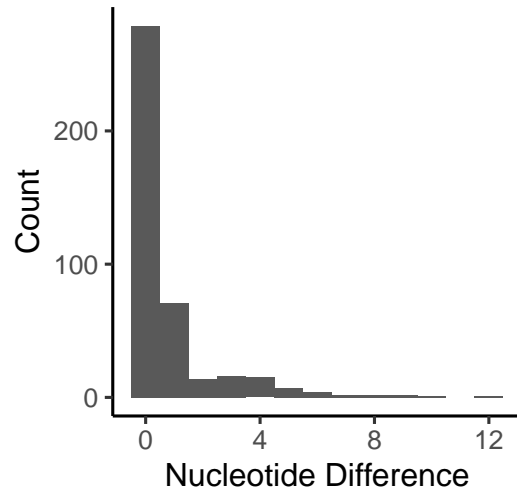


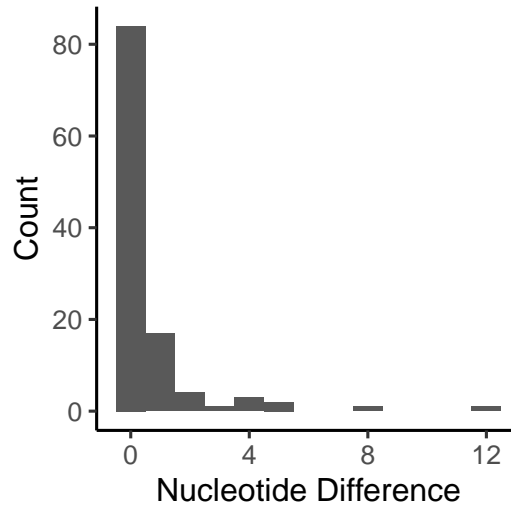
### IGKV1-5\*03

414 sequences assigned  
279 (67.4%) exact matches, in which:  
246 unique CDR3  
5 unique J



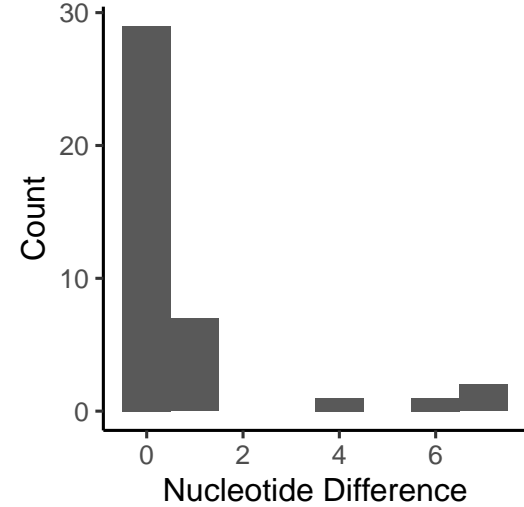
### IGKV1-9\*01

113 sequences assigned  
84 (74.3%) exact matches, in which:  
75 unique CDR3  
5 unique J



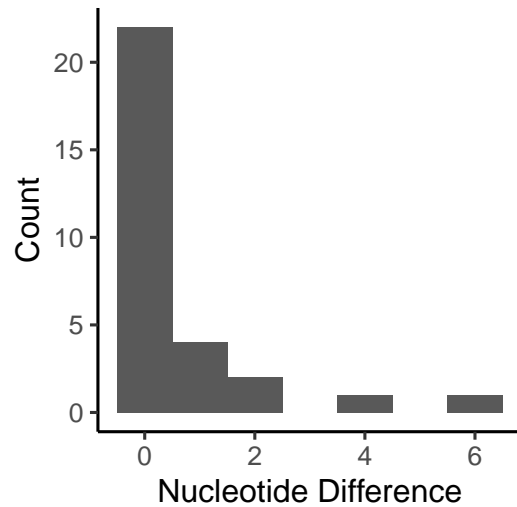
### IGKV1-17\*01

40 sequences assigned  
29 (72.5%) exact matches, in which:  
27 unique CDR3  
4 unique J



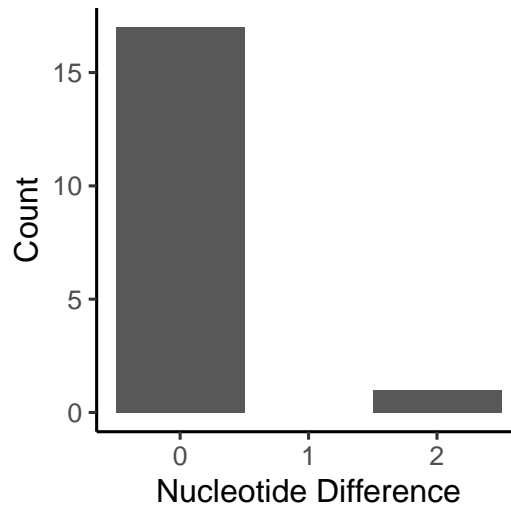
### IGKV1-6\*01

30 sequences assigned  
22 (73.3%) exact matches, in which:  
19 unique CDR3  
4 unique J



