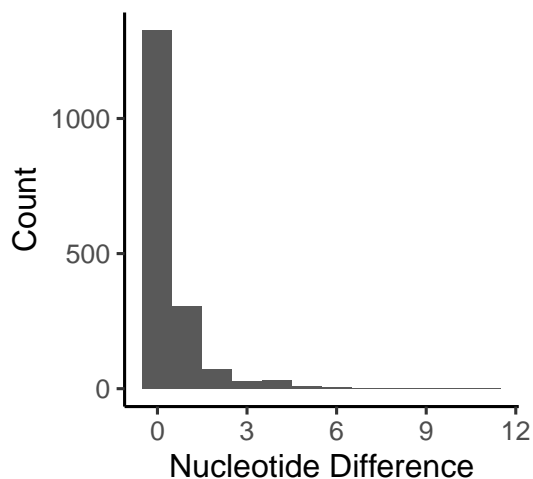


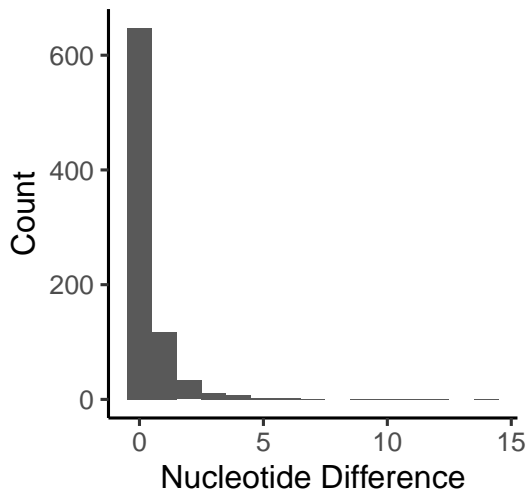
### IGKV1-5\*03

1783 sequences assigned  
1326 (74.4%) exact matches, in which:  
907 unique CDR3  
5 unique J



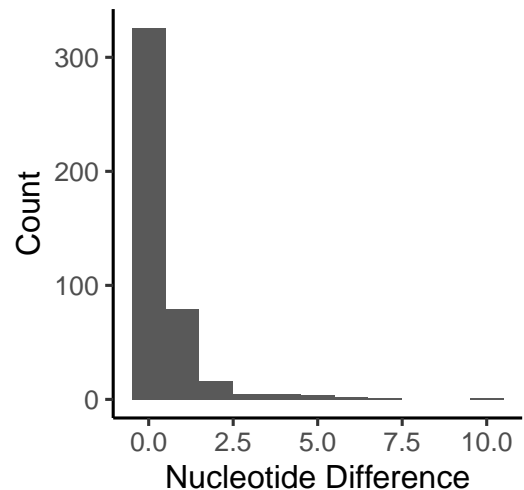
### IGKV1-9\*01

826 sequences assigned  
648 (78.5%) exact matches, in which:  
494 unique CDR3  
5 unique J



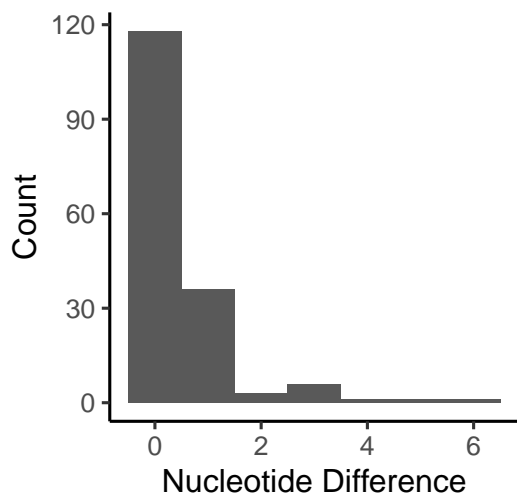
### IGKV1-27\*01

439 sequences assigned  
326 (74.3%) exact matches, in which:  
245 unique CDR3  
5 unique J



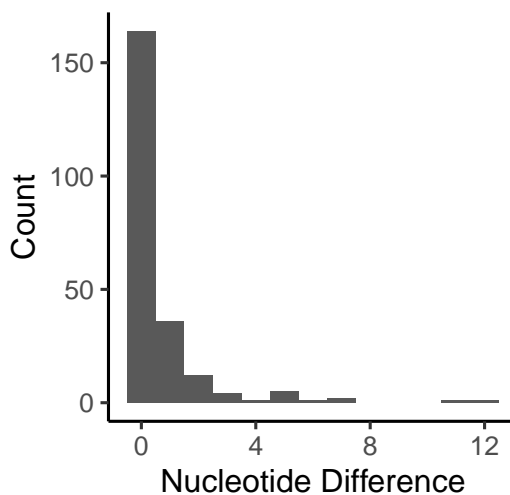
### IGKV1-6\*01

167 sequences assigned  
118 (70.7%) exact matches, in which:  
76 unique CDR3  
5 unique J



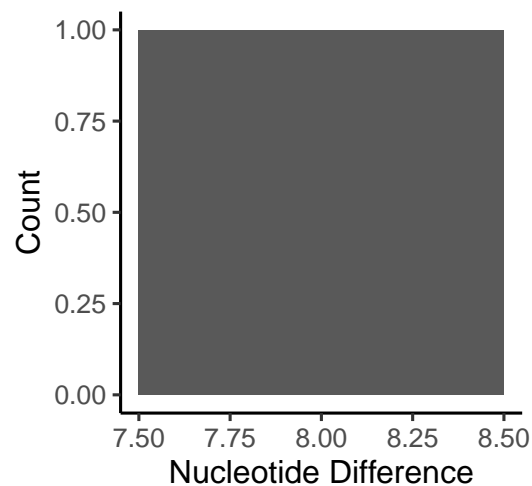
### IGKV1-16\*02

230 sequences assigned  
164 (71.3%) exact matches, in which:  
106 unique CDR3  
5 unique J



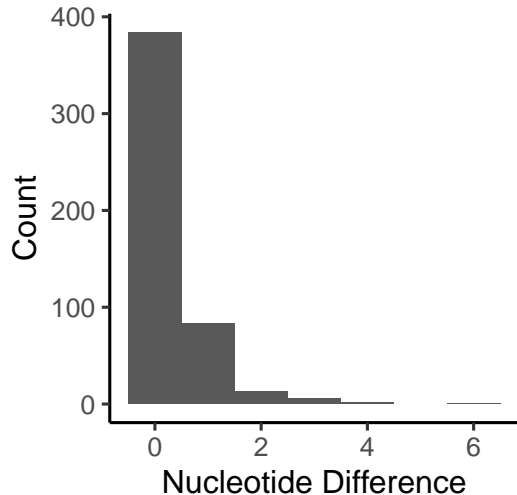
### IGKV1/OR2-0\*01

1 sequences assigned  
No exact matches.



