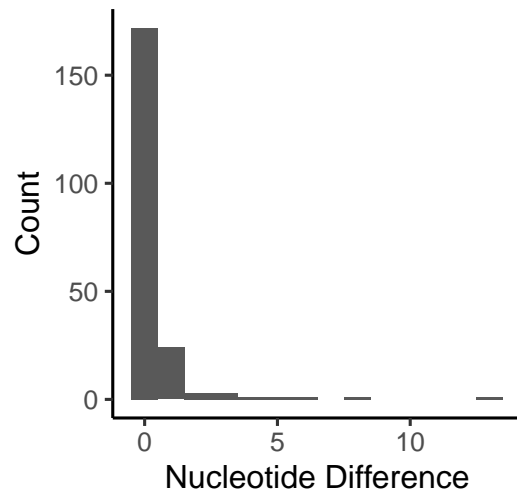


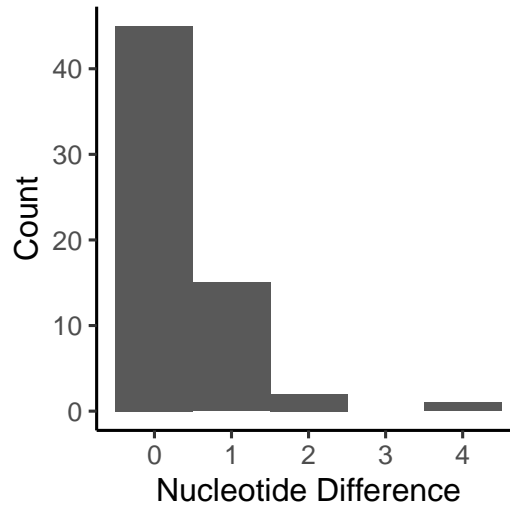
### IGKV1-5\*03

207 sequences assigned  
172 (83.1%) exact matches, in which:  
163 unique CDR3  
5 unique J



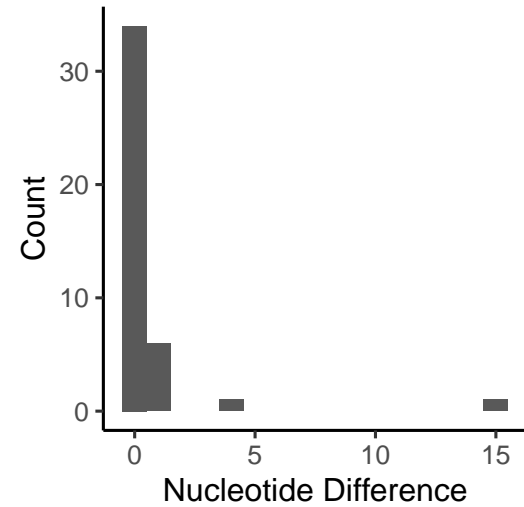
### IGKV1-8\*01

63 sequences assigned  
45 (71.4%) exact matches, in which:  
38 unique CDR3  
5 unique J



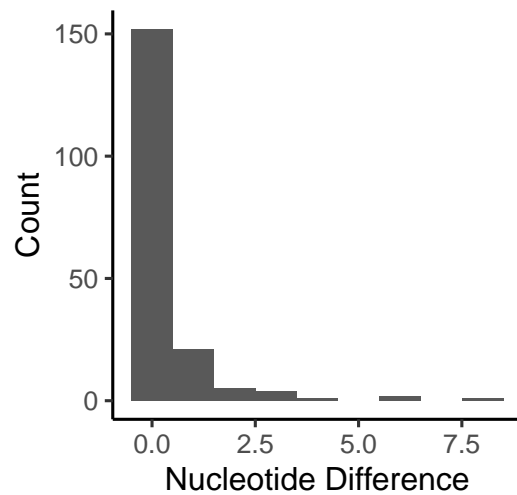
### IGKV1-17\*01

42 sequences assigned  
34 (81%) exact matches, in which:  
34 unique CDR3  
5 unique J



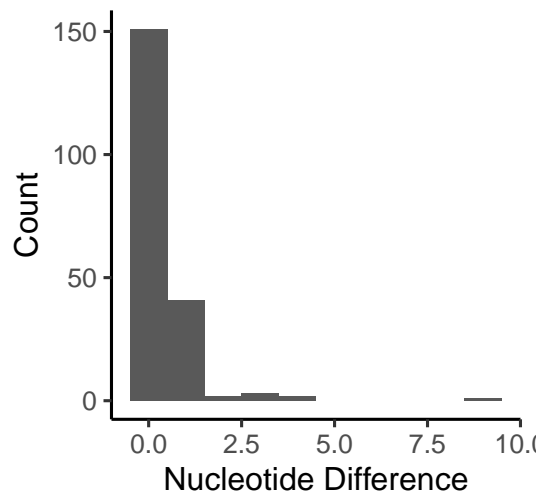
### IGKV1-5\*03\_A144C

186 sequences assigned  
152 (81.7%) exact matches, in which:  
145 unique CDR3  
5 unique J



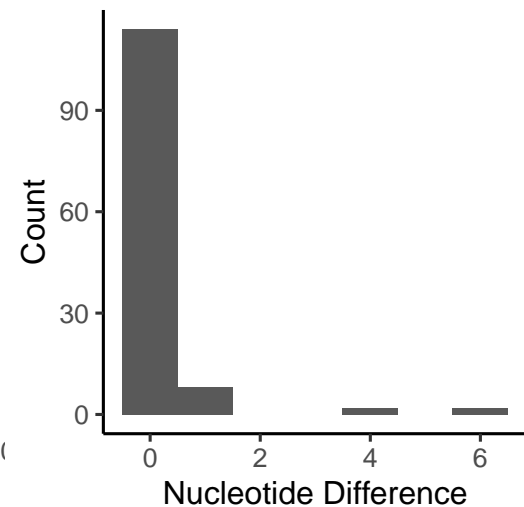
### IGKV1-9\*01

200 sequences assigned  
151 (75.5%) exact matches, in which:  
133 unique CDR3  
5 unique J