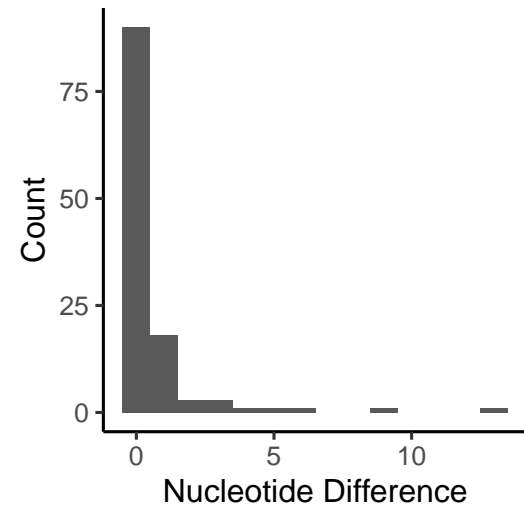
### IGKV1-9\*01\_A229C

18 sequences assigned  
17 (94.4%) exact matches, in which:  
16 unique CDR3  
5 unique J



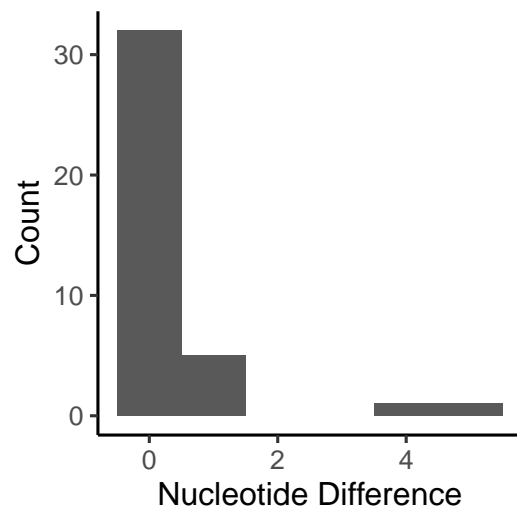
### IGKV1-27\*01

119 sequences assigned  
90 (75.6%) exact matches, in which:  
79 unique CDR3  
5 unique J



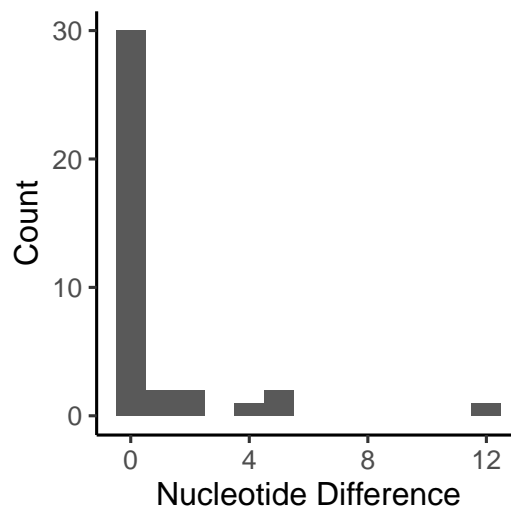
### IGKV1-8\*01

39 sequences assigned  
32 (82.1%) exact matches, in which:  
26 unique CDR3  
5 unique J



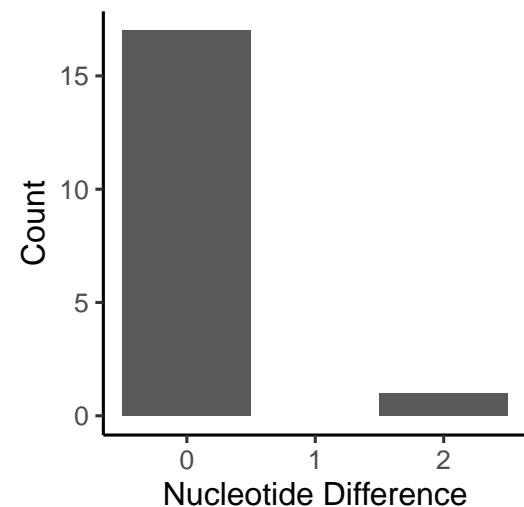
### IGKV1-16\*02

38 sequences assigned  
30 (78.9%) exact matches, in which:  
27 unique CDR3  
5 unique J



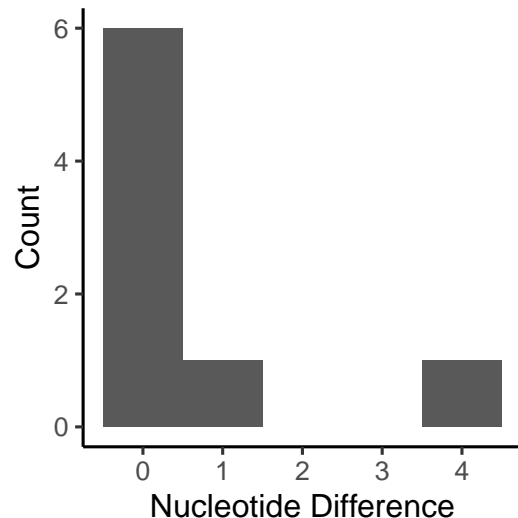
### IGKV1-27\*01\_A229C

18 sequences assigned  
17 (94.4%) exact matches, in which:  
17 unique CDR3  
4 unique J



