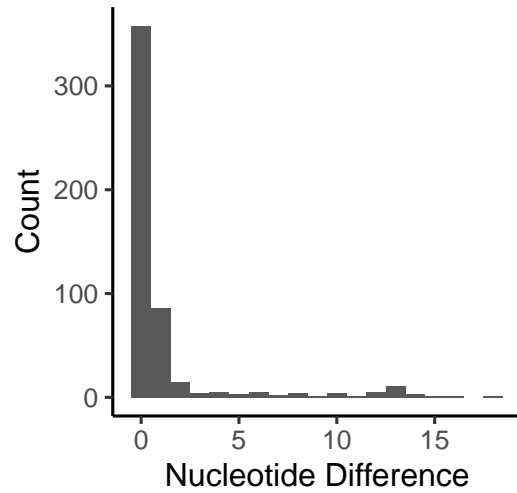


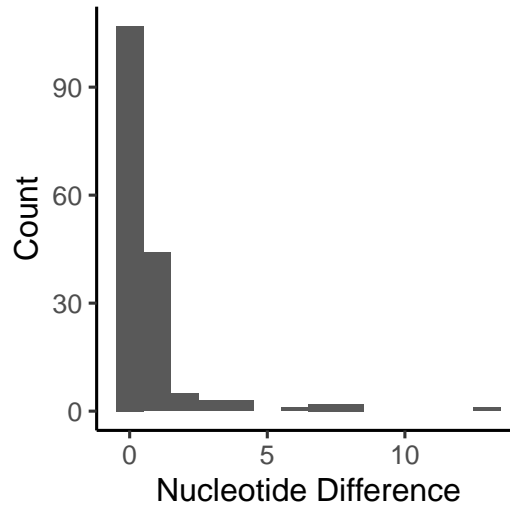
### IGKV1-5\*03

510 sequences assigned  
358 (70.2%) exact matches, in which:  
289 unique CDR3  
5 unique J



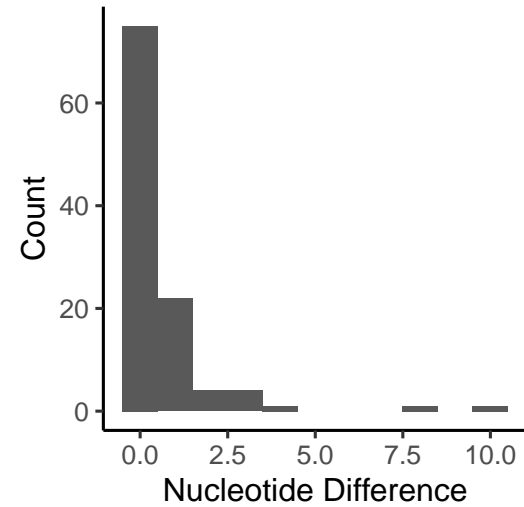
### IGKV1-9\*01

168 sequences assigned  
107 (63.7%) exact matches, in which:  
89 unique CDR3  
5 unique J



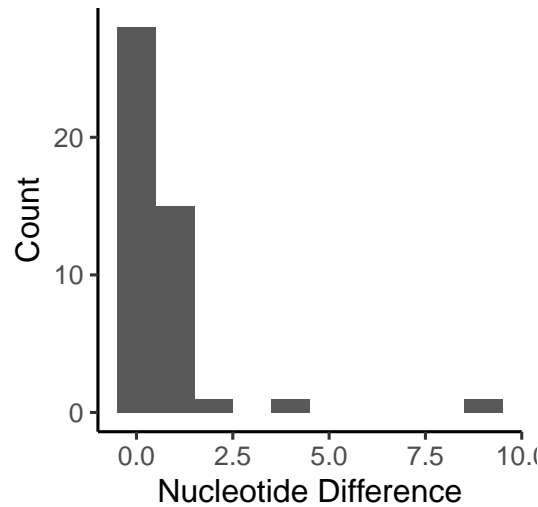
### IGKV1-27\*01

109 sequences assigned  
75 (68.8%) exact matches, in which:  
68 unique CDR3  
5 unique J



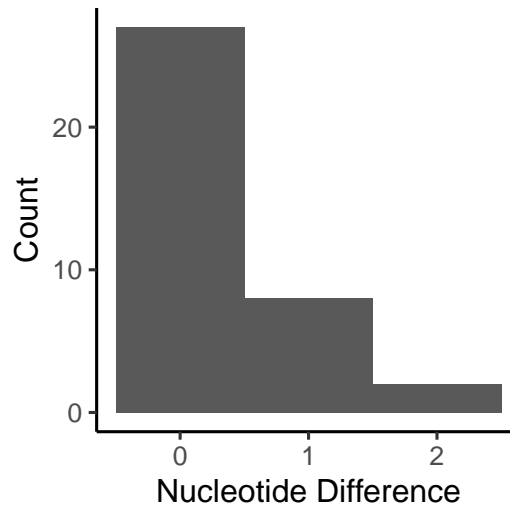
### IGKV1-6\*01

46 sequences assigned  
28 (60.9%) exact matches, in which:  
23 unique CDR3  
3 unique J



