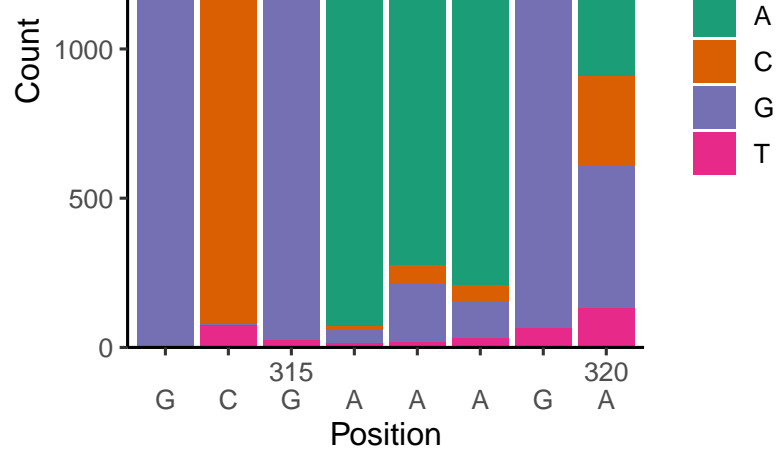


Gene IGHV3-30\*18\_C170G\_A171G\_G301A



Gene IGHV3-30\*18\_C170G\_A171G\_G301A



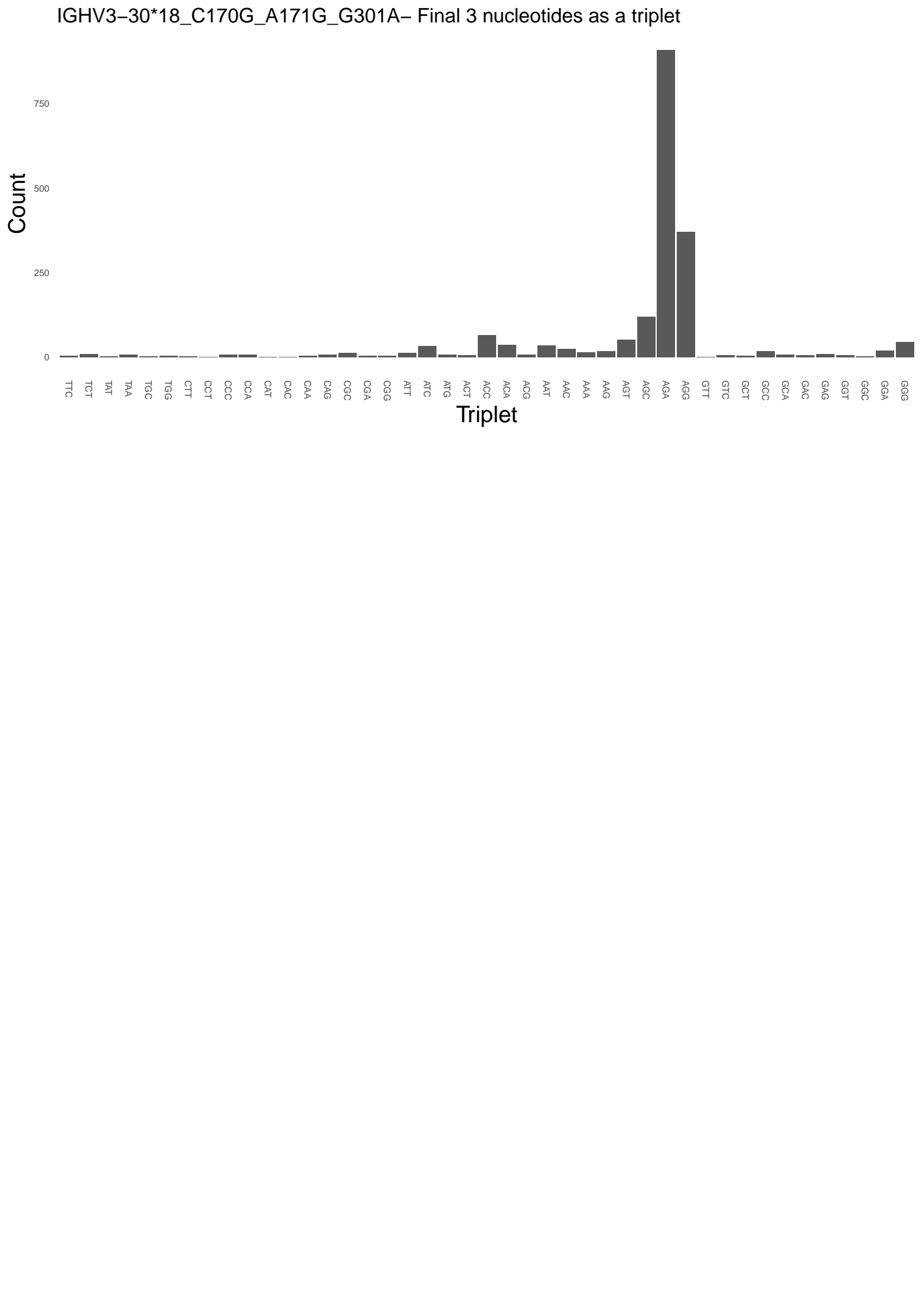
IGHV3-30\*18\_C170G\_A171G\_G301A- Final 3 nucleotides as a triplet

Count

750  
500  
250  
0

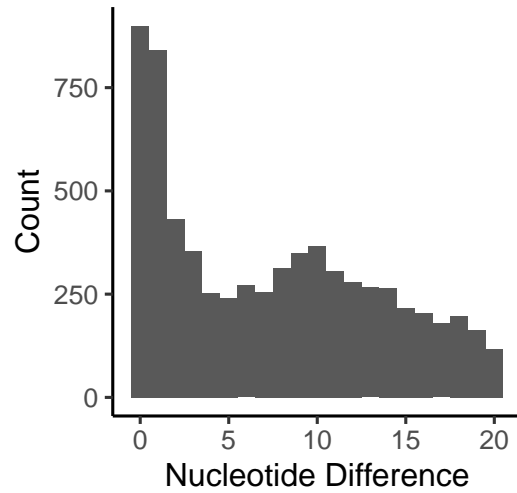
Triplet

TTC TCT TAT TAA TGC TGG CTT CCT CCC CCA CAT CAC CAA CAG CGC CGA CGG ATT ATC ATG ACT ACC ACA ACG AAT AAC AAA AAG AGT AGC AGA AGG GTT GTC GCT GCC GCA GAC GAG GGT GGC GGA GGG



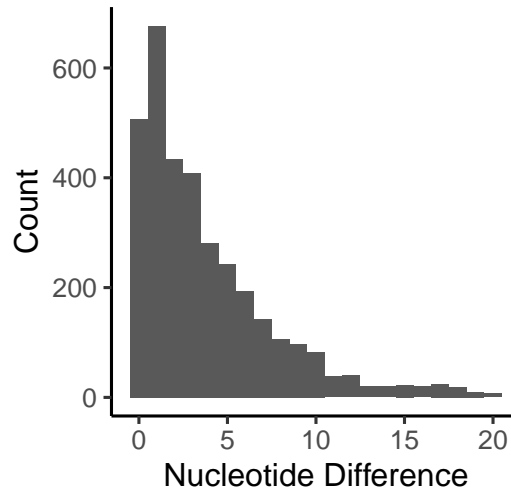
### IGHV1-2\*02

7340 sequences assigned  
900 (12.3%) exact matches, in which:  
744 unique CDR3  
7 unique J



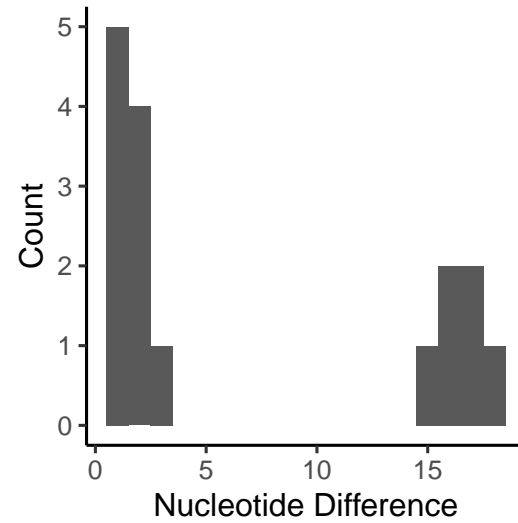
### IGHV1-8\*03

3431 sequences assigned  
507 (14.8%) exact matches, in which:  
386 unique CDR3  
7 unique J



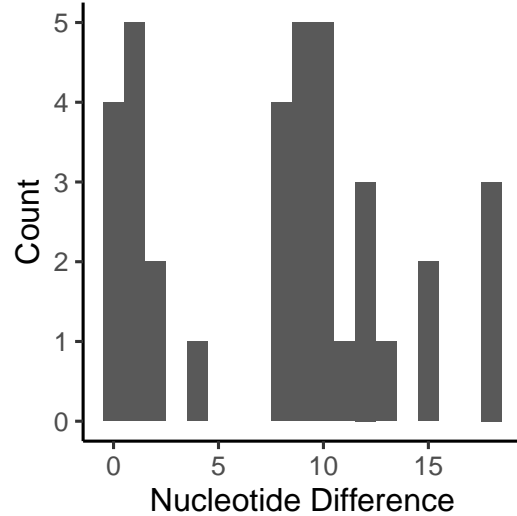
### IGHV1-45\*02

16 sequences assigned  
No exact matches.