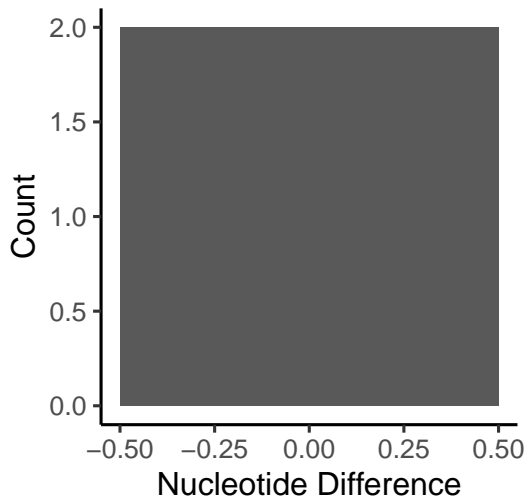
### IGKV2–24\*01

8 sequences assigned  
6 (75%) exact matches, in which:  
6 unique CDR3  
2 unique J



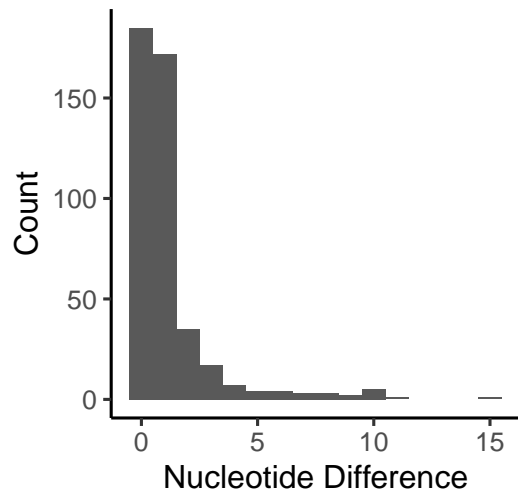
### IGKV3–7\*04

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



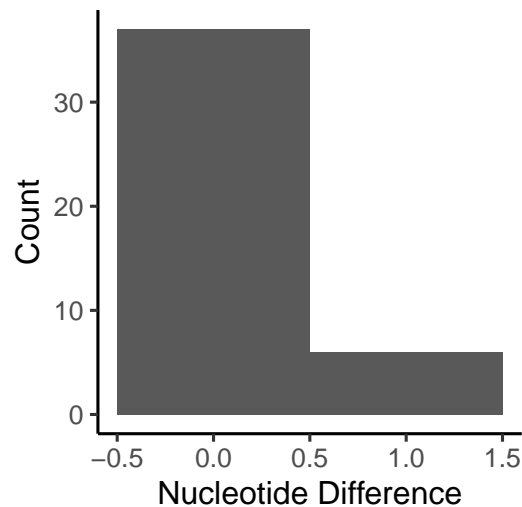
### IGKV3–20\*01

442 sequences assigned  
185 (41.9%) exact matches, in which:  
157 unique CDR3  
5 unique J



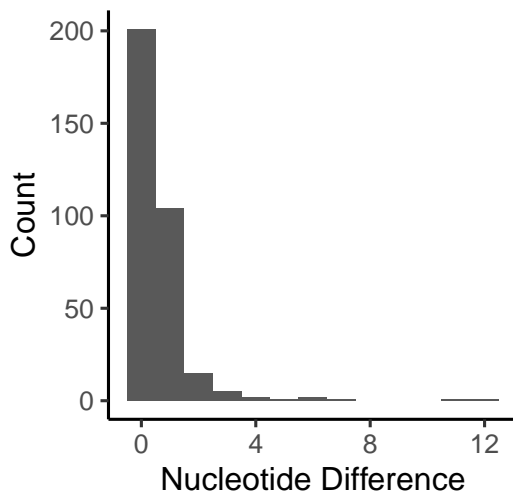
### IGKV2–30\*01

43 sequences assigned  
37 (86%) exact matches, in which:  
37 unique CDR3  
5 unique J



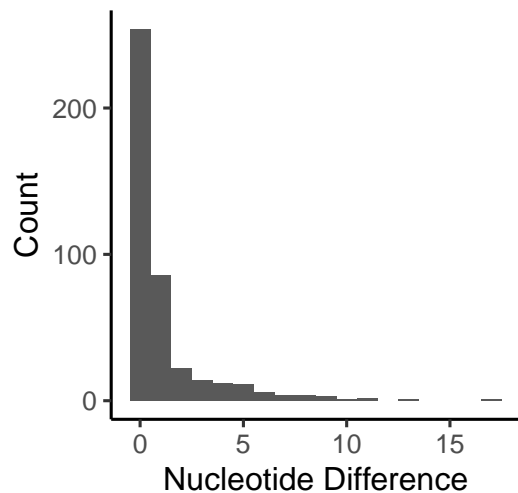
### IGKV3–11\*01

333 sequences assigned  
201 (60.4%) exact matches, in which:  
171 unique CDR3  
5 unique J



