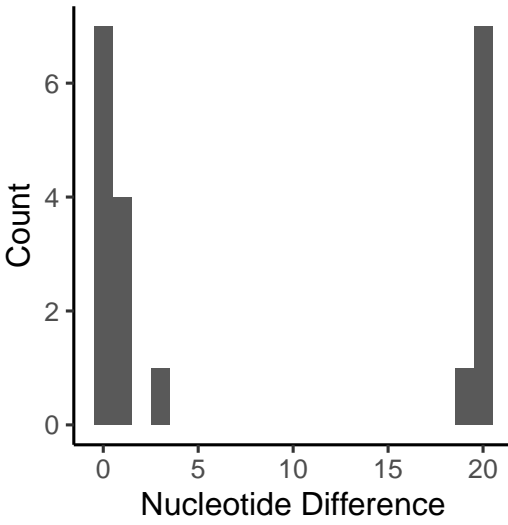
IGHV3–NL1*01

54 sequences assigned
No exact matches.



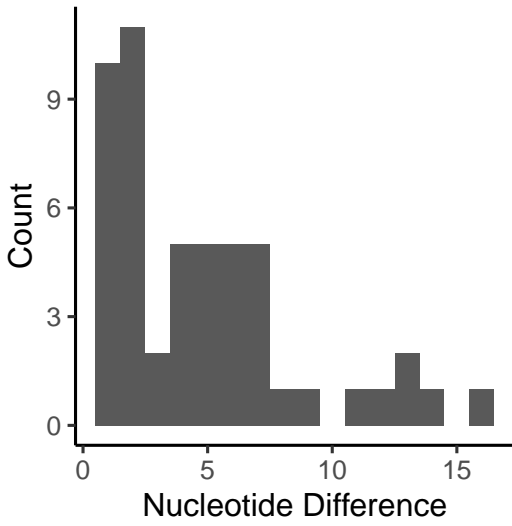
IGHV4–28*01_07

65 sequences assigned
7 (10.8%) exact matches, in which:
6 unique CDR3
4 unique J



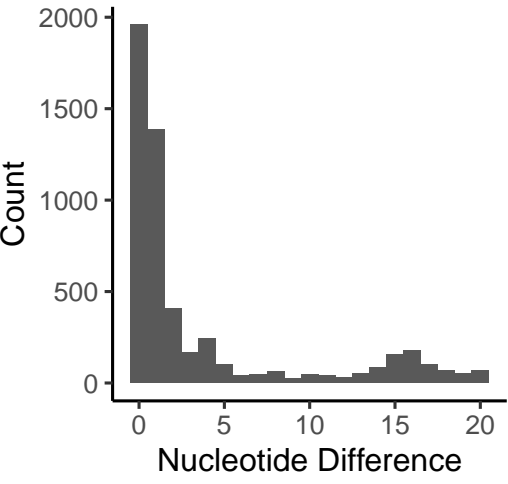
IGHV4–30–2*03

84 sequences assigned
No exact matches.



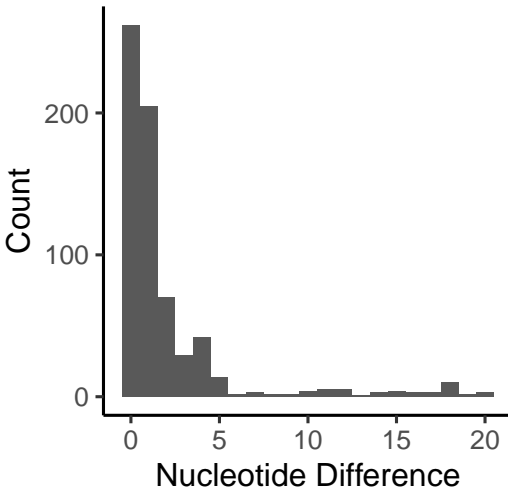
IGHV4–4*07

7821 sequences assigned
1959 (25%) exact matches, in which:
1739 unique CDR3
7 unique J