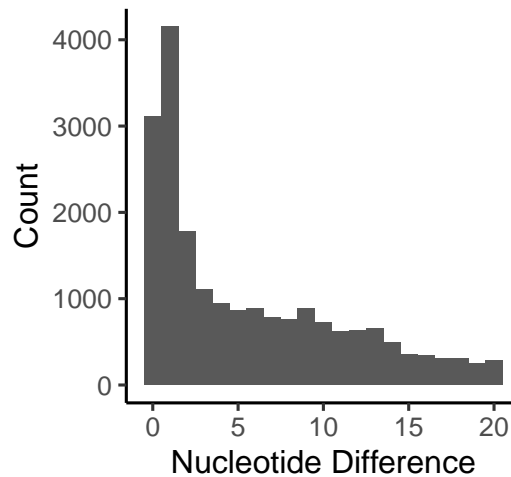
### IGHV1-3\*02

36 sequences assigned  
4 (11.1%) exact matches, in which:  
4 unique CDR3  
2 unique J



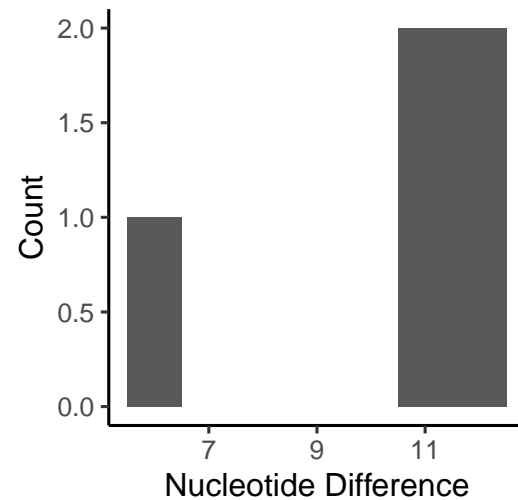
### IGHV1-18\*01

21373 sequences assigned  
3111 (14.6%) exact matches, in which:  
2384 unique CDR3  
7 unique J



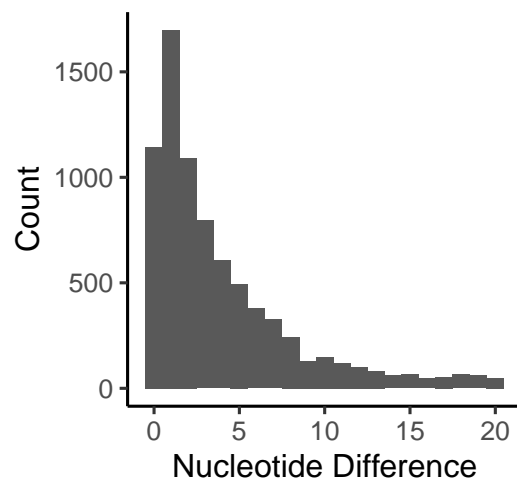
### IGHV1-45\*03

5 sequences assigned  
No exact matches.



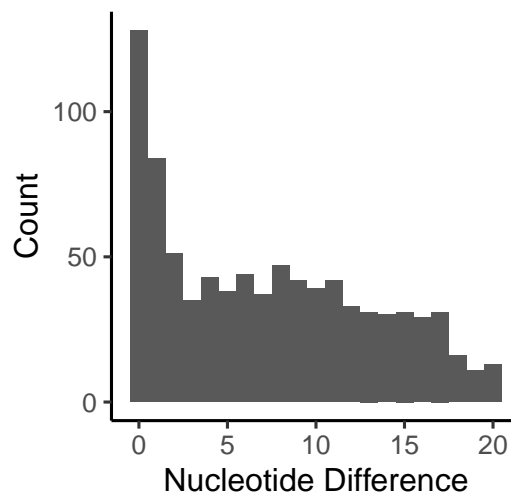
### IGHV1-8\*01

7869 sequences assigned  
1144 (14.5%) exact matches, in which:  
909 unique CDR3  
7 unique J



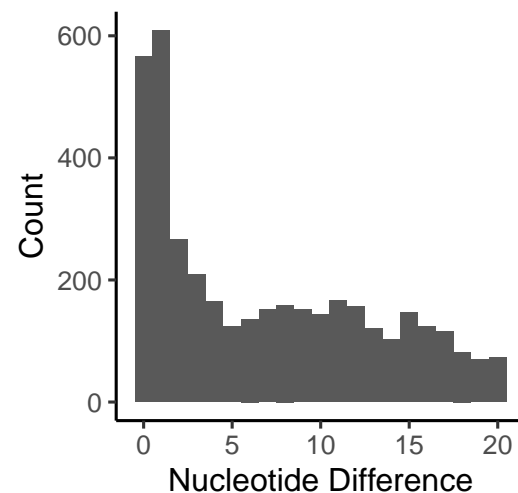
### IGHV1-24\*01

913 sequences assigned  
128 (14%) exact matches, in which:  
117 unique CDR3  
7 unique J



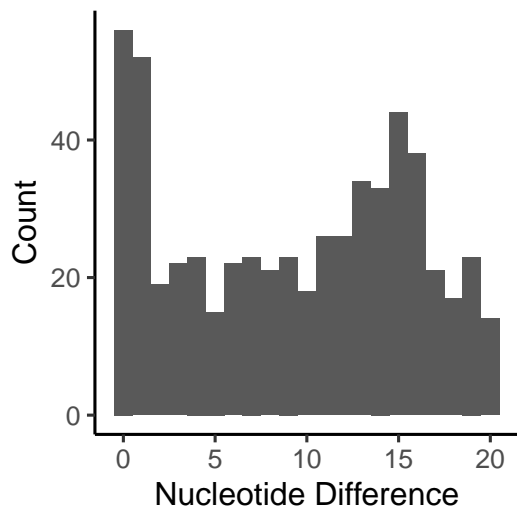
### IGHV1-46\*01

4124 sequences assigned  
566 (13.7%) exact matches, in which:  
435 unique CDR3  
7 unique J



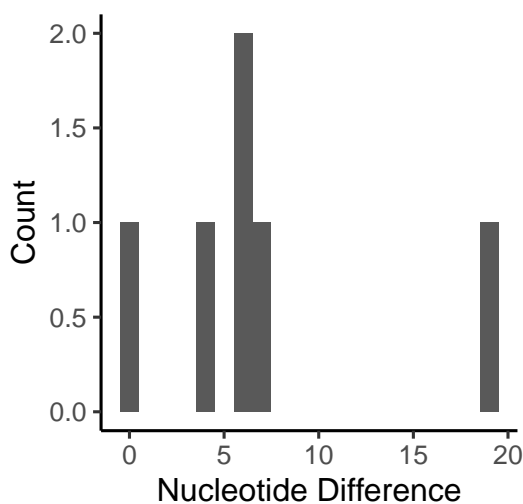
### IGHV1-58\*02

643 sequences assigned  
56 (8.7%) exact matches, in which:  
51 unique CDR3  
7 unique J



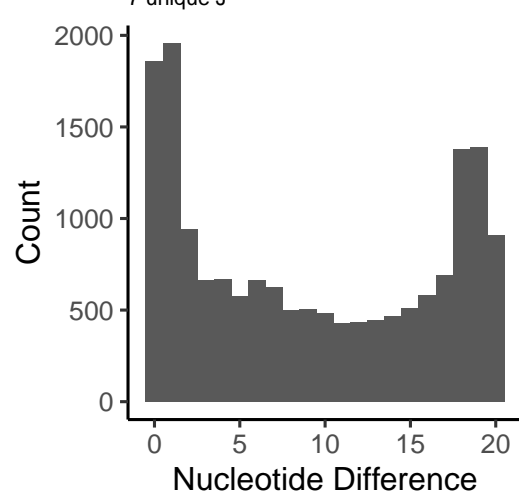
### IGHV2-5\*01

7 sequences assigned  
1 (14.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



