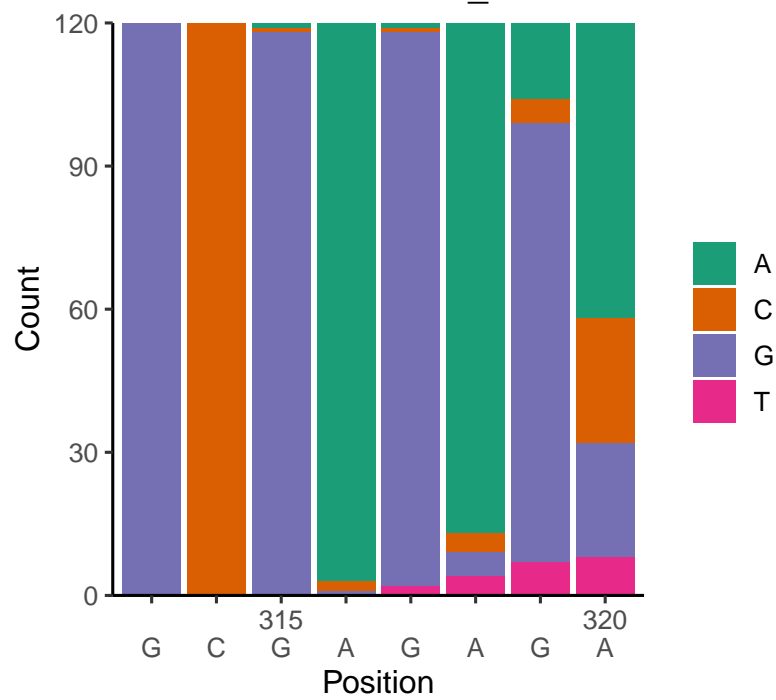
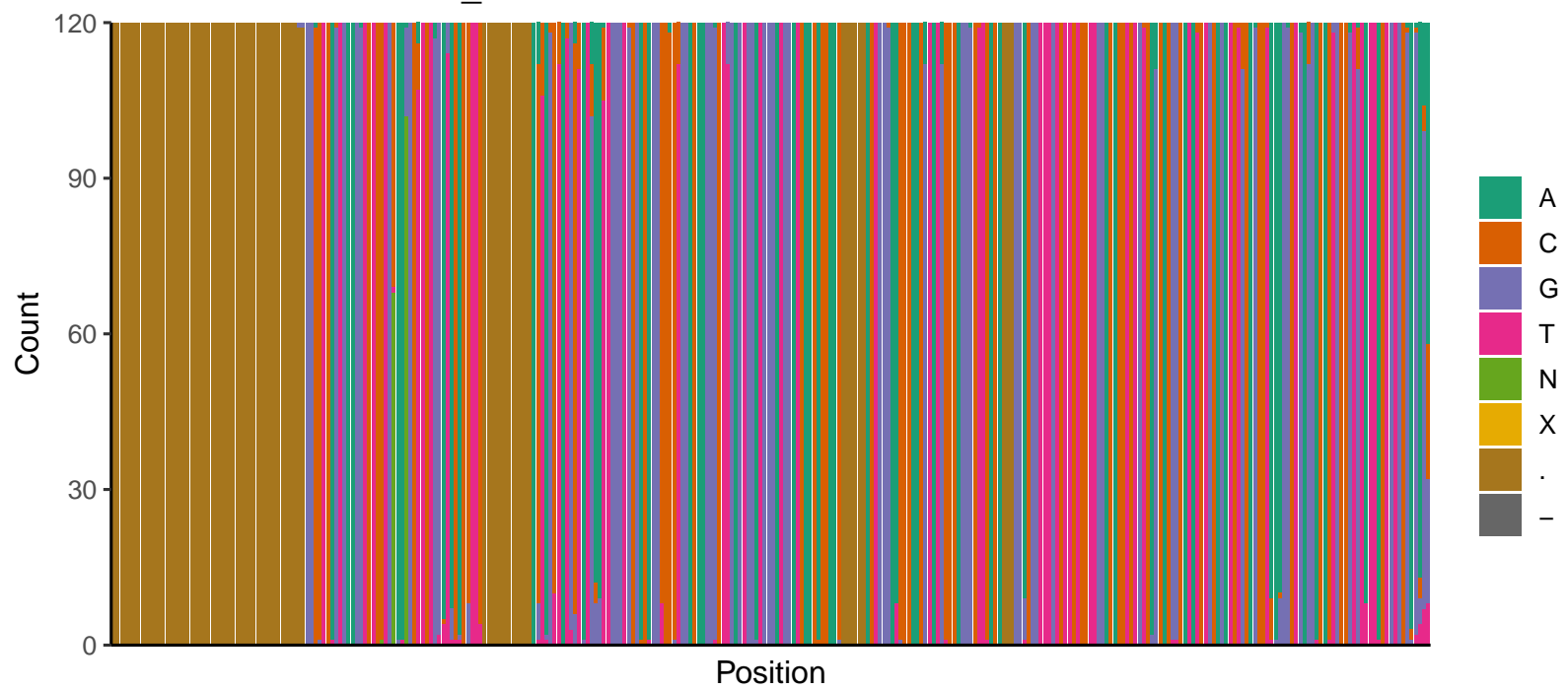


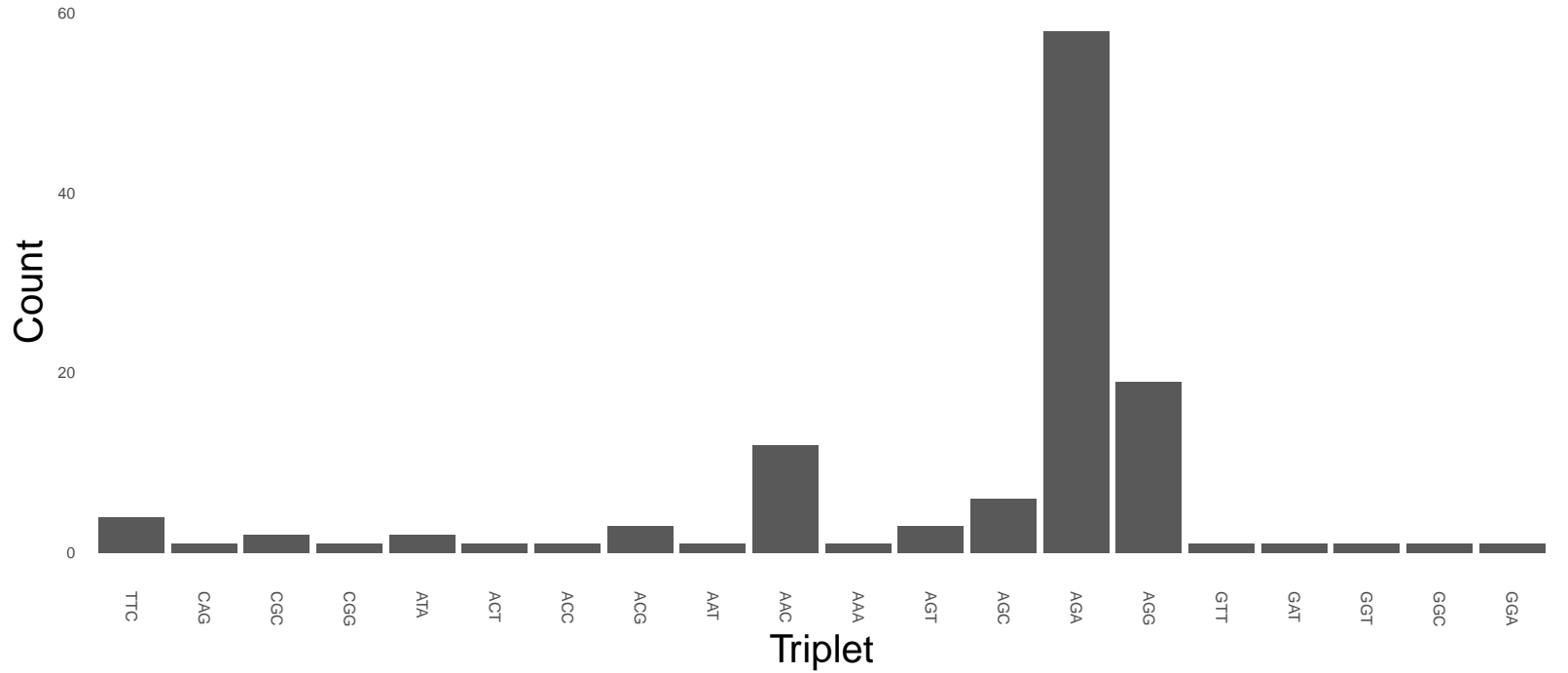
Gene IGHV7-4-1*01_T63C



Gene IGHV7-4-1*01_T63C

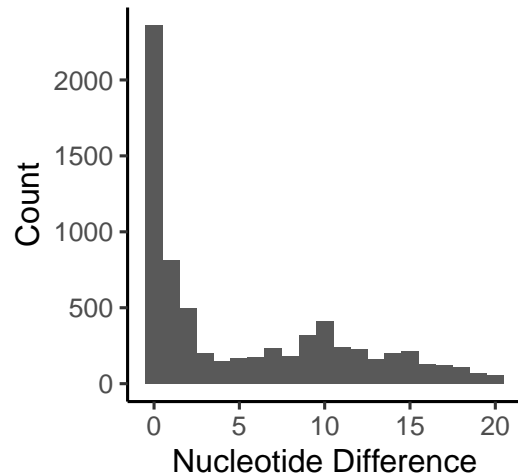


IGHV7-4-1*01_T63C- Final 3 nucleotides as a triplet



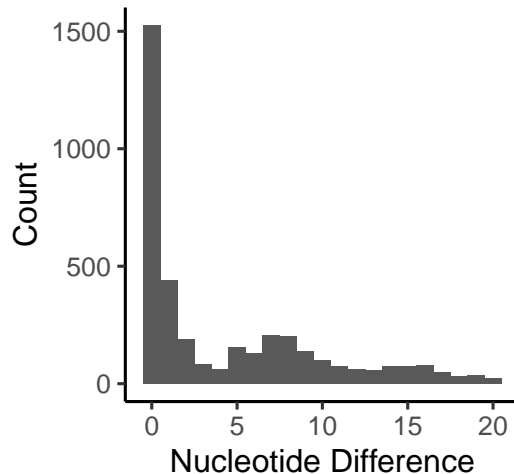
IGHV1-2*02

8618 sequences assigned
2359 (27.4%) exact matches, in which:
2320 unique CDR3
7 unique J



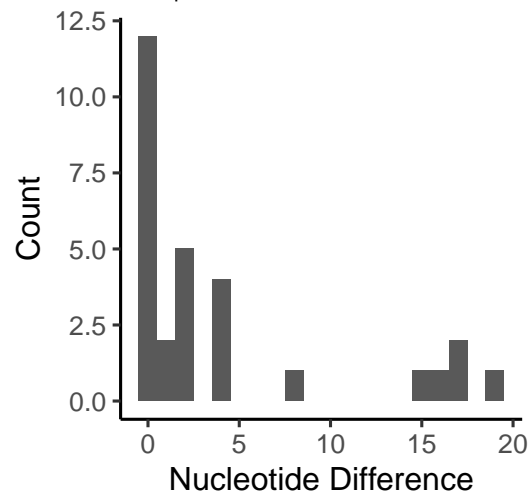
IGHV1-8*01

4014 sequences assigned
1525 (38%) exact matches, in which:
1509 unique CDR3
7 unique J



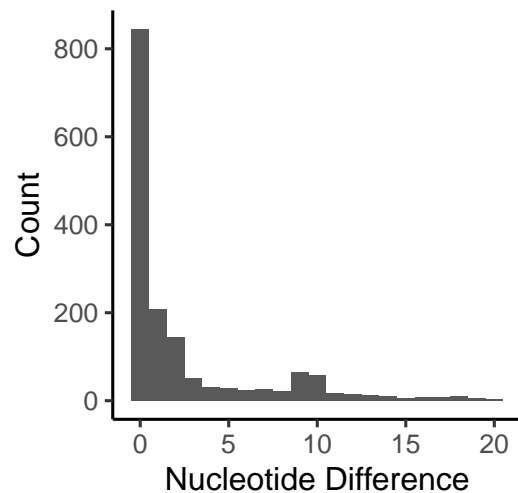
IGHV1-45*02

31 sequences assigned
12 (38.7%) exact matches, in which:
12 unique CDR3
5 unique J



