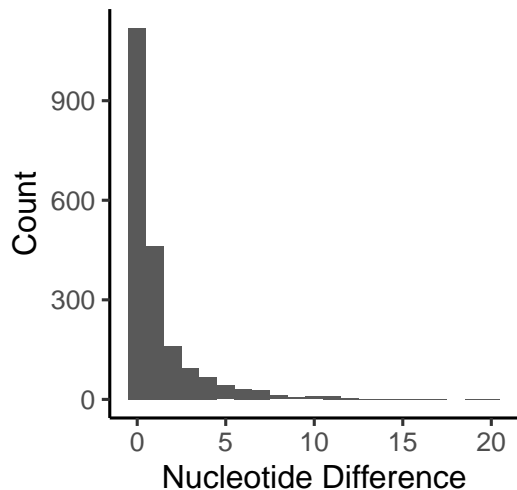


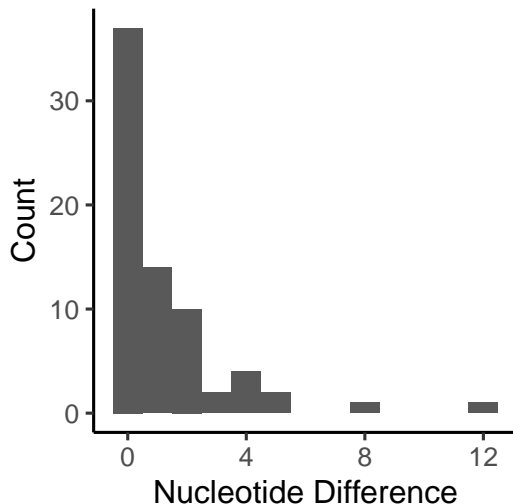
### IGKV1-5\*01

2060 sequences assigned  
1120 (54.4%) exact matches, in which:  
891 unique CDR3  
5 unique J



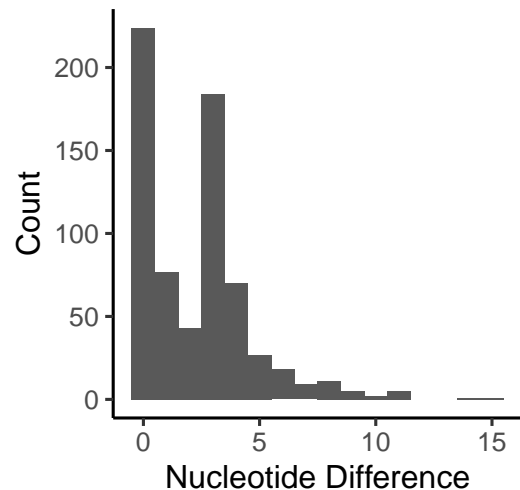
### IGKV1-6\*01\_G9A

71 sequences assigned  
37 (52.1%) exact matches, in which:  
34 unique CDR3  
5 unique J



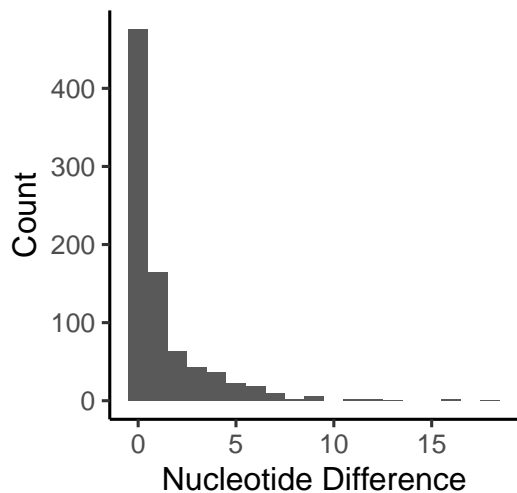
### IGKV1-9\*01

677 sequences assigned  
224 (33.1%) exact matches, in which:  
183 unique CDR3  
5 unique J



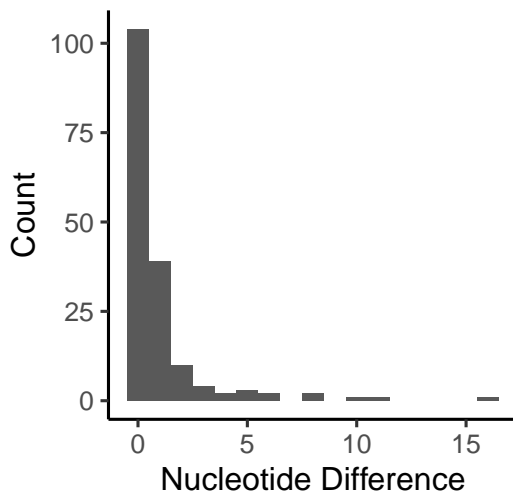
### IGKV1-5\*03

849 sequences assigned  
476 (56.1%) exact matches, in which:  
418 unique CDR3  
5 unique J



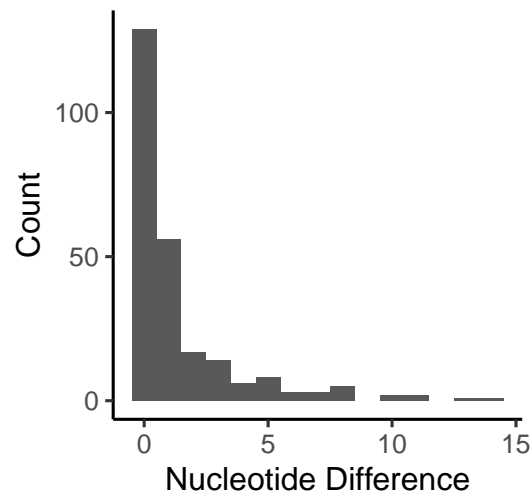
### IGKV1-8\*01

169 sequences assigned  
104 (61.5%) exact matches, in which:  
89 unique CDR3  
5 unique J



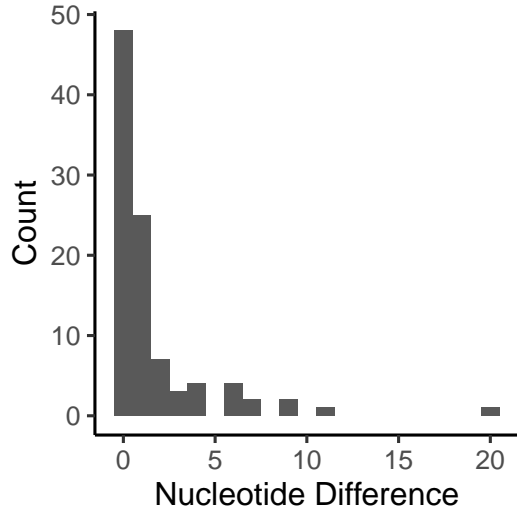
### IGKV1-16\*02

247 sequences assigned  
129 (52.2%) exact matches, in which:  
99 unique CDR3  
5 unique J



