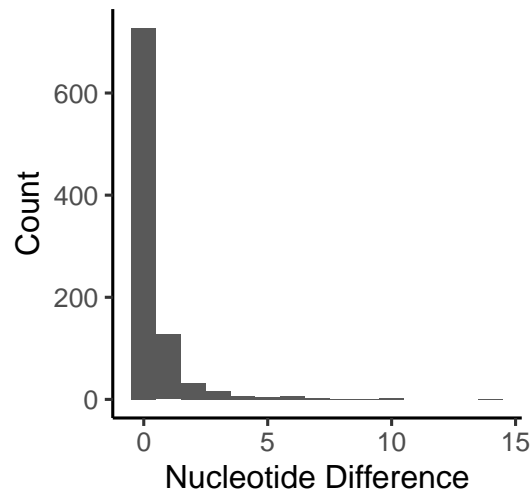


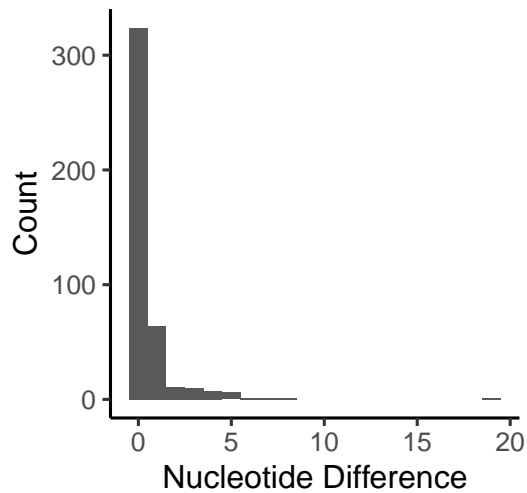
### IGKV1-5\*03

928 sequences assigned  
728 (78.4%) exact matches, in which:  
564 unique CDR3  
5 unique J



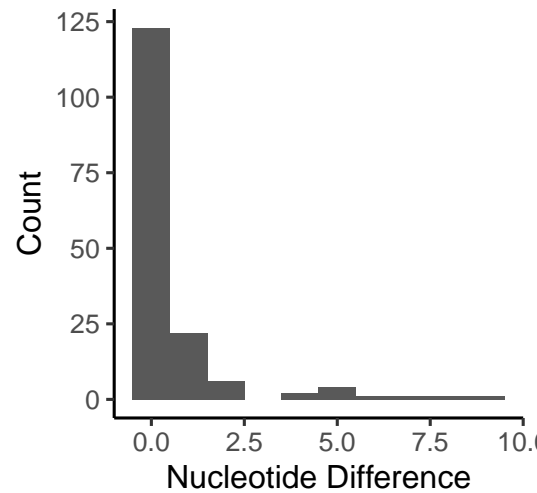
### IGKV1-9\*01

426 sequences assigned  
324 (76.1%) exact matches, in which:  
269 unique CDR3  
5 unique J



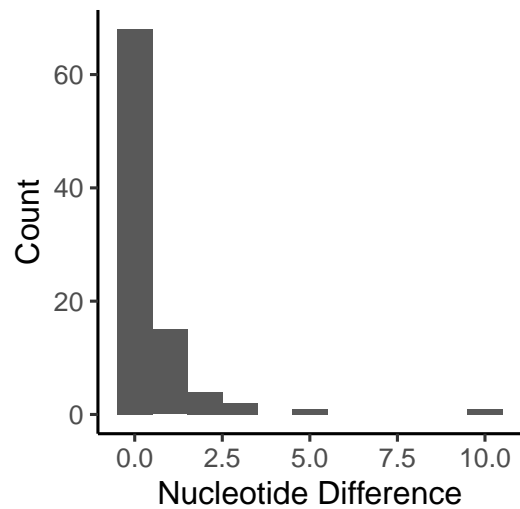
### IGKV1-27\*01

161 sequences assigned  
123 (76.4%) exact matches, in which:  
107 unique CDR3  
5 unique J



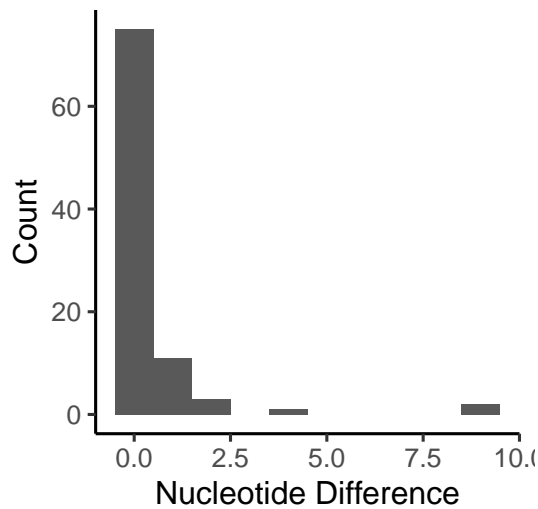
### IGKV1-6\*01

91 sequences assigned  
68 (74.7%) exact matches, in which:  
53 unique CDR3  
5 unique J