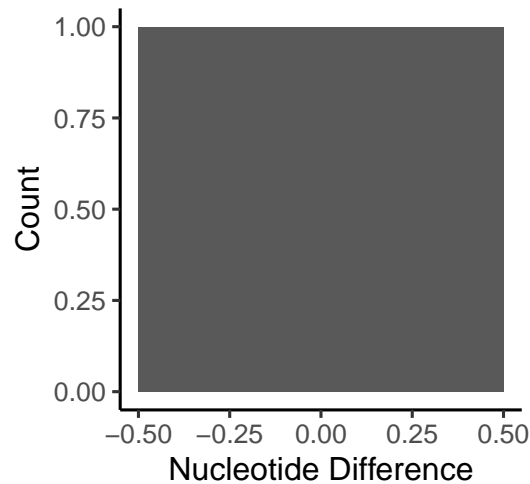
### IGKV4–1\*01

421 sequences assigned  
254 (60.3%) exact matches, in which:  
211 unique CDR3  
5 unique J



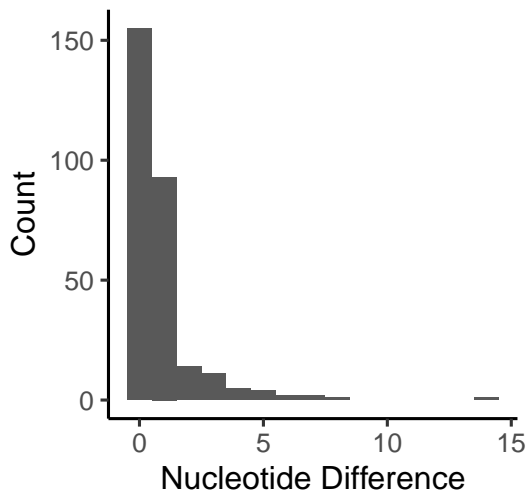
### IGKV3–7\*01

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



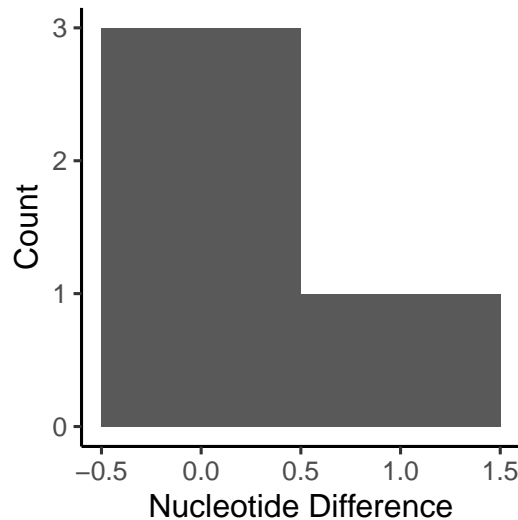
### IGKV3–15\*01

288 sequences assigned  
155 (53.8%) exact matches, in which:  
131 unique CDR3  
5 unique J



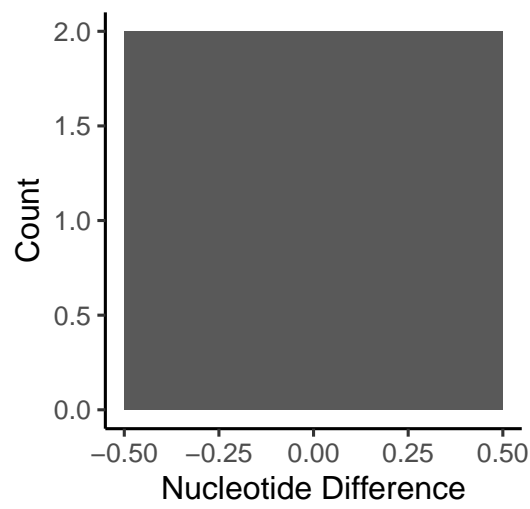
### IGKV5–2\*01

4 sequences assigned  
3 (75%) exact matches, in which:  
3 unique CDR3  
3 unique J