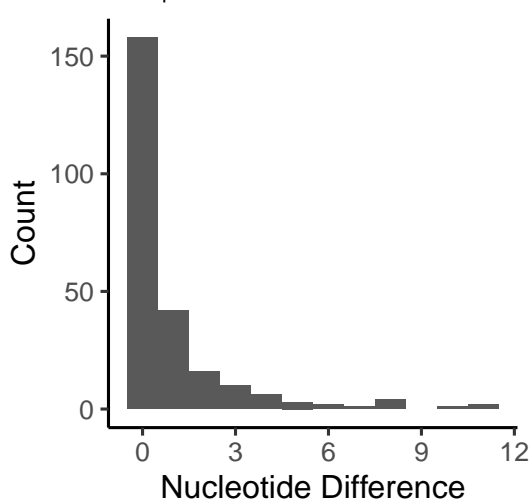
### IGKV1-6\*01

97 sequences assigned  
48 (49.5%) exact matches, in which:  
46 unique CDR3  
5 unique J



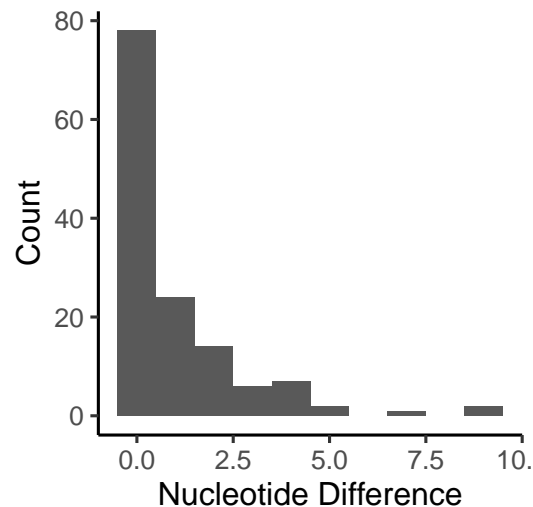
### IGKV1-8\*01\_T31C

245 sequences assigned  
158 (64.5%) exact matches, in which:  
138 unique CDR3  
5 unique J



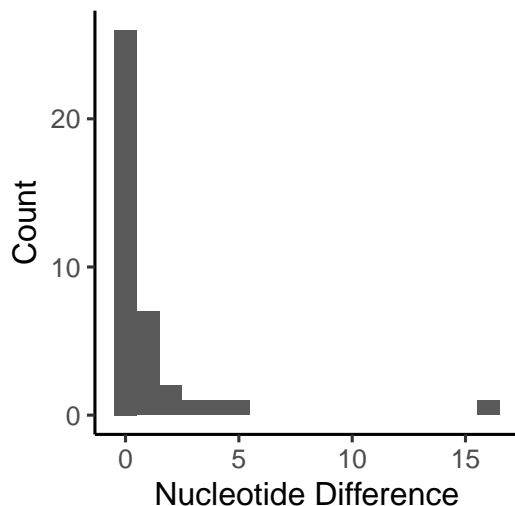
### IGKV1-17\*01

134 sequences assigned  
78 (58.2%) exact matches, in which:  
61 unique CDR3  
5 unique J



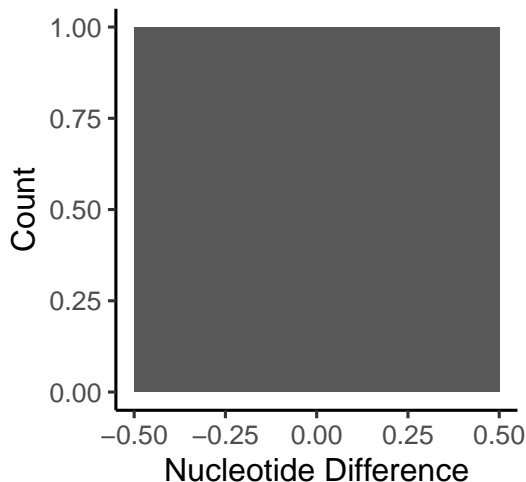
### IGKV1-17\*03

39 sequences assigned  
26 (66.7%) exact matches, in which:  
25 unique CDR3  
5 unique J



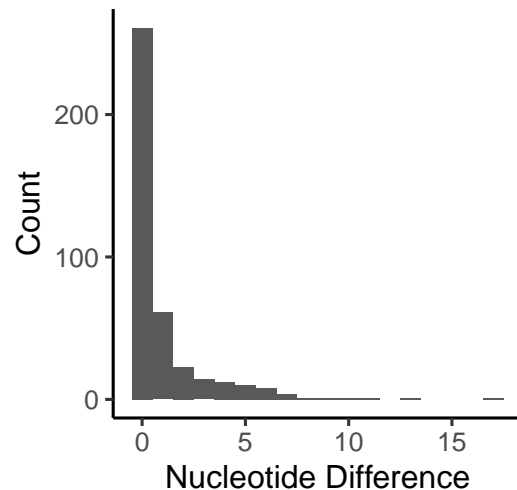
### IGKV2/OR22-4\*01

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



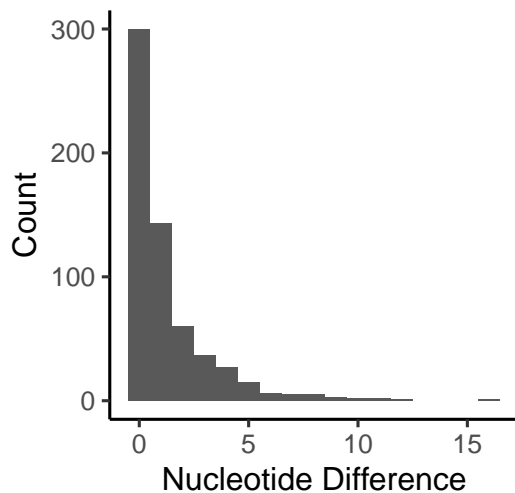
### IGKV2-30\*01

399 sequences assigned  
261 (65.4%) exact matches, in which:  
236 unique CDR3  
5 unique J



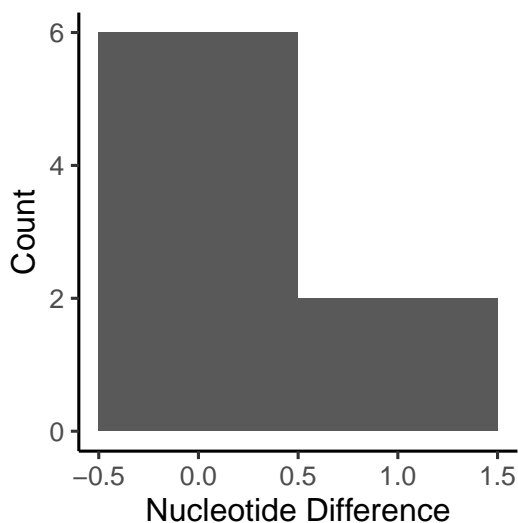
### IGKV1-27\*01

607 sequences assigned  
300 (49.4%) exact matches, in which:  
259 unique CDR3  
5 unique J



