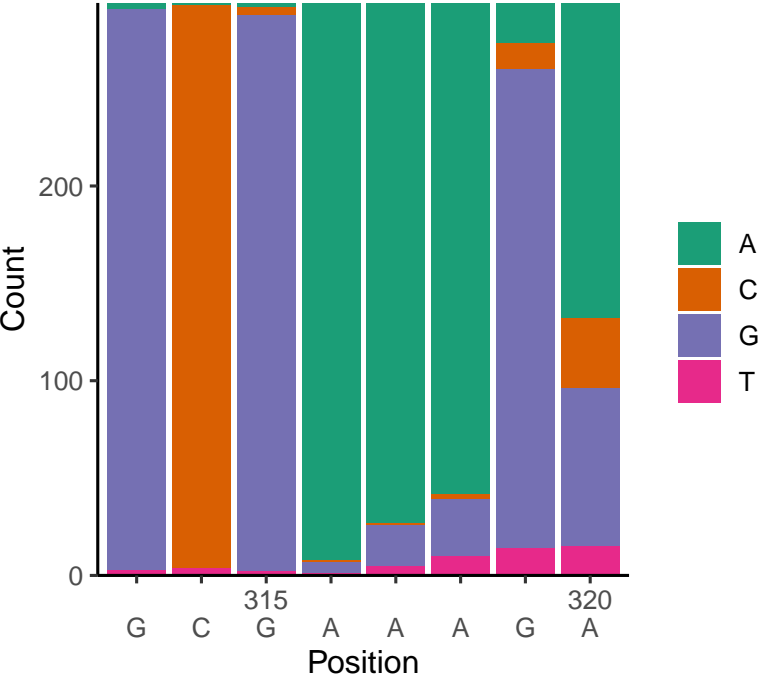
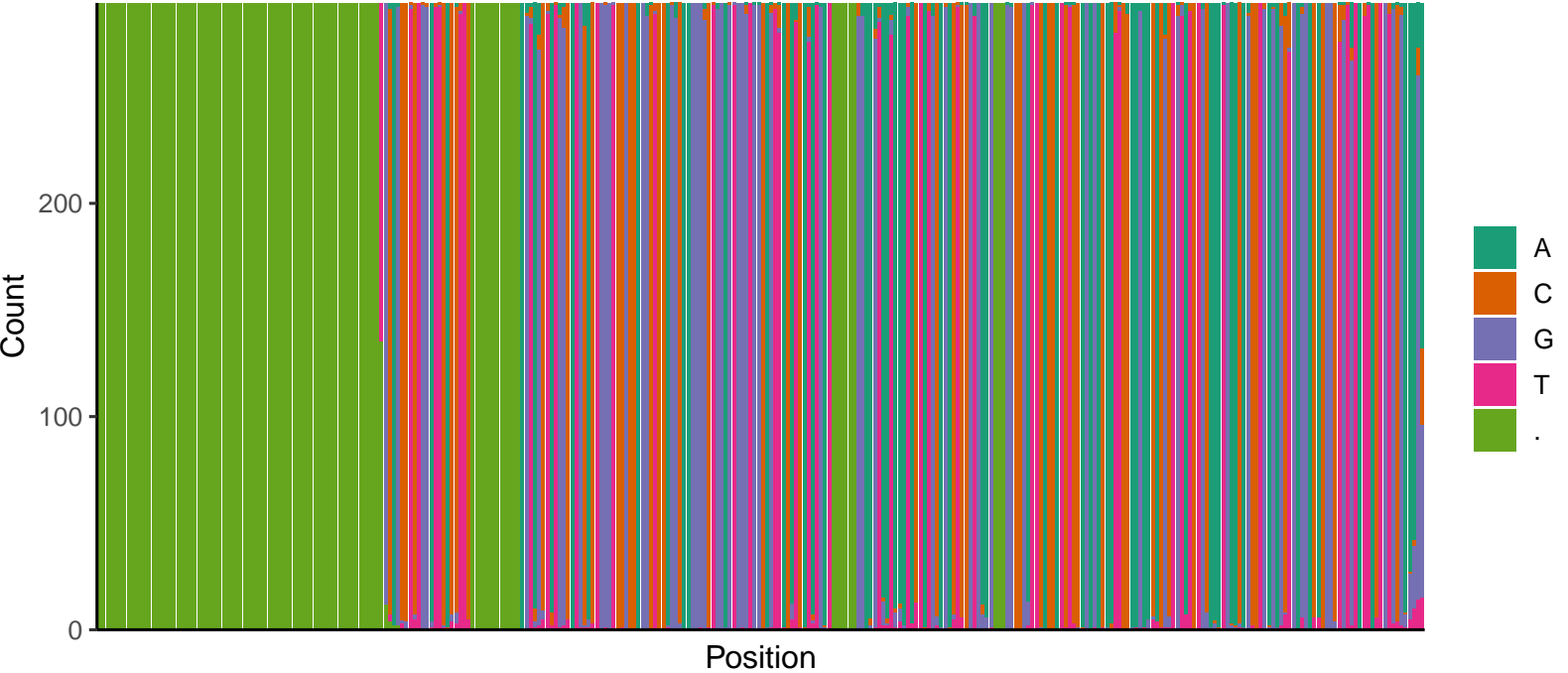


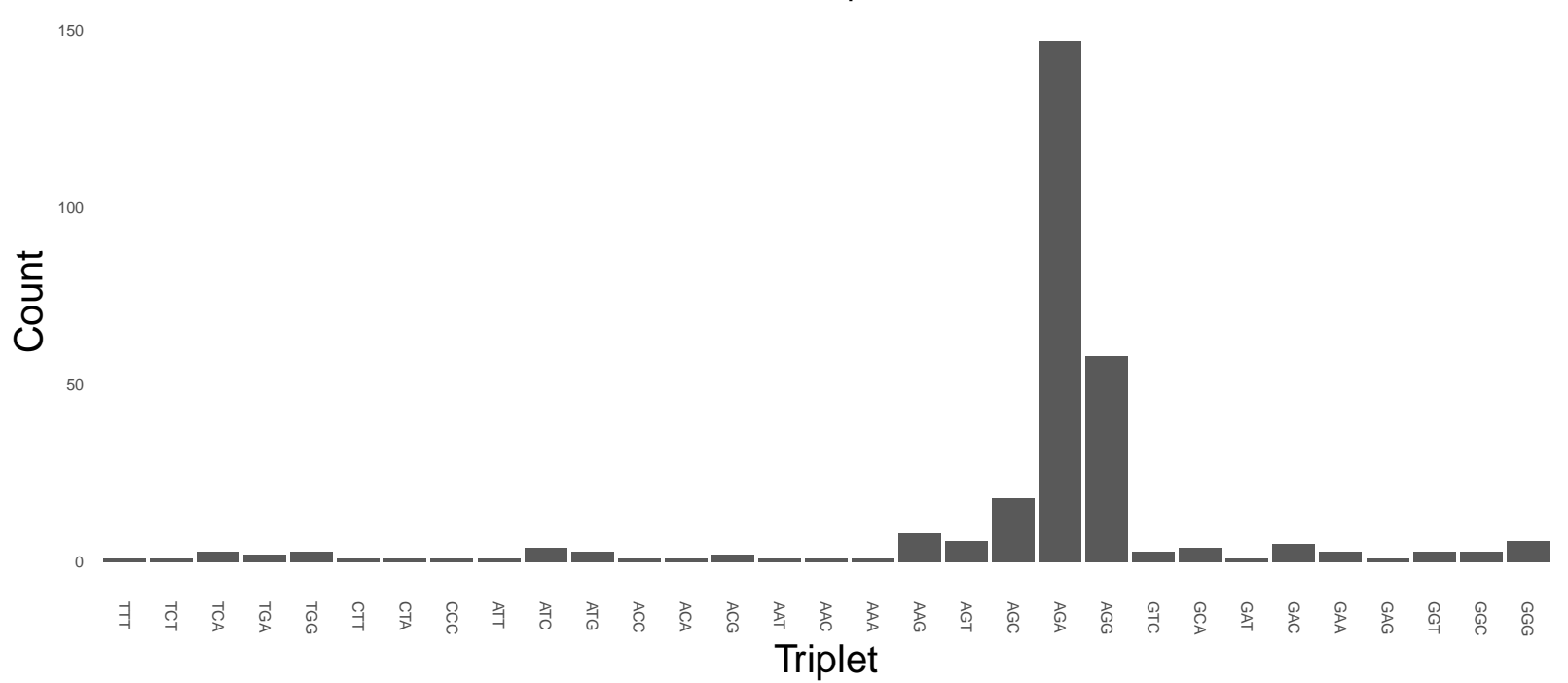
Gene IGHV3-30\*18\_T167C



Gene IGHV3-30\*18\_T167C

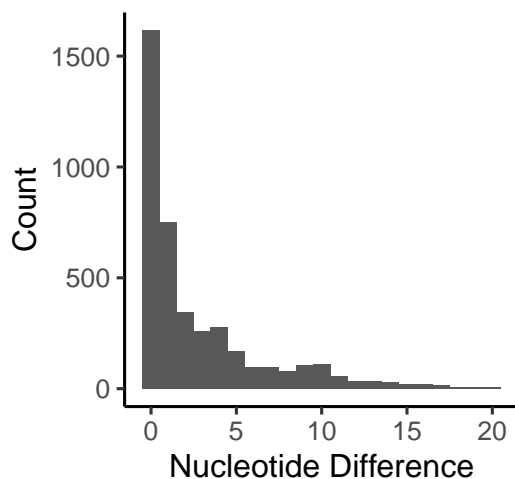


IGHV3-30\*18\_T167C- Final 3 nucleotides as a triplet



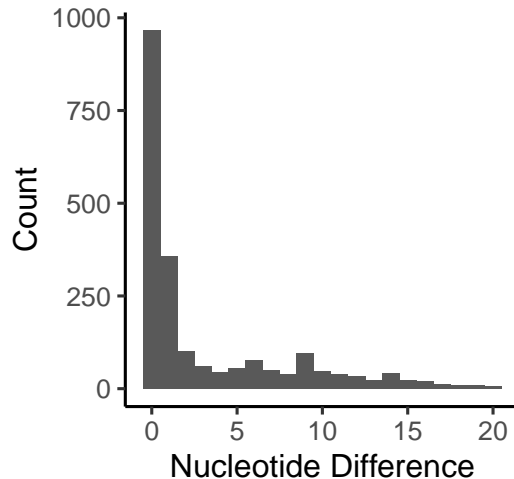
### IGHV1-2\*02

4187 sequences assigned  
1616 (38.6%) exact matches, in which:  
1516 unique CDR3  
7 unique J