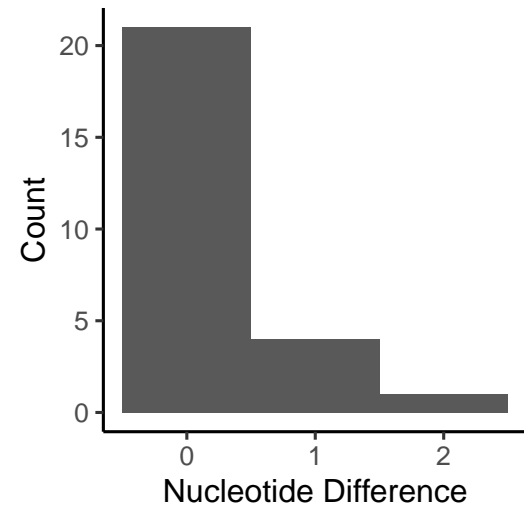
### IGKV1-16\*02

37 sequences assigned  
27 (73%) exact matches, in which:  
24 unique CDR3  
5 unique J



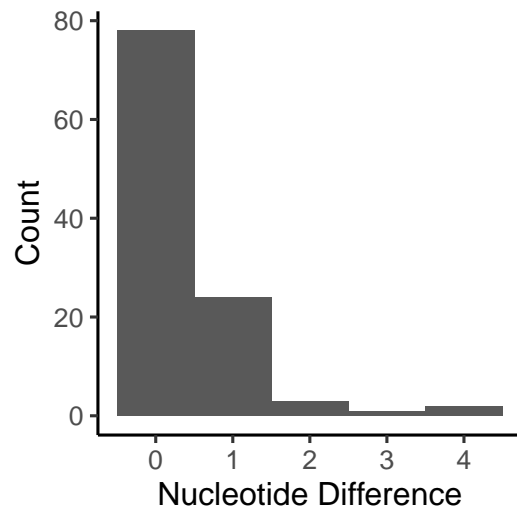
### IGKV1-27\*01\_A229C

26 sequences assigned  
21 (80.8%) exact matches, in which:  
21 unique CDR3  
4 unique J



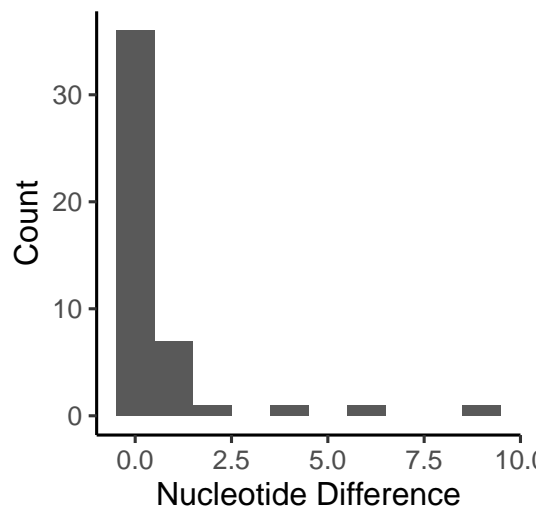
### IGKV1-8\*01

108 sequences assigned  
78 (72.2%) exact matches, in which:  
59 unique CDR3  
5 unique J



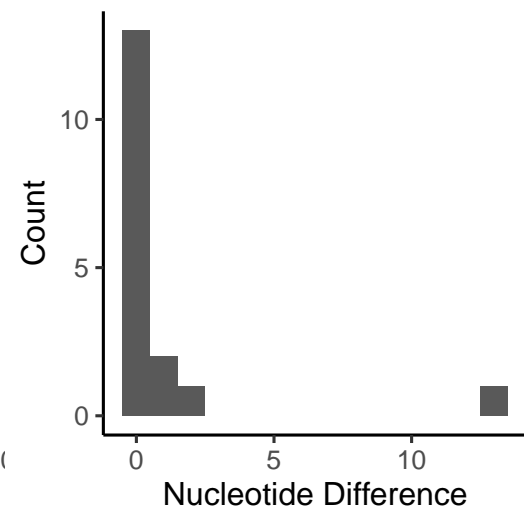
### IGKV1-17\*01

47 sequences assigned  
36 (76.6%) exact matches, in which:  
33 unique CDR3  
5 unique J