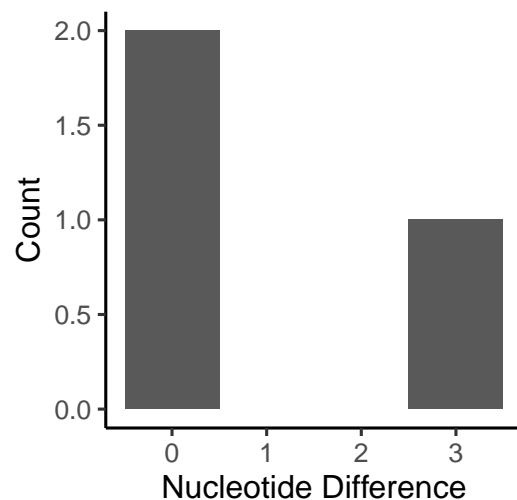
### IGKV2-18\*01

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



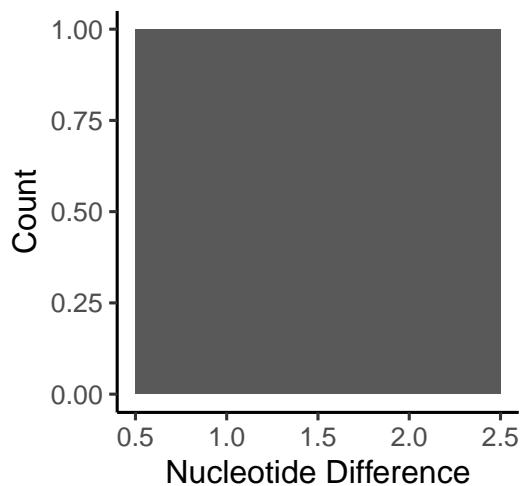
### IGKV1/OR2-108\*01

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



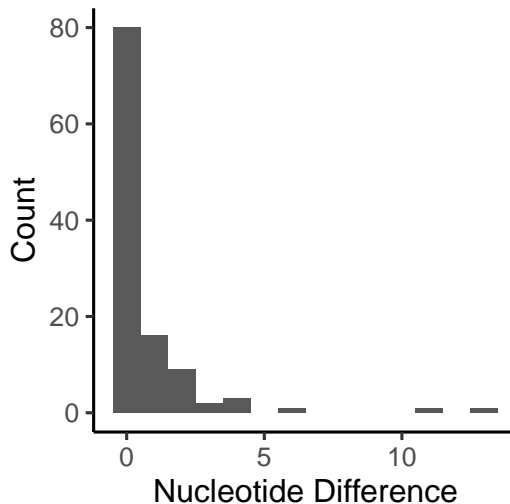
### IGKV2-4\*01

2 sequences assigned  
No exact matches.



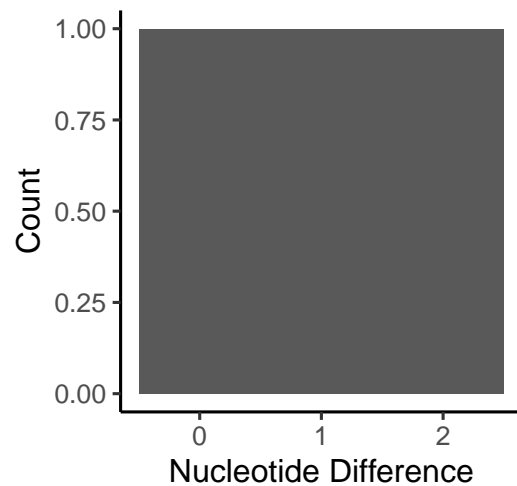
### IGKV2-24\*01

113 sequences assigned  
80 (70.8%) exact matches, in which:  
69 unique CDR3  
5 unique J



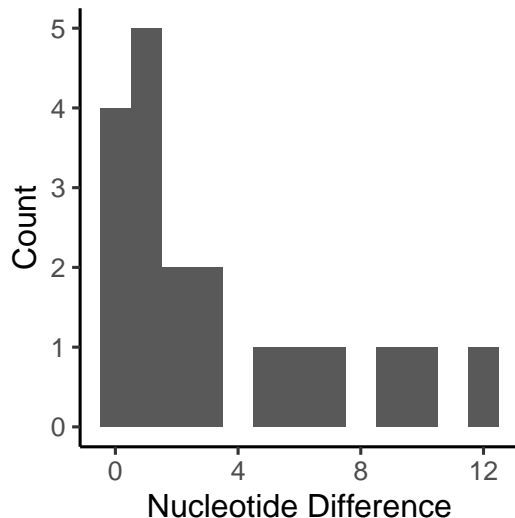
### IGKV3/OR2-268\*01

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



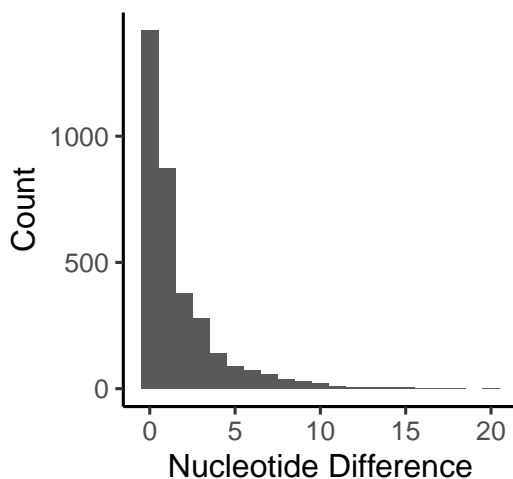
### IGKV3-7\*04

19 sequences assigned  
4 (21.1%) exact matches, in which:  
4 unique CDR3  
3 unique J



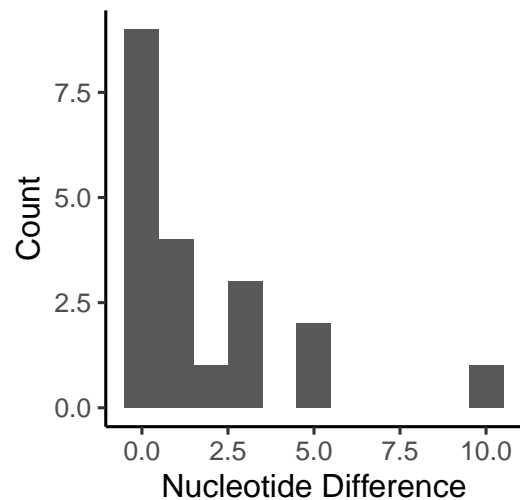
### IGKV3-20\*01

3441 sequences assigned  
1419 (41.2%) exact matches, in which:  
1092 unique CDR3  
5 unique J



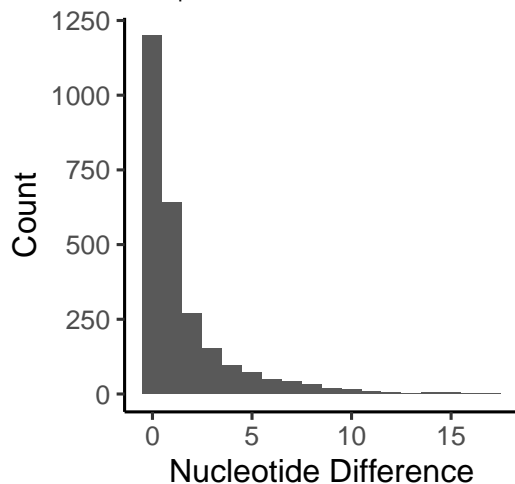
### IGKV5-2\*01

20 sequences assigned  
9 (45%) exact matches, in which:  
9 unique CDR3  
3 unique J



