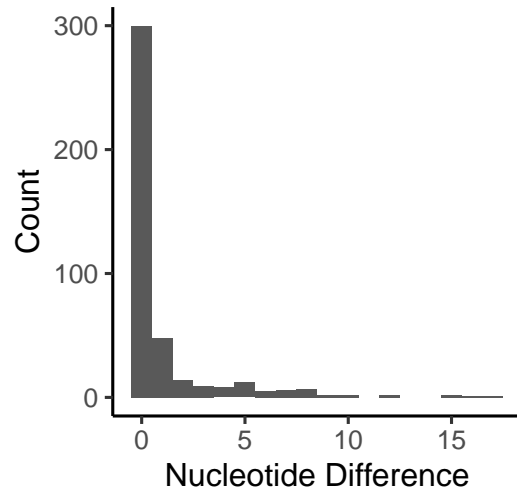


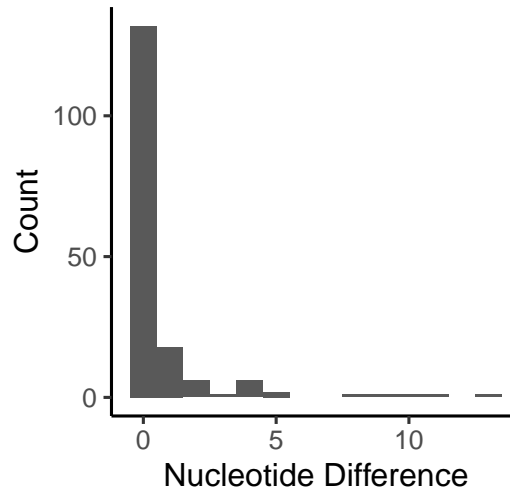
### IGKV1-5\*03

421 sequences assigned  
300 (71.3%) exact matches, in which:  
201 unique CDR3  
5 unique J



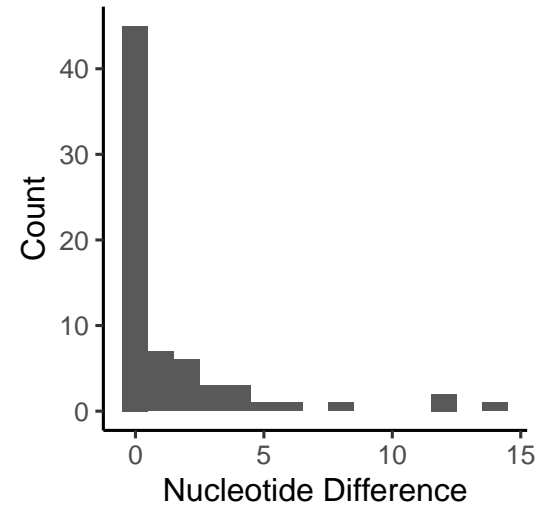
### IGKV1-9\*01

171 sequences assigned  
132 (77.2%) exact matches, in which:  
92 unique CDR3  
5 unique J



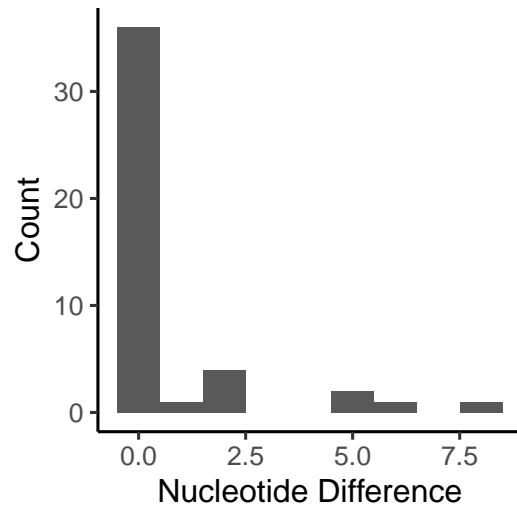
### IGKV1-17\*01

71 sequences assigned  
45 (63.4%) exact matches, in which:  
33 unique CDR3  
4 unique J



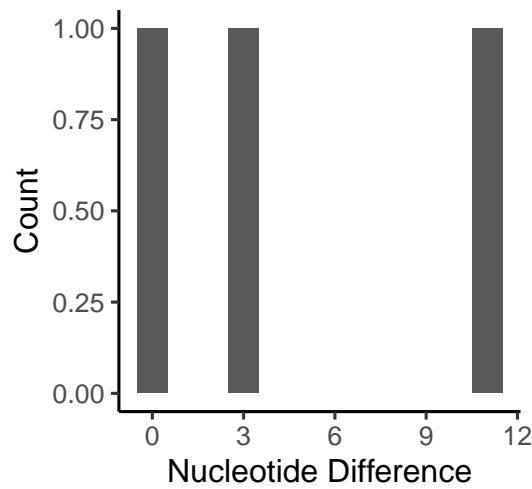
### IGKV1-6\*01

46 sequences assigned  
36 (78.3%) exact matches, in which:  
22 unique CDR3  
4 unique J