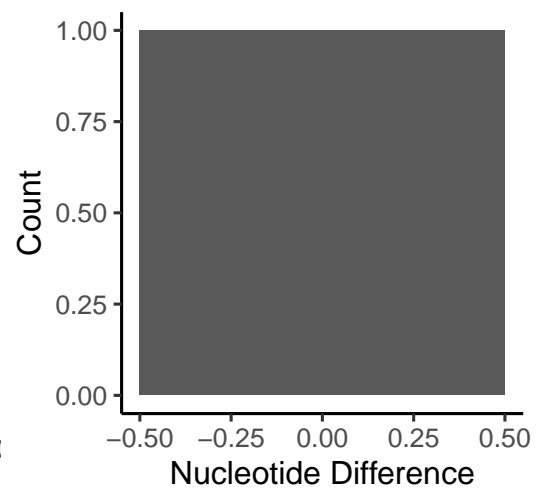
### IGKV1-16\*02

92 sequences assigned  
75 (81.5%) exact matches, in which:  
54 unique CDR3  
5 unique J



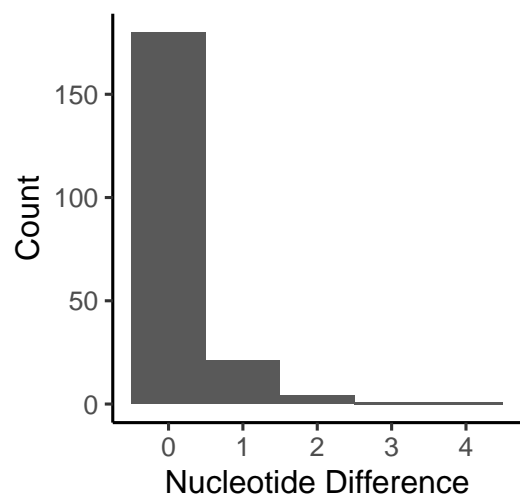
### IGKV2/OR22-4\*01

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



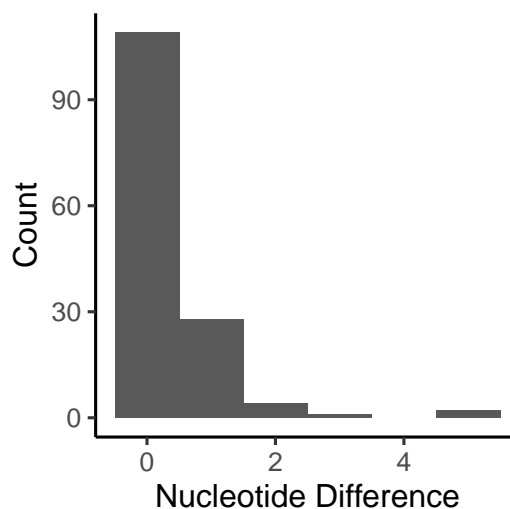
### IGKV1-8\*01

207 sequences assigned  
180 (87%) exact matches, in which:  
132 unique CDR3  
5 unique J



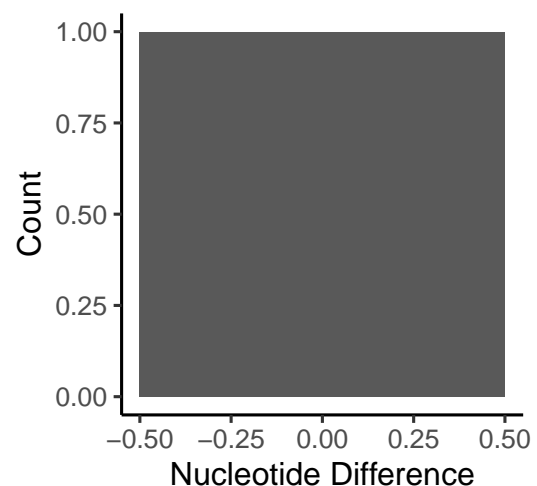
### IGKV1-17\*01

144 sequences assigned  
109 (75.7%) exact matches, in which:  
93 unique CDR3  
5 unique J



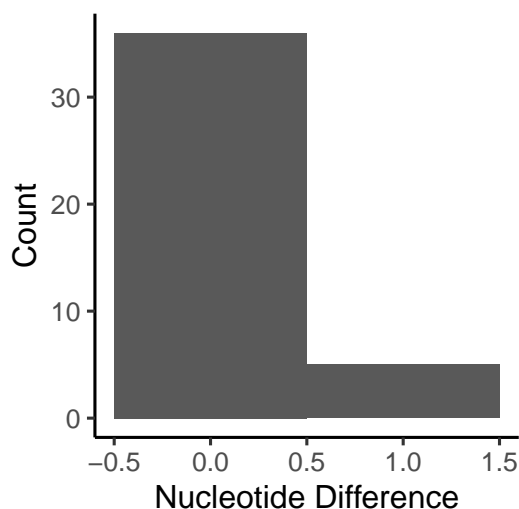
### IGKV2-4\*01

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



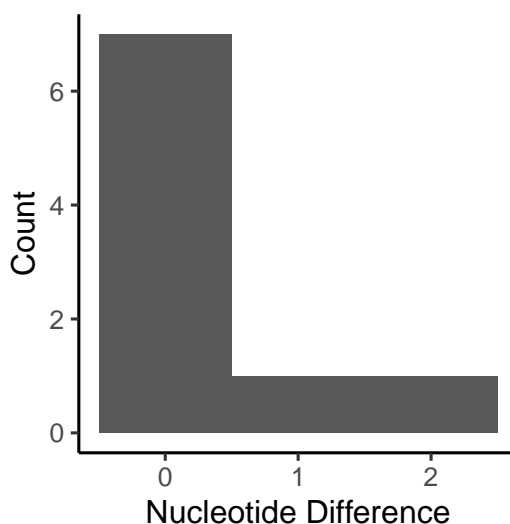
### IGKV2-24\*01

41 sequences assigned  
36 (87.8%) exact matches, in which:  
33 unique CDR3  
5 unique J



