

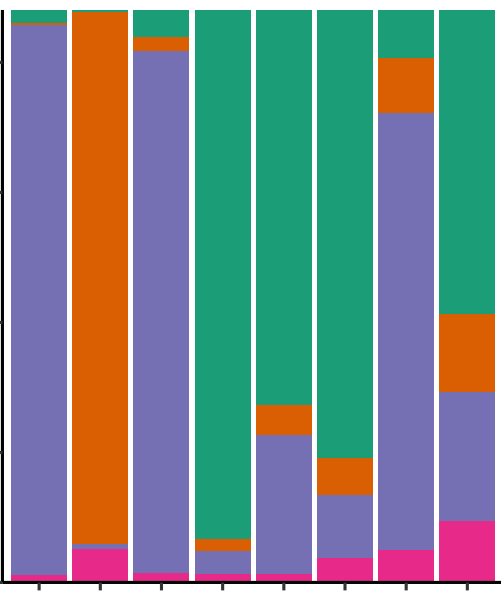
Gene IGHV3-30\*02\_T201C

Count

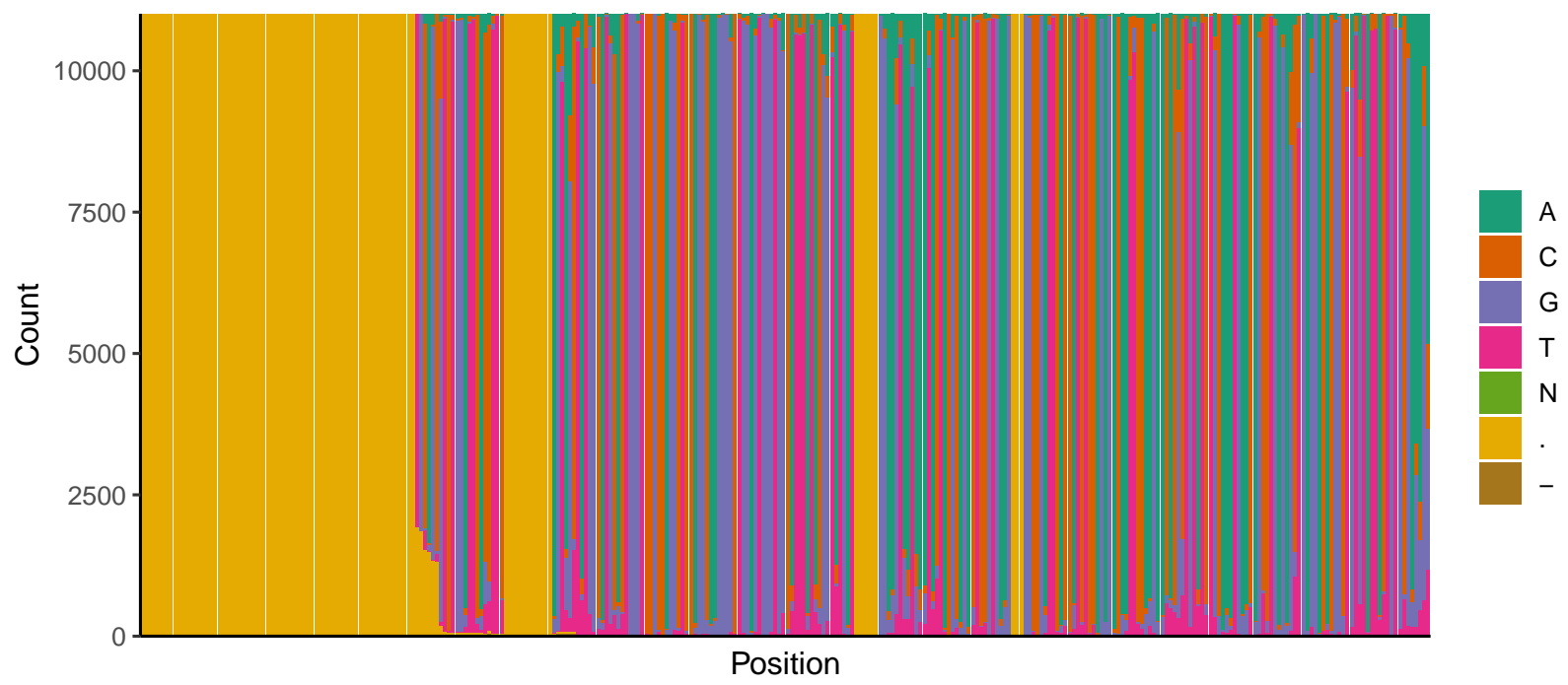
10000  
7500  
5000  
2500  
0



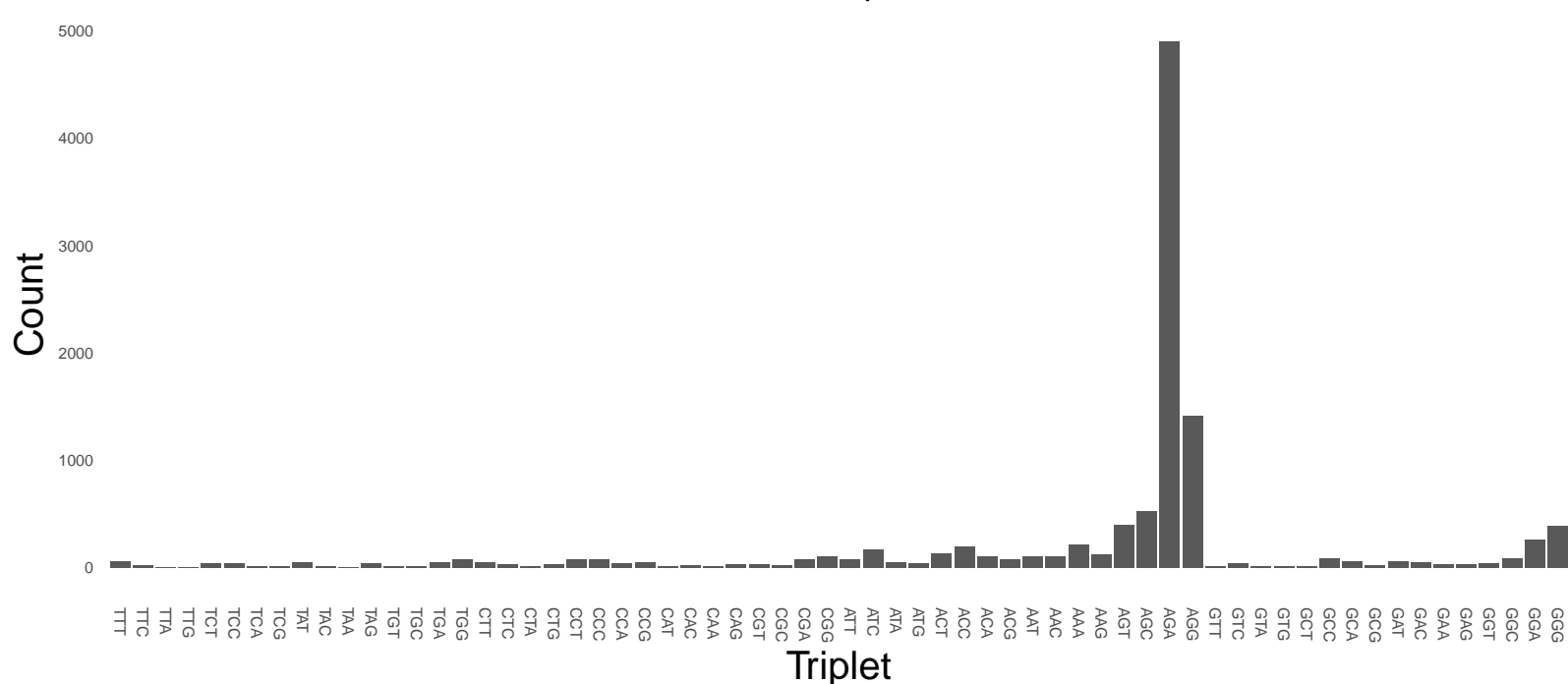
315  
320  
G C G A A A G A  
Position



Gene IGHV3-30\*02\_T201C

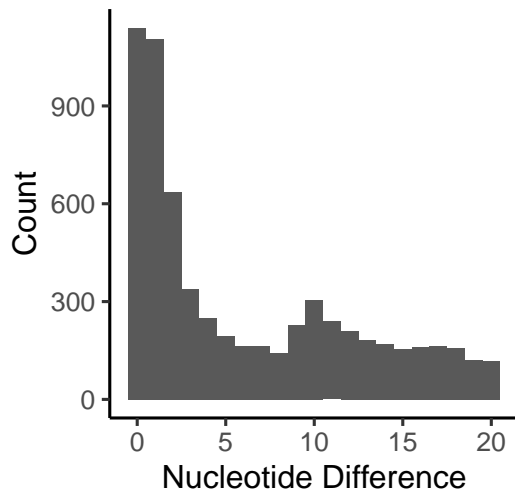


IGHV3-30\*02\_T201C- Final 3 nucleotides as a triplet



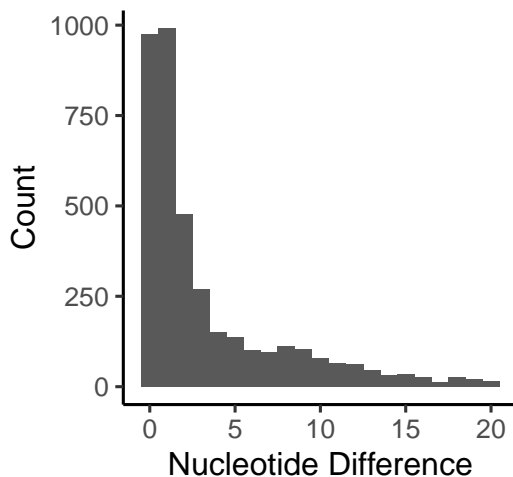
### IGHV1-2\*02

7119 sequences assigned  
1140 (16%) exact matches, in which:  
915 unique CDR3  
6 unique J



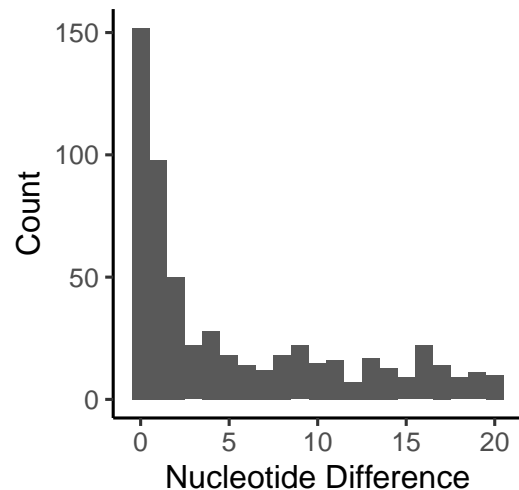
### IGHV1-8\*01

3998 sequences assigned  
975 (24.4%) exact matches, in which:  
781 unique CDR3  
6 unique J



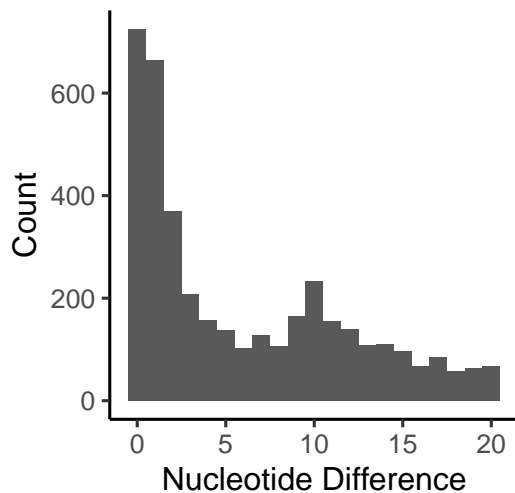
### IGHV1-24\*01

650 sequences assigned  
152 (23.4%) exact matches, in which:  
138 unique CDR3  
6 unique J