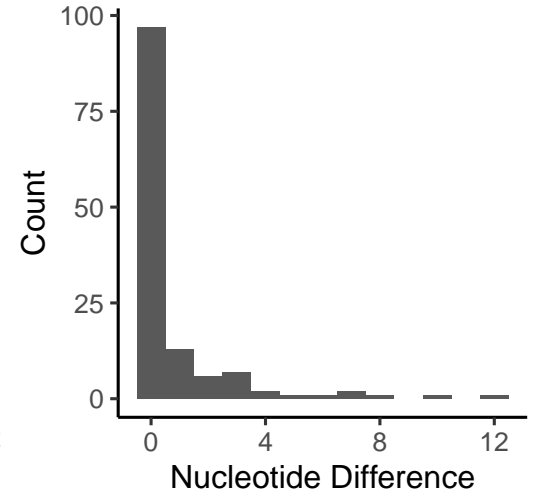
### IGKV1-16\*01

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



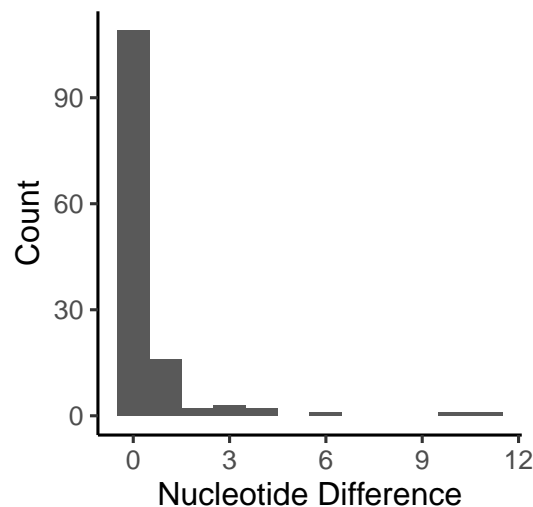
### IGKV1-27\*01

132 sequences assigned  
97 (73.5%) exact matches, in which:  
62 unique CDR3  
5 unique J



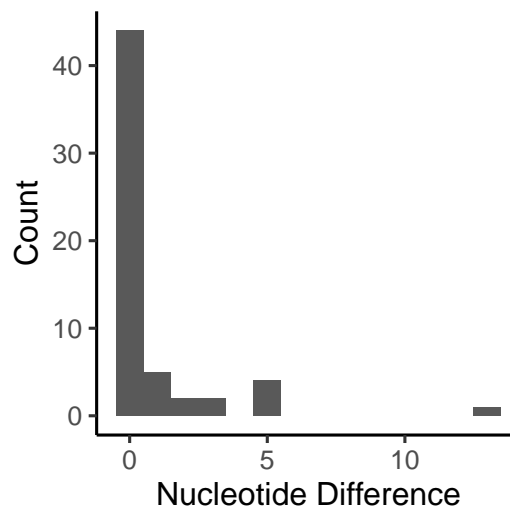
### IGKV1-8\*01

135 sequences assigned  
109 (80.7%) exact matches, in which:  
71 unique CDR3  
5 unique J



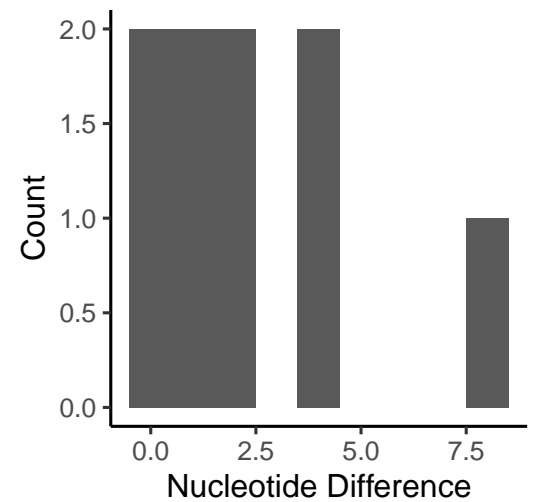
### IGKV1-16\*02

58 sequences assigned  
44 (75.9%) exact matches, in which:  
32 unique CDR3  
5 unique J



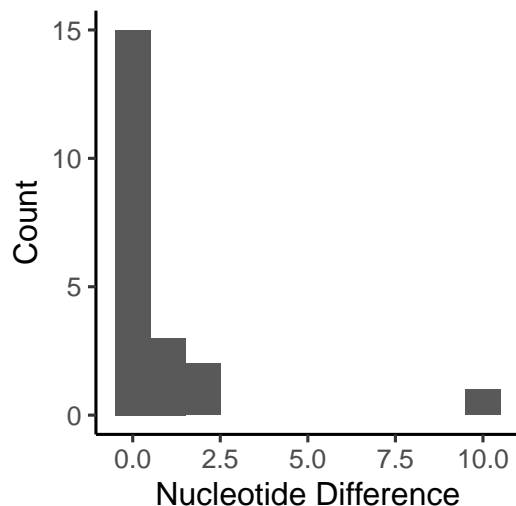
### IGKV2/OR22-4\*01

9 sequences assigned  
2 (22.2%) exact matches, in which:  
2 unique CDR3  
2 unique J