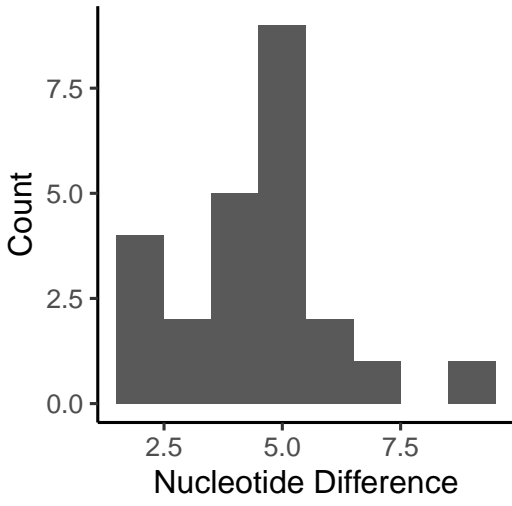
IGHV4–30–2*01

722 sequences assigned
262 (36.3%) exact matches, in which:
192 unique CDR3
7 unique J



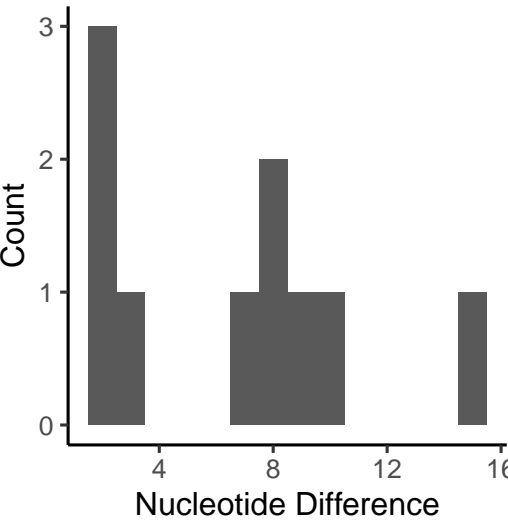
IGHV4–30–4*07

24 sequences assigned
No exact matches.



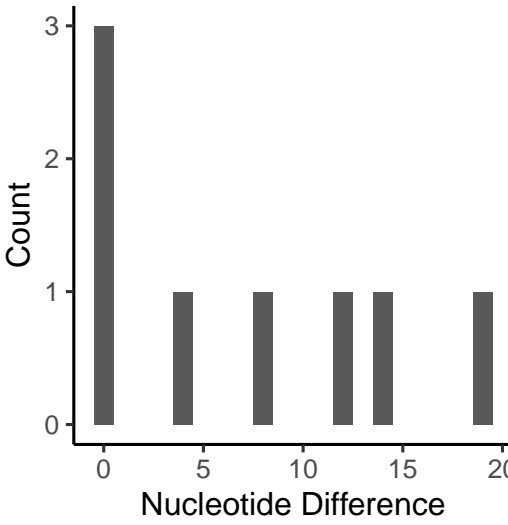
IGHV4–28*03

13 sequences assigned
No exact matches.



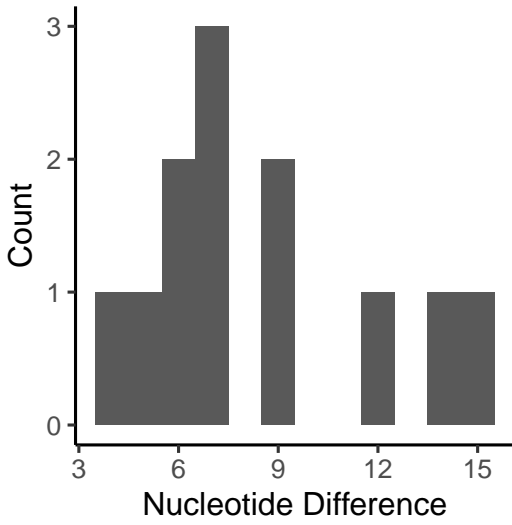
IGHV4–30–4*01

38 sequences assigned
3 (7.9%) exact matches, in which:
3 unique CDR3
2 unique J



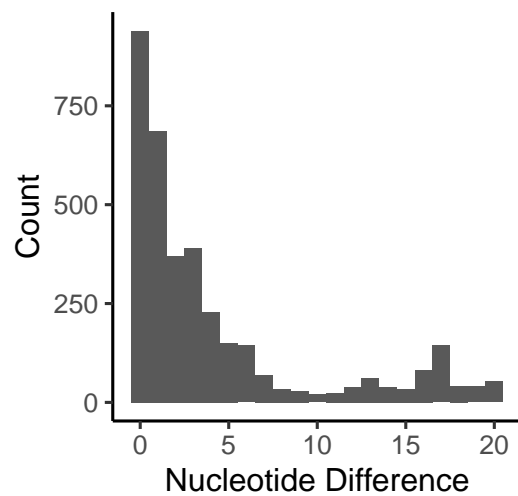
IGHV4–30–4*08

19 sequences assigned
No exact matches.