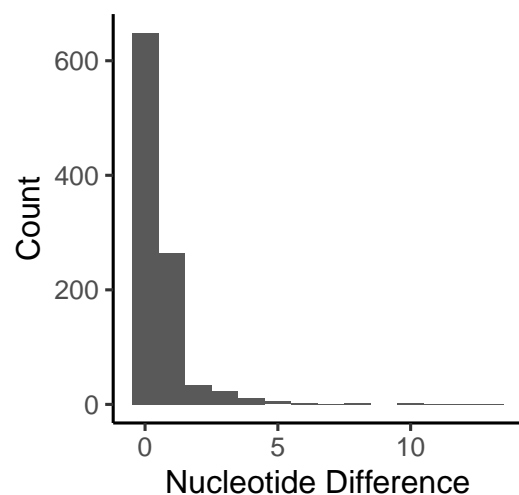
### IGKV3-7\*04

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



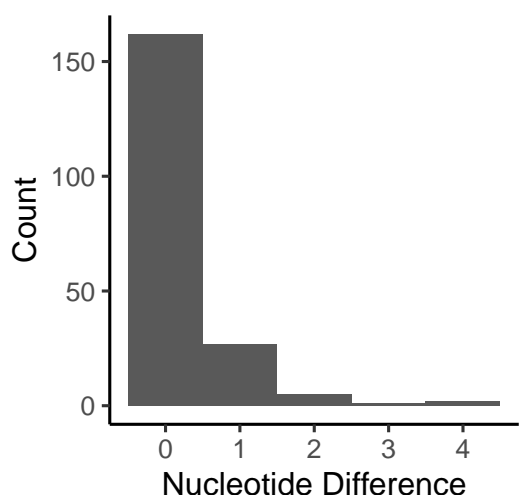
### IGKV3-15\*01

999 sequences assigned  
649 (65%) exact matches, in which:  
537 unique CDR3  
5 unique J



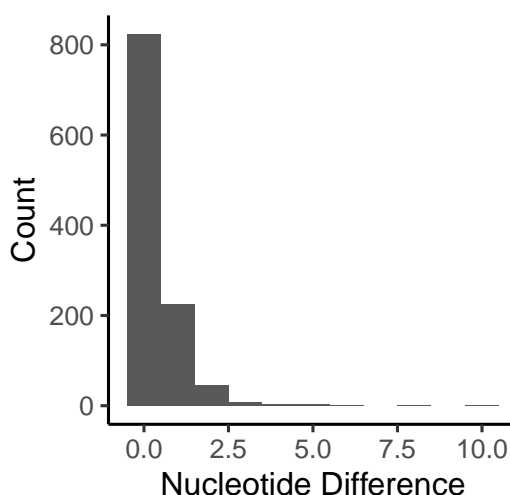
### IGKV2-30\*01

197 sequences assigned  
162 (82.2%) exact matches, in which:  
149 unique CDR3  
5 unique J



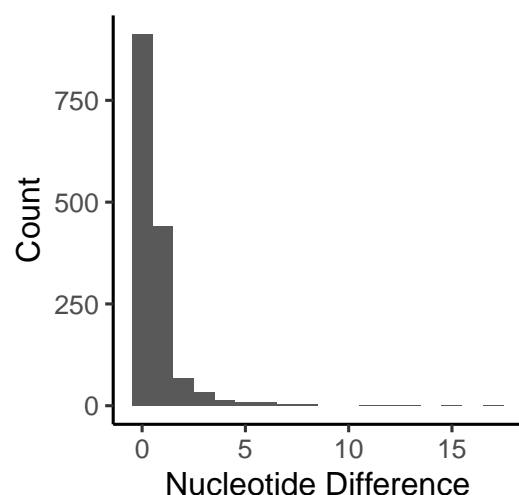
### IGKV3-11\*01

1114 sequences assigned  
824 (74%) exact matches, in which:  
657 unique CDR3  
5 unique J



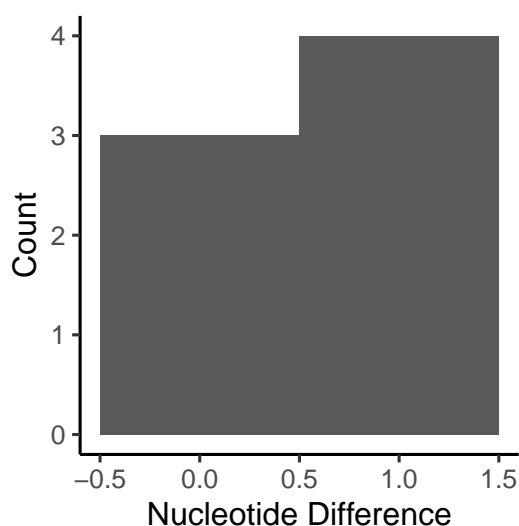
### IGKV3-20\*01

1497 sequences assigned  
913 (61%) exact matches, in which:  
739 unique CDR3  
5 unique J