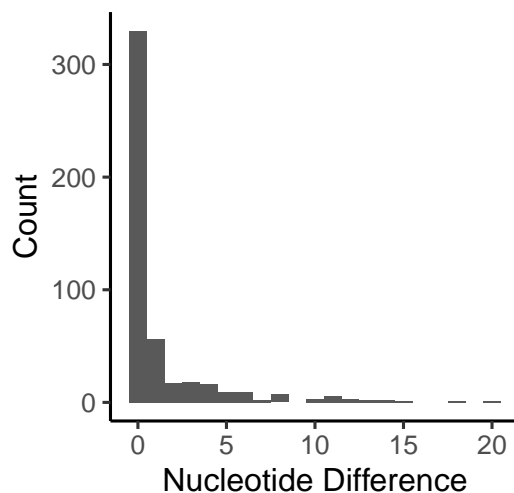
### IGKV2–24\*01

22 sequences assigned  
15 (68.2%) exact matches, in which:  
13 unique CDR3  
4 unique J



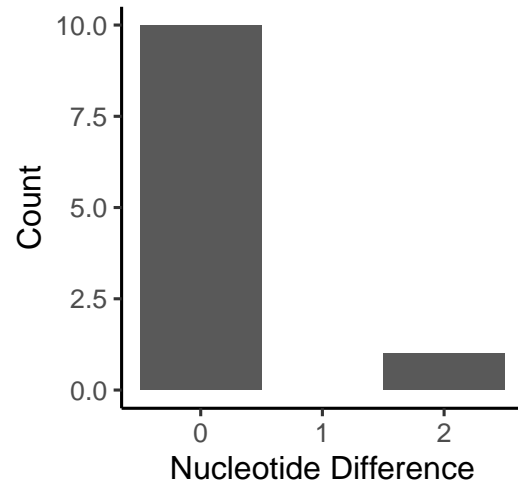
### IGKV3–15\*01

484 sequences assigned  
330 (68.2%) exact matches, in which:  
257 unique CDR3  
5 unique J



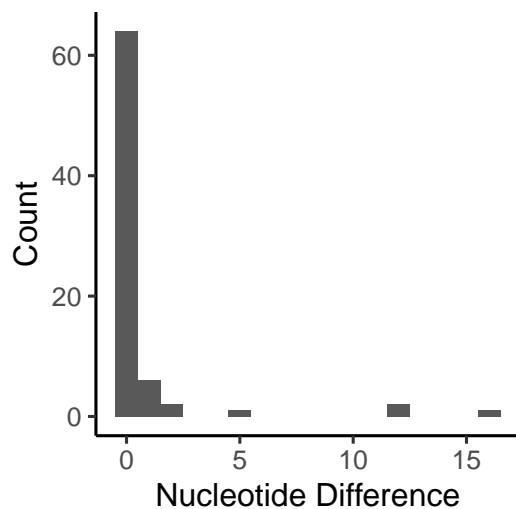
### IGKV5–2\*01

11 sequences assigned  
10 (90.9%) exact matches, in which:  
8 unique CDR3  
3 unique J



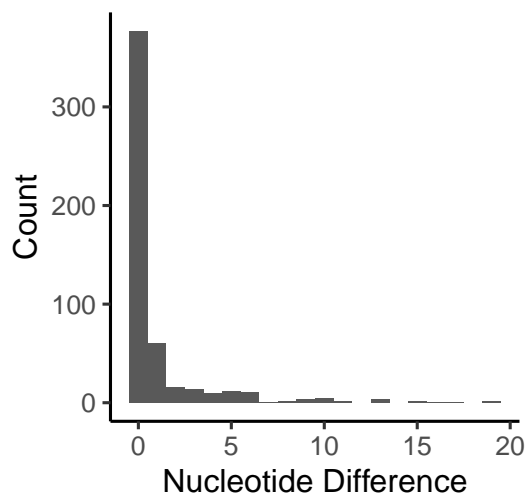
### IGKV2–30\*01

76 sequences assigned  
64 (84.2%) exact matches, in which:  
57 unique CDR3  
5 unique J



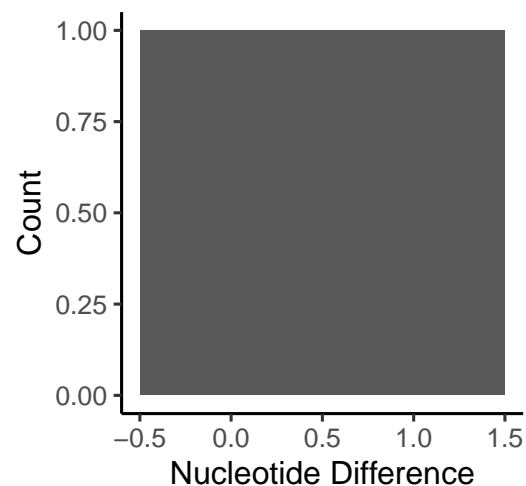
### IGKV3–20\*01

531 sequences assigned  
377 (71%) exact matches, in which:  
279 unique CDR3  
5 unique J