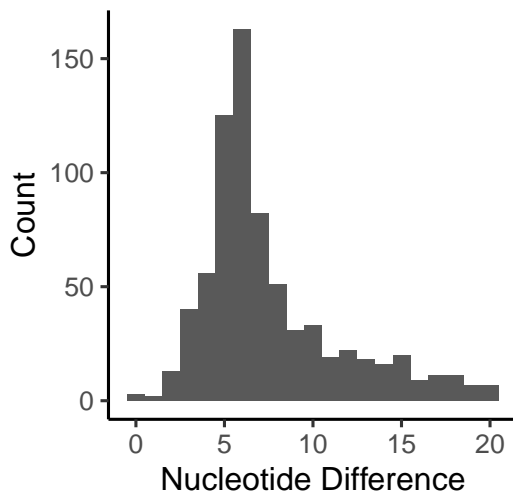
### IGHV1-2\*06

4485 sequences assigned  
725 (16.2%) exact matches, in which:  
610 unique CDR3  
6 unique J



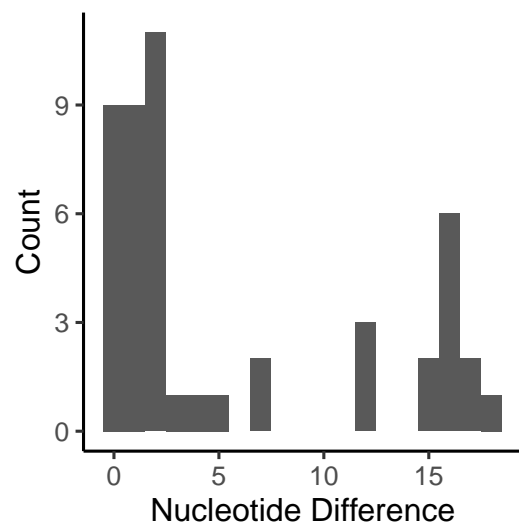
### IGHV1-8\*02

902 sequences assigned  
3 (0.3%) exact matches, in which:  
3 unique CDR3  
3 unique J



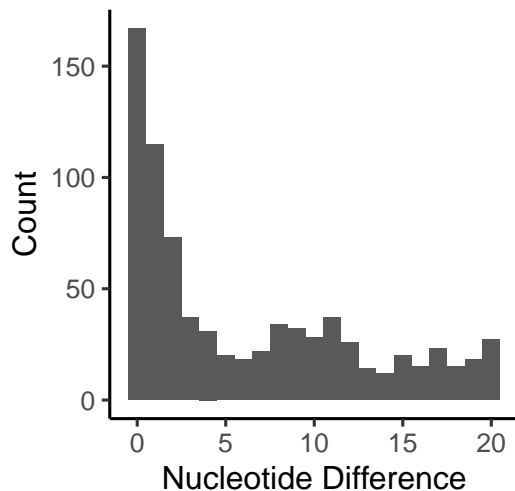
### IGHV1-45\*02

53 sequences assigned  
9 (17%) exact matches, in which:  
9 unique CDR3  
3 unique J



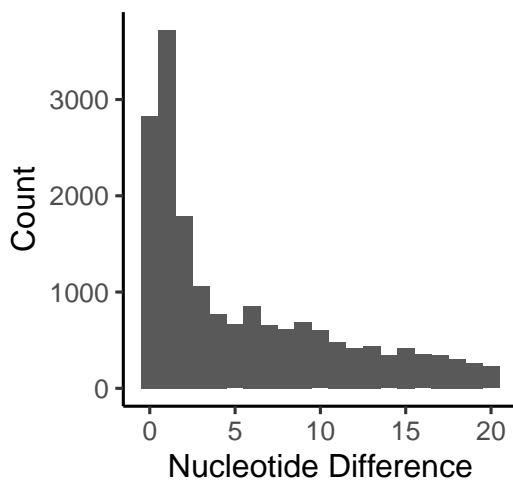
### IGHV1-3\*01\_05

938 sequences assigned  
167 (17.8%) exact matches, in which:  
139 unique CDR3  
6 unique J



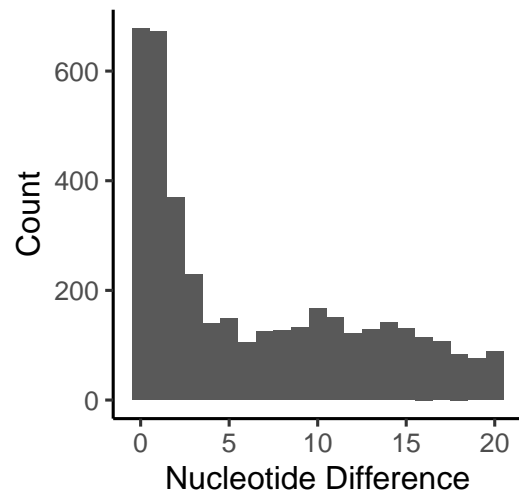
### IGHV1-18\*01

19407 sequences assigned  
2830 (14.6%) exact matches, in which:  
2132 unique CDR3  
6 unique J



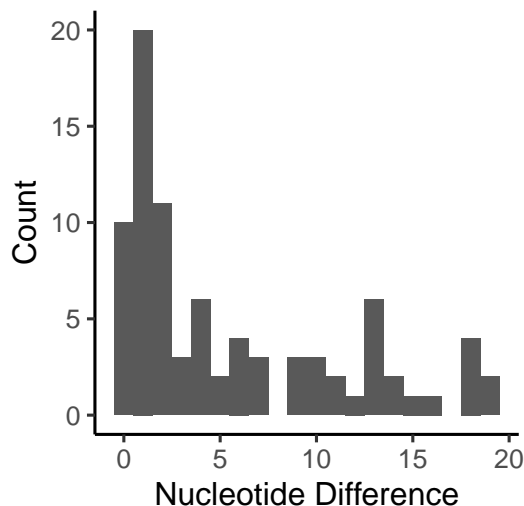
### IGHV1-46\*01

4913 sequences assigned  
678 (13.8%) exact matches, in which:  
559 unique CDR3  
6 unique J



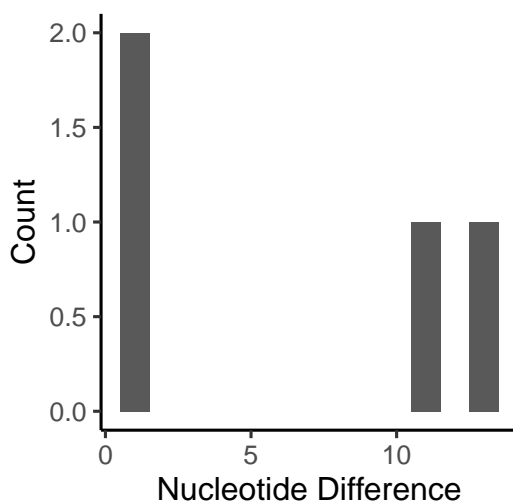
### IGHV1-58\*02

93 sequences assigned  
10 (10.8%) exact matches, in which:  
9 unique CDR3  
3 unique J



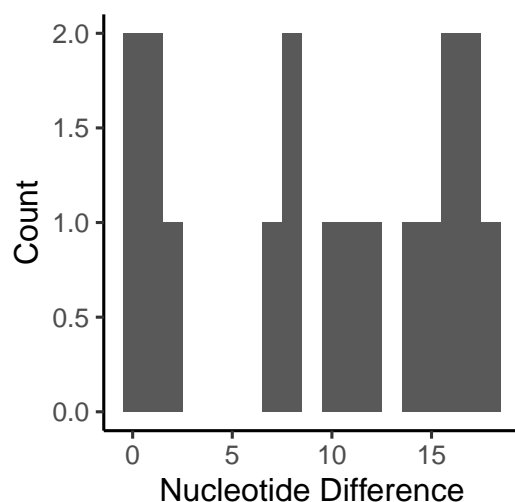
### IGHV2-26\*01

4 sequences assigned  
No exact matches.



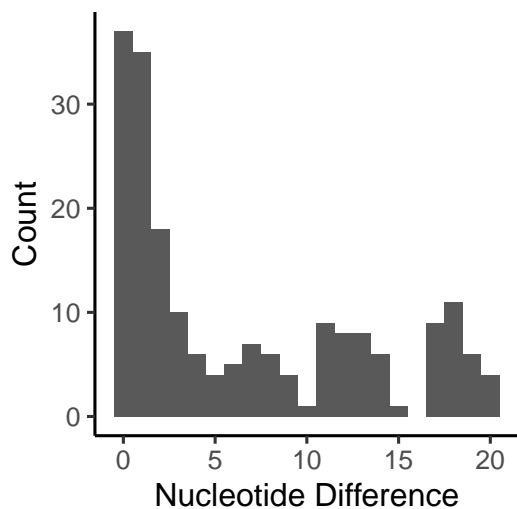
### IGHV2-70\*11\_15

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



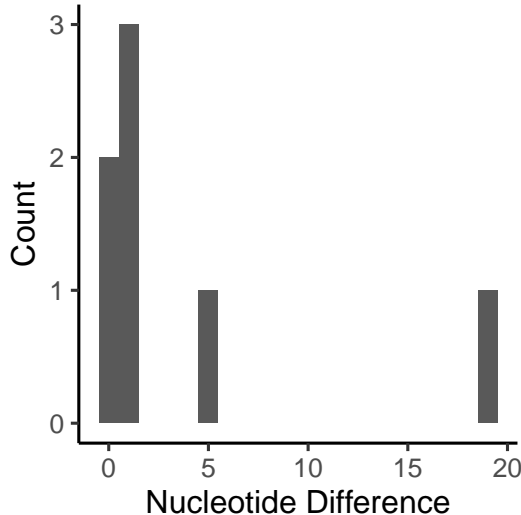
### IGHV1-58\*01\_03

210 sequences assigned  
37 (17.6%) exact matches, in which:  
32 unique CDR3  
6 unique J



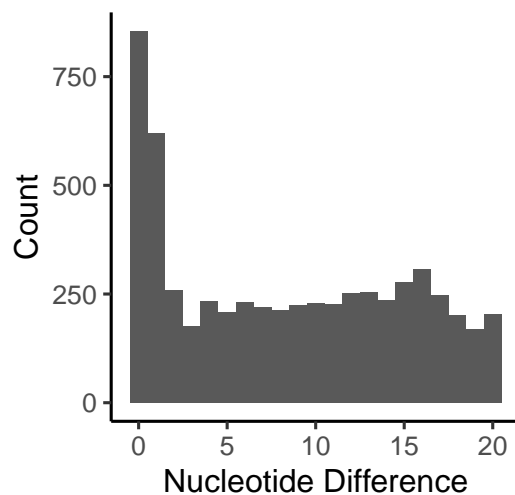
### IGHV2-26\*02

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



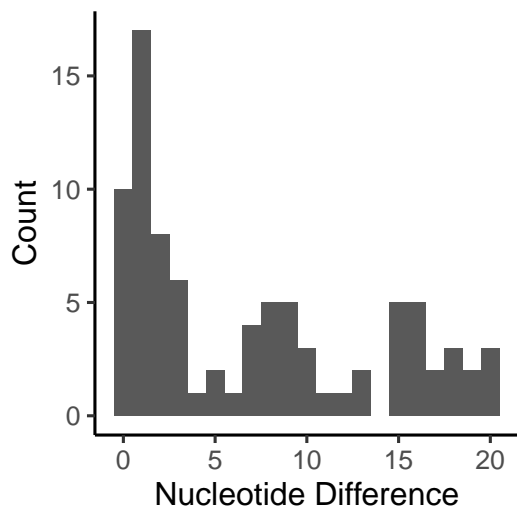
### IGHV3-7\*01

6694 sequences assigned  
855 (12.8%) exact matches, in which:  
674 unique CDR3  
6 unique J