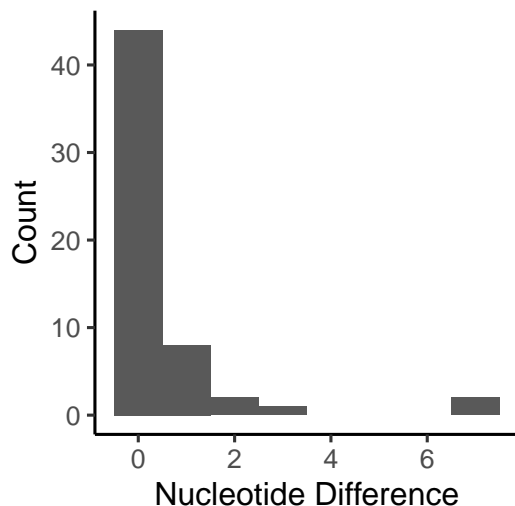
### IGKV2-24\*01

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



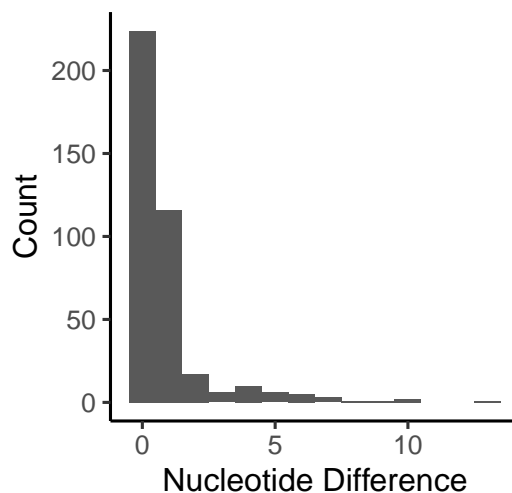
### IGKV2–30\*01

57 sequences assigned  
44 (77.2%) exact matches, in which:  
42 unique CDR3  
5 unique J



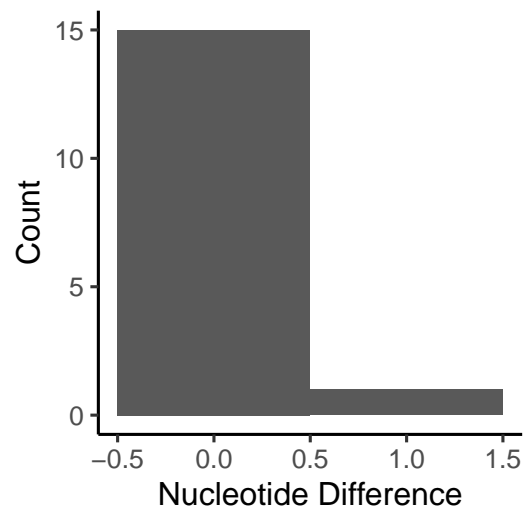
### IGKV3–15\*01

392 sequences assigned  
224 (57.1%) exact matches, in which:  
190 unique CDR3  
5 unique J



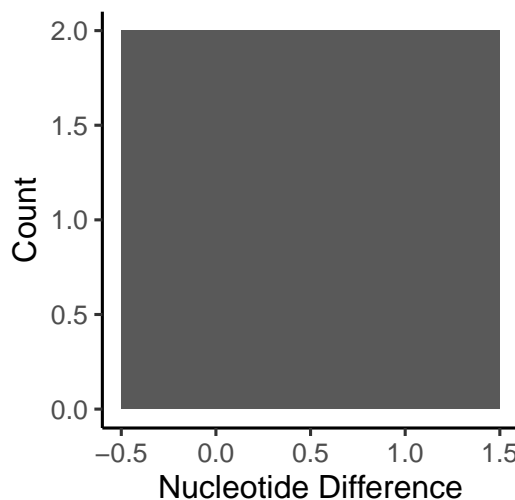
### IGKV5–2\*01

16 sequences assigned  
15 (93.8%) exact matches, in which:  
15 unique CDR3  
3 unique J



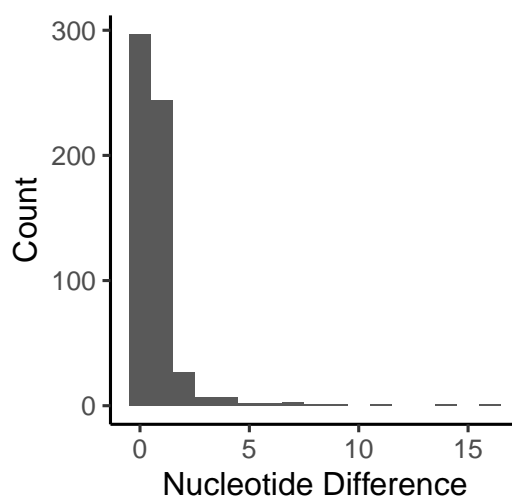
### IGKV3–7\*04

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



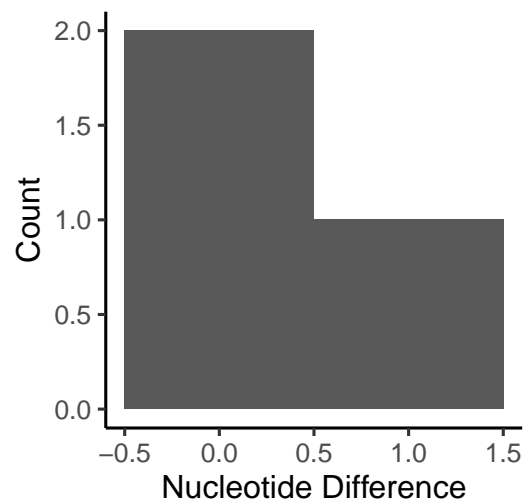
### IGKV3–20\*01

594 sequences assigned  
297 (50%) exact matches, in which:  
242 unique CDR3  
5 unique J