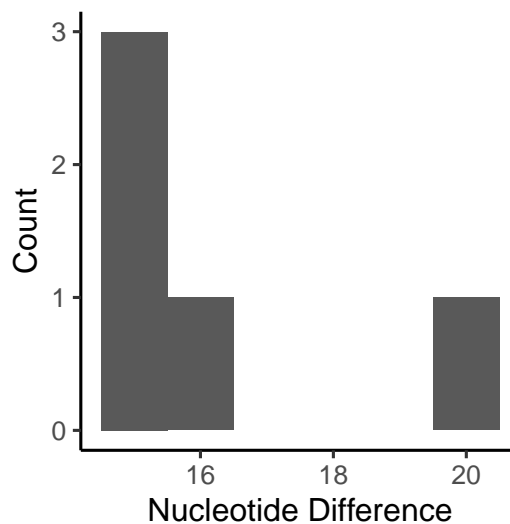
IGHV4-31*02

4619 sequences assigned
940 (20.4%) exact matches, in which:
832 unique CDR3
7 unique J



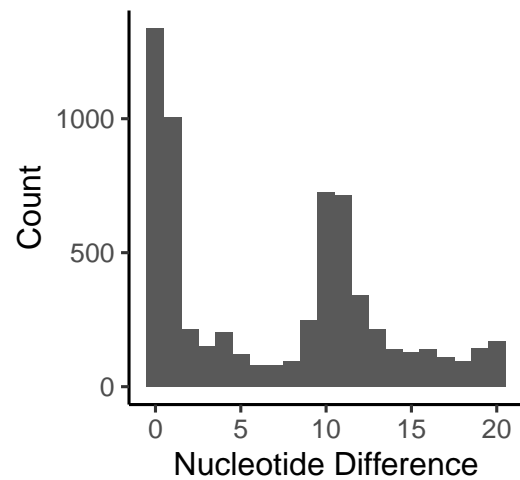
IGHV4-38-2*02

11 sequences assigned
No exact matches.



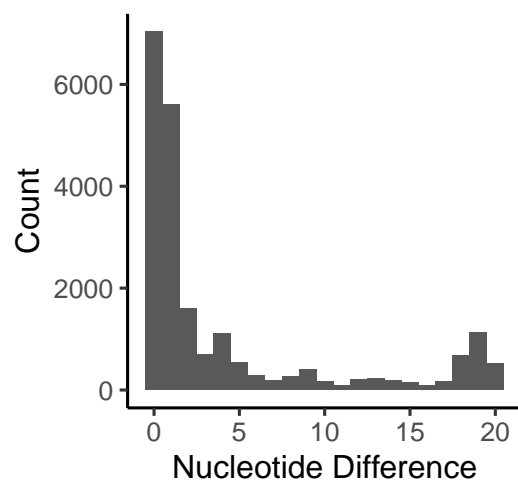
IGHV4-59*08

8268 sequences assigned
1337 (16.2%) exact matches, in which:
1163 unique CDR3
7 unique J



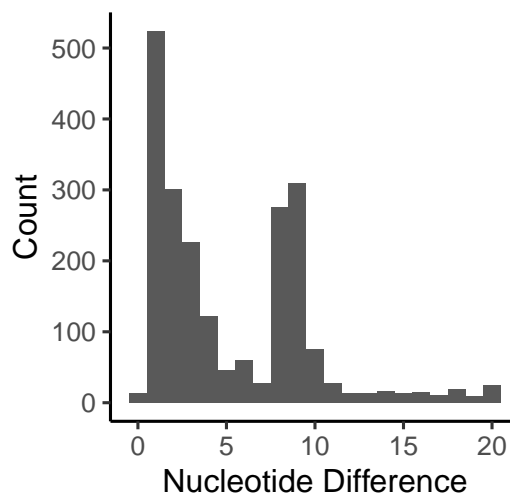
IGHV4-34*01_02

24465 sequences assigned
7034 (28.8%) exact matches, in which:
5867 unique CDR3
7 unique J