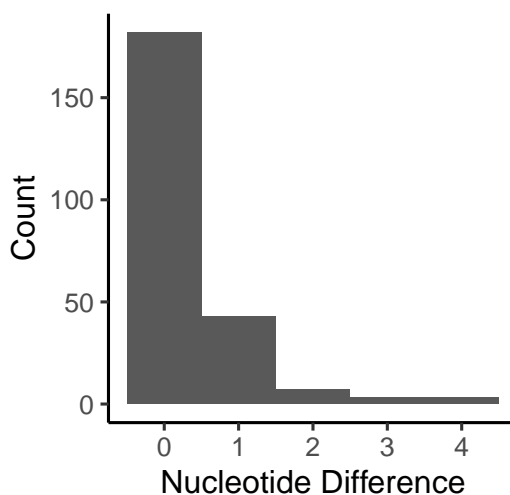
### IGKV1-8\*01

489 sequences assigned  
384 (78.5%) exact matches, in which:  
259 unique CDR3  
5 unique J



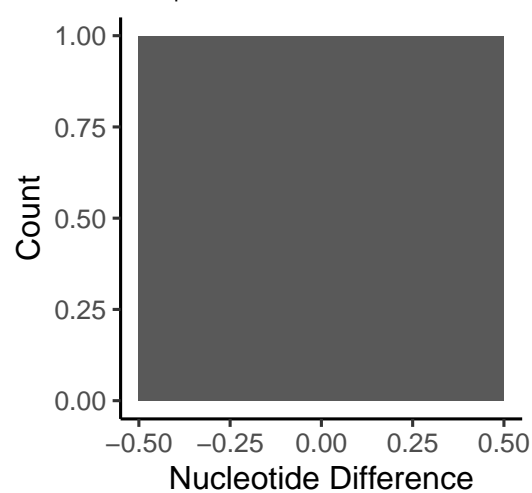
### IGKV1-17\*01

238 sequences assigned  
182 (76.5%) exact matches, in which:  
138 unique CDR3  
5 unique J



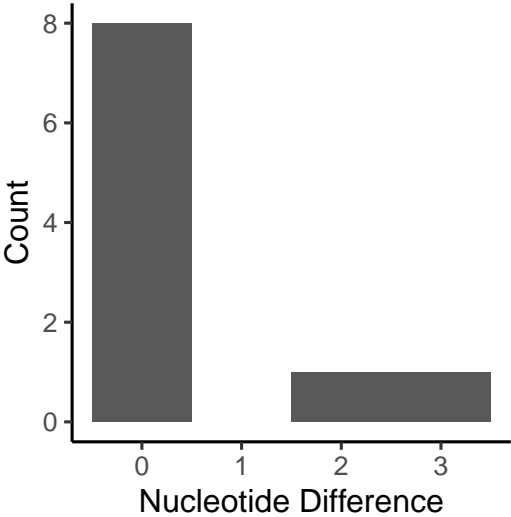
### IGKV1/OR2-1\*01

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



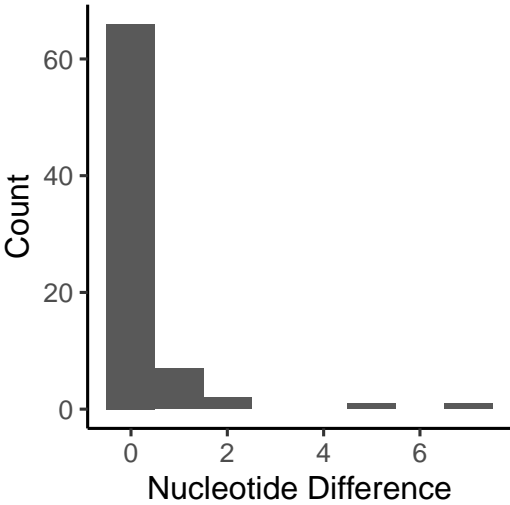
IGKV2/OR22-4\*01

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



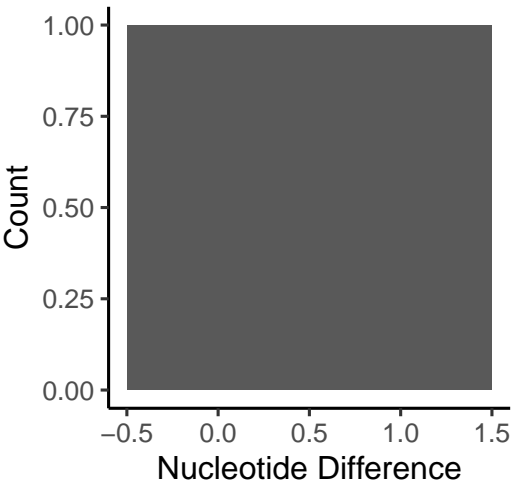
IGKV2-24\*01

77 sequences assigned  
66 (85.7%) exact matches, in which:  
58 unique CDR3  
5 unique J