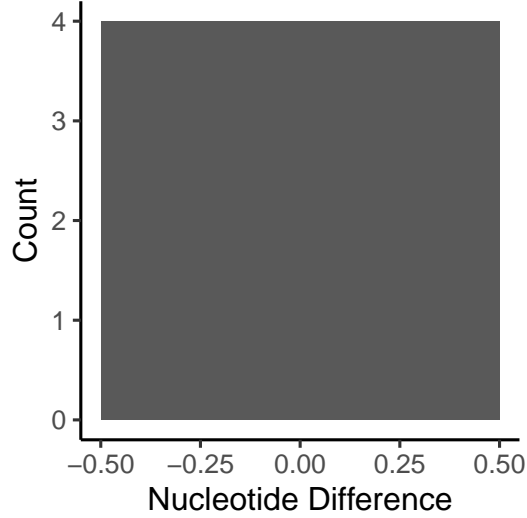
### IGKV7-3\*01

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



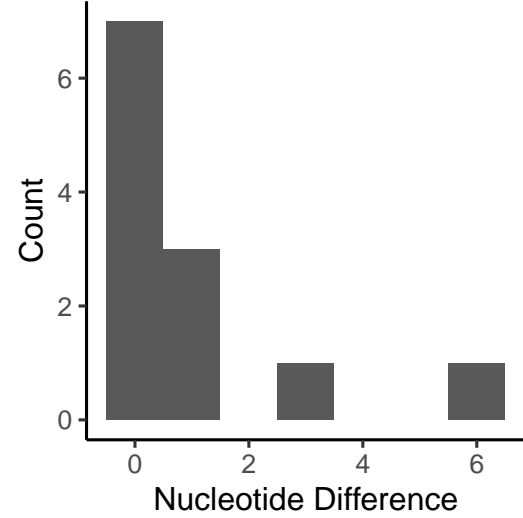
### IGKV3D-11\*01

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



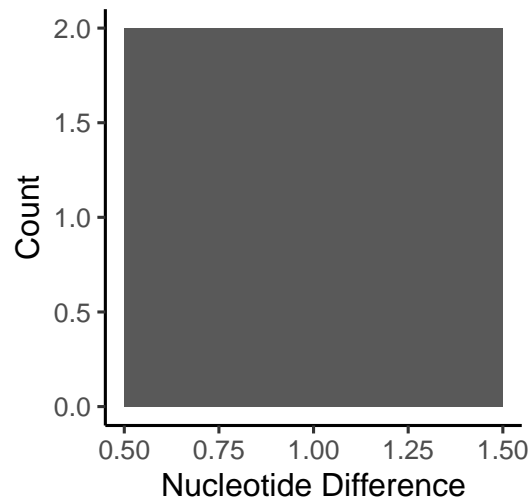
### IGKV3D-20\*01

12 sequences assigned  
7 (58.3%) exact matches, in which:  
7 unique CDR3  
5 unique J



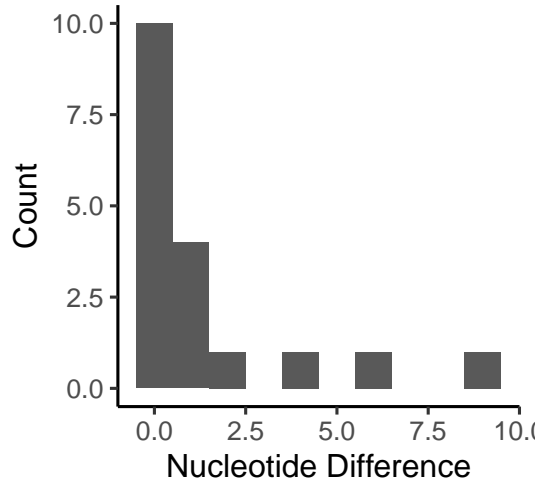
### IGKV3D-7\*01

2 sequences assigned  
No exact matches.



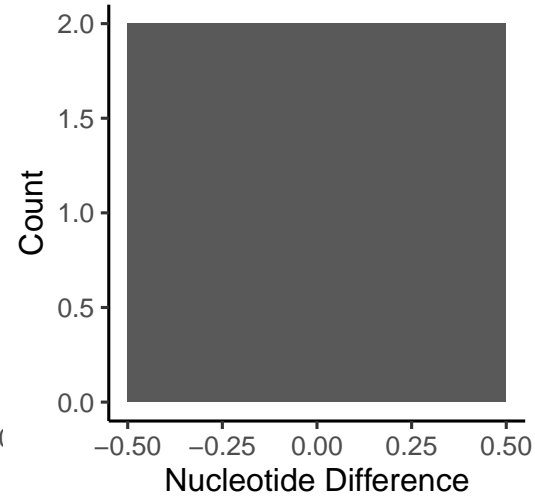
### IGKV3D-15\*01

18 sequences assigned  
10 (55.6%) exact matches, in which:  
10 unique CDR3  
4 unique J



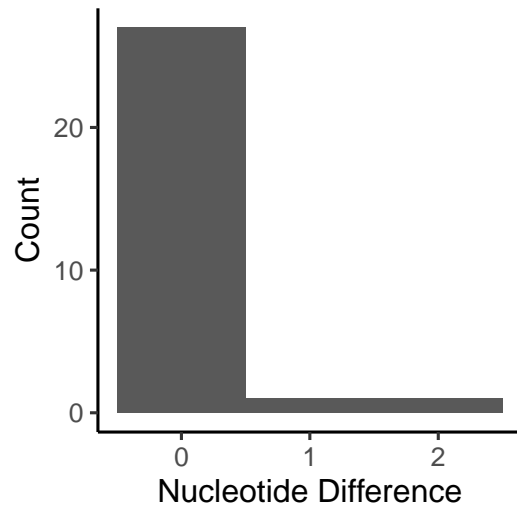
### IGKV2D-24\*01

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



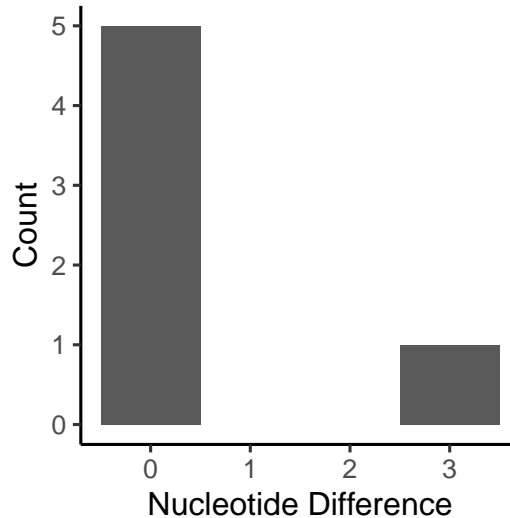
### IGKV1D-8\*01

29 sequences assigned  
27 (93.1%) exact matches, in which:  
23 unique CDR3  
5 unique J