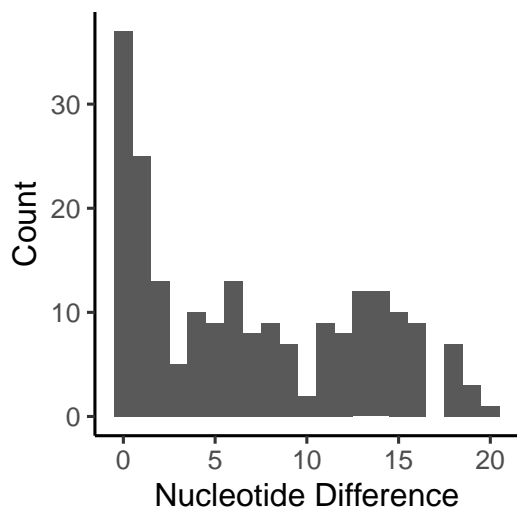
### IGHV3-7\*01

18844 sequences assigned  
1858 (9.9%) exact matches, in which:  
1476 unique CDR3  
7 unique J



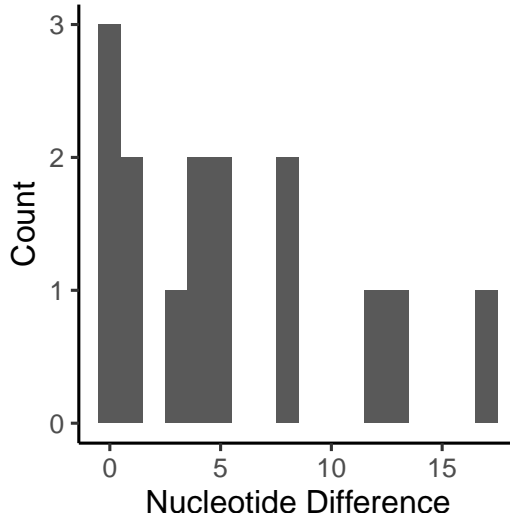
### IGHV1-69-2\*01

223 sequences assigned  
37 (16.6%) exact matches, in which:  
35 unique CDR3  
6 unique J



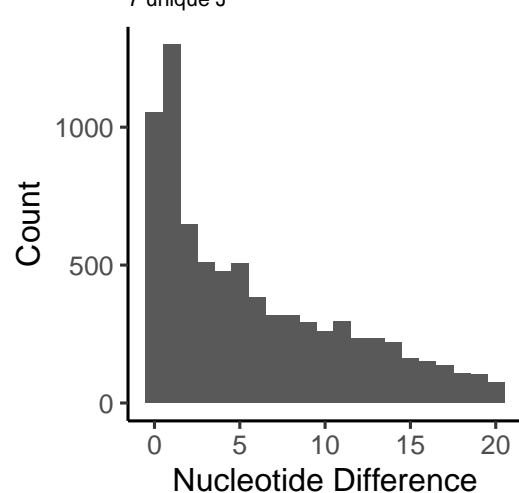
### IGHV2-5\*02

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



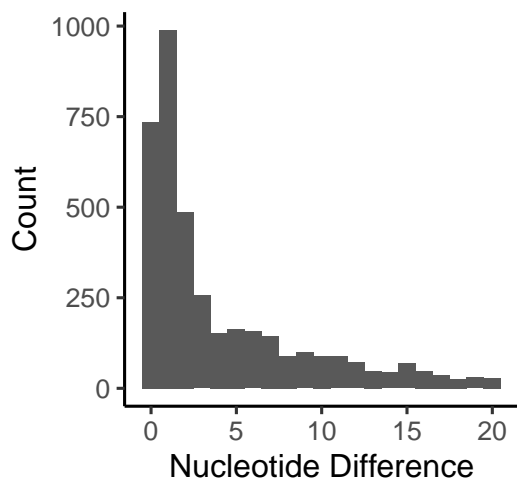
### IGHV3-9\*01

8042 sequences assigned  
1054 (13.1%) exact matches, in which:  
810 unique CDR3  
7 unique J



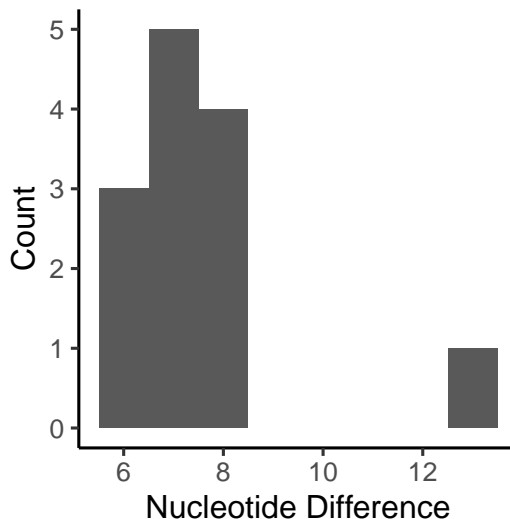
### IGHV1-69\*04\_09

4005 sequences assigned  
736 (18.4%) exact matches, in which:  
624 unique CDR3  
7 unique J



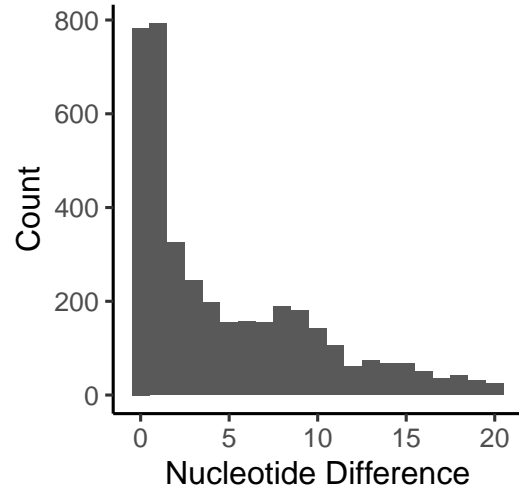
### IGHV2-70\*11\_15

13 sequences assigned  
No exact matches.



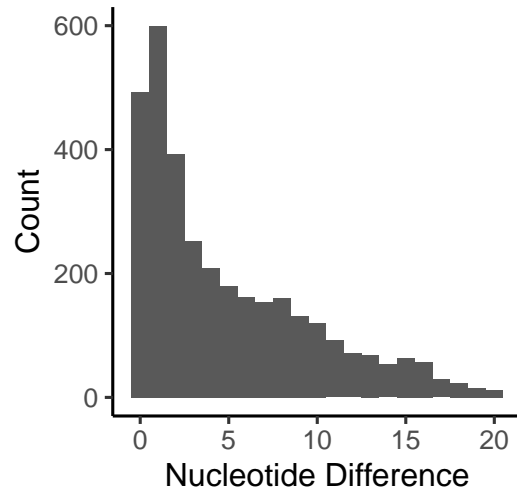
### IGHV3-11\*01

3971 sequences assigned  
783 (19.7%) exact matches, in which:  
627 unique CDR3  
7 unique J



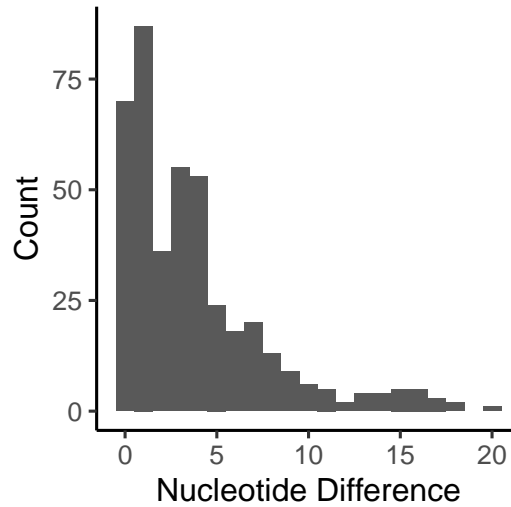
### IGHV3-11\*04

3388 sequences assigned  
493 (14.6%) exact matches, in which:  
400 unique CDR3  
7 unique J



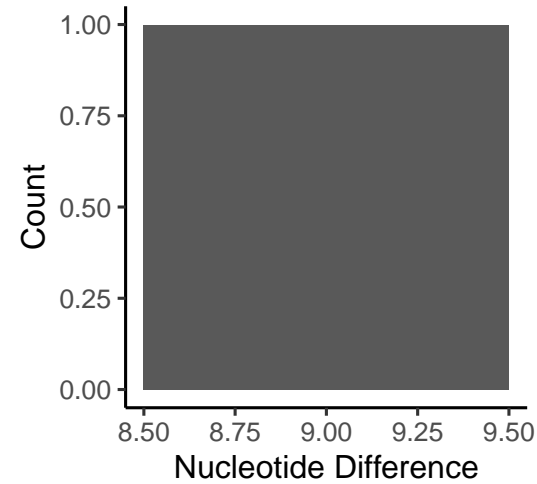
### IGHV3-20\*01\_02

422 sequences assigned  
70 (16.6%) exact matches, in which:  
58 unique CDR3  
5 unique J



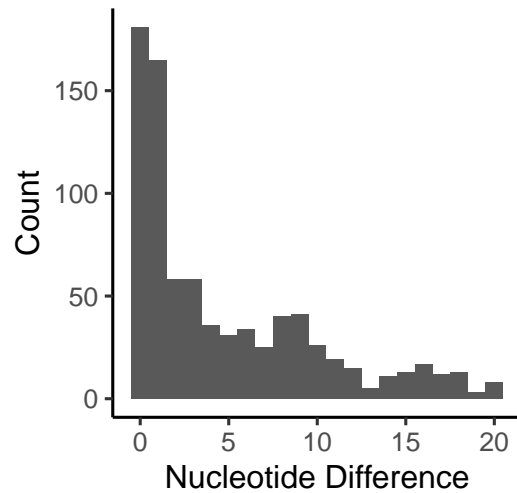
### IGHV3-22\*01\_02

1 sequences assigned  
No exact matches.