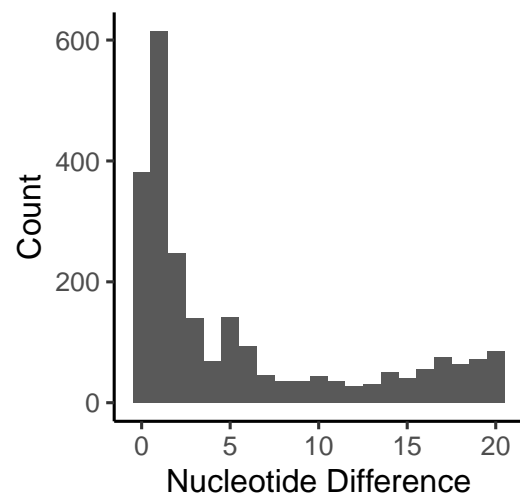
IGHV4-39*07

3446 sequences assigned
13 (0.4%) exact matches, in which:
13 unique CDR3
5 unique J



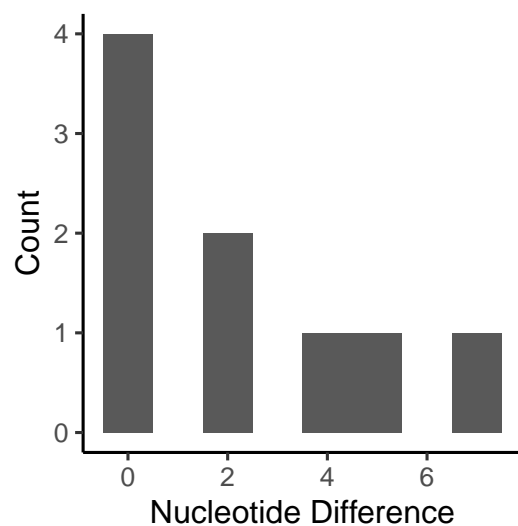
IGHV4-59*12

3408 sequences assigned
382 (11.2%) exact matches, in which:
371 unique CDR3
7 unique J



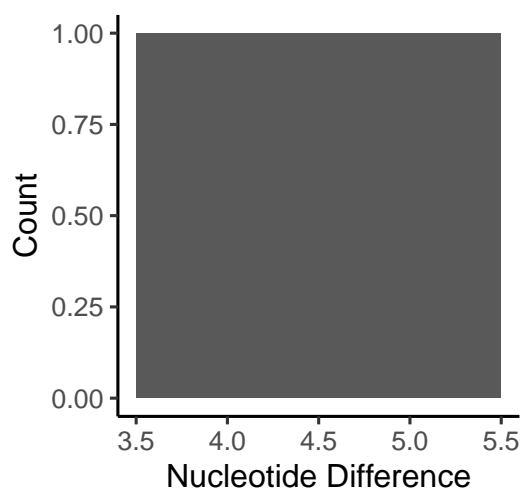
IGHV4-38-2*01

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



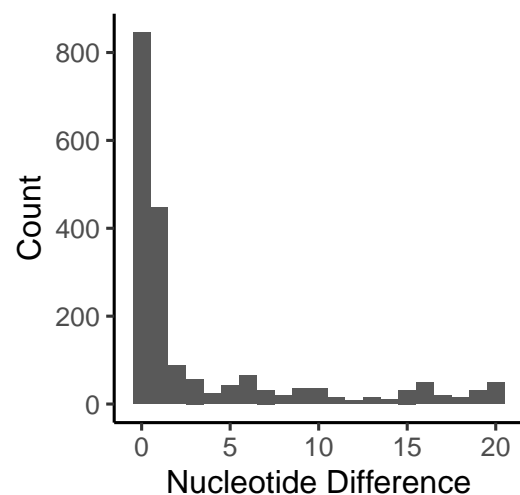
IGHV4-55*09

2 sequences assigned
No exact matches.



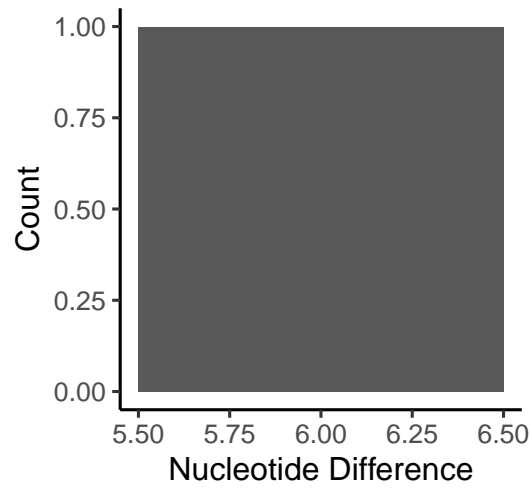
IGHV4-61*01

2471 sequences assigned
846 (34.2%) exact matches, in which:
799 unique CDR3
7 unique J