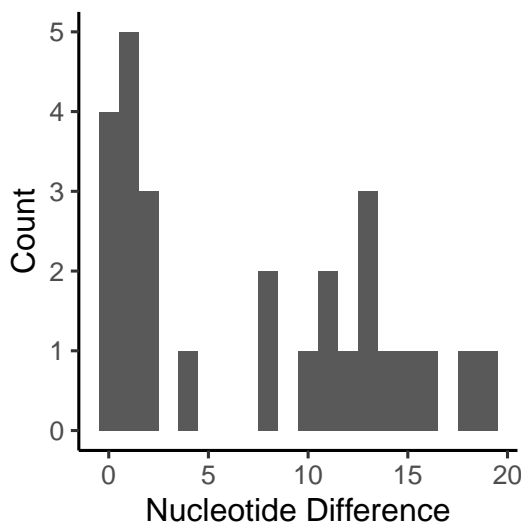
### IGHV2-5\*01

99 sequences assigned  
10 (10.1%) exact matches, in which:  
10 unique CDR3  
3 unique J



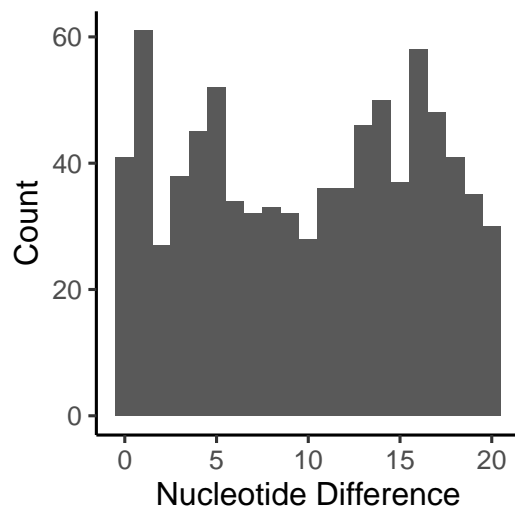
### IGHV2-70\*01

31 sequences assigned  
4 (12.9%) exact matches, in which:  
4 unique CDR3  
3 unique J



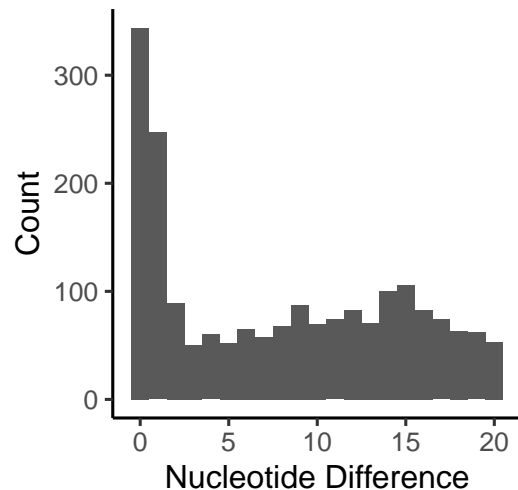
### IGHV3-7\*03

1022 sequences assigned  
41 (4%) exact matches, in which:  
41 unique CDR3  
5 unique J



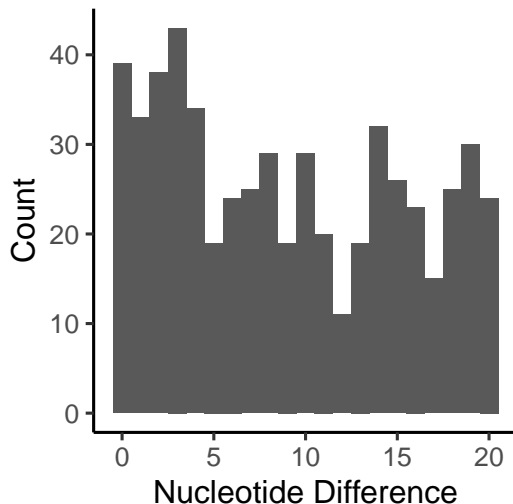
### IGHV3-7\*05

2257 sequences assigned  
344 (15.2%) exact matches, in which:  
266 unique CDR3  
6 unique J



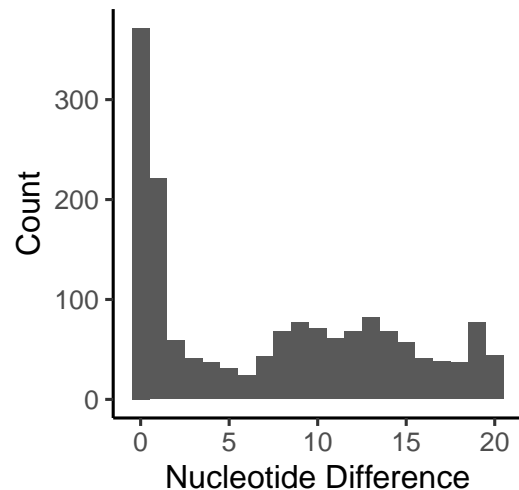
### IGHV3-11\*04

662 sequences assigned  
39 (5.9%) exact matches, in which:  
39 unique CDR3  
6 unique J



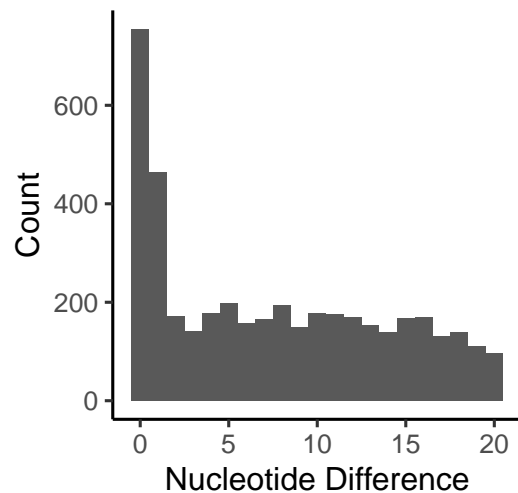
### IGHV3-15\*07

1955 sequences assigned  
372 (19%) exact matches, in which:  
326 unique CDR3  
6 unique J



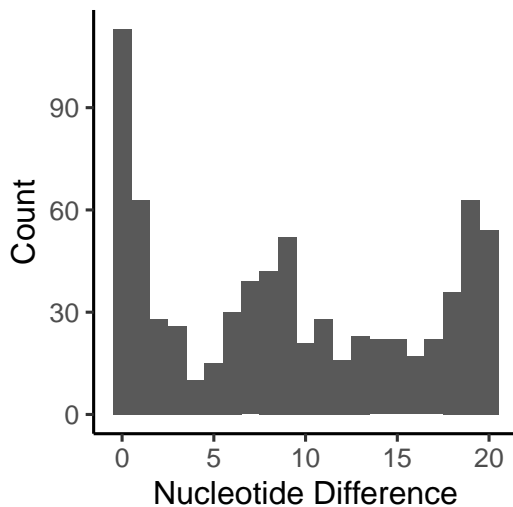
### IGHV3-9\*01

5071 sequences assigned  
755 (14.9%) exact matches, in which:  
597 unique CDR3  
6 unique J



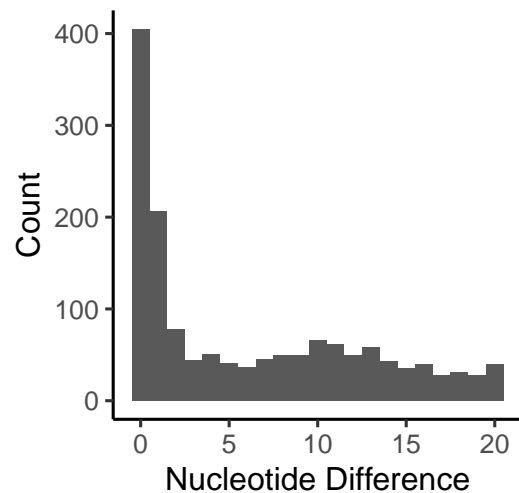
### IGHV3-11\*06

958 sequences assigned  
113 (11.8%) exact matches, in which:  
90 unique CDR3  
6 unique J



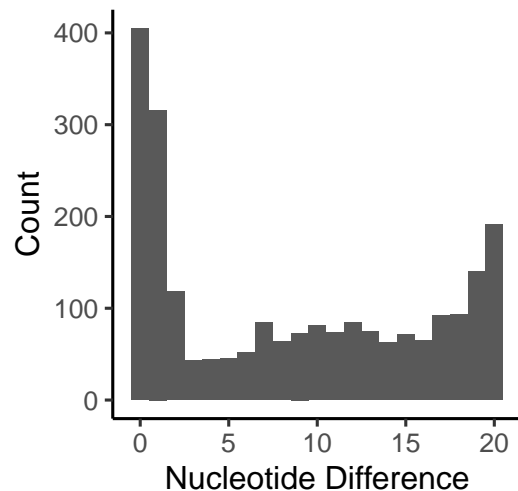
### IGHV3-15\*01\_02

1651 sequences assigned  
405 (24.5%) exact matches, in which:  
342 unique CDR3  
6 unique J



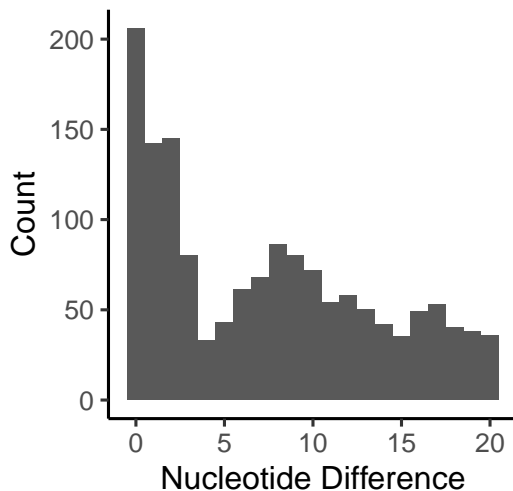
### IGHV3-11\*01

2755 sequences assigned  
405 (14.7%) exact matches, in which:  
337 unique CDR3  
6 unique J



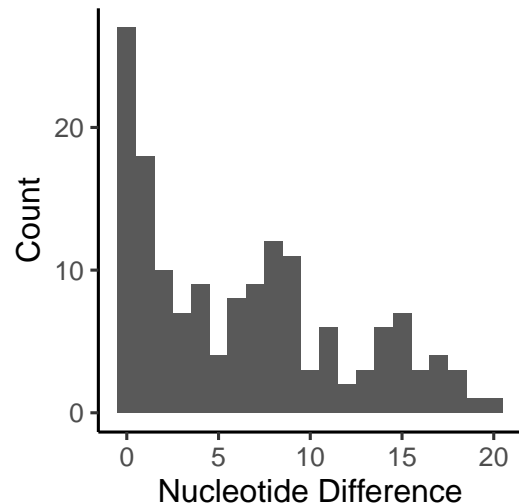
### IGHV3-13\*01

1713 sequences assigned  
206 (12%) exact matches, in which:  
150 unique CDR3  
6 unique J



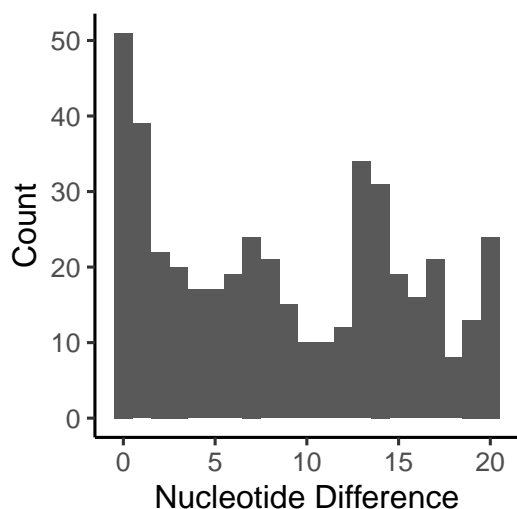
### IGHV3-20\*01\_02

179 sequences assigned  
27 (15.1%) exact matches, in which:  
23 unique CDR3  
5 unique J