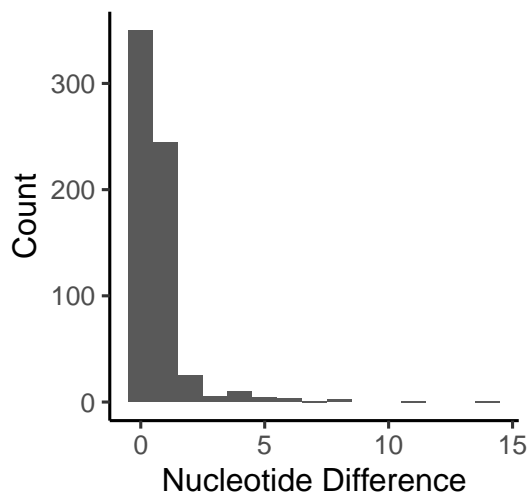
### IGKV7–3\*01

3 sequences assigned  
2 (66.7%) exact matches, in which:  
2 unique CDR3  
1 unique J



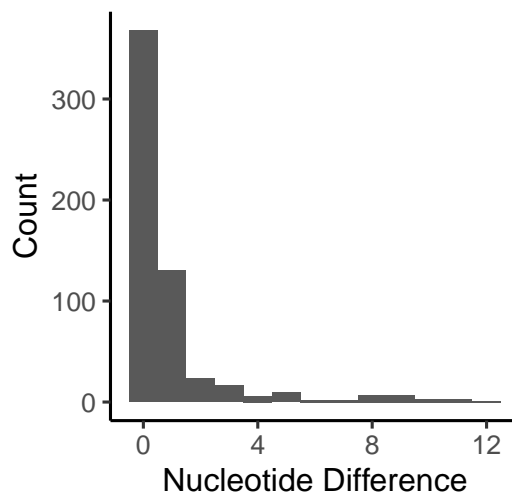
### IGKV3–11\*01

646 sequences assigned  
350 (54.2%) exact matches, in which:  
268 unique CDR3  
5 unique J



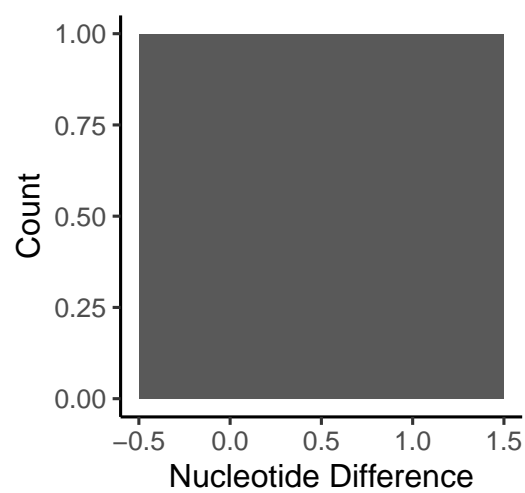
### IGKV4–1\*01

577 sequences assigned  
368 (63.8%) exact matches, in which:  
285 unique CDR3  
5 unique J



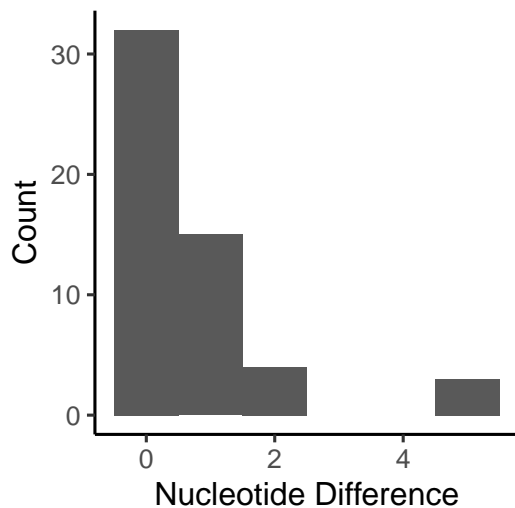
### IGKV3D–7\*01

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



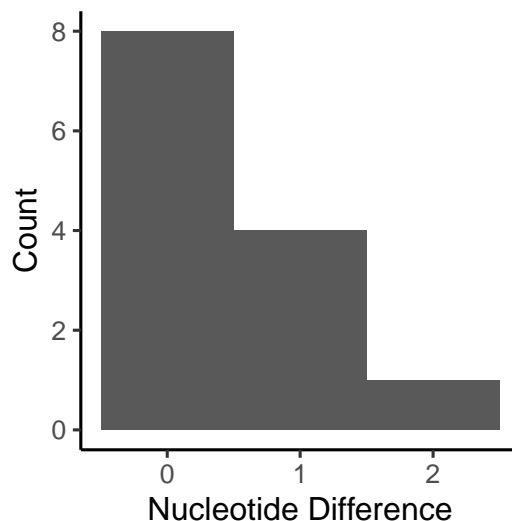
### IGKV1D-8\*01

54 sequences assigned  
32 (59.3%) exact matches, in which:  
27 unique CDR3  
5 unique J