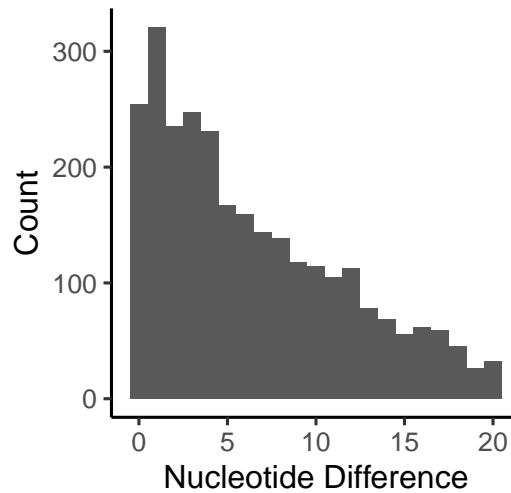
### IGHV3-13\*01

844 sequences assigned  
181 (21.4%) exact matches, in which:  
142 unique CDR3  
7 unique J



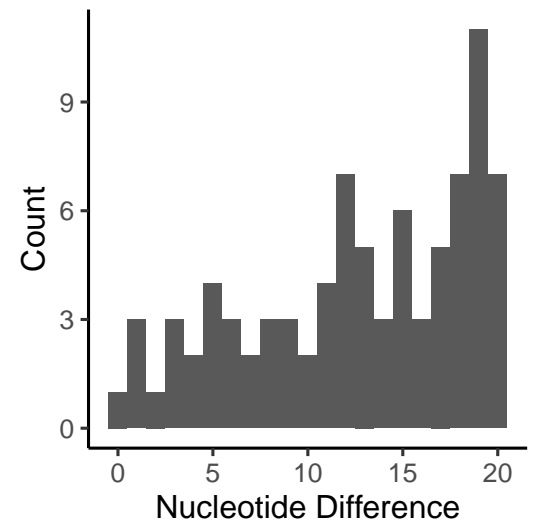
### IGHV3-20\*03\_04

2874 sequences assigned  
254 (8.8%) exact matches, in which:  
202 unique CDR3  
7 unique J



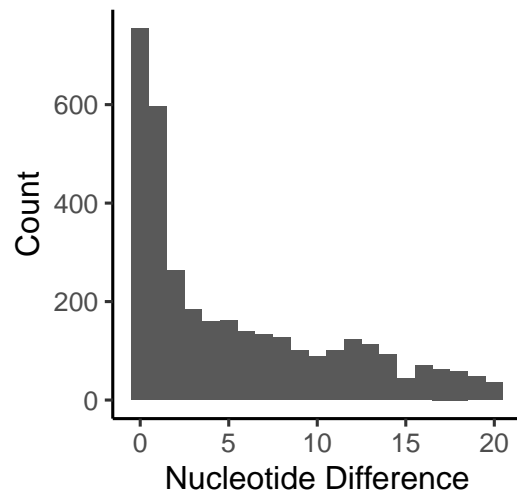
### IGHV3-30-5\*01

121 sequences assigned  
1 (0.8%) exact matches, in which:  
1 unique CDR3  
1 unique J



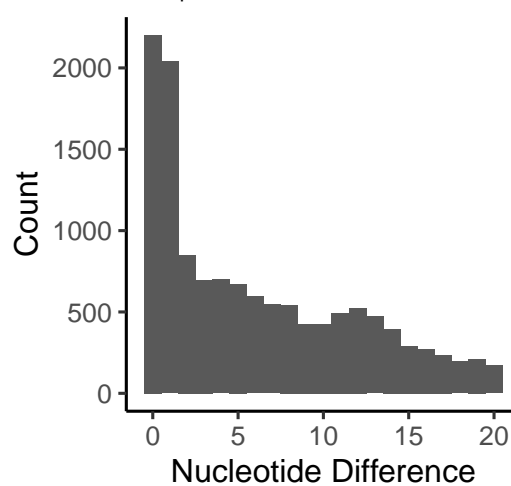
### IGHV3-15\*01\_02

3600 sequences assigned  
755 (21%) exact matches, in which:  
657 unique CDR3  
7 unique J



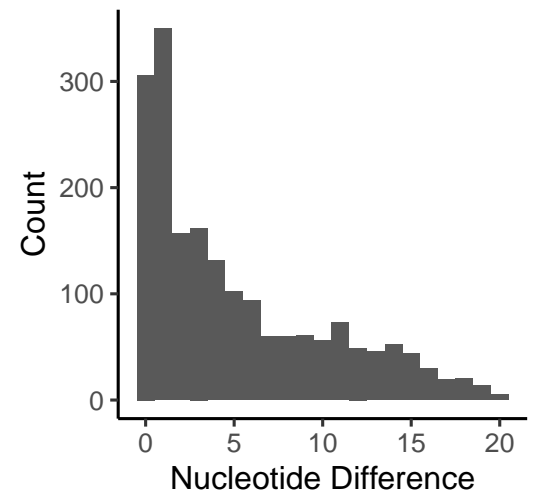
### IGHV3-21\*01\_02

13538 sequences assigned  
2202 (16.3%) exact matches, in which:  
1695 unique CDR3  
7 unique J



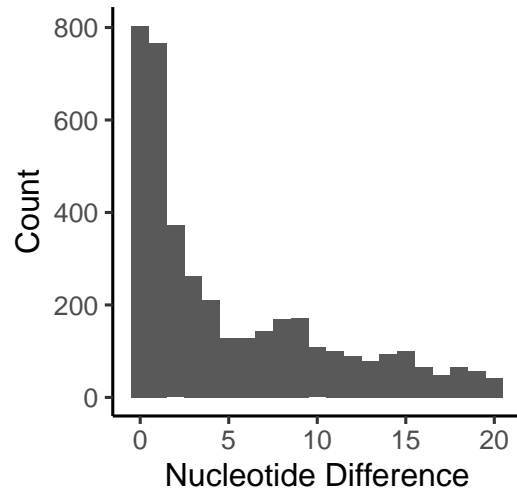
### IGHV3-30\*18\_C170G\_A1

1918 sequences assigned  
306 (16%) exact matches, in which:  
254 unique CDR3  
7 unique J



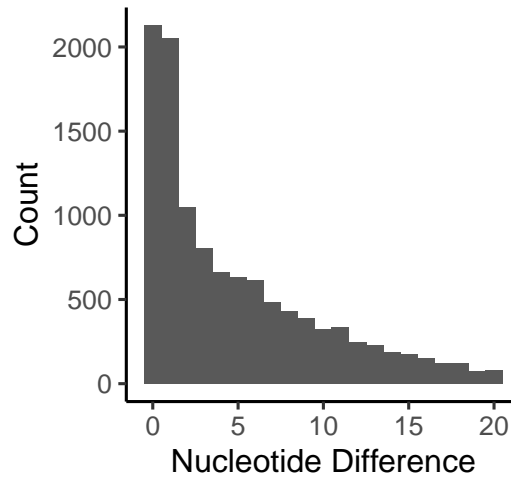
### IGHV3-33\*01

4113 sequences assigned  
804 (19.5%) exact matches, in which:  
555 unique CDR3  
7 unique J



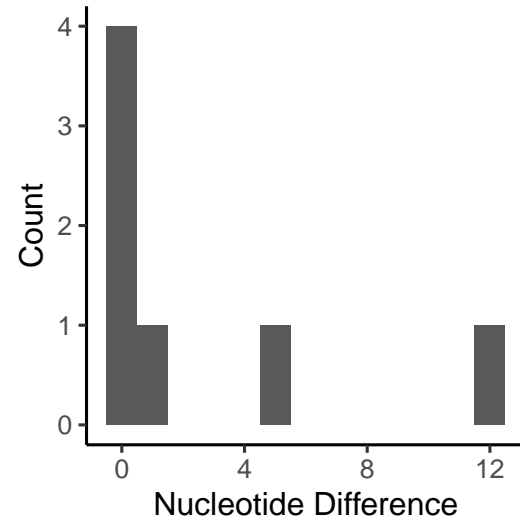
### IGHV3-48\*03

11547 sequences assigned  
2128 (18.4%) exact matches, in which:  
1733 unique CDR3  
7 unique J



