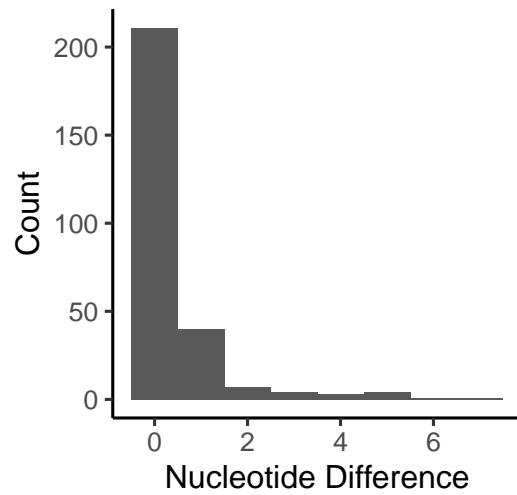


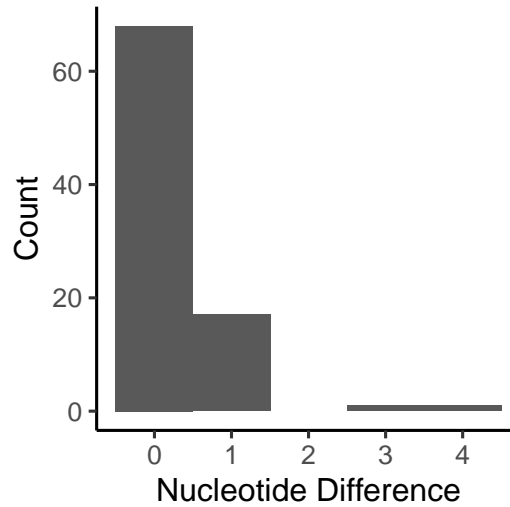
### IGKV1-5\*03

271 sequences assigned  
211 (77.9%) exact matches, in which:  
166 unique CDR3  
5 unique J



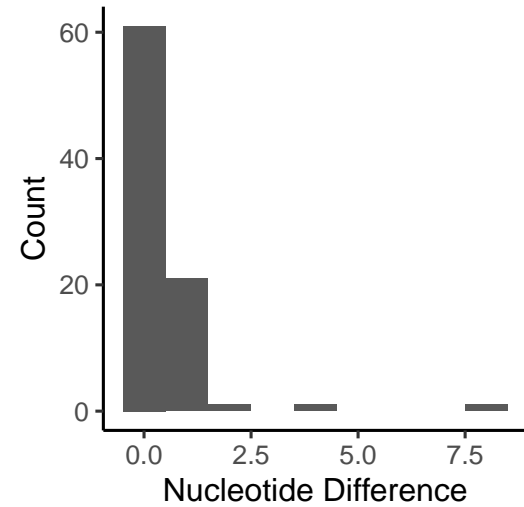
### IGKV1-9\*01

87 sequences assigned  
68 (78.2%) exact matches, in which:  
58 unique CDR3  
5 unique J



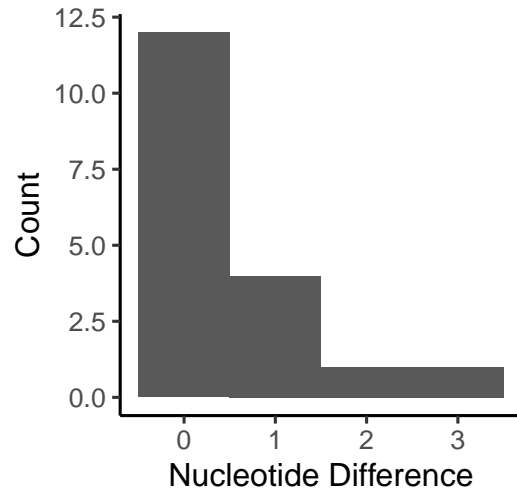
### IGKV1-27\*01

85 sequences assigned  
61 (71.8%) exact matches, in which:  
53 unique CDR3  
5 unique J



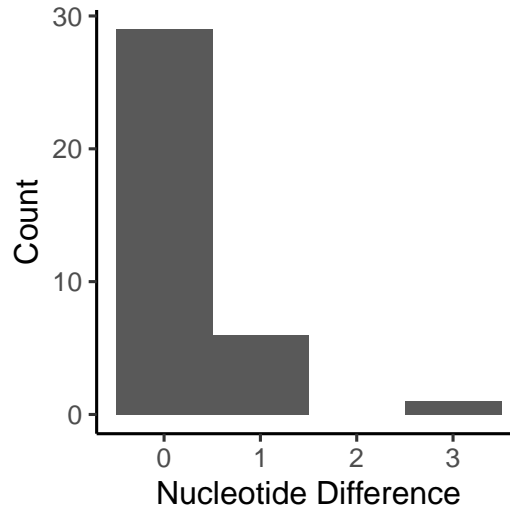
### IGKV1-6\*01

18 sequences assigned  
12 (66.7%) exact matches, in which:  
10 unique CDR3  
3 unique J