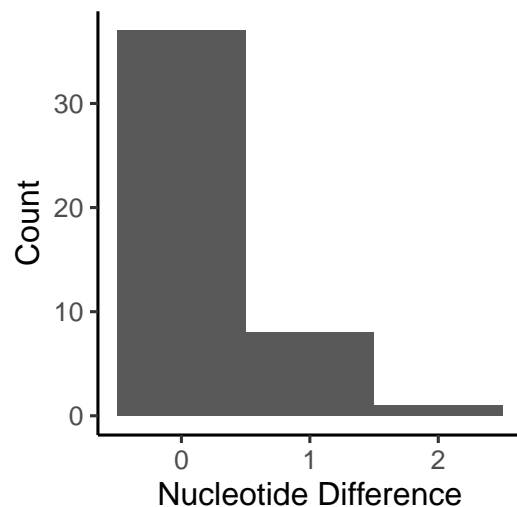
### IGKV1-27\*01

126 sequences assigned  
114 (90.5%) exact matches, in which:  
102 unique CDR3  
5 unique J



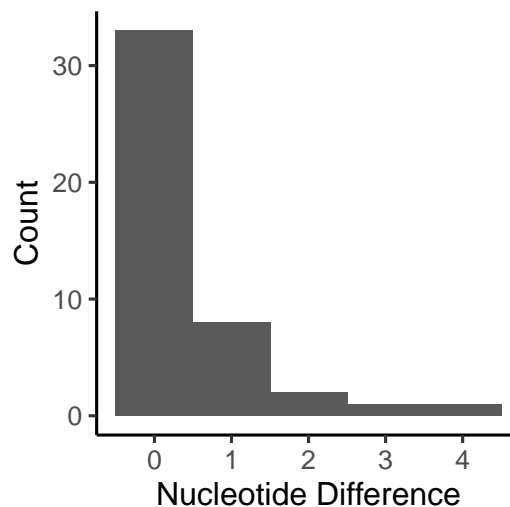
### IGKV1-6\*01

46 sequences assigned  
37 (80.4%) exact matches, in which:  
30 unique CDR3  
4 unique J



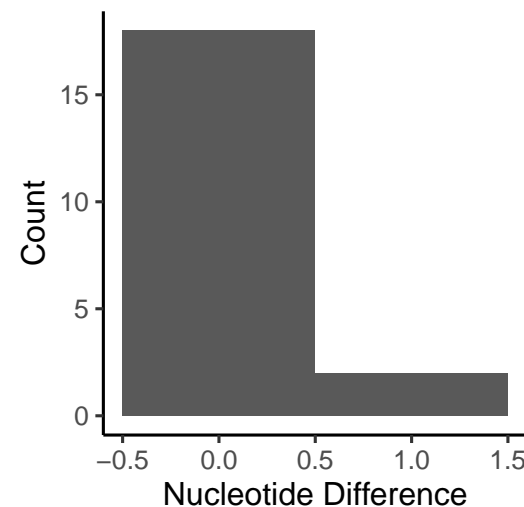
### IGKV1-16\*02

45 sequences assigned  
33 (73.3%) exact matches, in which:  
27 unique CDR3  
5 unique J



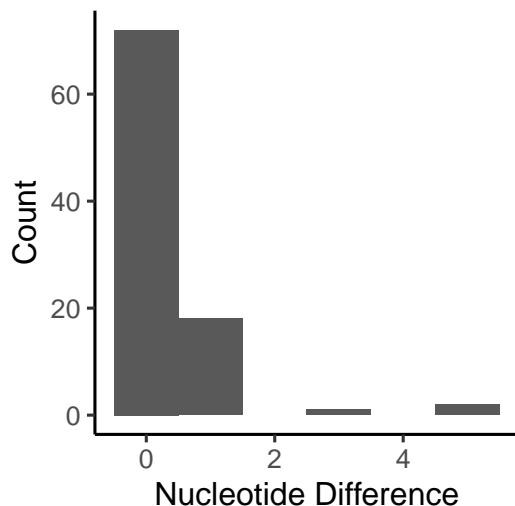
### IGKV1-27\*01\_A229C

20 sequences assigned  
18 (90%) exact matches, in which:  
18 unique CDR3  
4 unique J



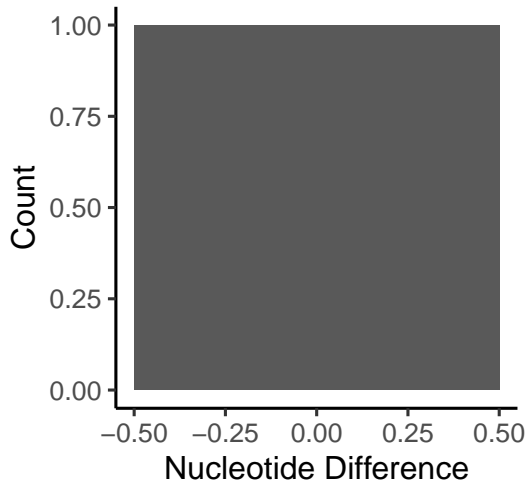
### IGKV1–NL1\*01

93 sequences assigned  
72 (77.4%) exact matches, in which:  
65 unique CDR3  
5 unique J