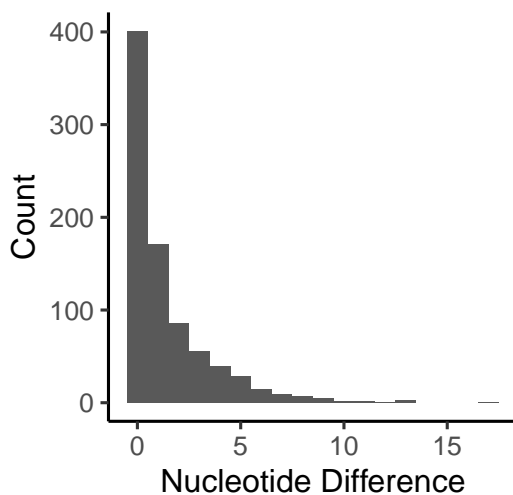
### IGKV3-11\*01

2615 sequences assigned  
1199 (45.9%) exact matches, in which:  
910 unique CDR3  
5 unique J



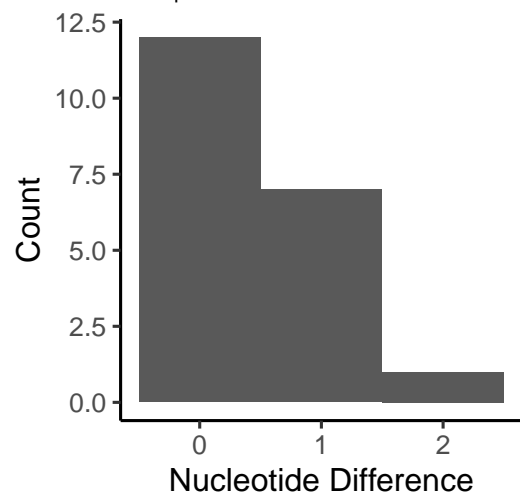
### IGKV4-1\*01

827 sequences assigned  
401 (48.5%) exact matches, in which:  
291 unique CDR3  
5 unique J



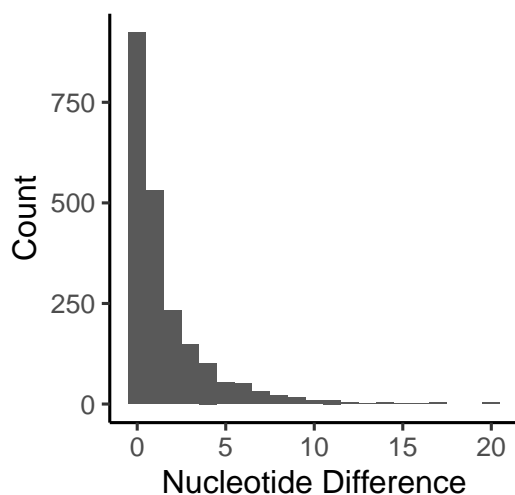
### IGKV5-2\*01\_C214T

20 sequences assigned  
12 (60%) exact matches, in which:  
12 unique CDR3  
2 unique J



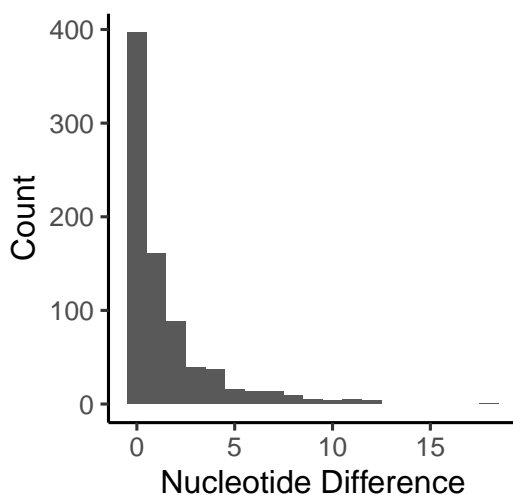
### IGKV3-15\*01

2153 sequences assigned  
924 (42.9%) exact matches, in which:  
736 unique CDR3  
5 unique J



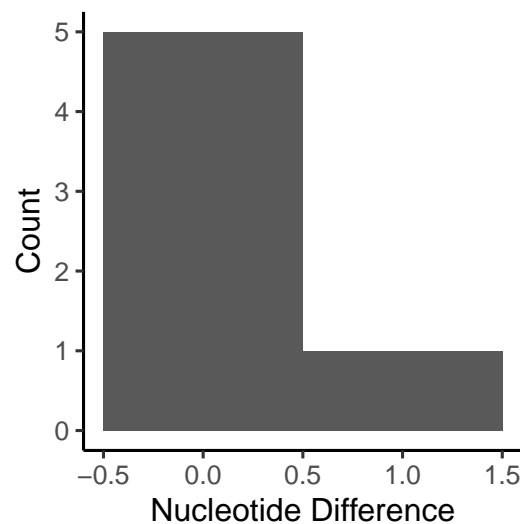
### IGKV4-1\*01\_A318G

792 sequences assigned  
397 (50.1%) exact matches, in which:  
285 unique CDR3  
5 unique J