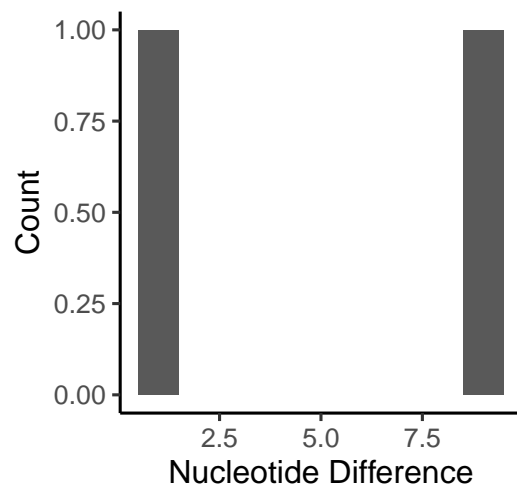
### IGHV3-52\*01\_03

7 sequences assigned  
4 (57.1%) exact matches, in which:  
4 unique CDR3  
3 unique J



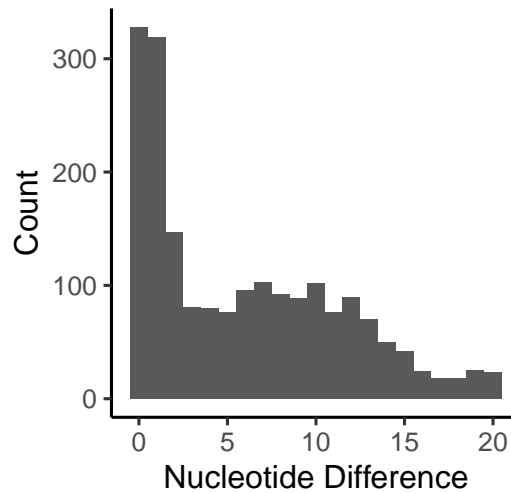
### IGHV3-38-3\*01

2 sequences assigned  
No exact matches.



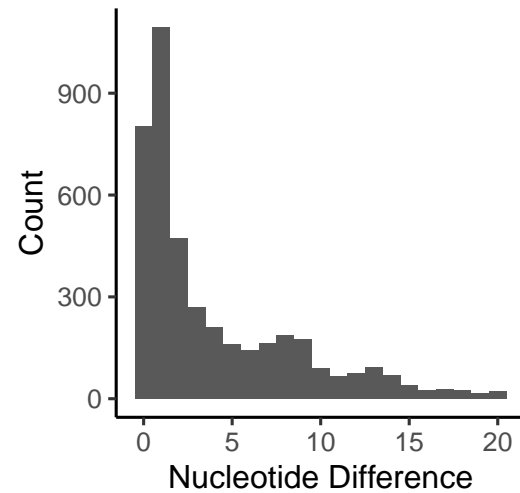
### IGHV3-49\*04

2048 sequences assigned  
328 (16%) exact matches, in which:  
260 unique CDR3  
7 unique J



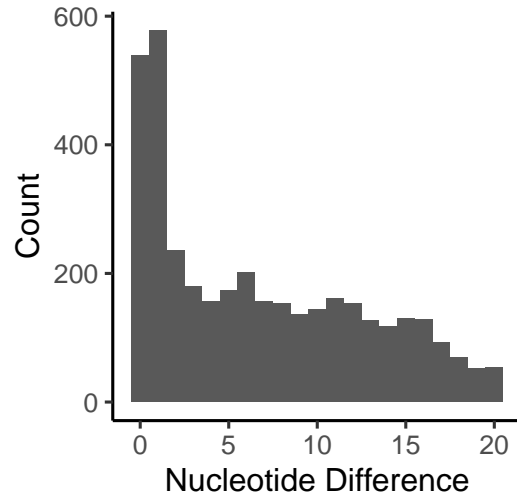
### IGHV3-53\*04

4349 sequences assigned  
803 (18.5%) exact matches, in which:  
577 unique CDR3  
7 unique J



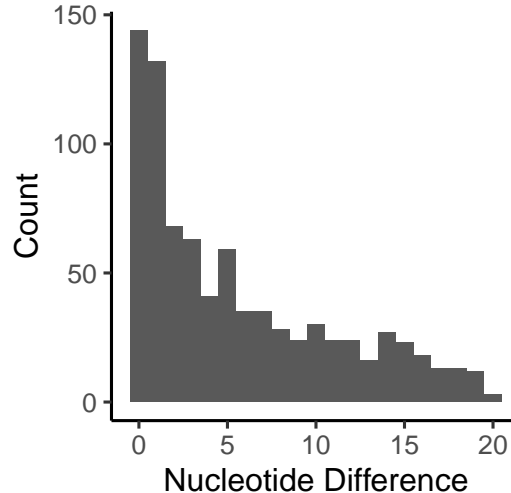
### IGHV3-43\*02

3929 sequences assigned  
539 (13.7%) exact matches, in which:  
422 unique CDR3  
6 unique J



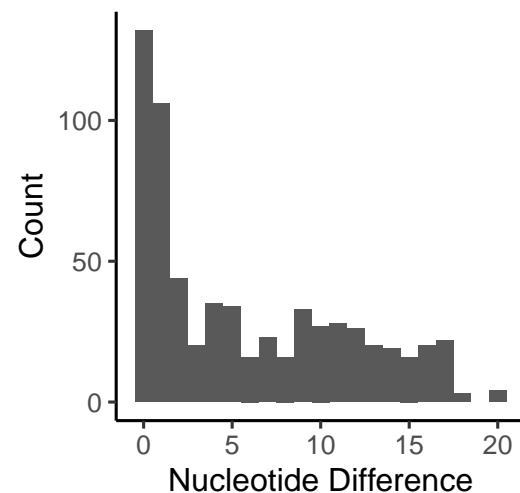
### IGHV3-49\*03\_05

857 sequences assigned  
144 (16.8%) exact matches, in which:  
115 unique CDR3  
7 unique J



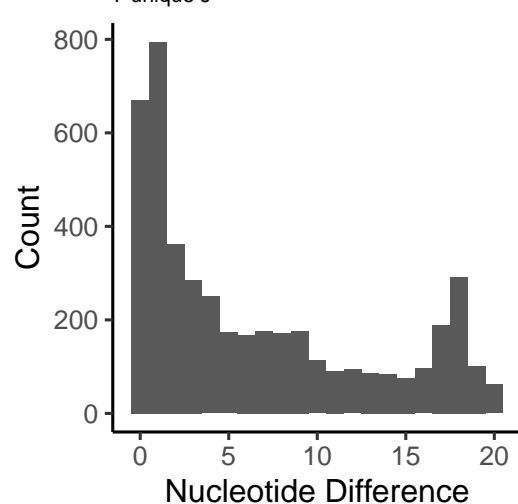
### IGHV3-64\*01

695 sequences assigned  
132 (19%) exact matches, in which:  
104 unique CDR3  
7 unique J



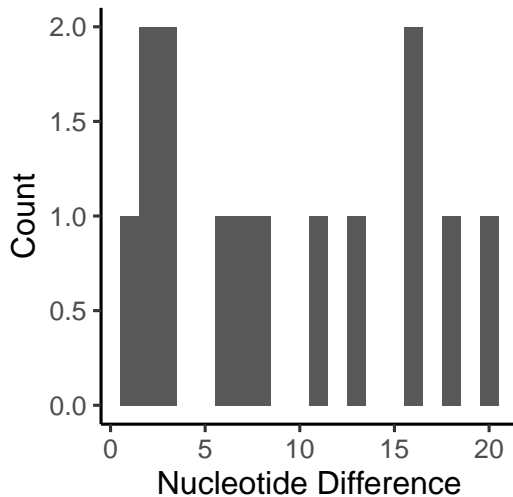
### IGHV3-66\*01

4744 sequences assigned  
670 (14.1%) exact matches, in which:  
515 unique CDR3  
7 unique J



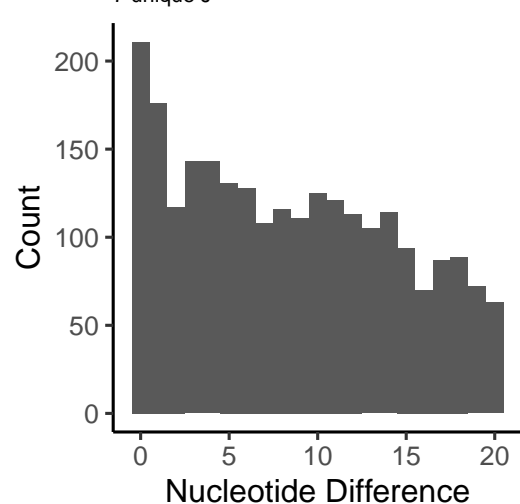
### IGHV3-69-1\*02

23 sequences assigned  
No exact matches.