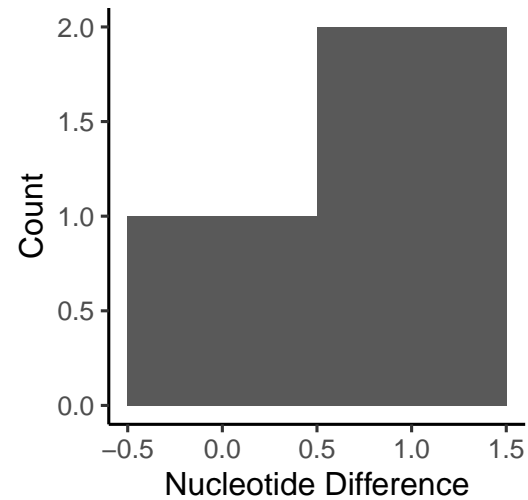
### IGKV1D-16\*01

6 sequences assigned  
5 (83.3%) exact matches, in which:  
5 unique CDR3  
3 unique J



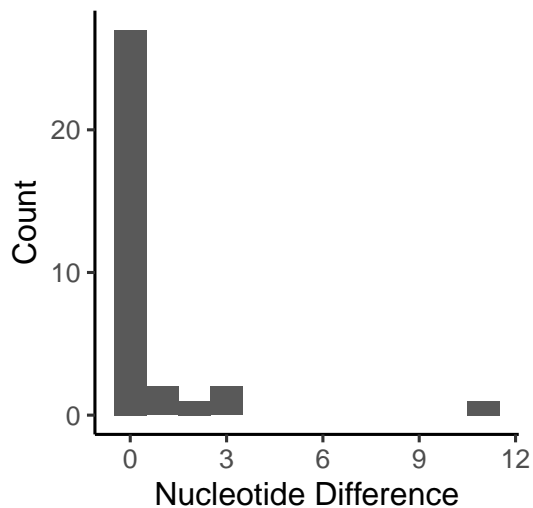
### IGKV2D-26\*03

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



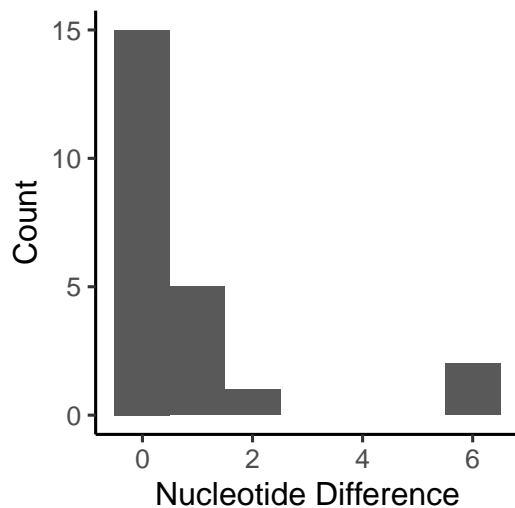
### IGKV2D-29\*01

33 sequences assigned  
27 (81.8%) exact matches, in which:  
26 unique CDR3  
5 unique J



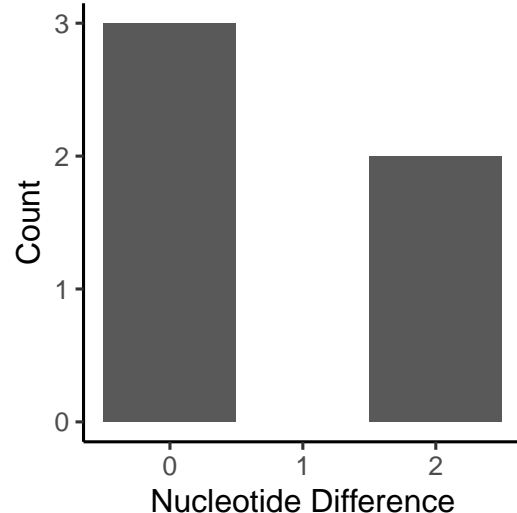
### IGKV1E-12\*01

23 sequences assigned  
15 (65.2%) exact matches, in which:  
15 unique CDR3  
5 unique J



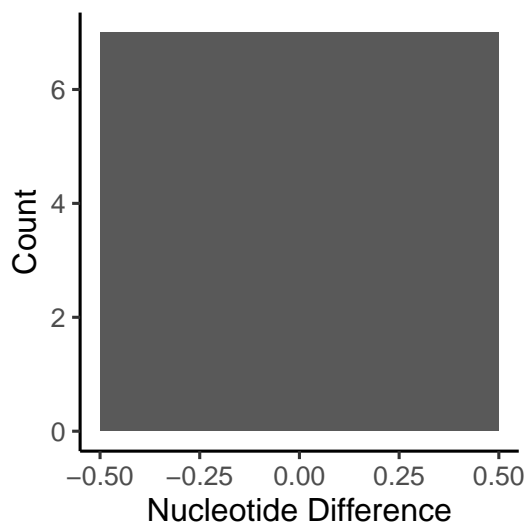
### IGKV1E-13\*03

5 sequences assigned  
3 (60%) exact matches, in which:  
3 unique CDR3  
2 unique J



