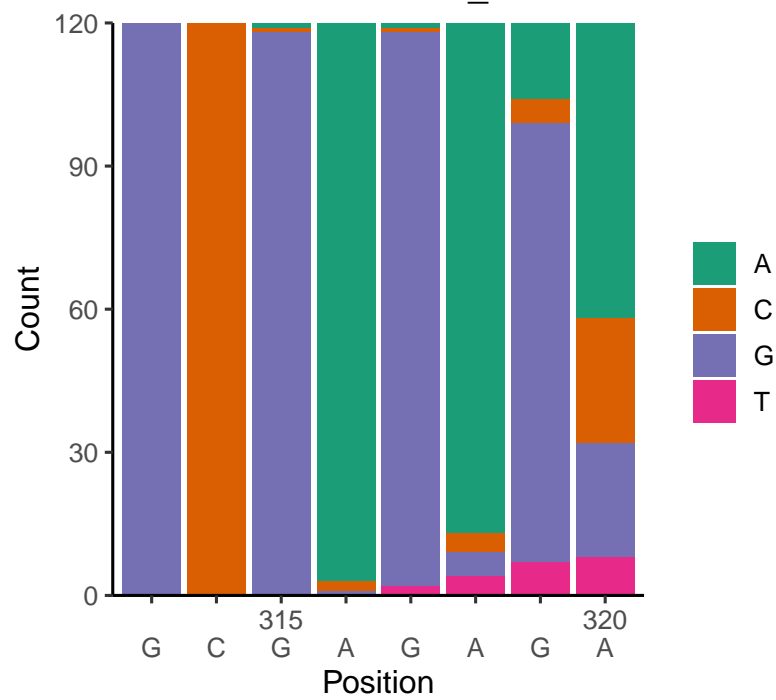
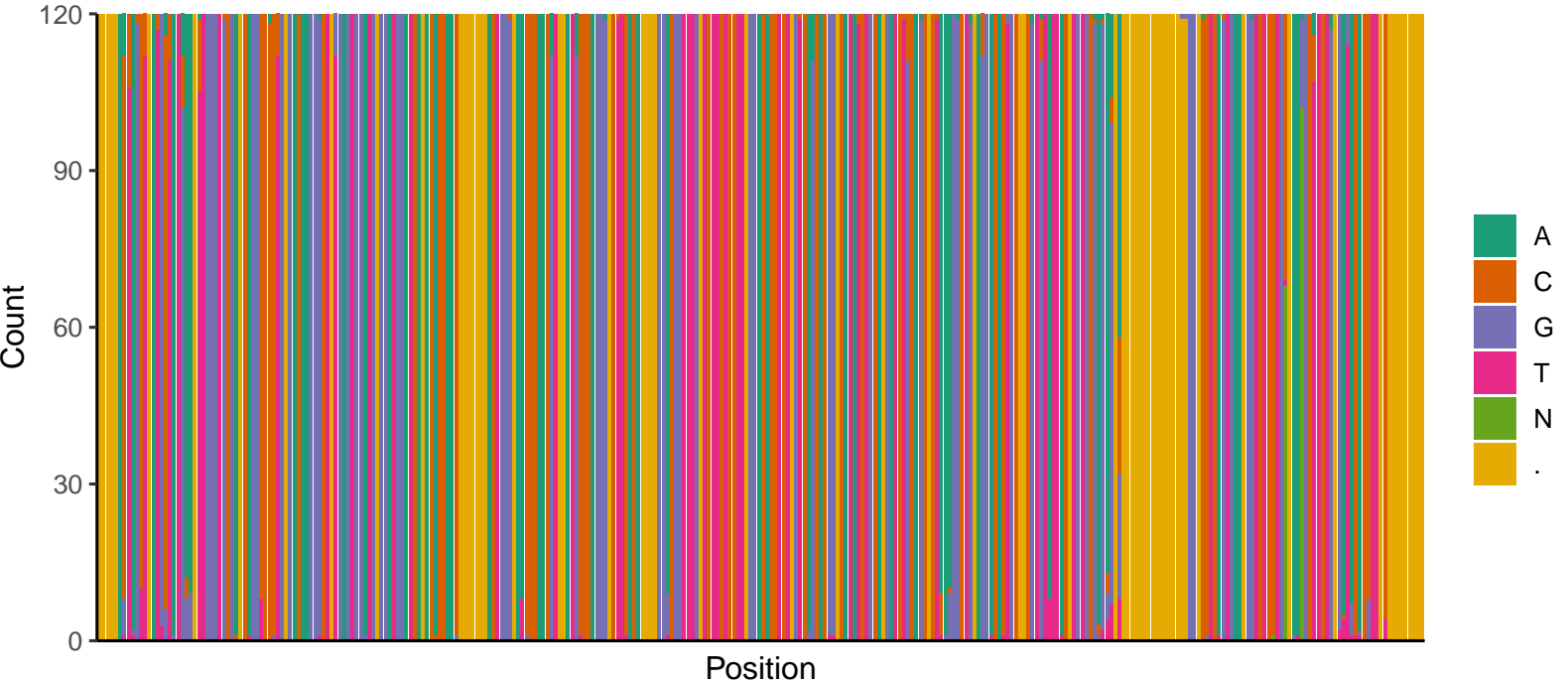


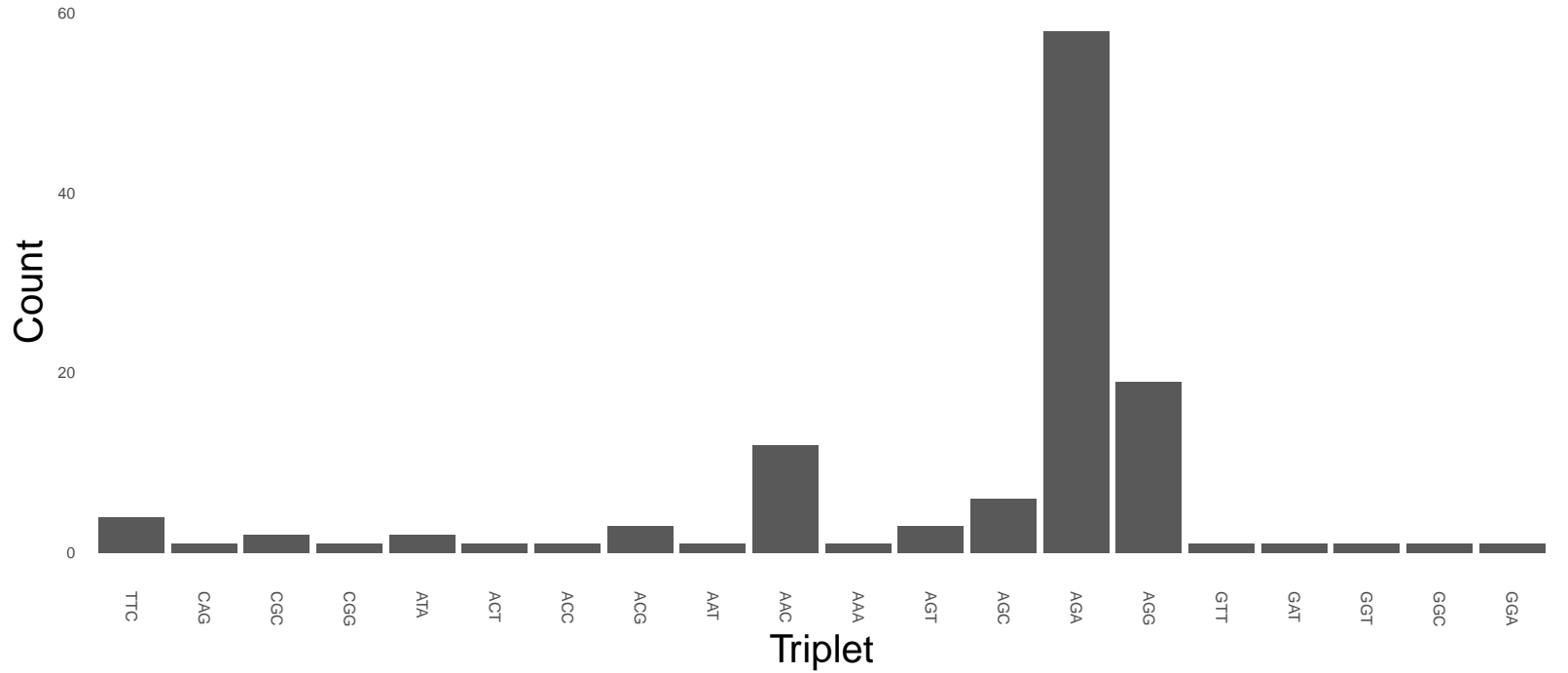
# Gene IGHV7-4-1\*01\_T63C



Gene IGHV7-4-1\*01\_T63C

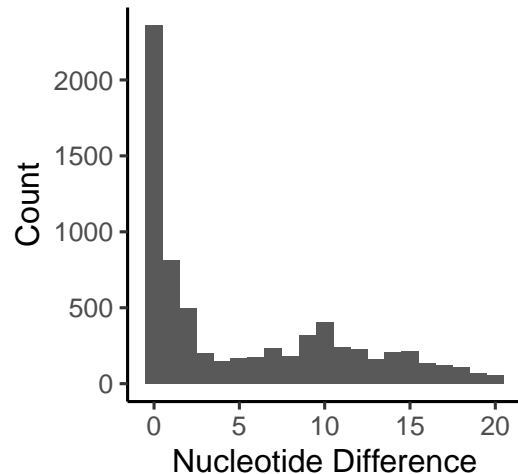


IGHV7-4-1\*01\_T63C- Final 3 nucleotides as a triplet



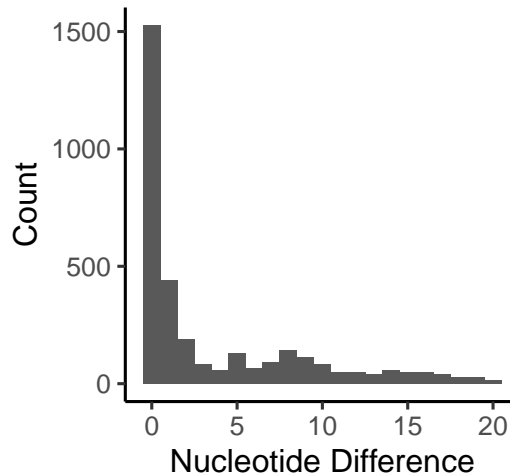
### IGHV1-2\*02

8633 sequences assigned  
2359 (27.3%) exact matches, in which:  
2320 unique CDR3  
7 unique J



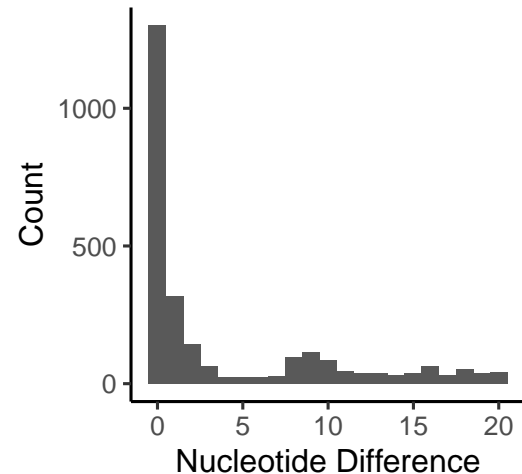
### IGHV1-8\*01

3469 sequences assigned  
1526 (44%) exact matches, in which:  
1510 unique CDR3  
7 unique J



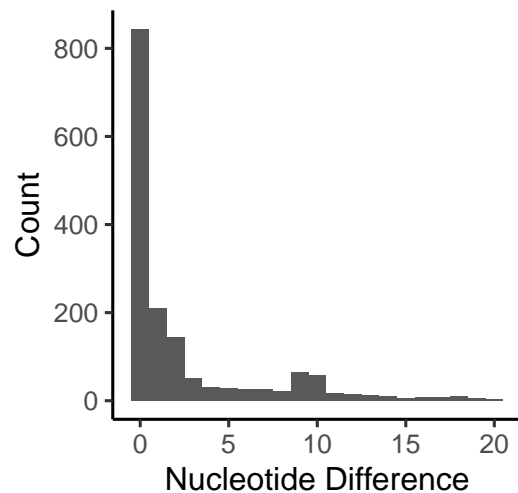
### IGHV1-24\*01

2806 sequences assigned  
1301 (46.4%) exact matches, in which:  
1289 unique CDR3  
7 unique J



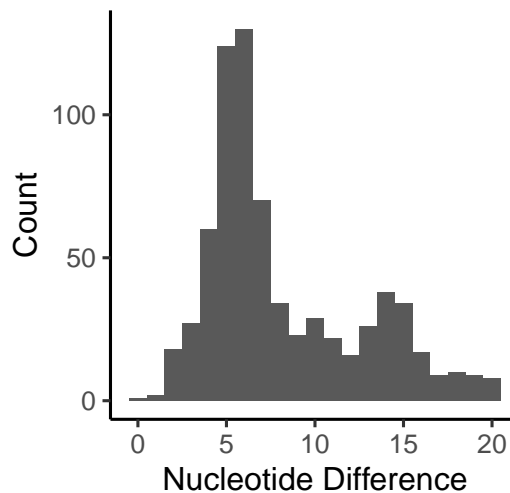
### IGHV1-2\*04

1621 sequences assigned  
844 (52.1%) exact matches, in which:  
834 unique CDR3  
7 unique J