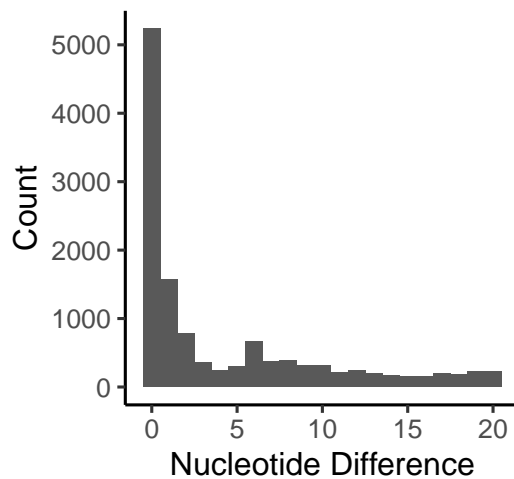
IGHV1-2*04

1621 sequences assigned
845 (52.1%) exact matches, in which:
835 unique CDR3
7 unique J



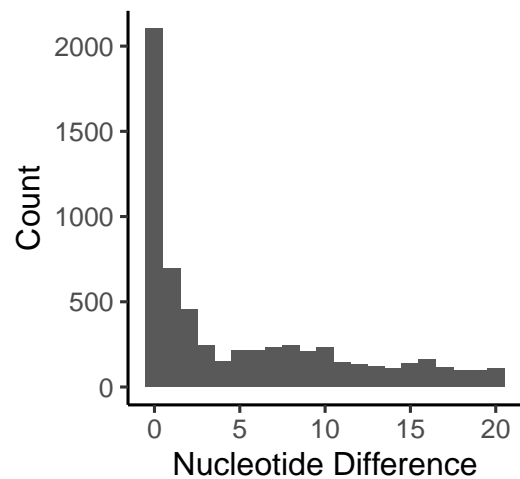
IGHV1-18*01

13976 sequences assigned
5235 (37.5%) exact matches, in which:
5147 unique CDR3
7 unique J



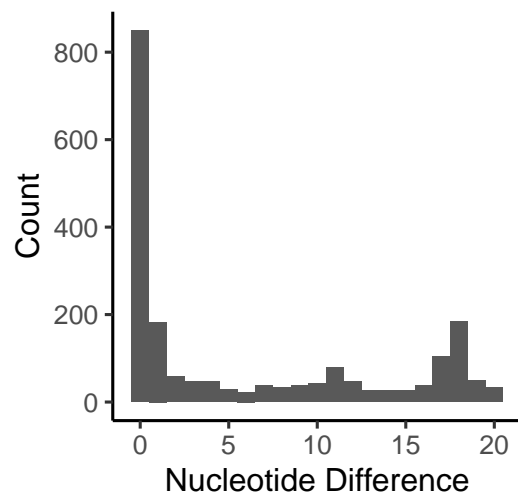
IGHV1-46*01

7057 sequences assigned
2102 (29.8%) exact matches, in which:
2075 unique CDR3
7 unique J



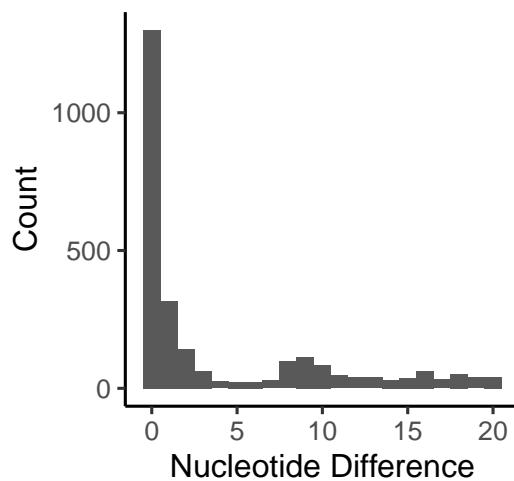
IGHV1-3*01_05

2927 sequences assigned
850 (29%) exact matches, in which:
848 unique CDR3
7 unique J



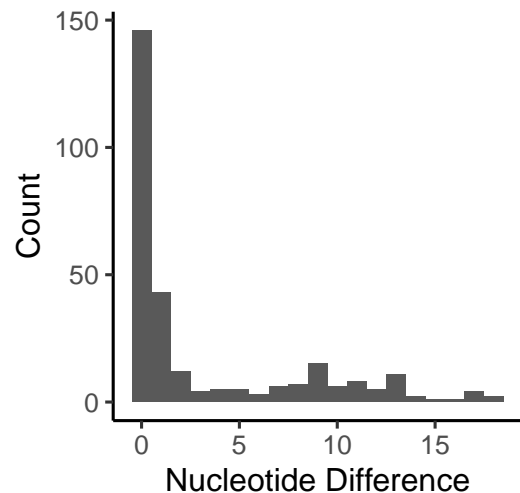
IGHV1-24*01

2805 sequences assigned
1300 (46.3%) exact matches, in which:
1288 unique CDR3
7 unique J



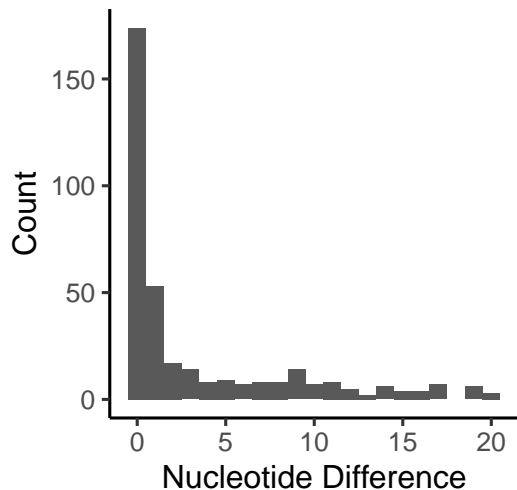
IGHV1-58*02

327 sequences assigned
146 (44.6%) exact matches, in which:
146 unique CDR3
7 unique J



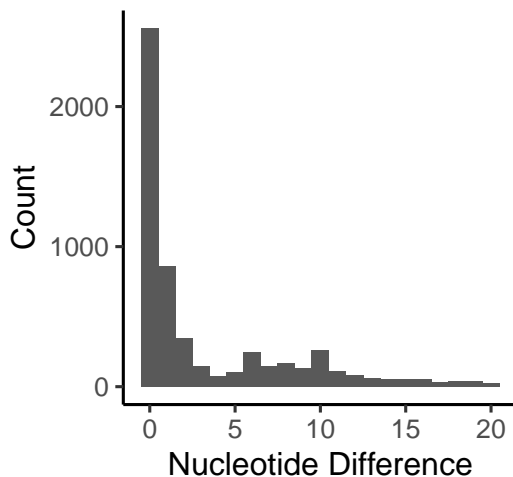
IGHV1–58*01_03

375 sequences assigned
174 (46.4%) exact matches, in which:
174 unique CDR3
6 unique J



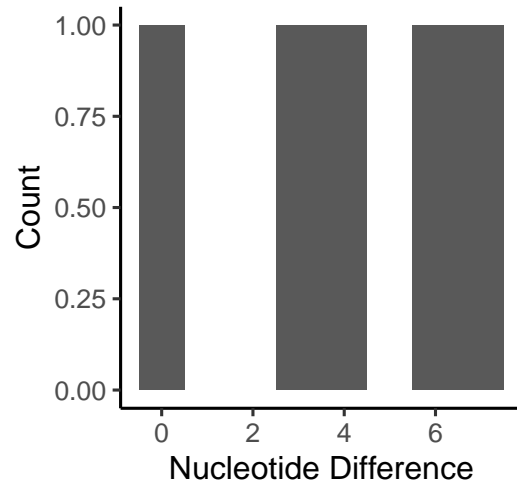
IGHV1–69*01_12_13

6073 sequences assigned
2558 (42.1%) exact matches, in which:
2540 unique CDR3
7 unique J



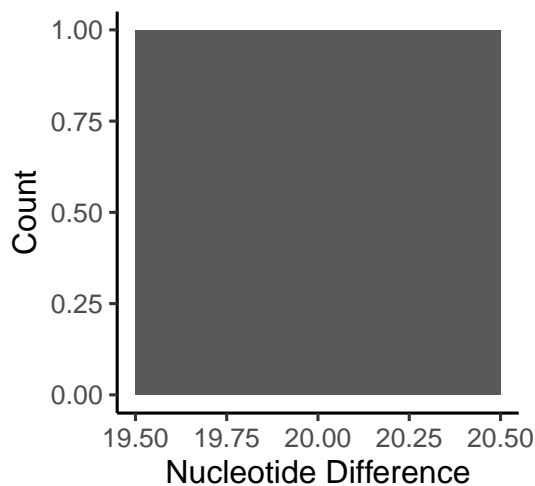
IGHV2–26*01

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



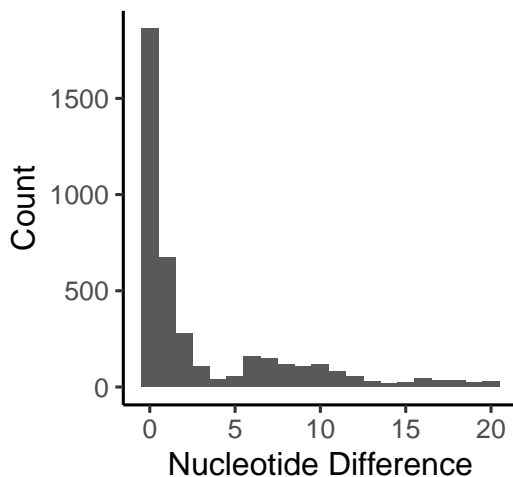
IGHV1–68*01

1 sequences assigned
No exact matches.



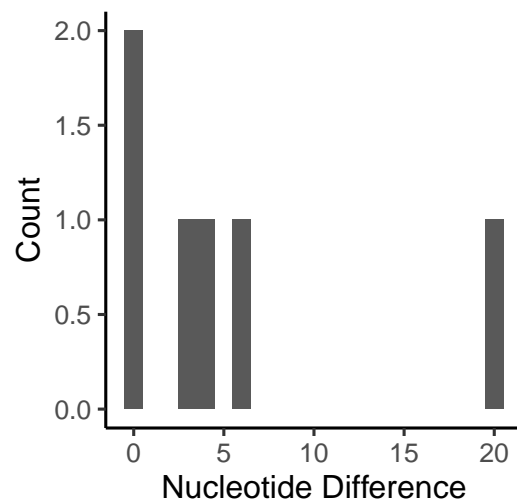
IGHV1–69*04_09

4428 sequences assigned
1862 (42.1%) exact matches, in which:
1848 unique CDR3
7 unique J



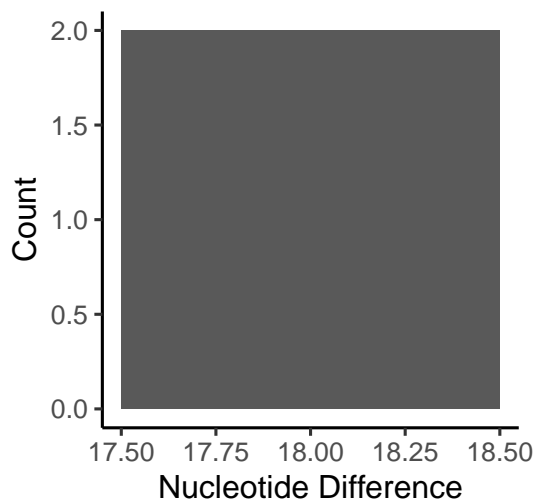
IGHV2–26*02

15 sequences assigned
2 (13.3%) exact matches, in which:
2 unique CDR3
2 unique J



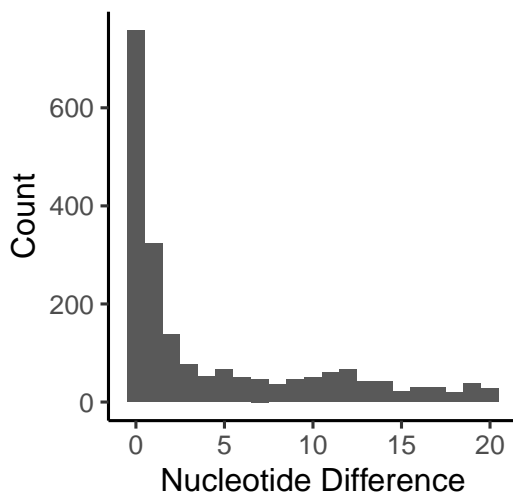
IGHV1–69–2*01

9 sequences assigned
No exact matches.