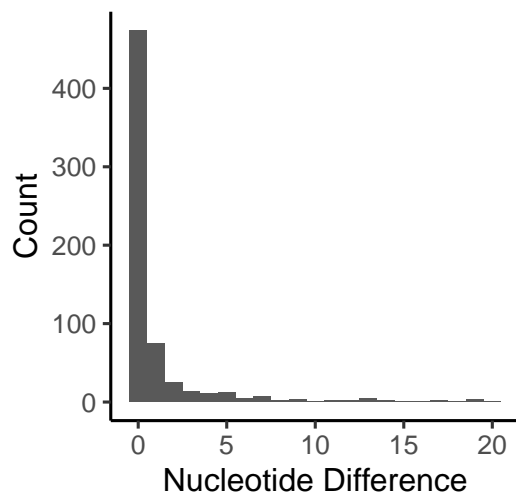
### IGKV7–3\*01

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



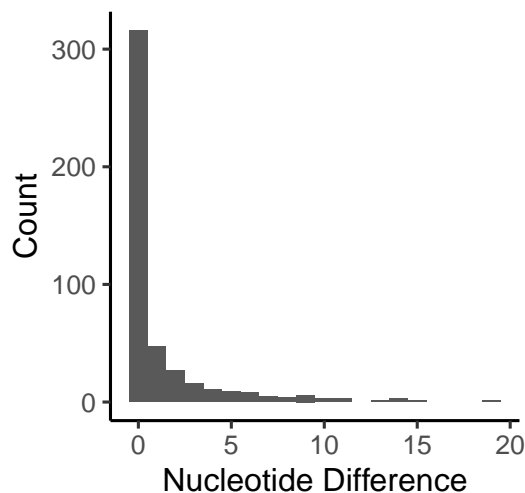
### IGKV3–11\*01

650 sequences assigned  
474 (72.9%) exact matches, in which:  
325 unique CDR3  
5 unique J



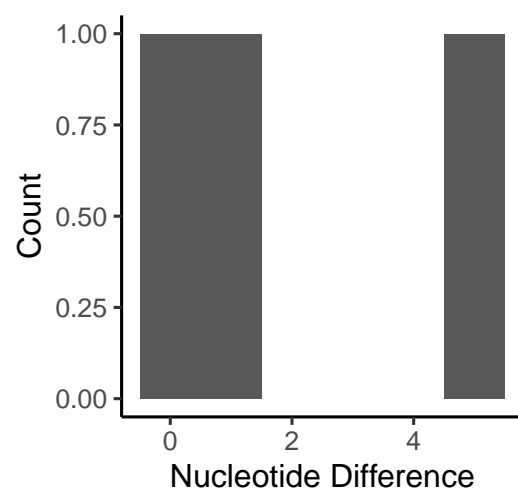
### IGKV4–1\*01

462 sequences assigned  
316 (68.4%) exact matches, in which:  
214 unique CDR3  
5 unique J



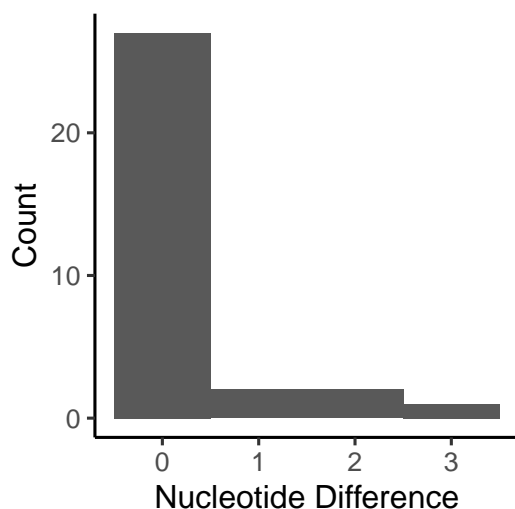
### IGKV3D–7\*01

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



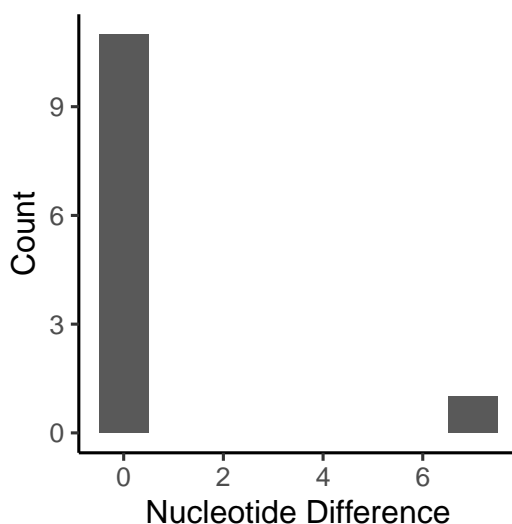
### IGKV1D-8\*01

32 sequences assigned  
27 (84.4%) exact matches, in which:  
16 unique CDR3  
4 unique J