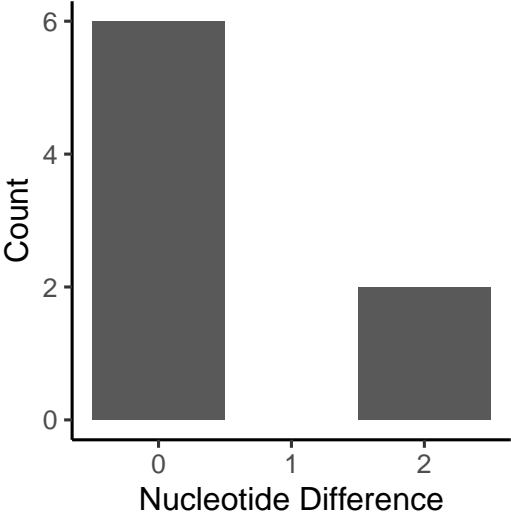
### IGKV7-3\*01

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



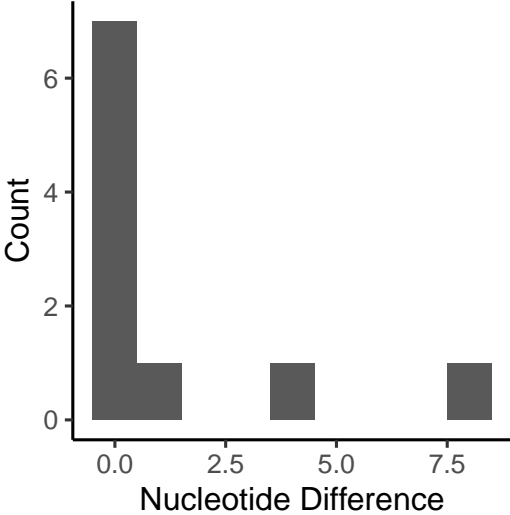
IGKV3D-7\*01

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



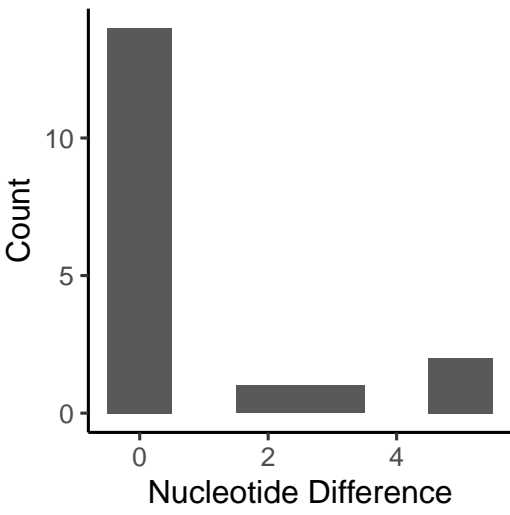
IGKV3D-11\*01

10 sequences assigned  
7 (70%) exact matches, in which:  
6 unique CDR3  
3 unique J



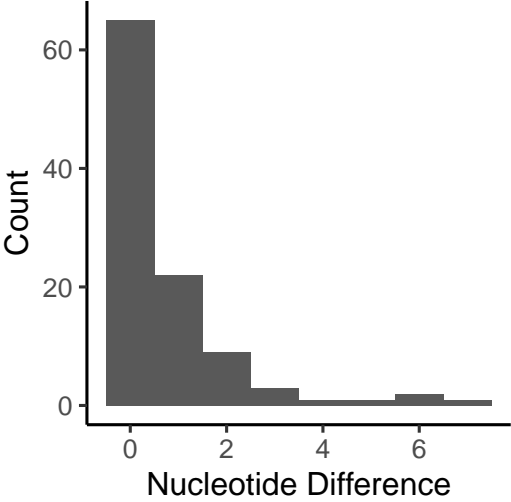
IGKV1D-16\*01

18 sequences assigned  
14 (77.8%) exact matches, in which:  
14 unique CDR3  
4 unique J



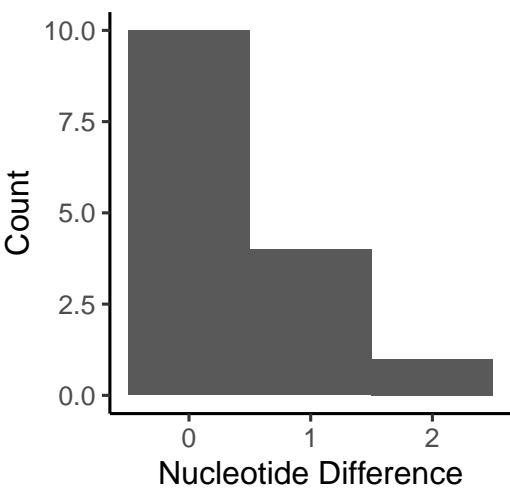
IGKV1D-8\*01

104 sequences assigned  
65 (62.5%) exact matches, in which:  
50 unique CDR3  
5 unique J



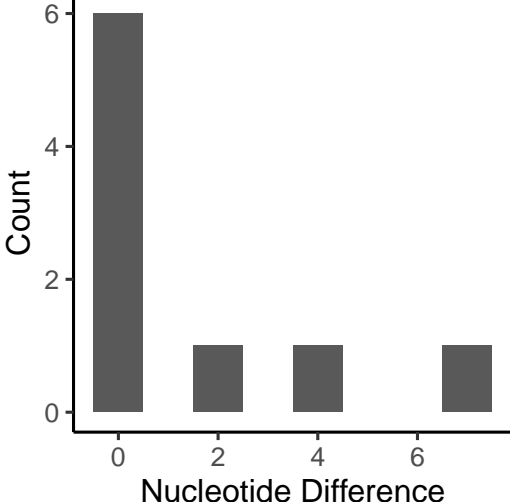
IGKV3D-11\*02

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



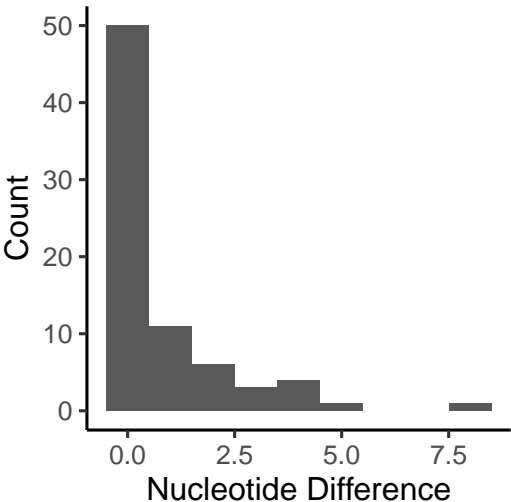
IGKV1D-16\*02

9 sequences assigned  
6 (66.7%) exact matches, in which:  
6 unique CDR3  
4 unique J



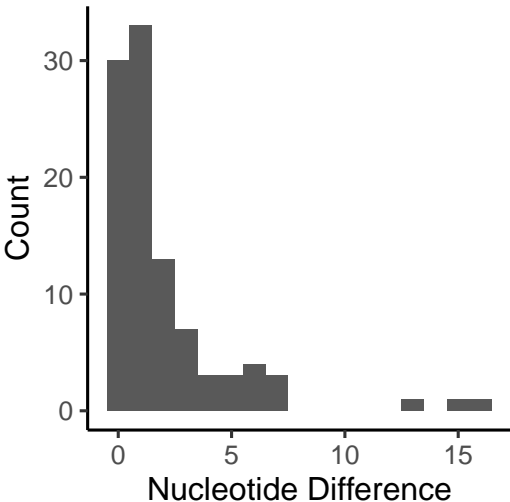
IGKV1D-8\*03

76 sequences assigned  
50 (65.8%) exact matches, in which:  
41 unique CDR3  
5 unique J



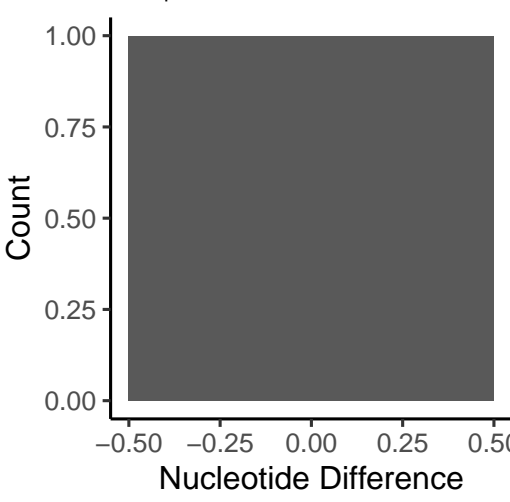
IGKV3D-15\*01

99 sequences assigned  
30 (30.3%) exact matches, in which:  
28 unique CDR3  
5 unique J