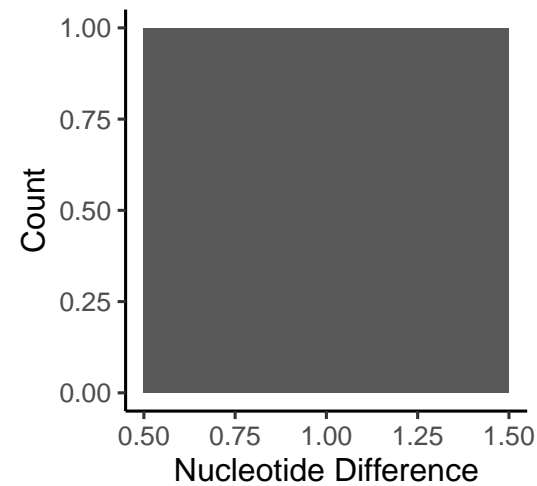
### IGKV1-16\*02

36 sequences assigned  
29 (80.6%) exact matches, in which:  
21 unique CDR3  
5 unique J



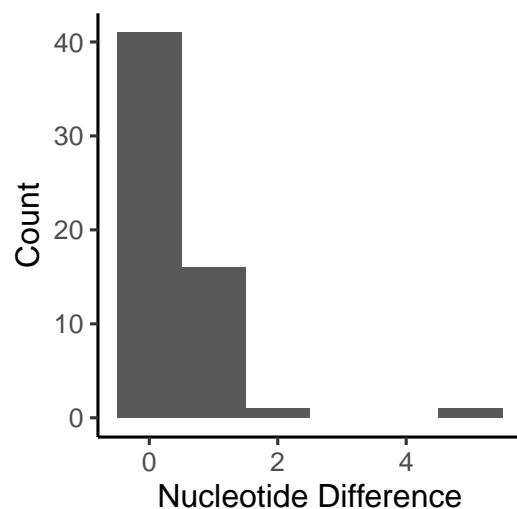
### IGKV2-4\*01

1 sequences assigned  
No exact matches.



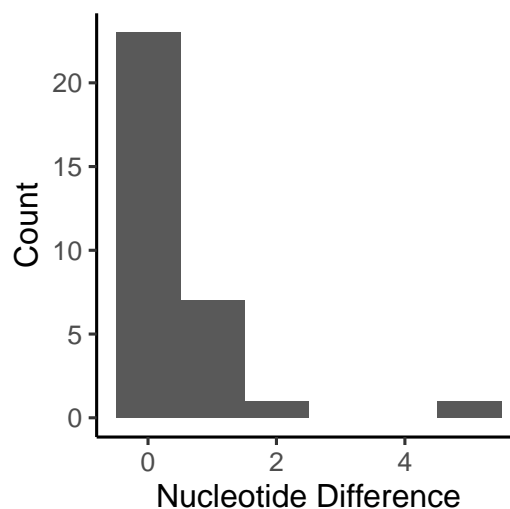
### IGKV1-8\*01

59 sequences assigned  
41 (69.5%) exact matches, in which:  
34 unique CDR3  
5 unique J



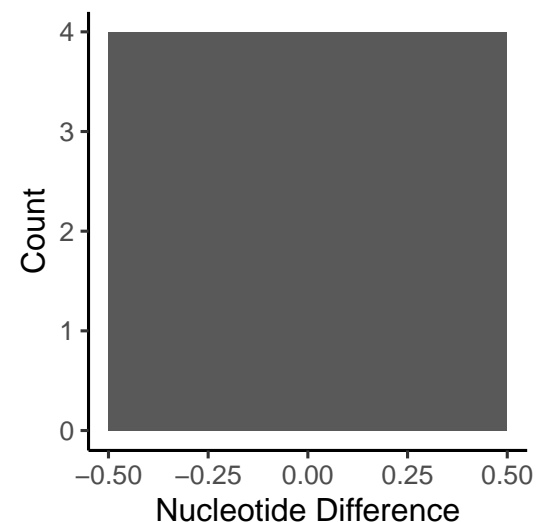
### IGKV1-17\*01

32 sequences assigned  
23 (71.9%) exact matches, in which:  
21 unique CDR3  
4 unique J



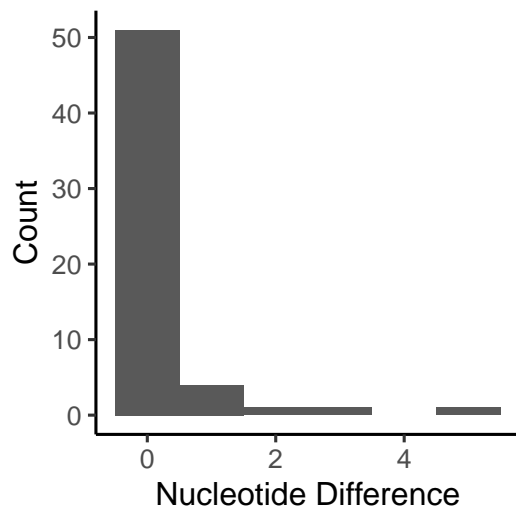
### IGKV2-24\*01

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



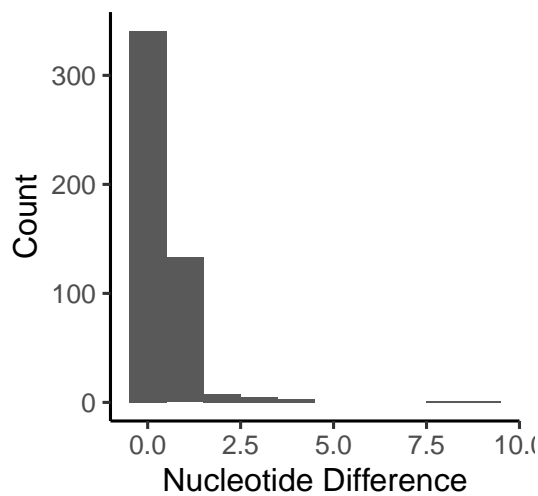
### IGKV2–30\*01

58 sequences assigned  
51 (87.9%) exact matches, in which:  
47 unique CDR3  
5 unique J