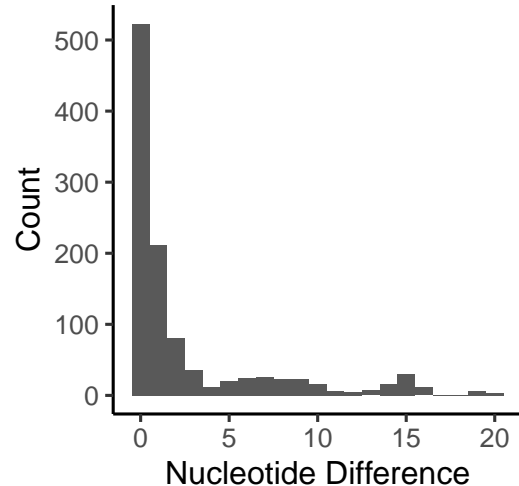
### IGHV1-18\*01

2148 sequences assigned  
966 (45%) exact matches, in which:  
916 unique CDR3  
7 unique J



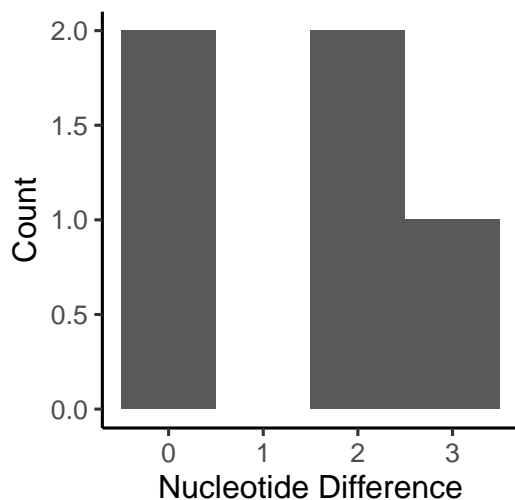
### IGHV1-46\*01

1094 sequences assigned  
523 (47.8%) exact matches, in which:  
503 unique CDR3  
7 unique J



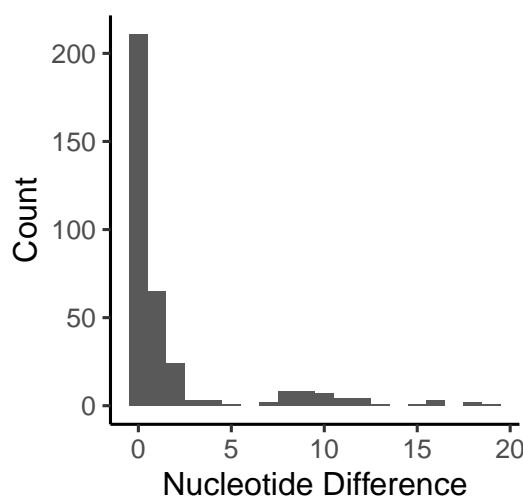
### IGHV1-3\*02

5 sequences assigned  
2 (40%) exact matches, in which:  
2 unique CDR3  
1 unique J



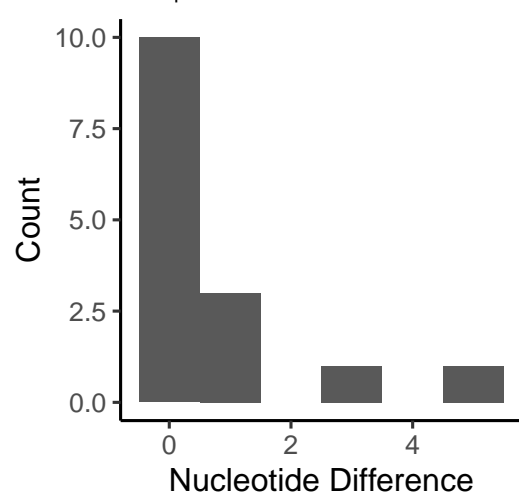
### IGHV1-24\*01

348 sequences assigned  
211 (60.6%) exact matches, in which:  
202 unique CDR3  
7 unique J



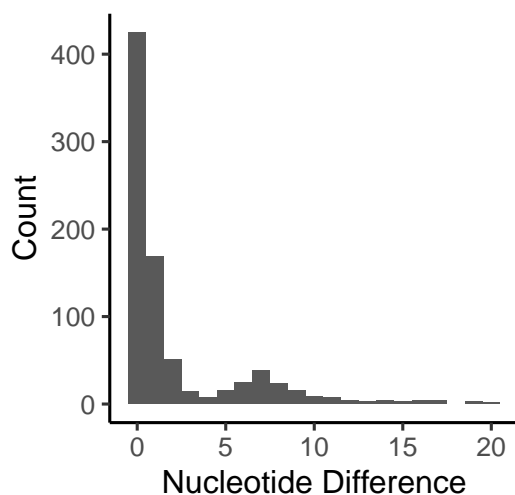
### IGHV1-58\*02

15 sequences assigned  
10 (66.7%) exact matches, in which:  
9 unique CDR3  
4 unique J



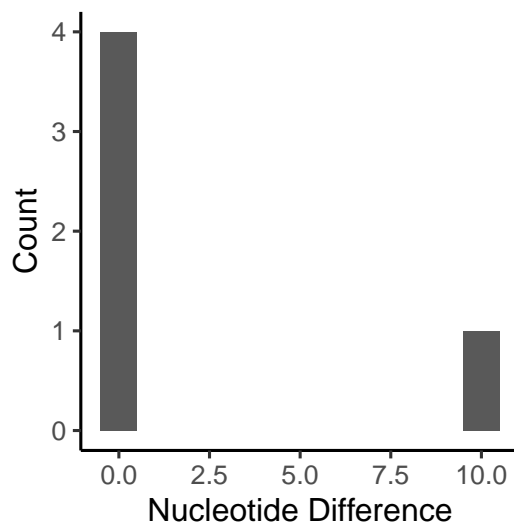
### IGHV1-8\*01

829 sequences assigned  
425 (51.3%) exact matches, in which:  
408 unique CDR3  
7 unique J



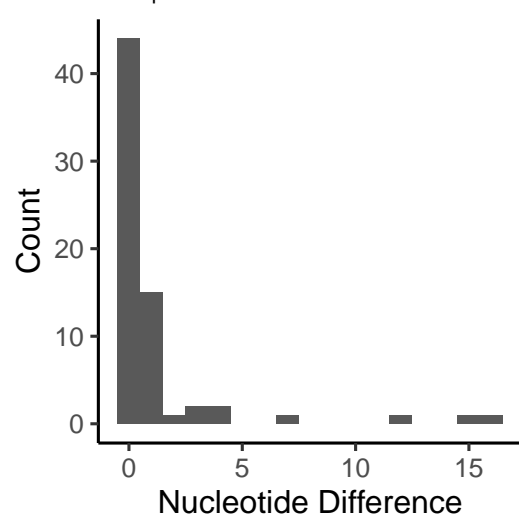
### IGHV1-45\*02

5 sequences assigned  
4 (80%) exact matches, in which:  
4 unique CDR3  
2 unique J



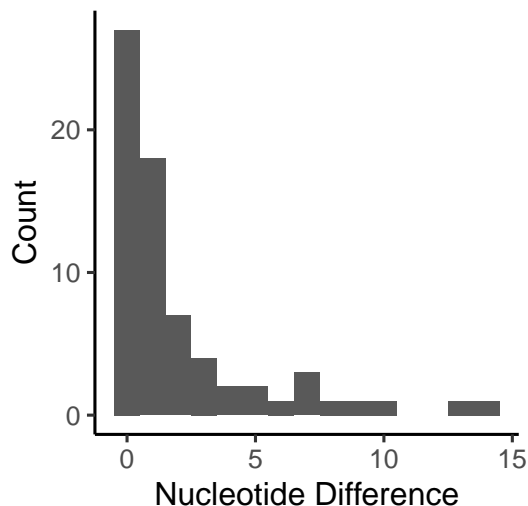
### IGHV1-58\*01\_03

70 sequences assigned  
44 (62.9%) exact matches, in which:  
43 unique CDR3  
4 unique J



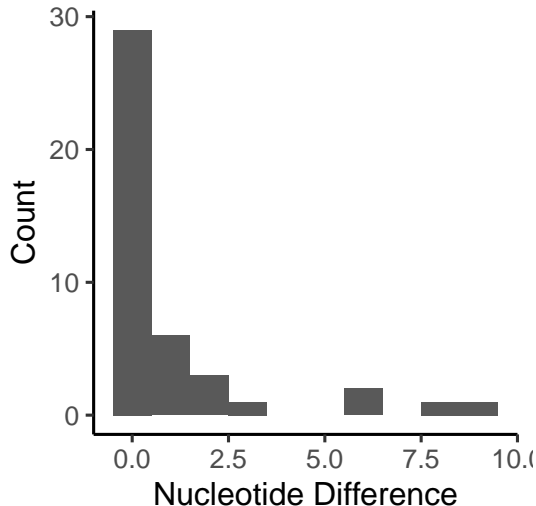
### IGHV2-5\*01

69 sequences assigned  
27 (39.1%) exact matches, in which:  
27 unique CDR3  
5 unique J



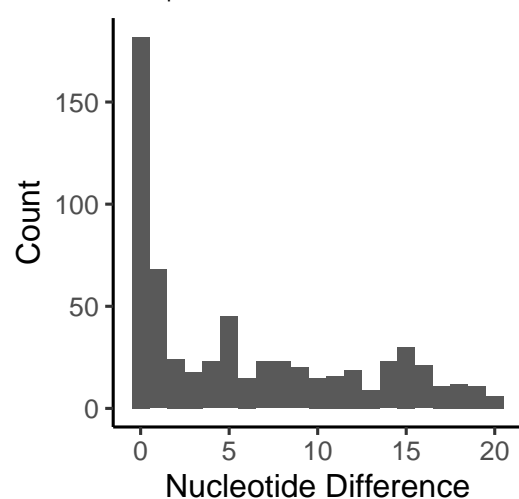
### IGHV2-70\*01

43 sequences assigned  
29 (67.4%) exact matches, in which:  
27 unique CDR3  
6 unique J



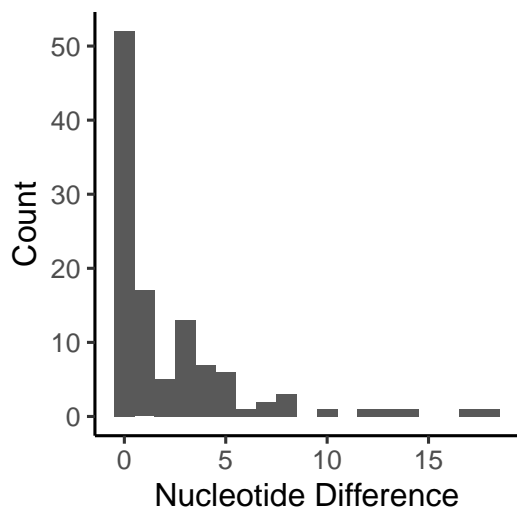
### IGHV3-7\*04

631 sequences assigned  
182 (28.8%) exact matches, in which:  
136 unique CDR3  
7 unique J