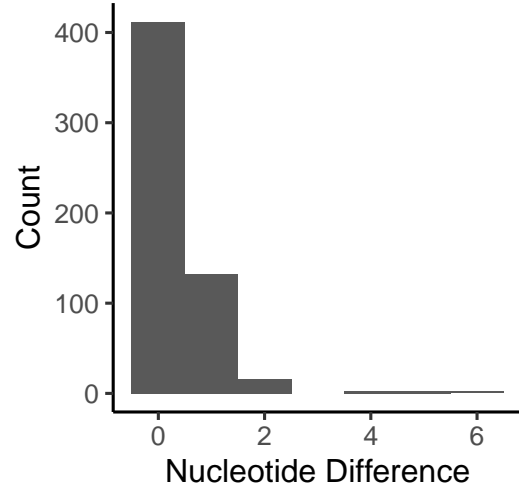
### IGKV2–18\*01

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



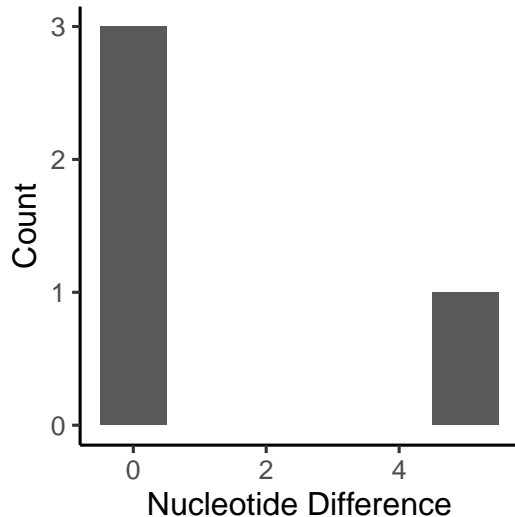
### IGKV3–11\*01

568 sequences assigned  
412 (72.5%) exact matches, in which:  
363 unique CDR3  
5 unique J



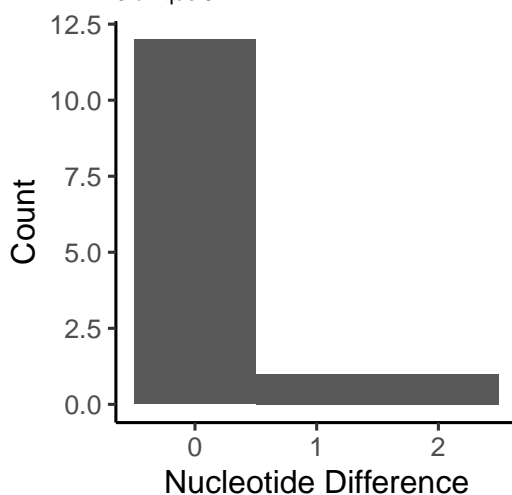
### IGKV2/OR22–4\*01

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



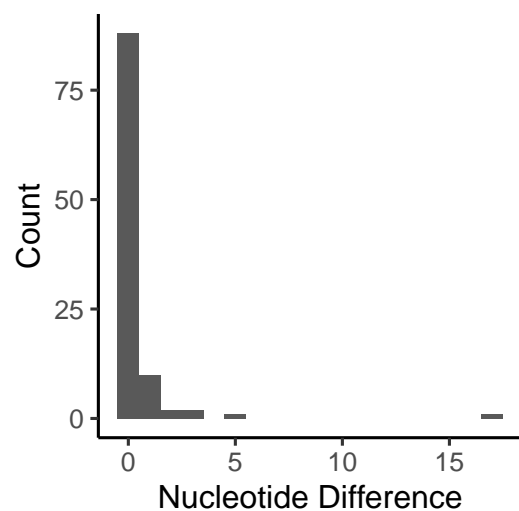
### IGKV2–24\*01

14 sequences assigned  
12 (85.7%) exact matches, in which:  
12 unique CDR3  
3 unique J



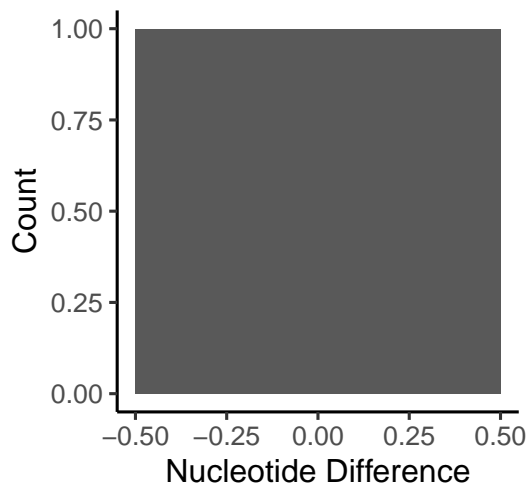
### IGKV3–11\*01\_A223C

104 sequences assigned  
88 (84.6%) exact matches, in which:  
86 unique CDR3  
5 unique J