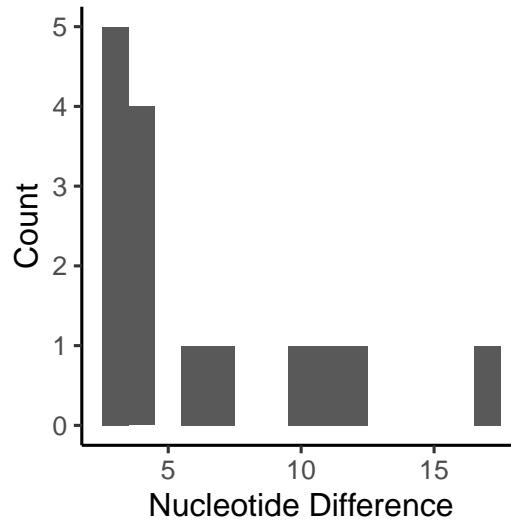
IGHV1/OR15-1*04

7 sequences assigned
No exact matches.



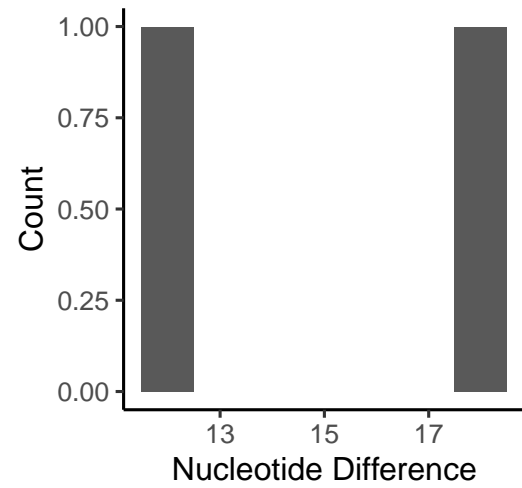
IGHV4/OR15-8*01

17 sequences assigned
No exact matches.



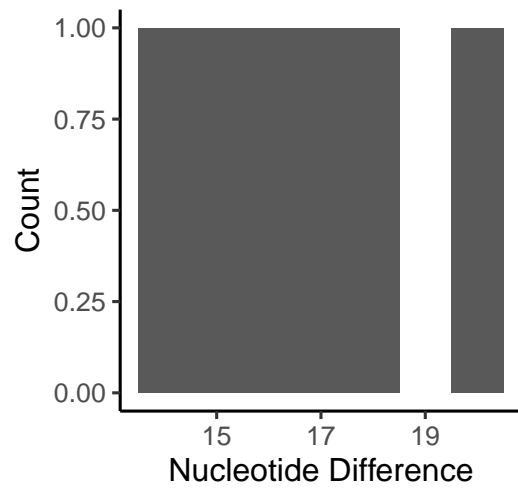
IGHV5-10-1*01_03

2 sequences assigned
No exact matches.



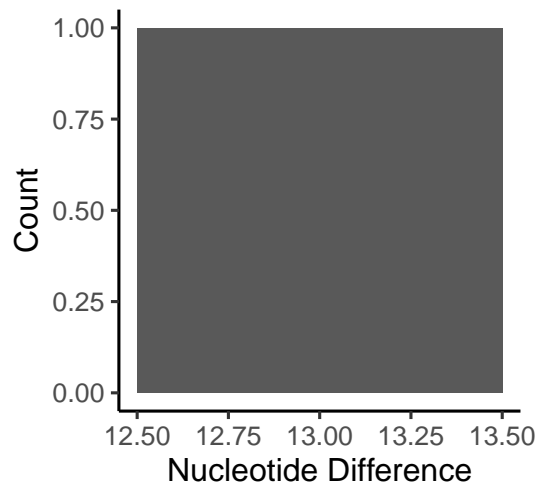
IGHV1/OR15-2*02_03

6 sequences assigned
No exact matches.



