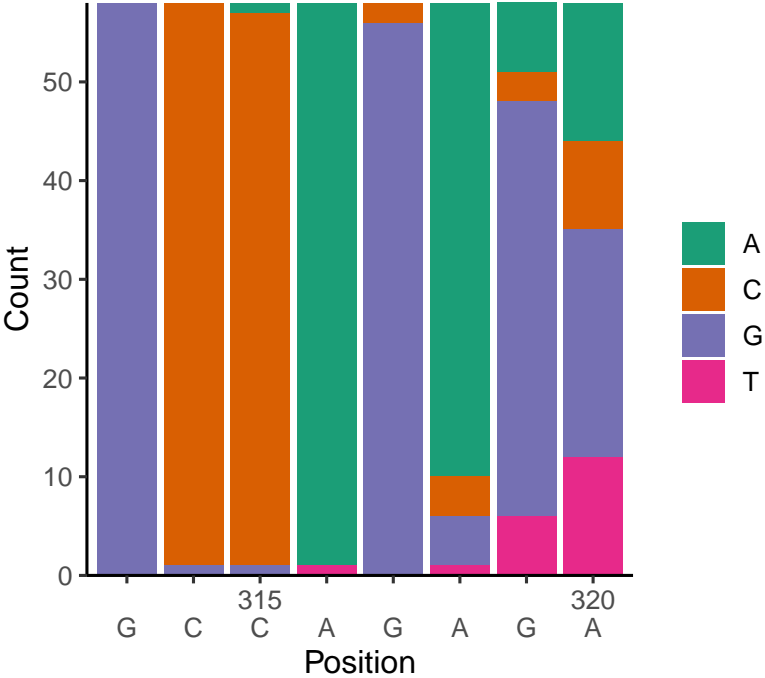
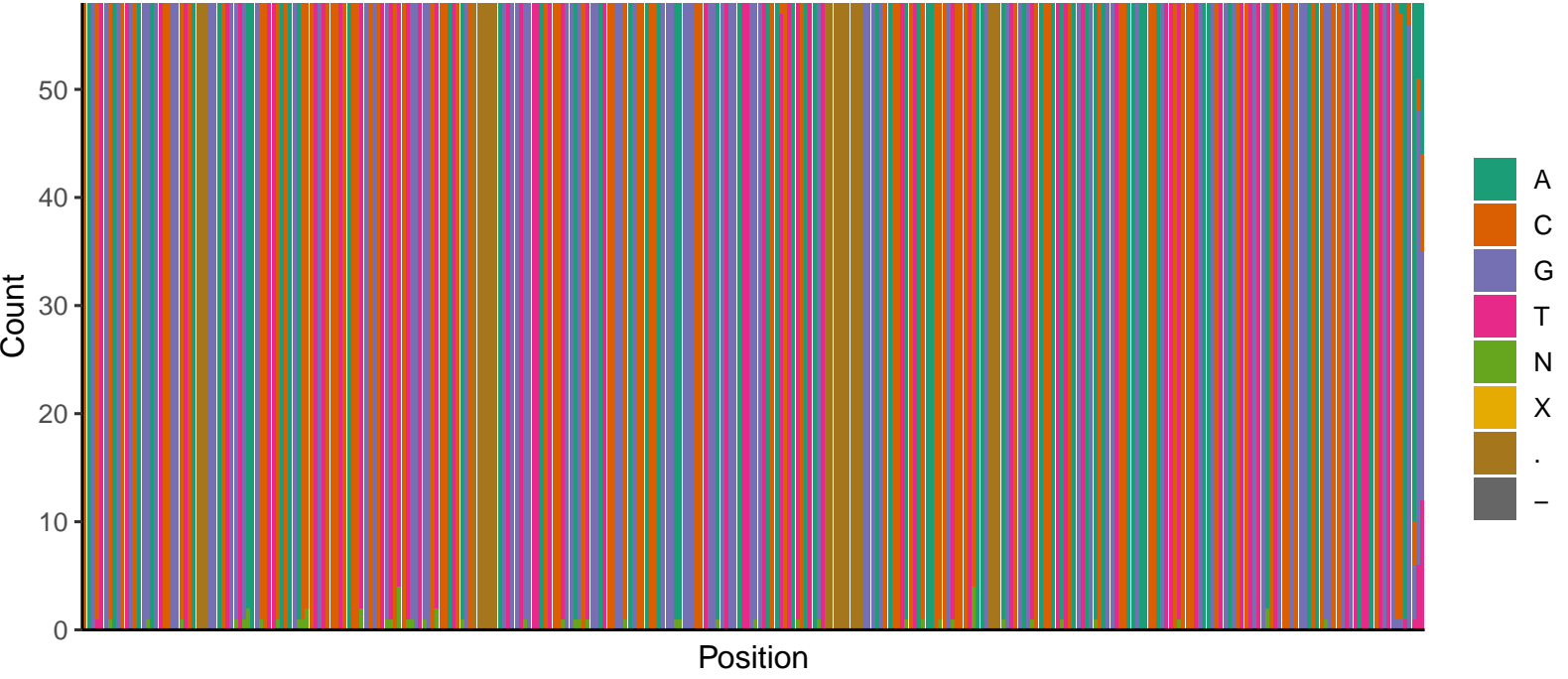