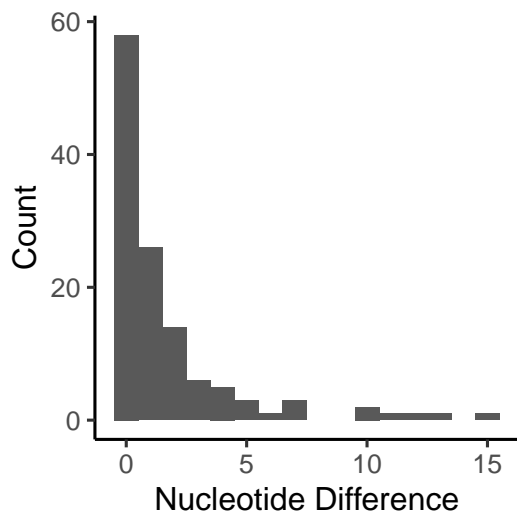
IGKV1D-17\*01

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



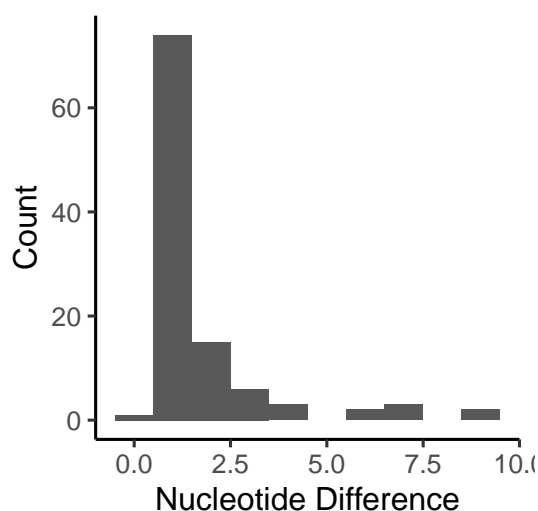
### IGKV3D-20\*01

122 sequences assigned  
58 (47.5%) exact matches, in which:  
55 unique CDR3  
5 unique J



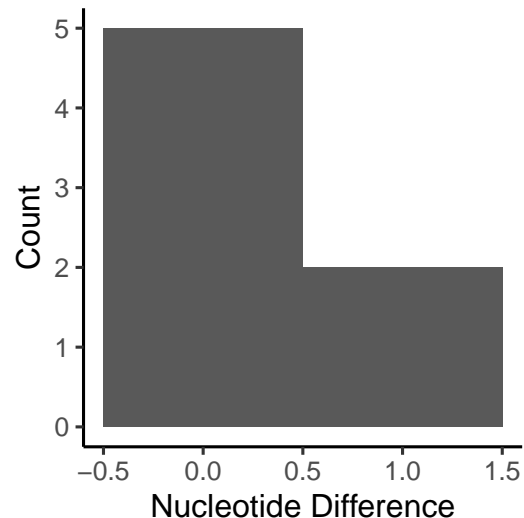
### IGKV2D-29\*01

106 sequences assigned  
1 (0.9%) exact matches, in which:  
1 unique CDR3  
1 unique J



### IGKV6D-41\*01

7 sequences assigned  
5 (71.4%) exact matches, in which:  
4 unique CDR3  
2 unique J



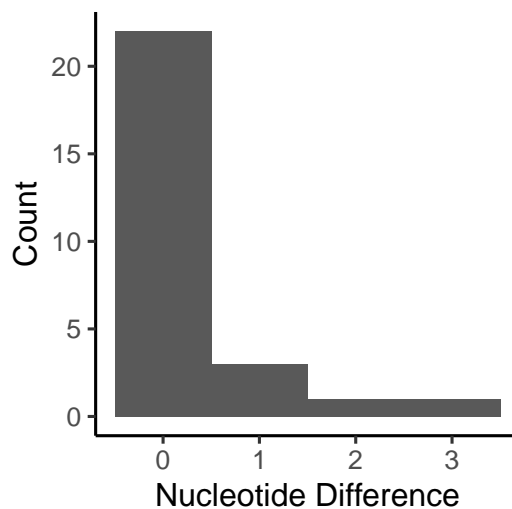
### IGKV2D-24\*01

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



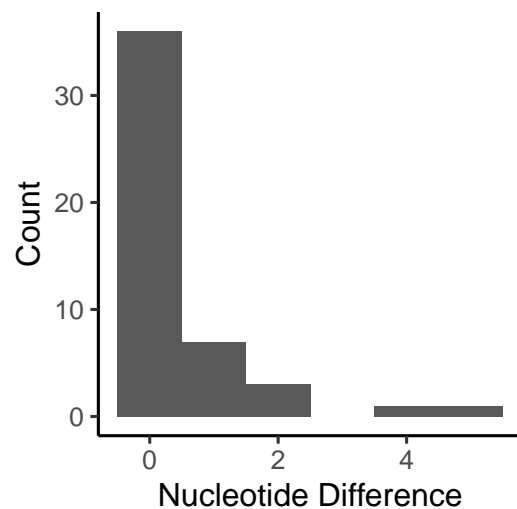
### IGKV2D-29\*02

27 sequences assigned  
22 (81.5%) exact matches, in which:  
20 unique CDR3  
5 unique J



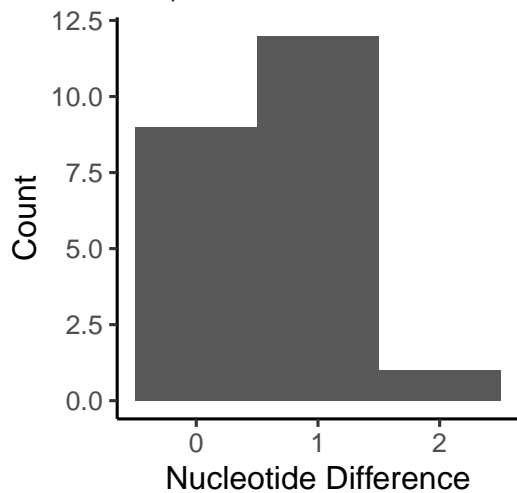
### IGKV1D-43\*01

48 sequences assigned  
36 (75%) exact matches, in which:  
33 unique CDR3  
5 unique J



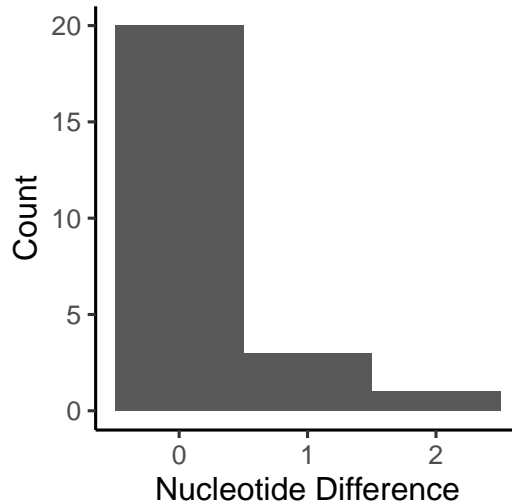
### IGKV2D-26\*03

22 sequences assigned  
9 (40.9%) exact matches, in which:  
9 unique CDR3  
3 unique J