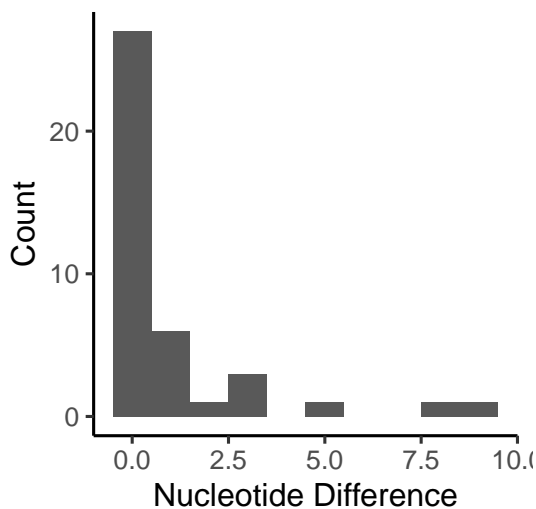
### IGHV2-5\*02

114 sequences assigned  
52 (45.6%) exact matches, in which:  
52 unique CDR3  
4 unique J



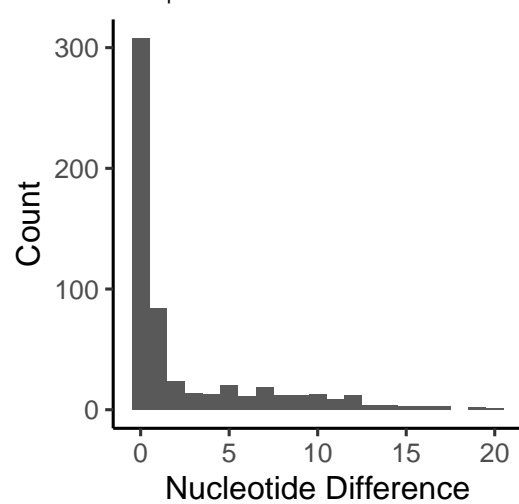
### IGHV2-70\*11\_15

40 sequences assigned  
27 (67.5%) exact matches, in which:  
26 unique CDR3  
4 unique J



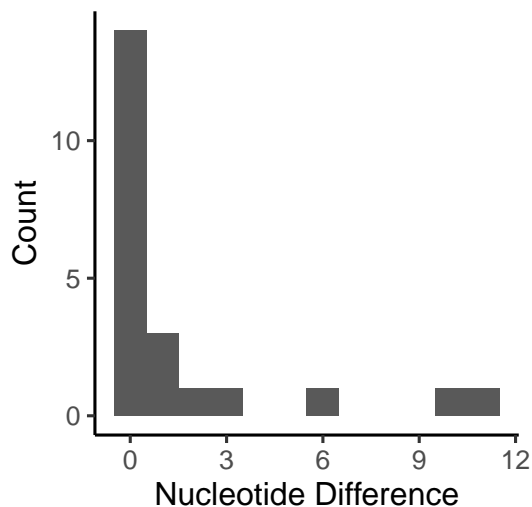
### IGHV3-9\*01

577 sequences assigned  
308 (53.4%) exact matches, in which:  
254 unique CDR3  
5 unique J



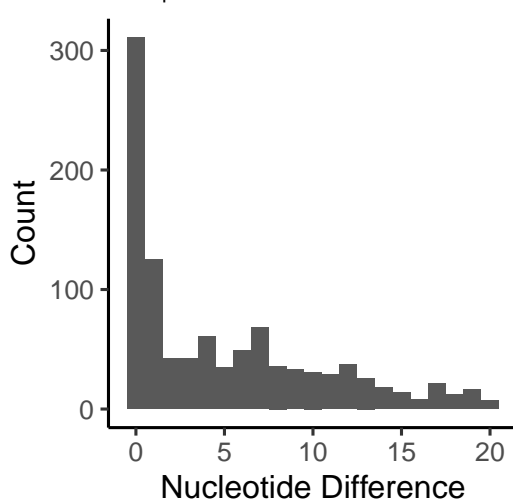
### IGHV2-26\*01

22 sequences assigned  
14 (63.6%) exact matches, in which:  
14 unique CDR3  
5 unique J



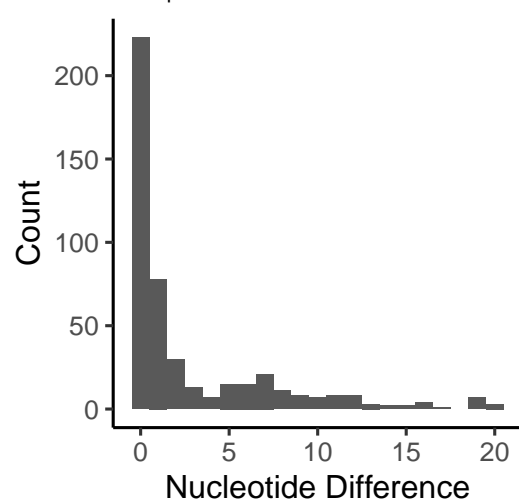
### IGHV3-7\*01

1059 sequences assigned  
311 (29.4%) exact matches, in which:  
249 unique CDR3  
7 unique J



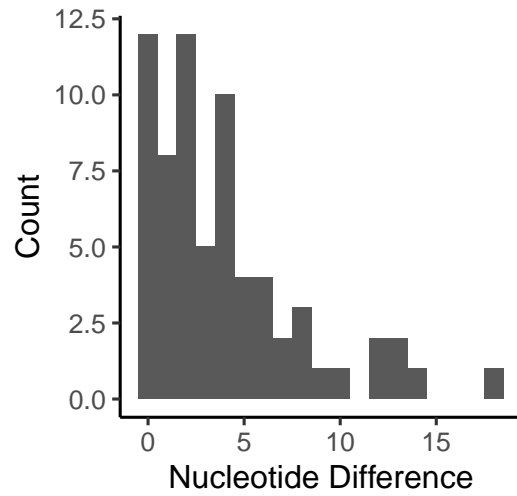
### IGHV3-11\*01

470 sequences assigned  
223 (47.4%) exact matches, in which:  
175 unique CDR3  
7 unique J



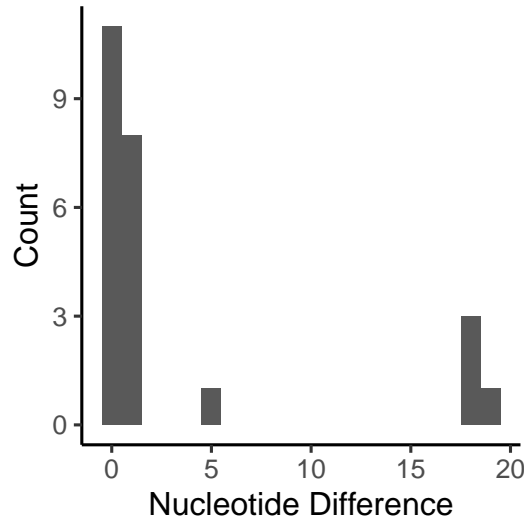
### IGHV3-11\*04

69 sequences assigned  
12 (17.4%) exact matches, in which:  
12 unique CDR3  
3 unique J



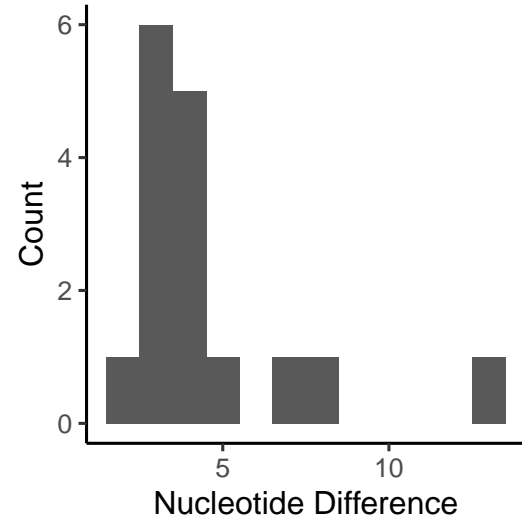
### IGHV3-13\*05

24 sequences assigned  
11 (45.8%) exact matches, in which:  
9 unique CDR3  
5 unique J



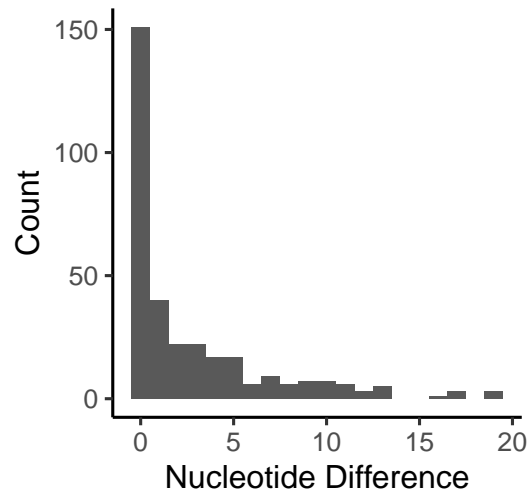
### IGHV3-20\*03\_04

16 sequences assigned  
No exact matches.