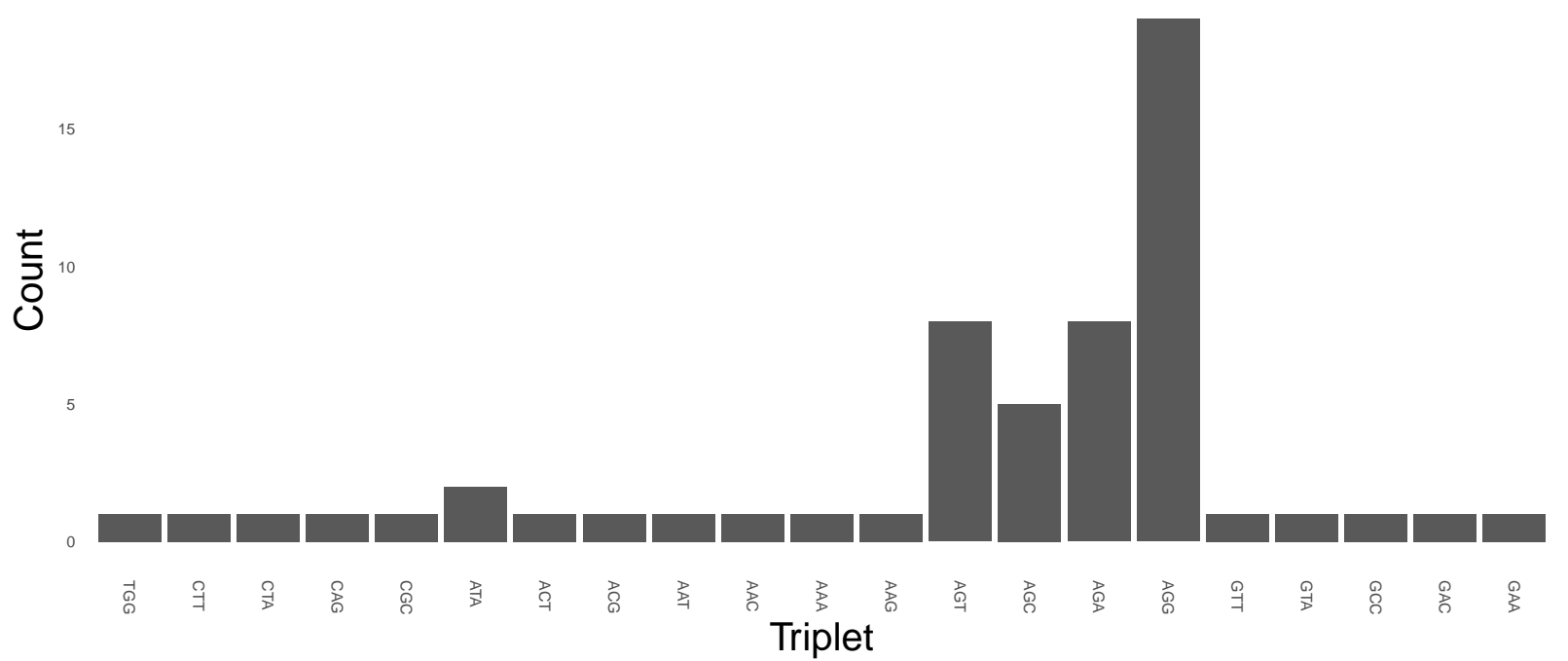
Gene IGHV4-30-2\*01\_C285T



Gene IGHV4-30-2\*01\_C285T

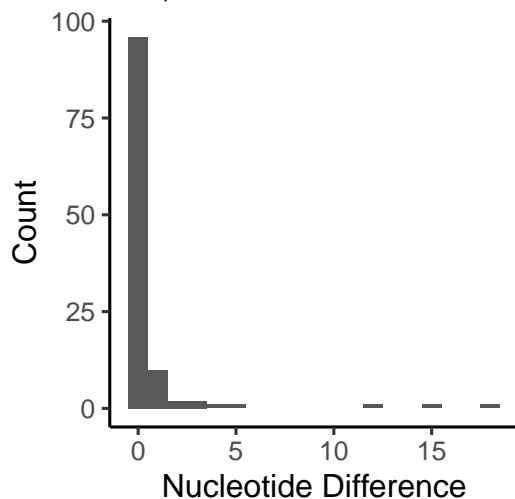


IGHV4-30-2\*01\_C285T- Final 3 nucleotides as a triplet



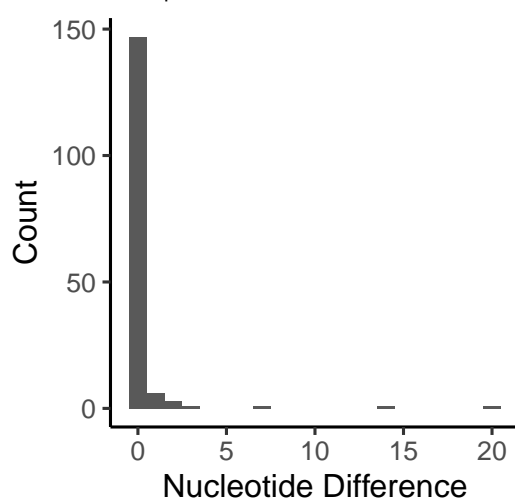
### IGHV1–2\*04

115 sequences assigned  
96 (83.5%) exact matches, in which:  
96 unique CDR3  
6 unique J



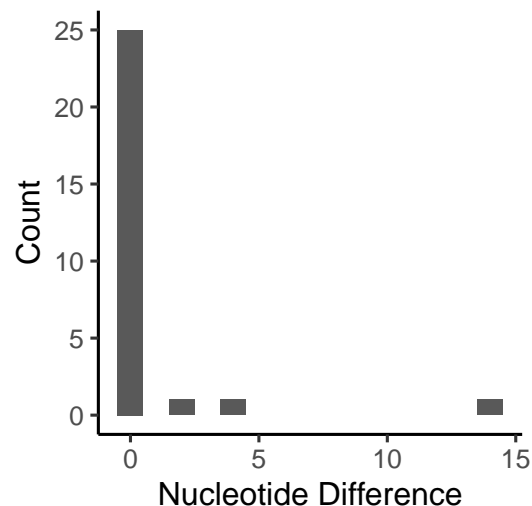
### IGHV1–24\*01

160 sequences assigned  
147 (91.9%) exact matches, in which:  
146 unique CDR3  
7 unique J



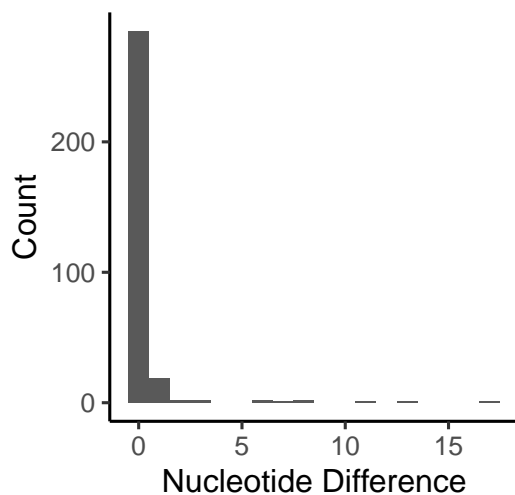
### IGHV1–58\*01

29 sequences assigned  
25 (86.2%) exact matches, in which:  
25 unique CDR3  
6 unique J



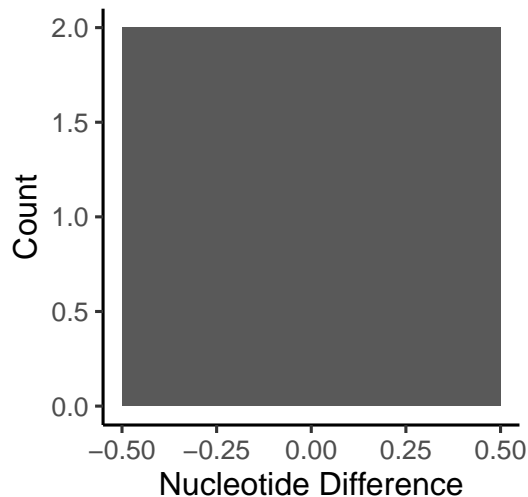
### IGHV1–3\*01

316 sequences assigned  
285 (90.2%) exact matches, in which:  
284 unique CDR3  
7 unique J



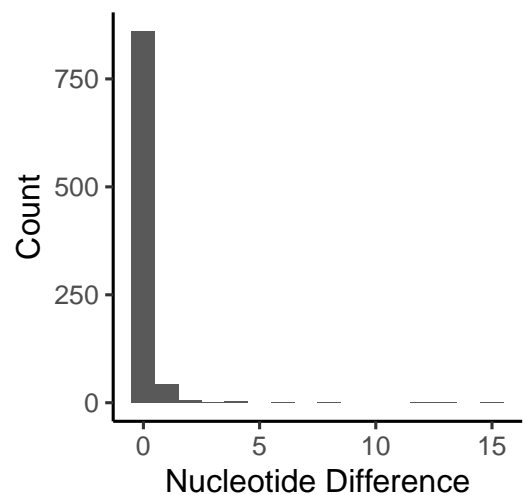
### IGHV1–45\*02

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
2 unique J



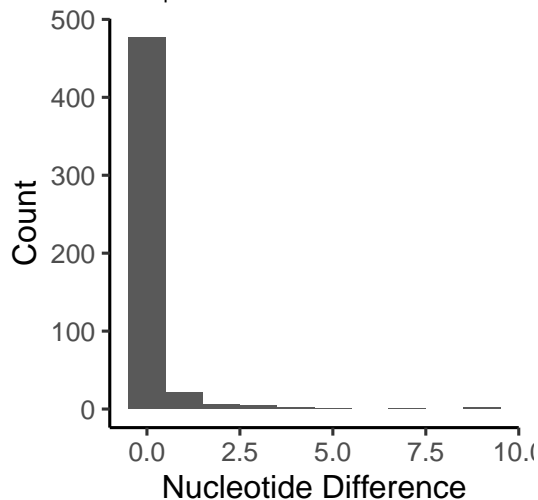
### IGHV1–69\*01

918 sequences assigned  
861 (93.8%) exact matches, in which:  
860 unique CDR3  
7 unique J