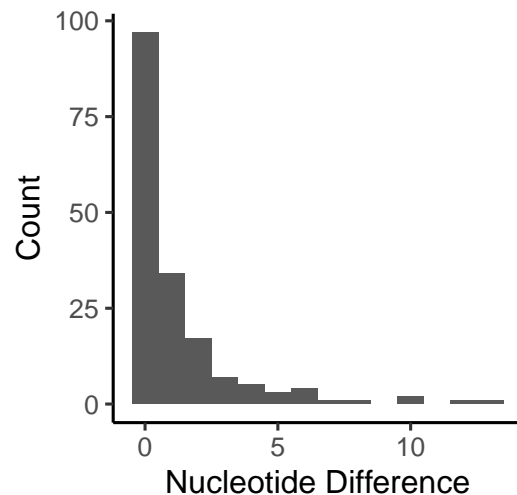
### IGKV2D-30\*01

24 sequences assigned  
20 (83.3%) exact matches, in which:  
20 unique CDR3  
4 unique J



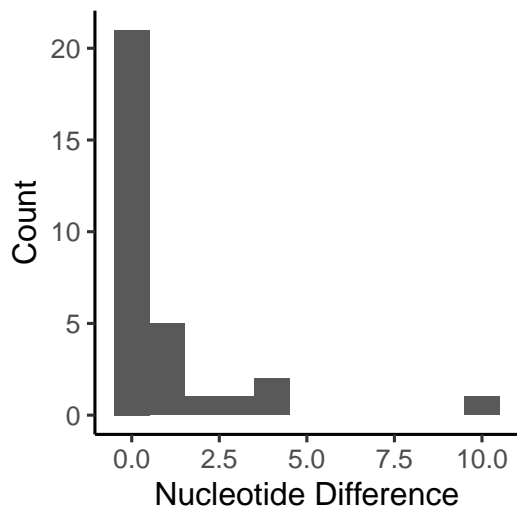
### IGKV1E-12\*01

173 sequences assigned  
97 (56.1%) exact matches, in which:  
80 unique CDR3  
5 unique J



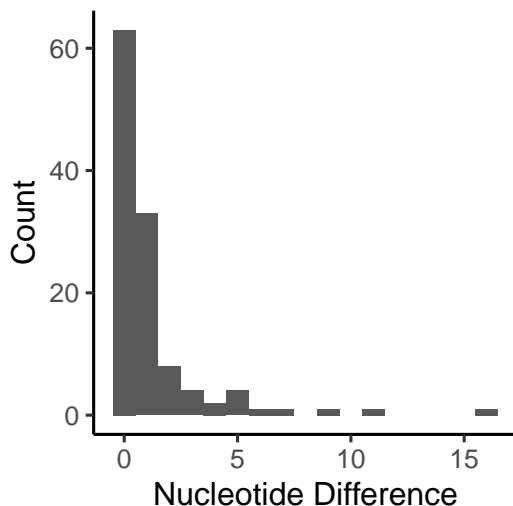
### IGKV1E-12\*02

31 sequences assigned  
21 (67.7%) exact matches, in which:  
14 unique CDR3  
5 unique J



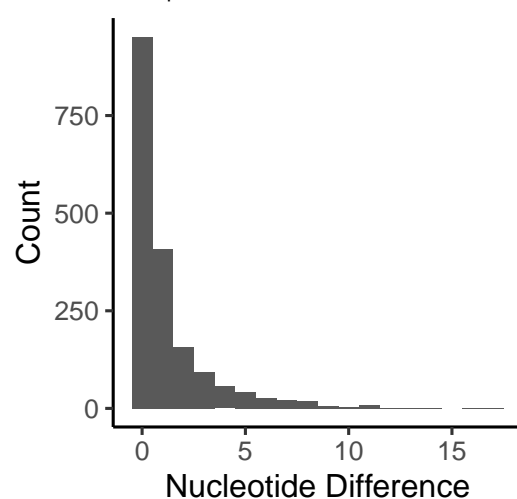
### IGKV6E-21\*01

119 sequences assigned  
63 (52.9%) exact matches, in which:  
48 unique CDR3  
5 unique J



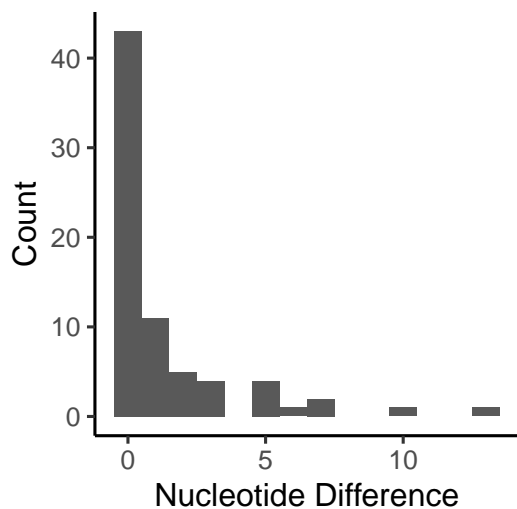
### IGKV1E-33\*01

1802 sequences assigned  
952 (52.8%) exact matches, in which:  
743 unique CDR3  
5 unique J



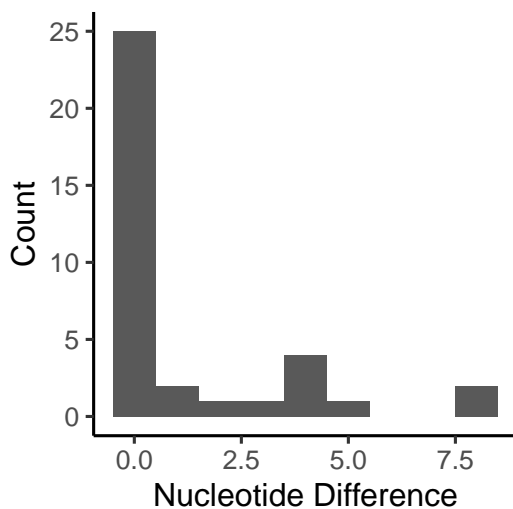
### IGKV1E-12\*03

72 sequences assigned  
43 (59.7%) exact matches, in which:  
36 unique CDR3  
5 unique J



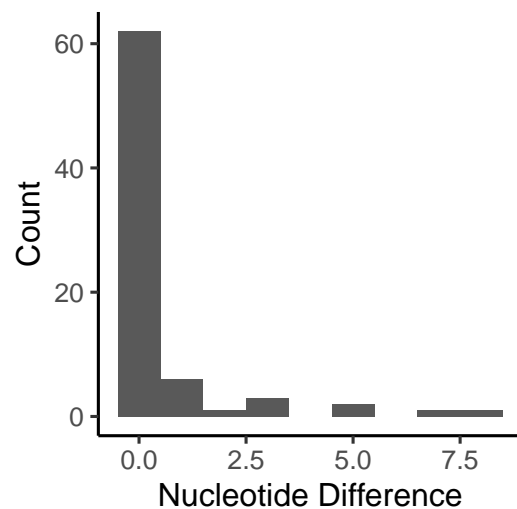
### IGKV6E-21\*03

36 sequences assigned  
25 (69.4%) exact matches, in which:  
21 unique CDR3  
4 unique J