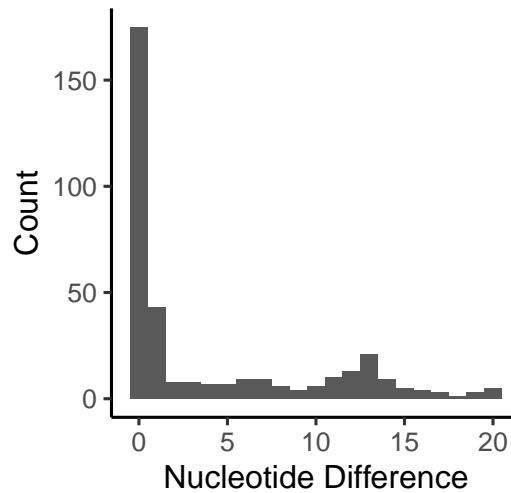
### IGHV3-11\*06

332 sequences assigned  
151 (45.5%) exact matches, in which:  
117 unique CDR3  
6 unique J



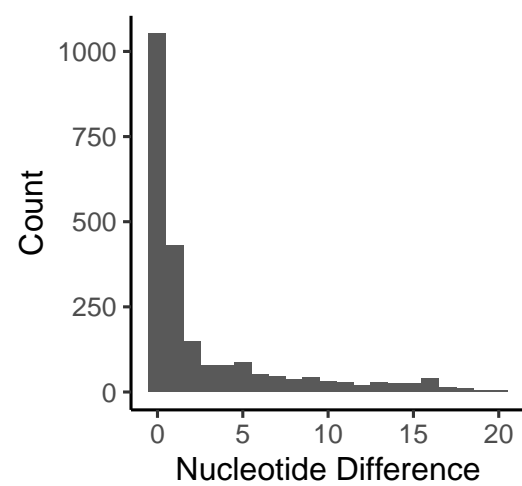
### IGHV3-15\*01\_02

384 sequences assigned  
175 (45.6%) exact matches, in which:  
155 unique CDR3  
7 unique J



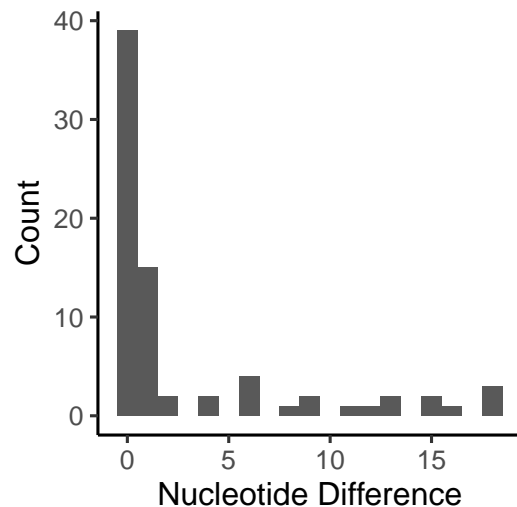
### IGHV3-21\*01\_02

2312 sequences assigned  
1052 (45.5%) exact matches, in which:  
812 unique CDR3  
7 unique J



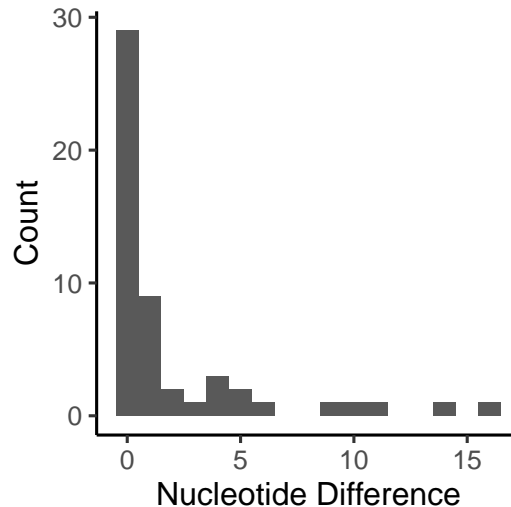
### IGHV3-13\*01

76 sequences assigned  
39 (51.3%) exact matches, in which:  
32 unique CDR3  
5 unique J



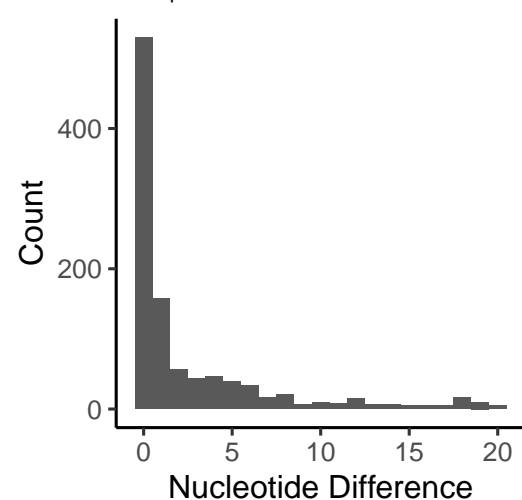
### IGHV3-20\*01\_02

53 sequences assigned  
29 (54.7%) exact matches, in which:  
23 unique CDR3  
6 unique J



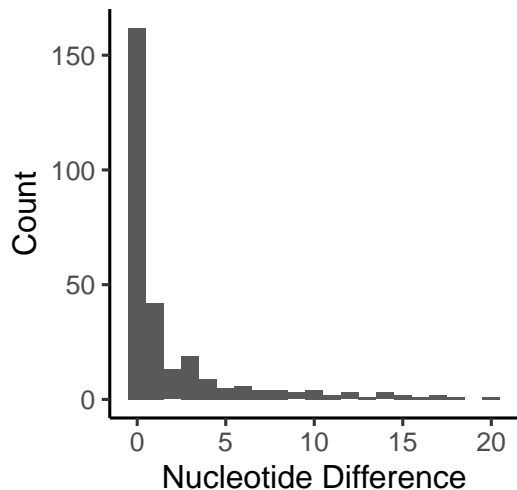
### IGHV3-30-3\*01

1162 sequences assigned  
530 (45.6%) exact matches, in which:  
421 unique CDR3  
7 unique J



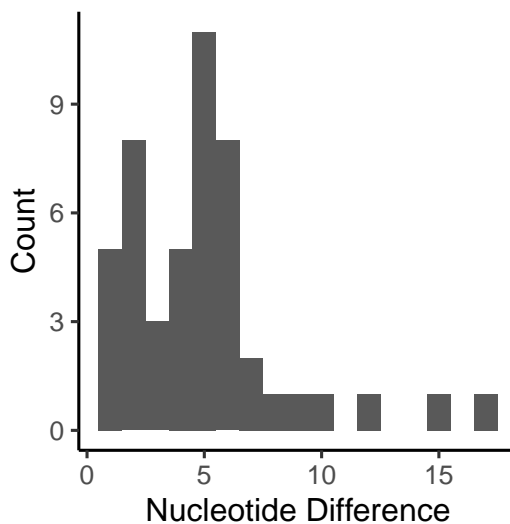
### IGHV3-30\*18\_T167C

294 sequences assigned  
162 (55.1%) exact matches, in which:  
133 unique CDR3  
5 unique J



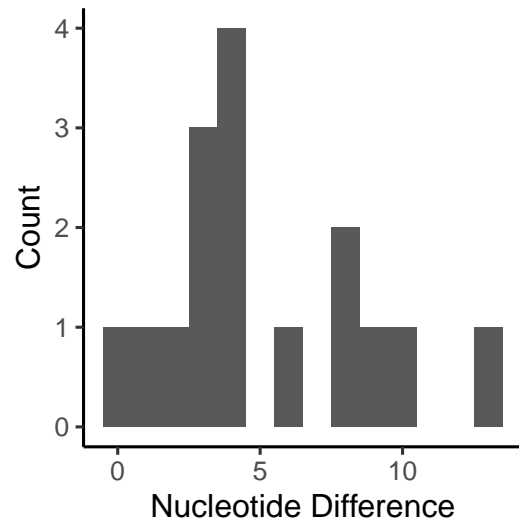
### IGHV3-33\*05

49 sequences assigned  
No exact matches.



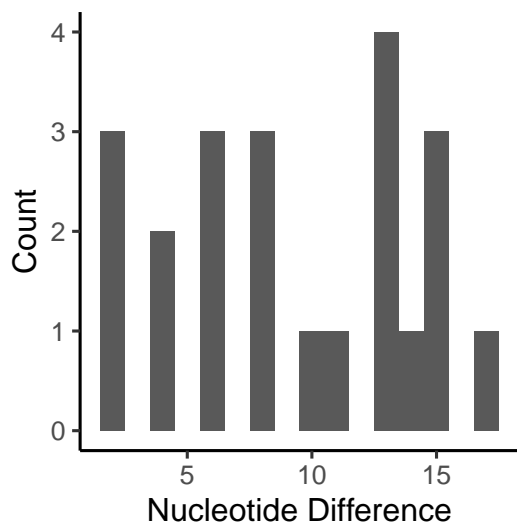
### IGHV3-38-3\*01

16 sequences assigned  
1 (6.2%) exact matches, in which:  
1 unique CDR3  
1 unique J



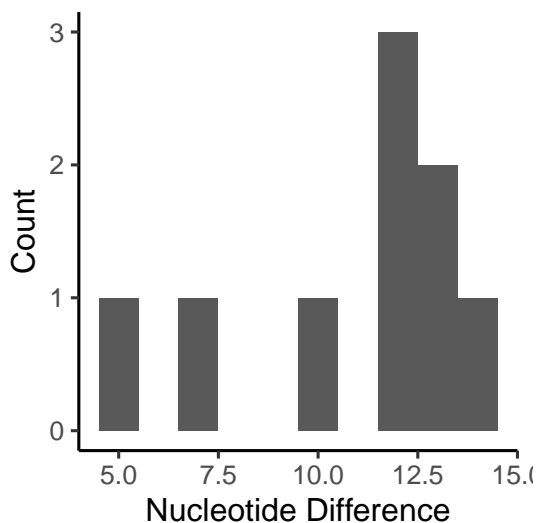
### IGHV3-33\*01

22 sequences assigned  
No exact matches.



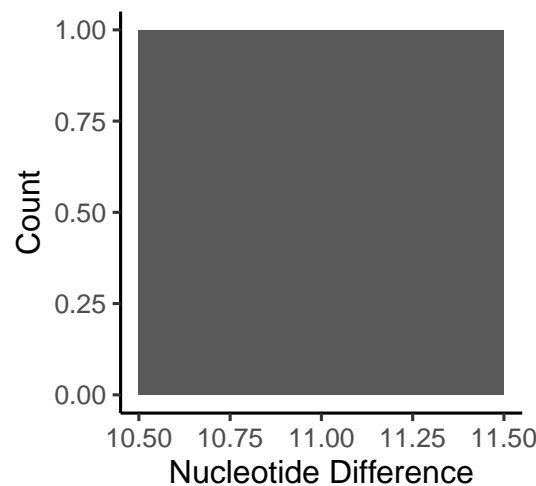
### IGHV3-33\*06

9 sequences assigned  
No exact matches.



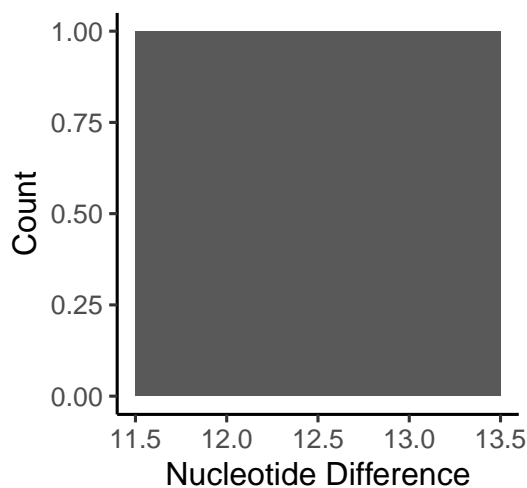
### IGHV3-38\*03

1 sequences assigned  
No exact matches.