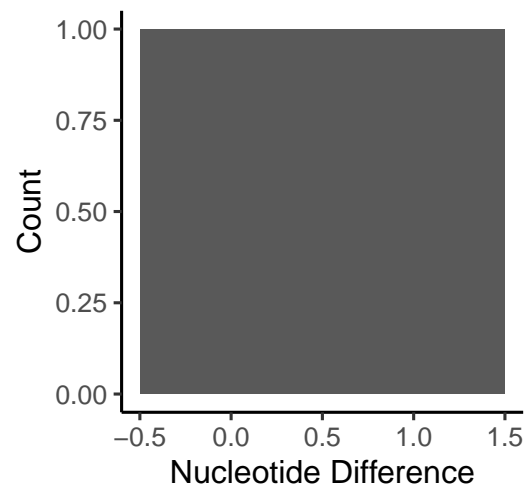
### IGKV1D-16\*01

13 sequences assigned  
8 (61.5%) exact matches, in which:  
7 unique CDR3  
5 unique J



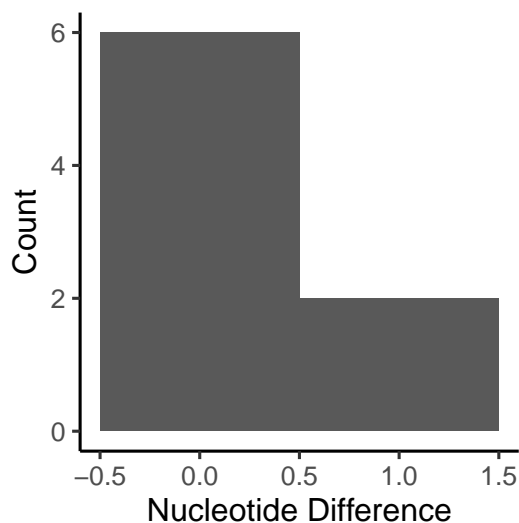
### IGKV2D-26\*03

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



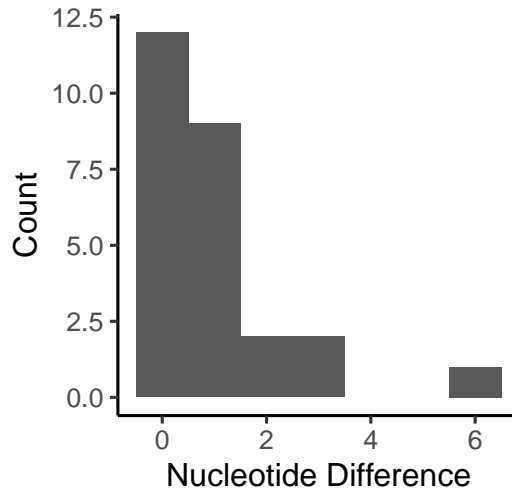
### IGKV3D-11\*01

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



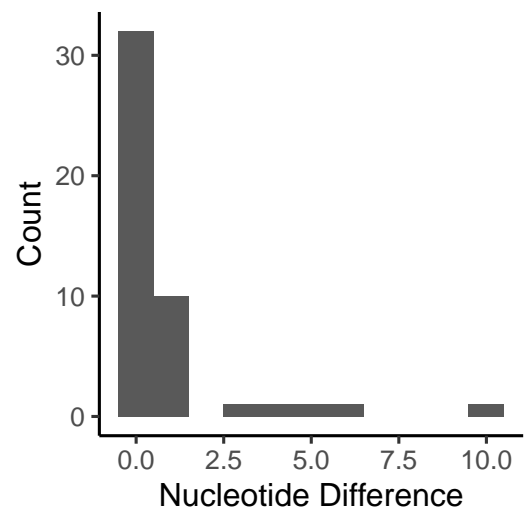
### IGKV3D-20\*01

26 sequences assigned  
12 (46.2%) exact matches, in which:  
11 unique CDR3  
5 unique J



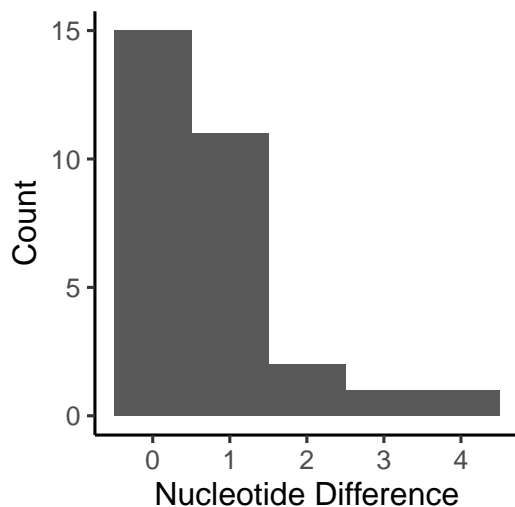
### IGKV2D-29\*01

47 sequences assigned  
32 (68.1%) exact matches, in which:  
29 unique CDR3  
5 unique J