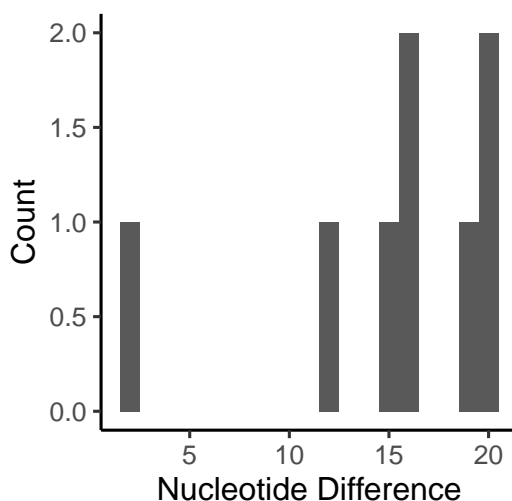
### IGHV3-20\*03\_04

767 sequences assigned  
51 (6.6%) exact matches, in which:  
43 unique CDR3  
6 unique J



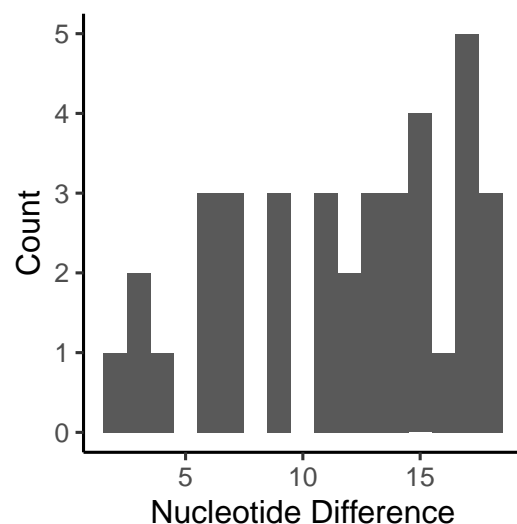
### IGHV3-30-3\*01

22 sequences assigned  
No exact matches.



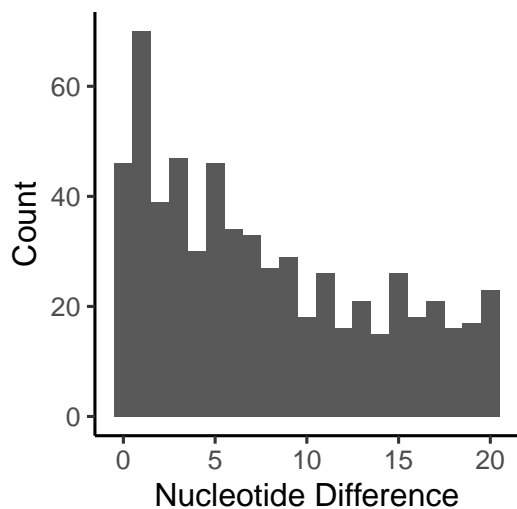
### IGHV3-30-3\*03

80 sequences assigned  
No exact matches.



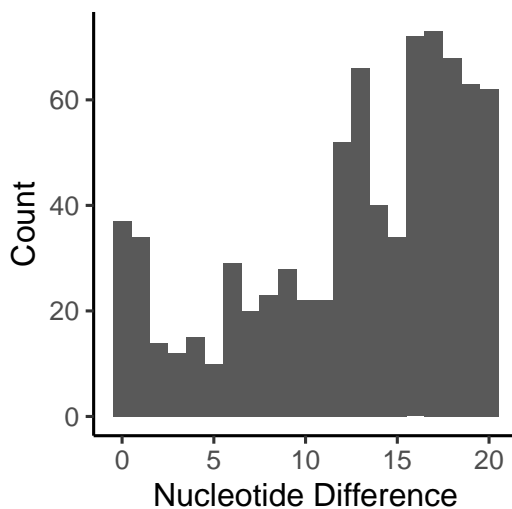
### IGHV3-21\*04

754 sequences assigned  
46 (6.1%) exact matches, in which:  
43 unique CDR3  
5 unique J



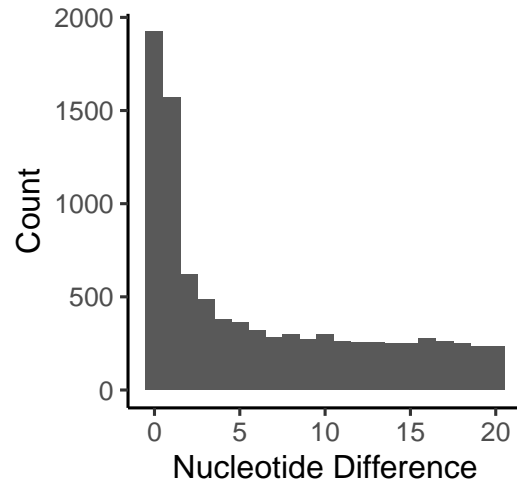
### IGHV3-30-5\*02

1581 sequences assigned  
37 (2.3%) exact matches, in which:  
36 unique CDR3  
4 unique J



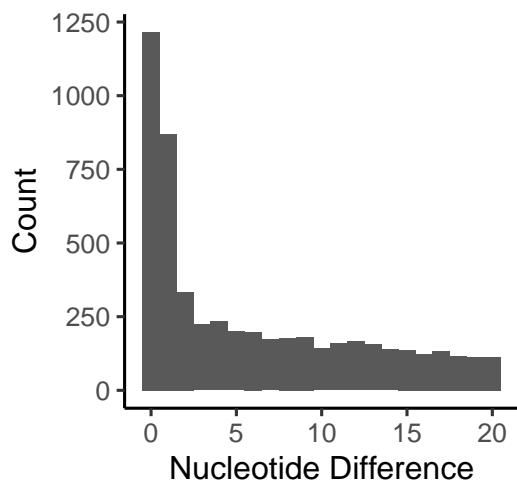
### IGHV3-30\*02\_T201C

11009 sequences assigned  
1923 (17.5%) exact matches, in which:  
1427 unique CDR3  
6 unique J



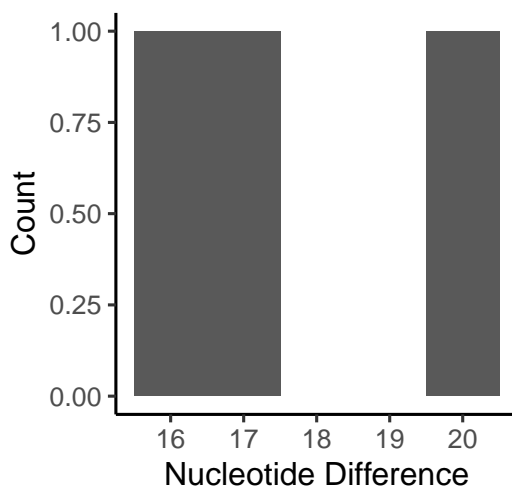
### IGHV3-21\*01\_02

6310 sequences assigned  
1216 (19.3%) exact matches, in which:  
988 unique CDR3  
6 unique J



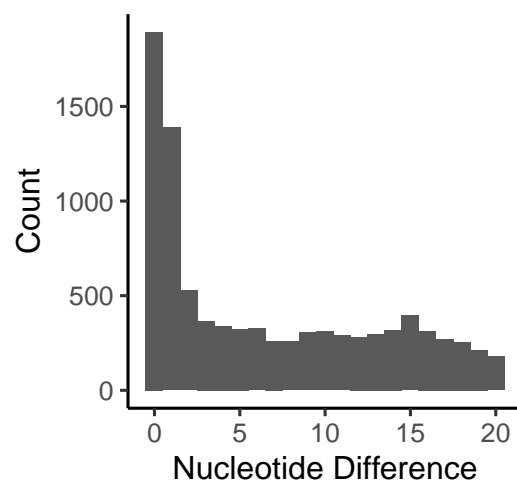
### IGHV3-30-3\*02

12 sequences assigned  
No exact matches.



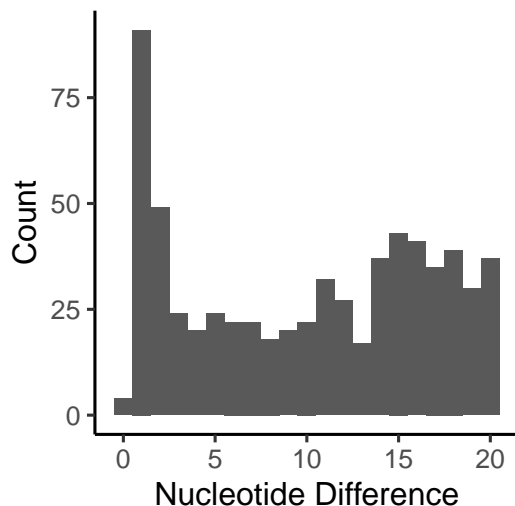
### IGHV3-33\*01

10217 sequences assigned  
1893 (18.5%) exact matches, in which:  
1366 unique CDR3  
6 unique J



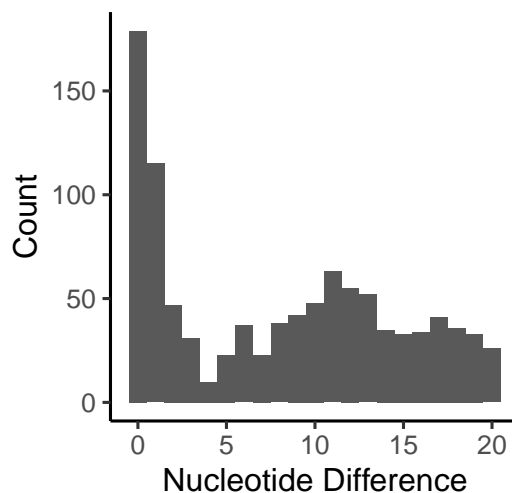
### IGHV3-33\*05

854 sequences assigned  
4 (0.5%) exact matches, in which:  
4 unique CDR3  
3 unique J



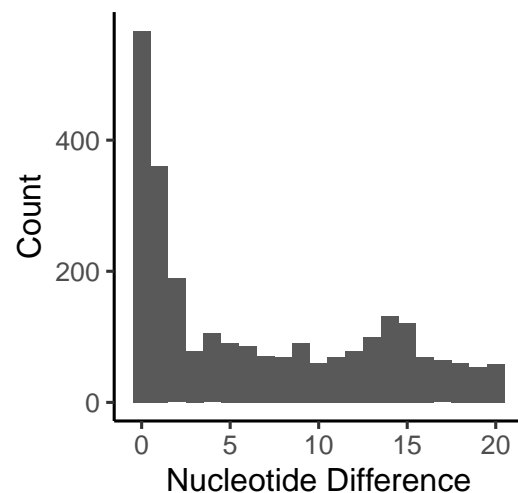
### IGHV3-43\*01

1176 sequences assigned  
179 (15.2%) exact matches, in which:  
140 unique CDR3  
6 unique J