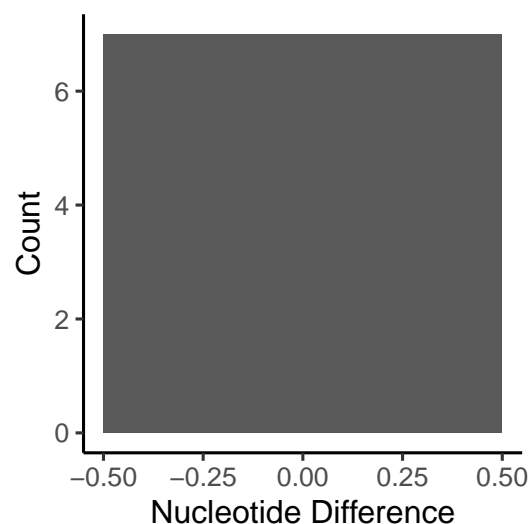
### IGKV1D-16\*01

12 sequences assigned  
11 (91.7%) exact matches, in which:  
10 unique CDR3  
4 unique J



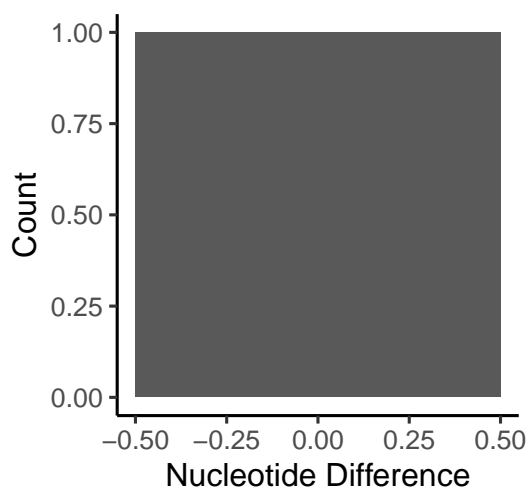
### IGKV2D-30\*01

7 sequences assigned  
7 (100%) exact matches, in which:  
7 unique CDR3  
4 unique J



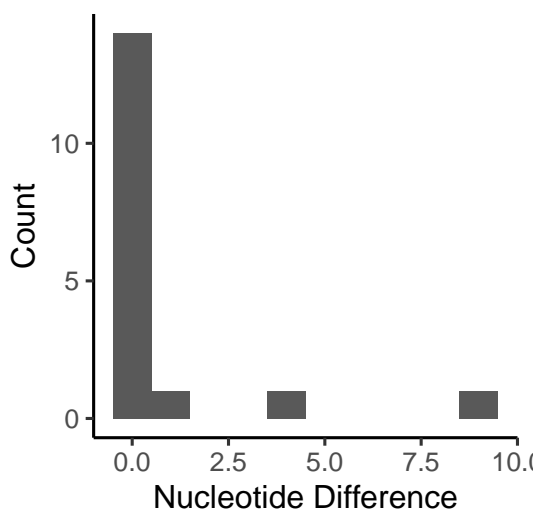
### IGKV3D-11\*01

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



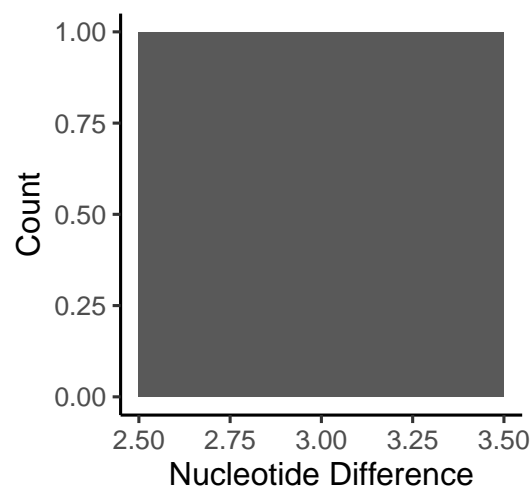
### IGKV3D-20\*01

17 sequences assigned  
14 (82.4%) exact matches, in which:  
12 unique CDR3  
5 unique J



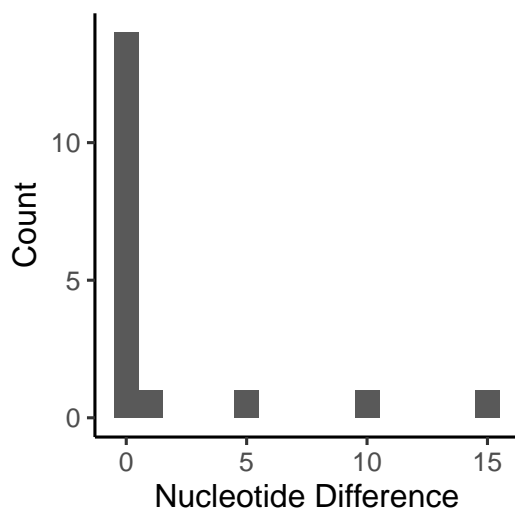
### IGKV6D-41\*01

1 sequences assigned  
No exact matches.