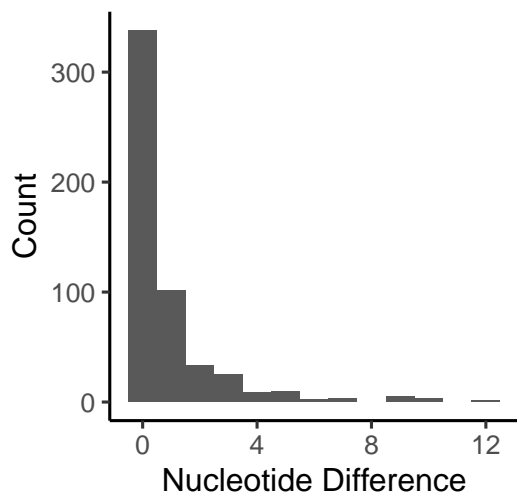
### IGKV1E-37\*01

76 sequences assigned  
62 (81.6%) exact matches, in which:  
55 unique CDR3  
5 unique J



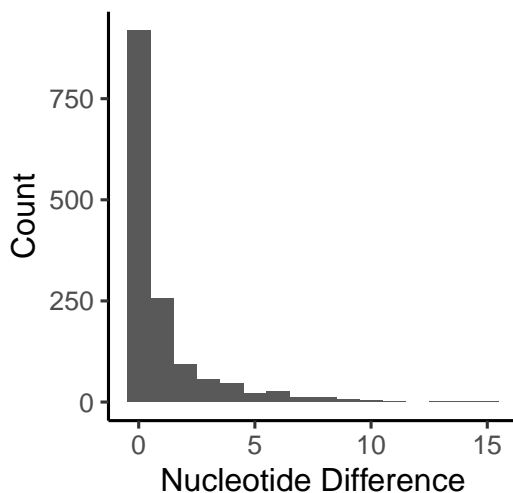
### IGKV1E-13\*02

530 sequences assigned  
338 (63.8%) exact matches, in which:  
276 unique CDR3  
5 unique J



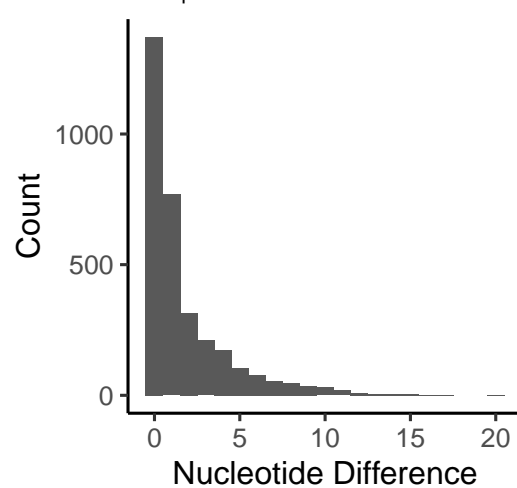
### IGKV2E-28\*01

1454 sequences assigned  
919 (63.2%) exact matches, in which:  
695 unique CDR3  
5 unique J



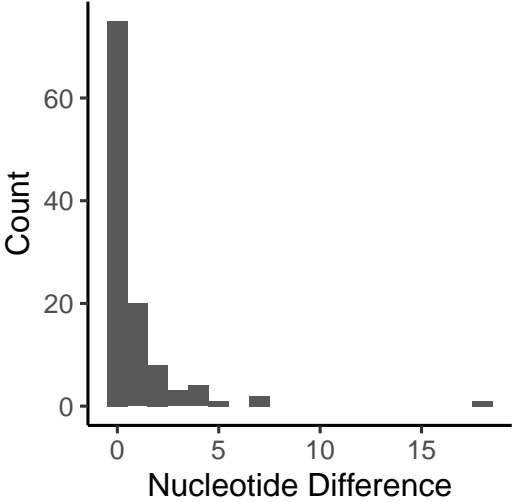
### IGKV1E-39\*01

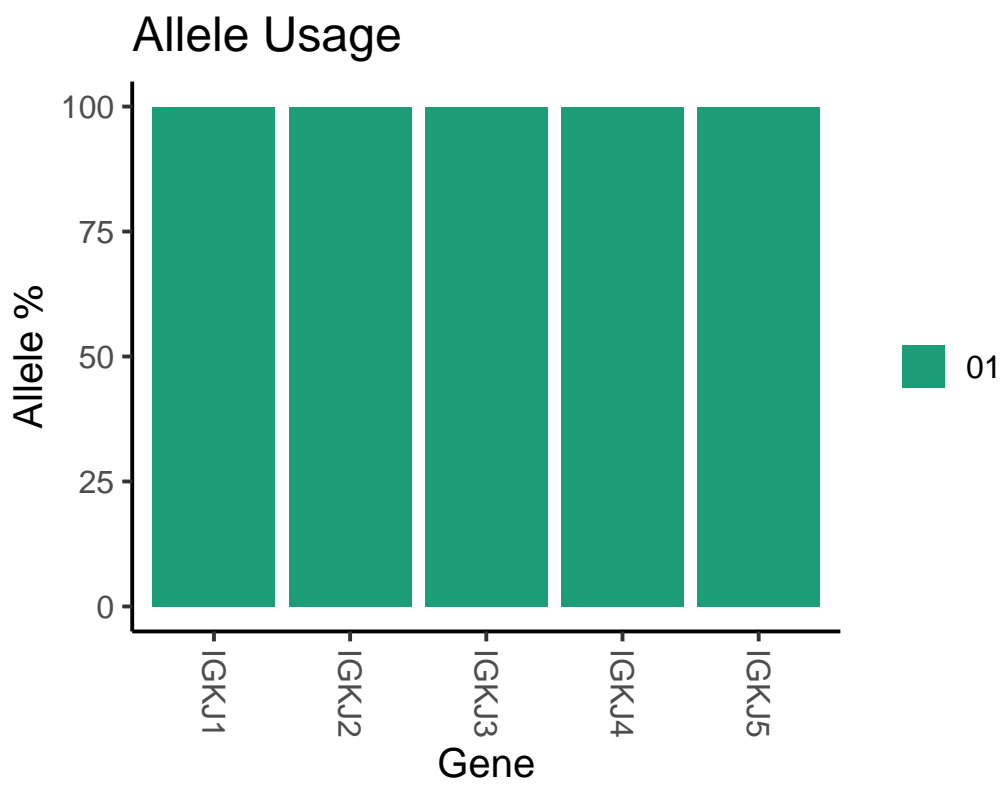
3235 sequences assigned  
1371 (42.4%) exact matches, in which:  
1048 unique CDR3  
5 unique J



# IGKV2E-40\*01

114 sequences assigned  
75 (65.8%) exact matches, in which:  
69 unique CDR3  
5 unique J







Warning – no inferred sequences found.