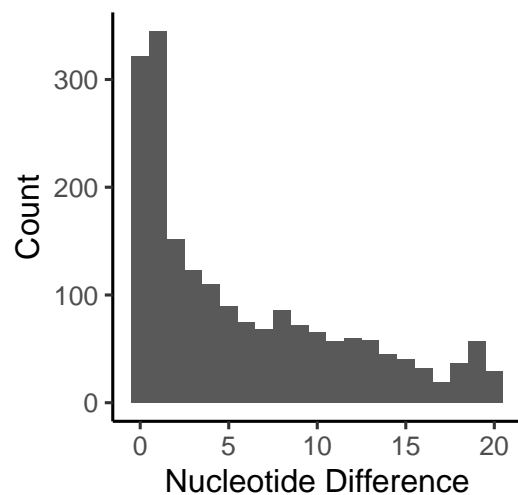
### IGHV3-74\*01\_02

2654 sequences assigned  
211 (8%) exact matches, in which:  
168 unique CDR3  
7 unique J



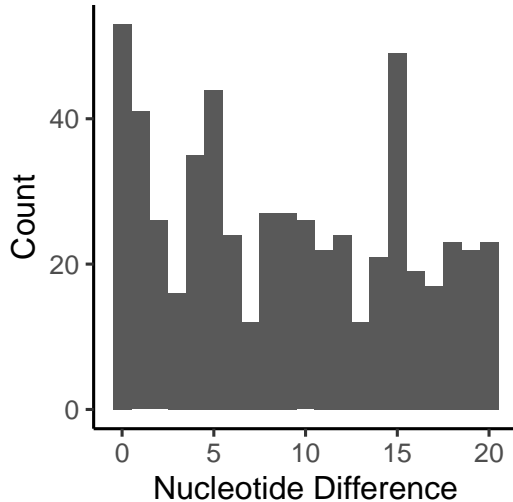
### IGHV3-66\*02

2049 sequences assigned  
322 (15.7%) exact matches, in which:  
250 unique CDR3  
7 unique J



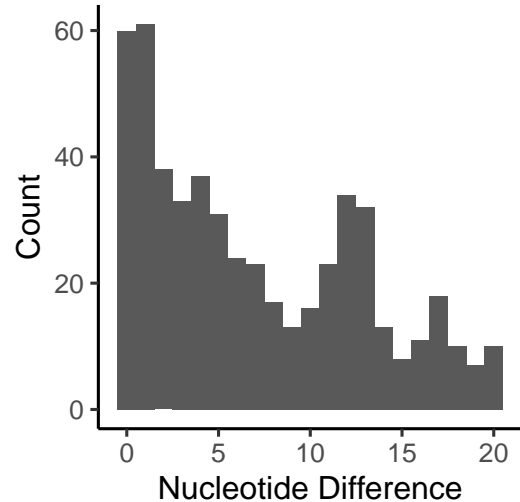
### IGHV3-72\*01

671 sequences assigned  
53 (7.9%) exact matches, in which:  
48 unique CDR3  
5 unique J



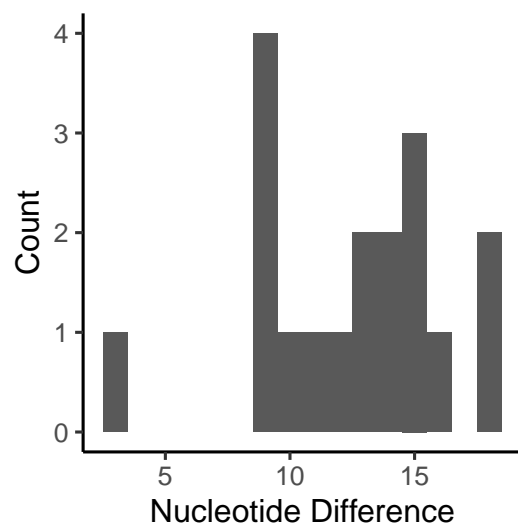
### IGHV3-43D\*04

532 sequences assigned  
60 (11.3%) exact matches, in which:  
47 unique CDR3  
6 unique J



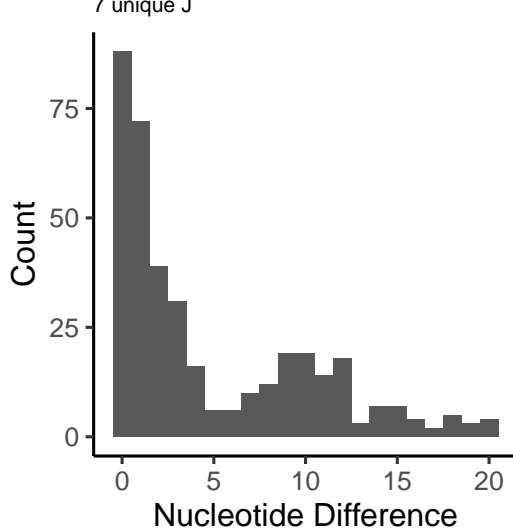
### IGHV3-69-1\*01

33 sequences assigned  
No exact matches.



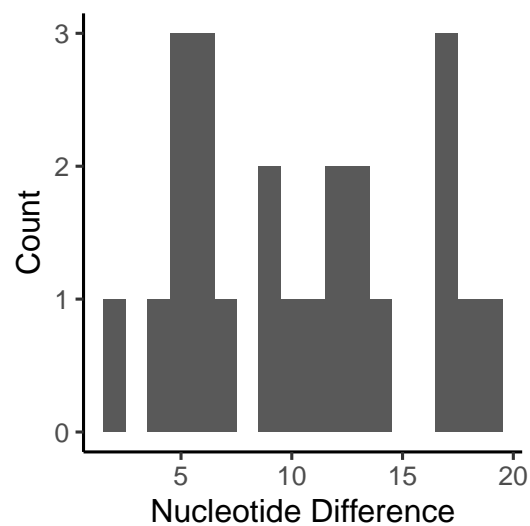
### IGHV3-73\*01\_02

410 sequences assigned  
88 (21.5%) exact matches, in which:  
73 unique CDR3  
7 unique J



### IGHV3-NL1\*01

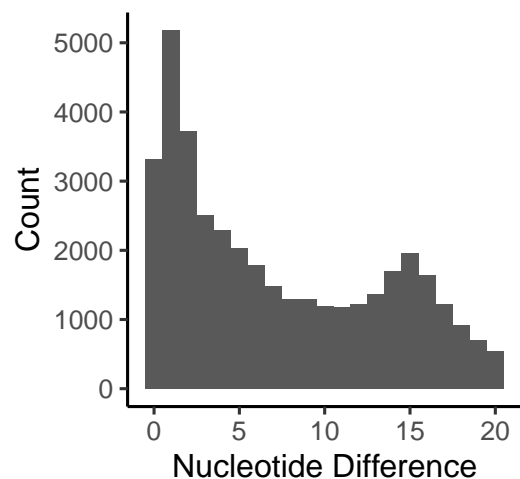
27 sequences assigned  
No exact matches.





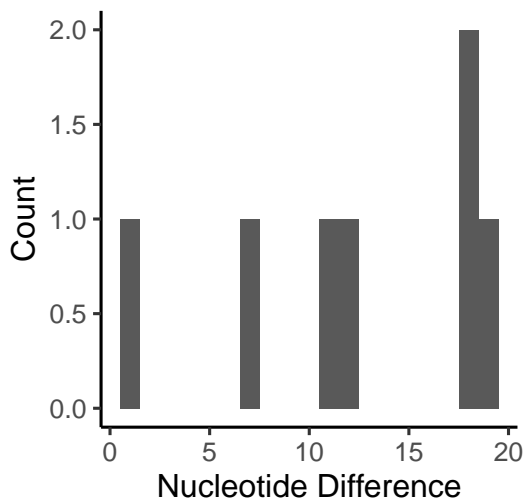
### IGHV4-4\*07

39896 sequences assigned  
3322 (8.3%) exact matches, in which:  
2237 unique CDR3  
7 unique J



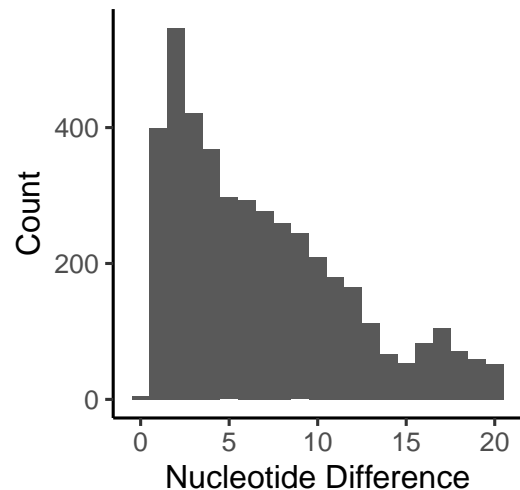
### IGHV4-30-4\*01

11 sequences assigned  
No exact matches.