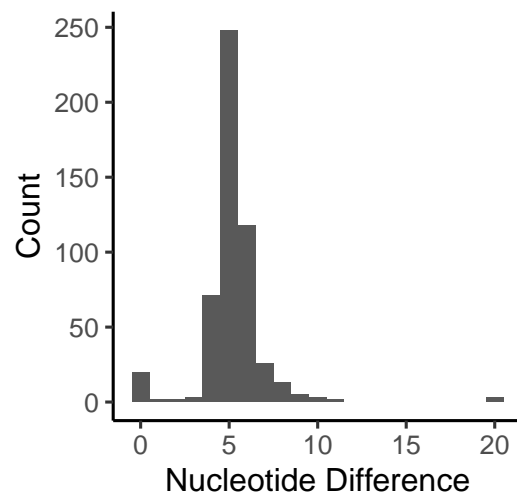
IGHV2–5*02

2194 sequences assigned
758 (34.5%) exact matches, in which:
757 unique CDR3
7 unique J



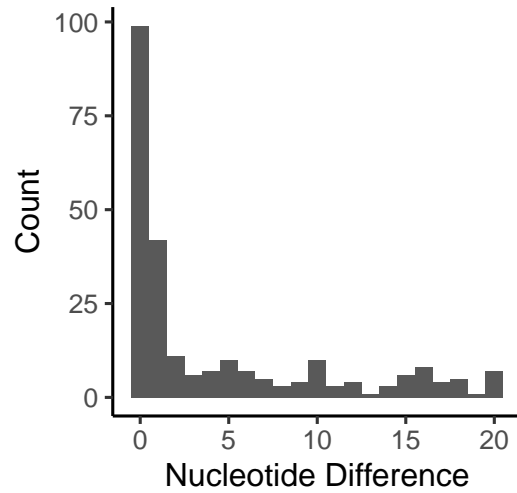
IGHV2–26*04

521 sequences assigned
20 (3.8%) exact matches, in which:
20 unique CDR3
5 unique J



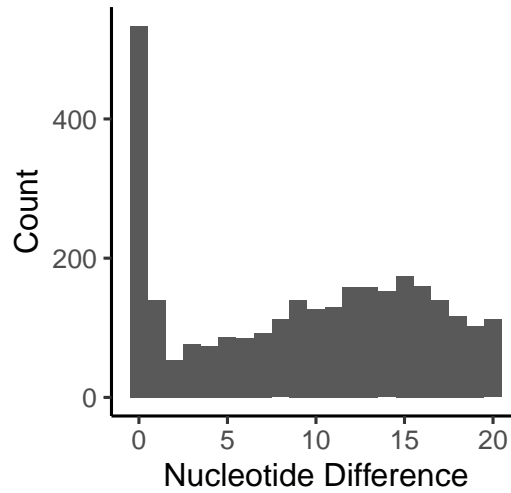
IGHV2-70*01

287 sequences assigned
99 (34.5%) exact matches, in which:
99 unique CDR3
5 unique J



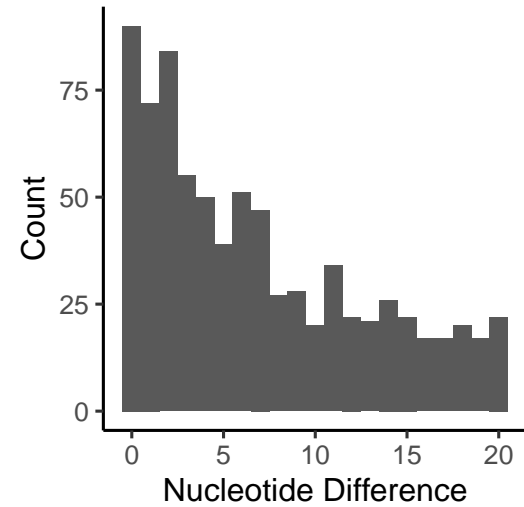
IGHV3-7*04

3609 sequences assigned
534 (14.8%) exact matches, in which:
507 unique CDR3
7 unique J



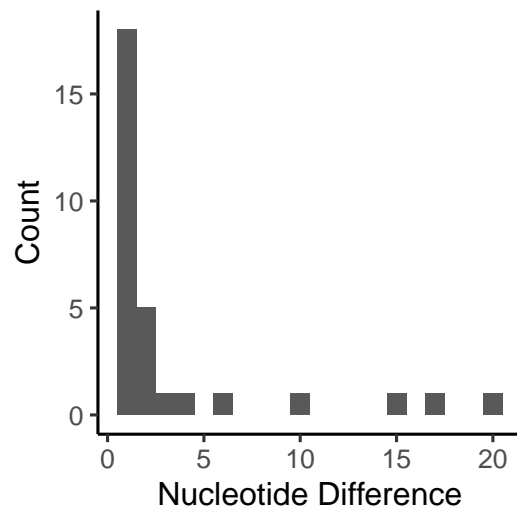
IGHV3-11*04

949 sequences assigned
90 (9.5%) exact matches, in which:
90 unique CDR3
7 unique J



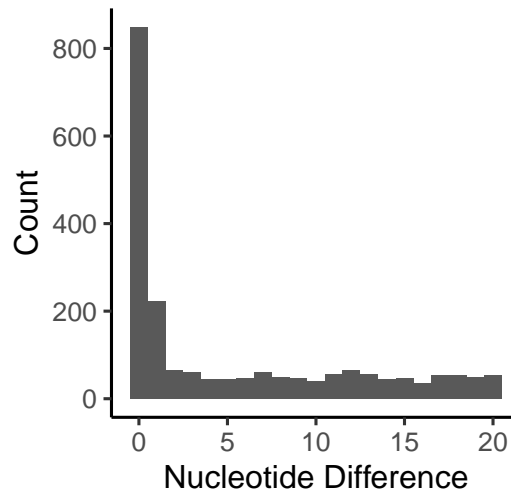
IGHV2-70*12

33 sequences assigned
No exact matches.



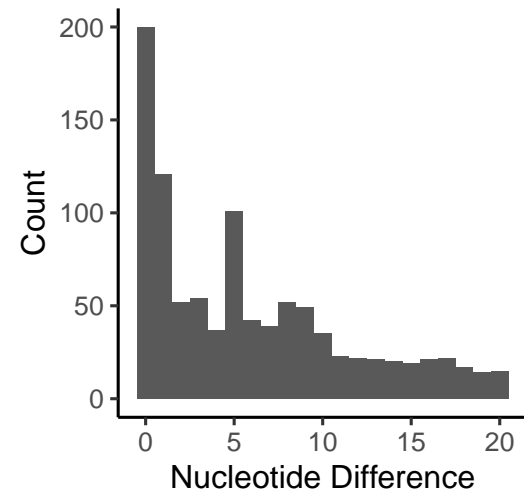
IGHV3-9*01

2480 sequences assigned
849 (34.2%) exact matches, in which:
797 unique CDR3
7 unique J



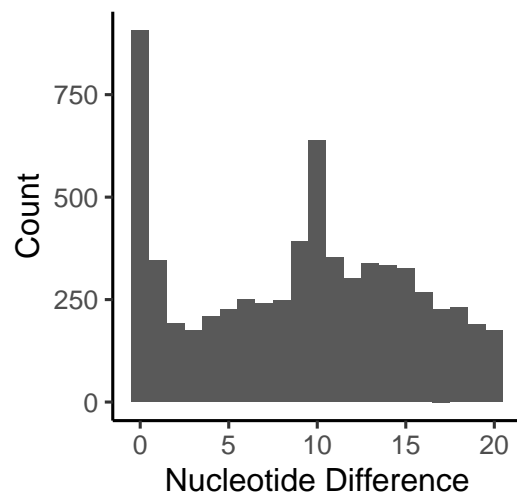
IGHV3-11*06

1156 sequences assigned
200 (17.3%) exact matches, in which:
200 unique CDR3
7 unique J



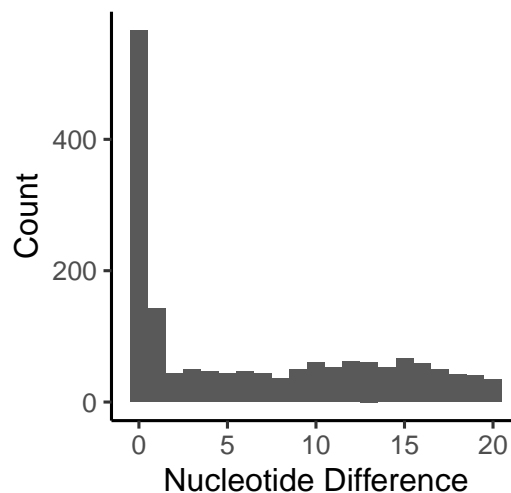
IGHV3-7*01

7455 sequences assigned
907 (12.2%) exact matches, in which:
864 unique CDR3
7 unique J



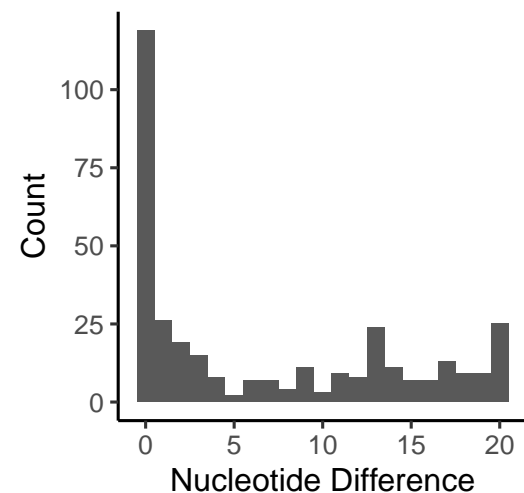
IGHV3-11*01

2226 sequences assigned
566 (25.4%) exact matches, in which:
540 unique CDR3
7 unique J



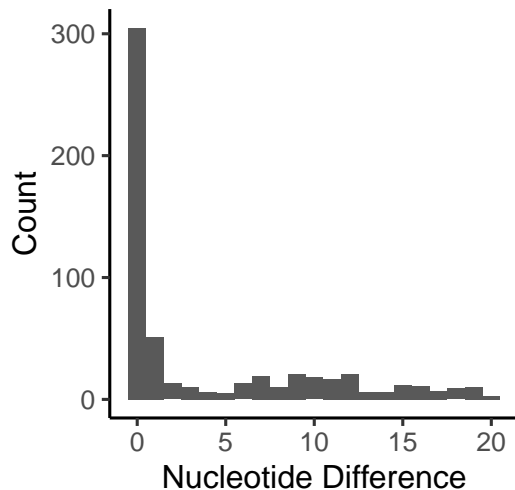
IGHV3-13*01

470 sequences assigned
119 (25.3%) exact matches, in which:
106 unique CDR3
6 unique J



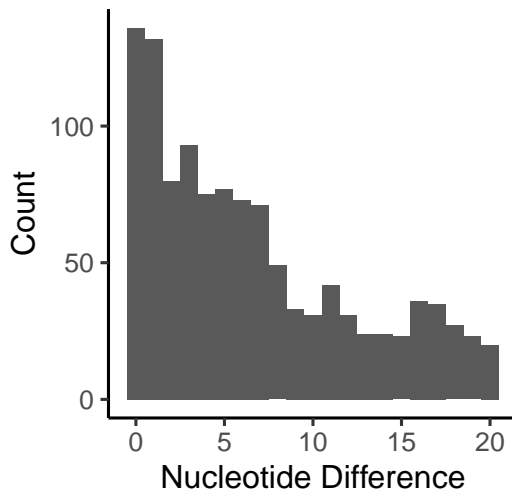
IGHV3-13*04

1066 sequences assigned
305 (28.6%) exact matches, in which:
286 unique CDR3
6 unique J



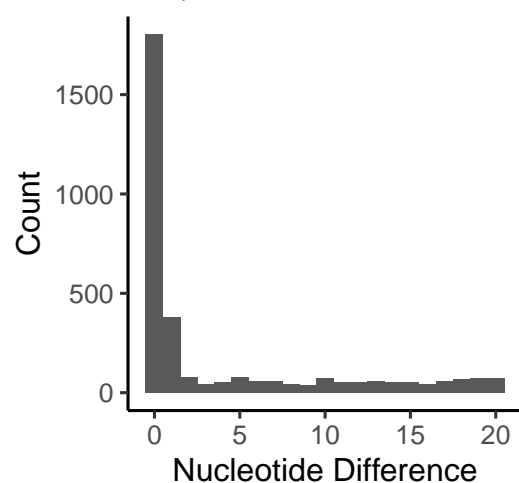
IGHV3-21*04

1372 sequences assigned
136 (9.9%) exact matches, in which:
136 unique CDR3
7 unique J