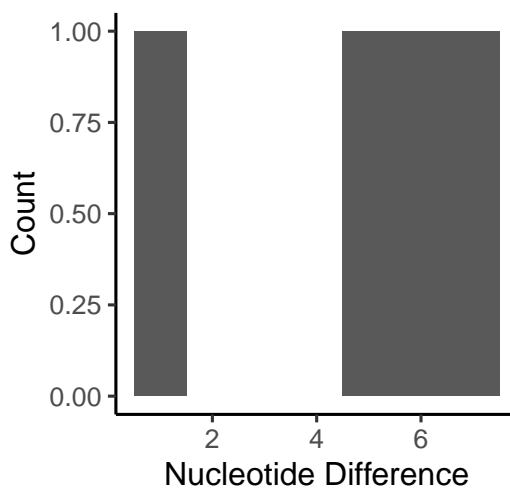
### IGHV3-33\*03

3 sequences assigned  
No exact matches.



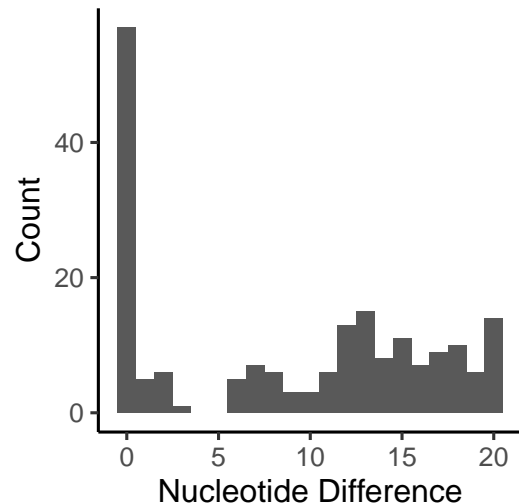
### IGHV3-35\*01

4 sequences assigned  
No exact matches.



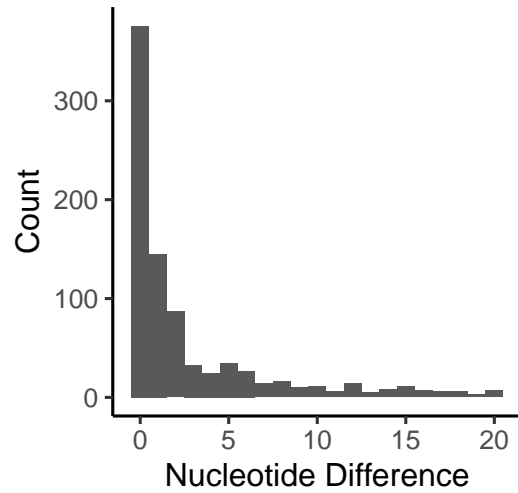
### IGHV3-43\*01

231 sequences assigned  
57 (24.7%) exact matches, in which:  
45 unique CDR3  
4 unique J



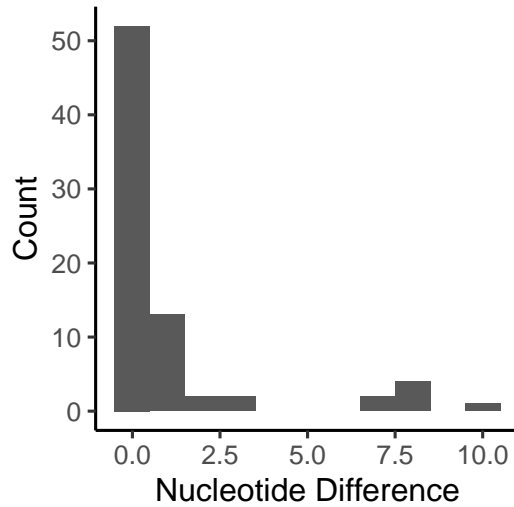
### IGHV3-48\*02

872 sequences assigned  
376 (43.1%) exact matches, in which:  
289 unique CDR3  
6 unique J



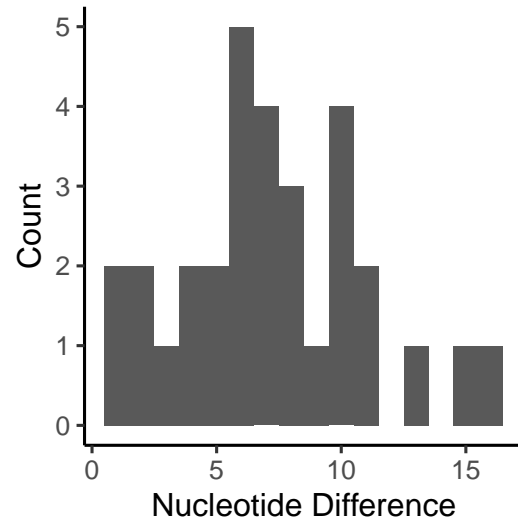
### IGHV3-53\*04

76 sequences assigned  
52 (68.4%) exact matches, in which:  
43 unique CDR3  
5 unique J



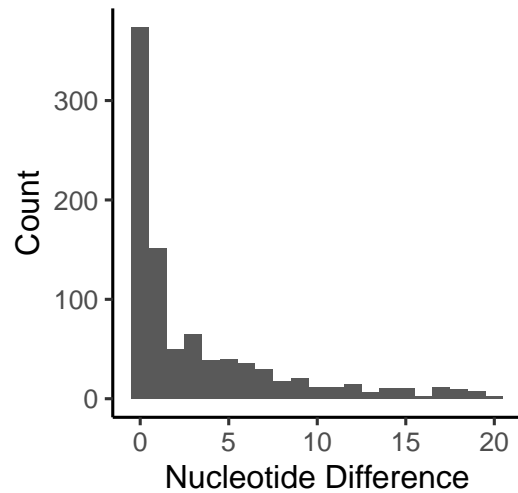
### IGHV3-64\*04

31 sequences assigned  
No exact matches.



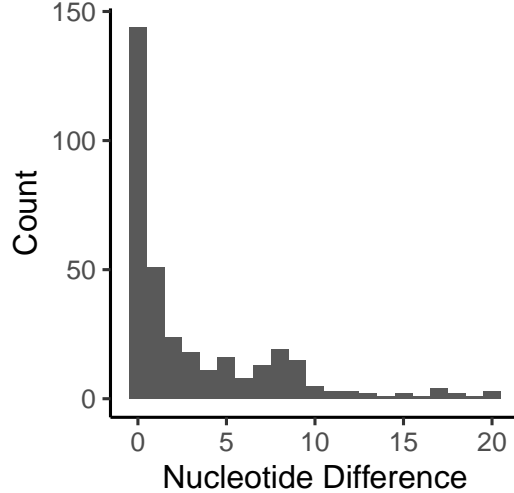
### IGHV3-48\*04

945 sequences assigned  
374 (39.6%) exact matches, in which:  
287 unique CDR3  
7 unique J



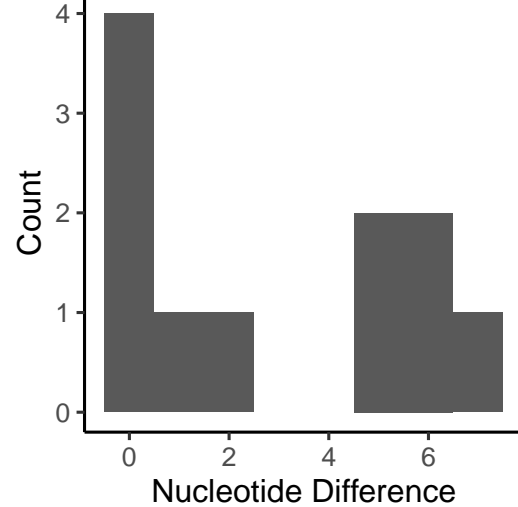
### IGHV3-53\*01\_02

354 sequences assigned  
144 (40.7%) exact matches, in which:  
111 unique CDR3  
7 unique J



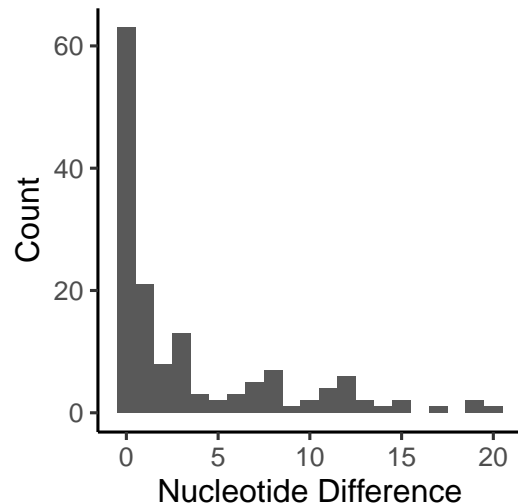
### IGHV3-64\*02\_07

12 sequences assigned  
4 (33.3%) exact matches, in which:  
3 unique CDR3  
2 unique J



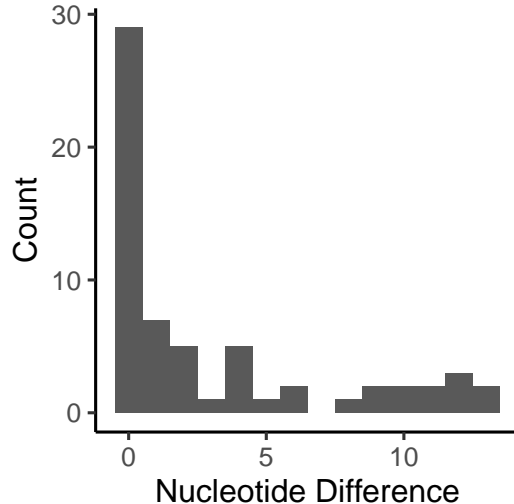
### IGHV3-49\*03\_05

155 sequences assigned  
63 (40.6%) exact matches, in which:  
47 unique CDR3  
5 unique J



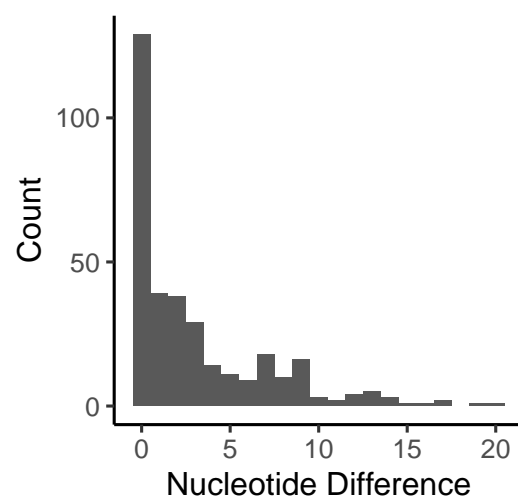
### IGHV3-64\*01

63 sequences assigned  
29 (46%) exact matches, in which:  
22 unique CDR3  
4 unique J