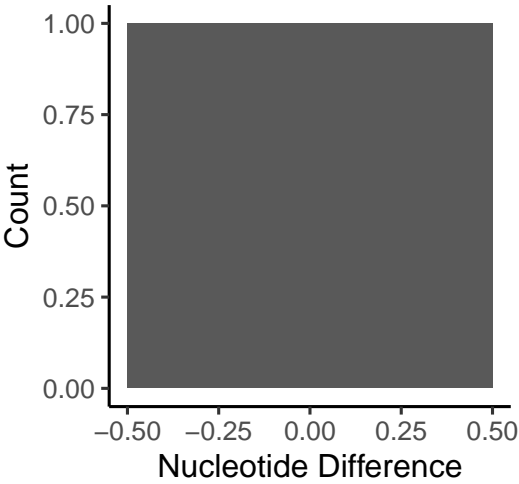
IGKV1/OR2-108\*01

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



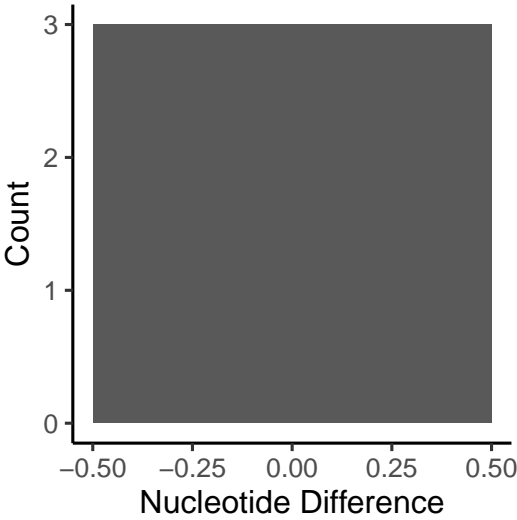
IGKV2-4\*01

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



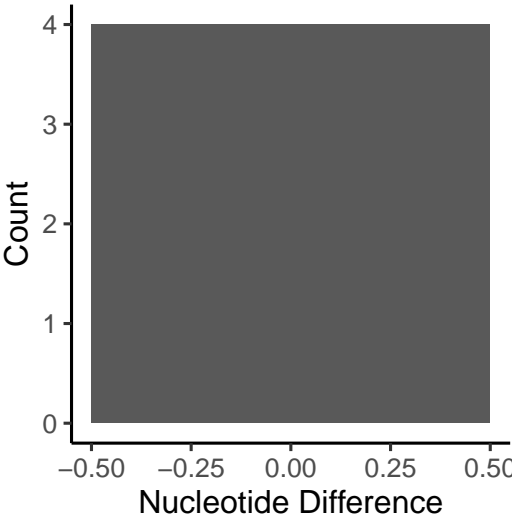
IGKV2-29\*01

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



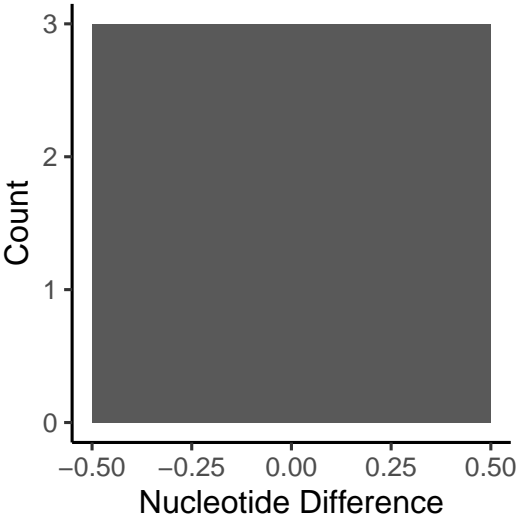
IGKV3/OR2-268\*01

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



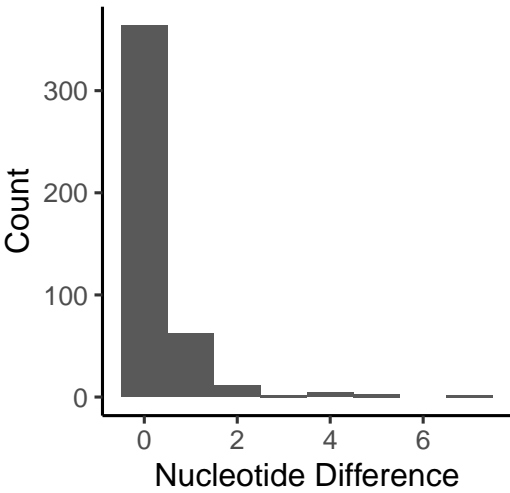
IGKV2-18\*01

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



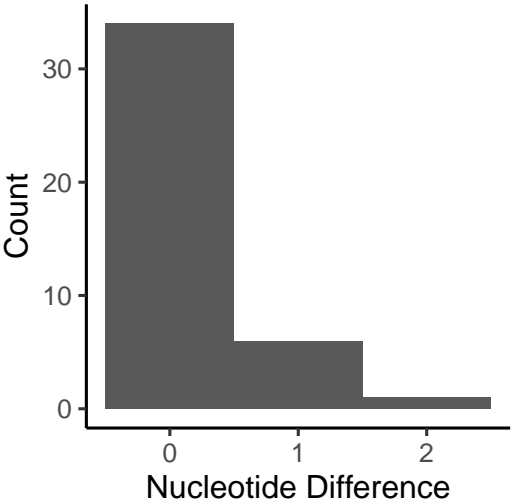
IGKV2-30\*01

448 sequences assigned  
364 (81.2%) exact matches, in which:  
311 unique CDR3  
5 unique J



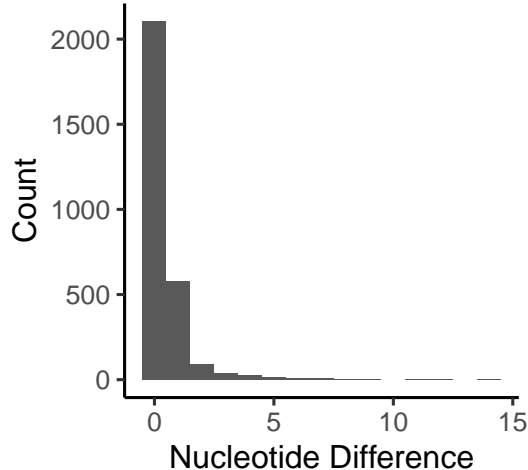
IGKV3-7\*04

41 sequences assigned  
34 (82.9%) exact matches, in which:  
30 unique CDR3  
5 unique J