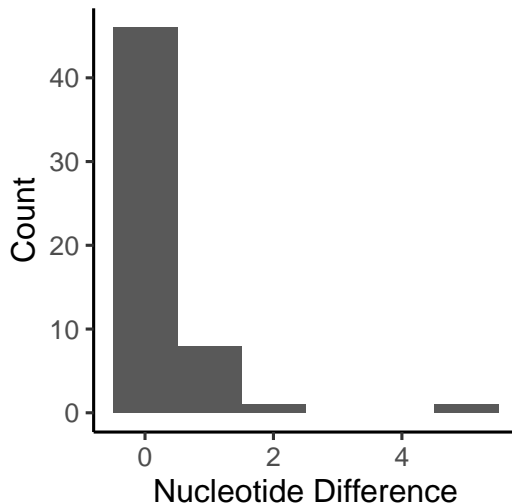
### IGKV2–4\*01

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



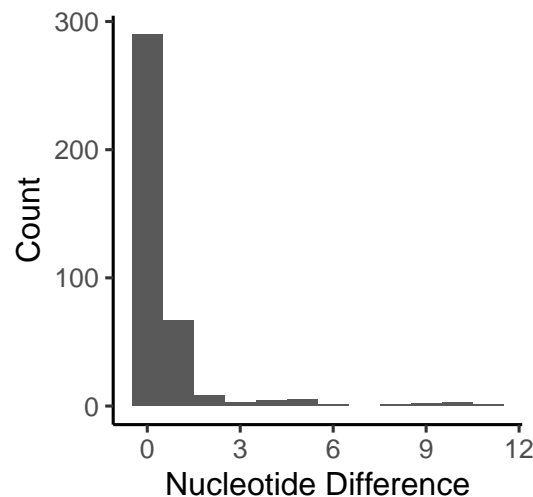
### IGKV2–30\*01

56 sequences assigned  
46 (82.1%) exact matches, in which:  
43 unique CDR3  
5 unique J



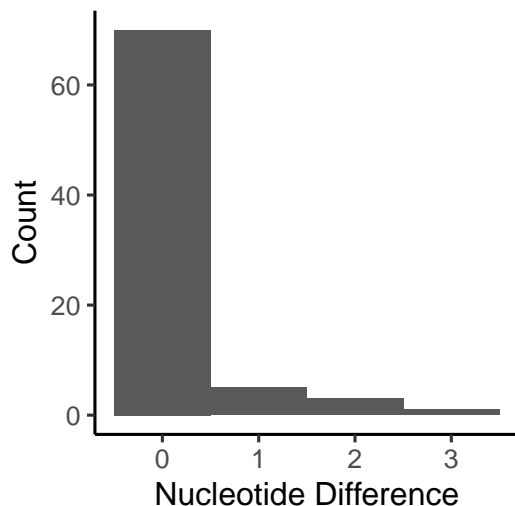
### IGKV3–15\*01

385 sequences assigned  
290 (75.3%) exact matches, in which:  
246 unique CDR3  
5 unique J



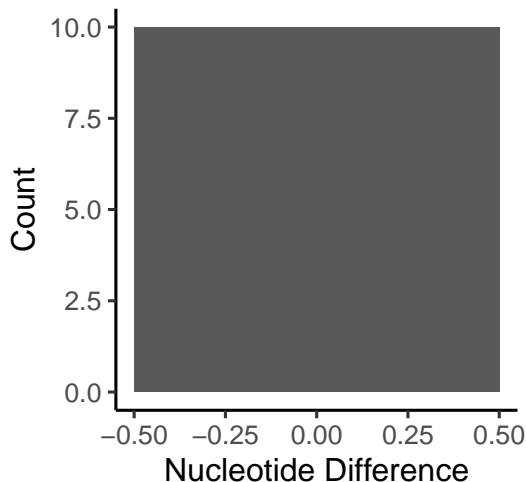
### IGKV3-15\*01\_A223C

79 sequences assigned  
70 (88.6%) exact matches, in which:  
69 unique CDR3  
5 unique J



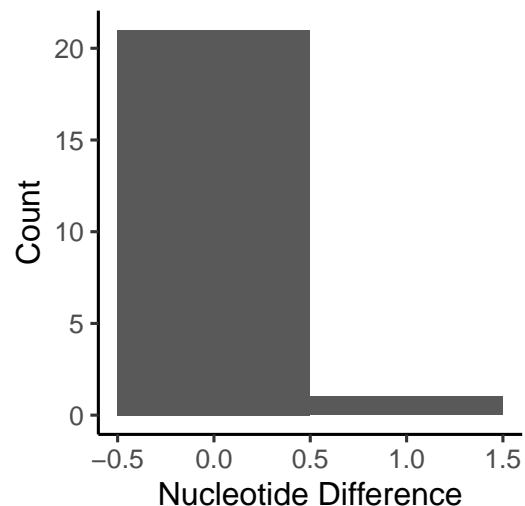
### IGKV5-2\*01

10 sequences assigned  
10 (100%) exact matches, in which:  
10 unique CDR3  
3 unique J



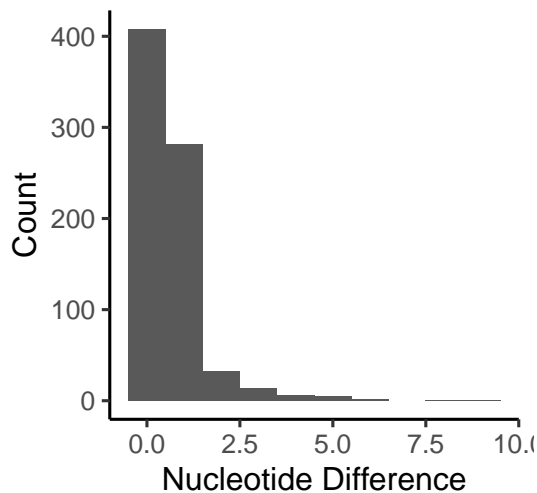
### IGKV1D-8\*01

22 sequences assigned  
21 (95.5%) exact matches, in which:  
20 unique CDR3  
4 unique J