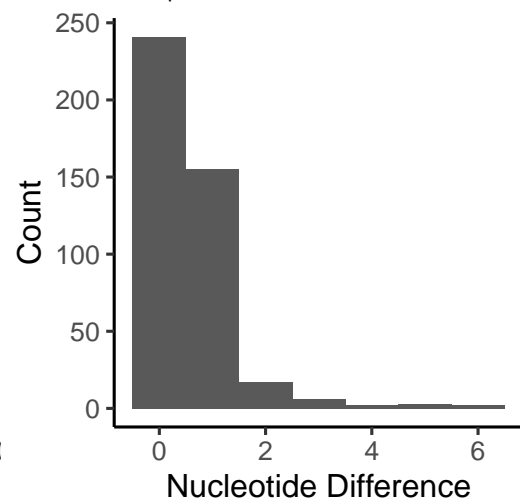
### IGKV3–11\*01

492 sequences assigned  
341 (69.3%) exact matches, in which:  
244 unique CDR3  
5 unique J



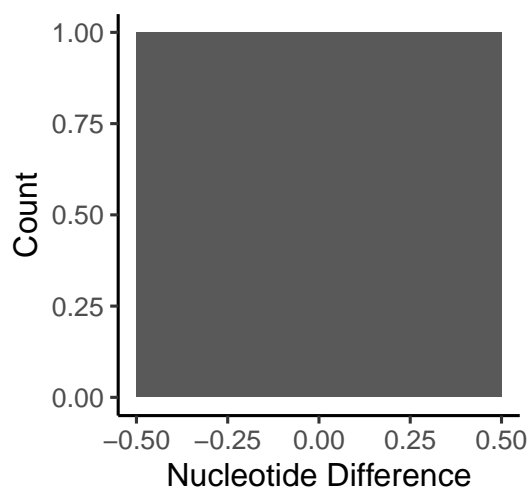
### IGKV3–20\*01

426 sequences assigned  
241 (56.6%) exact matches, in which:  
191 unique CDR3  
5 unique J



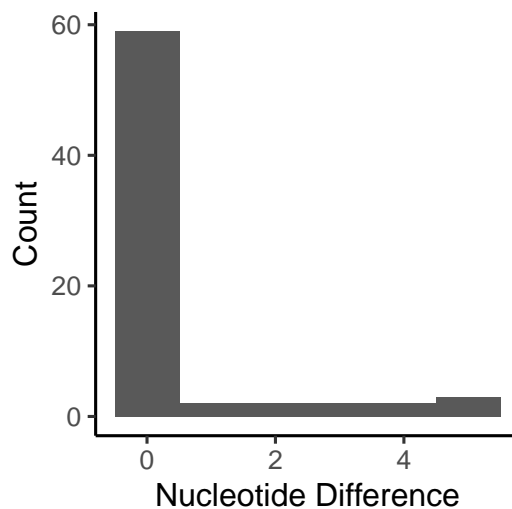
### IGKV3/OR2–268\*01

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



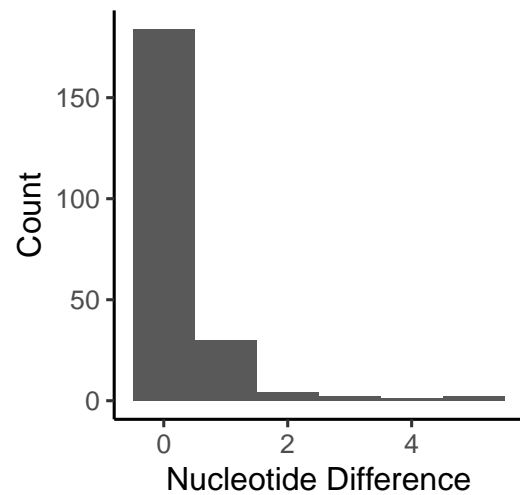
### IGKV3–11\*01\_A223C

70 sequences assigned  
59 (84.3%) exact matches, in which:  
58 unique CDR3  
5 unique J



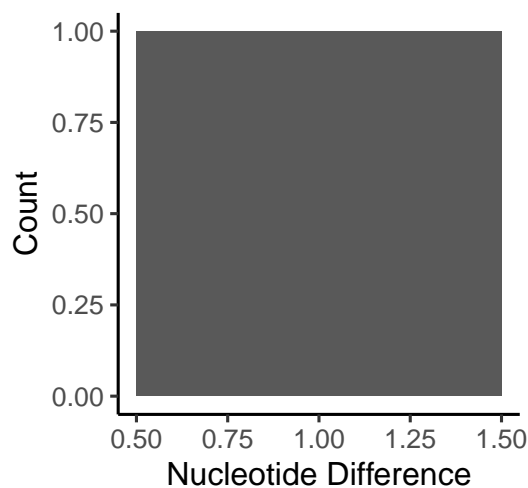
### IGKV4–1\*01

223 sequences assigned  
184 (82.5%) exact matches, in which:  
155 unique CDR3  
5 unique J