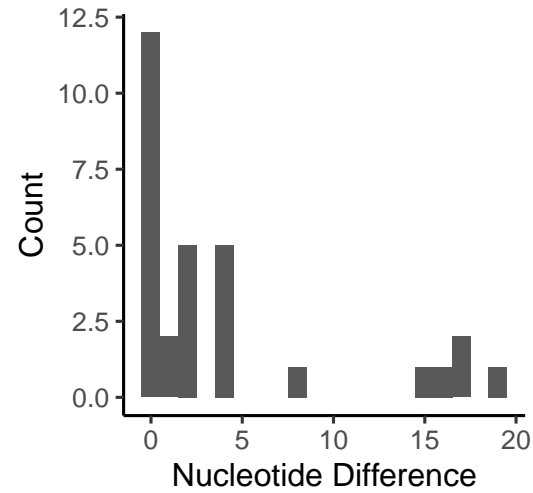
### IGHV1-8\*02

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



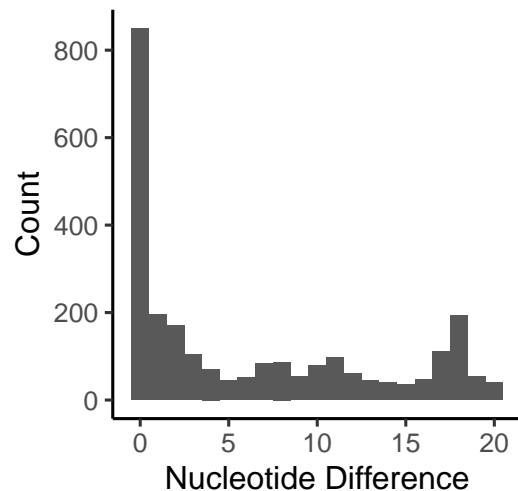
### IGHV1-45\*02

32 sequences assigned  
12 (37.5%) exact matches, in which:  
12 unique CDR3  
5 unique J



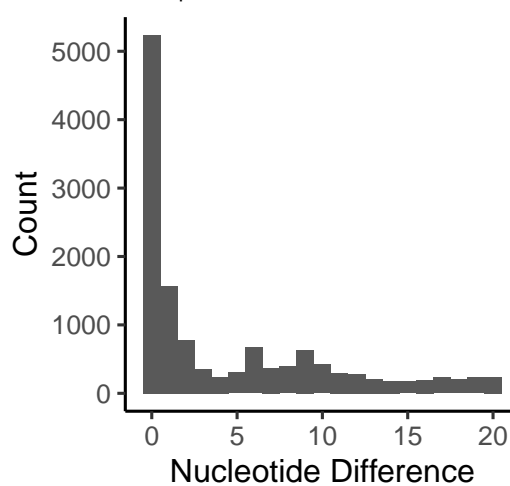
### IGHV1-3\*01\_05

3519 sequences assigned  
850 (24.2%) exact matches, in which:  
848 unique CDR3  
7 unique J



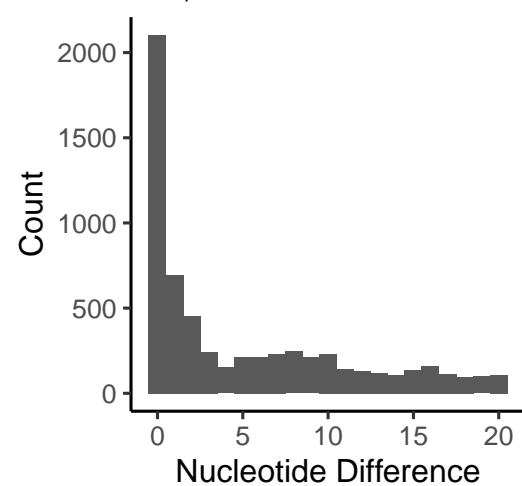
### IGHV1-18\*01

14845 sequences assigned  
5237 (35.3%) exact matches, in which:  
5149 unique CDR3  
7 unique J



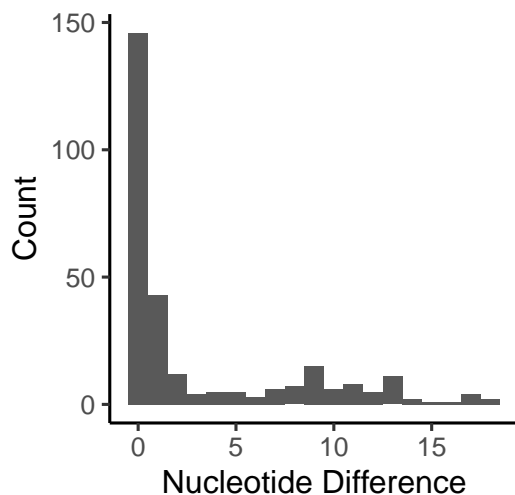
### IGHV1-46\*01

7057 sequences assigned  
2103 (29.8%) exact matches, in which:  
2076 unique CDR3  
7 unique J



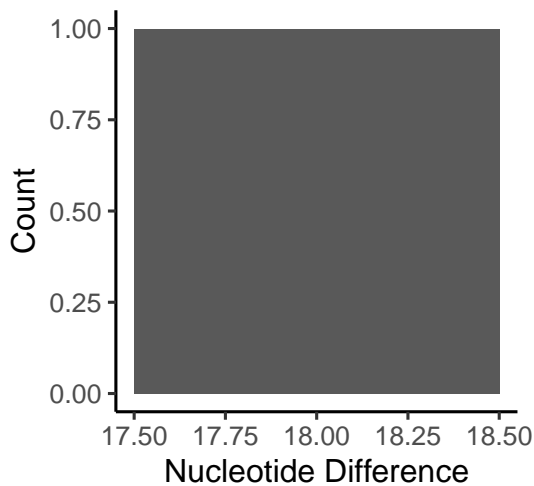
### IGHV1-58\*02

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



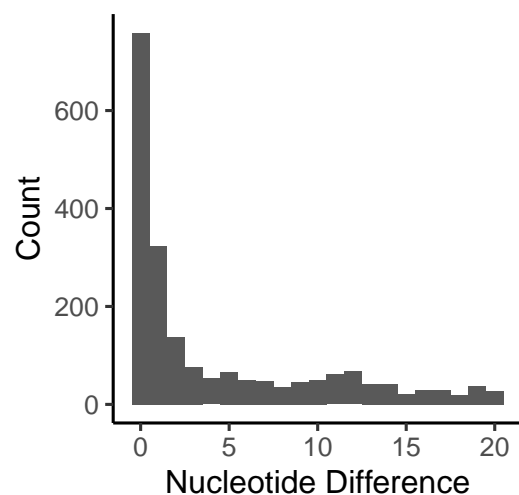
### IGHV1-69-2\*01

8 sequences assigned  
No exact matches.



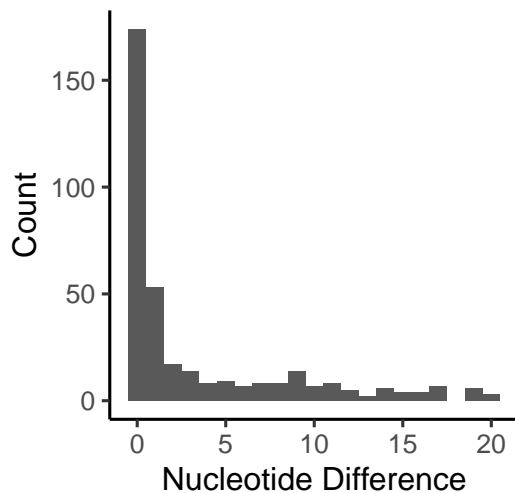
### IGHV2-5\*02

2196 sequences assigned  
759 (34.6%) exact matches, in which:  
758 unique CDR3  
7 unique J



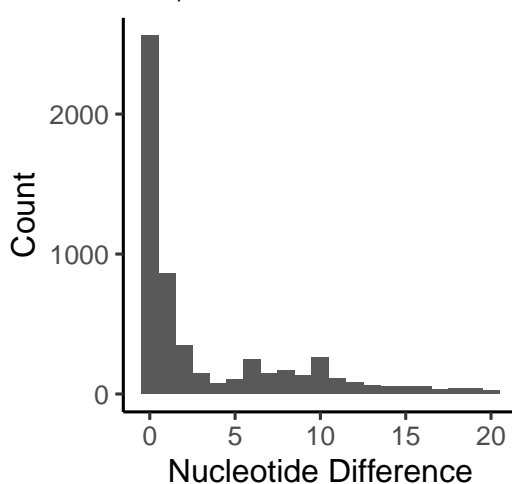
### IGHV1-58\*01\_03

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



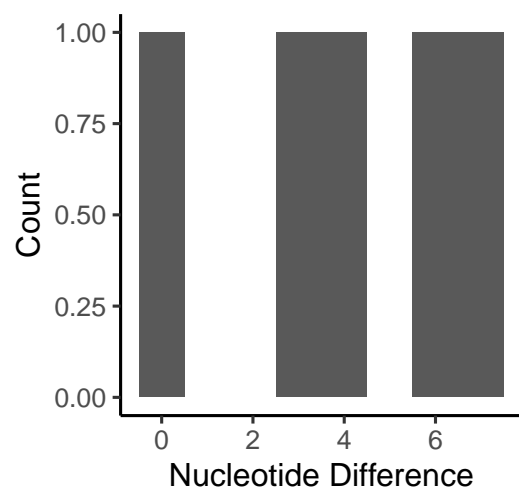
### IGHV1-69\*01\_12\_13

6073 sequences assigned  
2560 (42.2%) exact matches, in which:  
2542 unique CDR3  
7 unique J



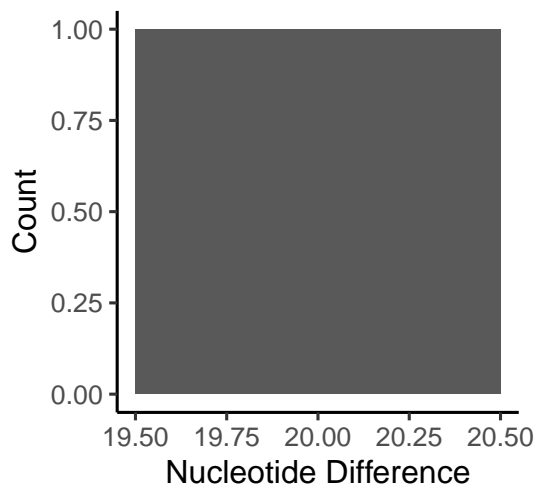
### IGHV2-26\*01

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



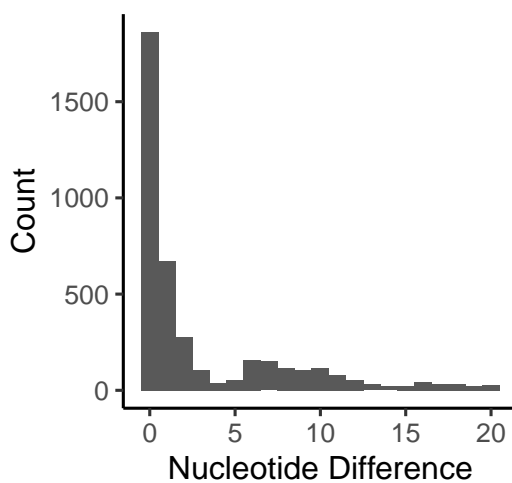
### IGHV1-68\*01

1 sequences assigned  
No exact matches.