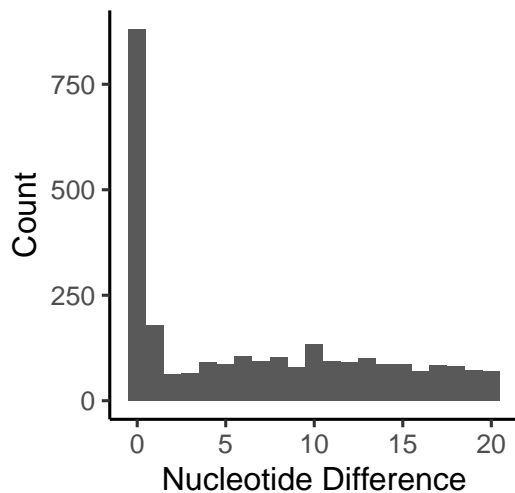
IGHV3-30-3*01

4094 sequences assigned
1803 (44%) exact matches, in which:
1723 unique CDR3
7 unique J



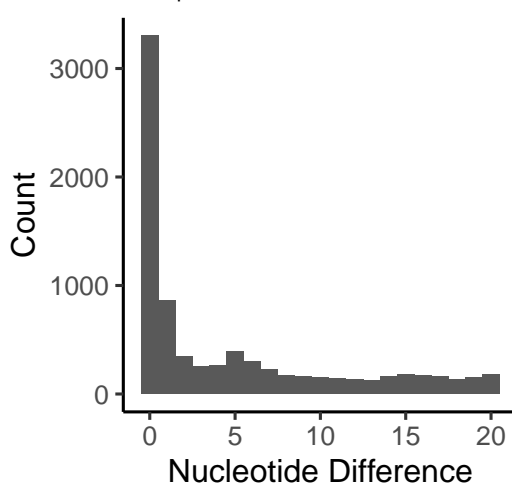
IGHV3-15*01_02

3380 sequences assigned
881 (26.1%) exact matches, in which:
850 unique CDR3
7 unique J



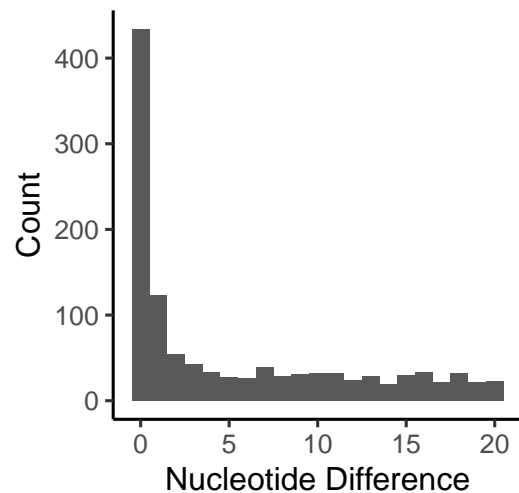
IGHV3-21*01_02

9405 sequences assigned
3302 (35.1%) exact matches, in which:
3111 unique CDR3
7 unique J



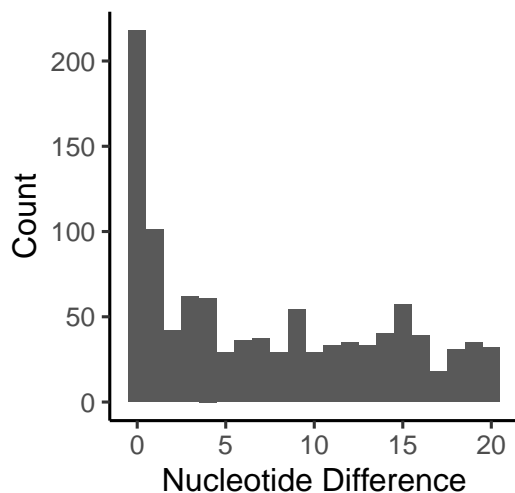
IGHV3-30*03

1437 sequences assigned
434 (30.2%) exact matches, in which:
429 unique CDR3
7 unique J



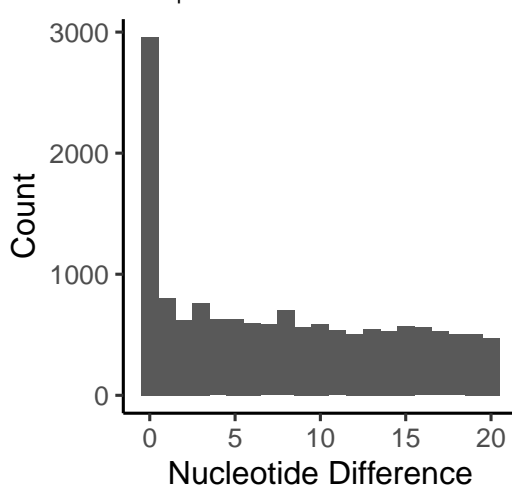
IGHV3-20*03_04

1298 sequences assigned
218 (16.8%) exact matches, in which:
209 unique CDR3
7 unique J



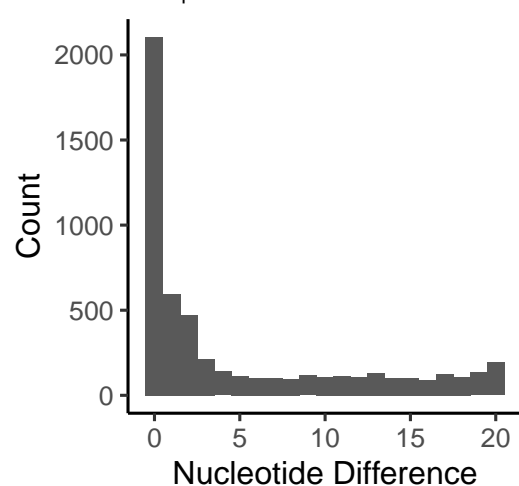
IGHV3-23*01_04

19148 sequences assigned
2959 (15.5%) exact matches, in which:
2773 unique CDR3
7 unique J



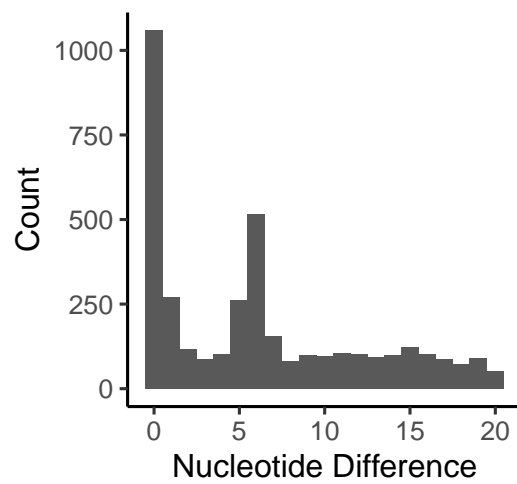
IGHV3-30*18

6716 sequences assigned
2105 (31.3%) exact matches, in which:
1996 unique CDR3
7 unique J



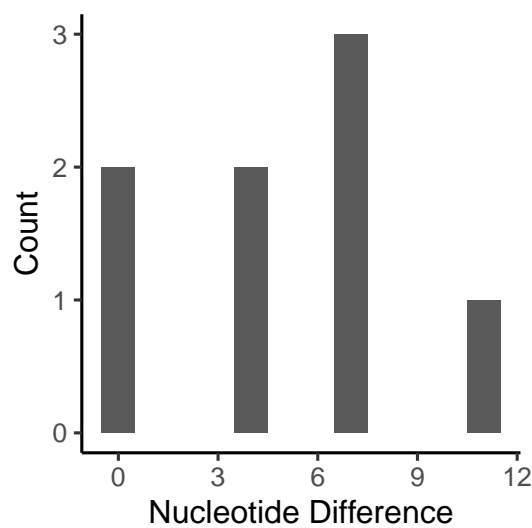
IGHV3–33*01

4153 sequences assigned
1059 (25.5%) exact matches, in which:
1020 unique CDR3
7 unique J



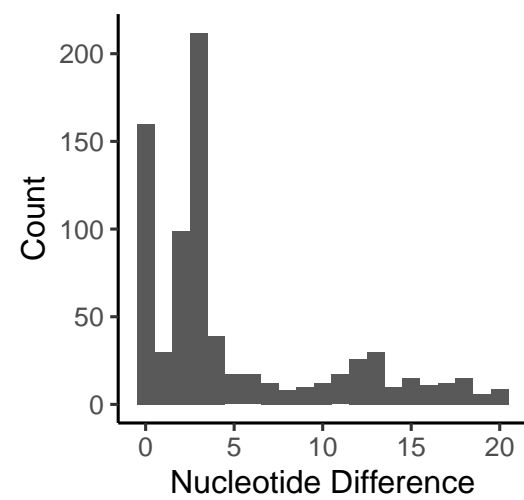
IGHV3–35*01

8 sequences assigned
2 (25%) exact matches, in which:
2 unique CDR3
1 unique J



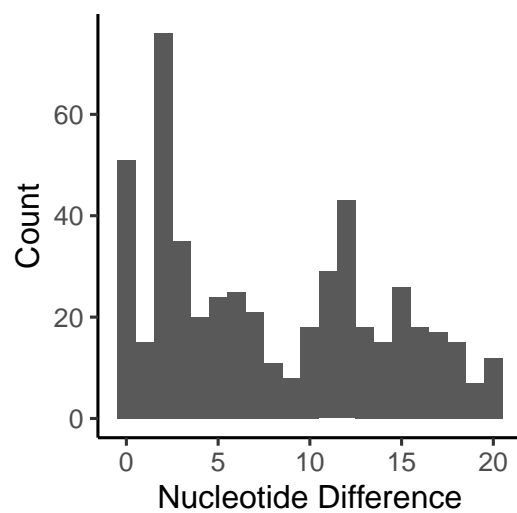
IGHV3–43*01

861 sequences assigned
160 (18.6%) exact matches, in which:
153 unique CDR3
7 unique J



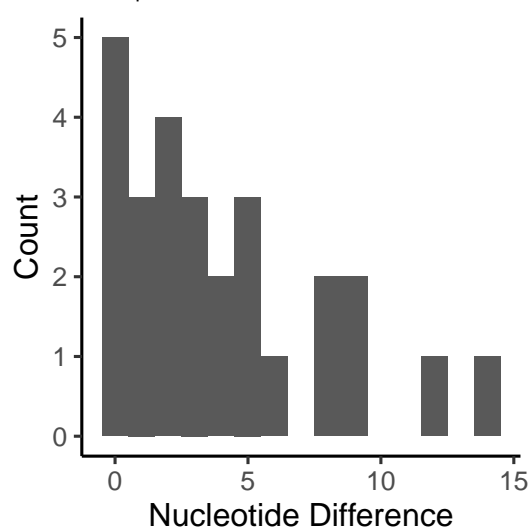
IGHV3–33*06

566 sequences assigned
51 (9%) exact matches, in which:
50 unique CDR3
6 unique J



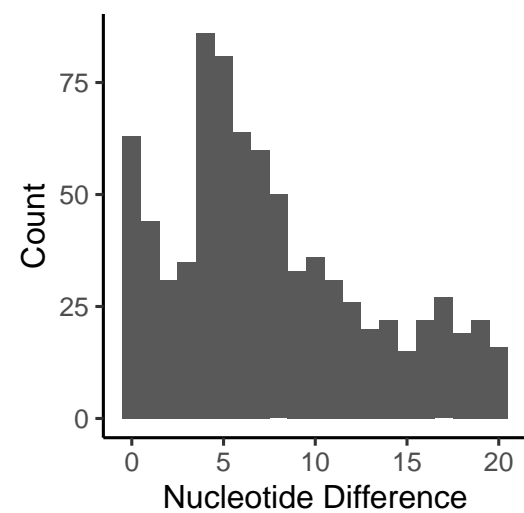
IGHV3–38–3*01

28 sequences assigned
5 (17.9%) exact matches, in which:
5 unique CDR3
2 unique J