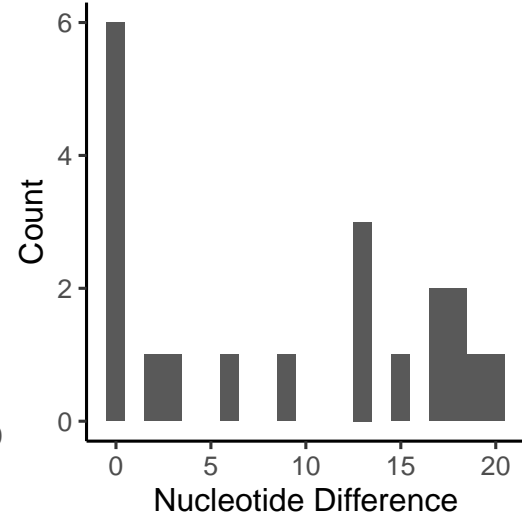
IGHV4/OR15-8*02

3 sequences assigned
No exact matches.



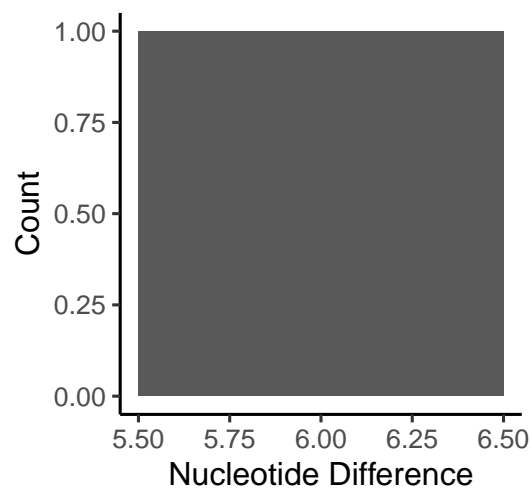
IGHV5-51*04

40 sequences assigned
6 (15%) exact matches, in which:
6 unique CDR3
4 unique J



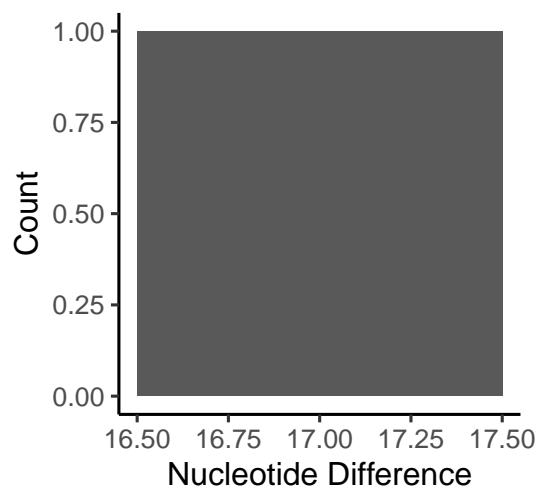
IGHV1/OR15-3*02

1 sequences assigned
No exact matches.



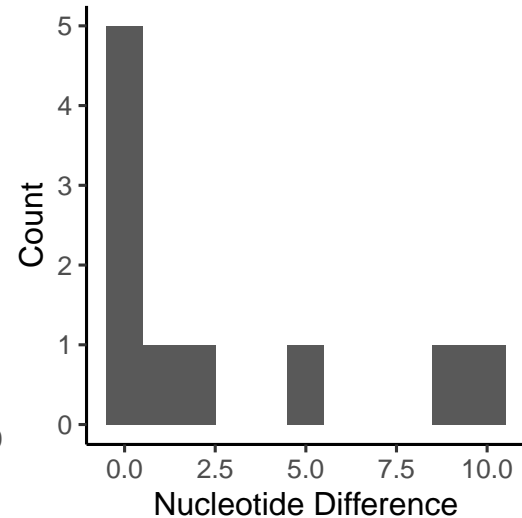
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



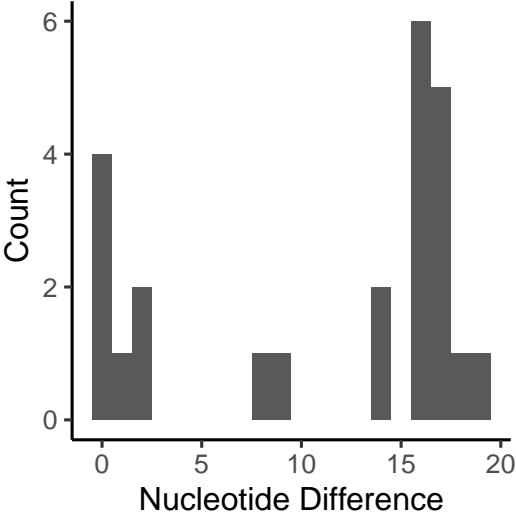
IGHV5-51*06

14 sequences assigned
5 (35.7%) exact matches, in which:
5 unique CDR3
2 unique J