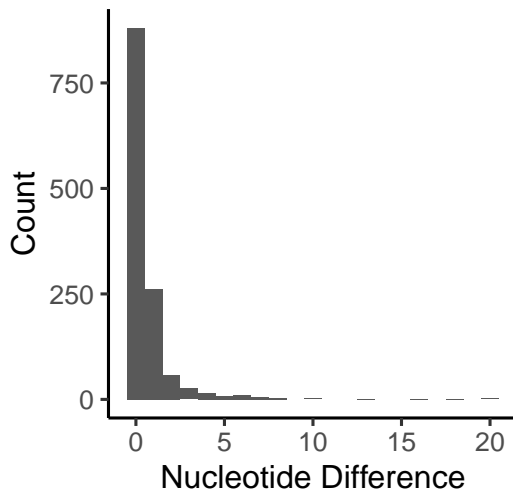
### IGKV3-11\*01

2881 sequences assigned  
2104 (73%) exact matches, in which:  
1472 unique CDR3  
5 unique J



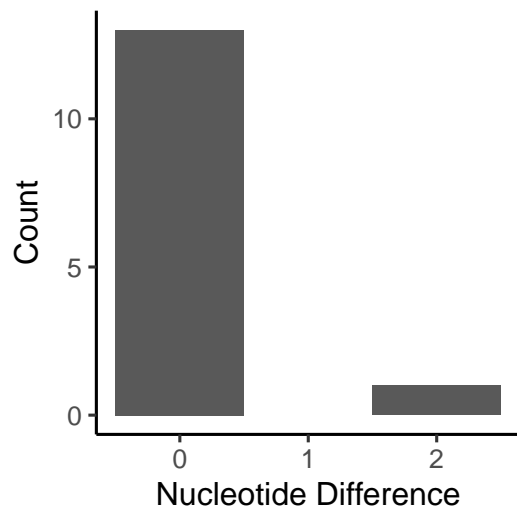
### IGKV4-1\*01

1275 sequences assigned  
881 (69.1%) exact matches, in which:  
606 unique CDR3  
5 unique J



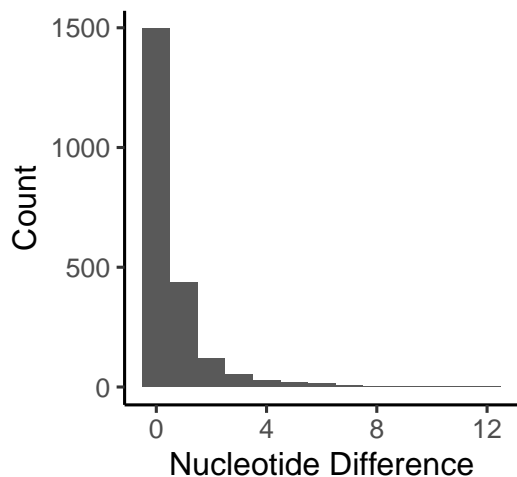
### IGKV3D-7\*01

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



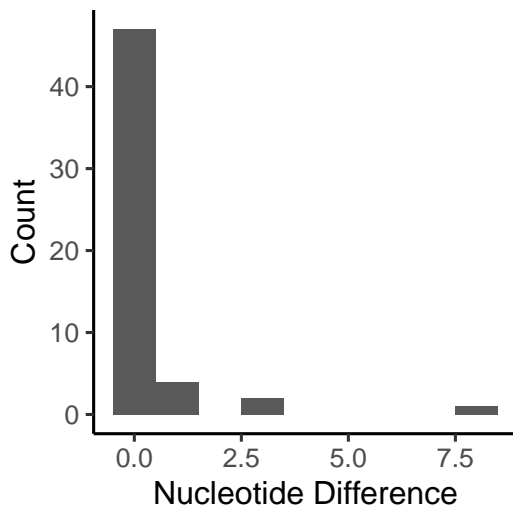
### IGKV3-15\*01

2177 sequences assigned  
1496 (68.7%) exact matches, in which:  
1110 unique CDR3  
5 unique J



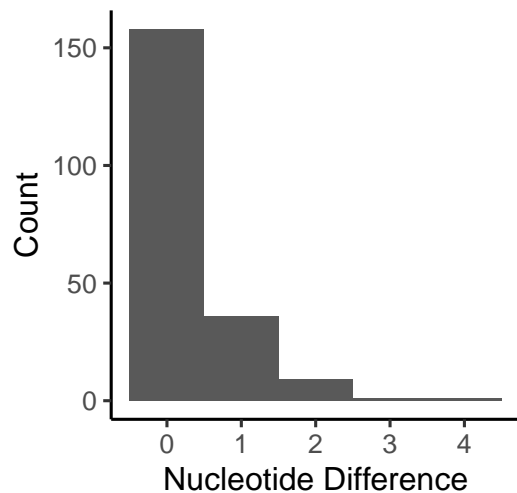
### IGKV5-2\*01

54 sequences assigned  
47 (87%) exact matches, in which:  
42 unique CDR3  
5 unique J



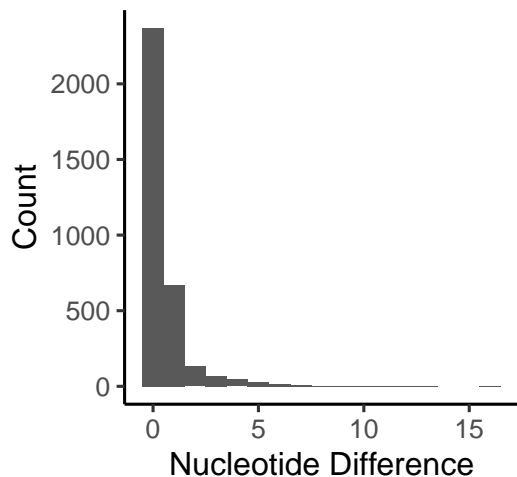
### IGKV1D-8\*01

205 sequences assigned  
158 (77.1%) exact matches, in which:  
100 unique CDR3  
5 unique J