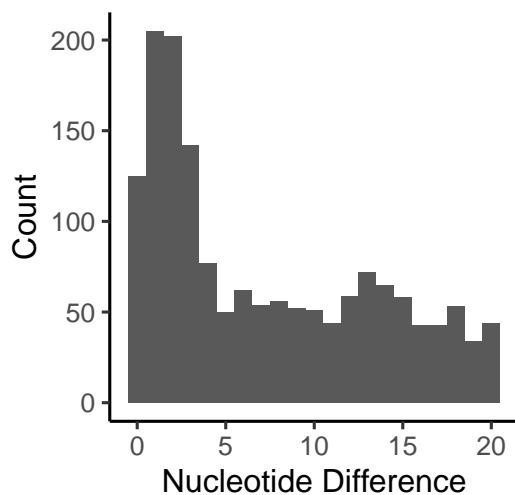
### IGHV3-48\*02

3030 sequences assigned  
567 (18.7%) exact matches, in which:  
442 unique CDR3  
6 unique J



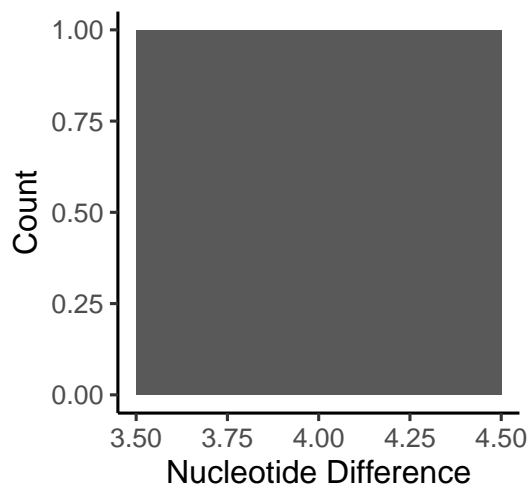
### IGHV3-33\*06

1791 sequences assigned  
125 (7%) exact matches, in which:  
120 unique CDR3  
6 unique J



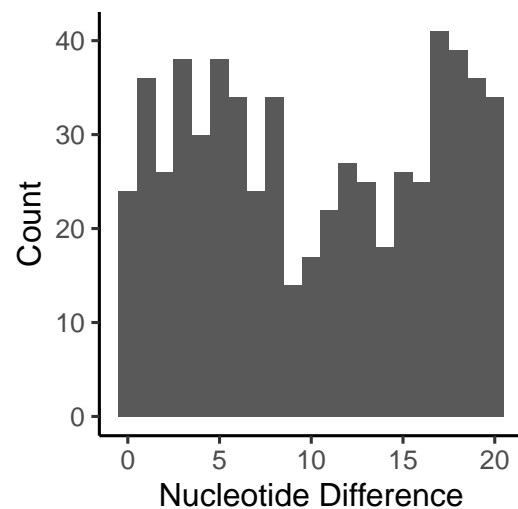
### IGHV3-47\*02

1 sequences assigned  
No exact matches.



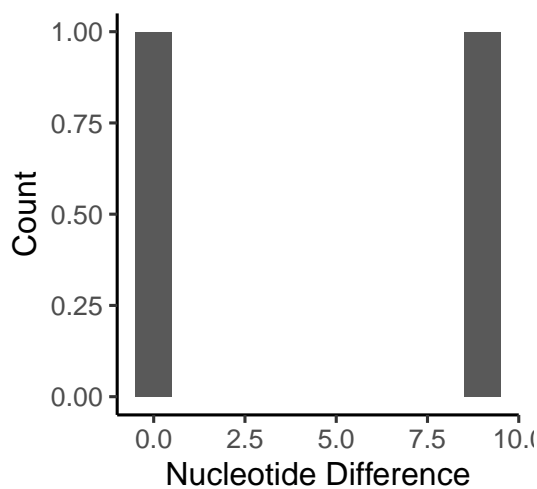
### IGHV3-48\*04

860 sequences assigned  
24 (2.8%) exact matches, in which:  
24 unique CDR3  
6 unique J



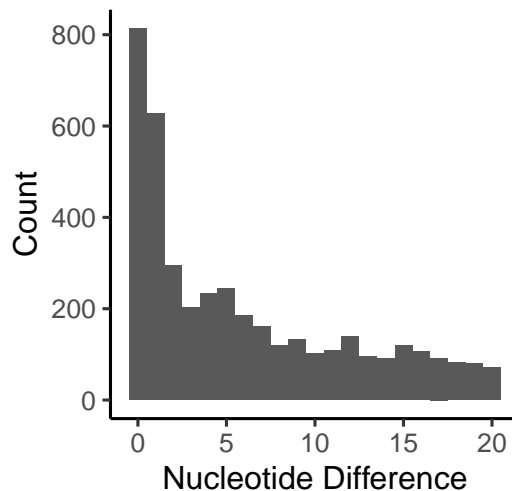
### IGHV3-35\*01

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



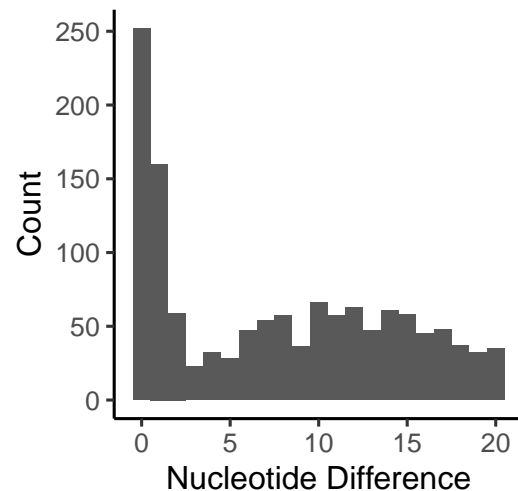
### IGHV3-48\*01

4604 sequences assigned  
814 (17.7%) exact matches, in which:  
674 unique CDR3  
6 unique J



### IGHV3-49\*04

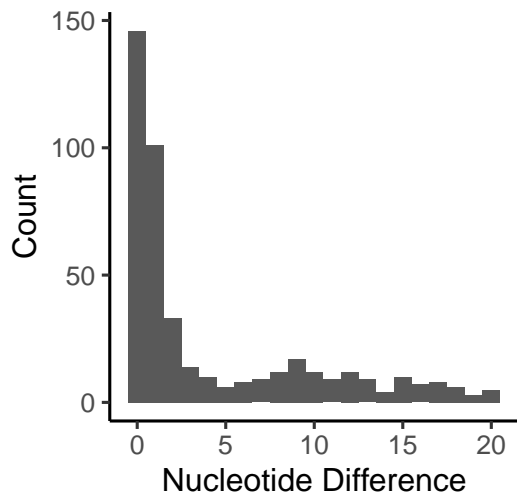
1531 sequences assigned  
252 (16.5%) exact matches, in which:  
211 unique CDR3  
6 unique J





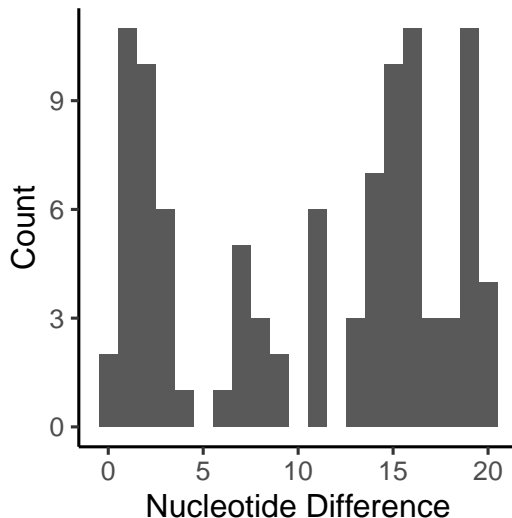
### IGHV3-49\*03\_05

509 sequences assigned  
146 (28.7%) exact matches, in which:  
126 unique CDR3  
5 unique J



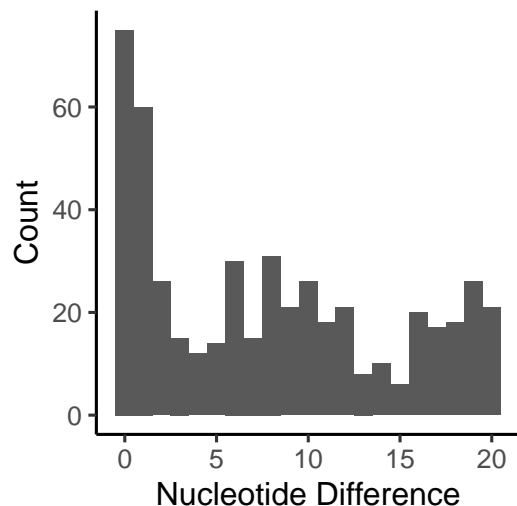
### IGHV3-53\*05

140 sequences assigned  
2 (1.4%) exact matches, in which:  
2 unique CDR3  
1 unique J



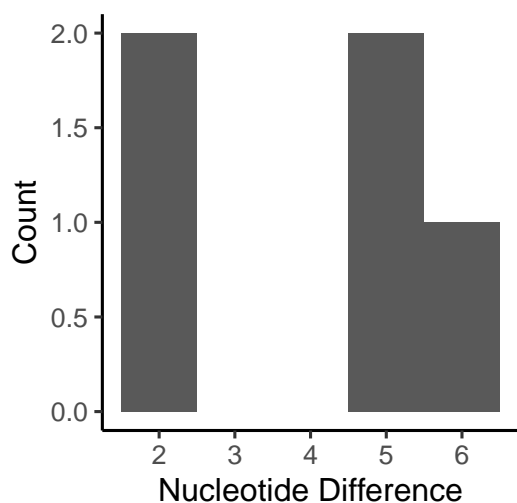
### IGHV3-64\*02\_07

625 sequences assigned  
75 (12%) exact matches, in which:  
57 unique CDR3  
6 unique J



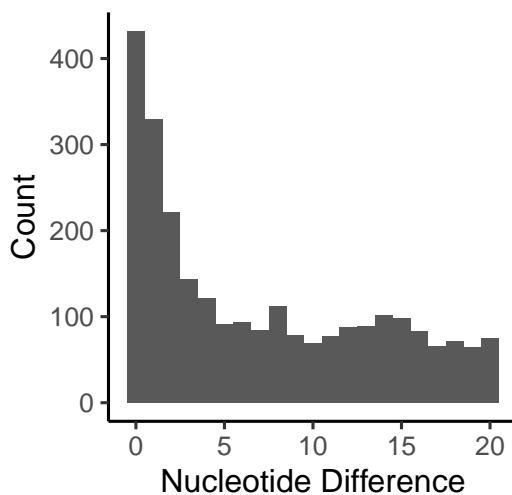
### IGHV3-52\*02

6 sequences assigned  
No exact matches.



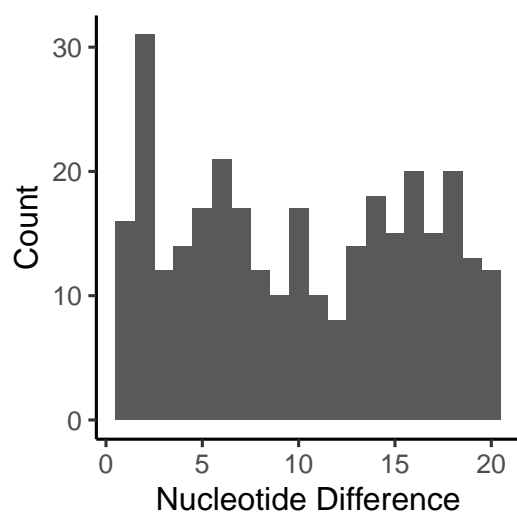
### IGHV3-53\*01\_02

3045 sequences assigned  
432 (14.2%) exact matches, in which:  
348 unique CDR3  
6 unique J



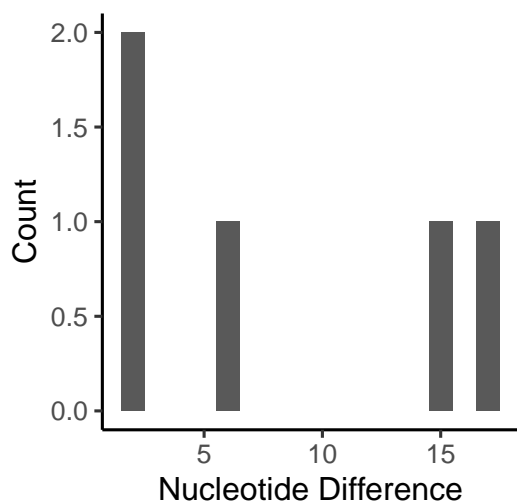
### IGHV3-66\*01

407 sequences assigned  
No exact matches.