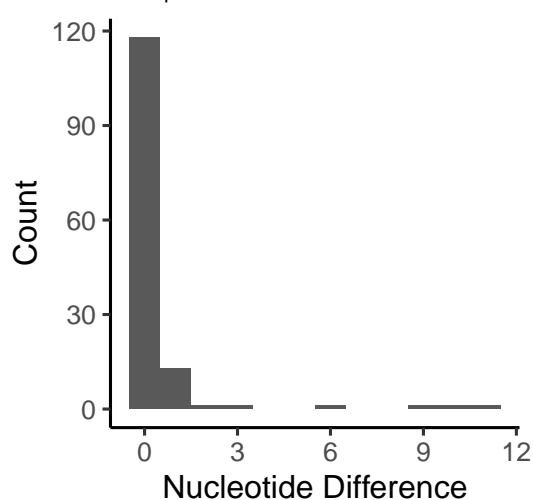
### IGHV1–18\*04

515 sequences assigned  
477 (92.6%) exact matches, in which:  
477 unique CDR3  
7 unique J



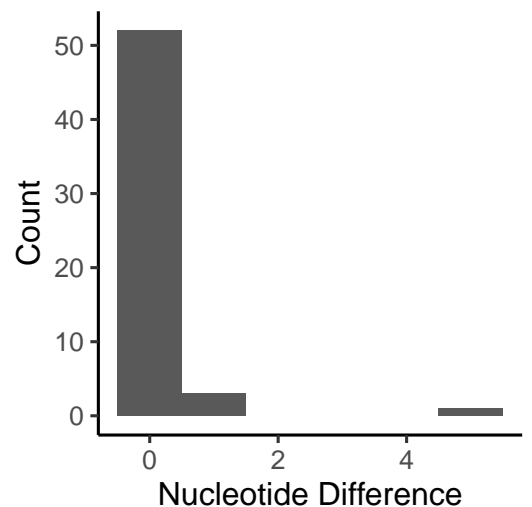
### IGHV1–46\*01

137 sequences assigned  
118 (86.1%) exact matches, in which:  
118 unique CDR3  
6 unique J



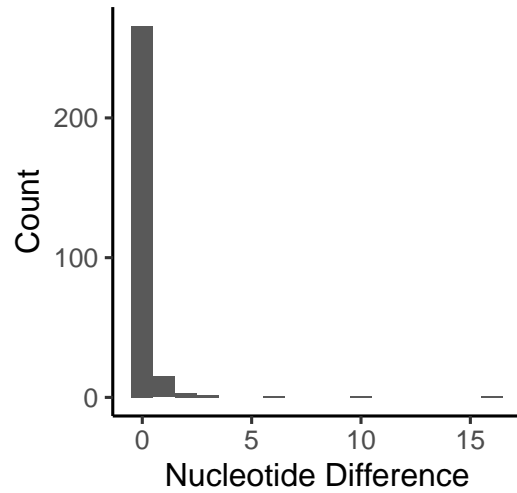
### IGHV1–69–2\*01

56 sequences assigned  
52 (92.9%) exact matches, in which:  
52 unique CDR3  
6 unique J



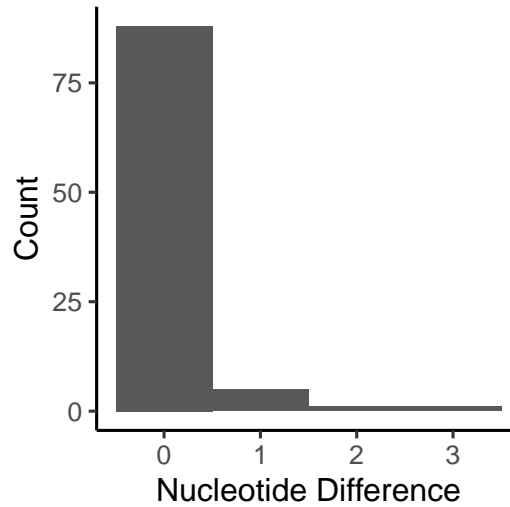
### IGHV1–69\*06

290 sequences assigned  
266 (91.7%) exact matches, in which:  
266 unique CDR3  
7 unique J



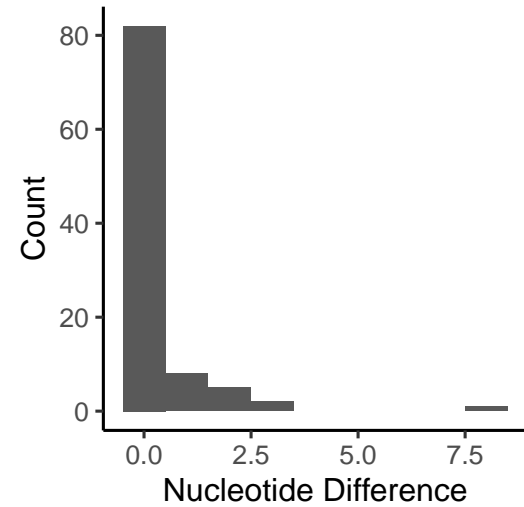
### IGHV2–26\*01

95 sequences assigned  
88 (92.6%) exact matches, in which:  
88 unique CDR3  
6 unique J



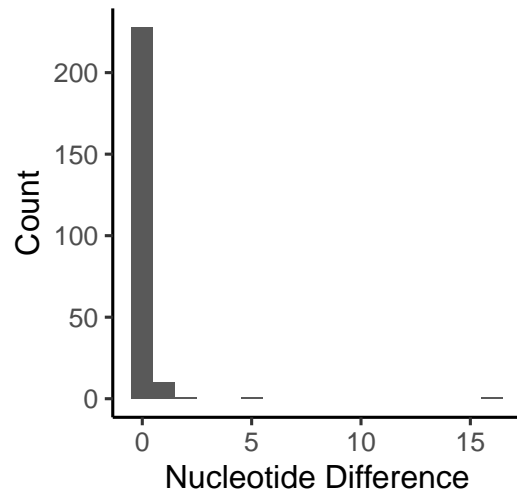
### IGHV3–7\*03

98 sequences assigned  
82 (83.7%) exact matches, in which:  
82 unique CDR3  
6 unique J



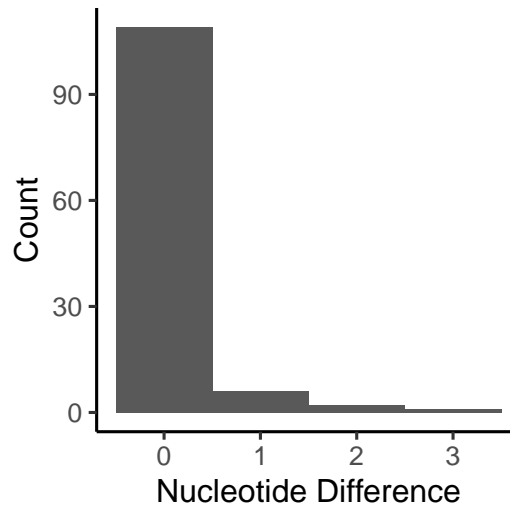
### IGHV1–69\*17

241 sequences assigned  
228 (94.6%) exact matches, in which:  
228 unique CDR3  
7 unique J