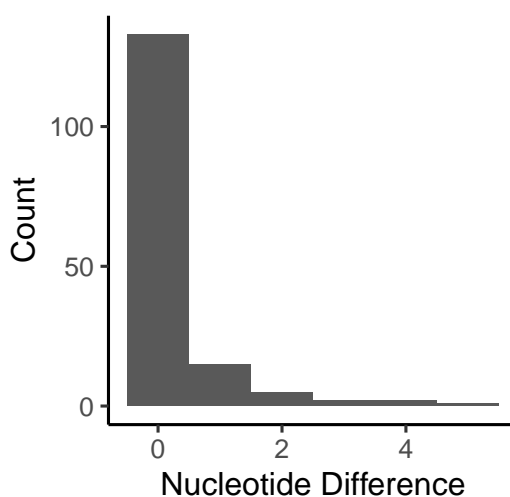
### IGKV3/OR2-268\*01

7 sequences assigned  
3 (42.9%) exact matches, in which:  
3 unique CDR3  
3 unique J



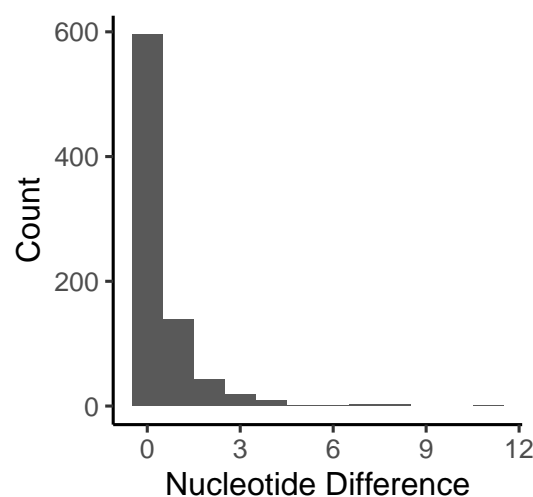
### IGKV3-11\*01\_A223C

158 sequences assigned  
133 (84.2%) exact matches, in which:  
126 unique CDR3  
5 unique J



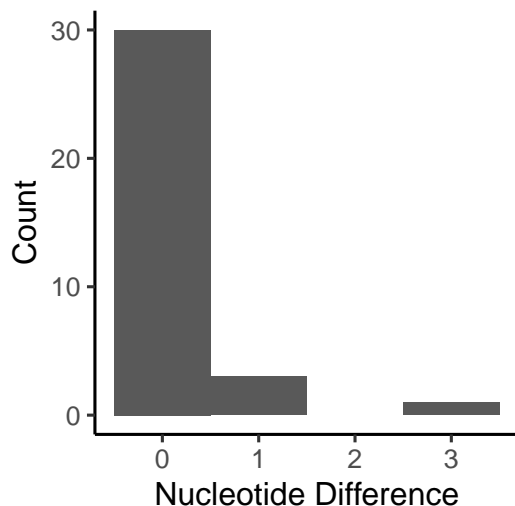
### IGKV4-1\*01

810 sequences assigned  
596 (73.6%) exact matches, in which:  
452 unique CDR3  
5 unique J



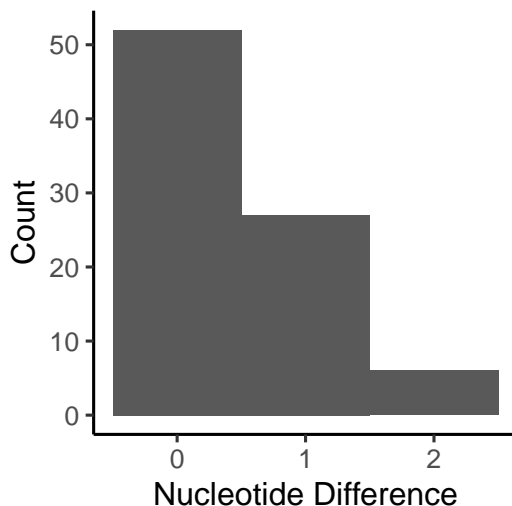
### IGKV5-2\*01

34 sequences assigned  
30 (88.2%) exact matches, in which:  
28 unique CDR3  
5 unique J



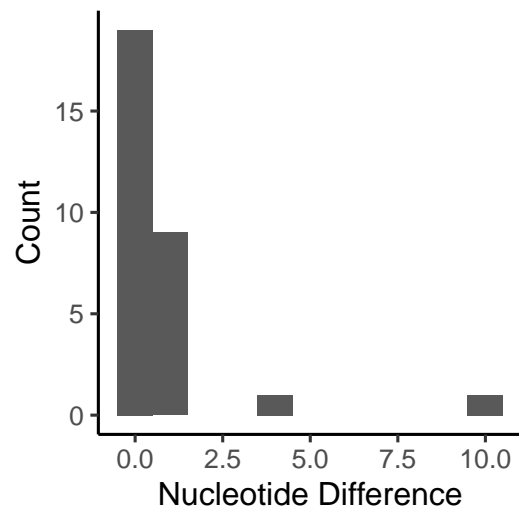
### IGKV1D-8\*01

85 sequences assigned  
52 (61.2%) exact matches, in which:  
41 unique CDR3  
5 unique J