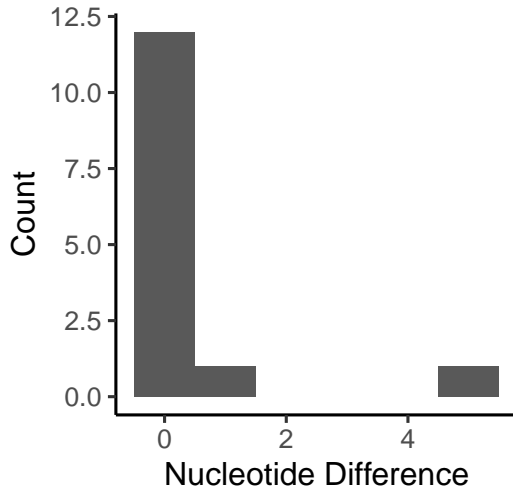
### IGKV3-20\*01

3355 sequences assigned  
2369 (70.6%) exact matches, in which:  
1687 unique CDR3  
5 unique J



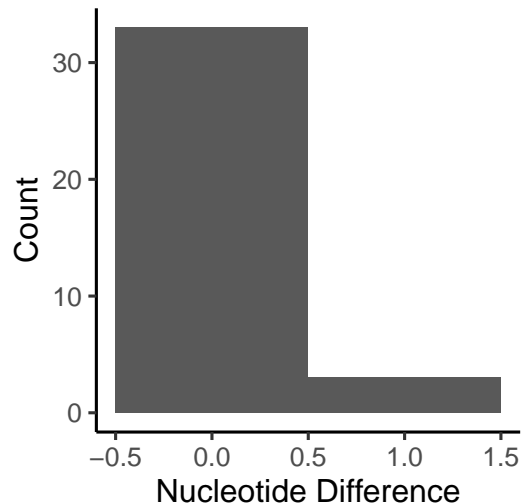
### IGKV7-3\*01

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



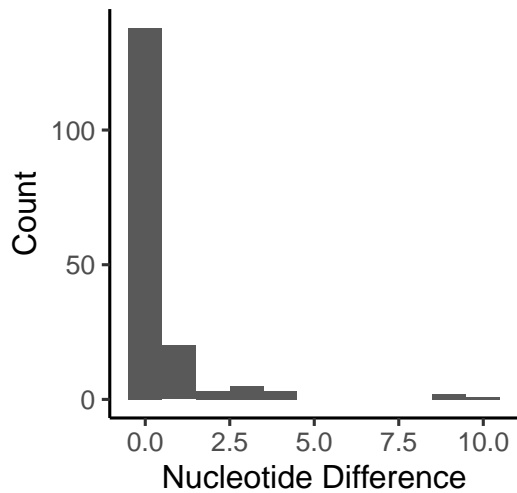
### IGKV3D-11\*01

36 sequences assigned  
33 (91.7%) exact matches, in which:  
29 unique CDR3  
4 unique J



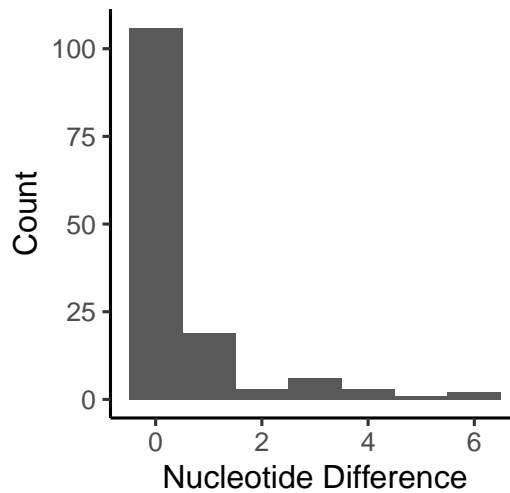
### IGKV3D-15\*01

172 sequences assigned  
138 (80.2%) exact matches, in which:  
116 unique CDR3  
5 unique J



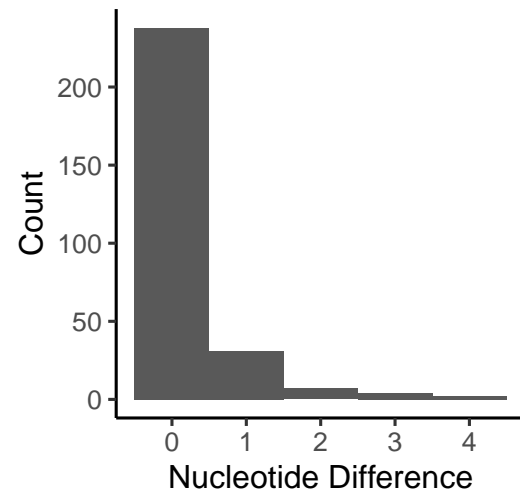
### IGKV3D-20\*01

140 sequences assigned  
106 (75.7%) exact matches, in which:  
92 unique CDR3  
5 unique J



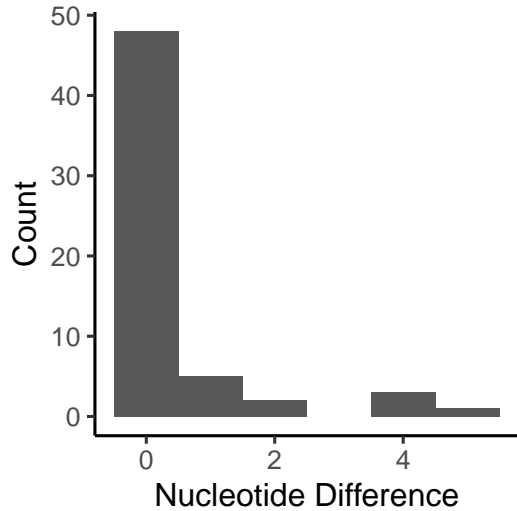
### IGKV2D-29\*01

283 sequences assigned  
238 (84.1%) exact matches, in which:  
192 unique CDR3  
5 unique J