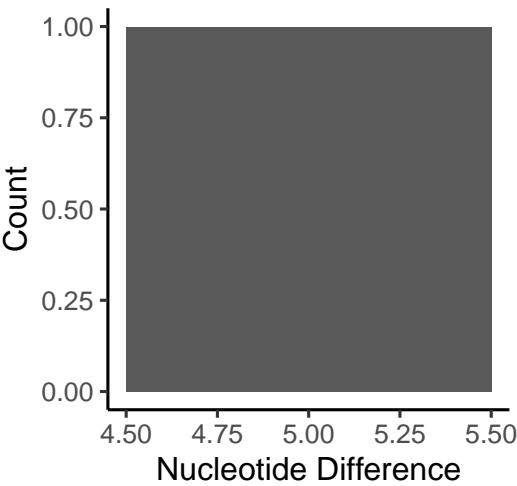
IGHV5-51*07

35 sequences assigned
4 (11.4%) exact matches, in which:
4 unique CDR3
3 unique J



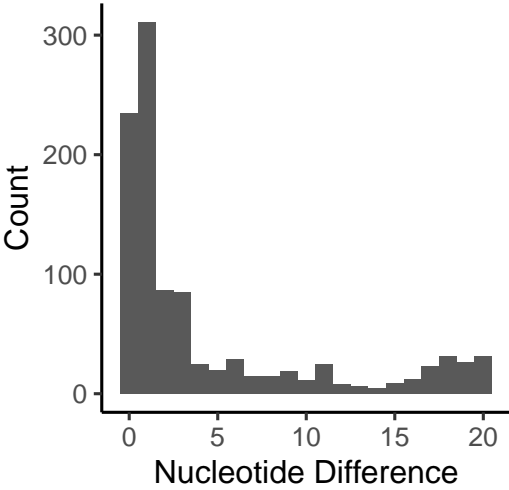
IGHV3/OR16-13*01

1 sequences assigned
No exact matches.



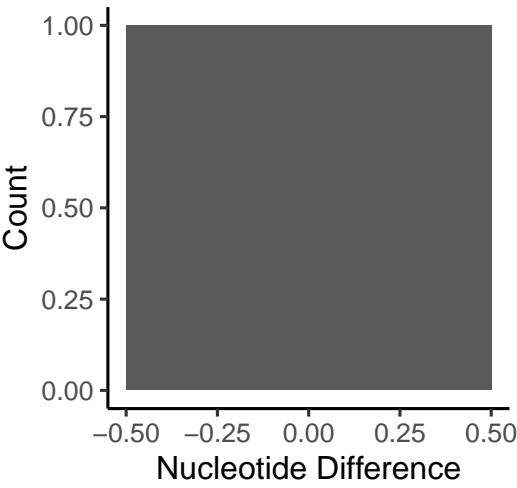
IGHV6-1*01_02

1125 sequences assigned
235 (20.9%) exact matches, in which:
206 unique CDR3
7 unique J