### IGHV3-66\*01

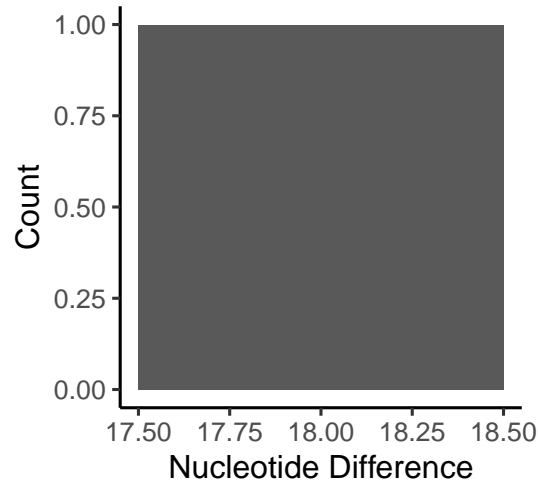
342 sequences assigned  
129 (37.7%) exact matches, in which:  
98 unique CDR3  
6 unique J





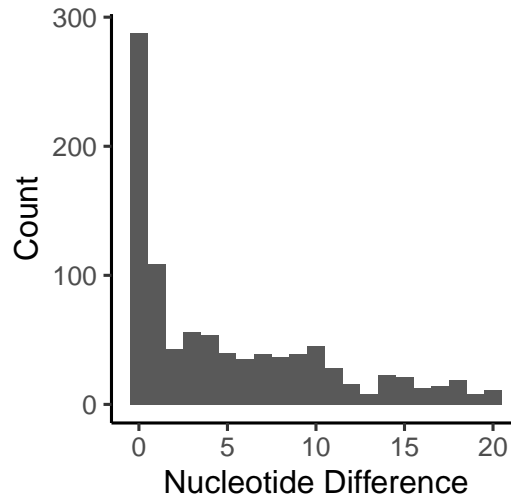
### IGHV3-69-1\*01

3 sequences assigned  
No exact matches.



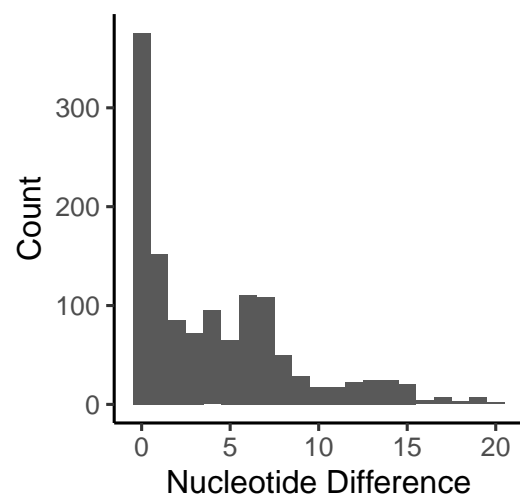
### IGHV3-74\*01\_02

1003 sequences assigned  
288 (28.7%) exact matches, in which:  
215 unique CDR3  
6 unique J



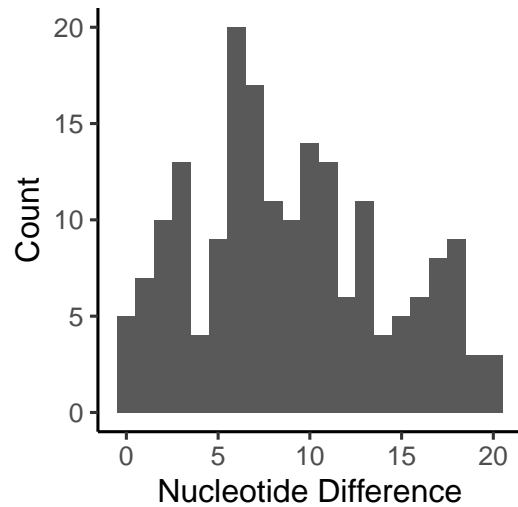
### IGHV4-4\*07

1311 sequences assigned  
376 (28.7%) exact matches, in which:  
357 unique CDR3  
7 unique J



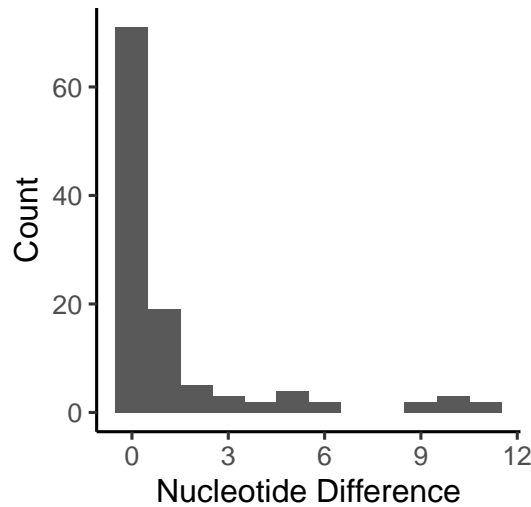
### IGHV3-72\*01

198 sequences assigned  
5 (2.5%) exact matches, in which:  
4 unique CDR3  
2 unique J



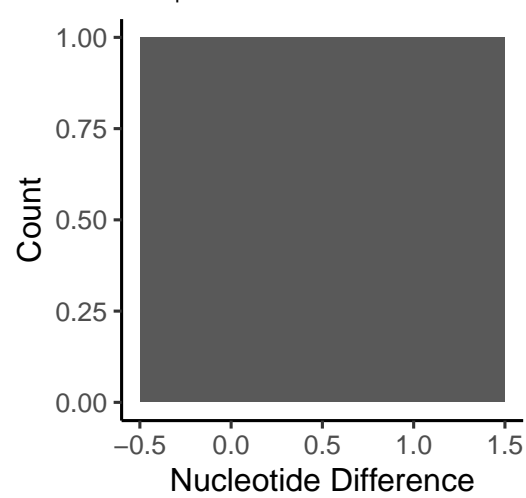
### IGHV3-43D\*03

114 sequences assigned  
71 (62.3%) exact matches, in which:  
57 unique CDR3  
6 unique J



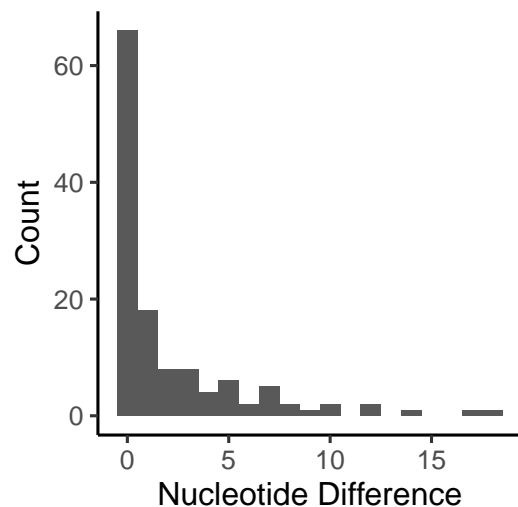
### IGHV4-28\*03

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



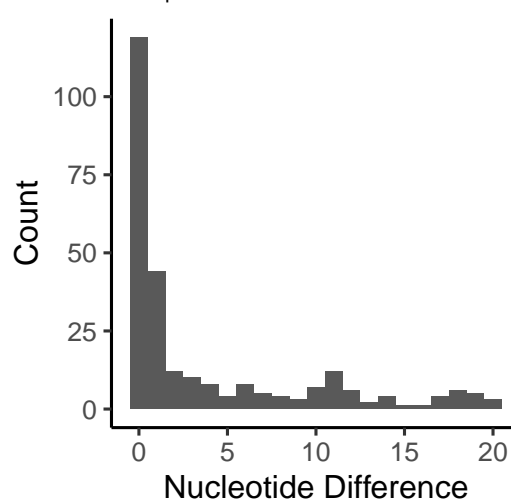
### IGHV3-73\*01\_02

129 sequences assigned  
66 (51.2%) exact matches, in which:  
58 unique CDR3  
6 unique J



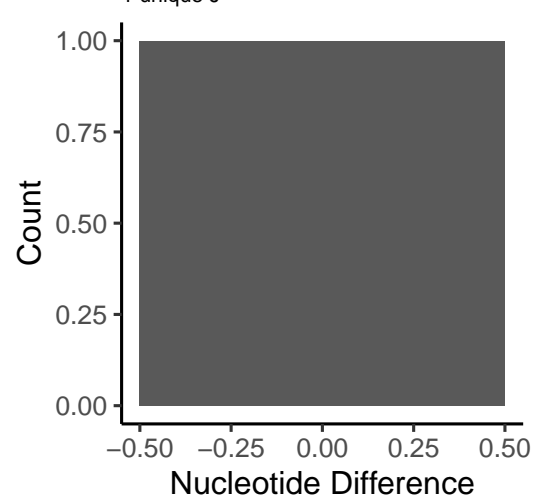
### IGHV3-64D\*06

310 sequences assigned  
119 (38.4%) exact matches, in which:  
88 unique CDR3  
7 unique J



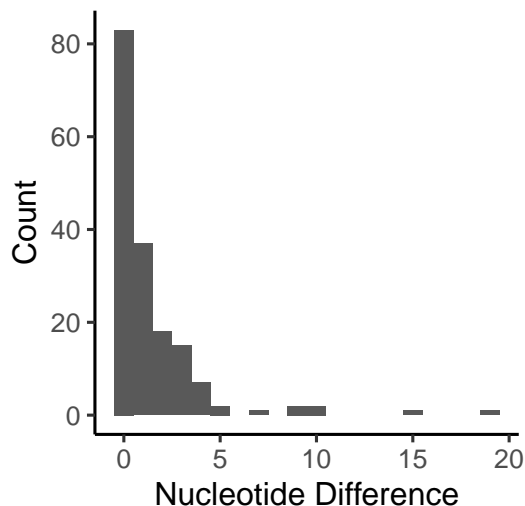
### IGHV4-28\*01\_07

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



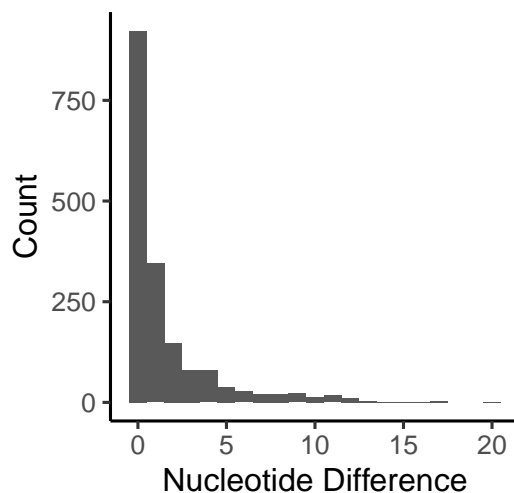
## IGHV4-30-2\*01

170 sequences assigned  
83 (48.8%) exact matches, in which:  
81 unique CDR3  
7 unique J