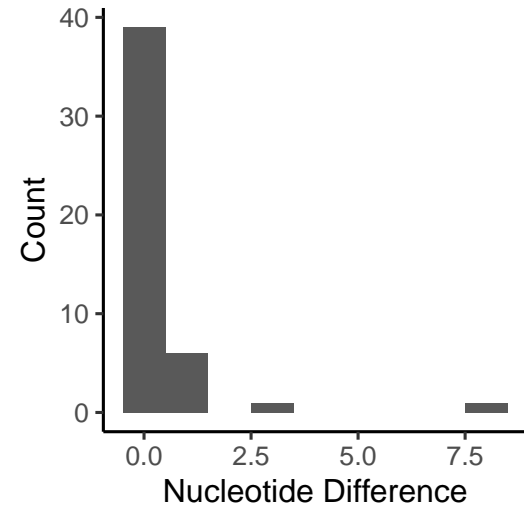
### IGHV2–70\*01

118 sequences assigned  
109 (92.4%) exact matches, in which:  
109 unique CDR3  
6 unique J



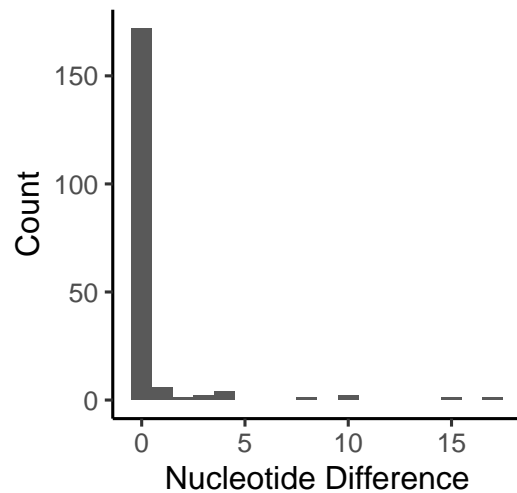
### IGHV3–11\*06

47 sequences assigned  
39 (83%) exact matches, in which:  
39 unique CDR3  
7 unique J



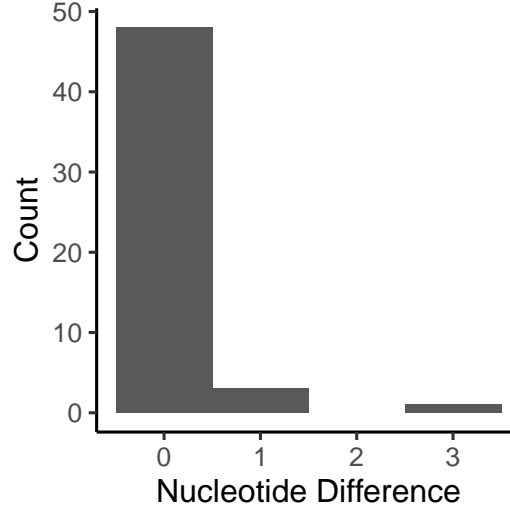
### IGHV2–5\*02

190 sequences assigned  
172 (90.5%) exact matches, in which:  
172 unique CDR3  
7 unique J



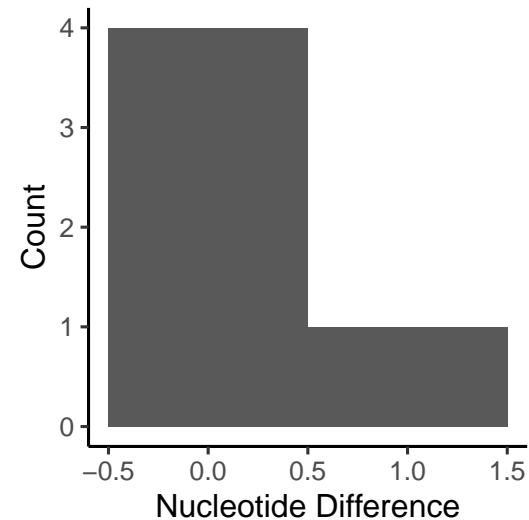
### IGHV2–70\*04

52 sequences assigned  
48 (92.3%) exact matches, in which:  
48 unique CDR3  
6 unique J



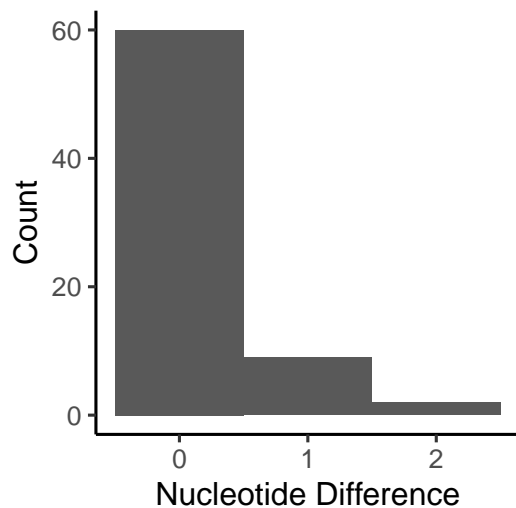
### IGHV3–13\*05

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



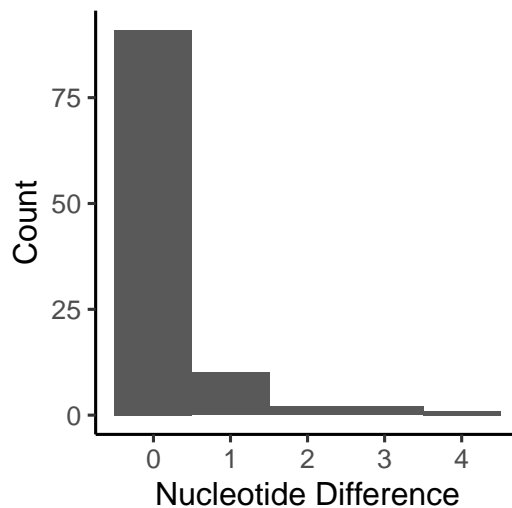
### IGHV3-15\*01

71 sequences assigned  
60 (84.5%) exact matches, in which:  
60 unique CDR3  
7 unique J



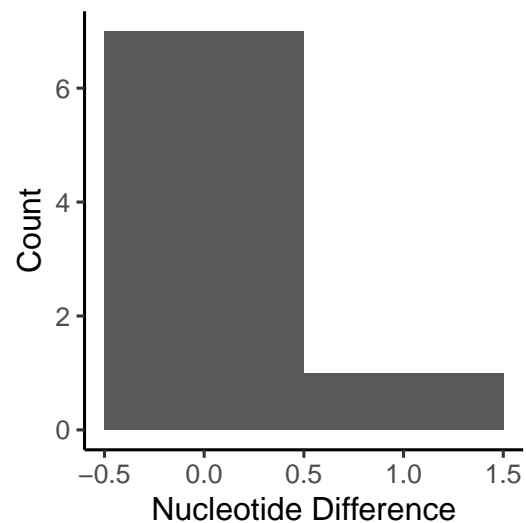
### IGHV3-30-3\*01

106 sequences assigned  
91 (85.8%) exact matches, in which:  
91 unique CDR3  
5 unique J