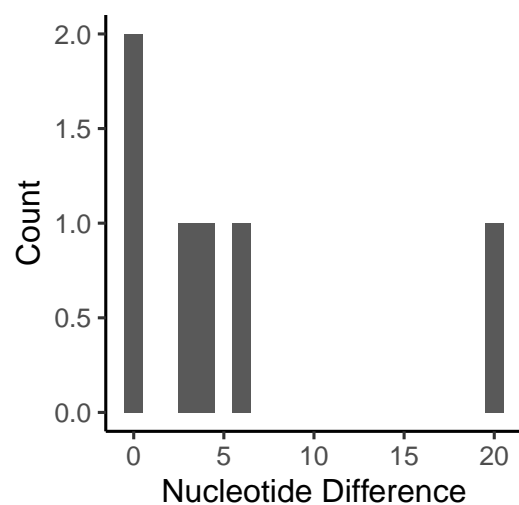
### IGHV1-69\*04\_09

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



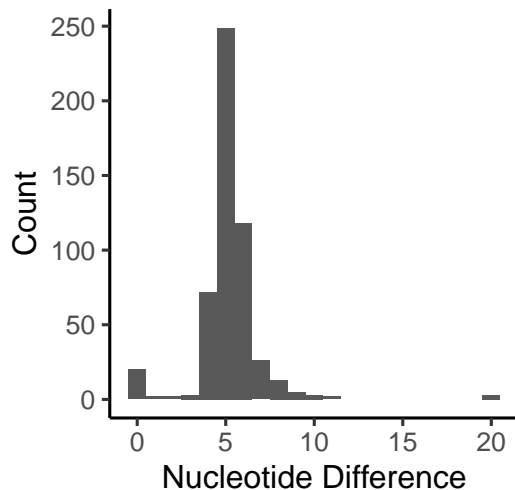
### IGHV2-26\*02

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



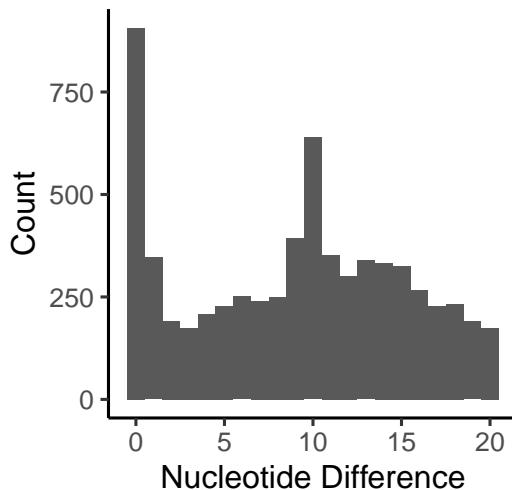
### IGHV2-26\*04

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



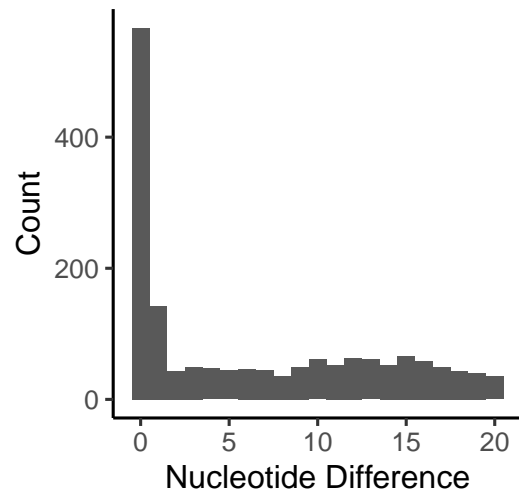
### IGHV3-7\*01

7464 sequences assigned  
907 (12.2%) exact matches, in which:  
864 unique CDR3  
7 unique J



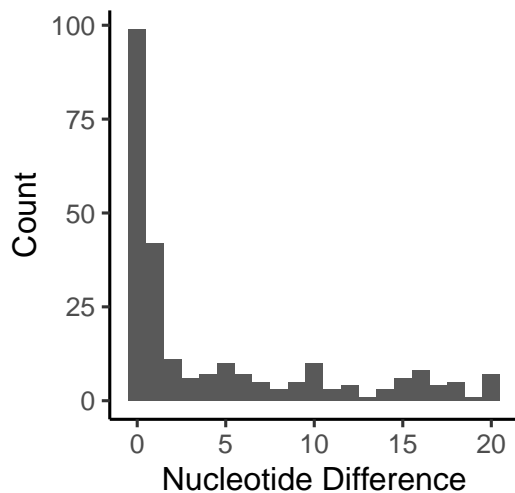
### IGHV3-11\*01

2268 sequences assigned  
567 (25%) exact matches, in which:  
541 unique CDR3  
7 unique J



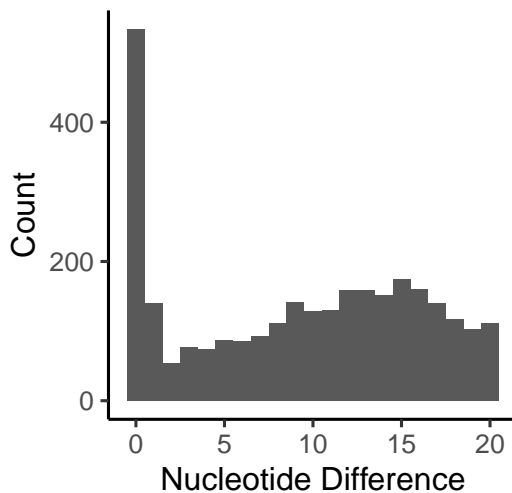
### IGHV2-70\*01

288 sequences assigned  
99 (34.4%) exact matches, in which:  
99 unique CDR3  
5 unique J



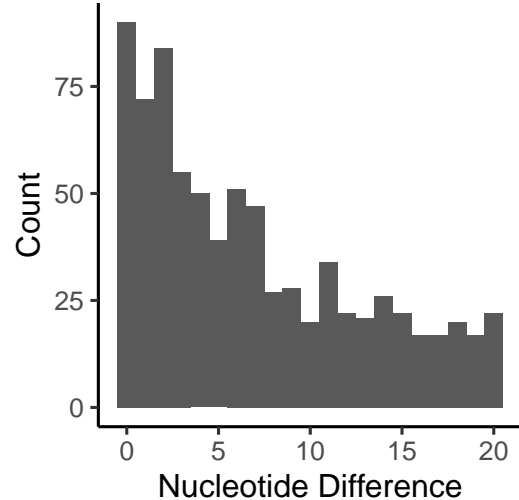
### IGHV3-7\*04

3612 sequences assigned  
534 (14.8%) exact matches, in which:  
507 unique CDR3  
7 unique J



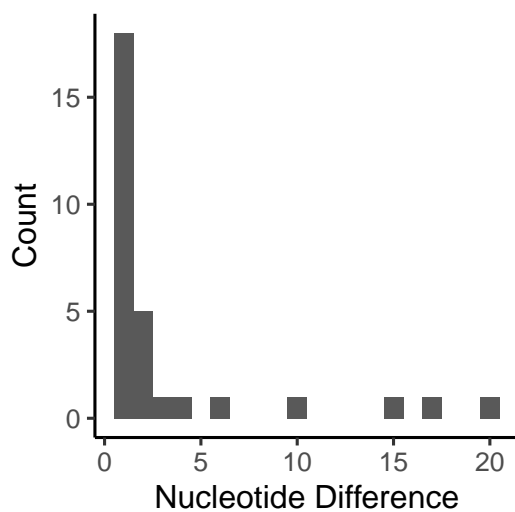
### IGHV3-11\*04

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



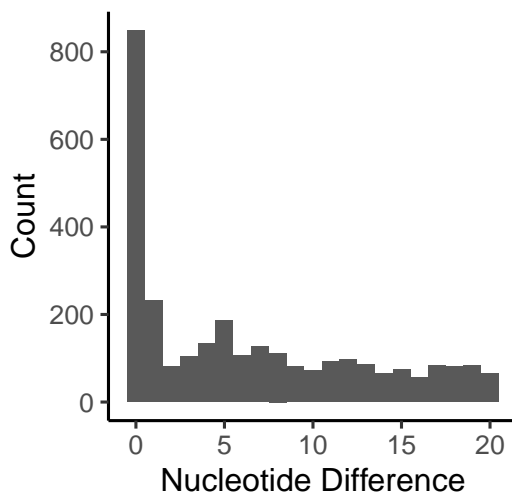
### IGHV2-70\*12

33 sequences assigned  
No exact matches.



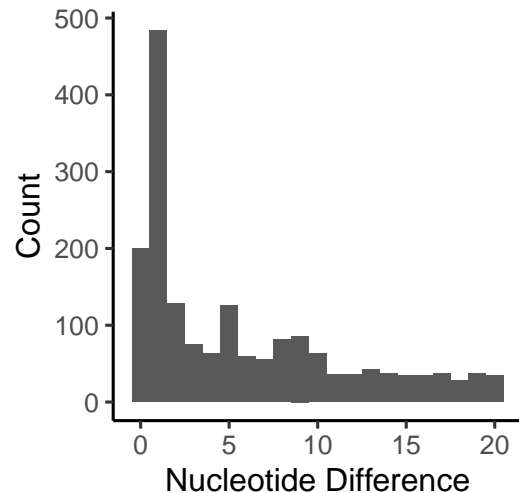
### IGHV3-9\*01

3470 sequences assigned  
849 (24.5%) exact matches, in which:  
797 unique CDR3  
7 unique J



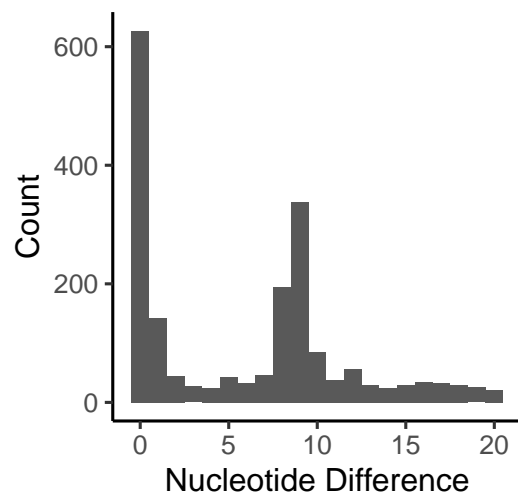
### IGHV3-11\*06

2100 sequences assigned  
200 (9.5%) exact matches, in which:  
200 unique CDR3  
7 unique J



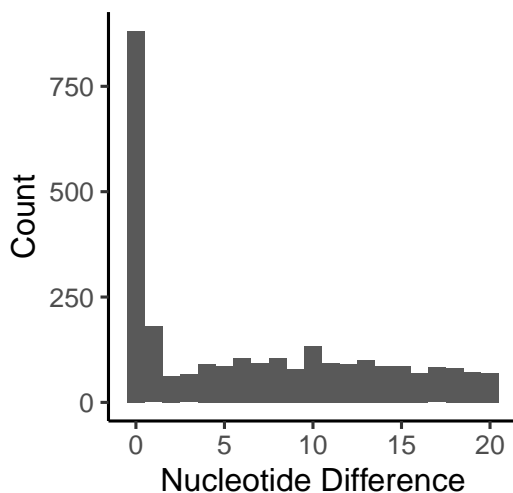
### IGHV3-11\*03\_05

2541 sequences assigned  
627 (24.7%) exact matches, in which:  
597 unique CDR3  
7 unique J



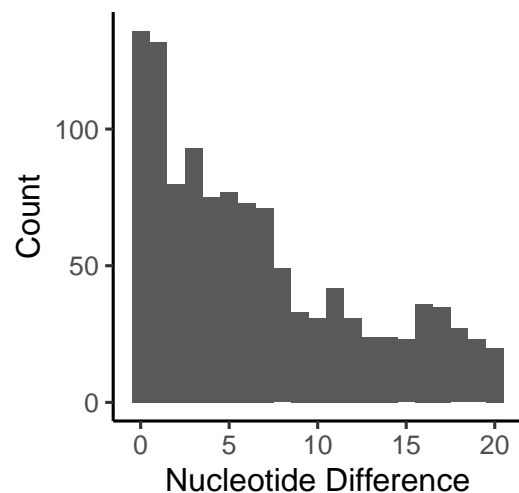
### IGHV3-15\*01\_02

3385 sequences assigned  
882 (26.1%) exact matches, in which:  
851 unique CDR3  
7 unique J



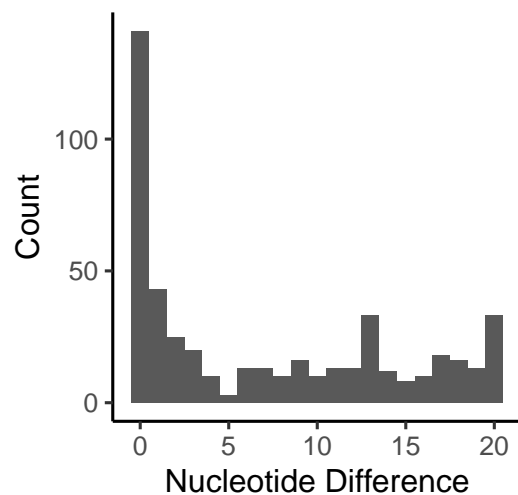
### IGHV3-21\*04

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



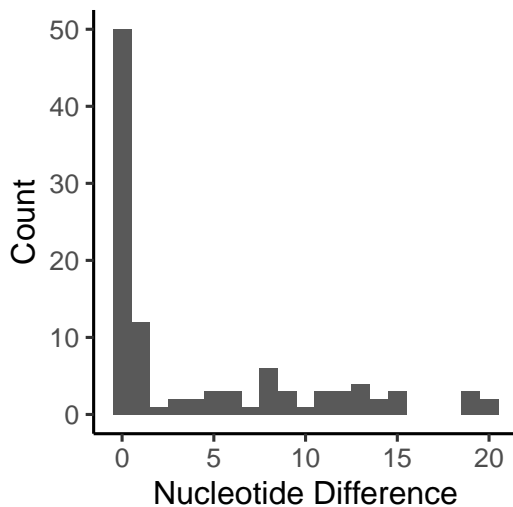
### IGHV3-13\*01

677 sequences assigned  
141 (20.8%) exact matches, in which:  
126 unique CDR3  
6 unique J



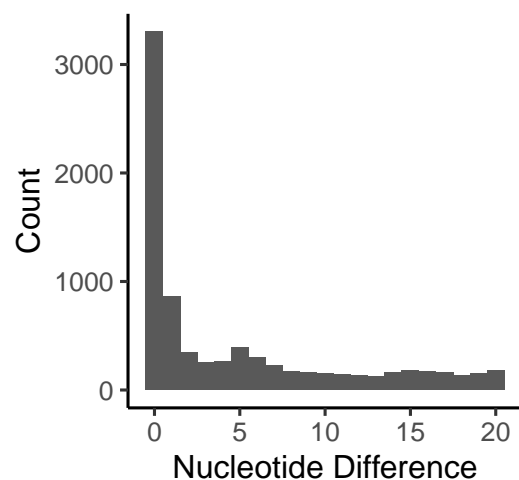
### IGHV3-20\*01\_02

125 sequences assigned  
50 (40%) exact matches, in which:  
47 unique CDR3  
5 unique J