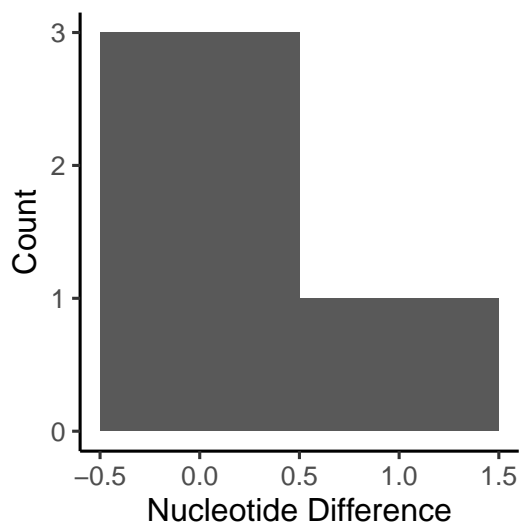
### IGKV3D-15\*01

30 sequences assigned  
19 (63.3%) exact matches, in which:  
18 unique CDR3  
5 unique J



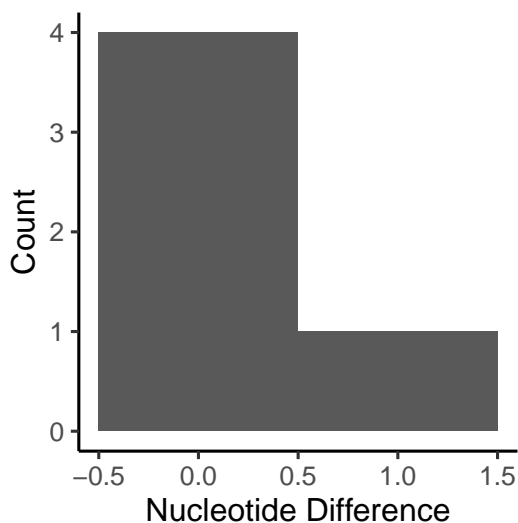
### IGKV7-3\*01

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



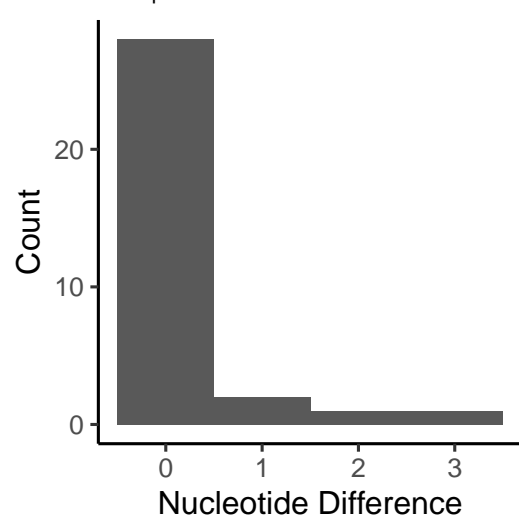
### IGKV3D-11\*01

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



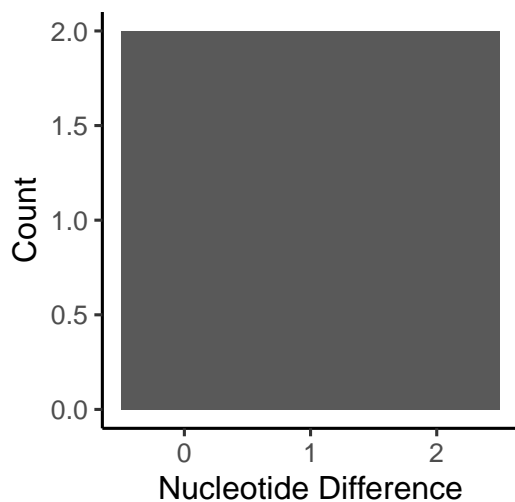
### IGKV1D-16\*01

32 sequences assigned  
28 (87.5%) exact matches, in which:  
25 unique CDR3  
5 unique J



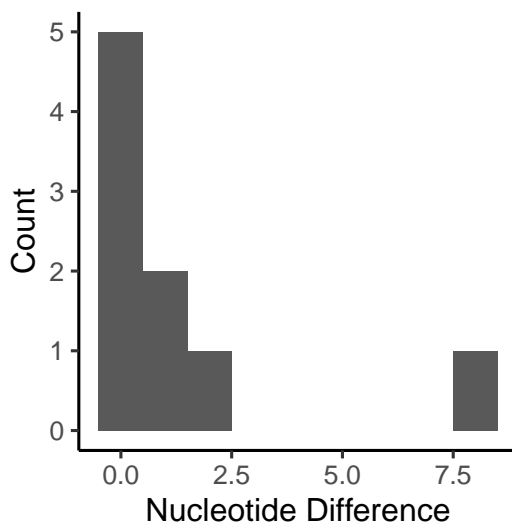
### IGKV3D-7\*01

6 sequences assigned  
2 (33.3%) exact matches, in which:  
2 unique CDR3  
2 unique J



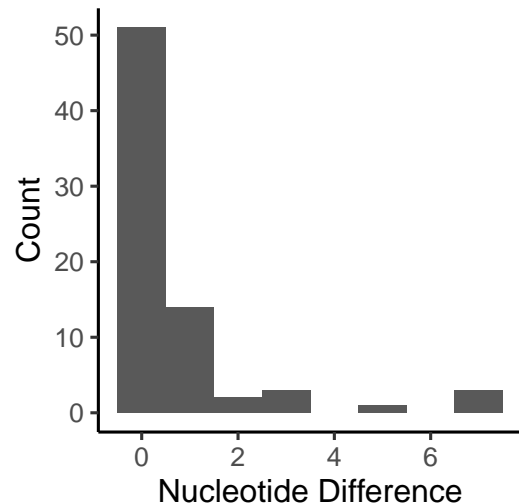
### IGKV3D-11\*02

9 sequences assigned  
5 (55.6%) exact matches, in which:  
5 unique CDR3  
3 unique J