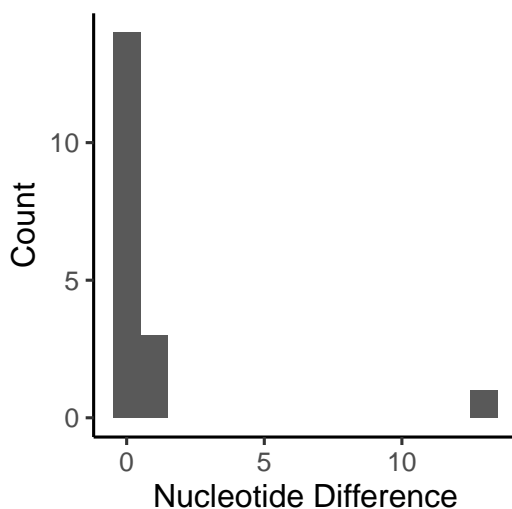
### IGKV3D-15\*01

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



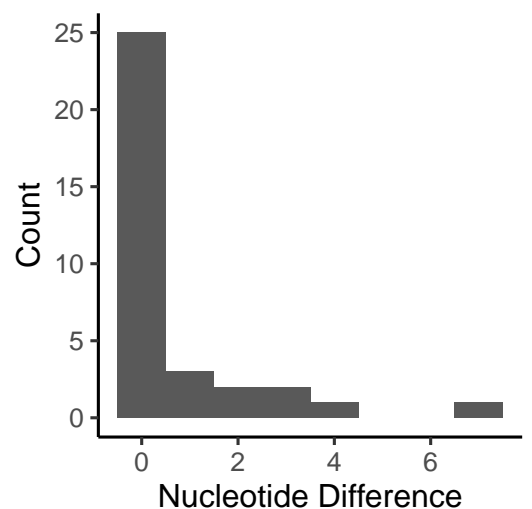
### IGKV2D-29\*01

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



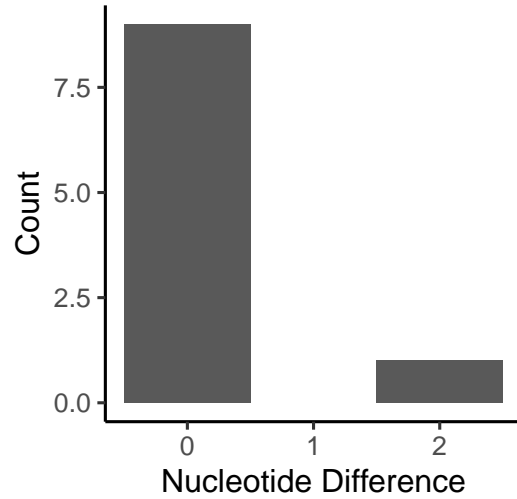
### IGKV1E-12\*01

34 sequences assigned  
25 (73.5%) exact matches, in which:  
15 unique CDR3  
5 unique J



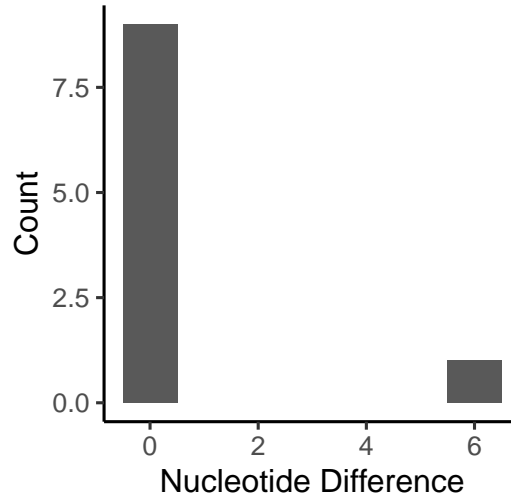
### IGKV1E-12\*02

10 sequences assigned  
9 (90%) exact matches, in which:  
5 unique CDR3  
5 unique J



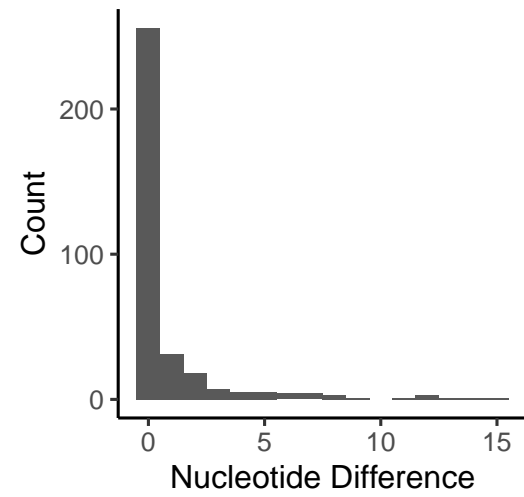
### IGKV6E-21\*01

10 sequences assigned  
9 (90%) exact matches, in which:  
6 unique CDR3  
4 unique J