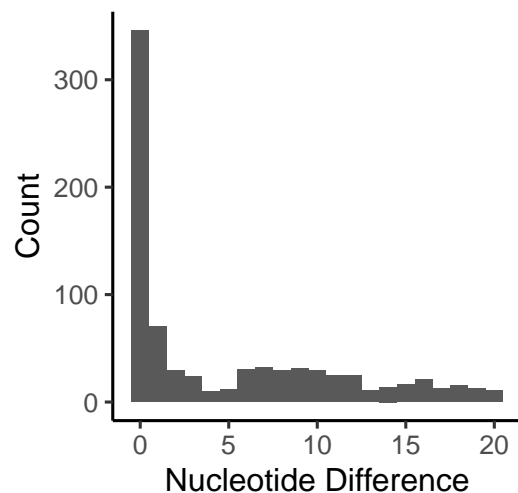
### IGHV3-21\*01\_02

9407 sequences assigned  
3302 (35.1%) exact matches, in which:  
3111 unique CDR3  
7 unique J



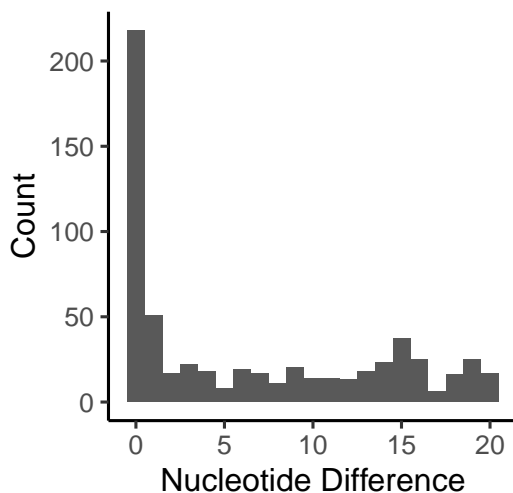
### IGHV3-13\*04

1343 sequences assigned  
346 (25.8%) exact matches, in which:  
327 unique CDR3  
6 unique J



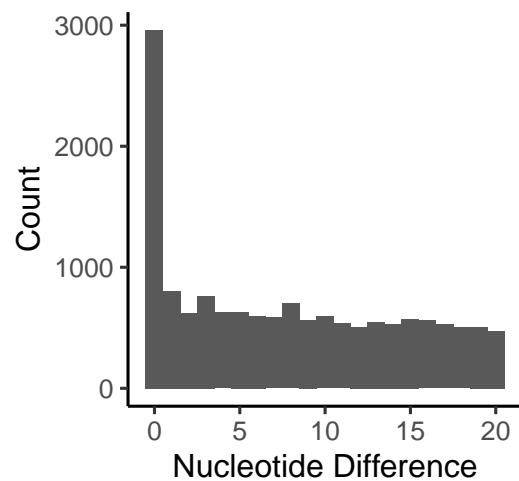
### IGHV3-20\*03\_04

746 sequences assigned  
218 (29.2%) exact matches, in which:  
209 unique CDR3  
7 unique J



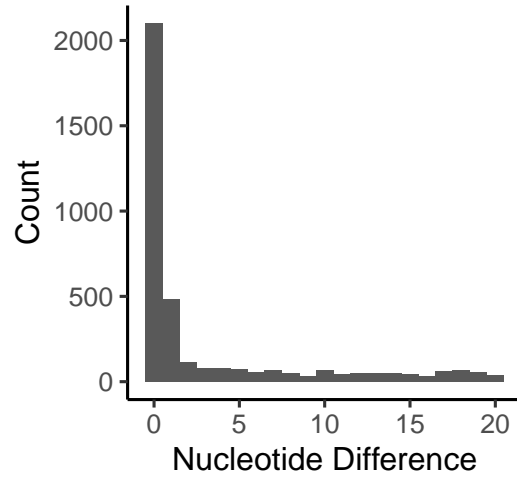
### IGHV3-23\*01\_04

19158 sequences assigned  
2960 (15.5%) exact matches, in which:  
2774 unique CDR3  
7 unique J



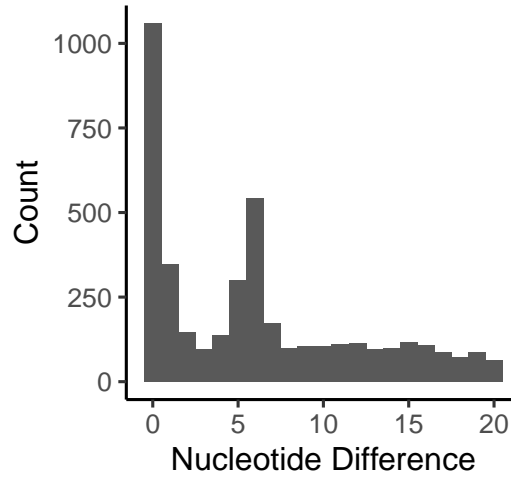
### IGHV3-30-3\*01

4218 sequences assigned  
2100 (49.8%) exact matches, in which:  
2012 unique CDR3  
7 unique J



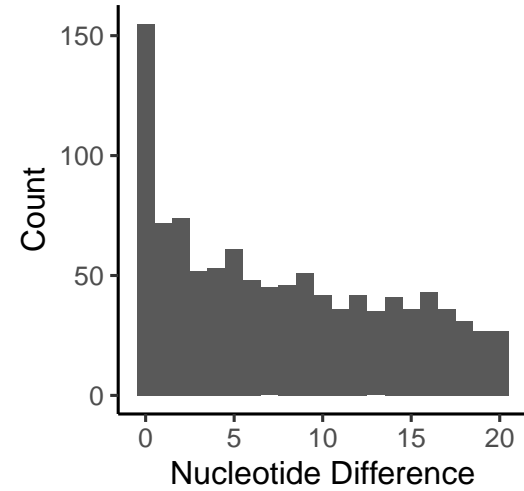
### IGHV3-33\*01

4398 sequences assigned  
1059 (24.1%) exact matches, in which:  
1020 unique CDR3  
7 unique J



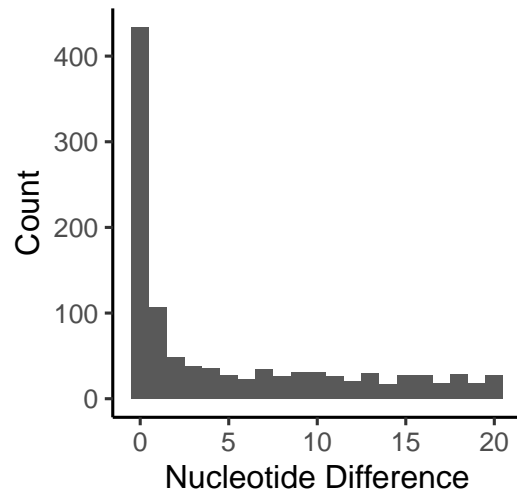
### IGHV3-33\*08

1207 sequences assigned  
155 (12.8%) exact matches, in which:  
154 unique CDR3  
7 unique J



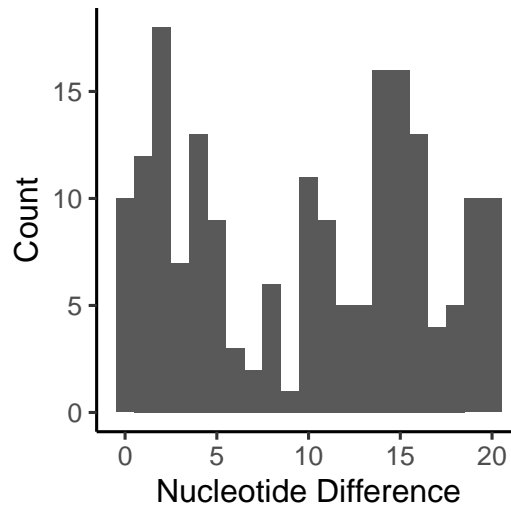
### IGHV3-30\*03

1335 sequences assigned  
434 (32.5%) exact matches, in which:  
429 unique CDR3  
7 unique J



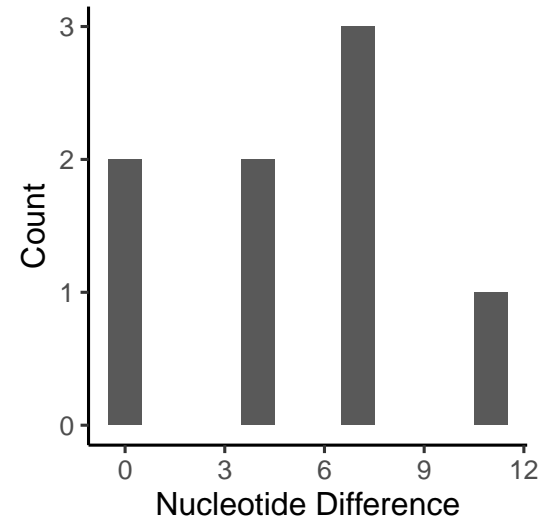
### IGHV3-33\*05

276 sequences assigned  
10 (3.6%) exact matches, in which:  
10 unique CDR3  
4 unique J



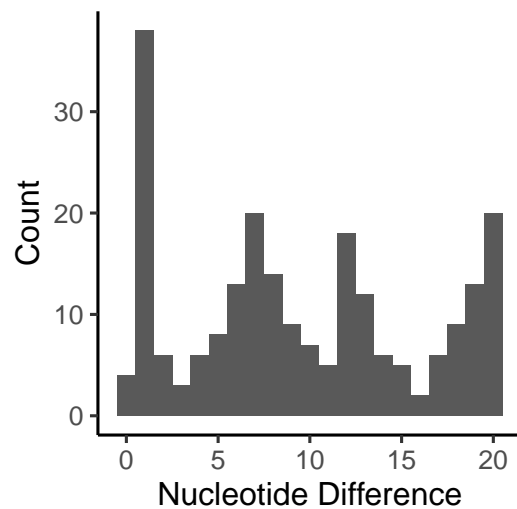
### IGHV3-35\*01

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



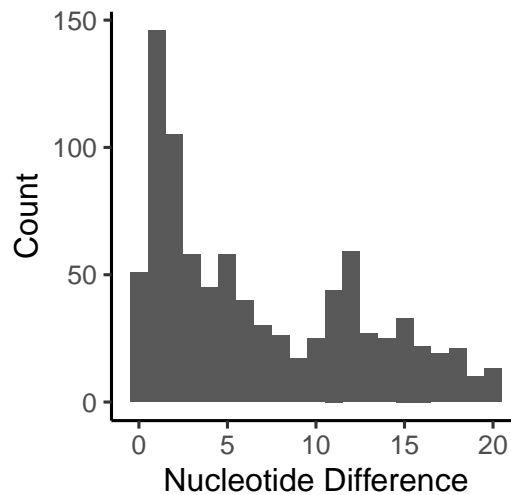
### IGHV3-30\*04

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



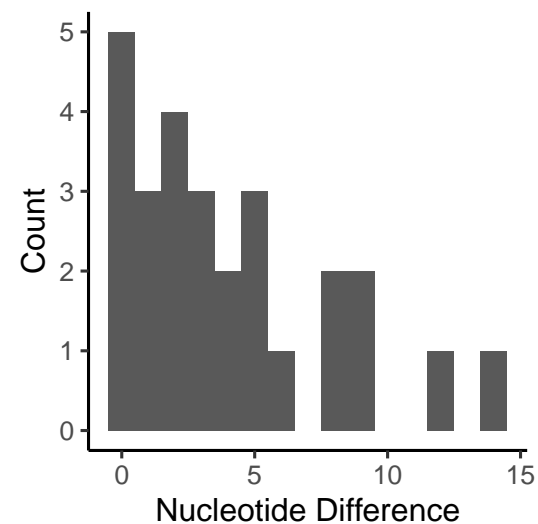
### IGHV3-33\*06

946 sequences assigned  
51 (5.4%) exact matches, in which:  
50 unique CDR3  
6 unique J



### IGHV3-38-3\*01

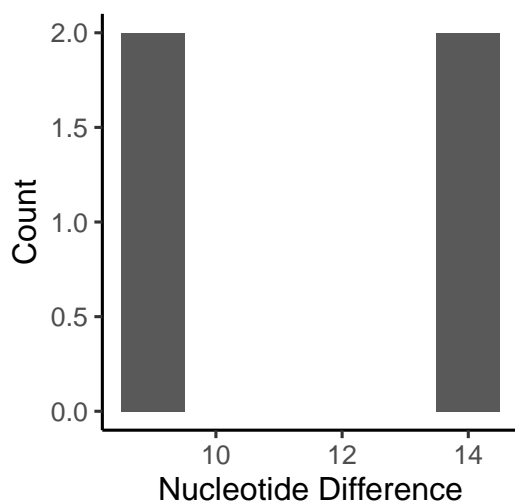
28 sequences assigned  
5 (17.9%) exact matches, in which:  
5 unique CDR3  
2 unique J





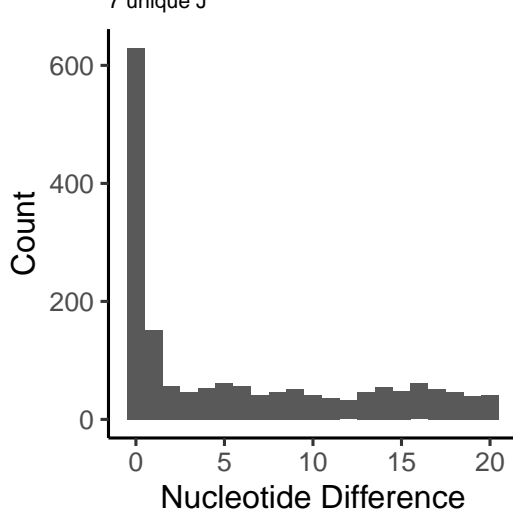
### IGHV3-38\*03

4 sequences assigned  
No exact matches.