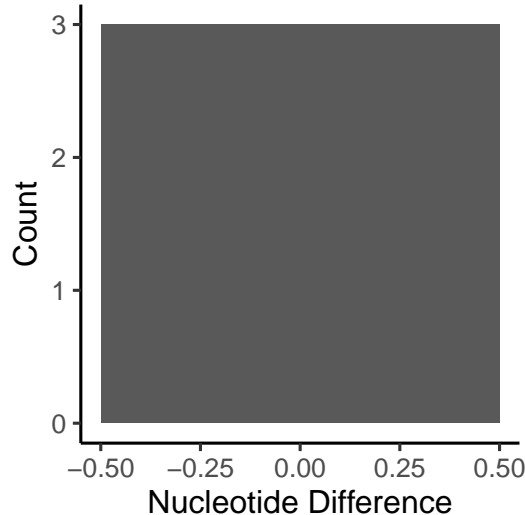
### IGKV1D-16\*01

59 sequences assigned  
48 (81.4%) exact matches, in which:  
36 unique CDR3  
5 unique J



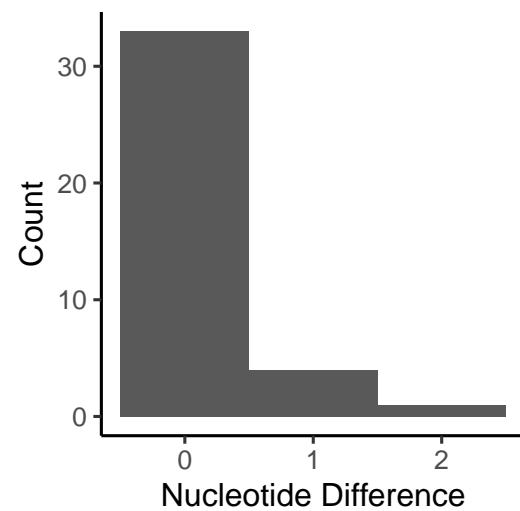
### IGKV2D-24\*01

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



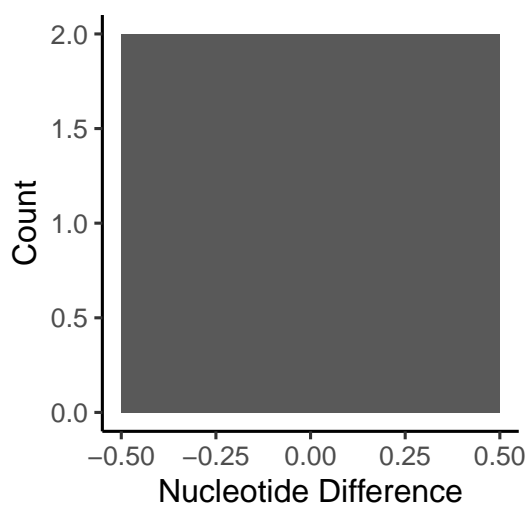
### IGKV2D-30\*01

38 sequences assigned  
33 (86.8%) exact matches, in which:  
30 unique CDR3  
4 unique J



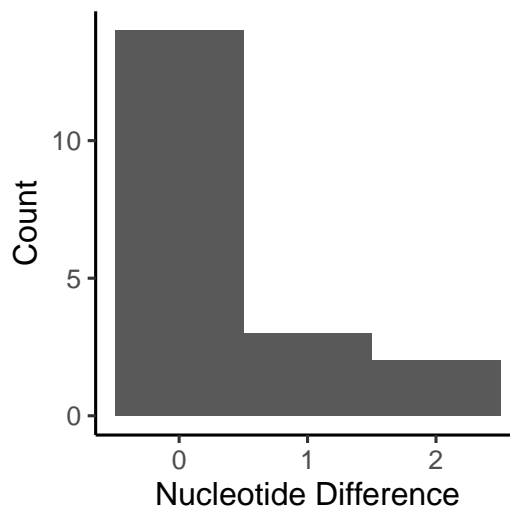
### IGKV1D-17\*01

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



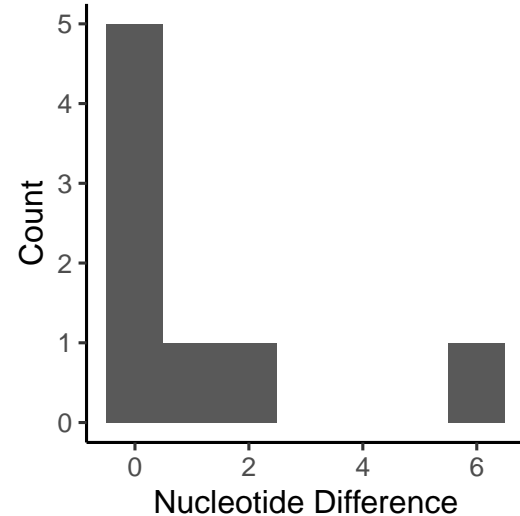
### IGKV2D-26\*03

19 sequences assigned  
14 (73.7%) exact matches, in which:  
12 unique CDR3  
4 unique J



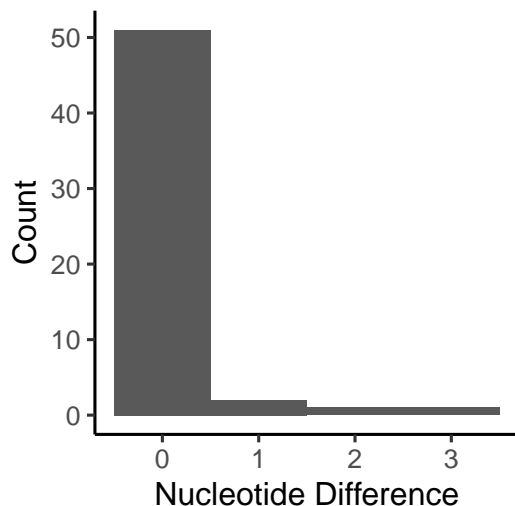
### IGKV6D-41\*01

8 sequences assigned  
5 (62.5%) exact matches, in which:  
5 unique CDR3  
3 unique J