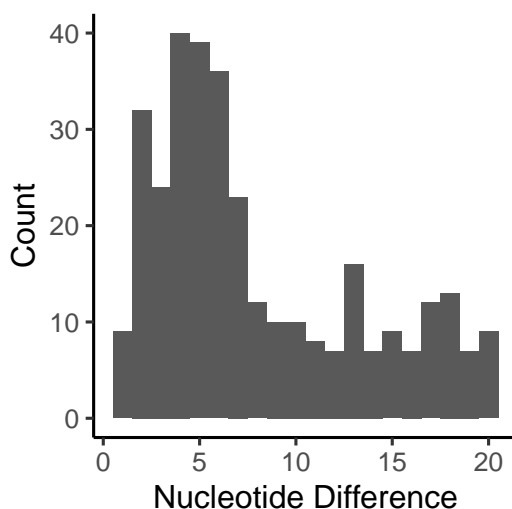
### IGHV3-52\*01\_03

7 sequences assigned  
No exact matches.



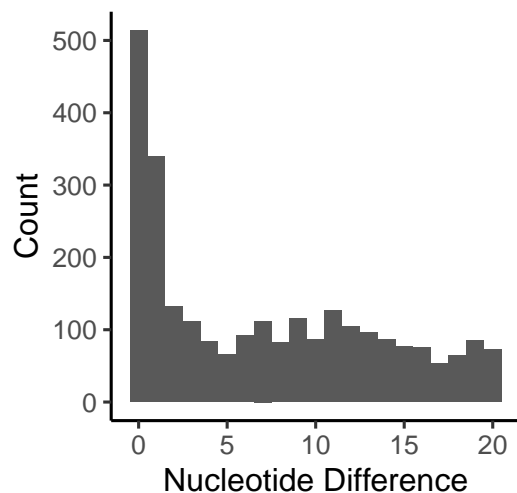
### IGHV3-64\*04

403 sequences assigned  
No exact matches.



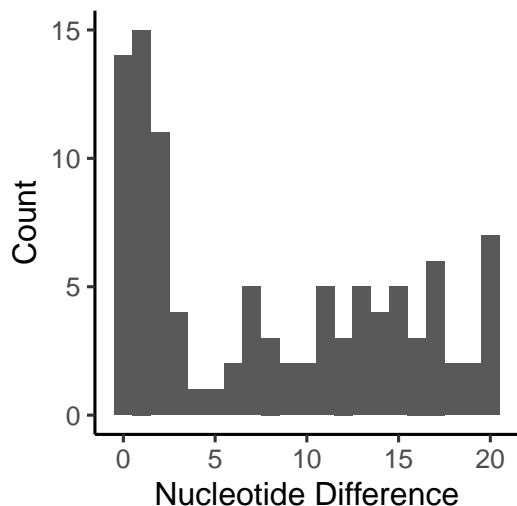
### IGHV3-66\*02

3086 sequences assigned  
514 (16.7%) exact matches, in which:  
401 unique CDR3  
6 unique J



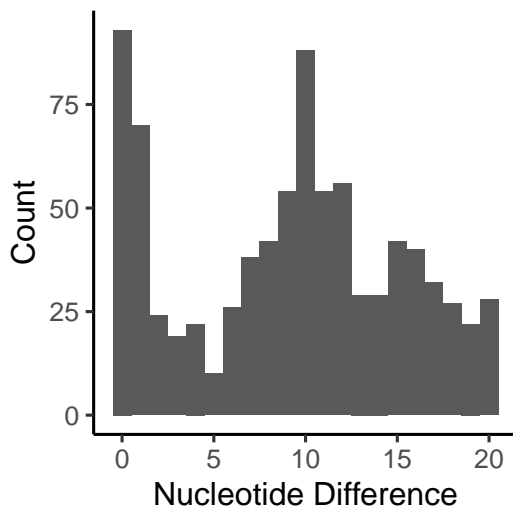
### IGHV3-66\*03

195 sequences assigned  
14 (7.2%) exact matches, in which:  
13 unique CDR3  
2 unique J



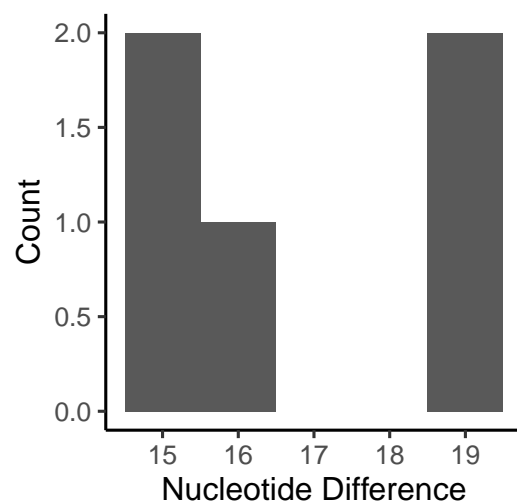
### IGHV3-72\*01

975 sequences assigned  
93 (9.5%) exact matches, in which:  
77 unique CDR3  
6 unique J



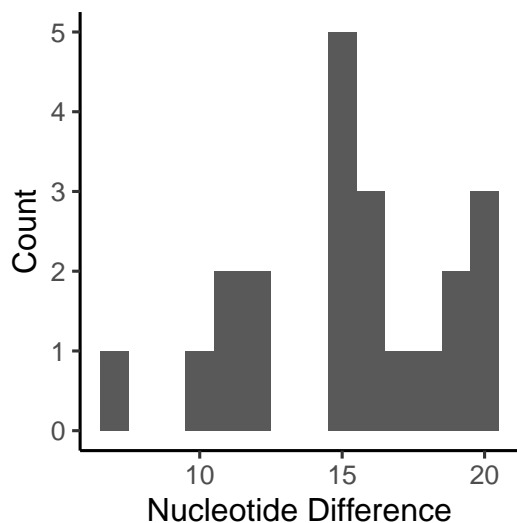
### IGHV3-43D\*04

13 sequences assigned  
No exact matches.



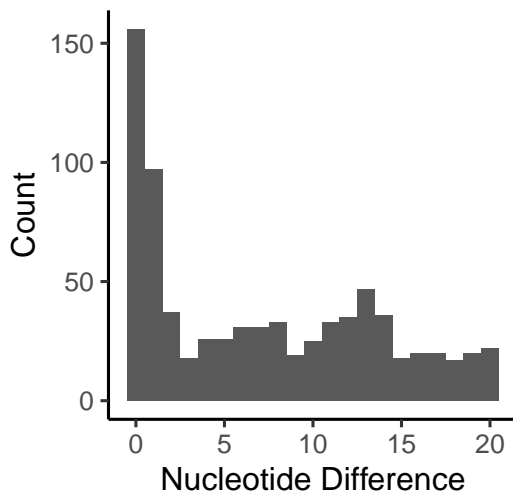
### IGHV3-69-1\*01

44 sequences assigned  
No exact matches.



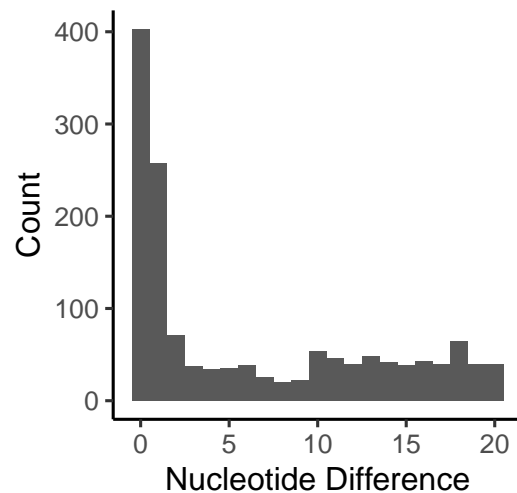
### IGHV3-73\*01\_02

938 sequences assigned  
156 (16.6%) exact matches, in which:  
141 unique CDR3  
6 unique J



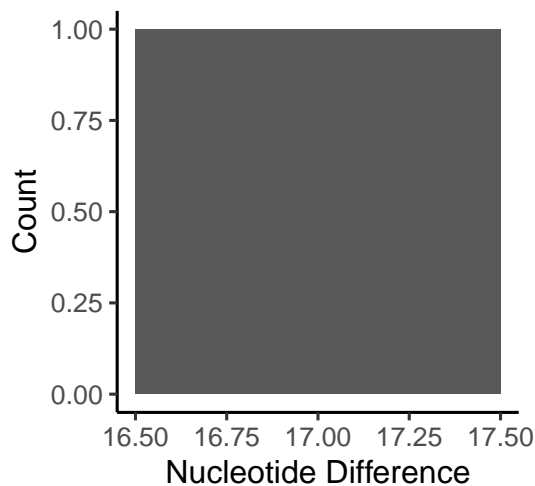
### IGHV3-64D\*08

1766 sequences assigned  
403 (22.8%) exact matches, in which:  
279 unique CDR3  
6 unique J



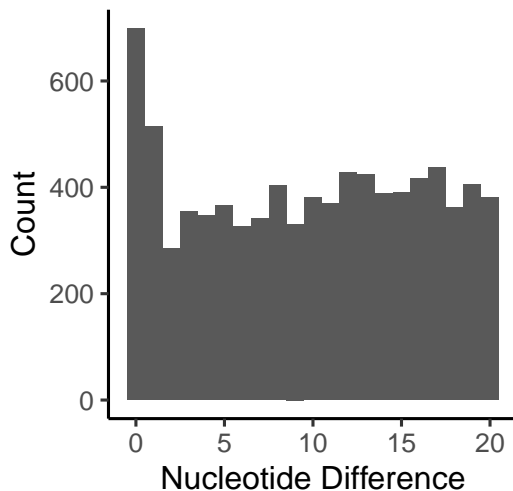
### IGHV3-71\*03

1 sequences assigned  
No exact matches.



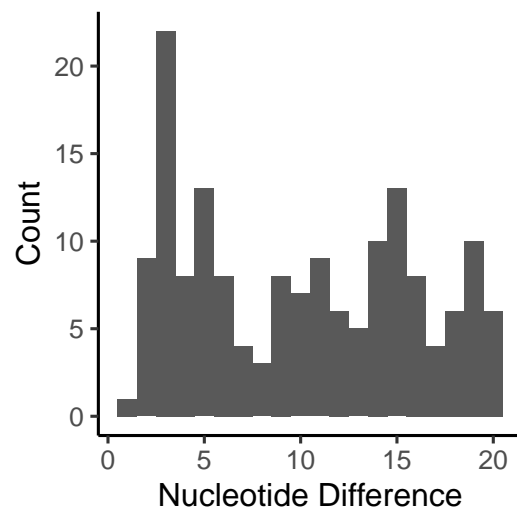
### IGHV3-74\*01\_02

10702 sequences assigned  
699 (6.5%) exact matches, in which:  
555 unique CDR3  
6 unique J



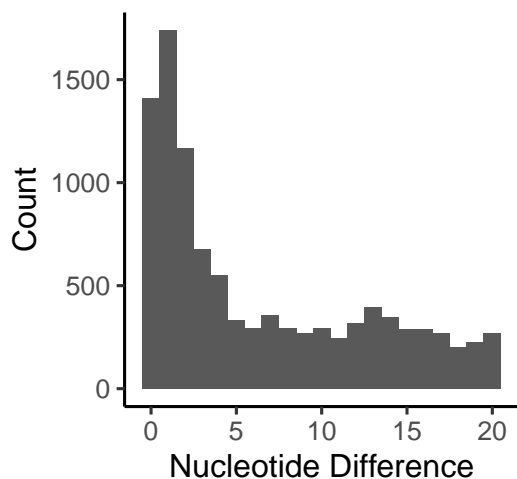
### IGHV3-NL1\*01

234 sequences assigned  
No exact matches.