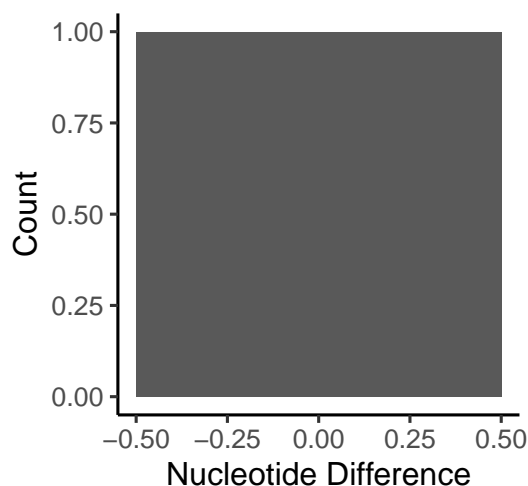
### IGKV3D-15\*01

30 sequences assigned  
15 (50%) exact matches, in which:  
14 unique CDR3  
4 unique J



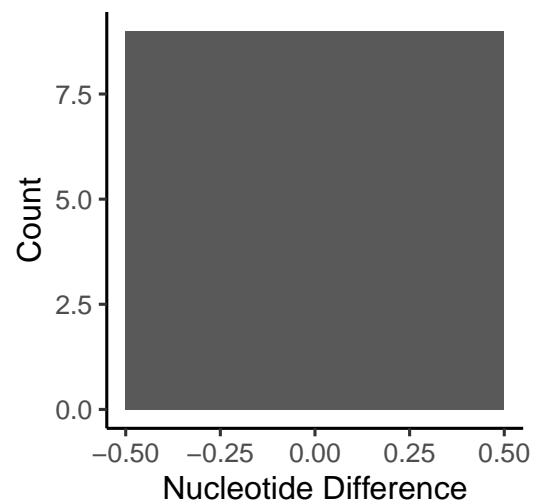
### IGKV2D-24\*01

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



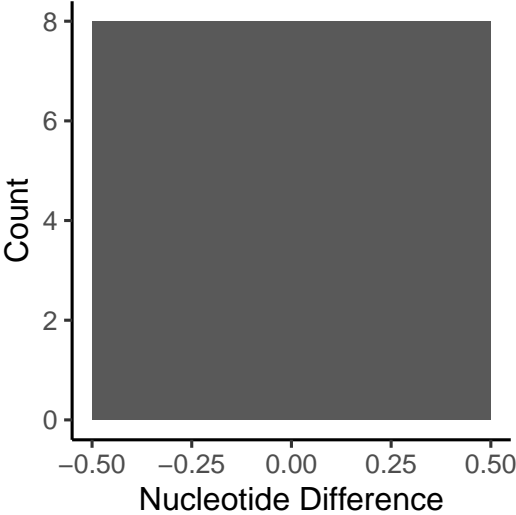
### IGKV2D-30\*01

9 sequences assigned  
9 (100%) exact matches, in which:  
9 unique CDR3  
4 unique J



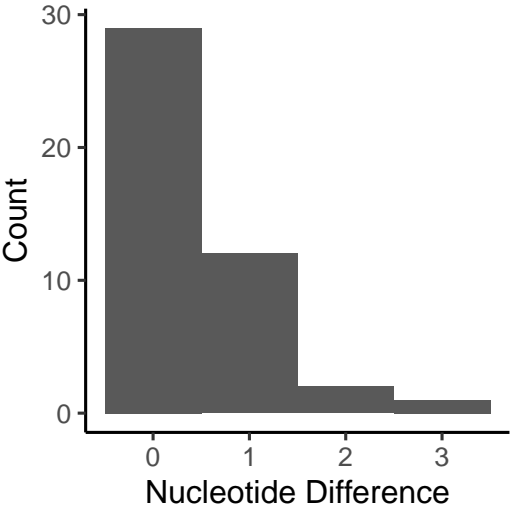
IGKV1D-43\*01

8 sequences assigned  
8 (100%) exact matches, in which:  
8 unique CDR3  
5 unique J



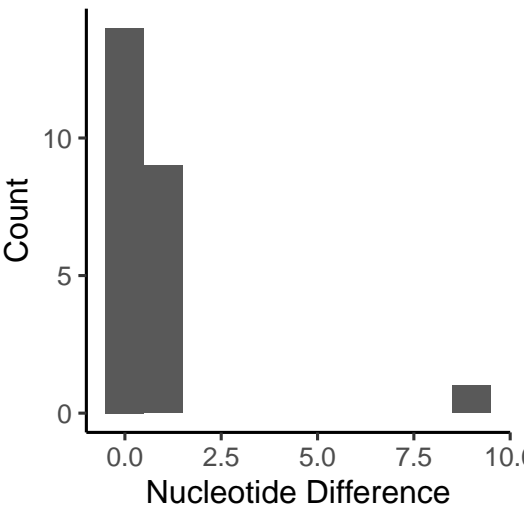
IGKV1E-12\*03

44 sequences assigned  
29 (65.9%) exact matches, in which:  
24 unique CDR3  
5 unique J