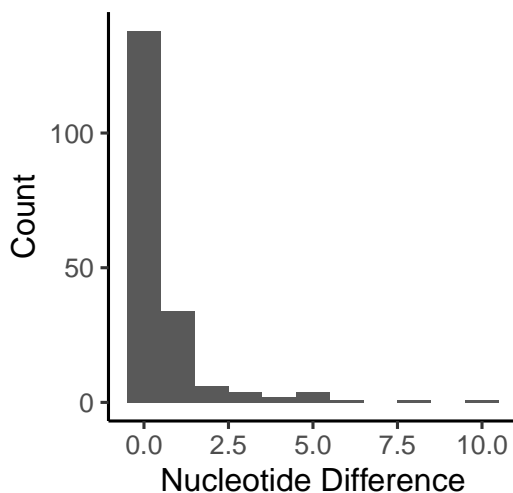
### IGKV1D-43\*01

55 sequences assigned  
51 (92.7%) exact matches, in which:  
46 unique CDR3  
5 unique J



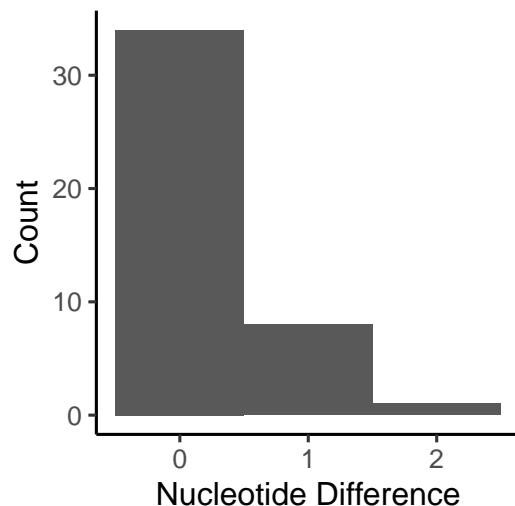
### IGKV1E-12\*03

191 sequences assigned  
138 (72.3%) exact matches, in which:  
106 unique CDR3  
5 unique J



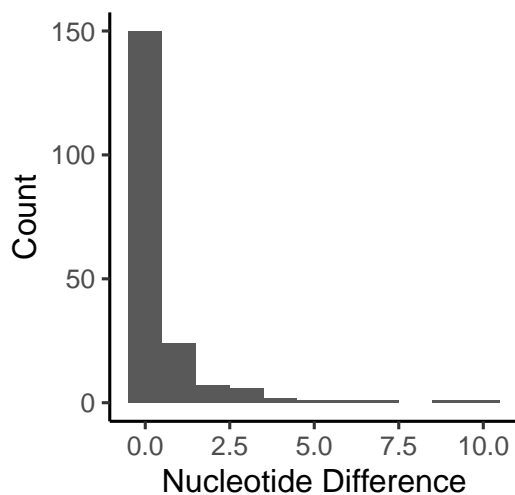
### IGKV6E-21\*03

43 sequences assigned  
34 (79.1%) exact matches, in which:  
30 unique CDR3  
5 unique J



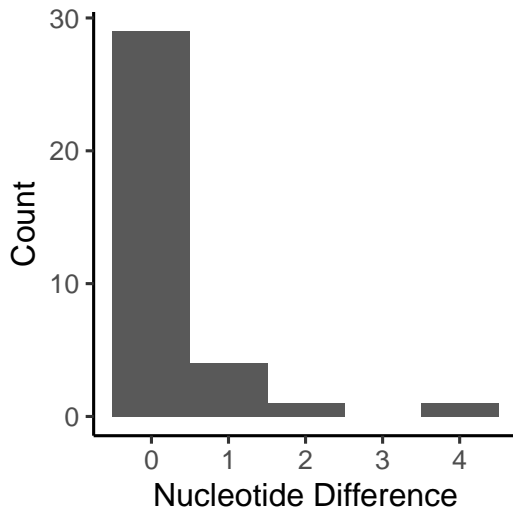
### IGKV1E-12\*01

194 sequences assigned  
150 (77.3%) exact matches, in which:  
96 unique CDR3  
5 unique J



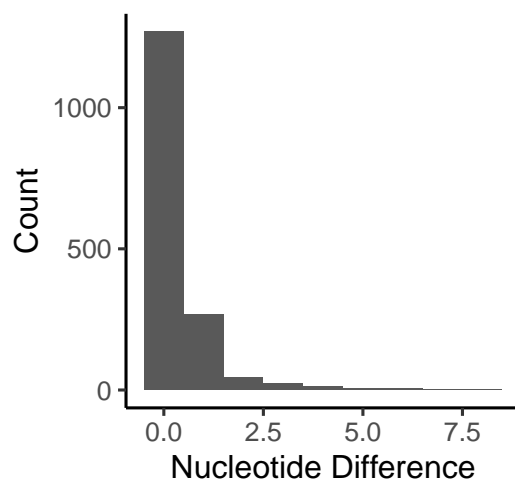
### IGKV1E-13\*03

35 sequences assigned  
29 (82.9%) exact matches, in which:  
25 unique CDR3  
4 unique J