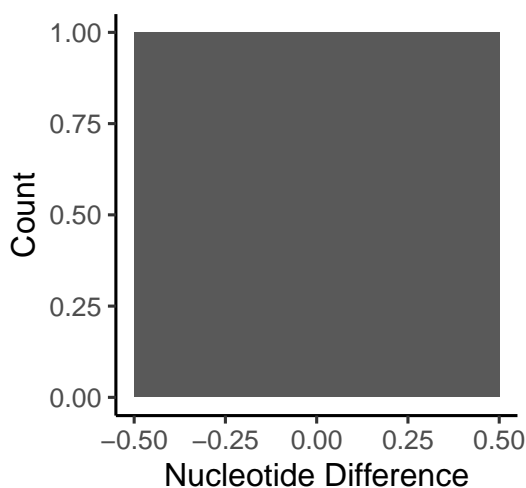
### IGKV3-20\*01

751 sequences assigned  
408 (54.3%) exact matches, in which:  
353 unique CDR3  
5 unique J



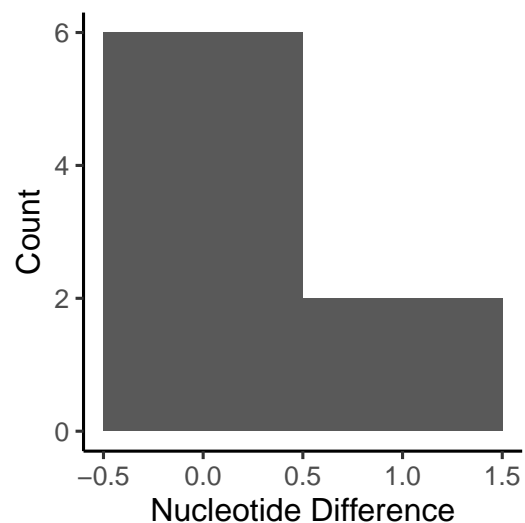
### IGKV7-3\*01

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



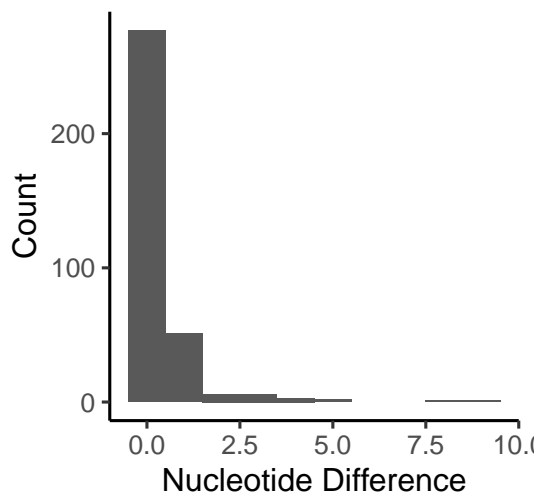
### IGKV3D-11\*02

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



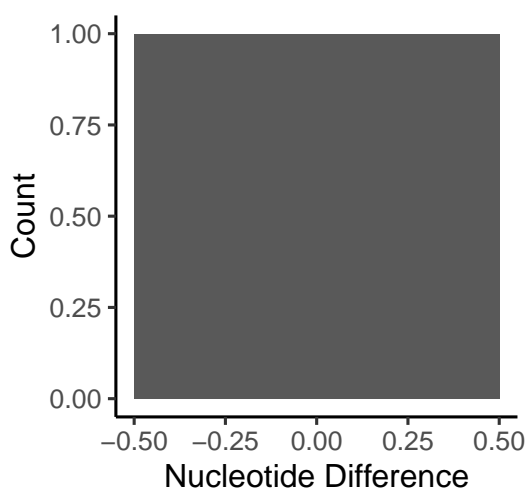
### IGKV4-1\*01

347 sequences assigned  
277 (79.8%) exact matches, in which:  
229 unique CDR3  
5 unique J



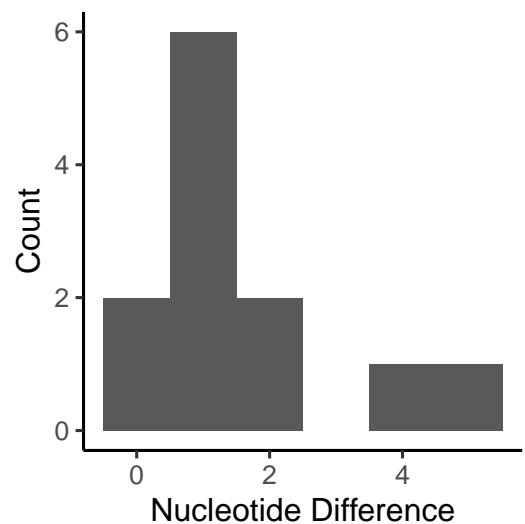
### IGKV3D-7\*01

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



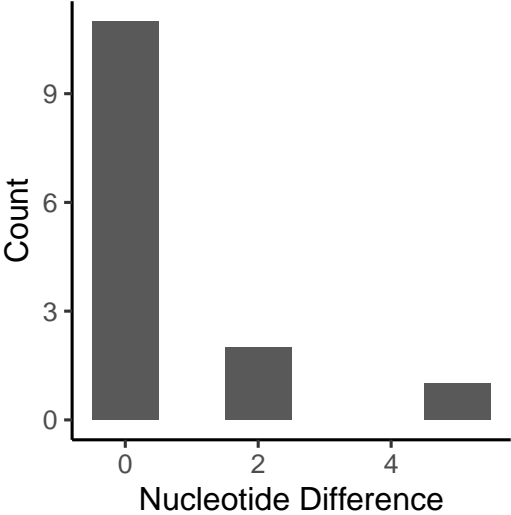
### IGKV3D-15\*01

12 sequences assigned  
2 (16.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