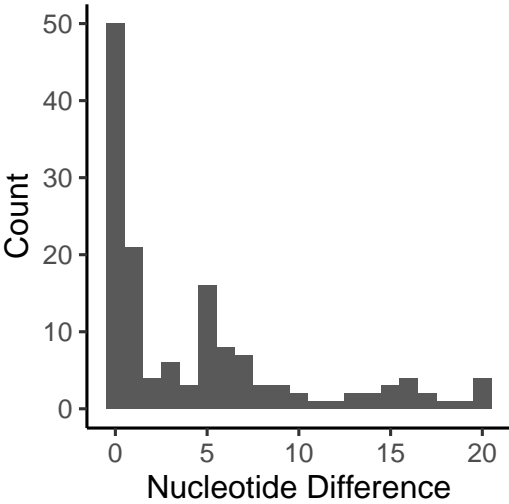
IGHV7-4-1*01

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



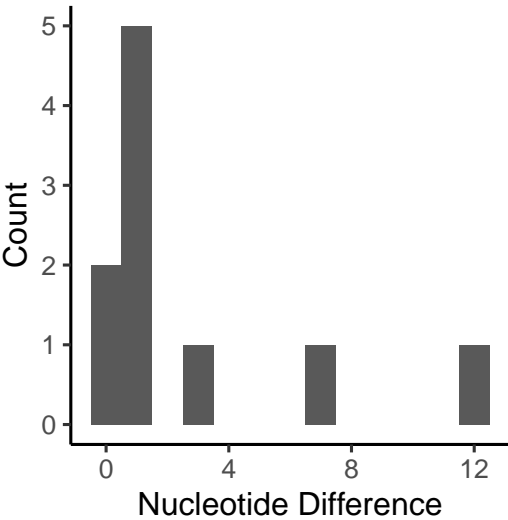
IGHV6-1*01_02_A315G

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

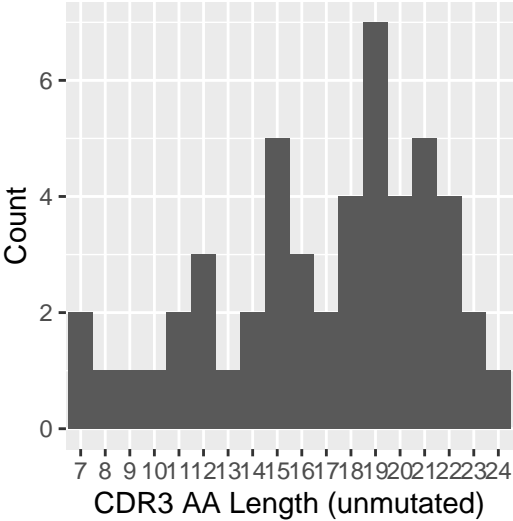


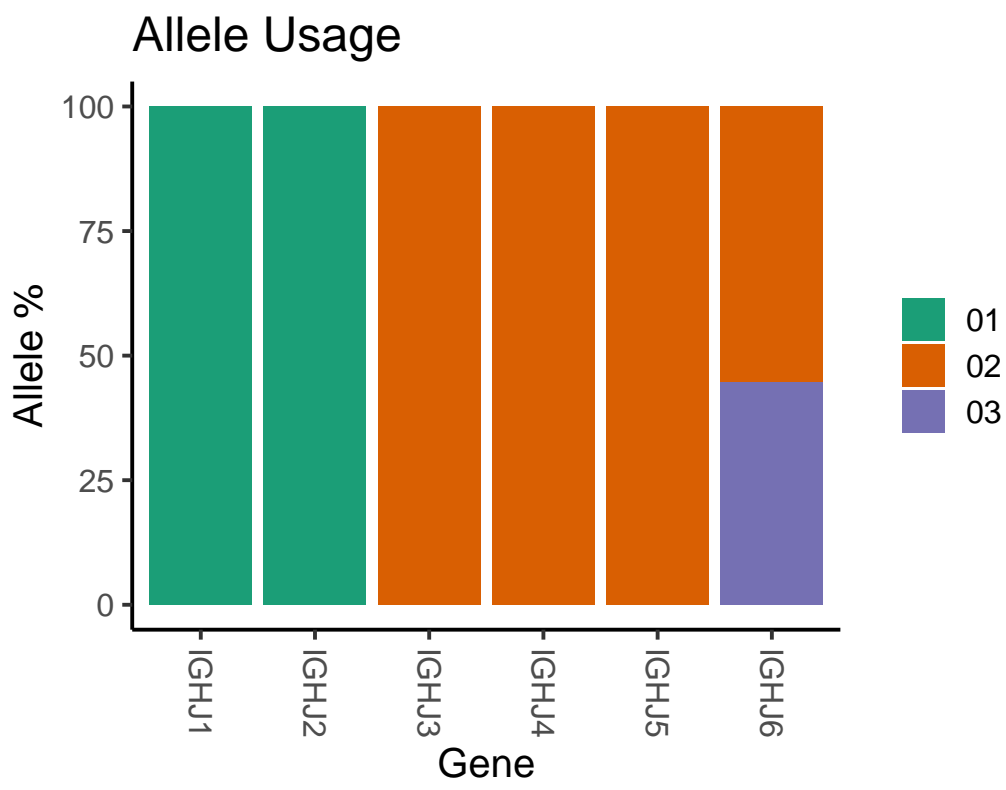
IGHV7-4-1*02

10 sequences assigned
2 (20%) exact matches, in which:
2 unique CDR3
2 unique J



IGHV6-1*01_02_A315G





Sequence Count by IGHJ6 allele usage