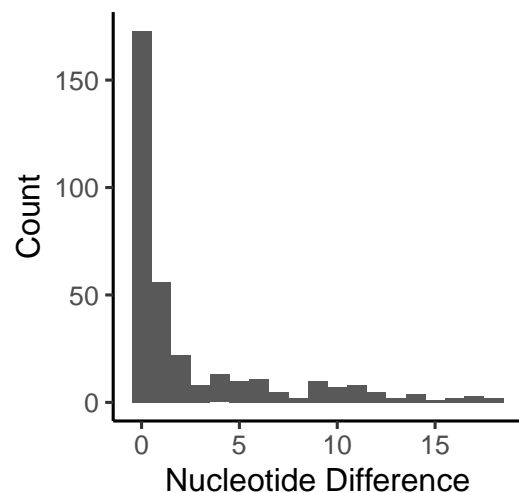
## IGHV4-34\*01\_02

1780 sequences assigned  
923 (51.9%) exact matches, in which:  
892 unique CDR3  
7 unique J



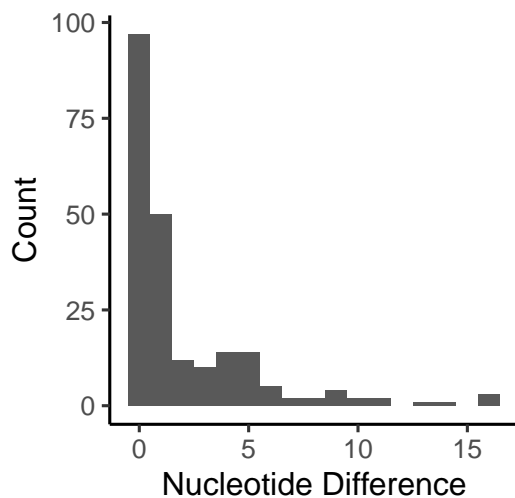
## IGHV4-39\*01\_05

358 sequences assigned  
173 (48.3%) exact matches, in which:  
169 unique CDR3  
7 unique J



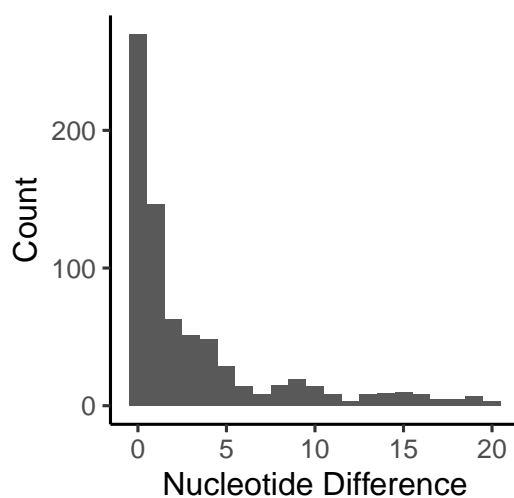
## IGHV4-30-4\*01

222 sequences assigned  
97 (43.7%) exact matches, in which:  
96 unique CDR3  
6 unique J



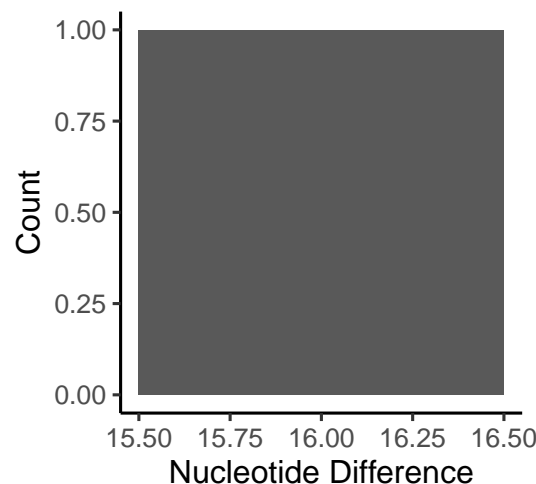
## IGHV4-38-2\*02

764 sequences assigned  
270 (35.3%) exact matches, in which:  
257 unique CDR3  
6 unique J



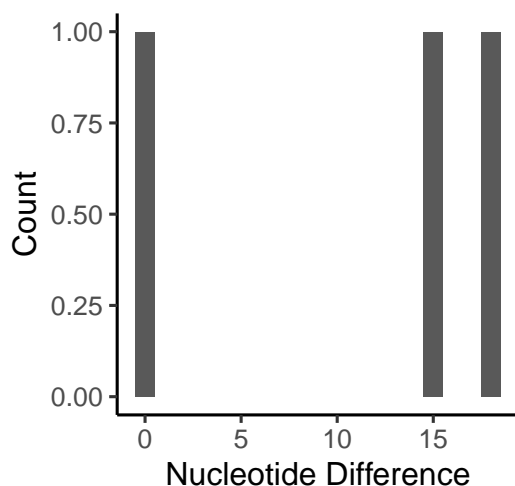
## IGHV4-55\*02\_04\_08

1 sequences assigned  
No exact matches.



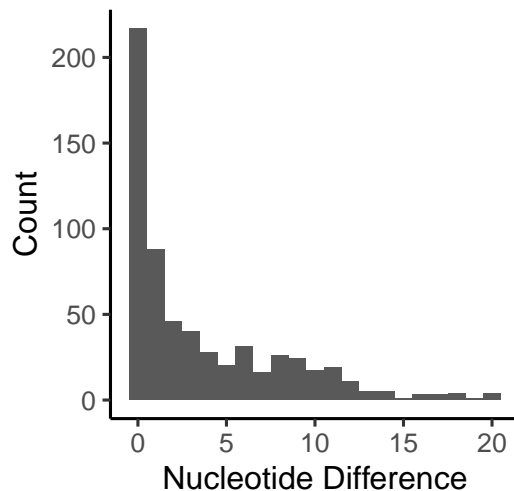
## IGHV4-31\*03\_04

3 sequences assigned  
1 (33.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



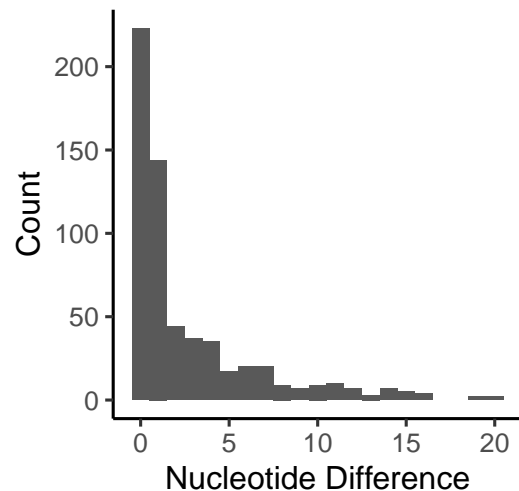
## IGHV4-39\*07

620 sequences assigned  
217 (35%) exact matches, in which:  
211 unique CDR3  
6 unique J



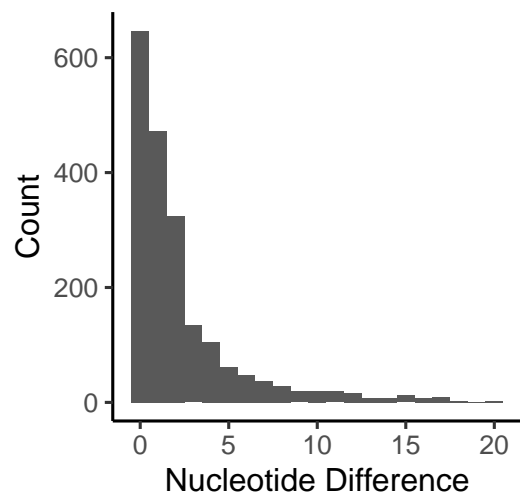
## IGHV4-59\*08

613 sequences assigned  
223 (36.4%) exact matches, in which:  
211 unique CDR3  
7 unique J



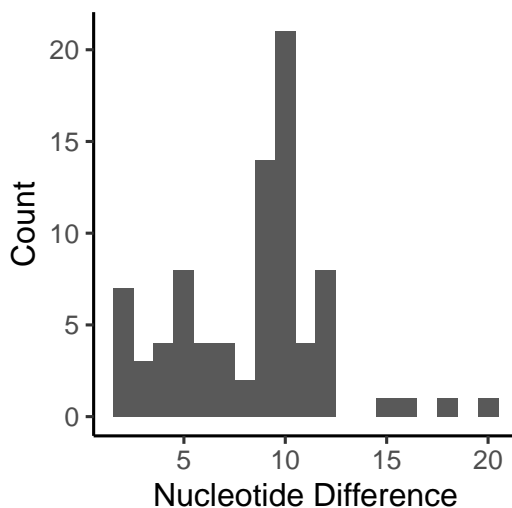
### IGHV4-59\*01\_07

2003 sequences assigned  
647 (32.3%) exact matches, in which:  
619 unique CDR3  
7 unique J



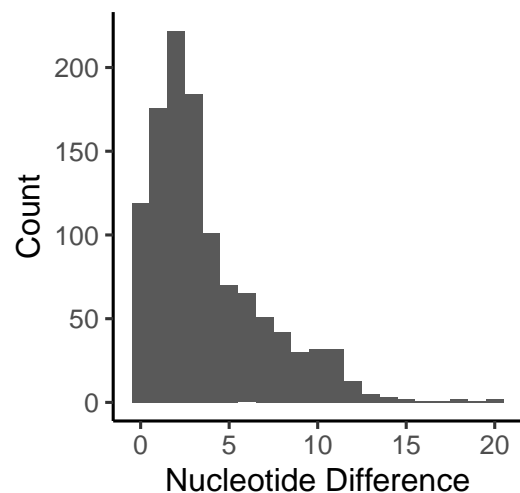
### IGHV4-61\*08

85 sequences assigned  
No exact matches.