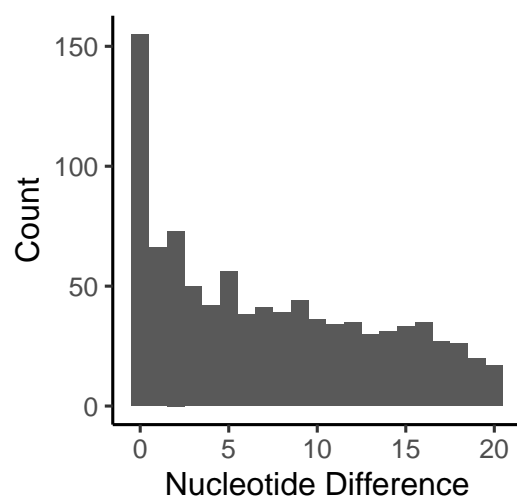
IGHV3–48*01

999 sequences assigned
63 (6.3%) exact matches, in which:
63 unique CDR3
6 unique J



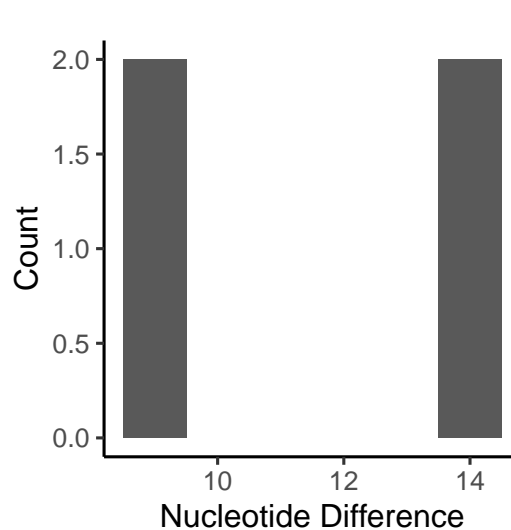
IGHV3–33*08

1026 sequences assigned
155 (15.1%) exact matches, in which:
154 unique CDR3
7 unique J



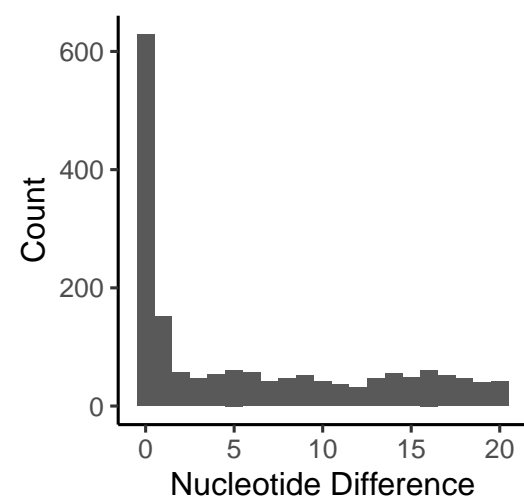
IGHV3–38*03

4 sequences assigned
No exact matches.



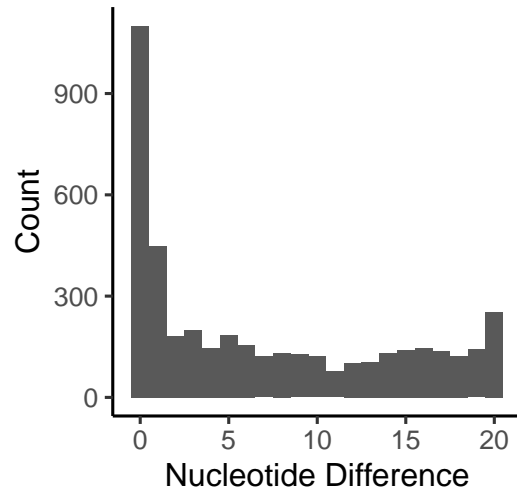
IGHV3–48*02

1992 sequences assigned
629 (31.6%) exact matches, in which:
593 unique CDR3
7 unique J



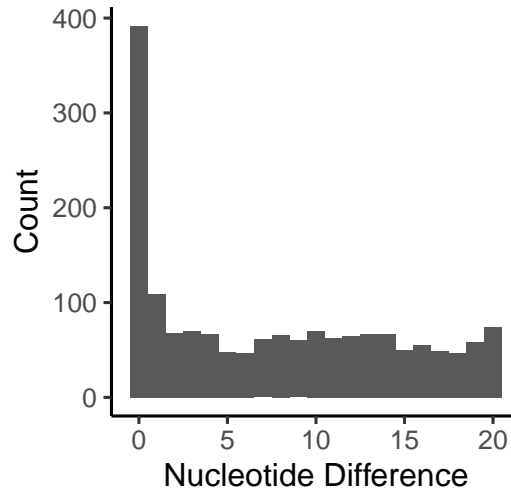
IGHV3-48*04

6723 sequences assigned
1101 (16.4%) exact matches, in which:
1055 unique CDR3
7 unique J



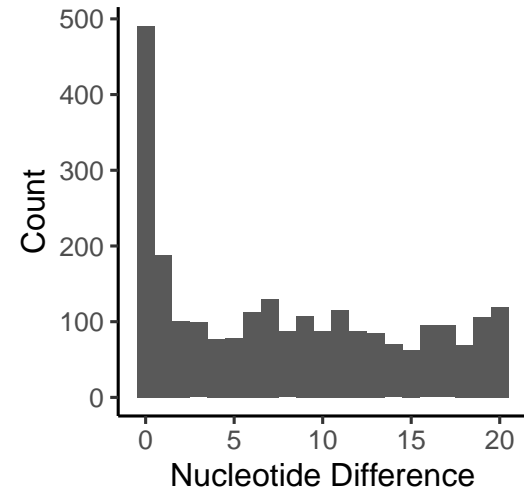
IGHV3-53*01_02

2174 sequences assigned
392 (18%) exact matches, in which:
378 unique CDR3
7 unique J



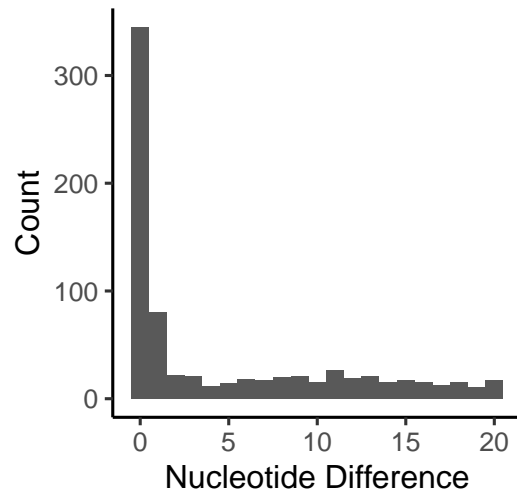
IGHV3-66*01

3535 sequences assigned
491 (13.9%) exact matches, in which:
468 unique CDR3
7 unique J



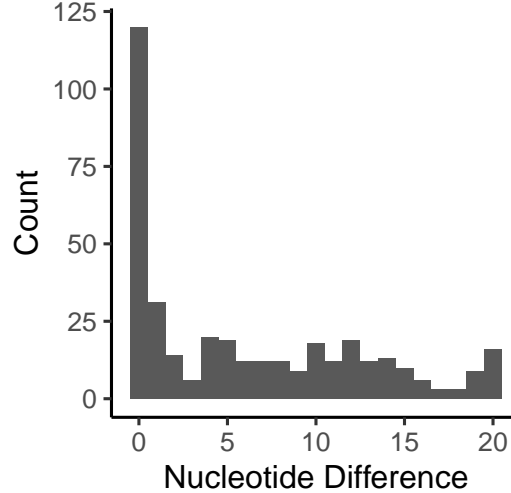
IGHV3-49*03_05

901 sequences assigned
345 (38.3%) exact matches, in which:
336 unique CDR3
7 unique J



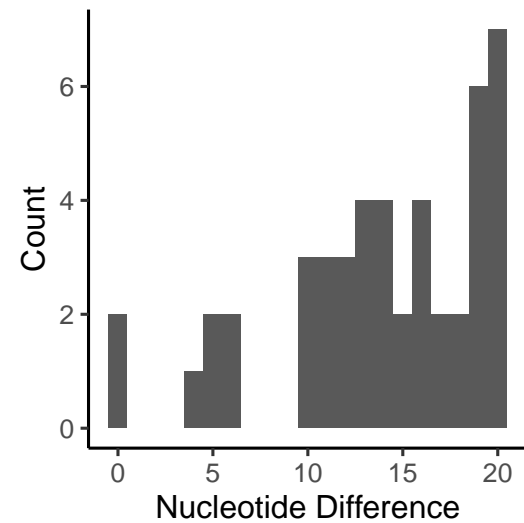
IGHV3-64*01

506 sequences assigned
120 (23.7%) exact matches, in which:
113 unique CDR3
6 unique J



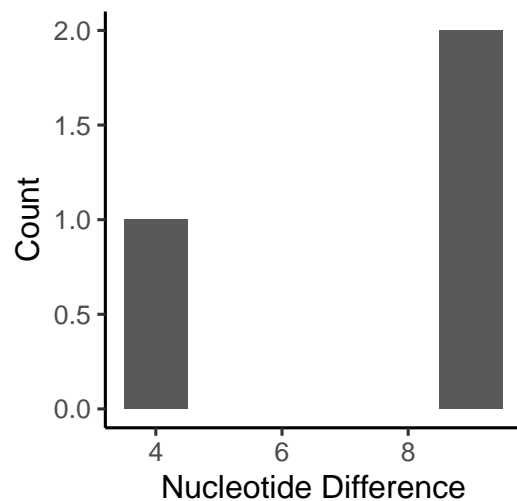
IGHV3-69-1*01

150 sequences assigned
2 (1.3%) exact matches, in which:
2 unique CDR3
2 unique J



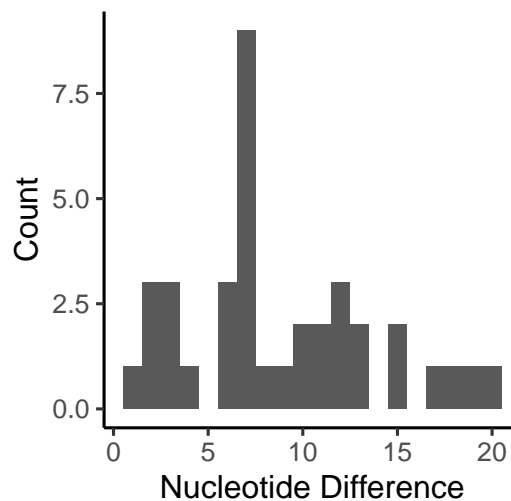
IGHV3-52*01_03

3 sequences assigned
No exact matches.



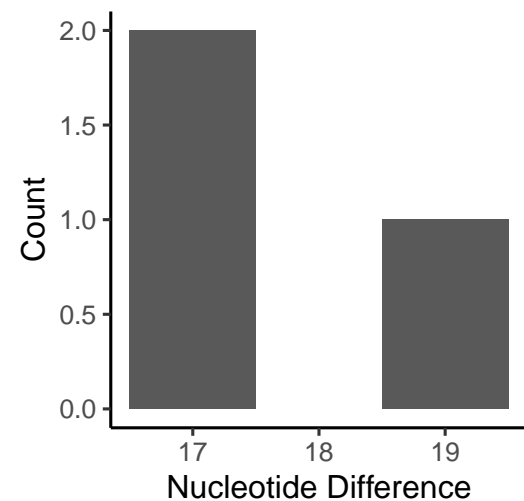
IGHV3-64*04

42 sequences assigned
No exact matches.



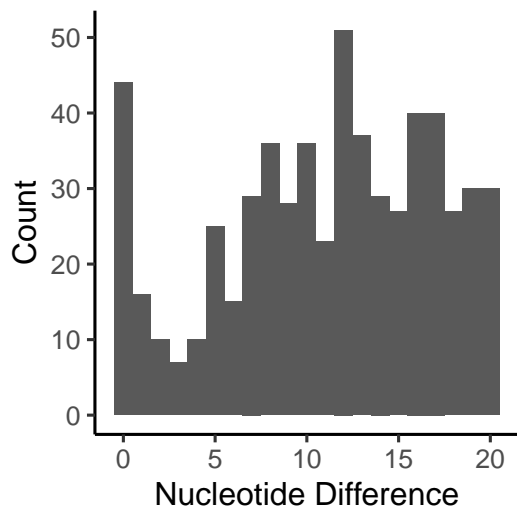
IGHV3-69-1*02

71 sequences assigned
No exact matches.