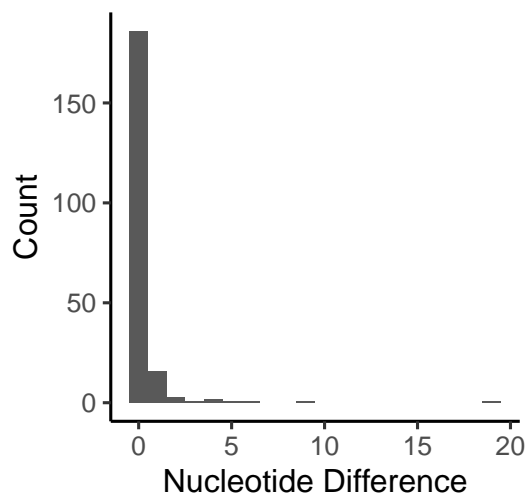
### IGHV3-43\*01

8 sequences assigned  
7 (87.5%) exact matches, in which:  
7 unique CDR3  
4 unique J



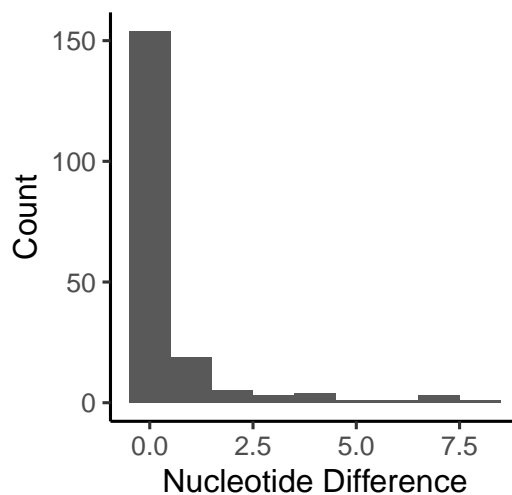
### IGHV3-21\*01

212 sequences assigned  
186 (87.7%) exact matches, in which:  
186 unique CDR3  
7 unique J



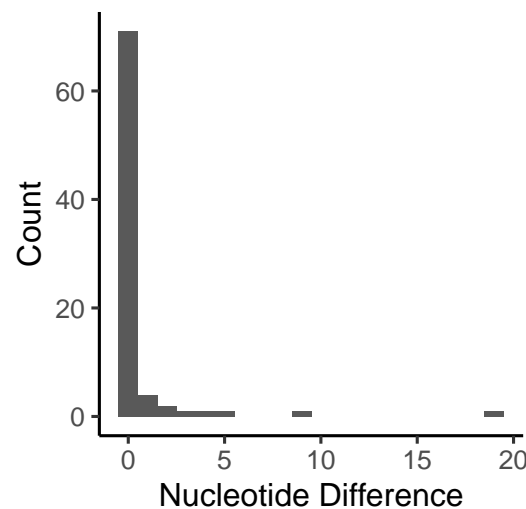
### IGHV3-30\*18

191 sequences assigned  
154 (80.6%) exact matches, in which:  
154 unique CDR3  
6 unique J



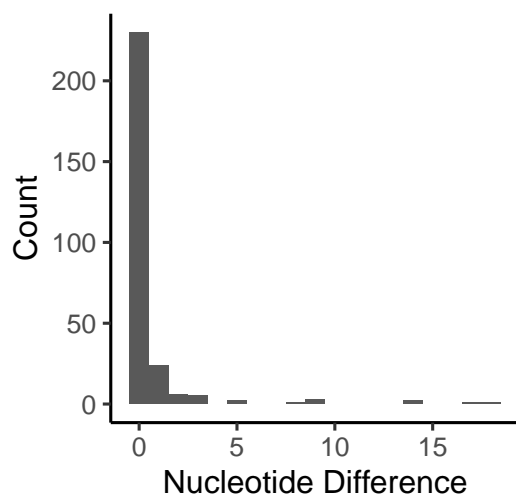
### IGHV3-48\*02

82 sequences assigned  
71 (86.6%) exact matches, in which:  
71 unique CDR3  
7 unique J



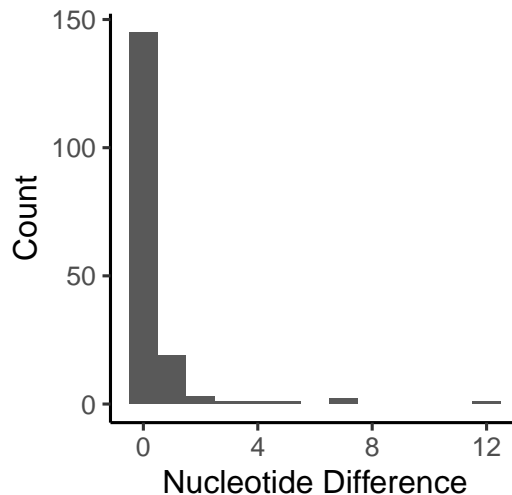
### IGHV3-23\*01

275 sequences assigned  
230 (83.6%) exact matches, in which:  
230 unique CDR3  
7 unique J



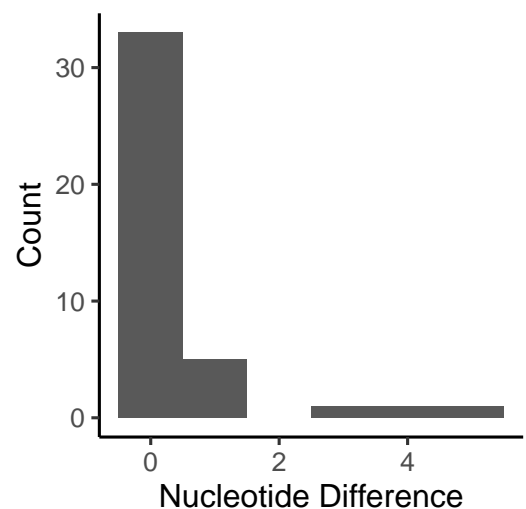
### IGHV3-33\*01

173 sequences assigned  
145 (83.8%) exact matches, in which:  
145 unique CDR3  
5 unique J



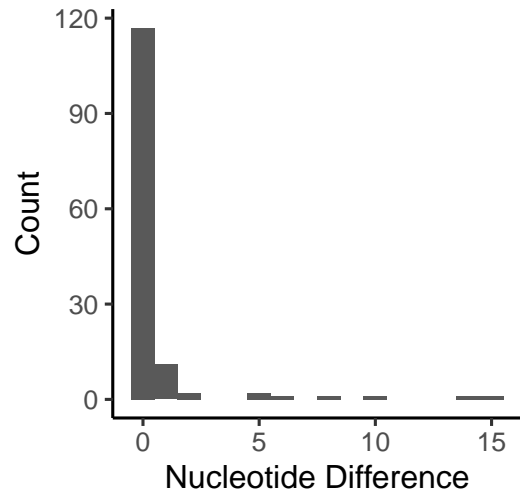
### IGHV3-49\*05

41 sequences assigned  
33 (80.5%) exact matches, in which:  
33 unique CDR3  
6 unique J



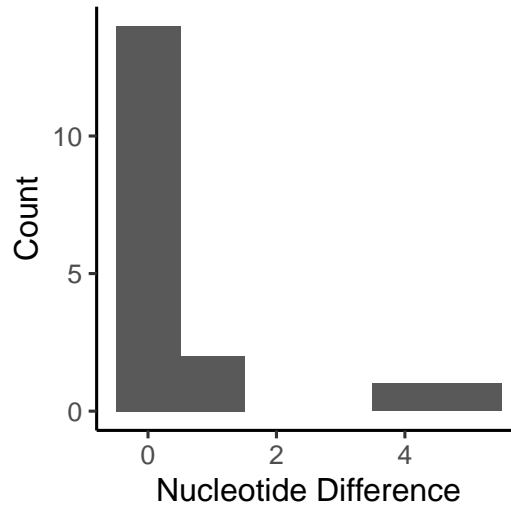
### IGHV3-53\*01

137 sequences assigned  
117 (85.4%) exact matches, in which:  
117 unique CDR3  
7 unique J