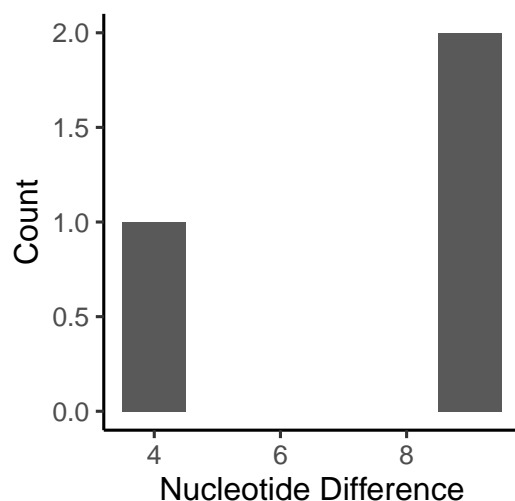
### IGHV3-48\*02

1994 sequences assigned  
630 (31.6%) exact matches, in which:  
593 unique CDR3  
7 unique J



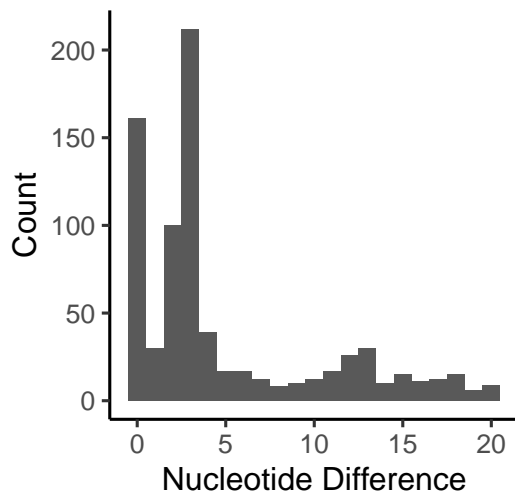
### IGHV3-52\*01\_03

3 sequences assigned  
No exact matches.



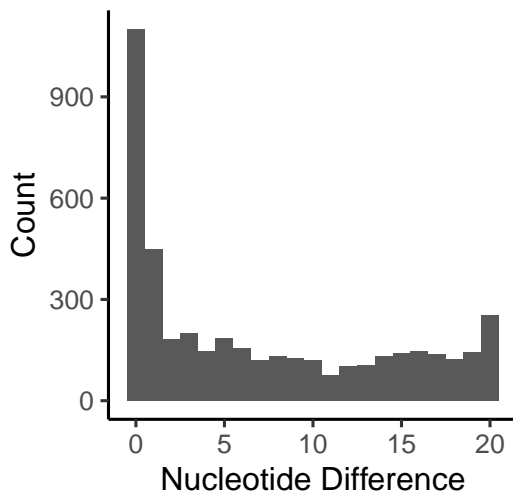
### IGHV3-43\*01

863 sequences assigned  
161 (18.7%) exact matches, in which:  
154 unique CDR3  
7 unique J



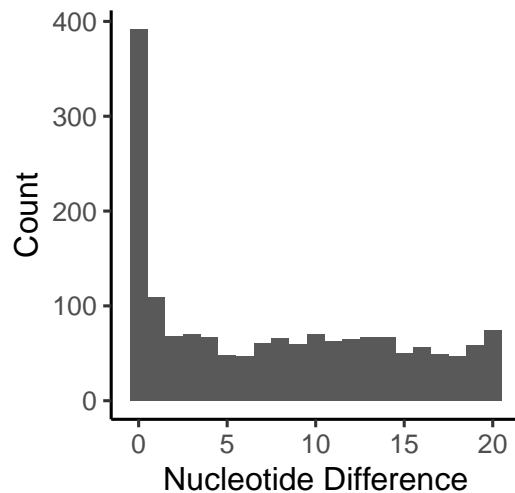
### IGHV3-48\*04

6725 sequences assigned  
1101 (16.4%) exact matches, in which:  
1055 unique CDR3  
7 unique J



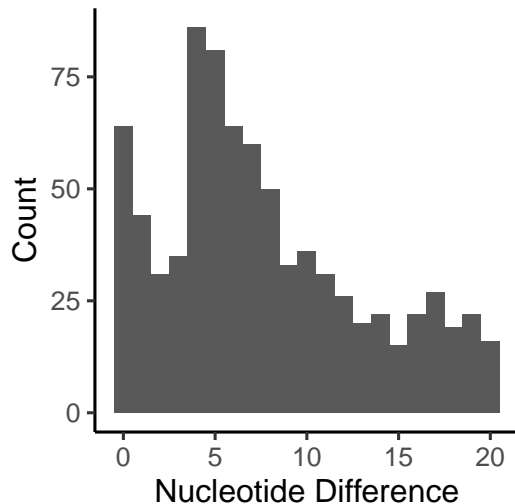
### IGHV3-53\*01\_02

2175 sequences assigned  
392 (18%) exact matches, in which:  
378 unique CDR3  
7 unique J



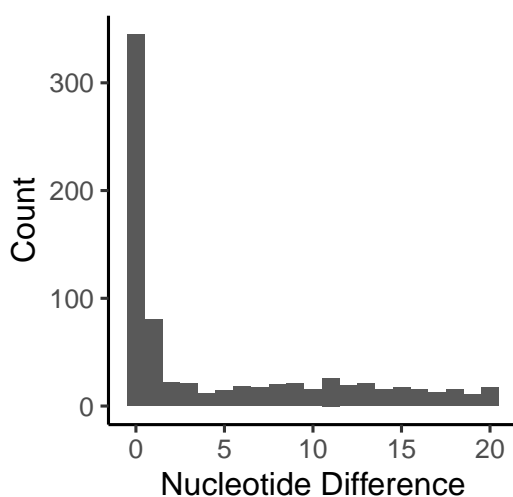
### IGHV3-48\*01

1000 sequences assigned  
64 (6.4%) exact matches, in which:  
64 unique CDR3  
6 unique J



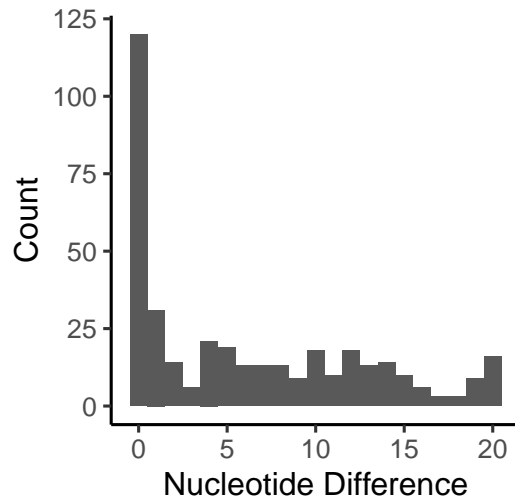
### IGHV3-49\*03\_05

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



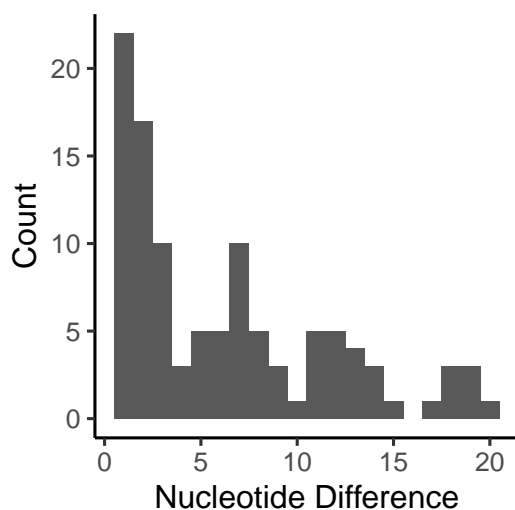
### IGHV3-64\*01

512 sequences assigned  
120 (23.4%) exact matches, in which:  
113 unique CDR3  
6 unique J



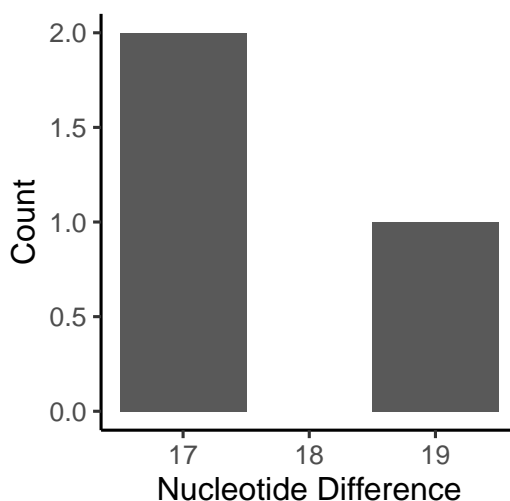
### IGHV3-64\*04

119 sequences assigned  
No exact matches.



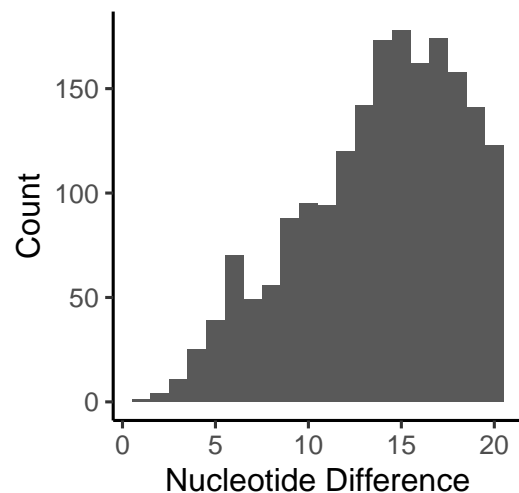
### IGHV3-69-1\*02

71 sequences assigned  
No exact matches.



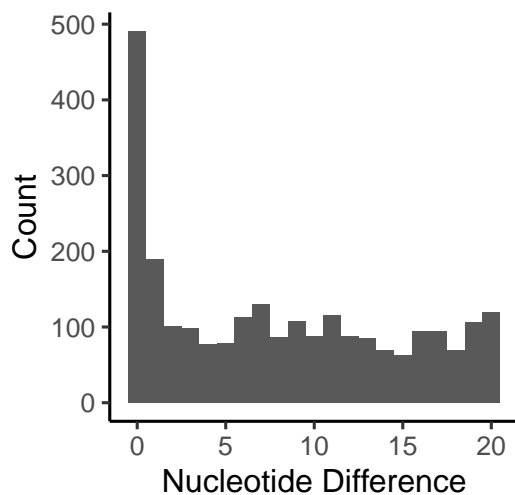
### IGHV3-74\*03

2736 sequences assigned  
No exact matches.



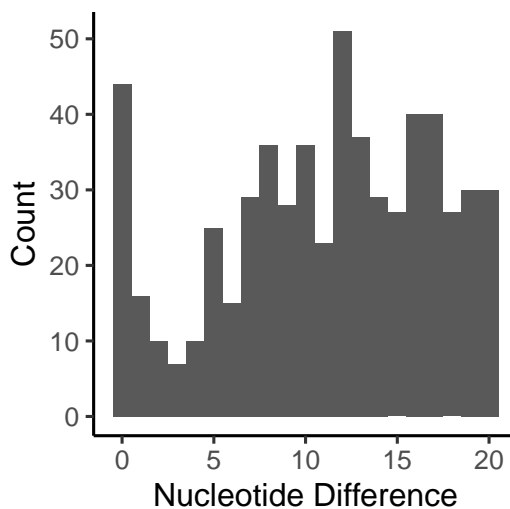
### IGHV3-66\*01

3537 sequences assigned  
491 (13.9%) exact matches, in which:  
468 unique CDR3  
7 unique J



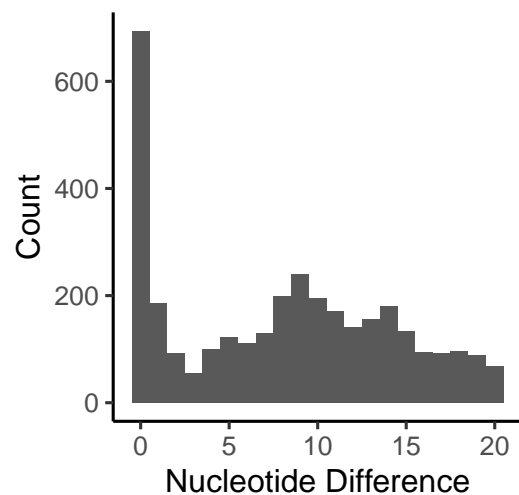
### IGHV3-72\*01

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



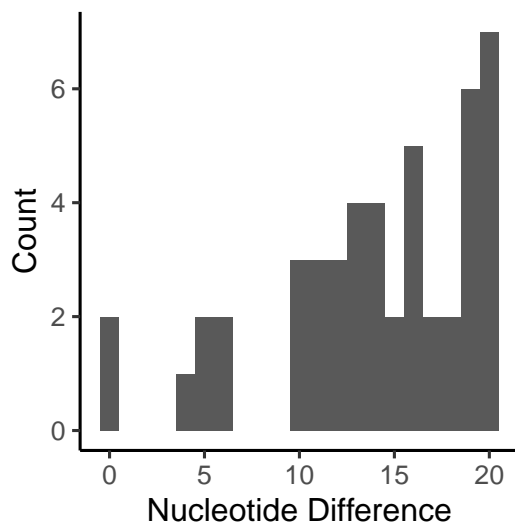
### IGHV3-74\*01\_02

3815 sequences assigned  
694 (18.2%) exact matches, in which:  
650 unique CDR3  
7 unique J