### IGKV3D-20\*01

74 sequences assigned  
51 (68.9%) exact matches, in which:  
45 unique CDR3  
5 unique J



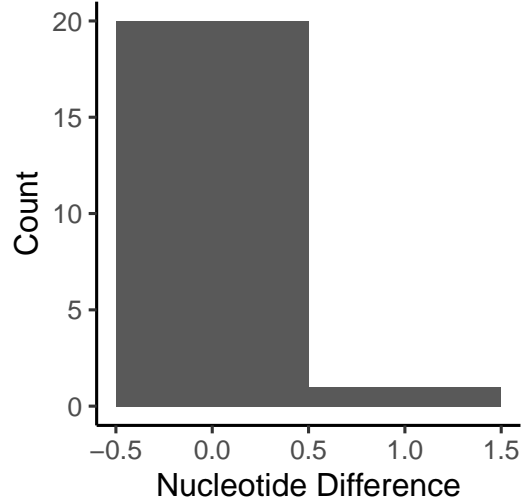
### IGKV2D-24\*01

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



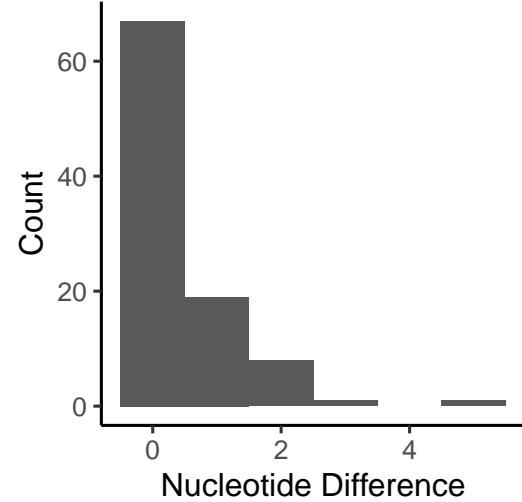
### IGKV2D-30\*01

21 sequences assigned  
20 (95.2%) exact matches, in which:  
20 unique CDR3  
5 unique J



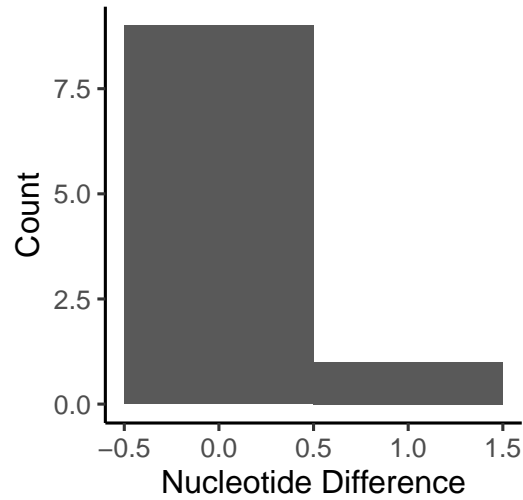
### IGKV1E-12\*01

96 sequences assigned  
67 (69.8%) exact matches, in which:  
50 unique CDR3  
5 unique J



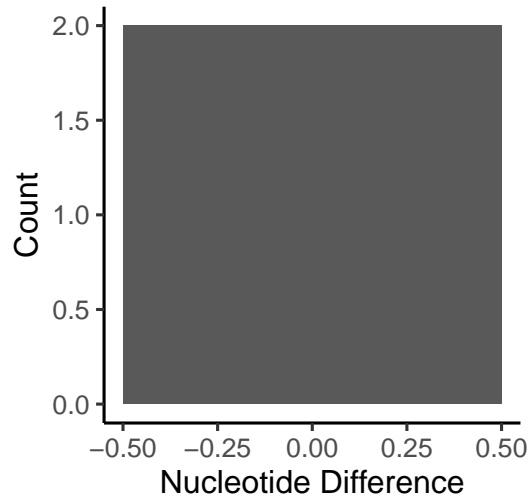
### IGKV2D-26\*03

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



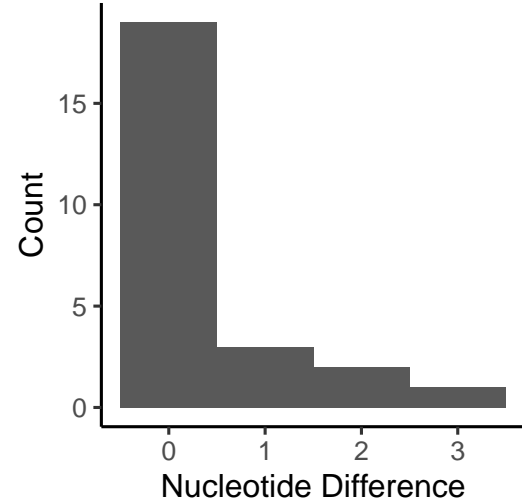
### IGKV6D-41\*01

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



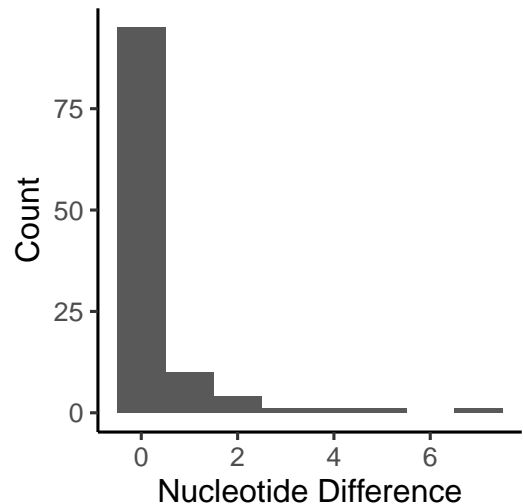
### IGKV1E-12\*02

25 sequences assigned  
19 (76%) exact matches, in which:  
14 unique CDR3  
5 unique J