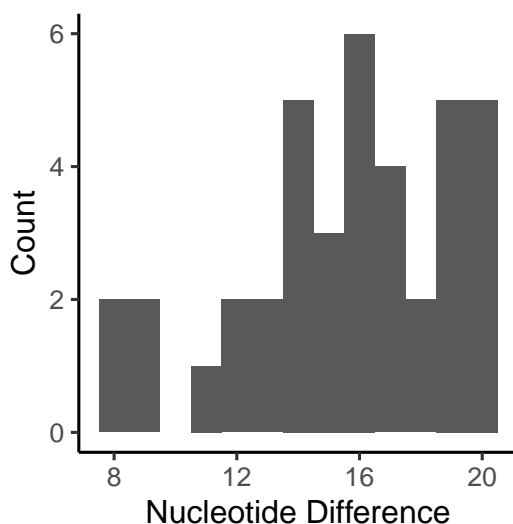
### IGHV4-4\*07

12502 sequences assigned  
1409 (11.3%) exact matches, in which:  
989 unique CDR3  
6 unique J



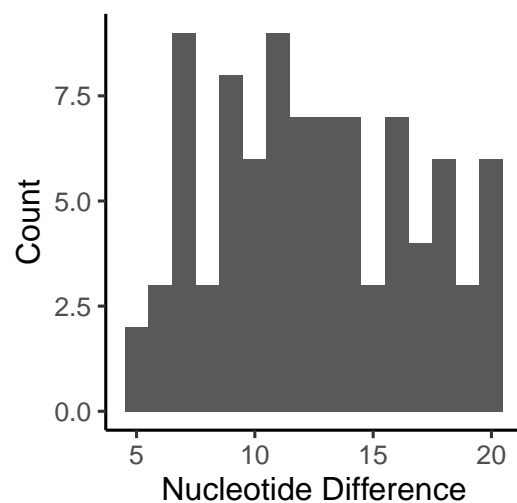
### IGHV4-30-4\*01

102 sequences assigned  
No exact matches.



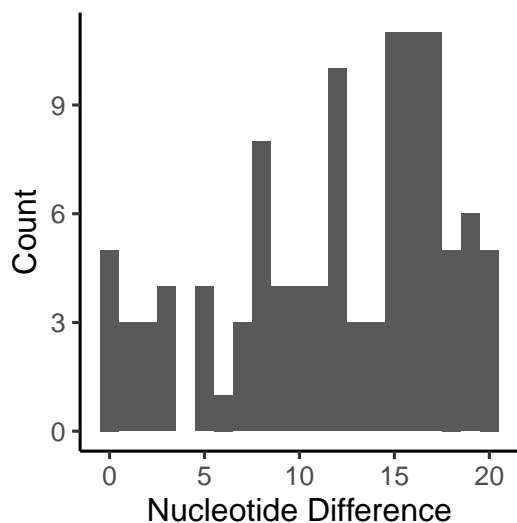
### IGHV4-30-4\*08

135 sequences assigned  
No exact matches.



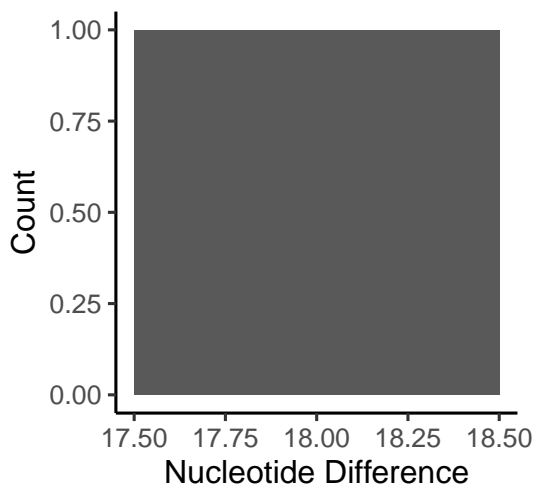
### IGHV4-28\*03

167 sequences assigned  
5 (3%) exact matches, in which:  
5 unique CDR3  
2 unique J



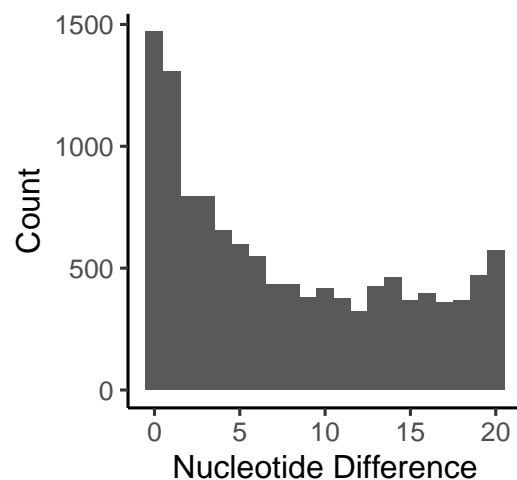
### IGHV4-30-2\*01

19 sequences assigned  
No exact matches.



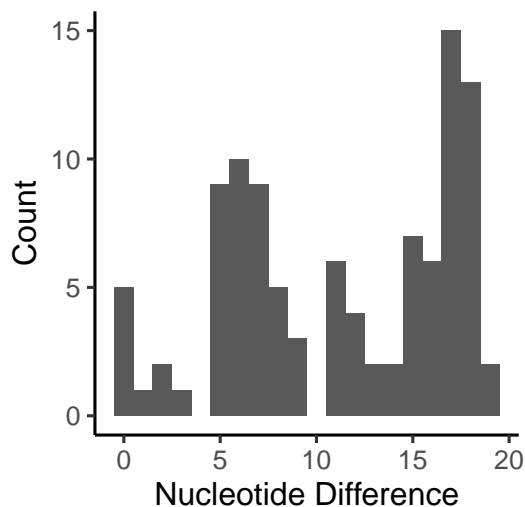
### IGHV4-31\*03\_04

16438 sequences assigned  
1470 (8.9%) exact matches, in which:  
1048 unique CDR3  
6 unique J



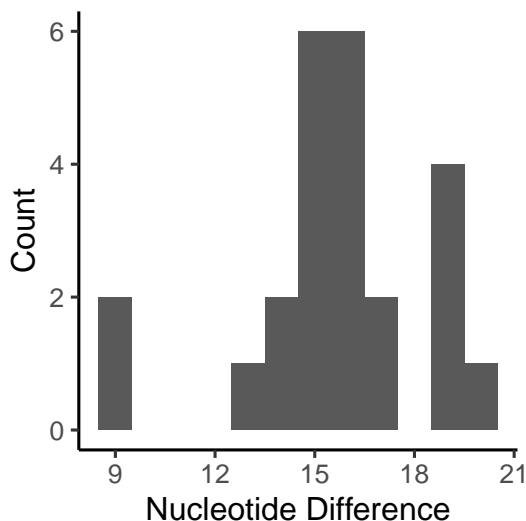
### IGHV4-28\*06

117 sequences assigned  
5 (4.3%) exact matches, in which:  
3 unique CDR3  
3 unique J



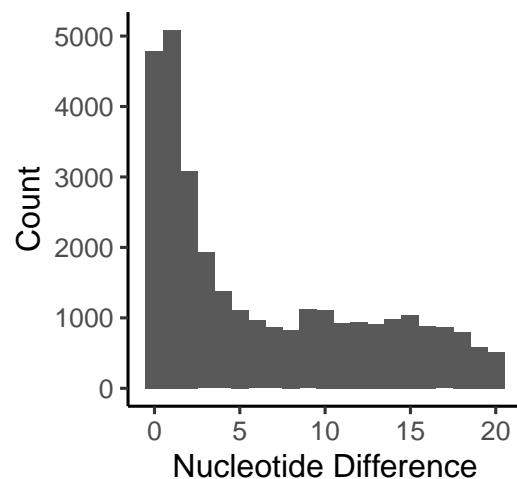
### IGHV4-30-2\*03

48 sequences assigned  
No exact matches.



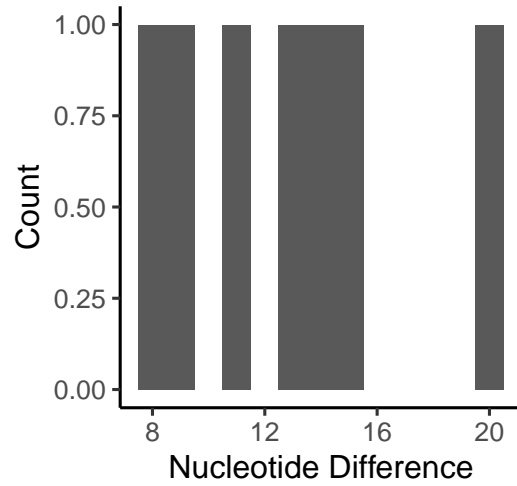
### IGHV4-34\*01\_02

34736 sequences assigned  
4789 (13.8%) exact matches, in which:  
3197 unique CDR3  
6 unique J



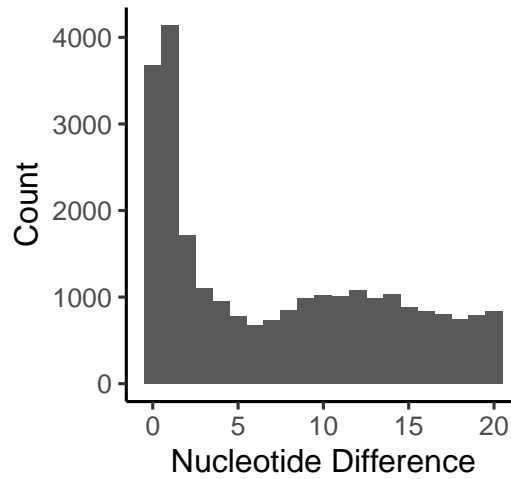
### IGHV4-38-2\*01

11 sequences assigned  
No exact matches.