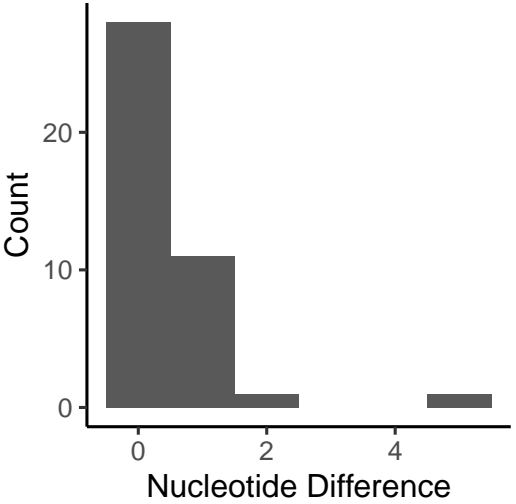
IGKV6E-21\*03

24 sequences assigned  
14 (58.3%) exact matches, in which:  
12 unique CDR3  
3 unique J



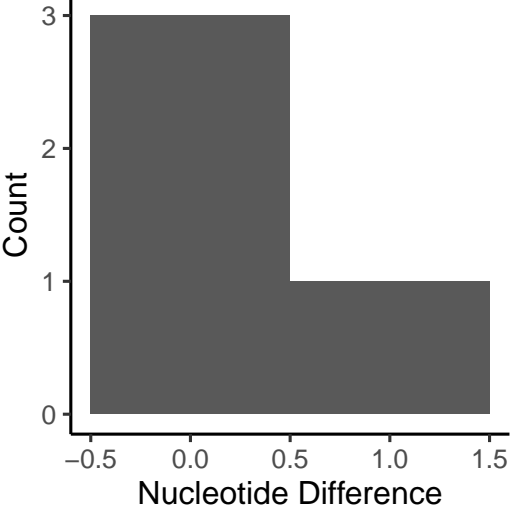
IGKV1E-12\*01

41 sequences assigned  
28 (68.3%) exact matches, in which:  
21 unique CDR3  
5 unique J



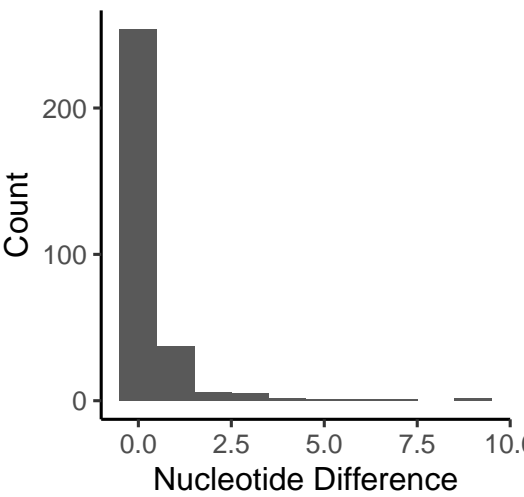
IGKV1E-13\*03

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



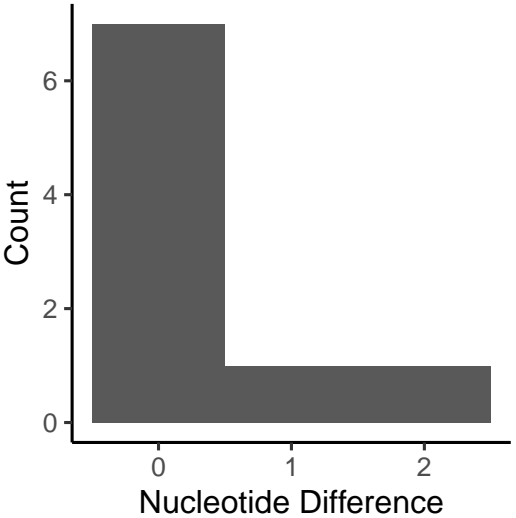
IGKV2E-28\*01

309 sequences assigned  
254 (82.2%) exact matches, in which:  
211 unique CDR3  
5 unique J



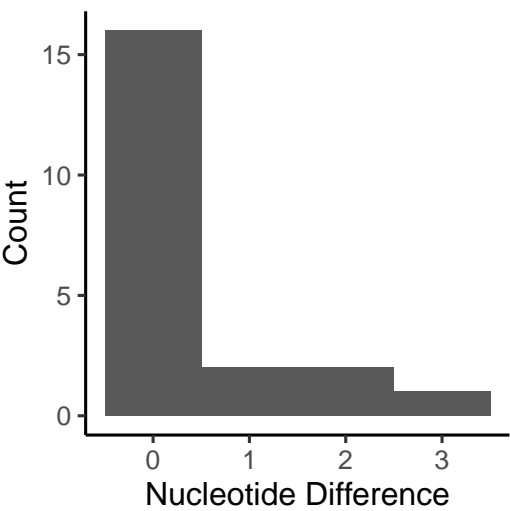
IGKV1E-12\*02

9 sequences assigned  
7 (77.8%) exact matches, in which:  
7 unique CDR3  
5 unique J