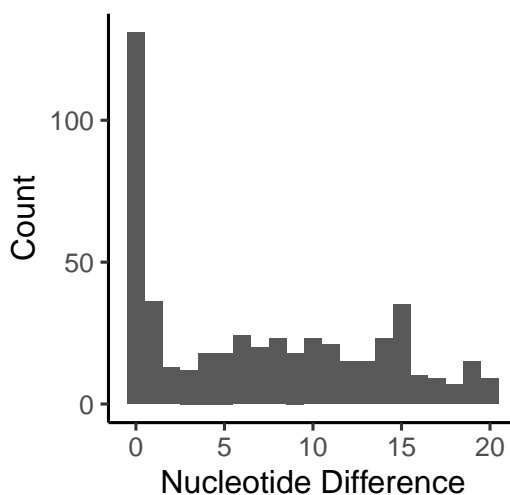
### IGHV3-69-1\*01

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



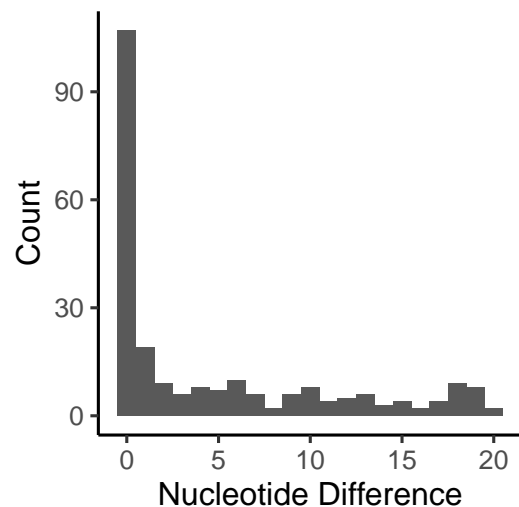
### IGHV3-73\*01\_02

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



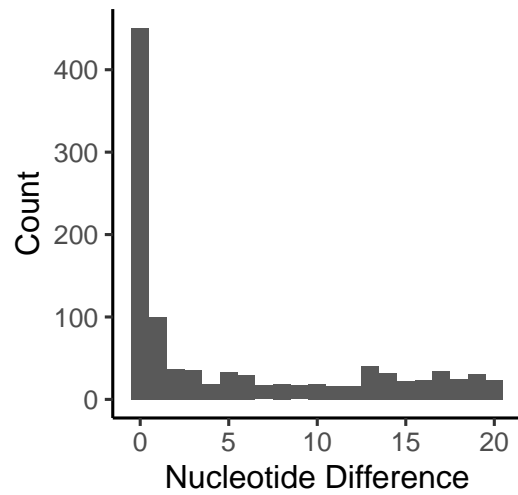
### IGHV3-43D\*03

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



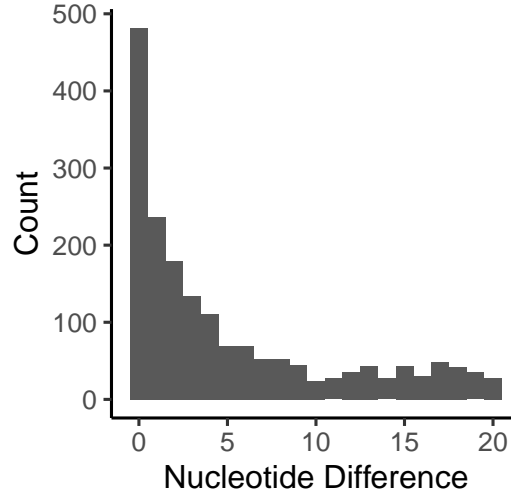
### IGHV3-64D\*06

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



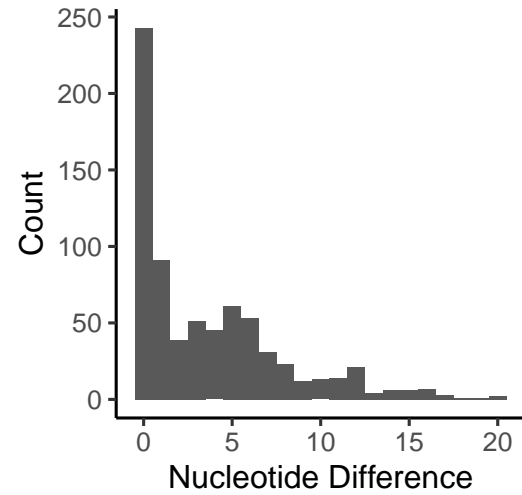
### IGHV4-4\*02\_03

2324 sequences assigned  
482 (20.7%) exact matches, in which:  
480 unique CDR3  
7 unique J



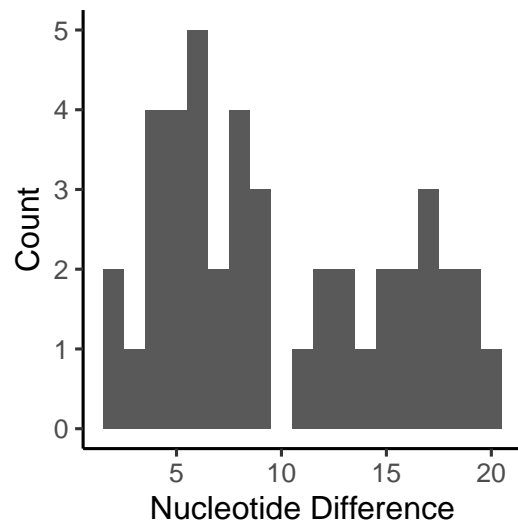
### IGHV4-30-2\*01

784 sequences assigned  
243 (31%) exact matches, in which:  
239 unique CDR3  
7 unique J



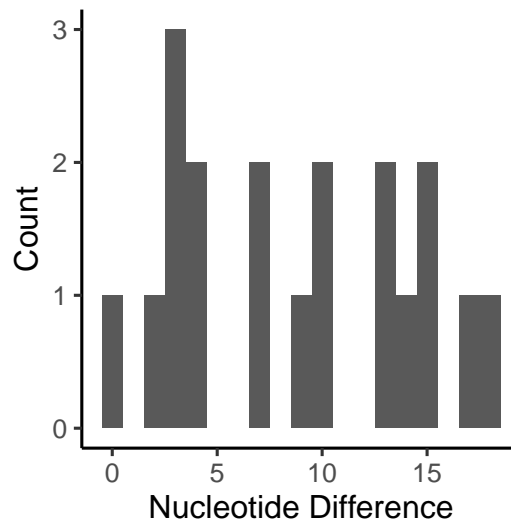
### IGHV3-NL1\*01

76 sequences assigned  
No exact matches.



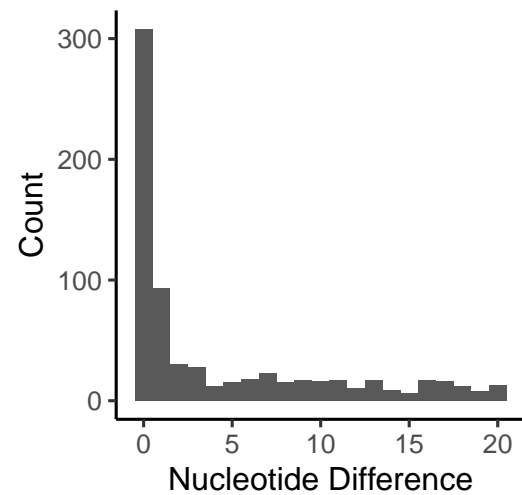
### IGHV4-28\*03

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



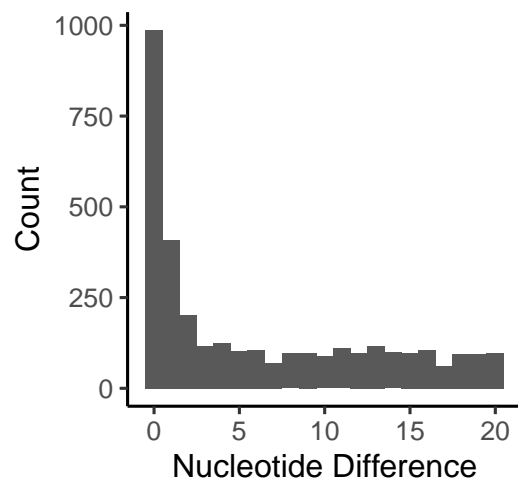
### IGHV4-30-4\*01

889 sequences assigned  
308 (34.6%) exact matches, in which:  
306 unique CDR3  
7 unique J



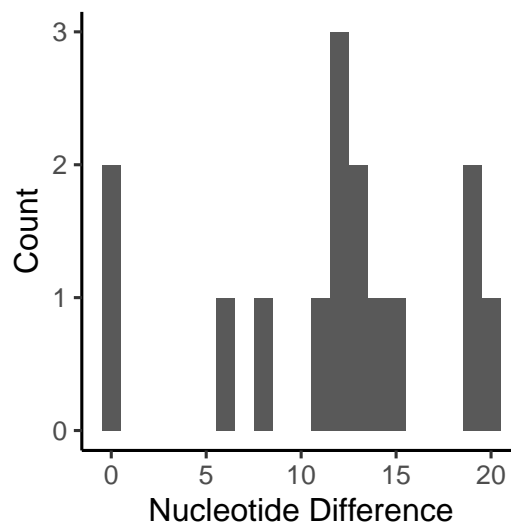
### IGHV4-4\*07

4089 sequences assigned  
987 (24.1%) exact matches, in which:  
968 unique CDR3  
7 unique J



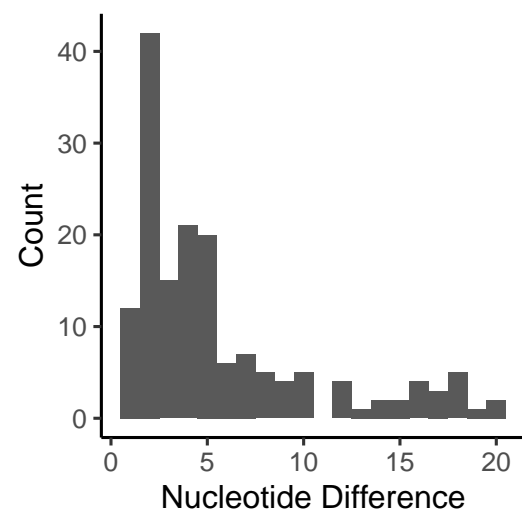
### IGHV4-28\*01\_07

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



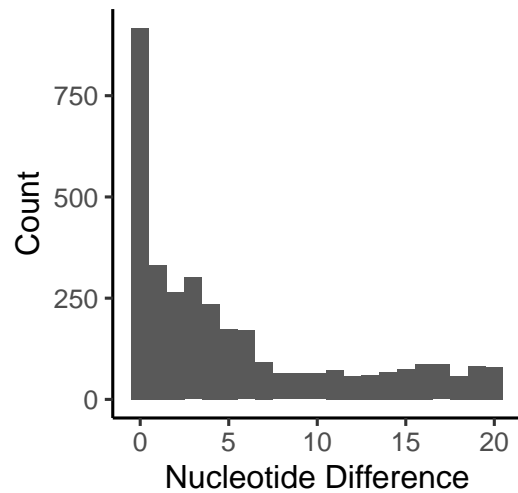
### IGHV4-30-4\*08

190 sequences assigned  
No exact matches.