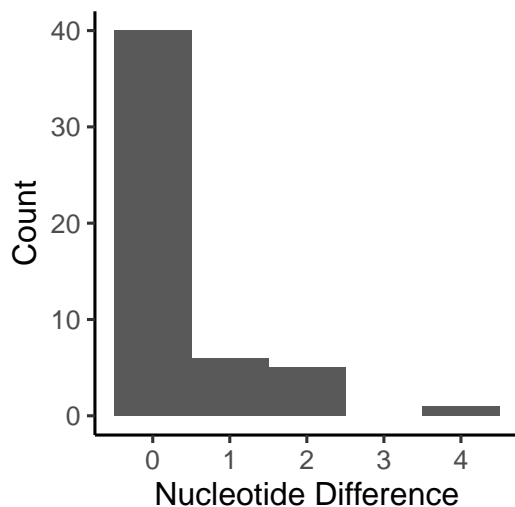
### IGKV2E-28\*01

1627 sequences assigned  
1269 (78%) exact matches, in which:  
876 unique CDR3  
5 unique J



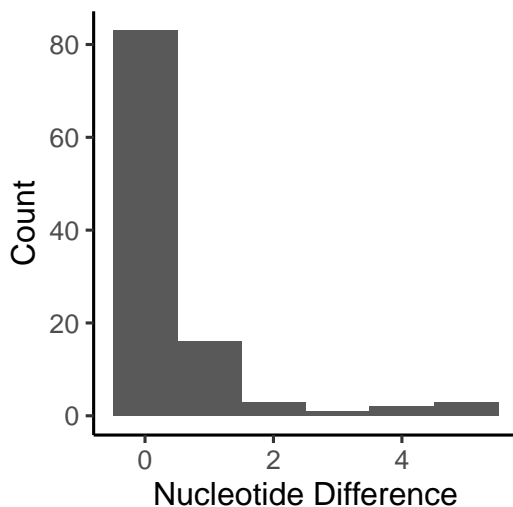
### IGKV1E-12\*02

52 sequences assigned  
40 (76.9%) exact matches, in which:  
30 unique CDR3  
5 unique J



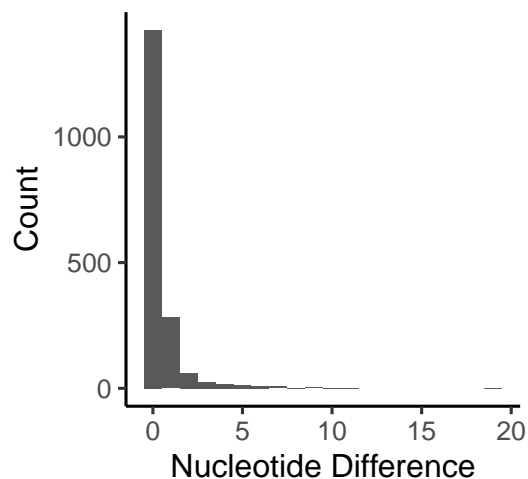
### IGKV6E-21\*01

108 sequences assigned  
83 (76.9%) exact matches, in which:  
59 unique CDR3  
5 unique J



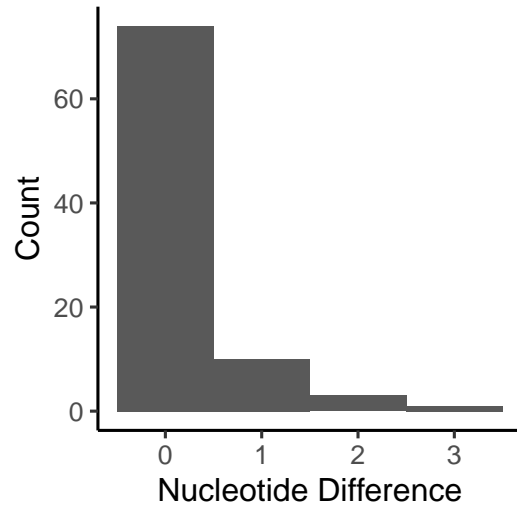
### IGKV1E-33\*01

1844 sequences assigned  
1425 (77.3%) exact matches, in which:  
985 unique CDR3  
5 unique J



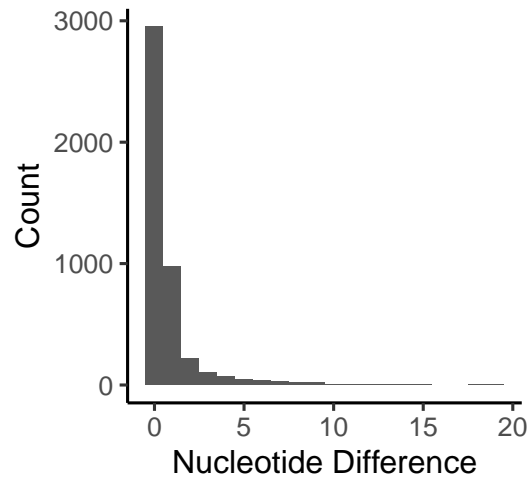
## IGKV1E-37\*01

88 sequences assigned  
74 (84.1%) exact matches, in which:  
67 unique CDR3  
5 unique J



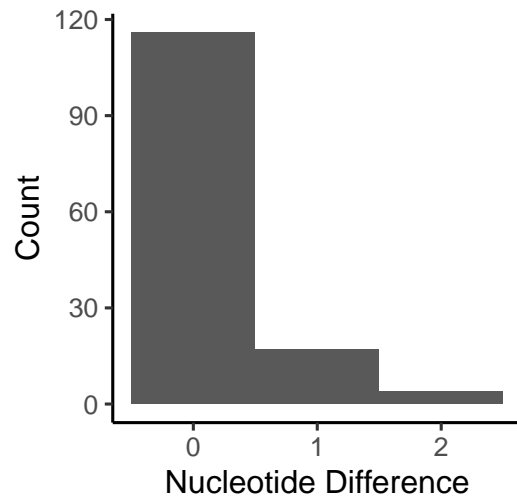
## IGKV1E-39\*01

4494 sequences assigned  
2951 (65.7%) exact matches, in which:  
1867 unique CDR3  
5 unique J



## IGKV2E-40\*01

137 sequences assigned  
116 (84.7%) exact matches, in which:  
95 unique CDR3  
5 unique J





Warning – no inferred sequences found.