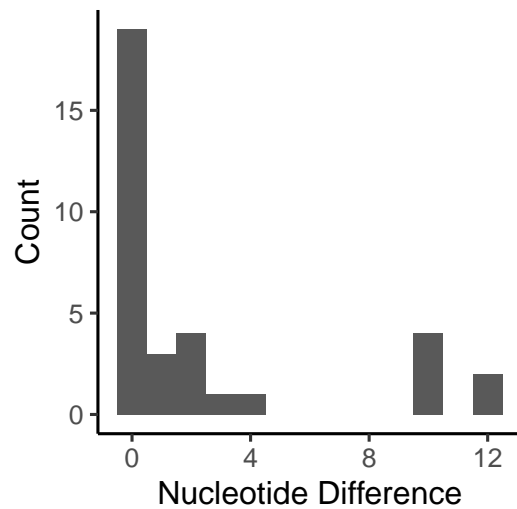
### IGKV1E-33\*01

341 sequences assigned  
256 (75.1%) exact matches, in which:  
165 unique CDR3  
5 unique J



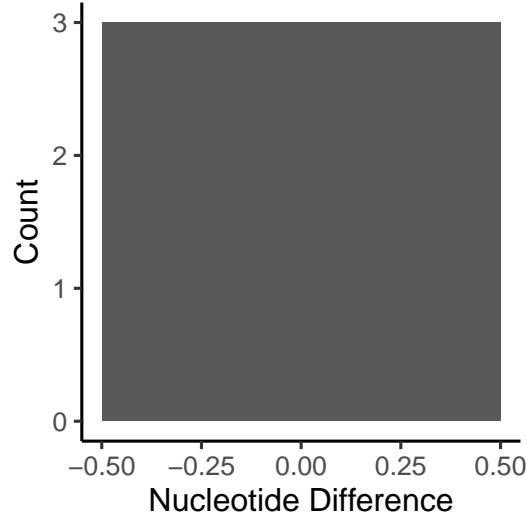
### IGKV1E-12\*03

34 sequences assigned  
19 (55.9%) exact matches, in which:  
10 unique CDR3  
5 unique J



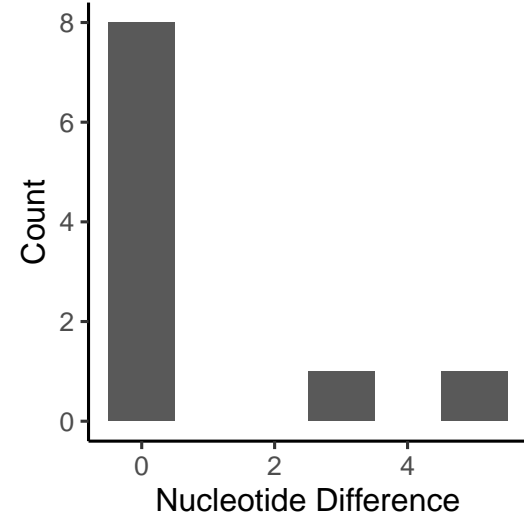
### IGKV6E-21\*03

3 sequences assigned  
3 (100%) exact matches, in which:  
3 unique CDR3  
3 unique J



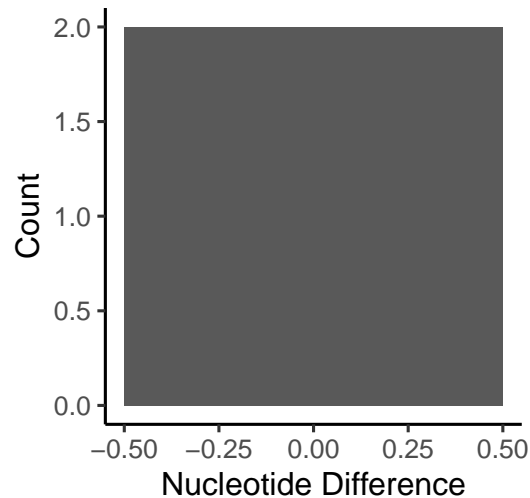
### IGKV1E-37\*01

10 sequences assigned  
8 (80%) exact matches, in which:  
8 unique CDR3  
4 unique J