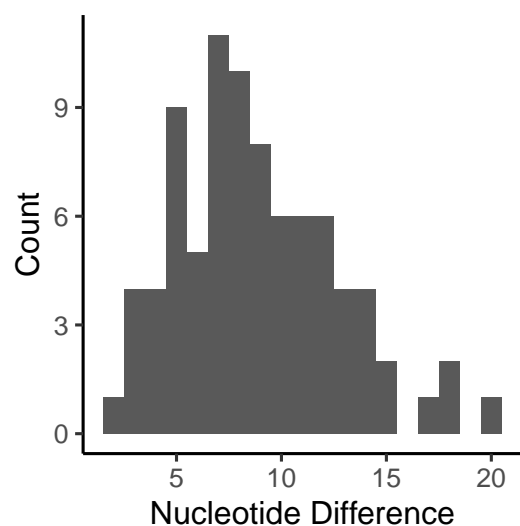
### IGHV4-31\*03\_04

4517 sequences assigned  
5 (0.1%) exact matches, in which:  
5 unique CDR3  
3 unique J



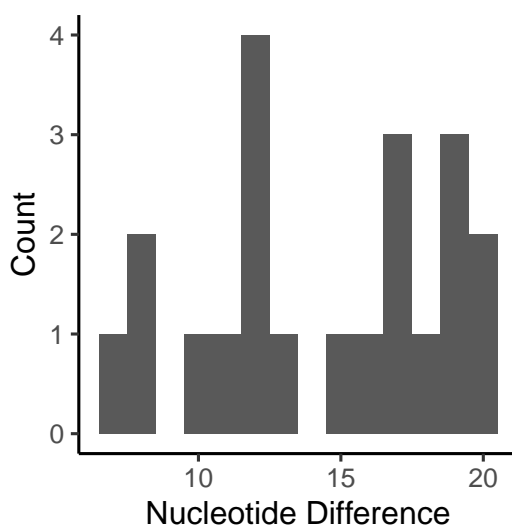
### IGHV4-28\*03

91 sequences assigned  
No exact matches.



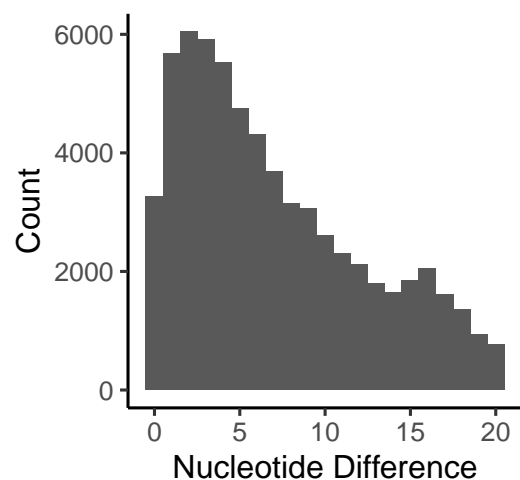
### IGHV4-30-2\*03

33 sequences assigned  
No exact matches.



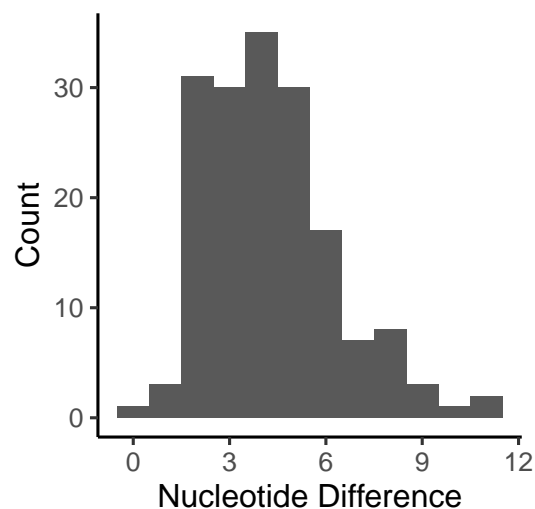
### IGHV4-34\*01\_02

66187 sequences assigned  
3257 (4.9%) exact matches, in which:  
2188 unique CDR3  
7 unique J



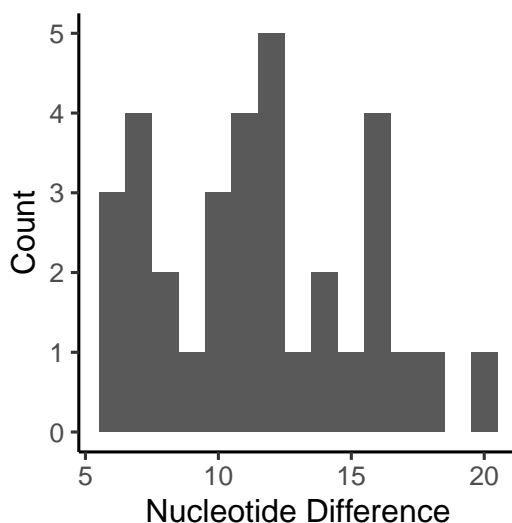
### IGHV4-28\*02\_05

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



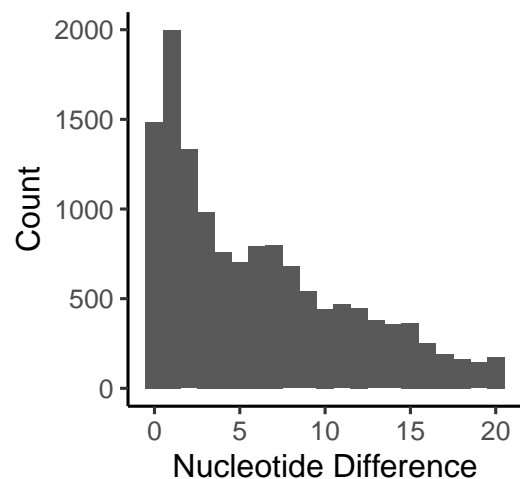
### IGHV4-30-4\*08

34 sequences assigned  
No exact matches.



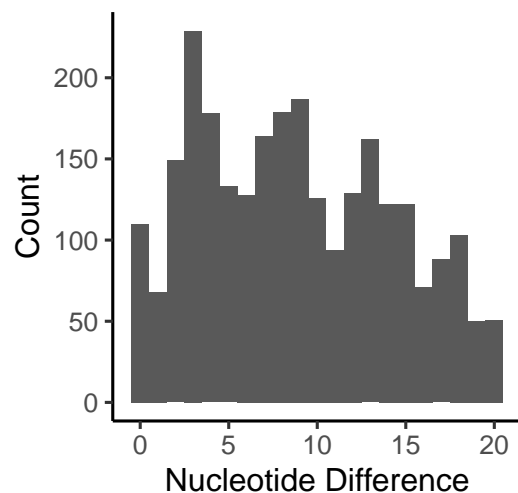
### IGHV4-38-2\*01

14088 sequences assigned  
1484 (10.5%) exact matches, in which:  
1074 unique CDR3  
7 unique J



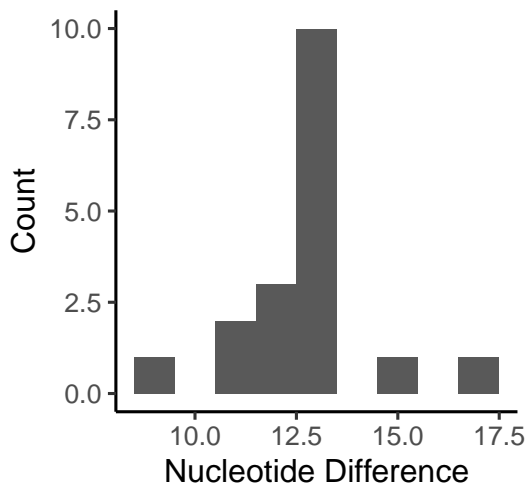
### IGHV4-38-2\*02

2941 sequences assigned  
110 (3.7%) exact matches, in which:  
103 unique CDR3  
7 unique J



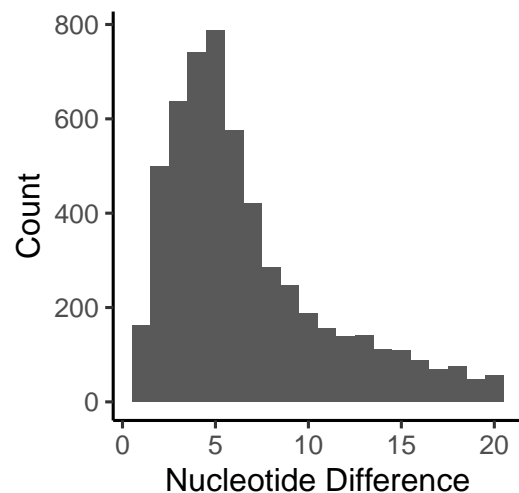
### IGHV4-55\*02\_04\_08

20 sequences assigned  
No exact matches.