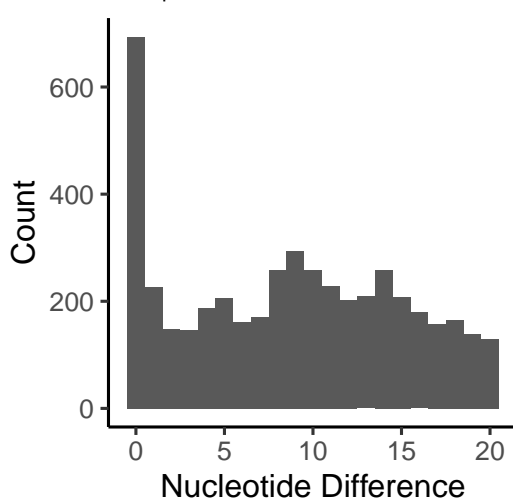
IGHV3-72*01

787 sequences assigned
44 (5.6%) exact matches, in which:
40 unique CDR3
5 unique J



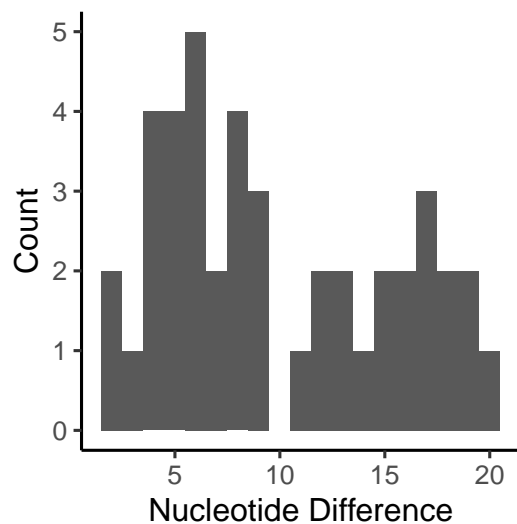
IGHV3-74*01_02

5381 sequences assigned
694 (12.9%) exact matches, in which:
650 unique CDR3
7 unique J



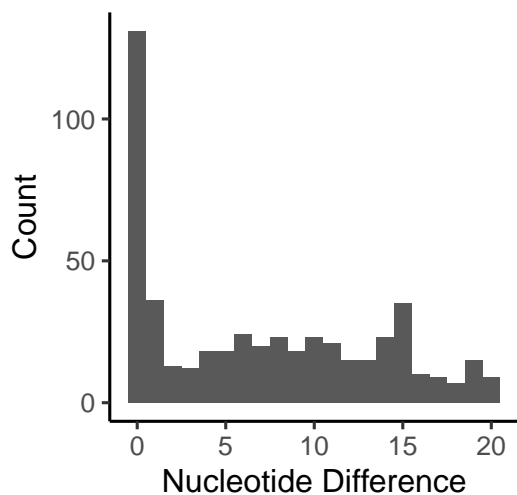
IGHV3-NL1*01

76 sequences assigned
No exact matches.



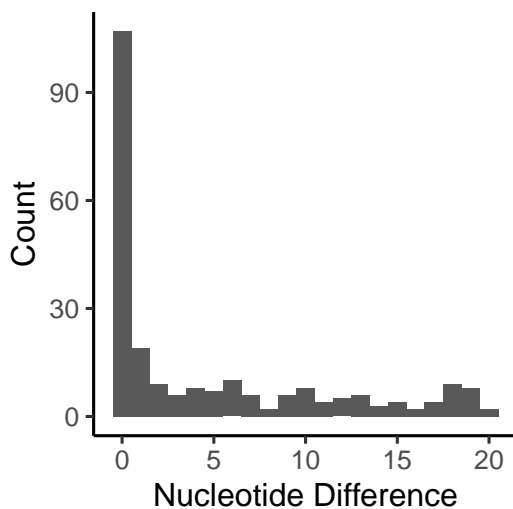
IGHV3-73*01_02

592 sequences assigned
131 (22.1%) exact matches, in which:
126 unique CDR3
7 unique J



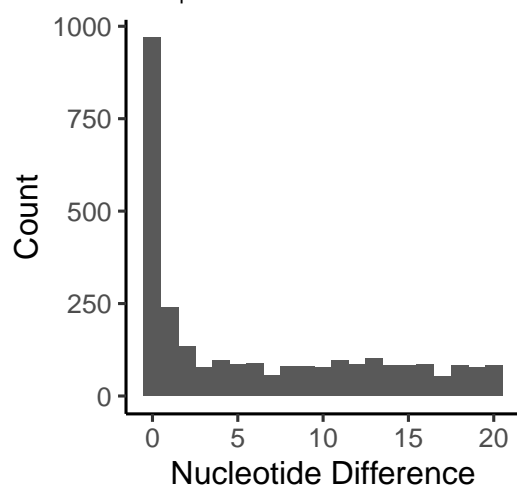
IGHV3-43D*03

300 sequences assigned
107 (35.7%) exact matches, in which:
103 unique CDR3
6 unique J



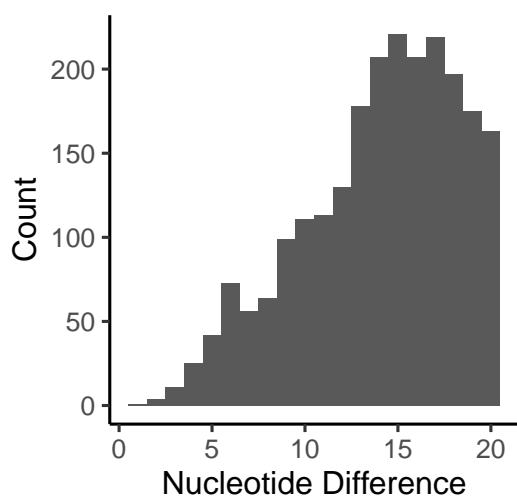
IGHV4-4*07

3437 sequences assigned
969 (28.2%) exact matches, in which:
955 unique CDR3
7 unique J



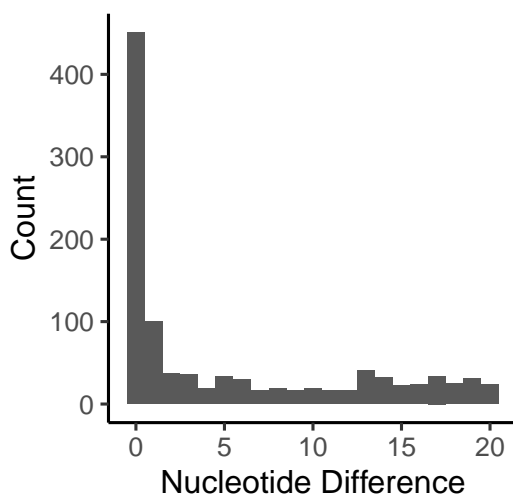
IGHV3-74*03

3303 sequences assigned
No exact matches.



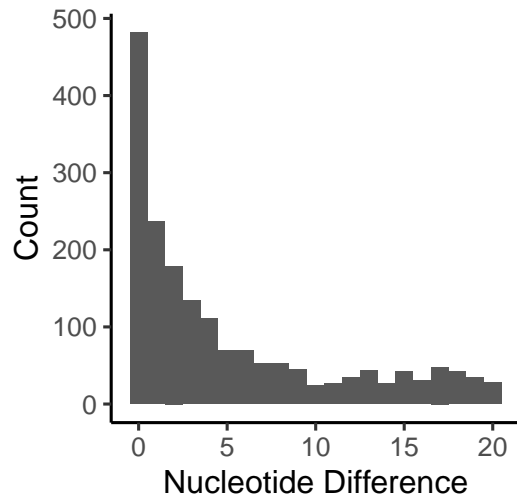
IGHV3-64D*06

1287 sequences assigned
451 (35%) exact matches, in which:
416 unique CDR3
7 unique J



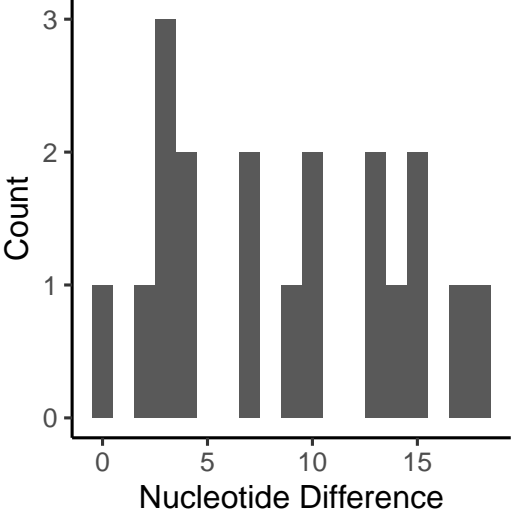
IGHV4-4*02_03

2322 sequences assigned
482 (20.8%) exact matches, in which:
480 unique CDR3
7 unique J



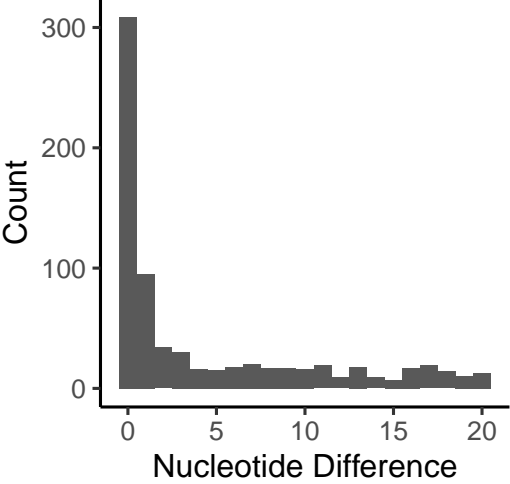
IGHV4-28*03

23 sequences assigned
1 (4.3%) exact matches, in which:
1 unique CDR3
1 unique J



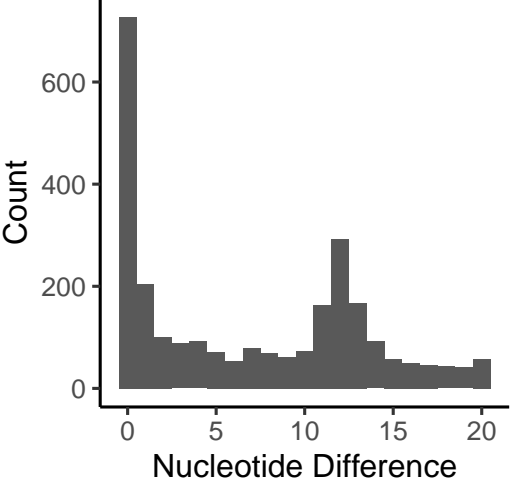
IGHV4-30-4*01

930 sequences assigned
309 (33.2%) exact matches, in which:
307 unique CDR3
7 unique J



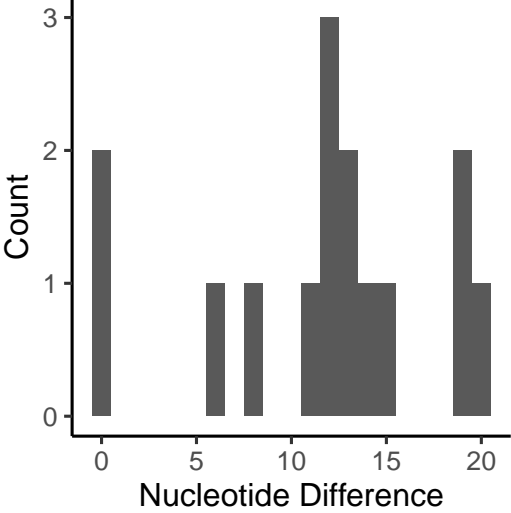
IGHV4-38-2*02

3096 sequences assigned
728 (23.5%) exact matches, in which:
726 unique CDR3
7 unique J



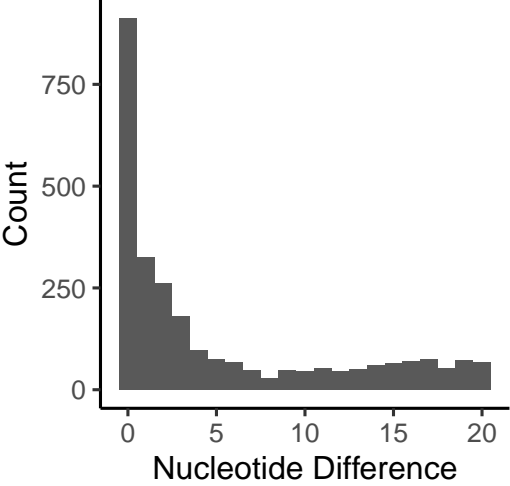
IGHV4-28*01_07

17 sequences assigned
2 (11.8%) exact matches, in which:
2 unique CDR3
2 unique J