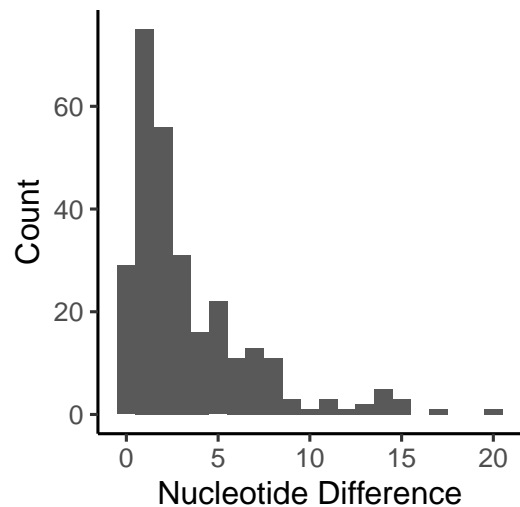
### IGHV6-1\*01\_02

1155 sequences assigned  
119 (10.3%) exact matches, in which:  
113 unique CDR3  
7 unique J



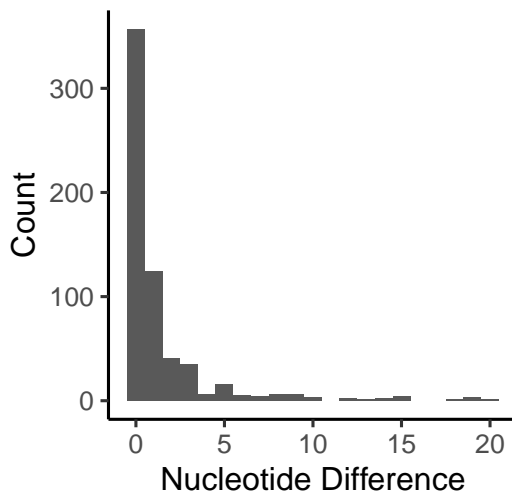
### IGHV4-59\*12

286 sequences assigned  
29 (10.1%) exact matches, in which:  
28 unique CDR3  
5 unique J



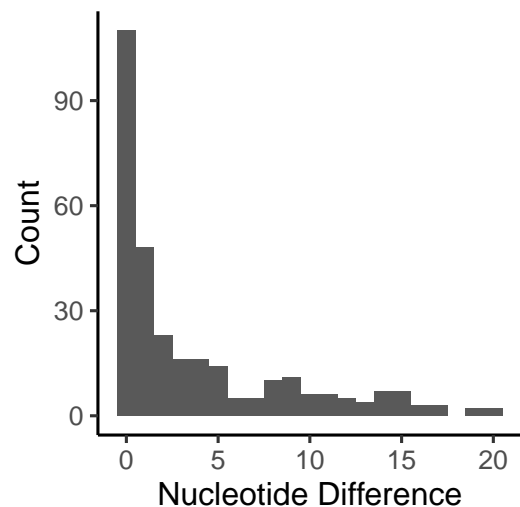
### IGHV5-10-1\*01\_03

622 sequences assigned  
357 (57.4%) exact matches, in which:  
328 unique CDR3  
7 unique J



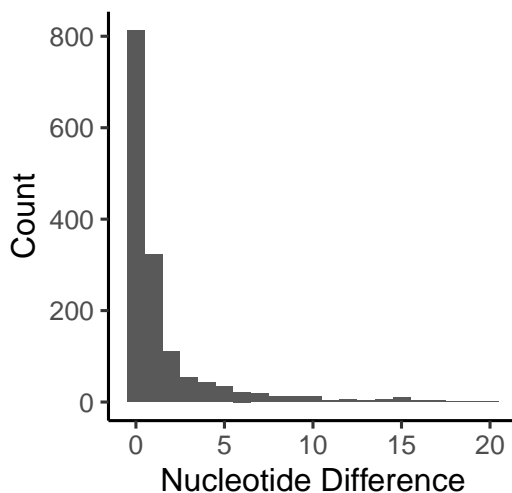
### IGHV4-61\*01

307 sequences assigned  
110 (35.8%) exact matches, in which:  
106 unique CDR3  
7 unique J

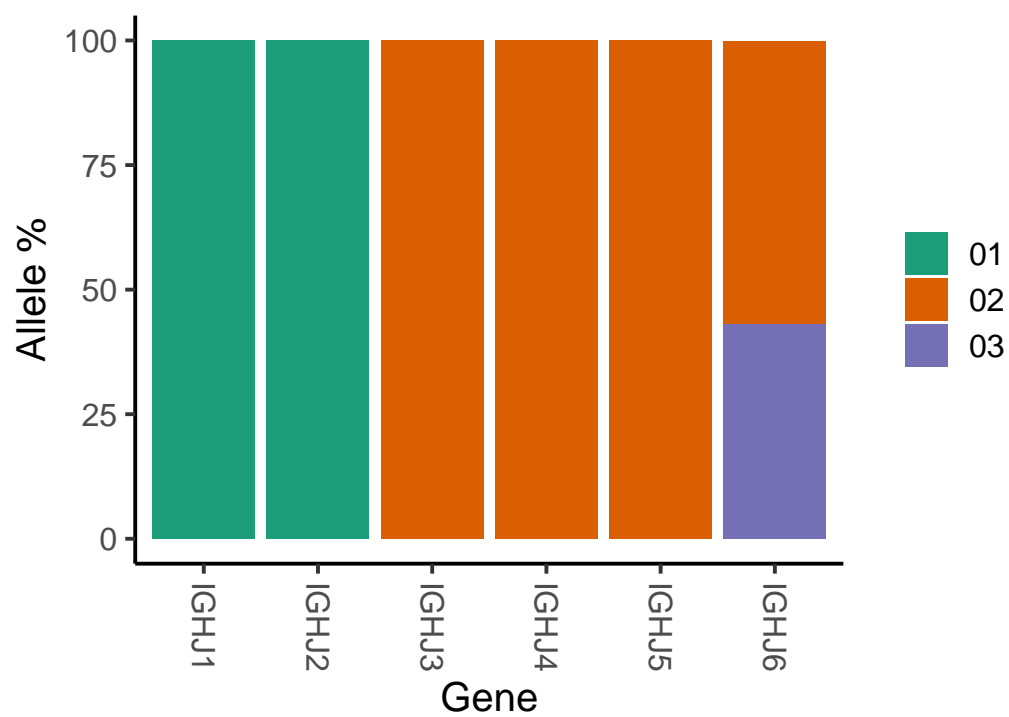


### IGHV5-51\*01\_03

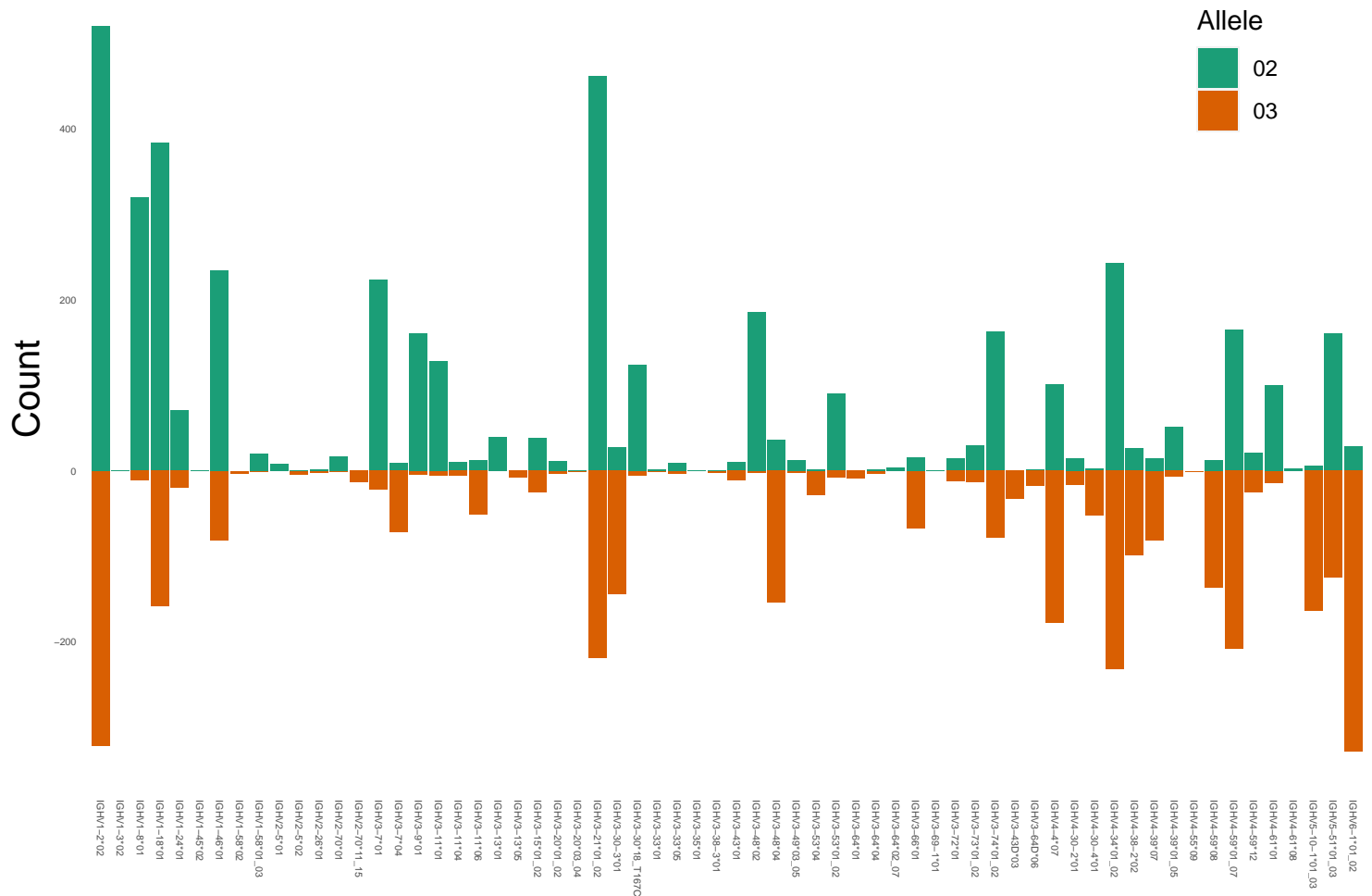
1503 sequences assigned  
813 (54.1%) exact matches, in which:  
711 unique CDR3  
7 unique J



Allele Usage



## Sequence Count byIGHJ6 allele usage



Novel sequence(s)IGHV1–69\*01\_12\_13\_G238AIGHV3–48\*03\_T303G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV5–51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV5–51\*07\_A128G are not listed in the genotype and will be ignored.

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

Novel sequence(s)IGHV3–30–3\*01\_T288CIGHV4–59\*02\_G88AIGHV5–51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV3–30\*03\_T288C are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV5–51\*07\_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Novel sequence(s)IGHV3–33\*01\_G75CIGHV4–59\*02\_G88AIGHV5–51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV3–33\*01\_G75CIGHV4–59\*02\_G88AIGHV5–51\*07\_A128G are not listed in the genotype and will be ignored.