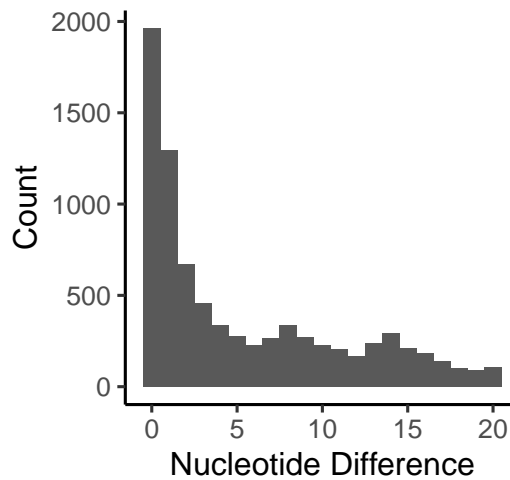
### IGHV4-31\*02

4405 sequences assigned  
918 (20.8%) exact matches, in which:  
913 unique CDR3  
7 unique J



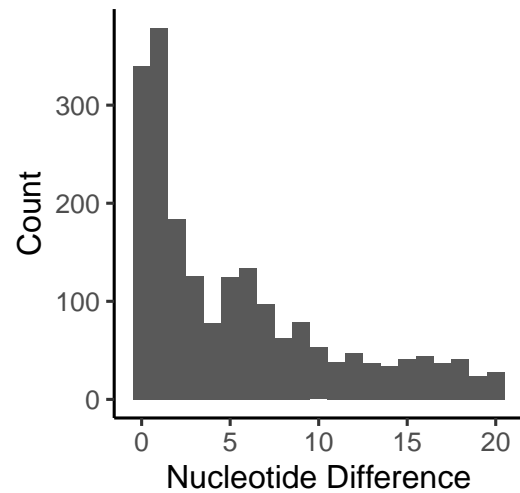
### IGHV4-39\*07

9534 sequences assigned  
1962 (20.6%) exact matches, in which:  
1928 unique CDR3  
7 unique J



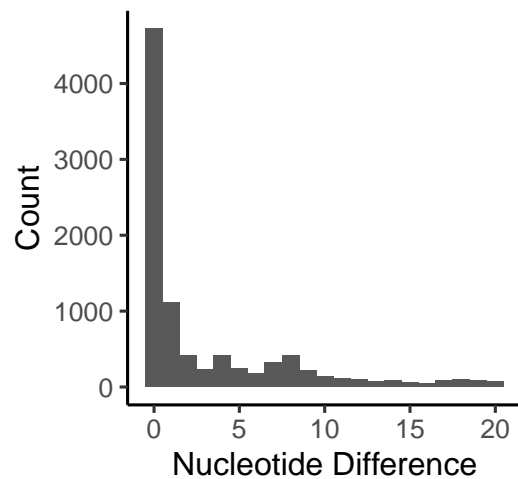
### IGHV4-59\*12

2279 sequences assigned  
340 (14.9%) exact matches, in which:  
338 unique CDR3  
7 unique J



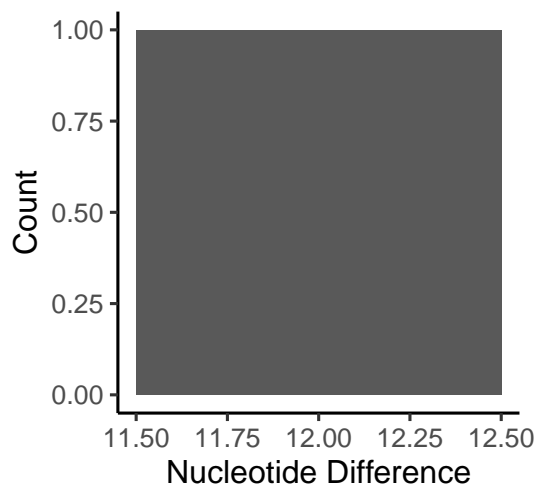
### IGHV4-34\*01\_02

10093 sequences assigned  
4722 (46.8%) exact matches, in which:  
4655 unique CDR3  
7 unique J



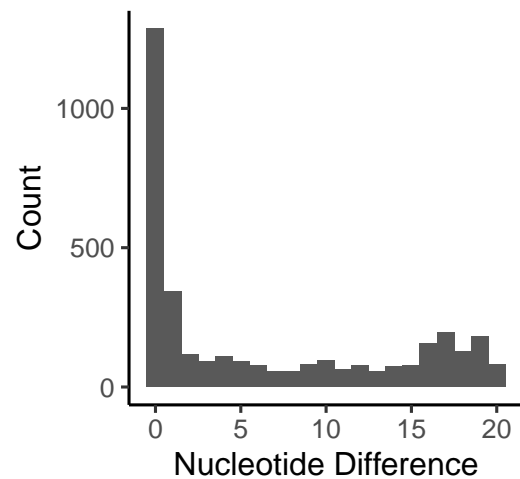
### IGHV4-55\*07

1 sequences assigned  
No exact matches.



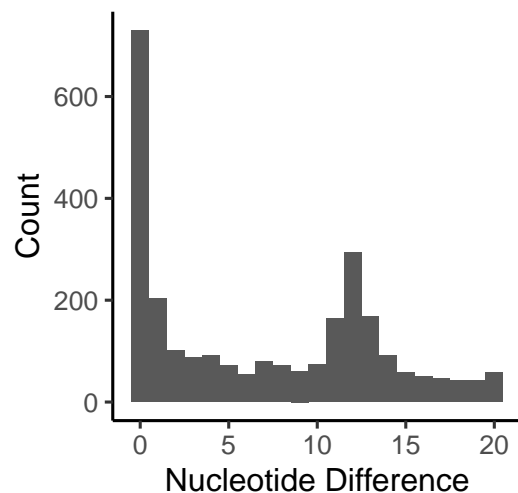
### IGHV4-59\*13

4324 sequences assigned  
1286 (29.7%) exact matches, in which:  
1276 unique CDR3  
7 unique J



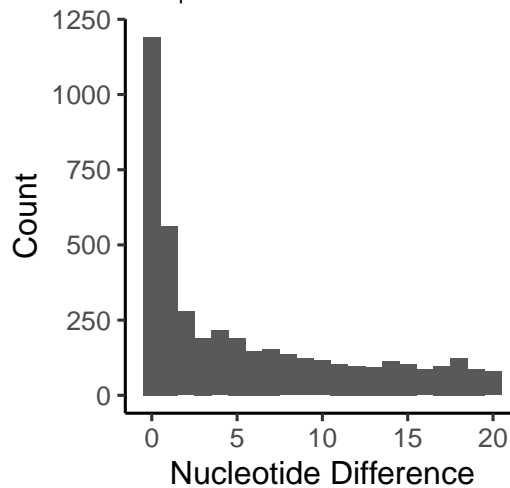
### IGHV4-38-2\*02

3105 sequences assigned  
730 (23.5%) exact matches, in which:  
727 unique CDR3  
7 unique J



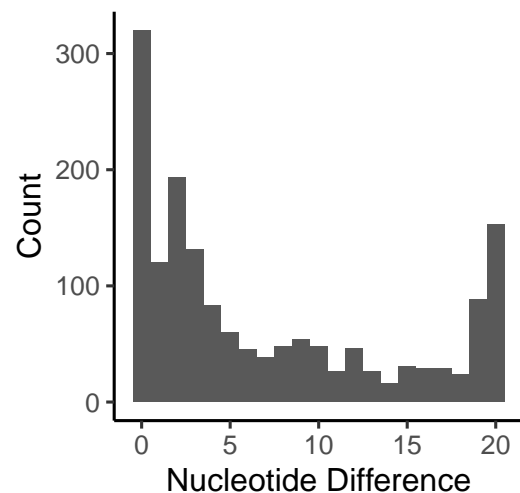
### IGHV4-59\*08

5116 sequences assigned  
1191 (23.3%) exact matches, in which:  
1177 unique CDR3  
7 unique J



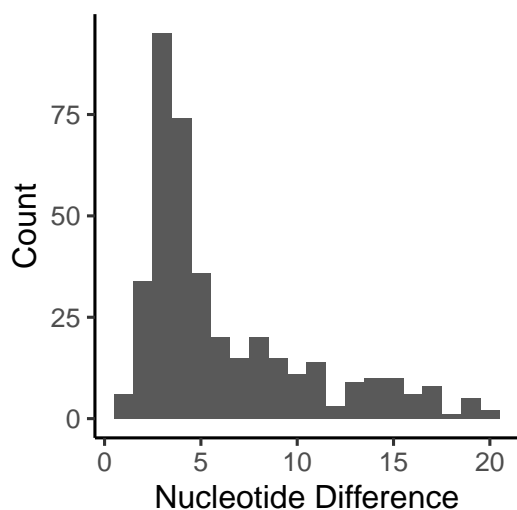
### IGHV4-61\*01

2045 sequences assigned  
320 (15.6%) exact matches, in which:  
320 unique CDR3  
7 unique J



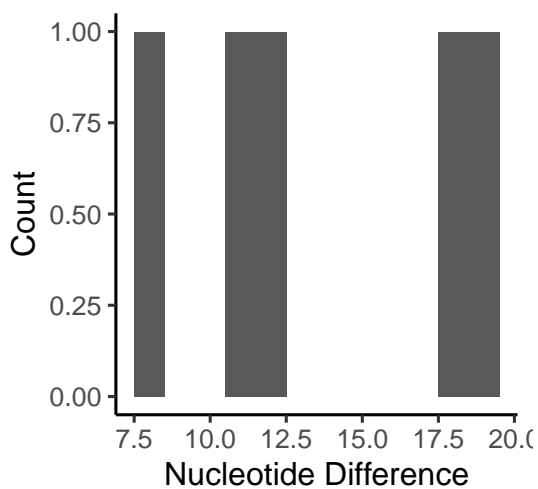
### IGHV4-61\*05

434 sequences assigned  
No exact matches.



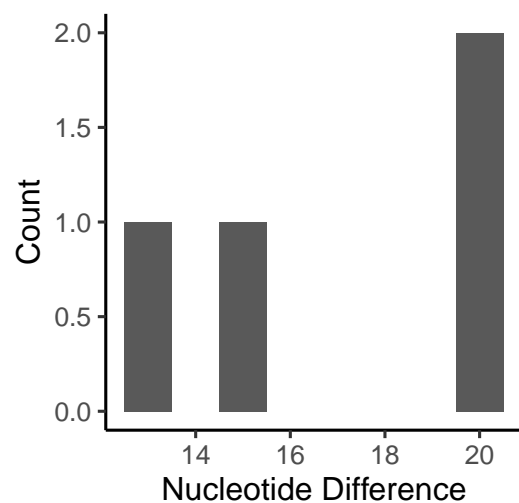
### IGHV1/OR15-3\*02

5 sequences assigned  
No exact matches.



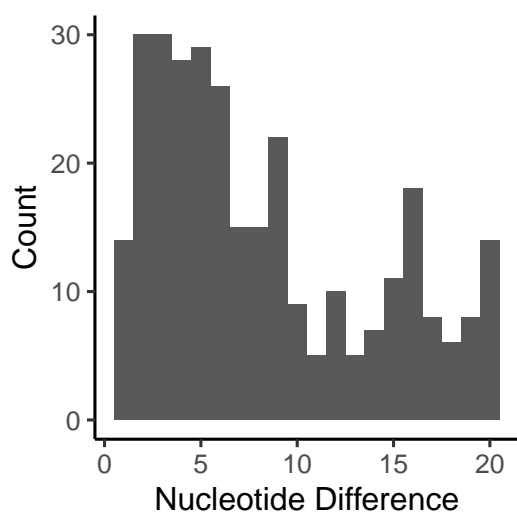
### IGHV4/OR15-8\*02

36 sequences assigned  
No exact matches.



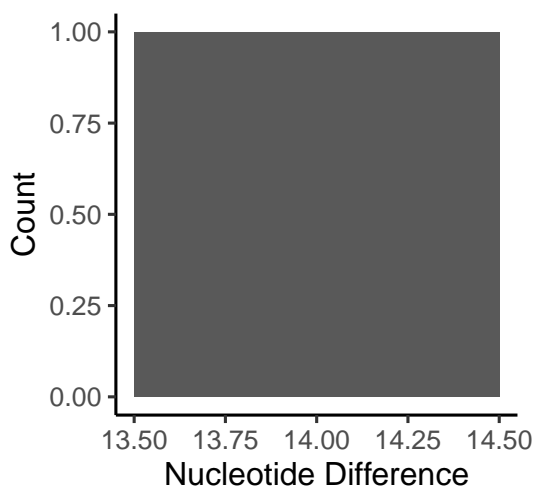
### IGHV4-61\*08

400 sequences assigned  
No exact matches.



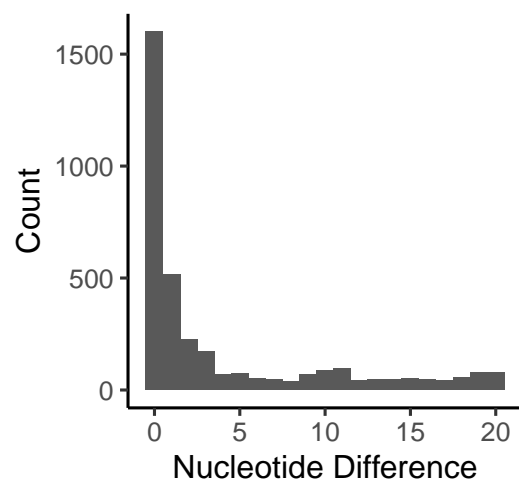
### IGHV1/OR15-4\*01

1 sequences assigned  
No exact matches.



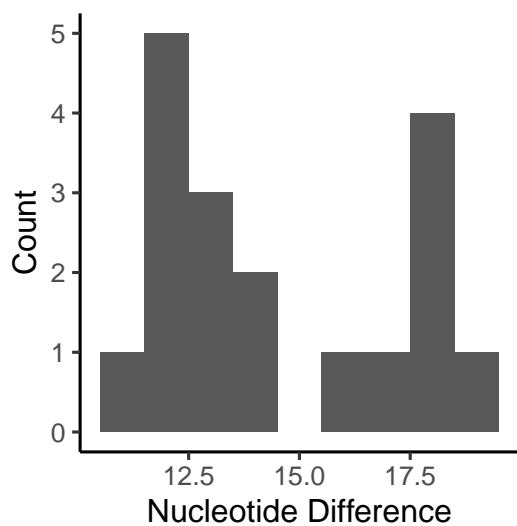
### IGHV5-10-1\*01\_03

3967 sequences assigned  
1600 (40.3%) exact matches, in which:  
1548 unique CDR3  
7 unique J



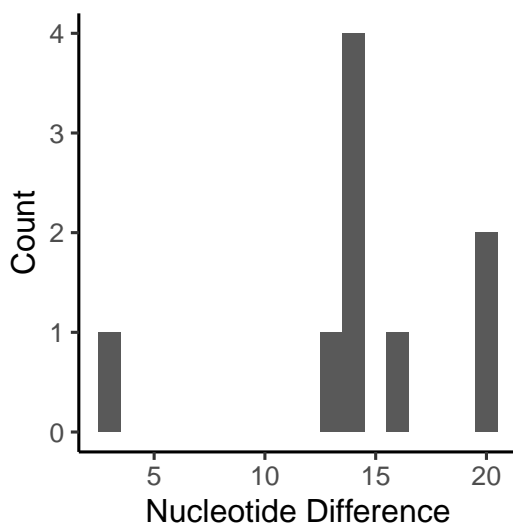
### IGHV1/OR15-2\*02\_03

26 sequences assigned  
No exact matches.