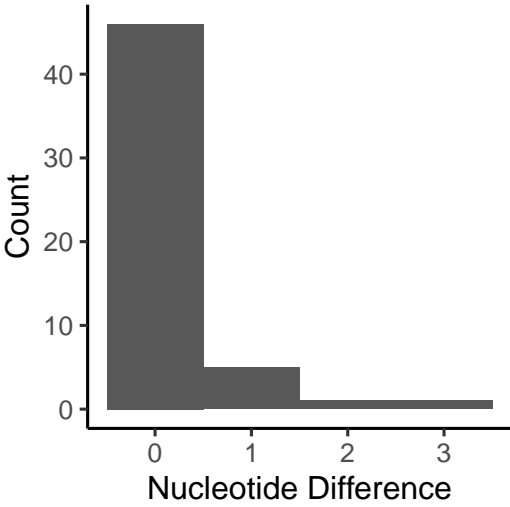
IGKV1D-16\*01

14 sequences assigned  
11 (78.6%) exact matches, in which:  
11 unique CDR3  
3 unique J



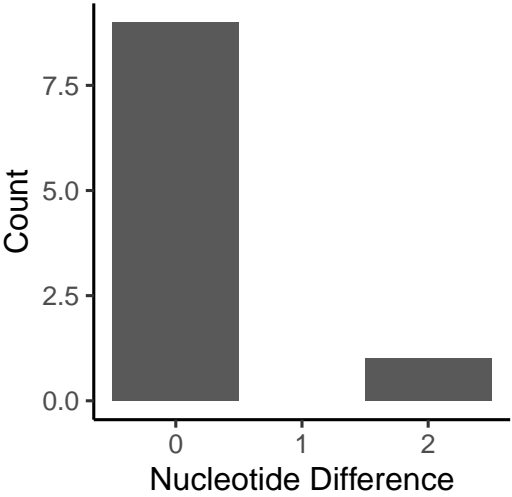
IGKV2D-29\*01

53 sequences assigned  
46 (86.8%) exact matches, in which:  
42 unique CDR3  
5 unique J



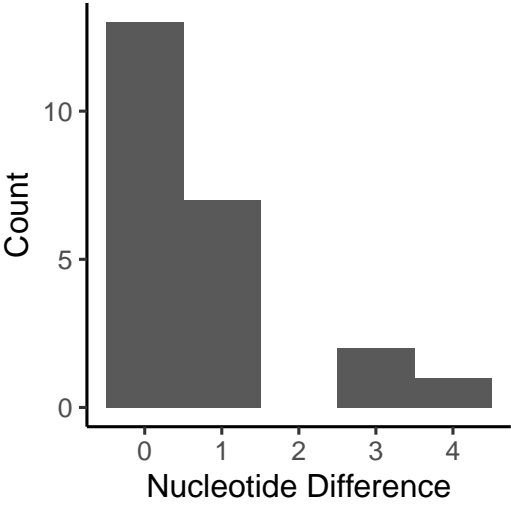
IGKV1D-43\*01

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



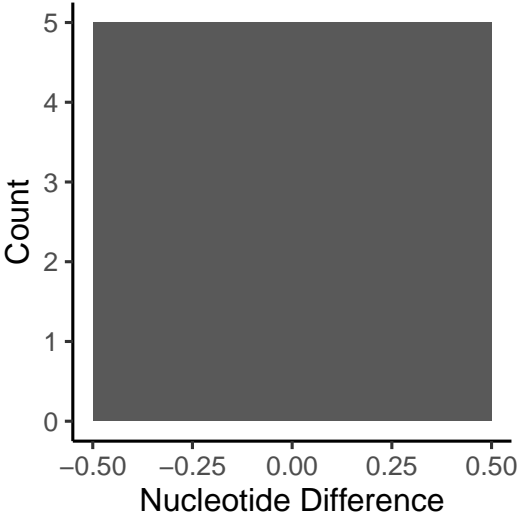
IGKV3D-20\*01

23 sequences assigned  
13 (56.5%) exact matches, in which:  
13 unique CDR3  
5 unique J



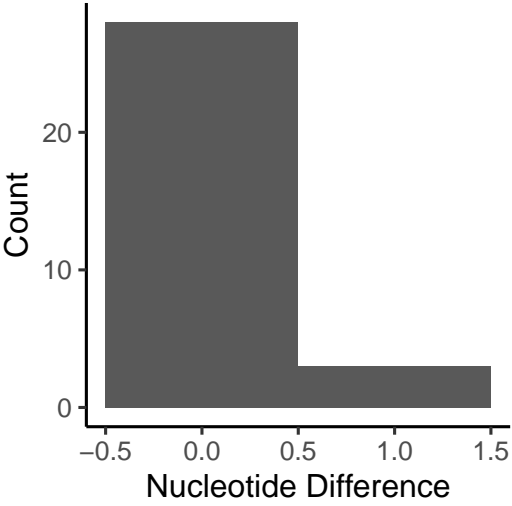
IGKV2D-30\*01

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



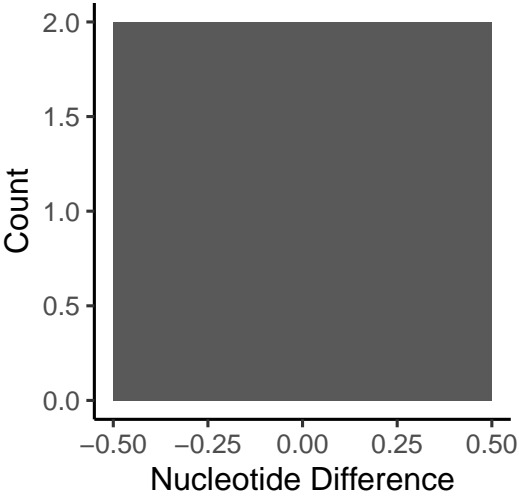
IGKV1E-12\*01

31 sequences assigned  
28 (90.3%) exact matches, in which:  
25 unique CDR3  
5 unique J