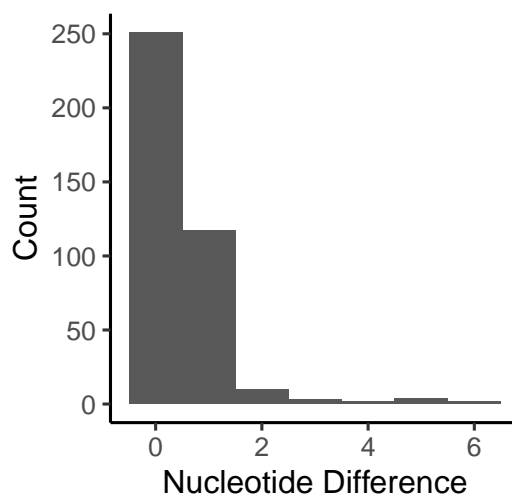
### IGKV3–7\*04

1 sequences assigned  
No exact matches.



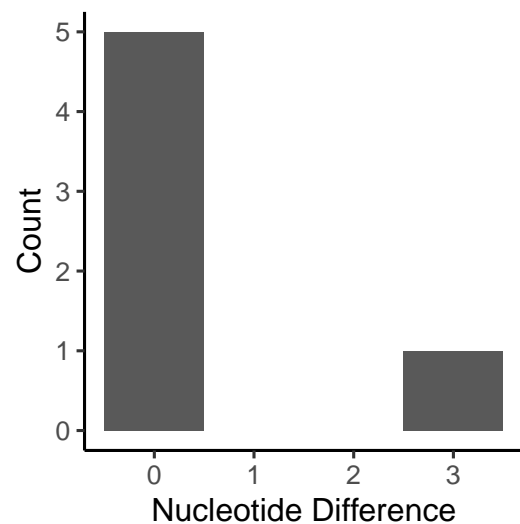
### IGKV3–15\*01

389 sequences assigned  
251 (64.5%) exact matches, in which:  
194 unique CDR3  
5 unique J



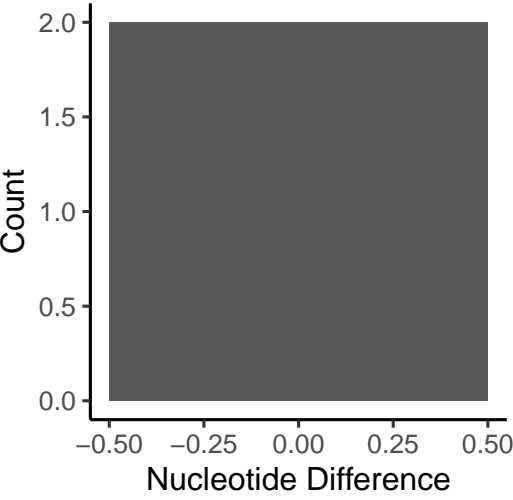
### IGKV5–2\*01

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



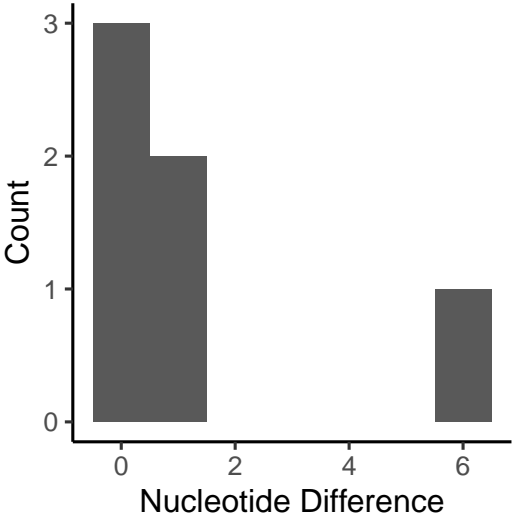
IGKV7-3\*01

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



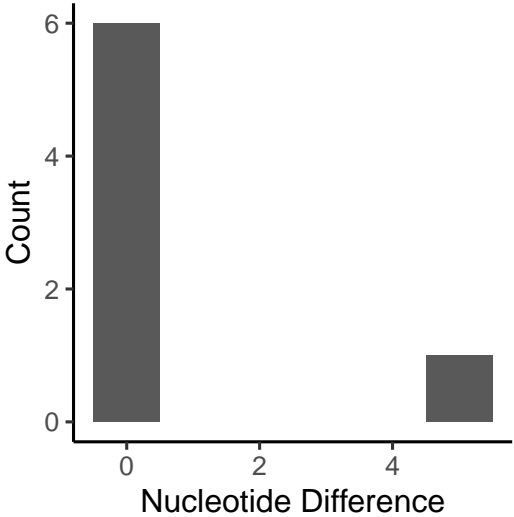
IGKV3D-11\*01

6 sequences assigned  
3 (50%) exact matches, in which:  
3 unique CDR3  
2 unique J



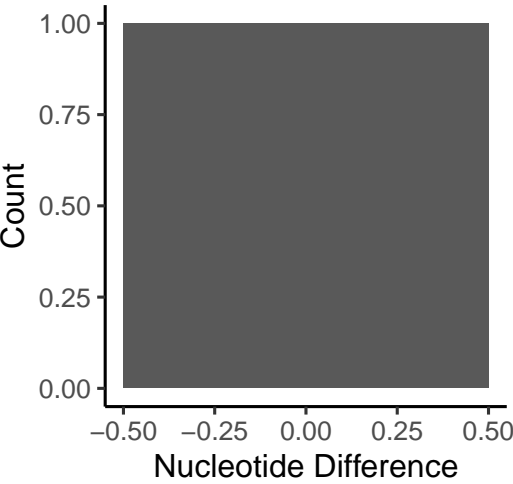
IGKV1D-16\*01

7 sequences assigned  
6 (85.7%) exact matches, in which:  
6 unique CDR3  
3 unique J