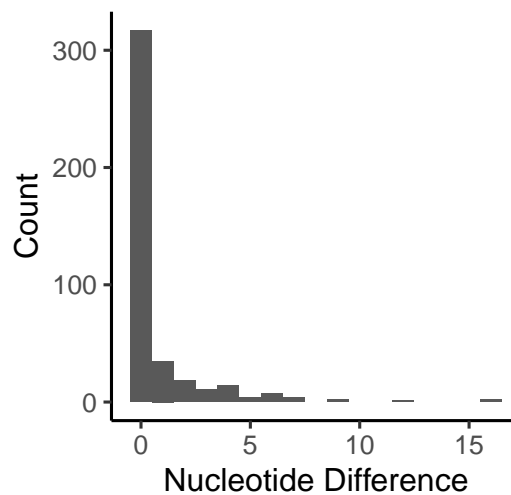
### IGKV1E-13\*03

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



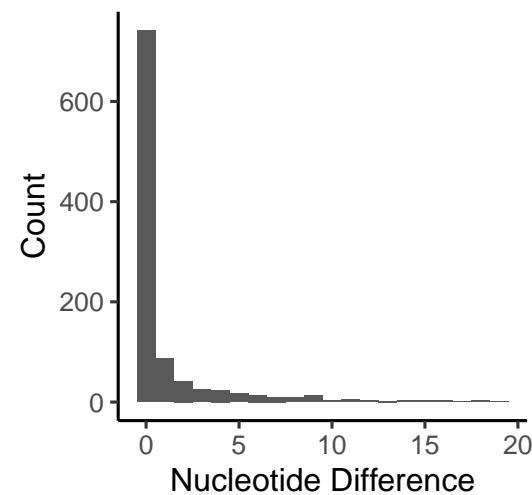
### IGKV2E-28\*01

416 sequences assigned  
317 (76.2%) exact matches, in which:  
226 unique CDR3  
5 unique J



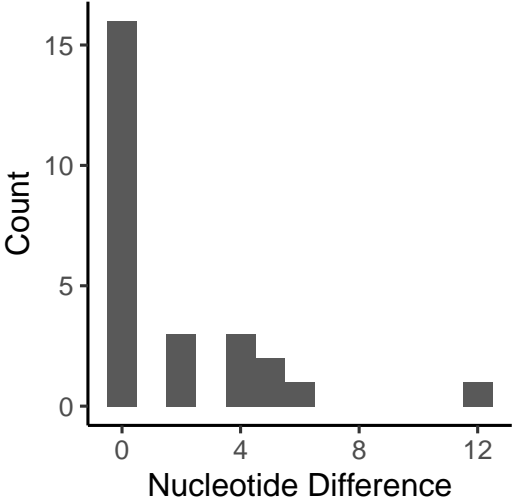
### IGKV1E-39\*01

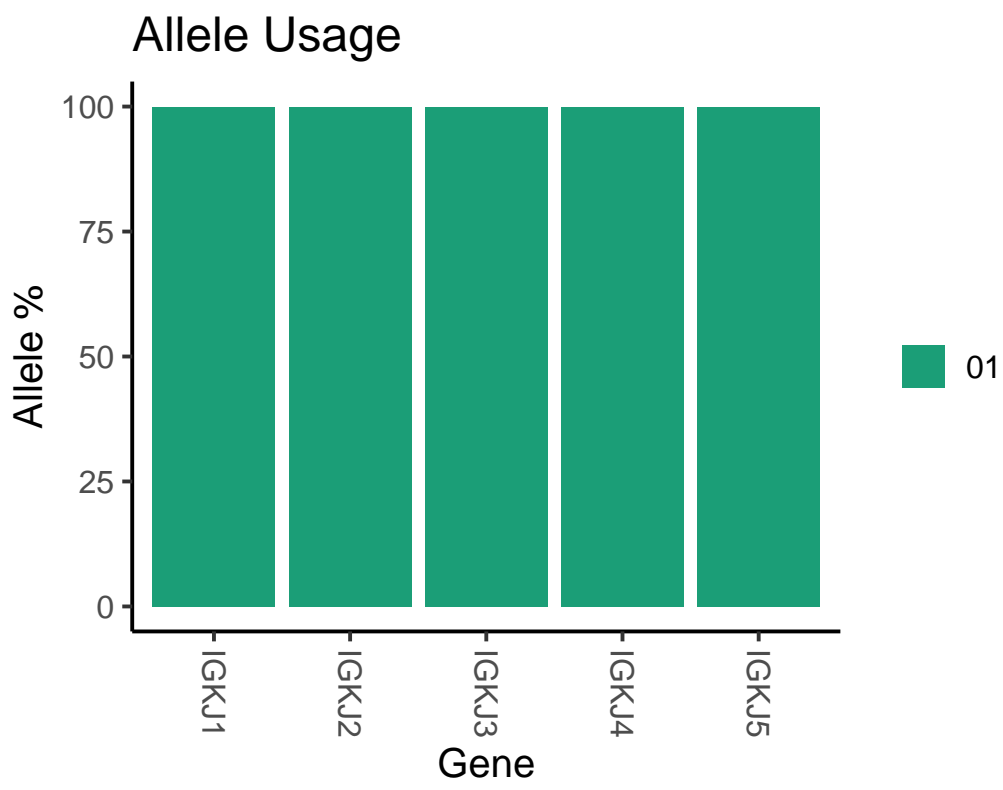
1023 sequences assigned  
742 (72.5%) exact matches, in which:  
399 unique CDR3  
5 unique J



# IGKV2E-40\*01

26 sequences assigned  
16 (61.5%) exact matches, in which:  
12 unique CDR3  
5 unique J





Warning – no inferred sequences found.