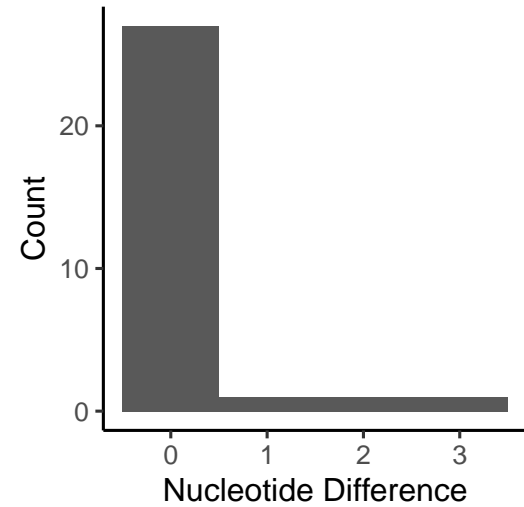
### IGHV3-73\*02

18 sequences assigned  
14 (77.8%) exact matches, in which:  
14 unique CDR3  
5 unique J



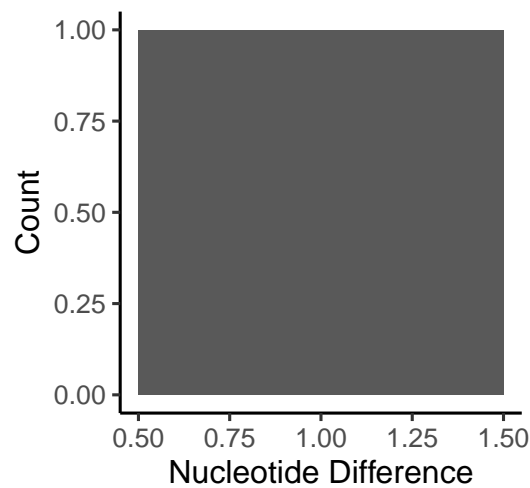
### IGHV3-64D\*09

30 sequences assigned  
27 (90%) exact matches, in which:  
27 unique CDR3  
2 unique J



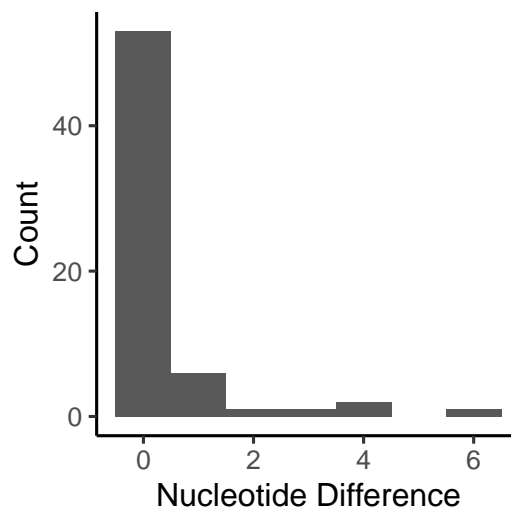
### IGHV3-66\*03

1 sequences assigned  
No exact matches.



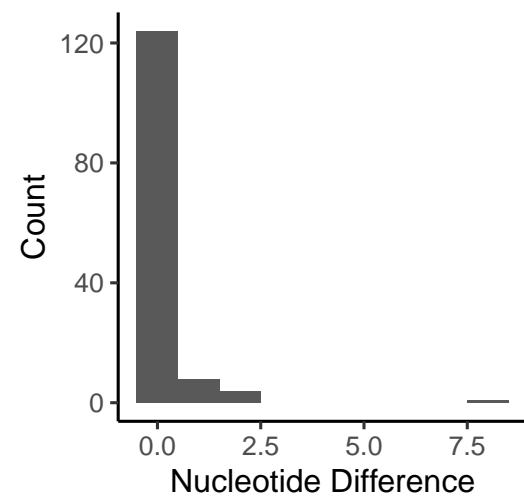
### IGHV3-74\*01

64 sequences assigned  
53 (82.8%) exact matches, in which:  
53 unique CDR3  
7 unique J



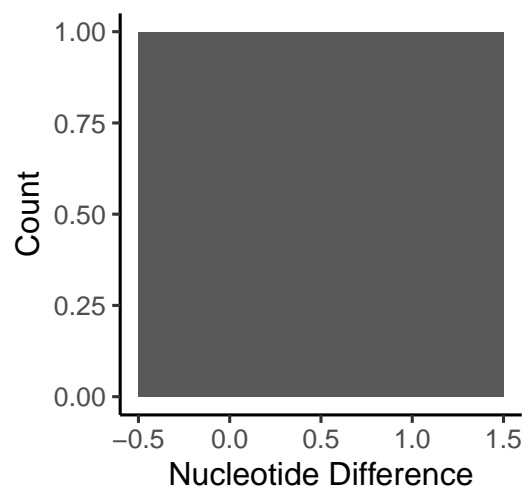
### IGHV4-4\*02

137 sequences assigned  
124 (90.5%) exact matches, in which:  
124 unique CDR3  
7 unique J



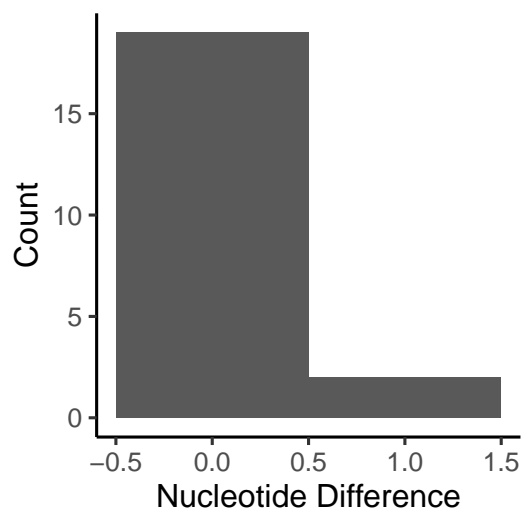
### IGHV3-72\*01

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



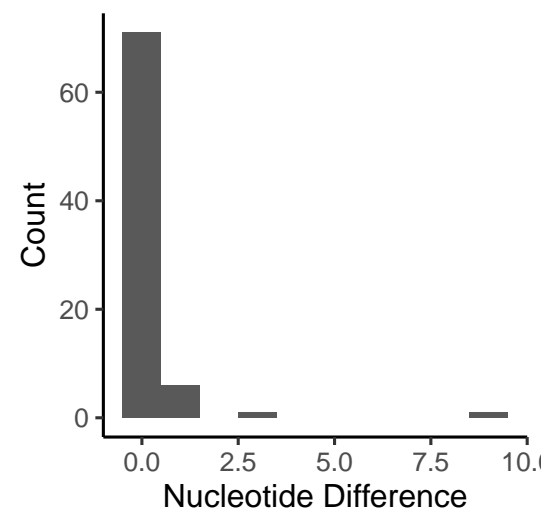
### IGHV3-64D\*06

22 sequences assigned  
19 (86.4%) exact matches, in which:  
19 unique CDR3  
4 unique J



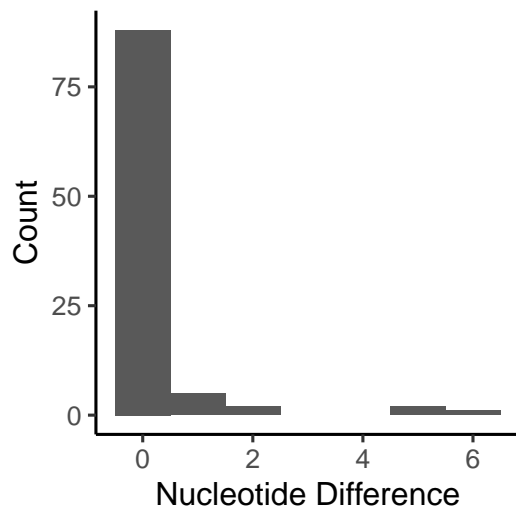
### IGHV4-30-4\*01

79 sequences assigned  
71 (89.9%) exact matches, in which:  
71 unique CDR3  
6 unique J