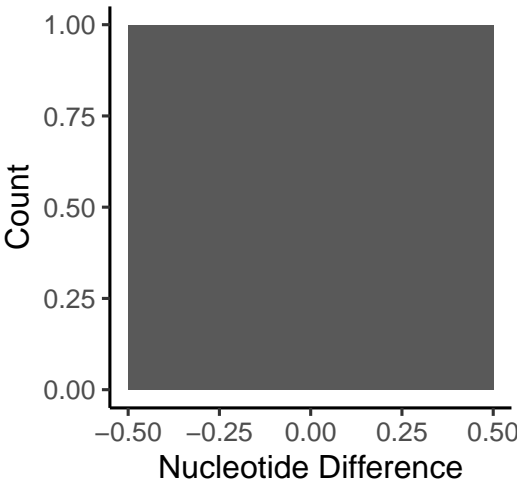
IGKV2D-26\*03

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



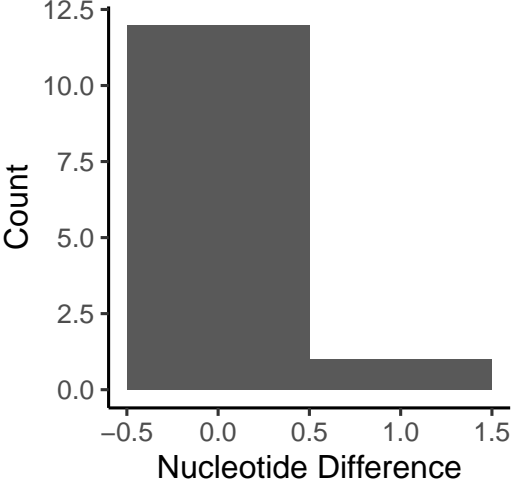
IGKV6D-41\*01

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



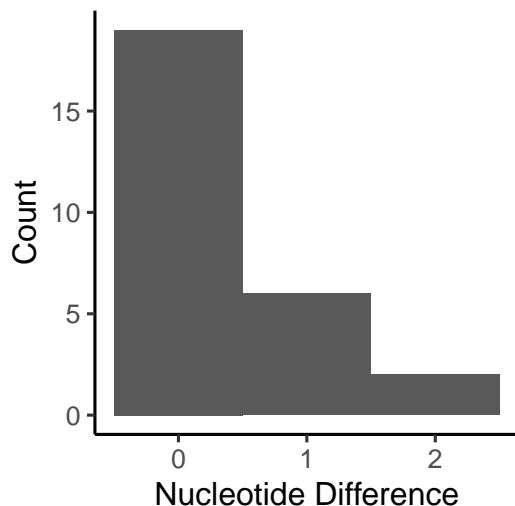
IGKV1E-12\*03

13 sequences assigned  
12 (92.3%) exact matches, in which:  
12 unique CDR3  
5 unique J



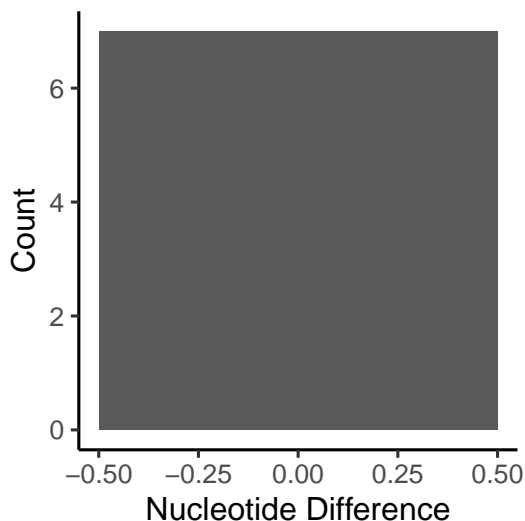
## IGKV1E-12\*01\_C59T

27 sequences assigned  
19 (70.4%) exact matches, in which:  
18 unique CDR3  
5 unique J