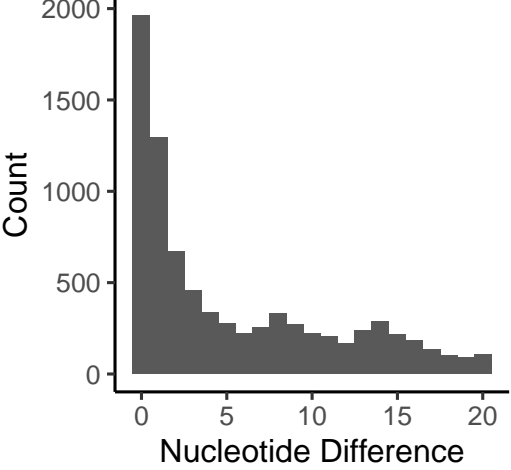
IGHV4-31*02

3599 sequences assigned
913 (25.4%) exact matches, in which:
908 unique CDR3
7 unique J



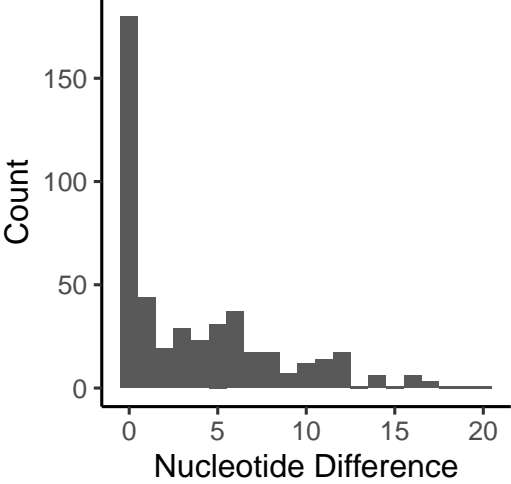
IGHV4-39*07

9490 sequences assigned
1961 (20.7%) exact matches, in which:
1927 unique CDR3
7 unique J



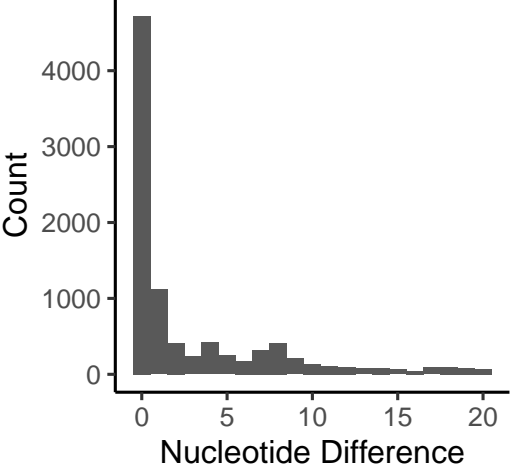
IGHV4-30-2*01

508 sequences assigned
180 (35.4%) exact matches, in which:
176 unique CDR3
5 unique J



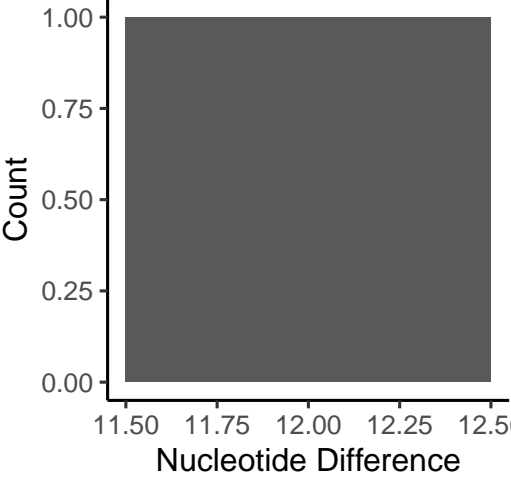
IGHV4-34*01_02

10074 sequences assigned
4720 (46.9%) exact matches, in which:
4654 unique CDR3
7 unique J



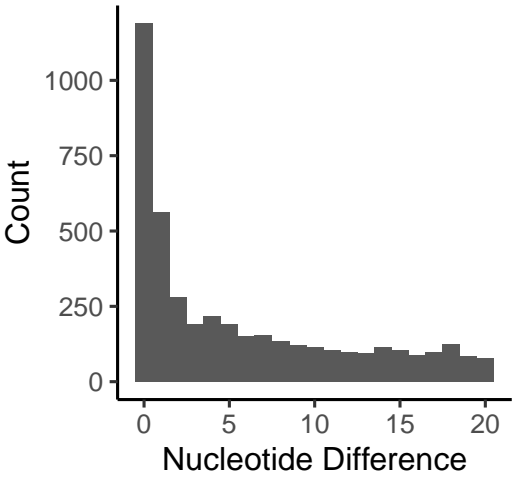
IGHV4-55*07

1 sequences assigned
No exact matches.



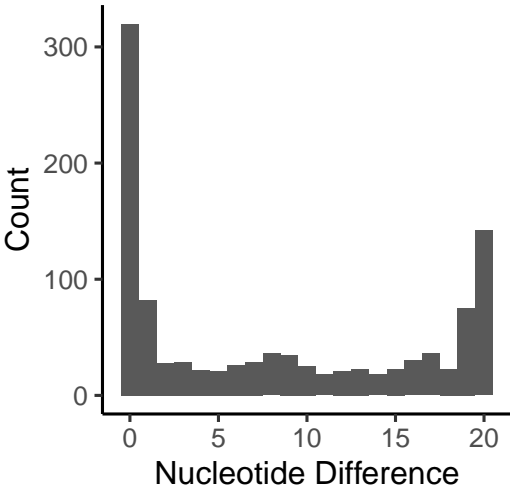
IGHV4-59*08

5111 sequences assigned
1189 (23.3%) exact matches, in which:
1175 unique CDR3
7 unique J



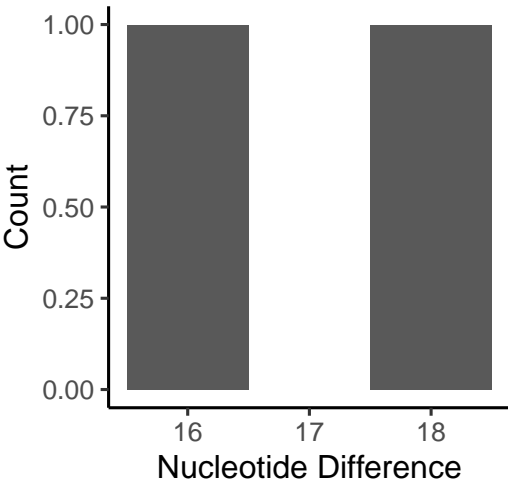
IGHV4-61*01

1444 sequences assigned
320 (22.2%) exact matches, in which:
320 unique CDR3
7 unique J



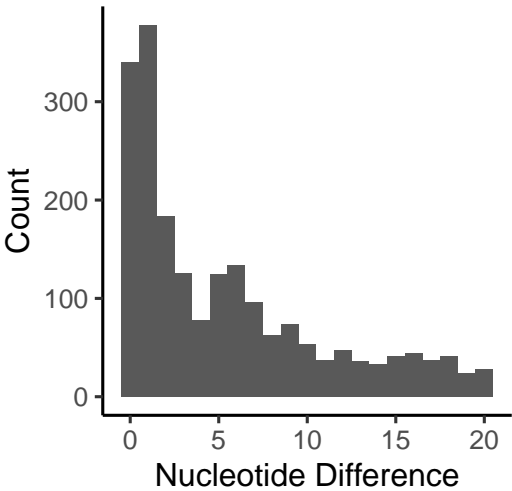
IGHV1/OR15-2*02_03

6 sequences assigned
No exact matches.



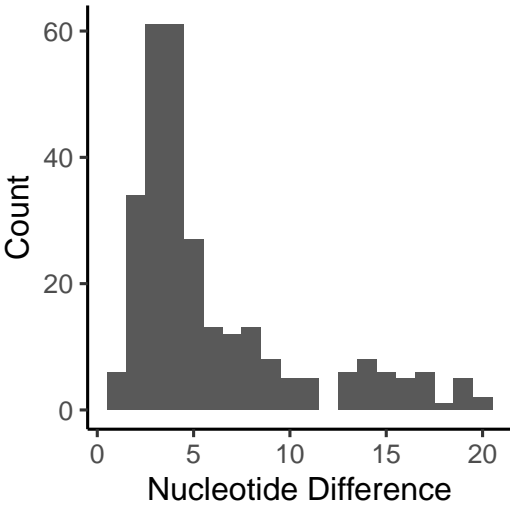
IGHV4-59*12

2267 sequences assigned
340 (15%) exact matches, in which:
338 unique CDR3
7 unique J



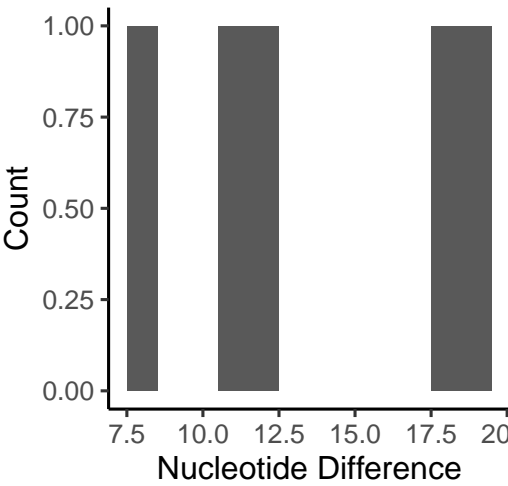
IGHV4-61*05

311 sequences assigned
No exact matches.



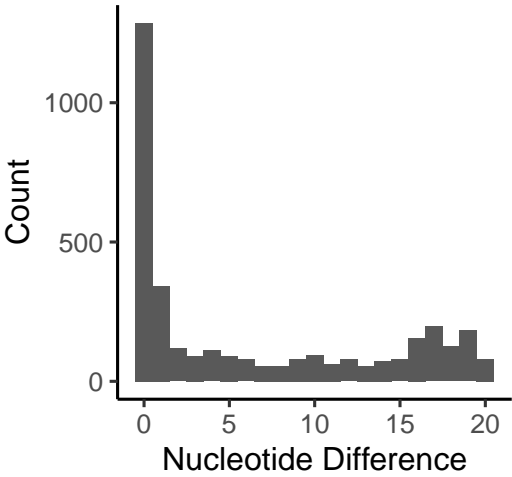
IGHV1/OR15-3*02

5 sequences assigned
No exact matches.



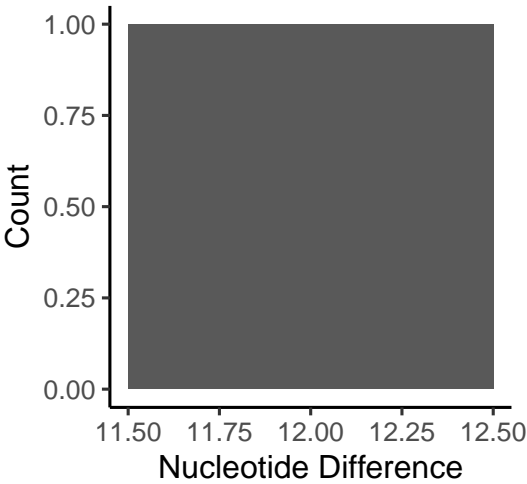
IGHV4-59*13

4323 sequences assigned
1286 (29.7%) exact matches, in which:
1276 unique CDR3
7 unique J



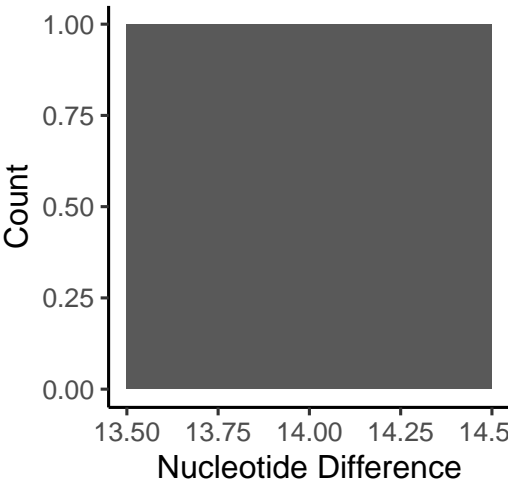
IGHV1/OR15-2*01

1 sequences assigned
No exact matches.