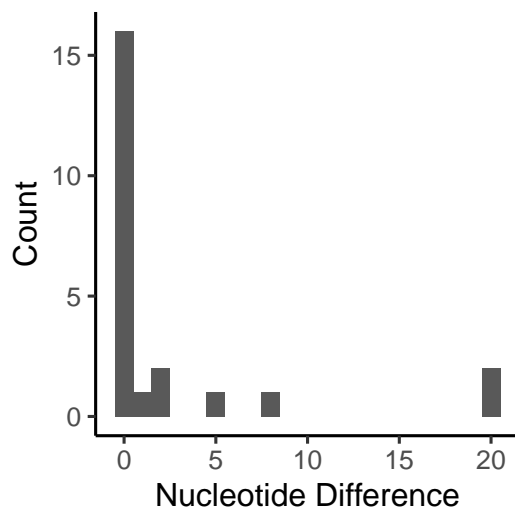
### IGKV2D-30\*01

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



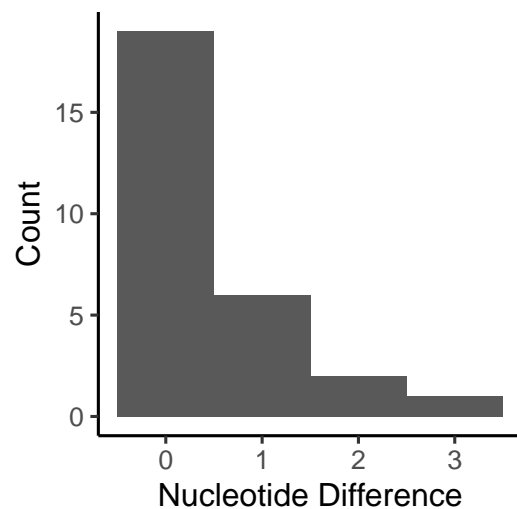
### IGKV1E-12\*03

23 sequences assigned  
16 (69.6%) exact matches, in which:  
14 unique CDR3  
5 unique J



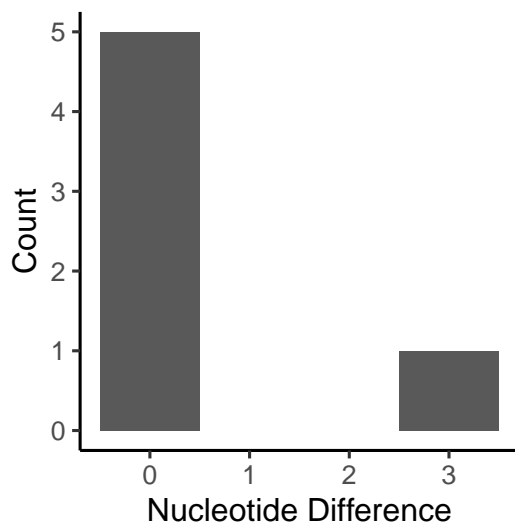
### IGKV6E-21\*01

28 sequences assigned  
19 (67.9%) exact matches, in which:  
18 unique CDR3  
4 unique J



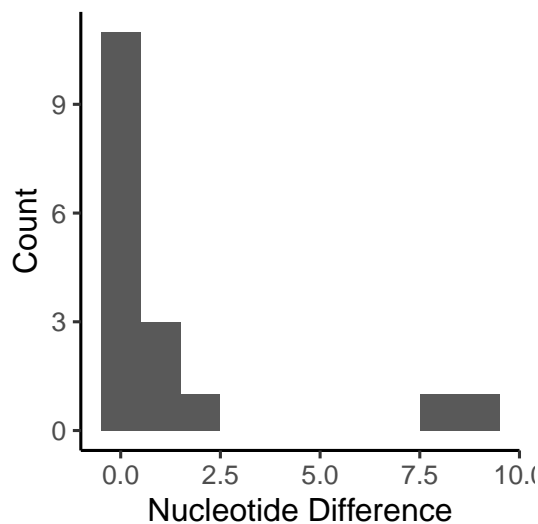
### IGKV1D-43\*01

6 sequences assigned  
5 (83.3%) exact matches, in which:  
5 unique CDR3  
3 unique J



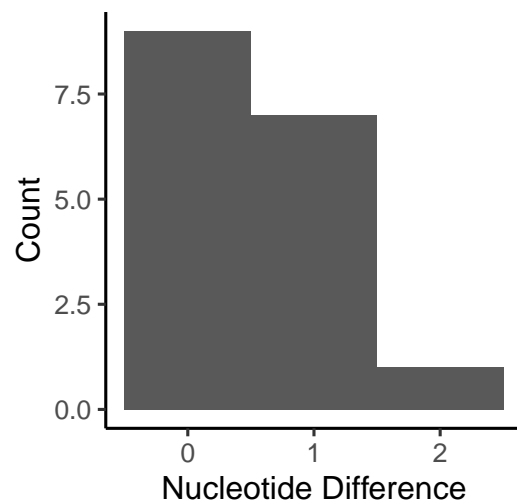
### IGKV1E-12\*01\_C74T

17 sequences assigned  
11 (64.7%) exact matches, in which:  
11 unique CDR3  
2 unique J