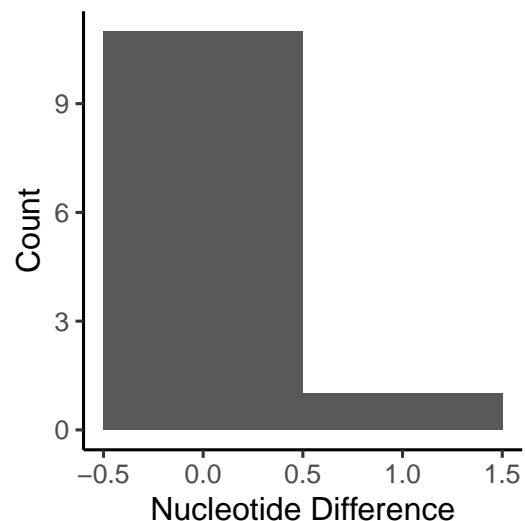
## IGKV6E-21\*03

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



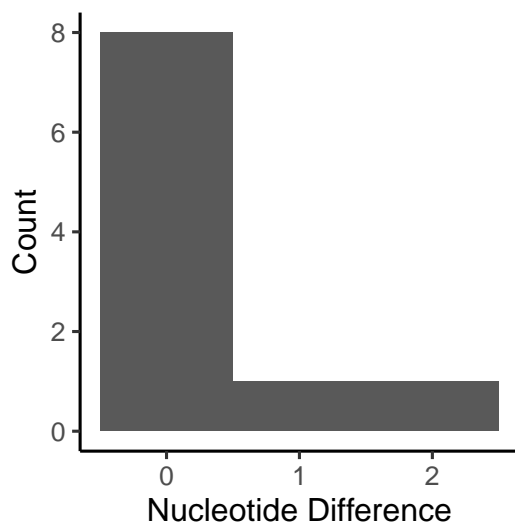
## IGKV1E-37\*01

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



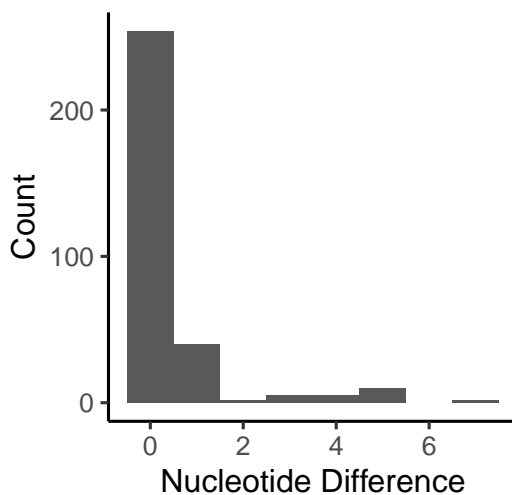
## IGKV1E-13\*03

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



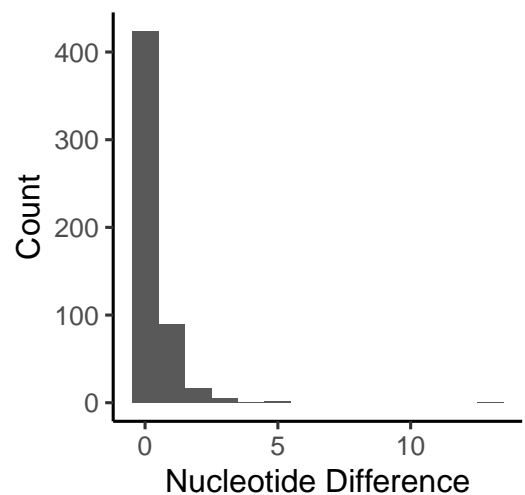
## IGKV2E-28\*01

318 sequences assigned  
254 (79.9%) exact matches, in which:  
219 unique CDR3  
5 unique J



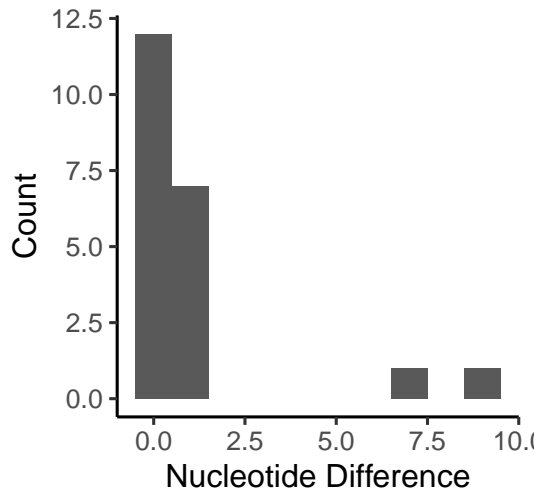
## IGKV1E-39\*01

540 sequences assigned  
424 (78.5%) exact matches, in which:  
335 unique CDR3  
5 unique J



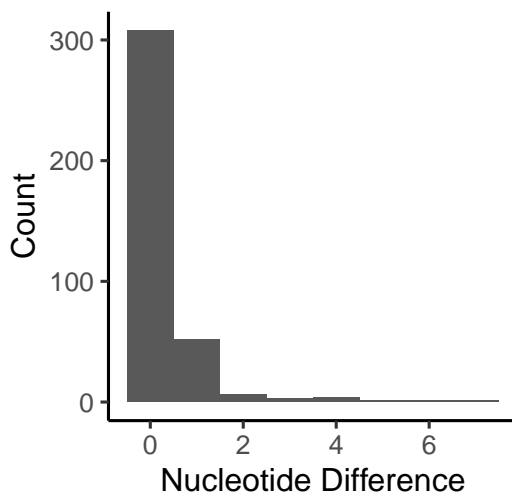
## IGKV6E-21\*01

21 sequences assigned  
12 (57.1%) exact matches, in which:  
10 unique CDR3  
4 unique J



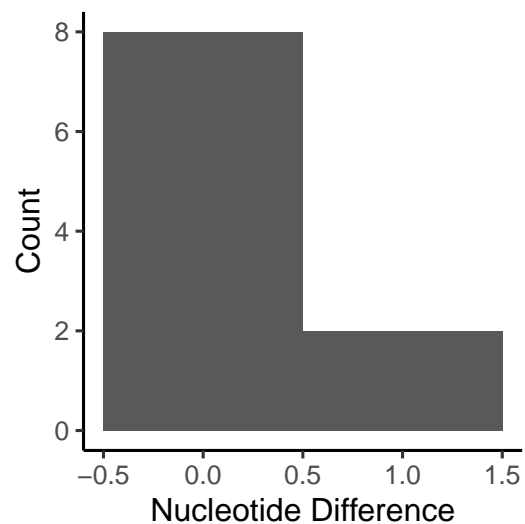
## IGKV1E-33\*01

376 sequences assigned  
308 (81.9%) exact matches, in which:  
260 unique CDR3  
5 unique J



## IGKV2E-40\*01

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





Warning – no inferred sequences found.