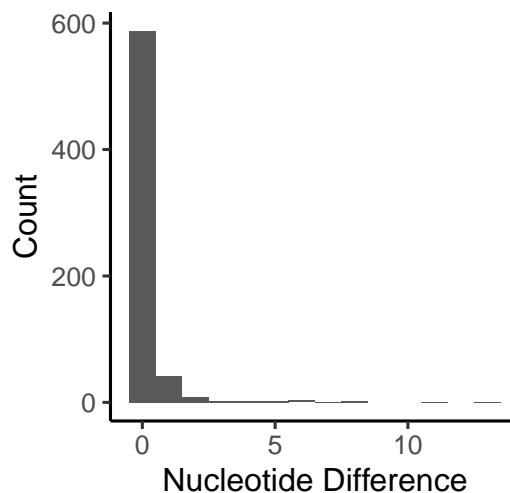
### IGHV4-30-2\*01

98 sequences assigned  
88 (89.8%) exact matches, in which:  
88 unique CDR3  
7 unique J



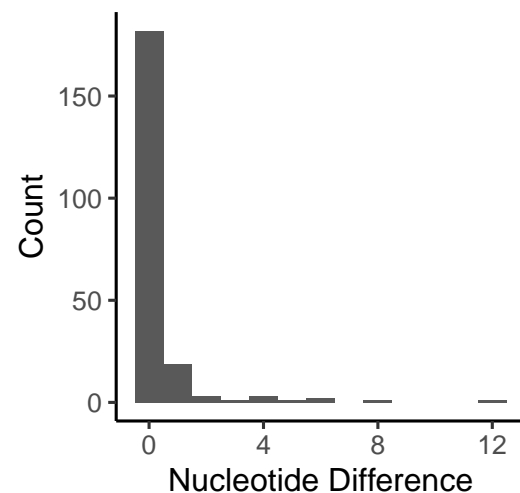
### IGHV4-34\*01

652 sequences assigned  
588 (90.2%) exact matches, in which:  
588 unique CDR3  
7 unique J



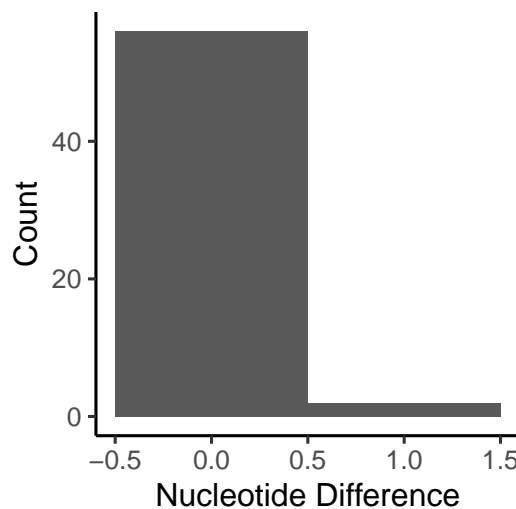
### IGHV4-59\*01

213 sequences assigned  
182 (85.4%) exact matches, in which:  
182 unique CDR3  
7 unique J



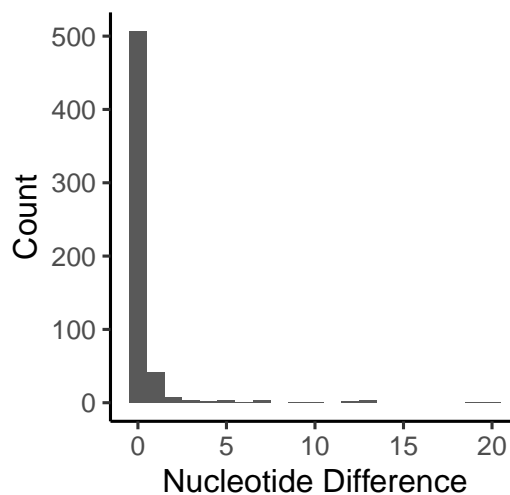
### IGHV4-30-2\*01\_C285T

58 sequences assigned  
56 (96.6%) exact matches, in which:  
56 unique CDR3  
6 unique J



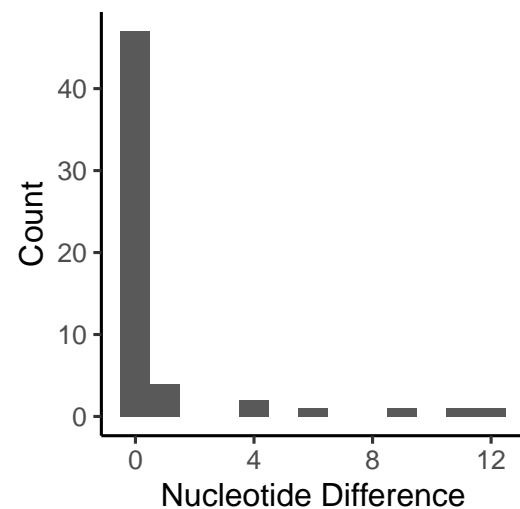
### IGHV4-39\*01

580 sequences assigned  
507 (87.4%) exact matches, in which:  
506 unique CDR3  
7 unique J



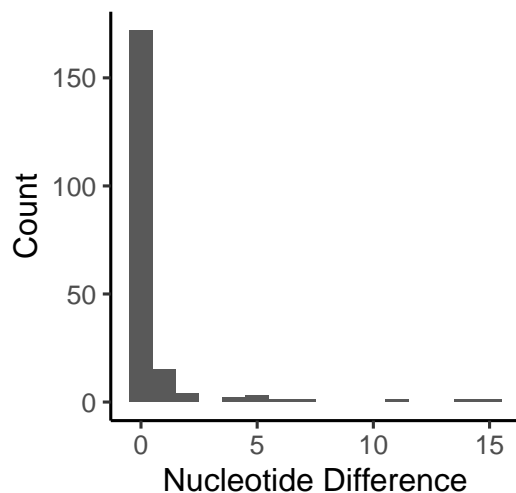
### IGHV4-61\*01

57 sequences assigned  
47 (82.5%) exact matches, in which:  
47 unique CDR3  
6 unique J



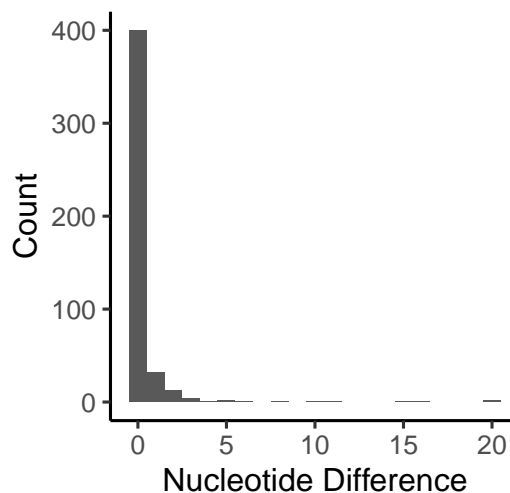
### IGHV4-31\*03

201 sequences assigned  
172 (85.6%) exact matches, in which:  
172 unique CDR3  
7 unique J