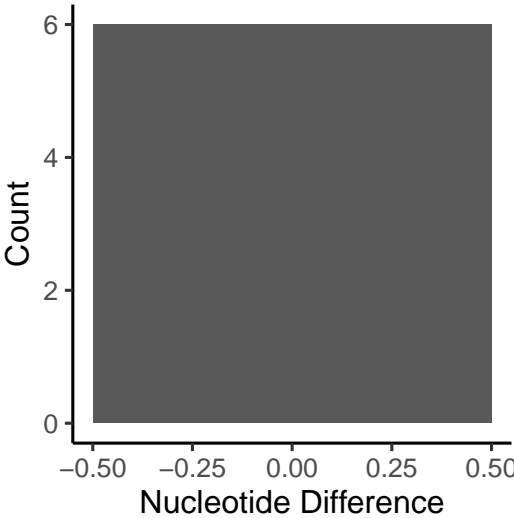
IGKV3D-7\*01

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



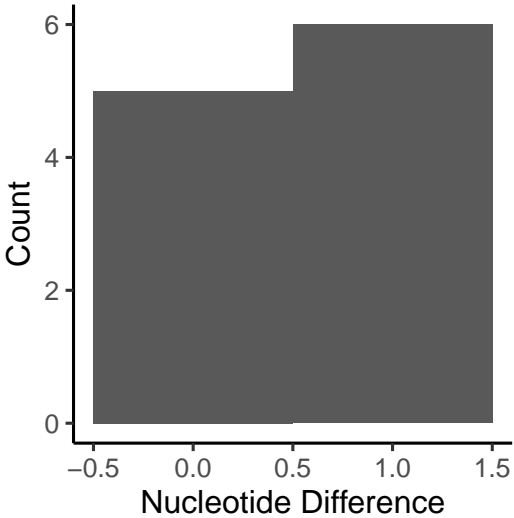
IGKV3D-11\*02

6 sequences assigned  
6 (100%) exact matches, in which:  
6 unique CDR3  
4 unique J



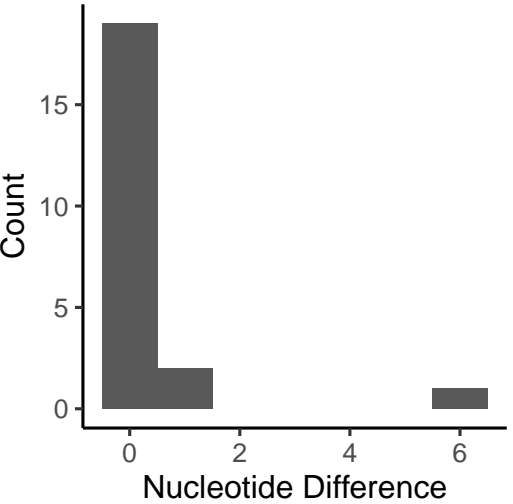
IGKV3D-20\*01

11 sequences assigned  
5 (45.5%) exact matches, in which:  
4 unique CDR3  
2 unique J