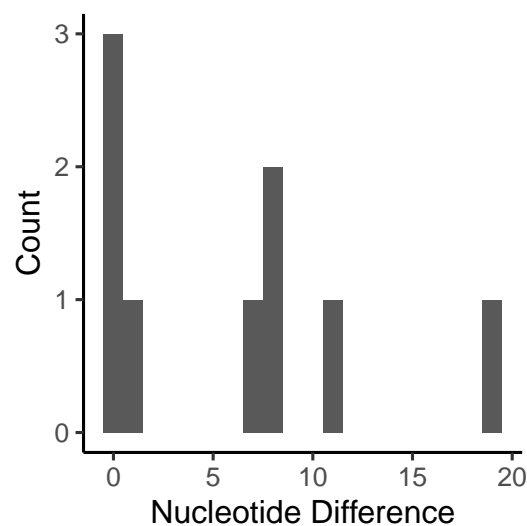
### IGHV4/OR15-8\*01

37 sequences assigned  
No exact matches.



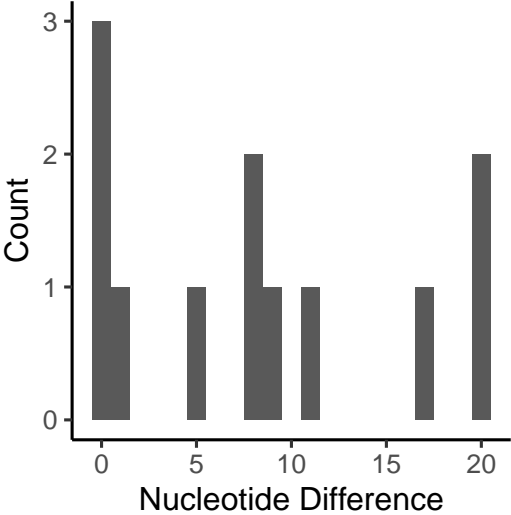
### IGHV5-51\*04

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



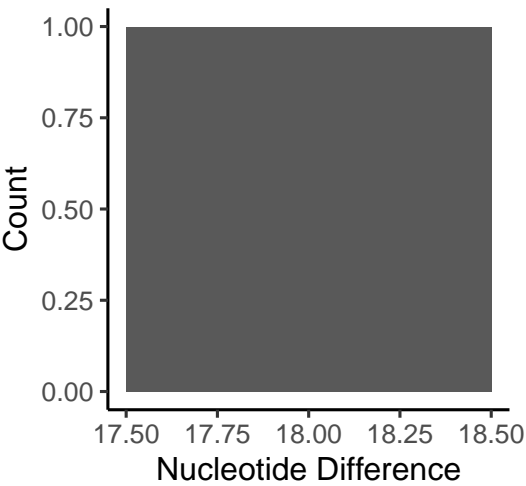
IGHV5–51\*06

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



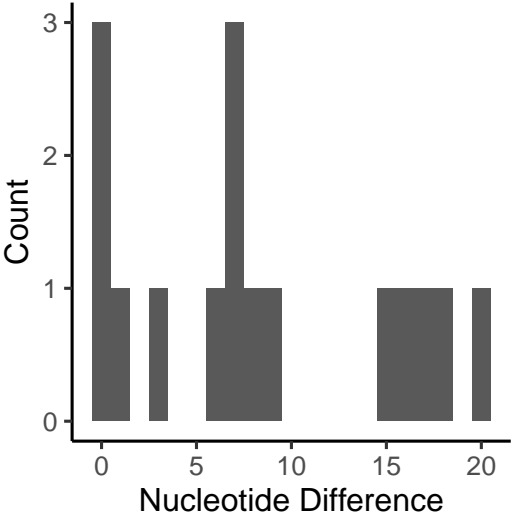
IGHV3/OR16–13\*01

1 sequences assigned  
No exact matches.



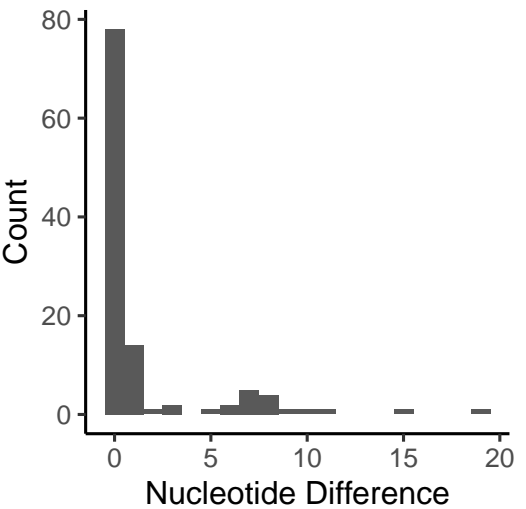
IGHV5–51\*07

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



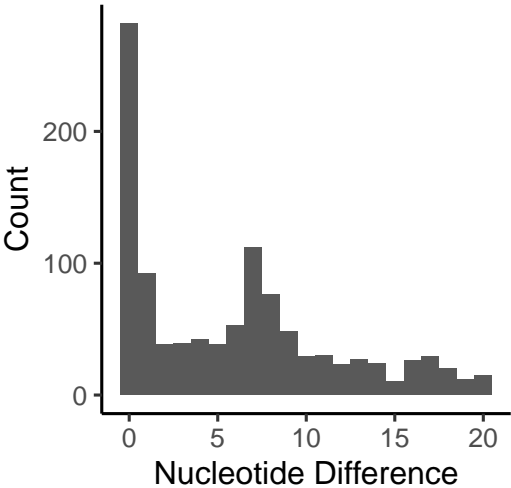
IGHV7–4–1\*01\_T63C

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

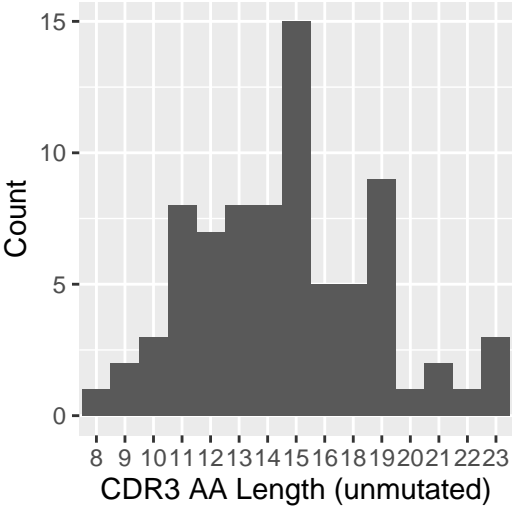


IGHV6–1\*01\_02

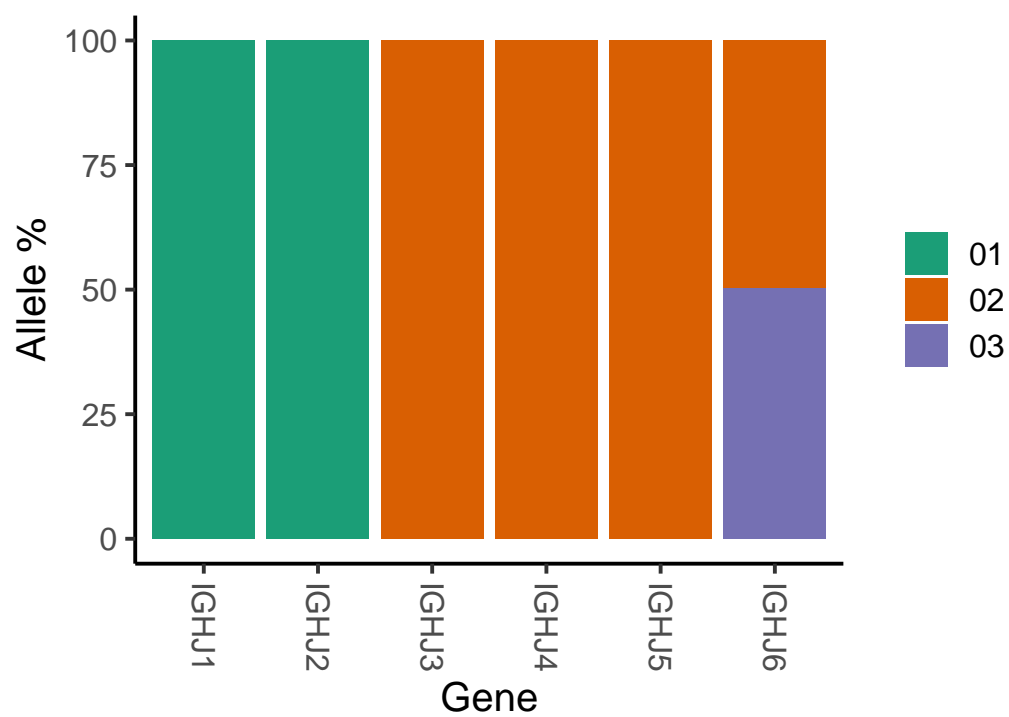
1182 sequences assigned  
282 (23.9%) exact matches, in which:  
279 unique CDR3  
7 unique J



IGHV7-4-1\*01\_T63C

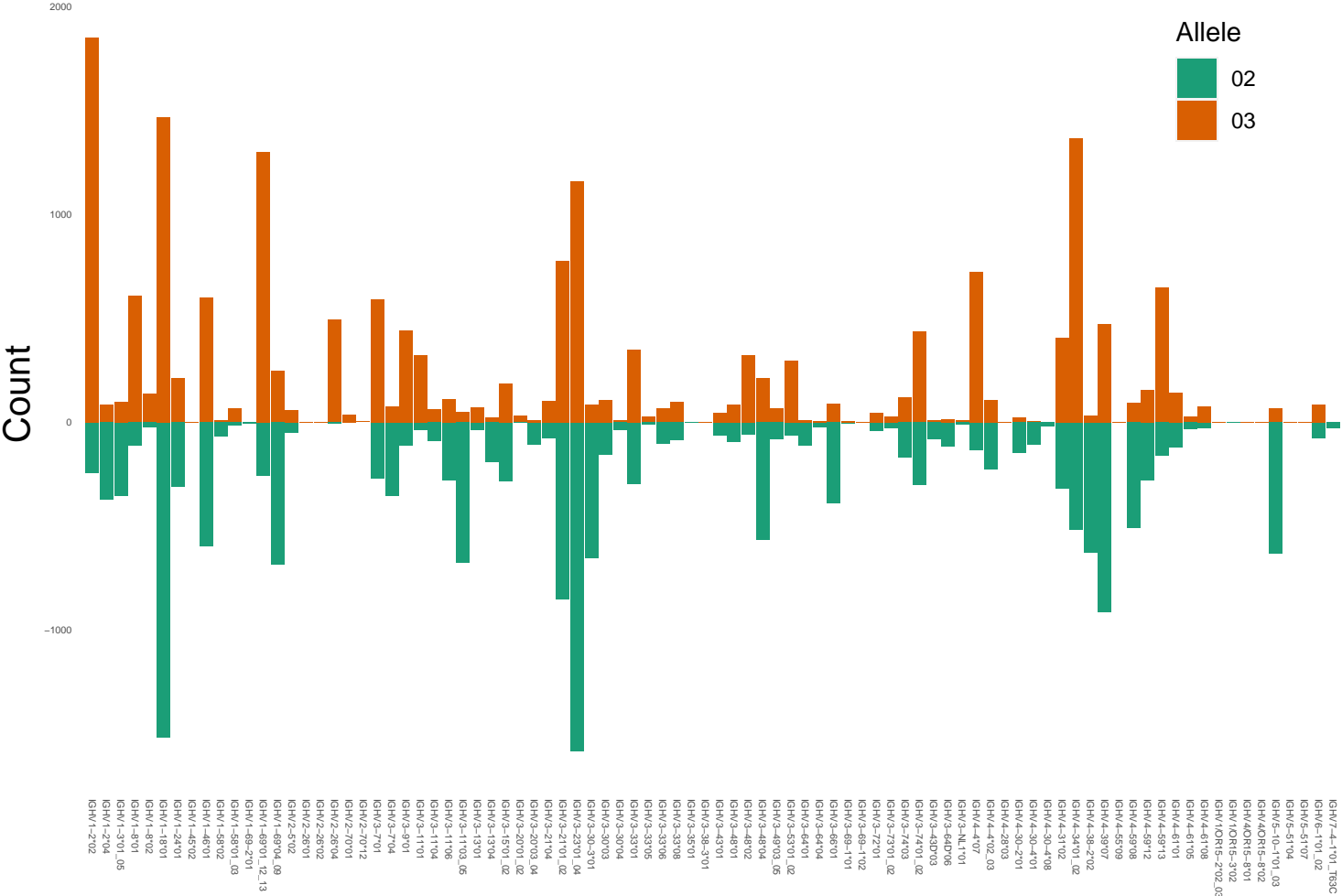


Allele Usage





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.