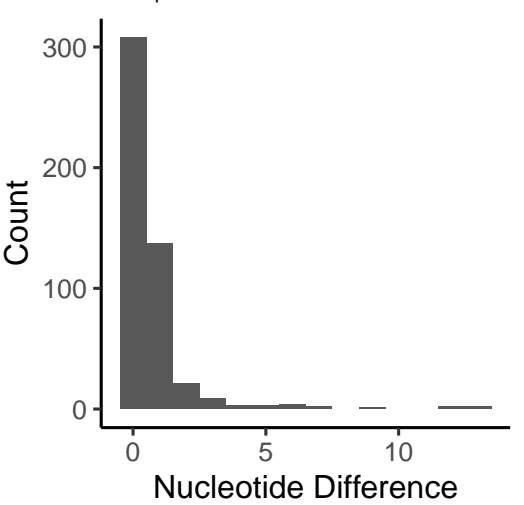
IGKV6E-21\*01

21 sequences assigned  
16 (76.2%) exact matches, in which:  
14 unique CDR3  
5 unique J



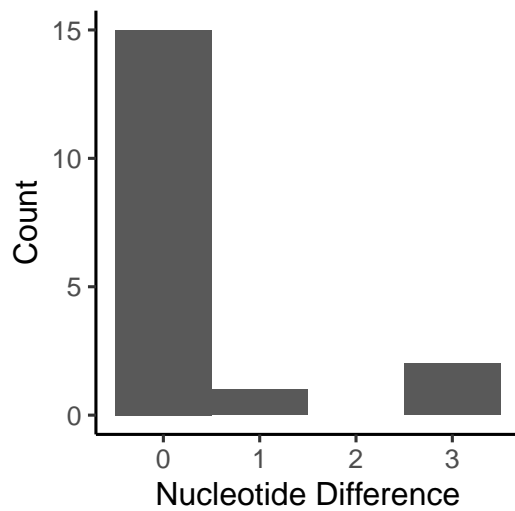
IGKV1E-33\*01

492 sequences assigned  
308 (62.6%) exact matches, in which:  
242 unique CDR3  
5 unique J



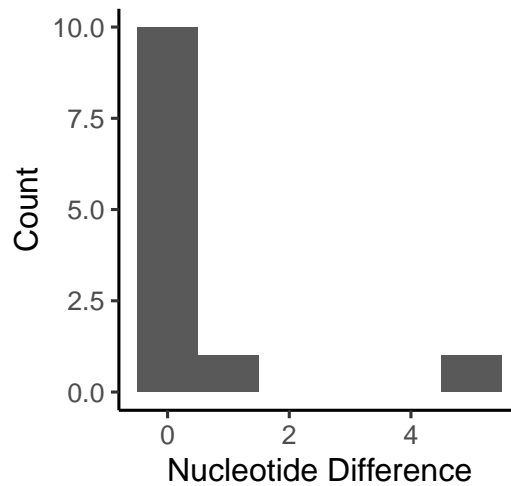
## IGKV1E-37\*01

18 sequences assigned  
15 (83.3%) exact matches, in which:  
15 unique CDR3  
5 unique J



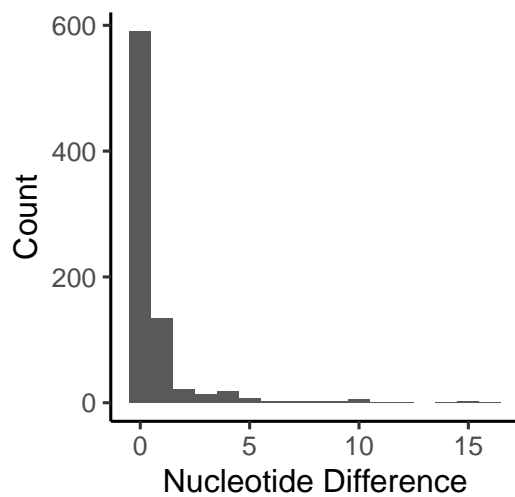
## IGKV2E-40\*01

12 sequences assigned  
10 (83.3%) exact matches, in which:  
10 unique CDR3  
3 unique J



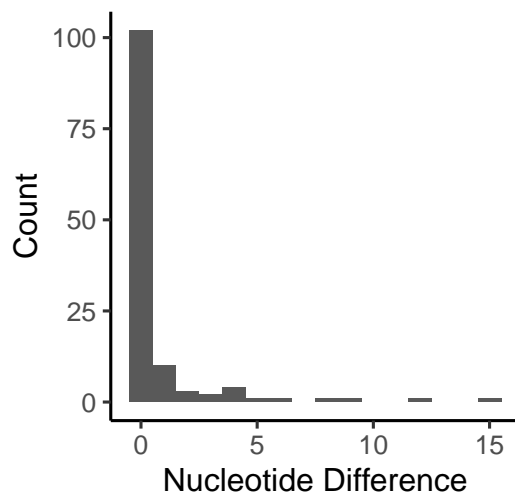
## IGKV1E-39\*01

806 sequences assigned  
591 (73.3%) exact matches, in which:  
466 unique CDR3  
5 unique J



## IGKV1E-39\*01\_A229C

127 sequences assigned  
102 (80.3%) exact matches, in which:  
99 unique CDR3  
5 unique J





Warning – no inferred sequences found.