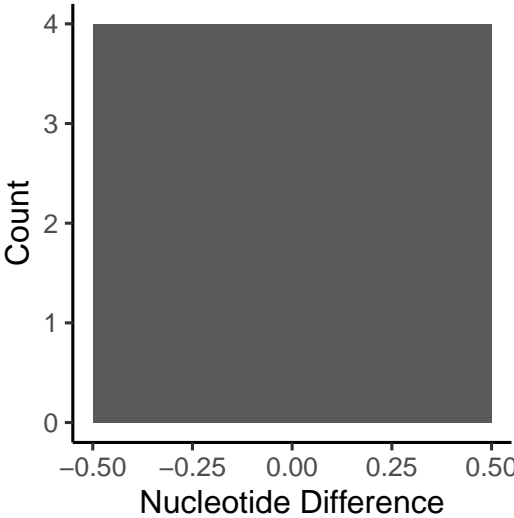
IGKV1D-8\*01

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



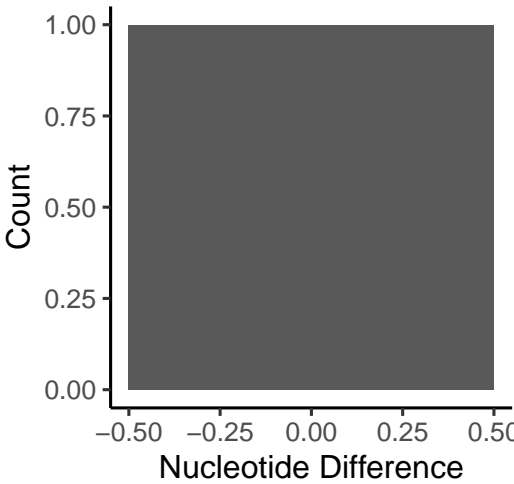
IGKV3D-15\*01

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



IGKV2D-24\*01

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



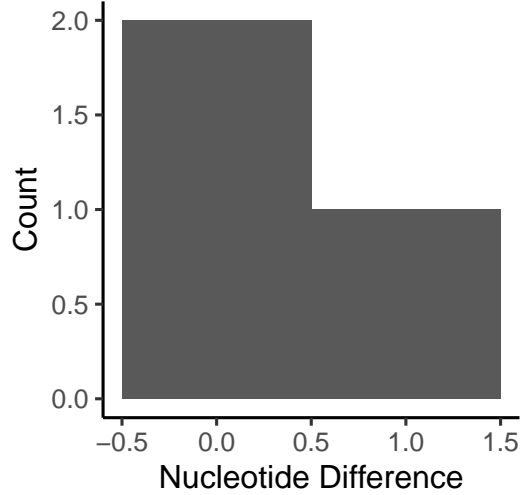
### IGKV2D-26\*03

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



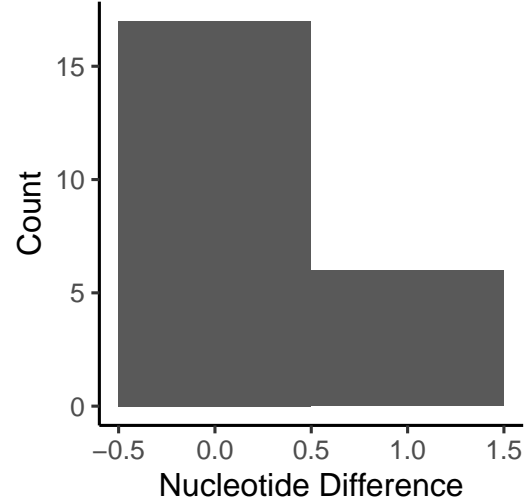
### IGKV1D-43\*01

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



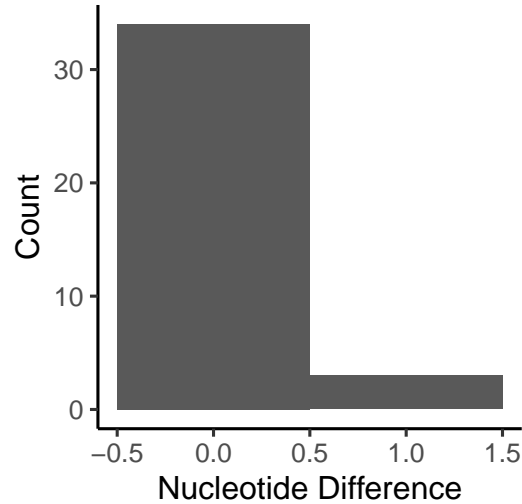
### IGKV1E-12\*03

23 sequences assigned  
17 (73.9%) exact matches, in which:  
16 unique CDR3  
5 unique J



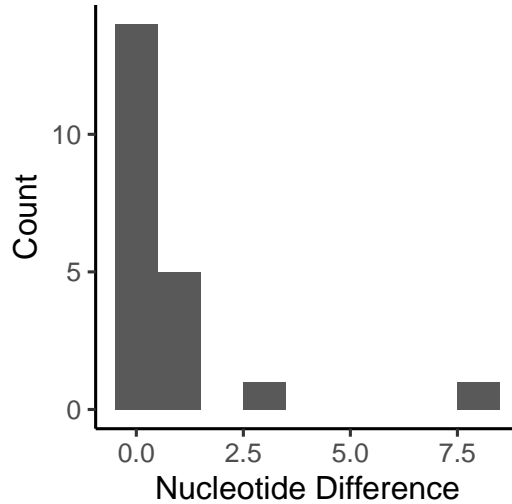
### IGKV2D-29\*01

37 sequences assigned  
34 (91.9%) exact matches, in which:  
27 unique CDR3  
5 unique J



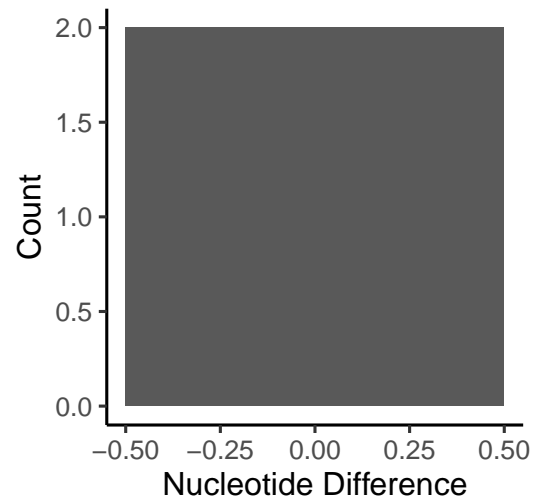
### IGKV1E-12\*01

21 sequences assigned  
14 (66.7%) exact matches, in which:  
10 unique CDR3  
4 unique J