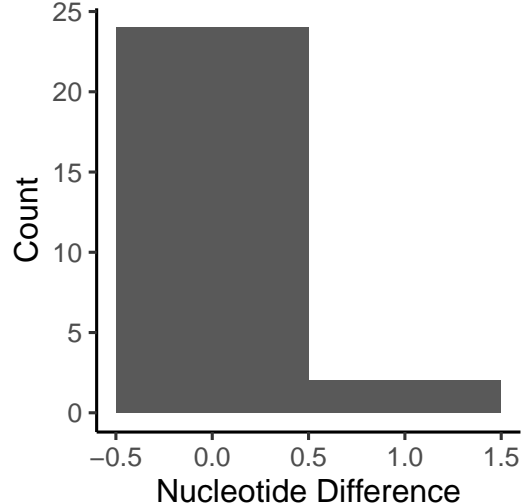
### IGKV2D-29\*01

113 sequences assigned  
95 (84.1%) exact matches, in which:  
87 unique CDR3  
5 unique J



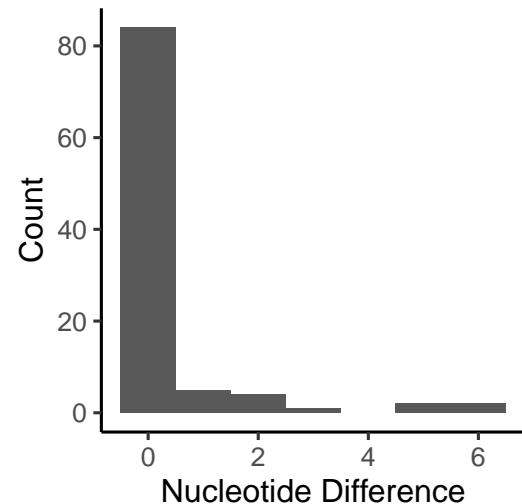
### IGKV1D-43\*01

26 sequences assigned  
24 (92.3%) exact matches, in which:  
24 unique CDR3  
5 unique J



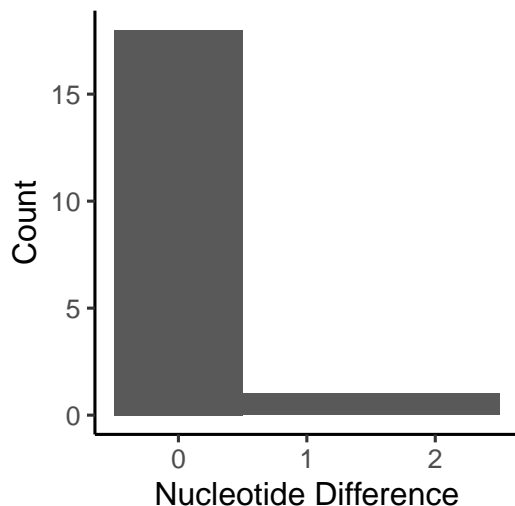
### IGKV1E-12\*03

98 sequences assigned  
84 (85.7%) exact matches, in which:  
73 unique CDR3  
5 unique J



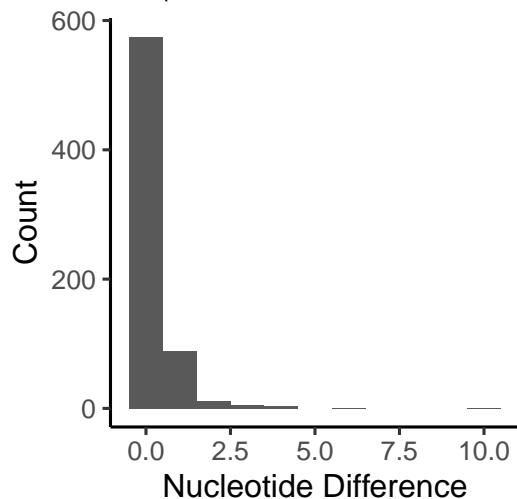
### IGKV1E-13\*03

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



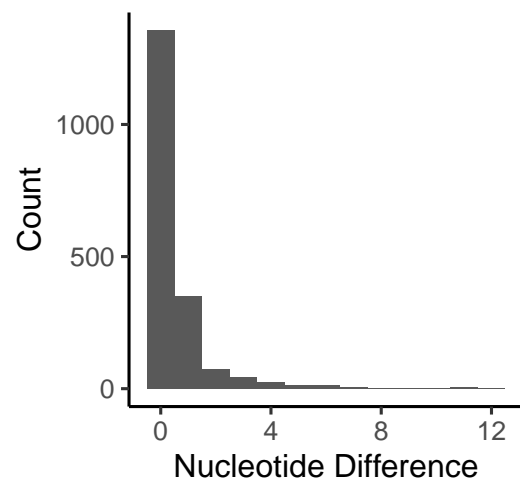
### IGKV2E-28\*01

687 sequences assigned  
575 (83.7%) exact matches, in which:  
442 unique CDR3  
5 unique J