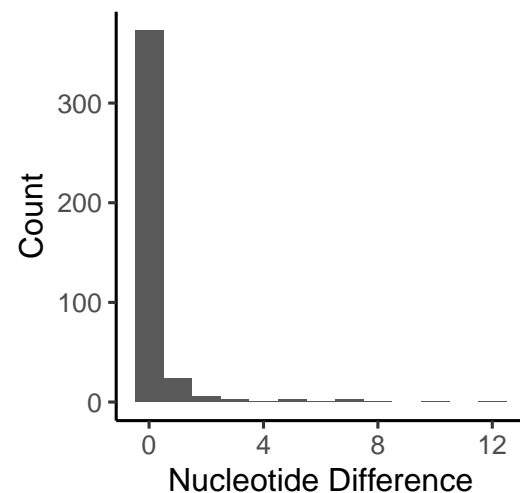
### IGHV4-39\*07

459 sequences assigned  
400 (87.1%) exact matches, in which:  
399 unique CDR3  
7 unique J



### IGHV5-10-1\*03

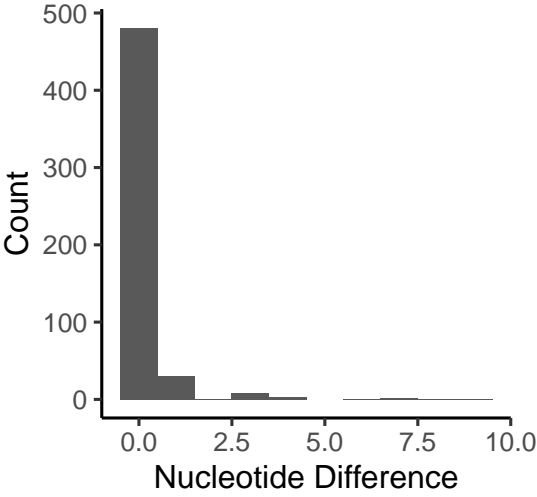
417 sequences assigned  
373 (89.4%) exact matches, in which:  
372 unique CDR3  
7 unique J





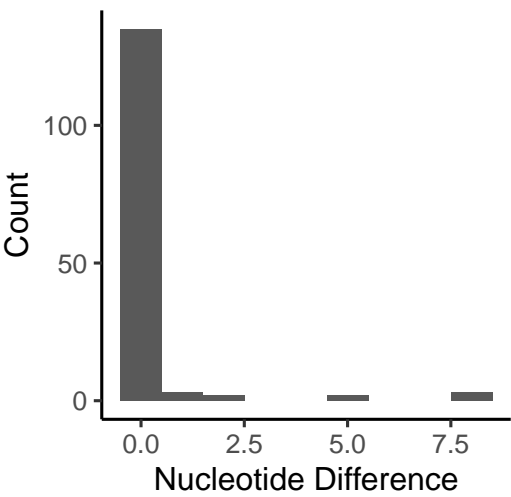
IGHV5–51\*01

529 sequences assigned  
481 (90.9%) exact matches, in which:  
481 unique CDR3  
7 unique J



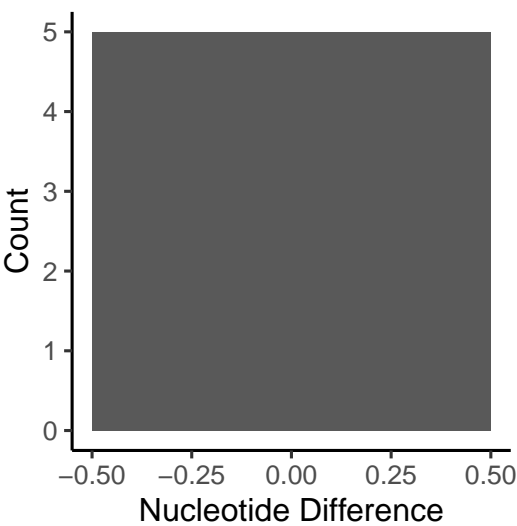
IGHV6–1\*01

145 sequences assigned  
135 (93.1%) exact matches, in which:  
135 unique CDR3  
6 unique J

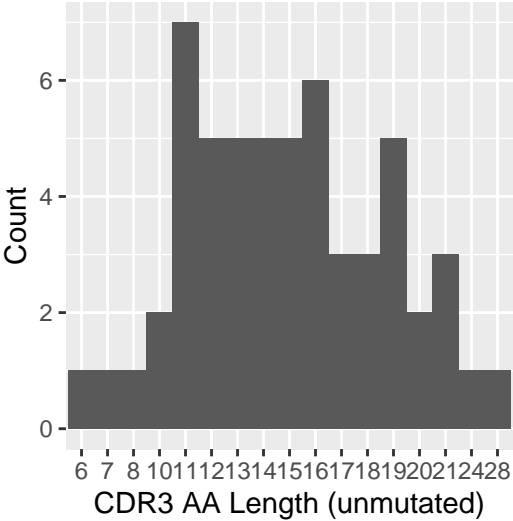


IGHV7–4–1\*01

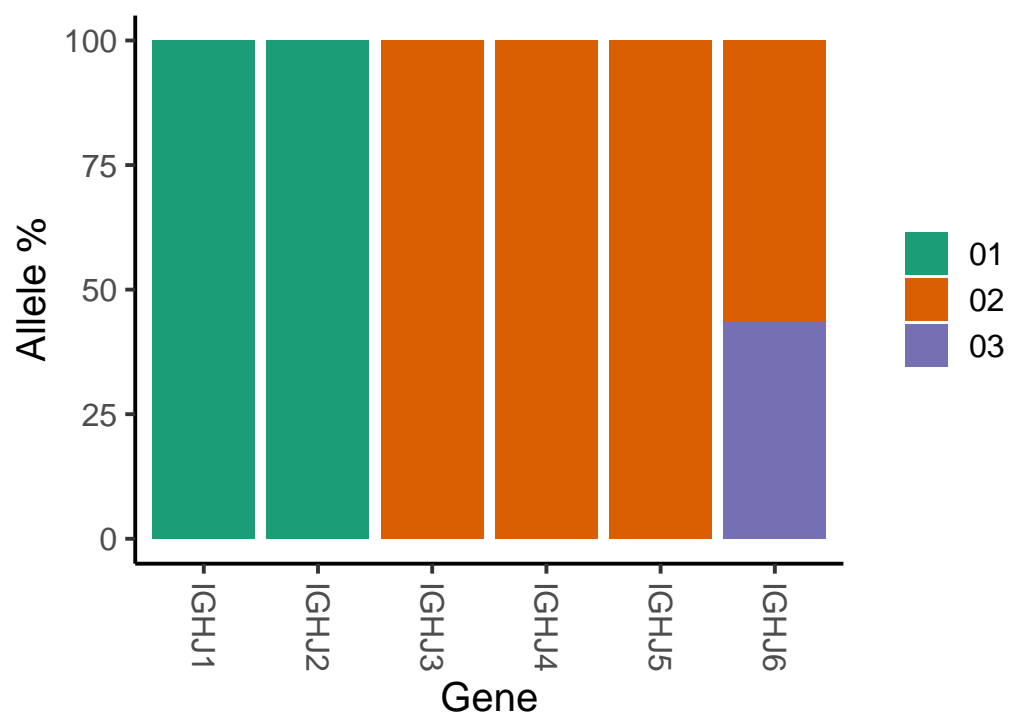
5 sequences assigned  
5 (100%) exact matches, in which:  
5 unique CDR3  
4 unique J



IGHV4-30-2\*01\_C285T



Allele Usage



Sequence Count by IGHJ6 allele usage