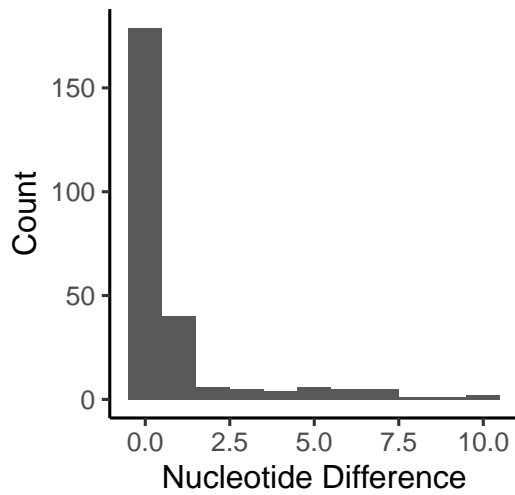
### IGKV6E-21\*03

17 sequences assigned  
9 (52.9%) exact matches, in which:  
9 unique CDR3  
5 unique J



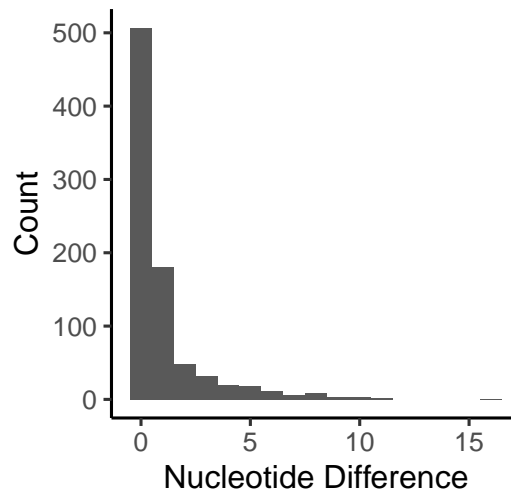
### IGKV2E-28\*01

254 sequences assigned  
179 (70.5%) exact matches, in which:  
157 unique CDR3  
5 unique J



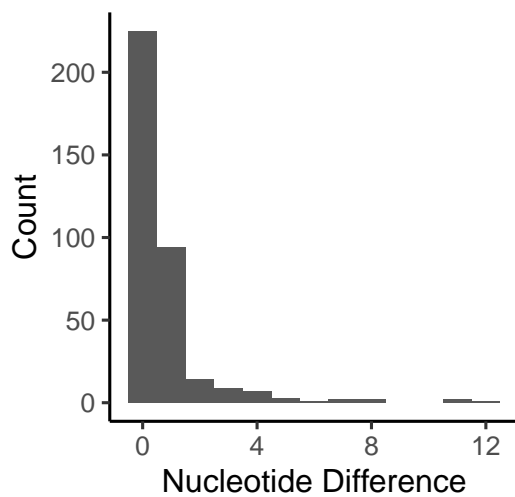
### IGKV1E-39\*01

842 sequences assigned  
507 (60.2%) exact matches, in which:  
420 unique CDR3  
5 unique J



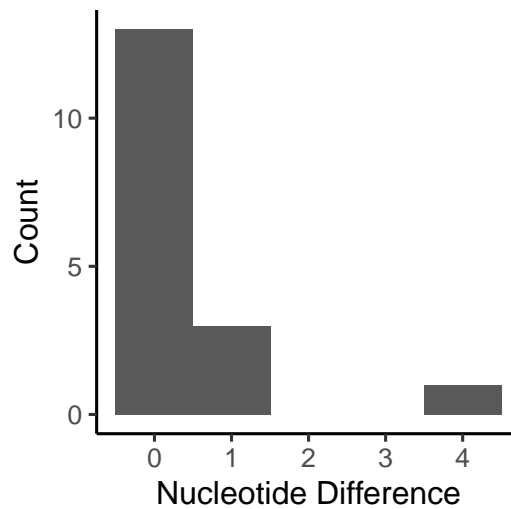
### IGKV1E-33\*01

360 sequences assigned  
225 (62.5%) exact matches, in which:  
194 unique CDR3  
5 unique J



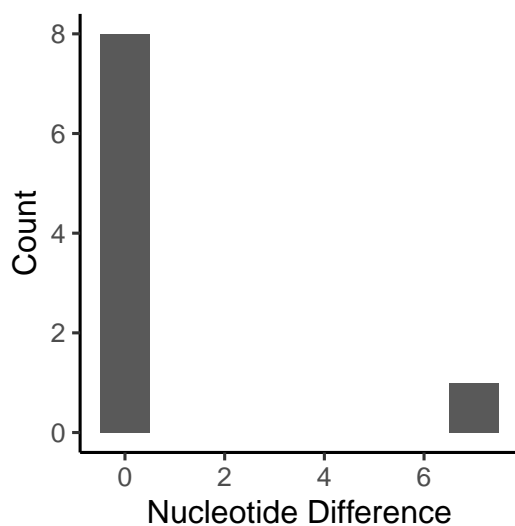
### IGKV2E-40\*01

17 sequences assigned  
13 (76.5%) exact matches, in which:  
12 unique CDR3  
4 unique J



### IGKV1E-37\*01

9 sequences assigned  
8 (88.9%) exact matches, in which:  
8 unique CDR3  
4 unique J





Warning – no inferred sequences found.