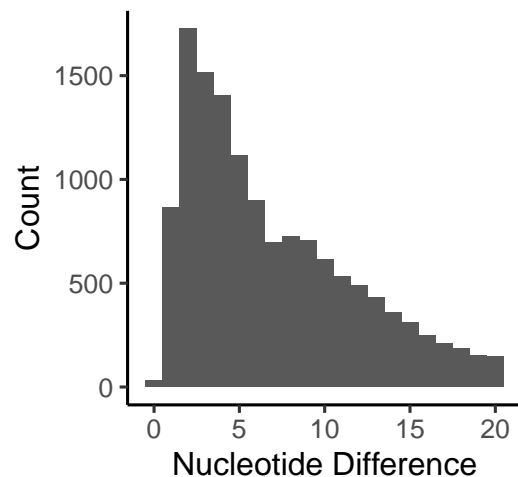
### IGHV4-61\*01

5663 sequences assigned  
No exact matches.



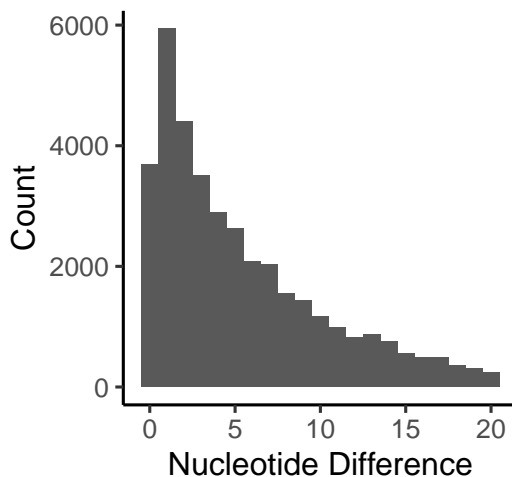
### IGHV4-39\*07

13847 sequences assigned  
32 (0.2%) exact matches, in which:  
30 unique CDR3  
6 unique J



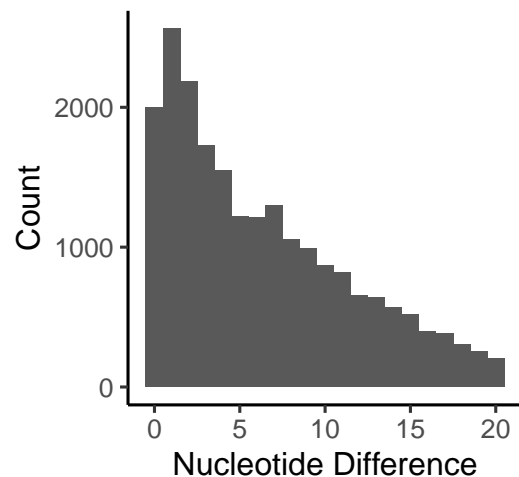
### IGHV4-59\*08

38220 sequences assigned  
3682 (9.6%) exact matches, in which:  
2605 unique CDR3  
7 unique J



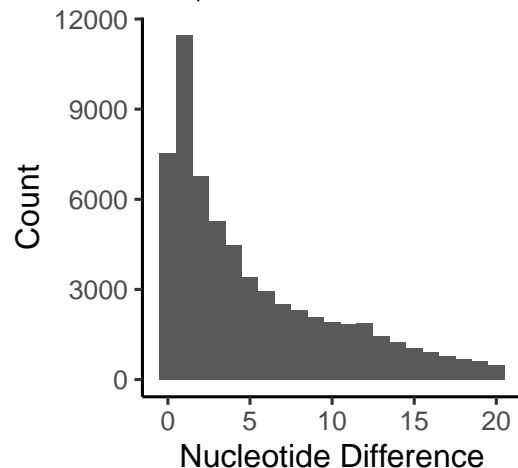
### IGHV4-61\*02

22215 sequences assigned  
2000 (9%) exact matches, in which:  
1471 unique CDR3  
7 unique J



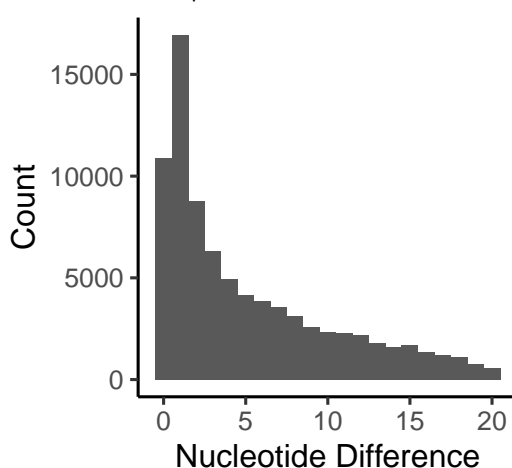
### IGHV4-39\*01\_05

63874 sequences assigned  
7545 (11.8%) exact matches, in which:  
4582 unique CDR3  
7 unique J



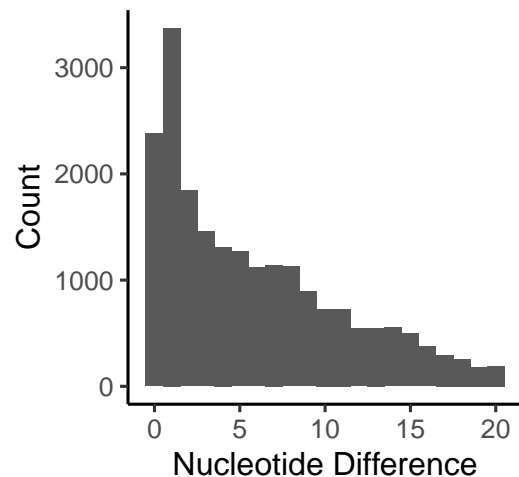
### IGHV4-59\*01\_07

84387 sequences assigned  
10864 (12.9%) exact matches, in which:  
6936 unique CDR3  
7 unique J



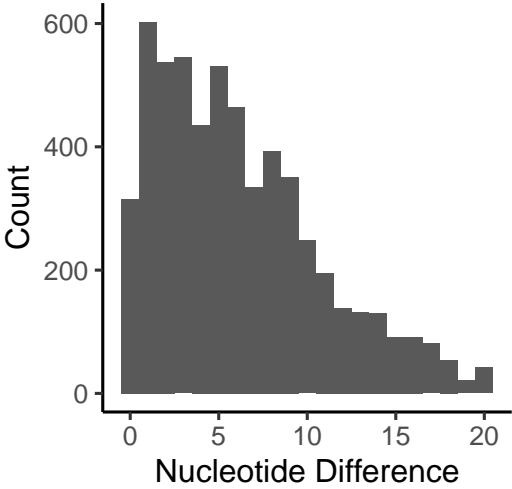
### IGHV5-51\*01\_03

21655 sequences assigned  
2379 (11%) exact matches, in which:  
1699 unique CDR3  
7 unique J

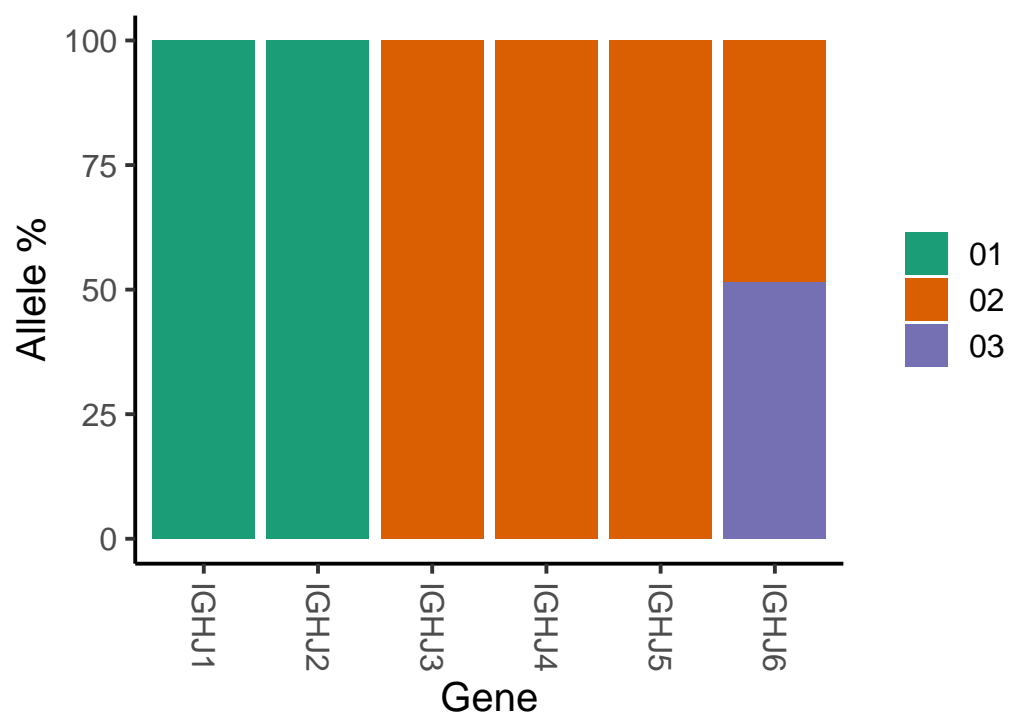


# IGHV6-1\*01\_02

5955 sequences assigned  
316 (5.3%) exact matches, in which:  
234 unique CDR3  
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage