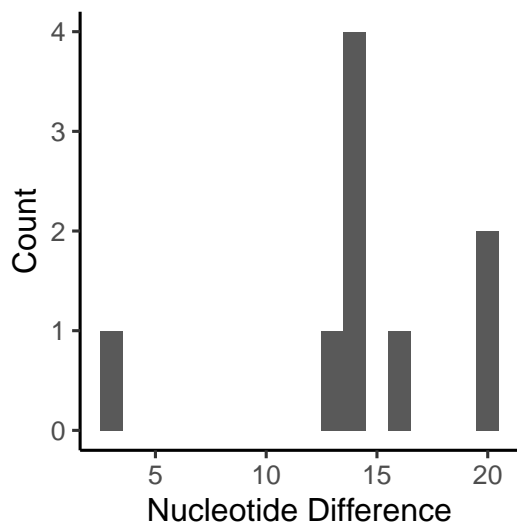
IGHV1/OR15-4*01

1 sequences assigned
No exact matches.



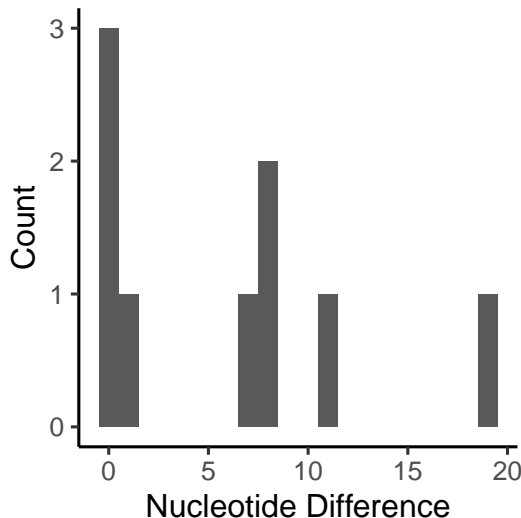
IGHV4/OR15-8*01

37 sequences assigned
No exact matches.



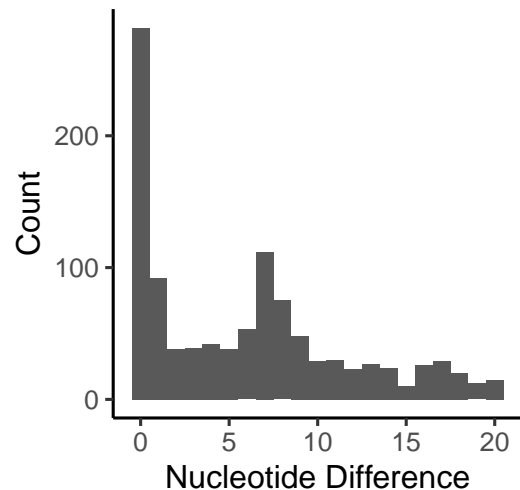
IGHV5-51*04

10 sequences assigned
3 (30%) exact matches, in which:
3 unique CDR3
2 unique J



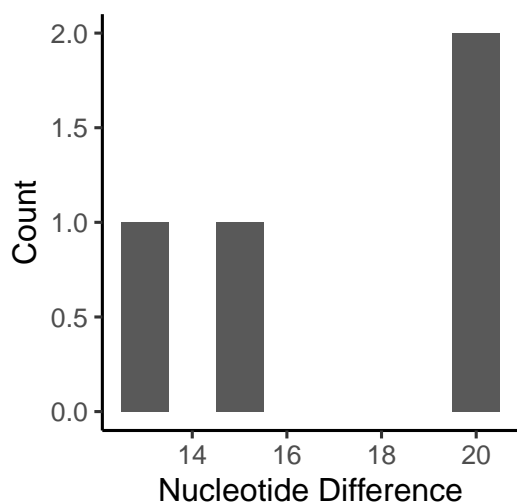
IGHV6-1*01_02

1181 sequences assigned
282 (23.9%) exact matches, in which:
279 unique CDR3
7 unique J



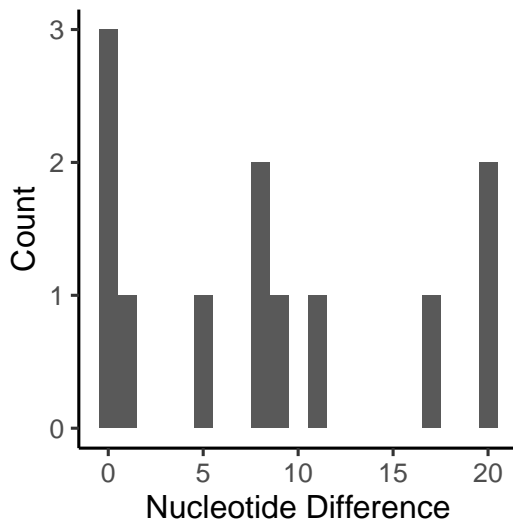
IGHV4/OR15-8*02

36 sequences assigned
No exact matches.



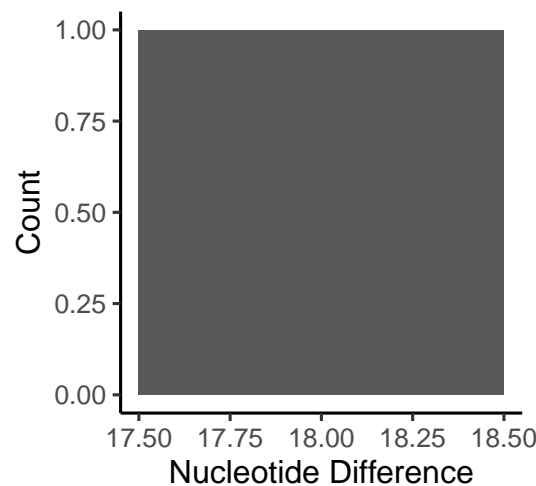
IGHV5-51*06

13 sequences assigned
3 (23.1%) exact matches, in which:
3 unique CDR3
3 unique J



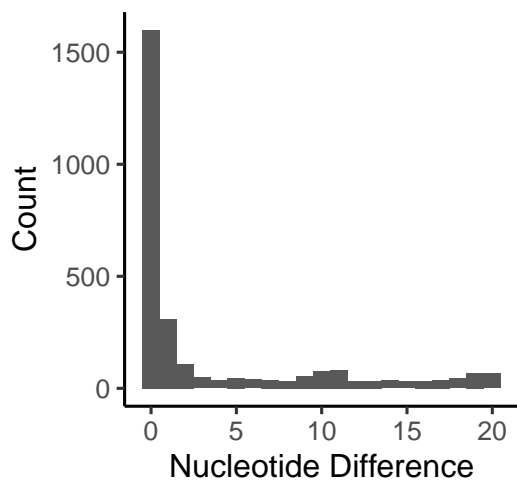
IGHV3/OR16-13*01

1 sequences assigned
No exact matches.



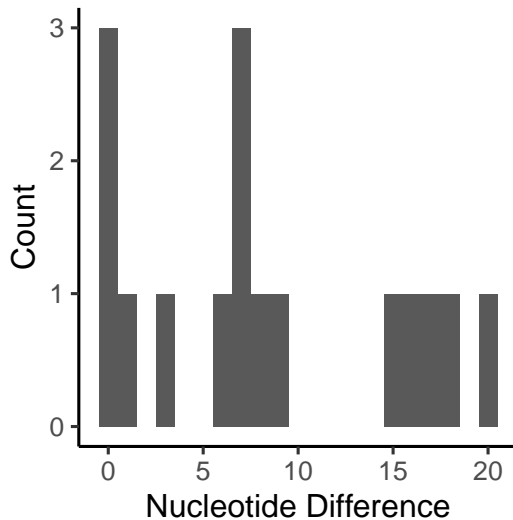
IGHV5-10-1*01_03

3098 sequences assigned
1599 (51.6%) exact matches, in which:
1547 unique CDR3
7 unique J



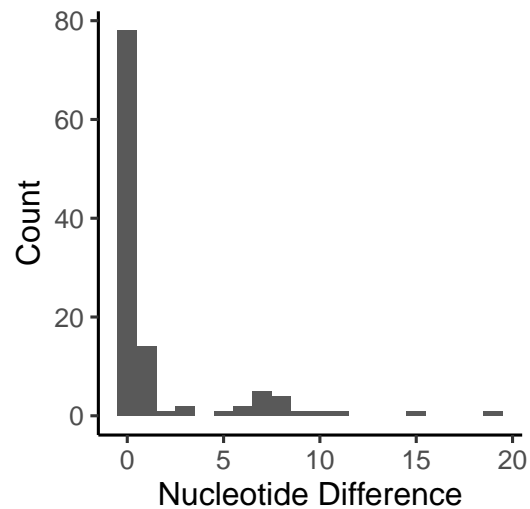
IGHV5-51*07

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

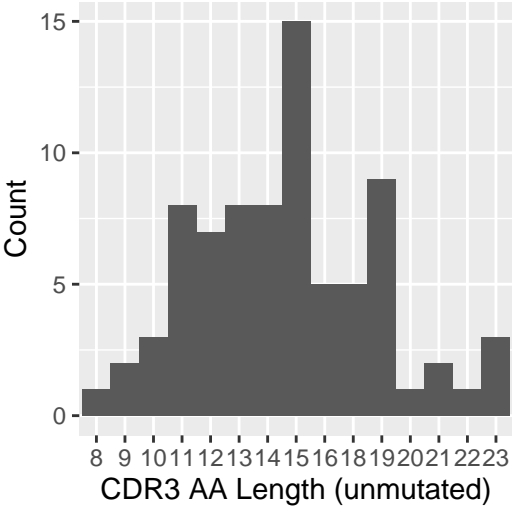


IGHV7-4-1*01_T63C

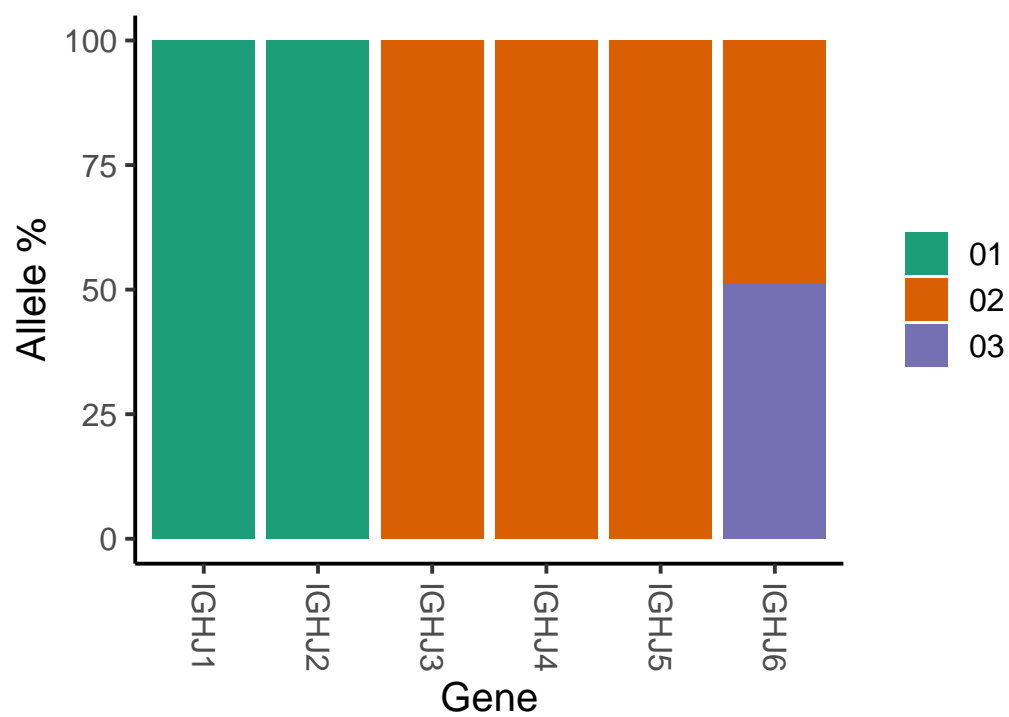
120 sequences assigned
78 (65%) exact matches, in which:
73 unique CDR3
5 unique J



IGHV7-4-1*01_T63C



Allele Usage



Sequence Count by IGHJ6 allele usage