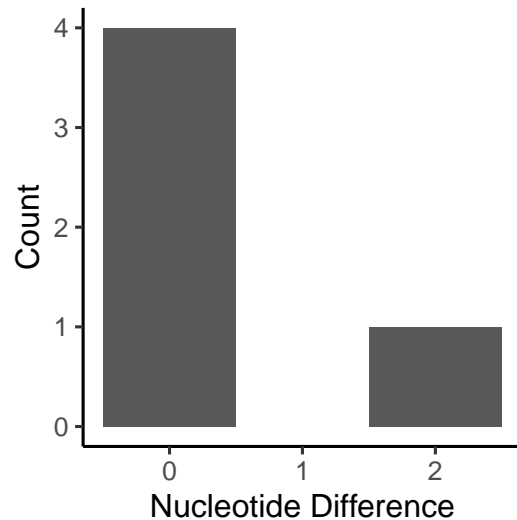
### IGKV1E-13\*03

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



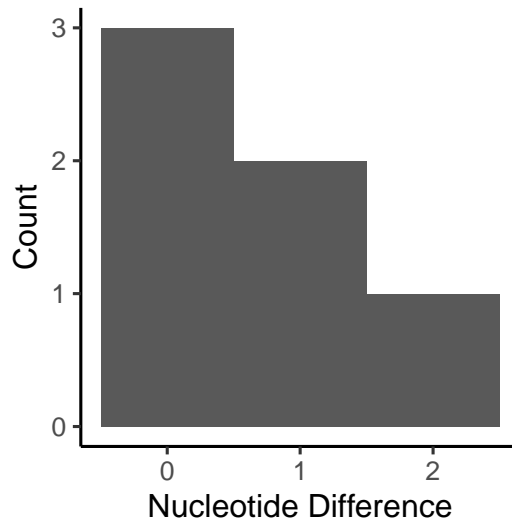
### IGKV2D-30\*01

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



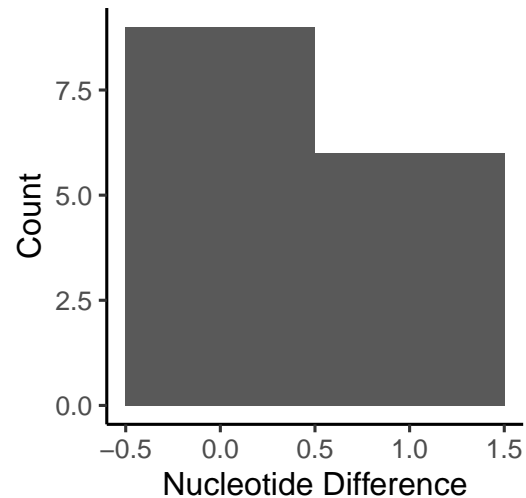
### IGKV1E-12\*02

6 sequences assigned  
3 (50%) exact matches, in which:  
3 unique CDR3  
3 unique J



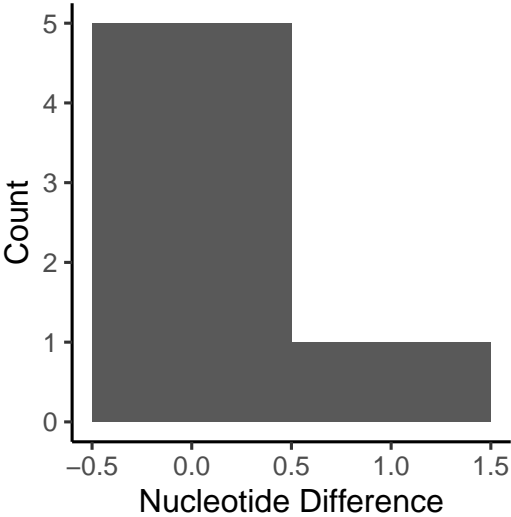
### IGKV6E-21\*01

15 sequences assigned  
9 (60%) exact matches, in which:  
9 unique CDR3  
4 unique J



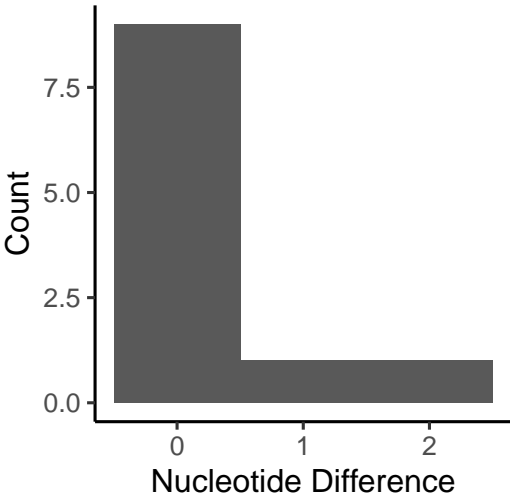
IGKV6E-21\*03

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



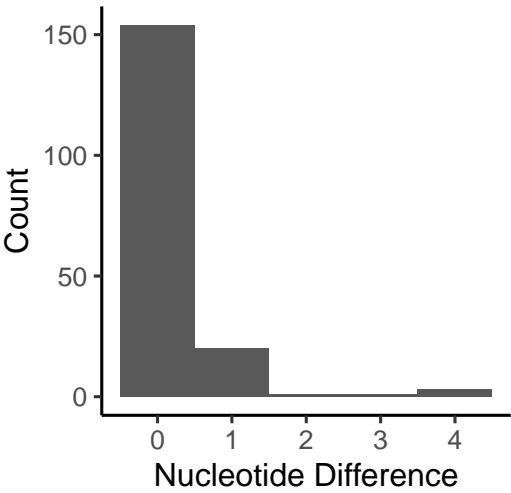
IGKV1E-37\*01

11 sequences assigned  
9 (81.8%) exact matches, in which:  
9 unique CDR3  
4 unique J