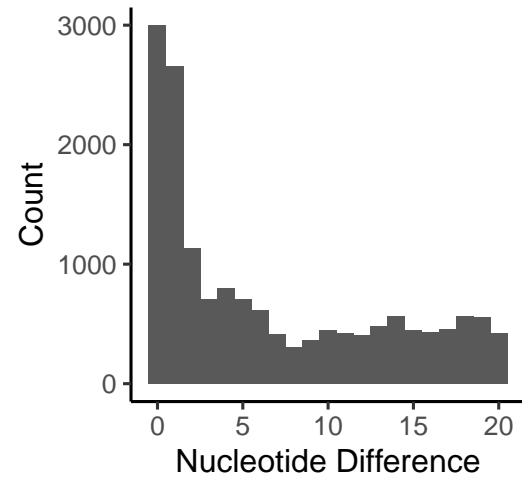
### IGHV4-39\*01\_05

33925 sequences assigned  
3683 (10.9%) exact matches, in which:  
2415 unique CDR3  
6 unique J



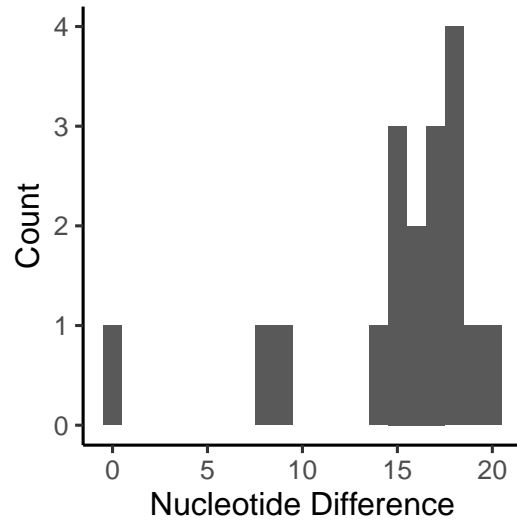
### IGHV4-59\*01\_07

18842 sequences assigned  
2998 (15.9%) exact matches, in which:  
2113 unique CDR3  
6 unique J



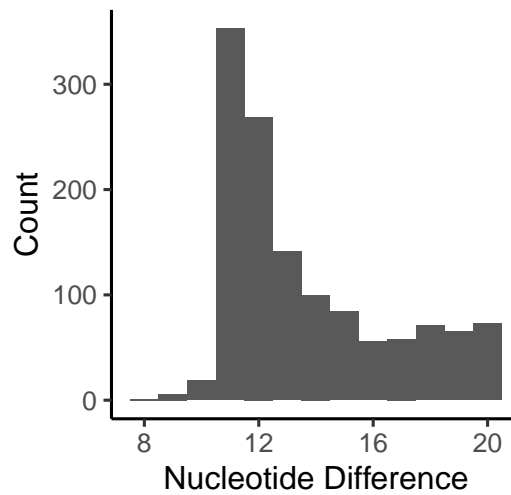
### IGHV4-38-2\*02

44 sequences assigned  
1 (2.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



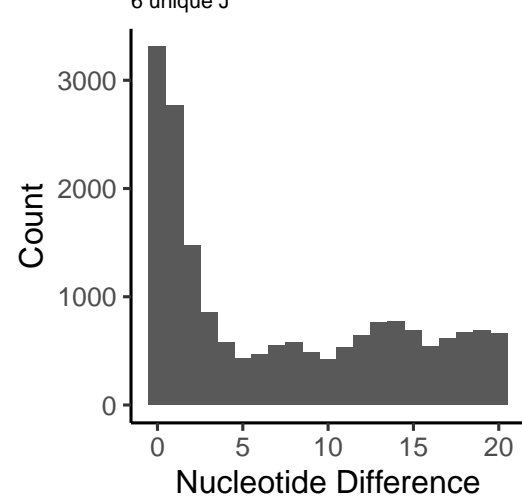
### IGHV4-55\*02\_04\_08

2280 sequences assigned  
No exact matches.



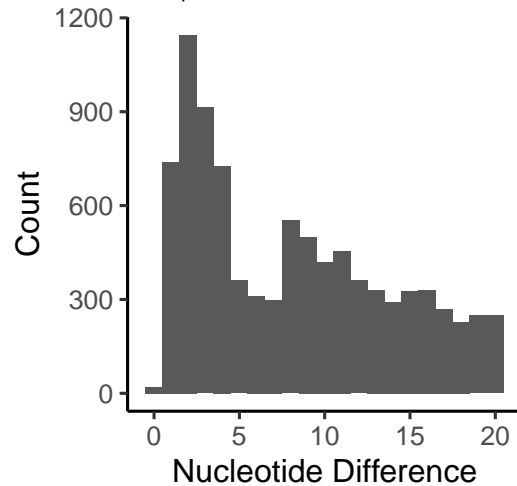
### IGHV4-59\*11

22034 sequences assigned  
3310 (15%) exact matches, in which:  
2335 unique CDR3  
6 unique J



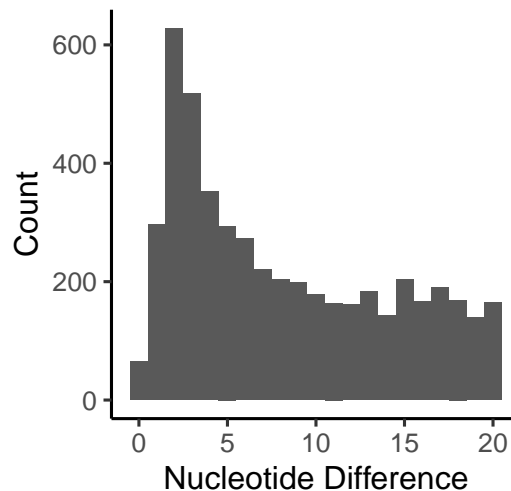
### IGHV4-39\*07

10635 sequences assigned  
20 (0.2%) exact matches, in which:  
20 unique CDR3  
5 unique J



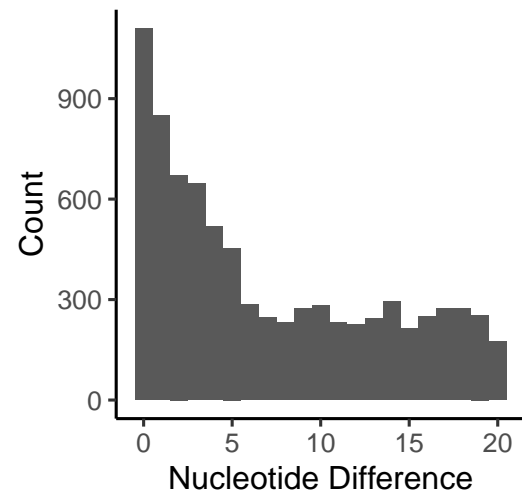
### IGHV4-59\*08

5845 sequences assigned  
65 (1.1%) exact matches, in which:  
62 unique CDR3  
6 unique J



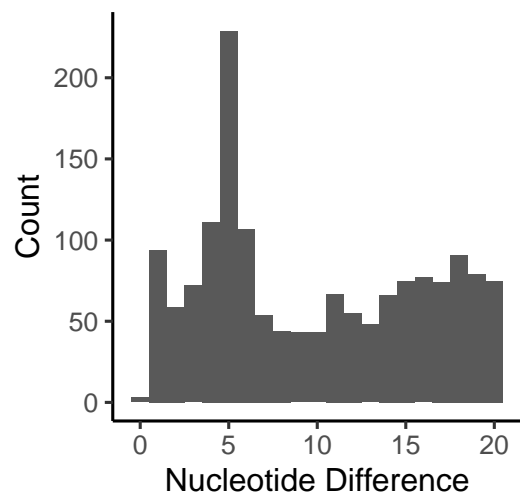
### IGHV4-61\*01

9126 sequences assigned  
1110 (12.2%) exact matches, in which:  
861 unique CDR3  
6 unique J



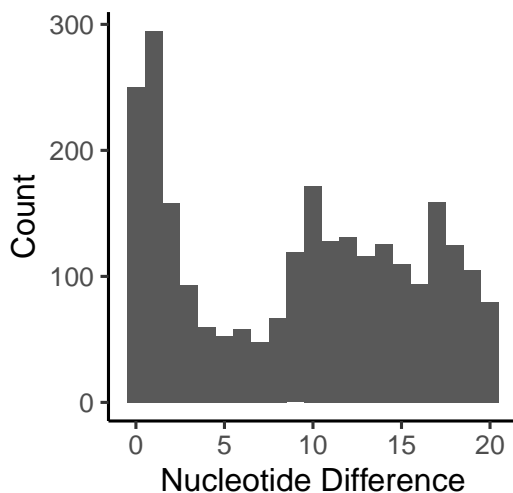
### IGHV4-61\*08

2157 sequences assigned  
3 (0.1%) exact matches, in which:  
3 unique CDR3  
2 unique J



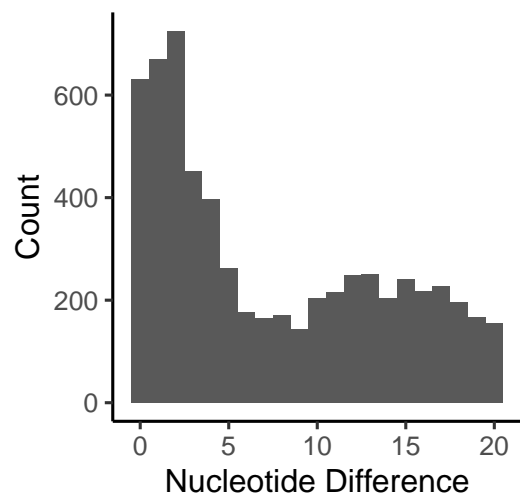
### IGHV5-51\*01\_03

3152 sequences assigned  
250 (7.9%) exact matches, in which:  
192 unique CDR3  
6 unique J



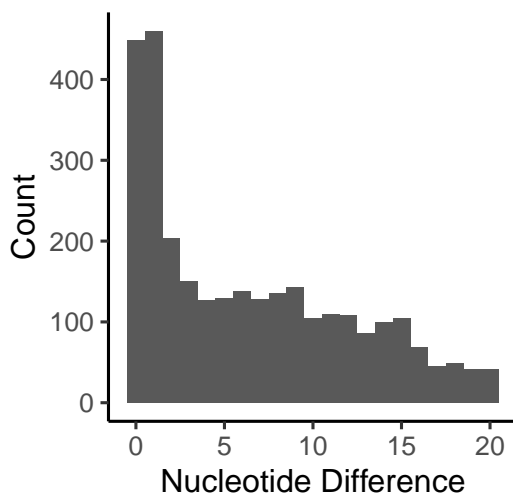
### IGHV4-61\*09

7719 sequences assigned  
630 (8.2%) exact matches, in which:  
452 unique CDR3  
6 unique J



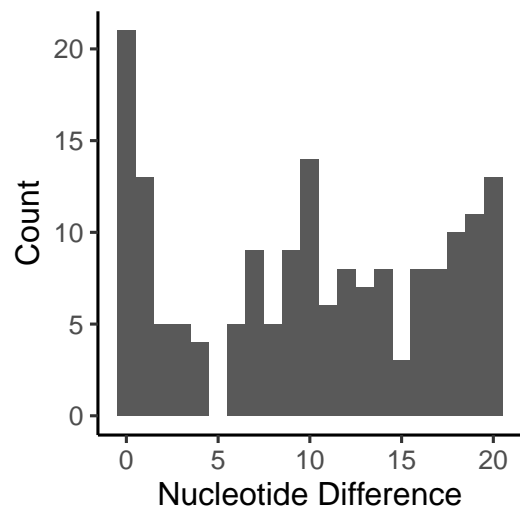
### IGHV6-1\*01\_02

3154 sequences assigned  
449 (14.2%) exact matches, in which:  
334 unique CDR3  
6 unique J



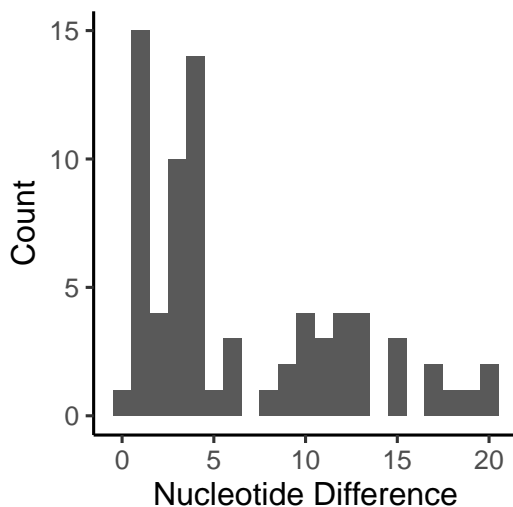
### IGHV5-10-1\*01\_03

215 sequences assigned  
21 (9.8%) exact matches, in which:  
16 unique CDR3  
4 unique J



### IGHV7-4-1\*01

82 sequences assigned  
1 (1.2%) exact matches, in which:  
1 unique CDR3  
1 unique J





Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59\*02\_G88A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning:IGHV4–31\*02,IGHV4–31\*03\_04 have identical germline sequences.

Warning – no inferred sequences found.

Novel sequence(s)IGHV3–30\*02\_T201C are not listed in the genotype and will be ignored.