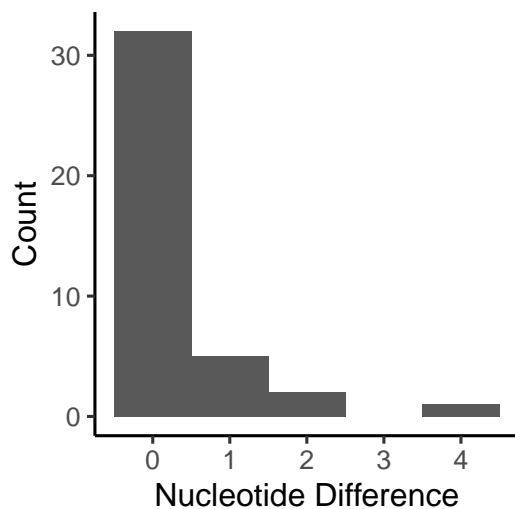
### IGKV1E-39\*01

1899 sequences assigned  
1356 (71.4%) exact matches, in which:  
1013 unique CDR3  
5 unique J



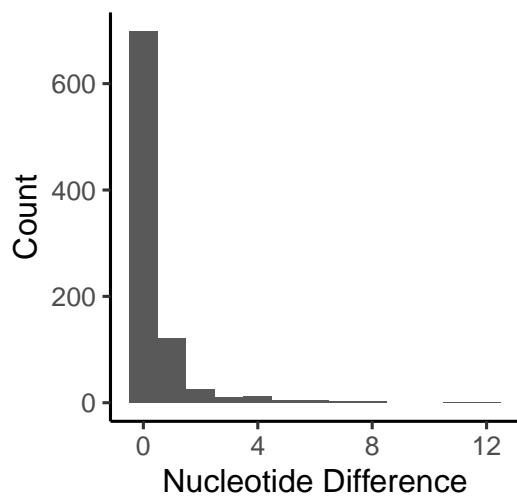
### IGKV6E-21\*01

40 sequences assigned  
32 (80%) exact matches, in which:  
29 unique CDR3  
5 unique J



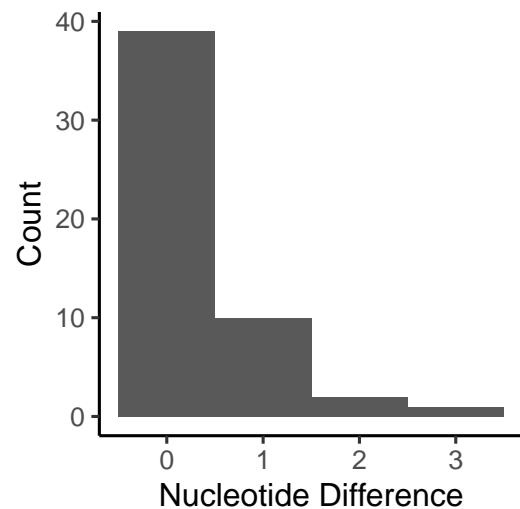
### IGKV1E-33\*01

884 sequences assigned  
699 (79.1%) exact matches, in which:  
563 unique CDR3  
5 unique J



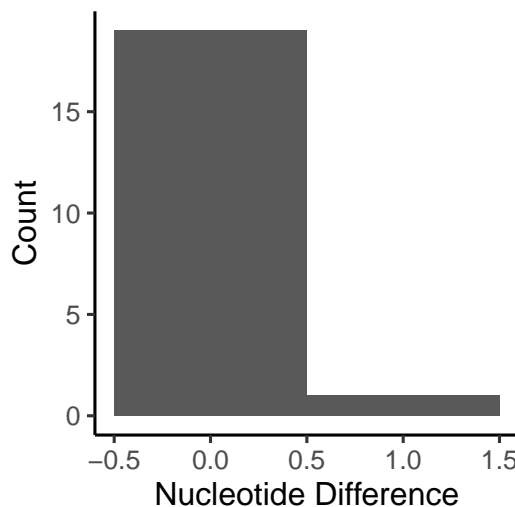
### IGKV2E-40\*01

52 sequences assigned  
39 (75%) exact matches, in which:  
35 unique CDR3  
5 unique J



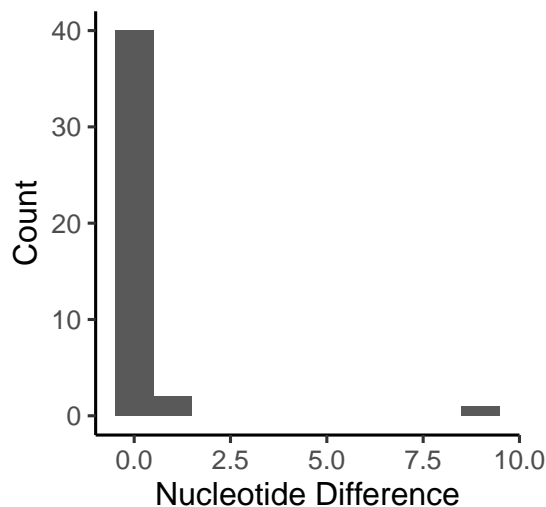
### IGKV6E-21\*03

20 sequences assigned  
19 (95%) exact matches, in which:  
16 unique CDR3  
5 unique J



### IGKV1E-37\*01

43 sequences assigned  
40 (93%) exact matches, in which:  
38 unique CDR3  
5 unique J





Warning – no inferred sequences found.