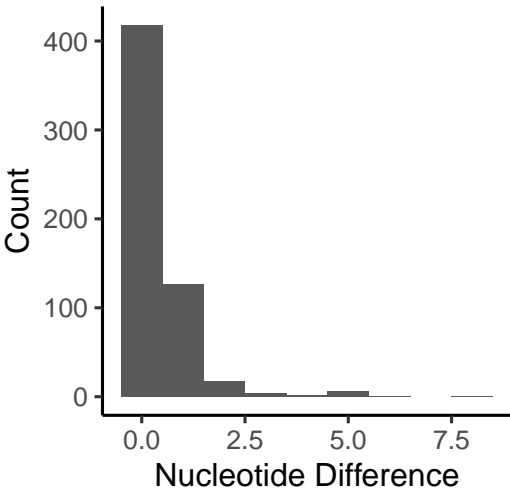
IGKV2E-28\*01

179 sequences assigned  
154 (86%) exact matches, in which:  
125 unique CDR3  
5 unique J



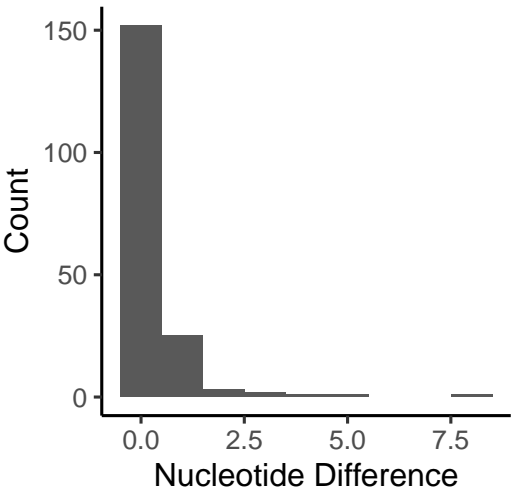
IGKV1E-39\*01

576 sequences assigned  
418 (72.6%) exact matches, in which:  
325 unique CDR3  
5 unique J



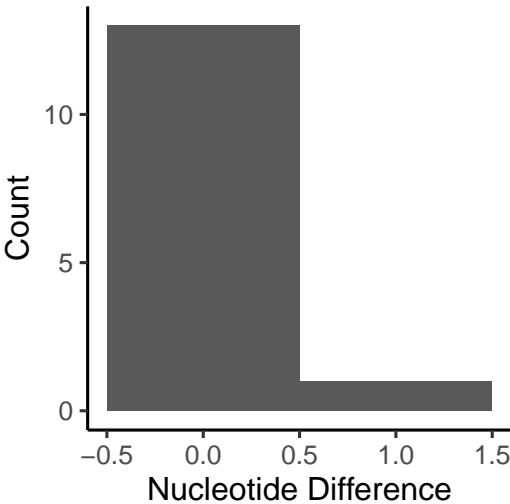
IGKV1E-33\*01

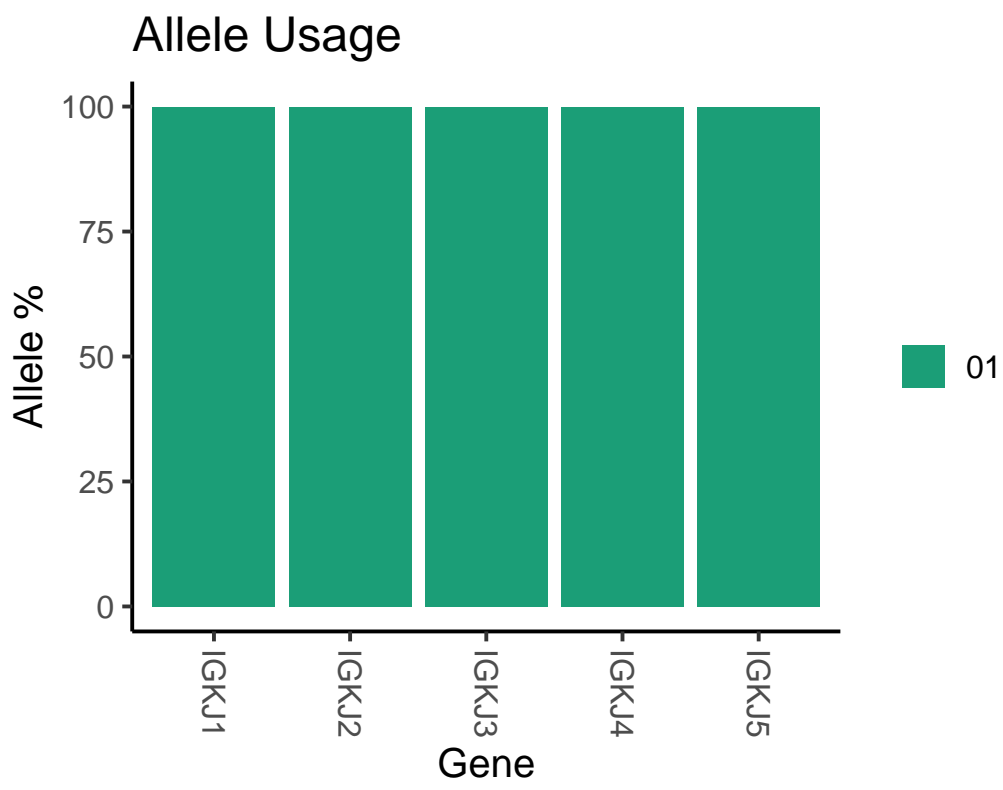
185 sequences assigned  
152 (82.2%) exact matches, in which:  
124 unique CDR3  
5 unique J



IGKV2E-40\*01

14 sequences assigned  
13 (92.9%) exact matches, in which:  
13 unique CDR3  
5 unique J





Warning – no inferred sequences found.