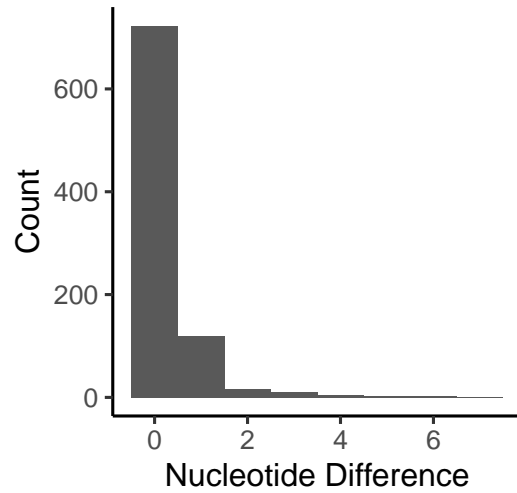


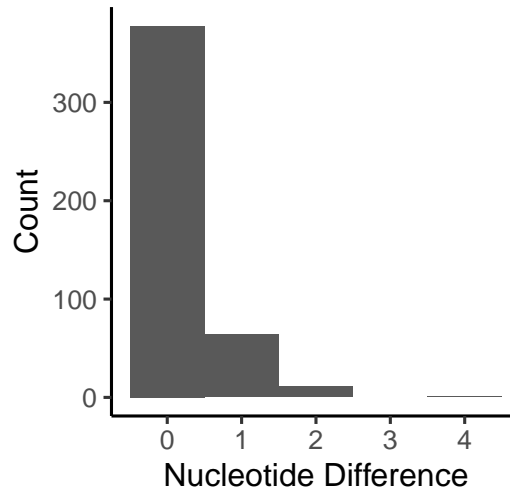
### IGKV1-5\*03

879 sequences assigned  
723 (82.3%) exact matches, in which:  
541 unique CDR3  
5 unique J



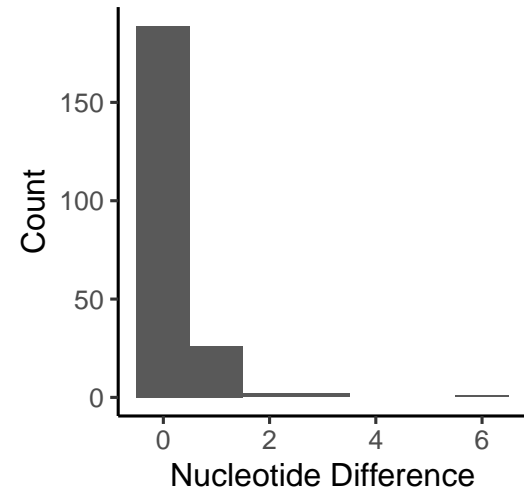
### IGKV1-9\*01

454 sequences assigned  
378 (83.3%) exact matches, in which:  
299 unique CDR3  
5 unique J



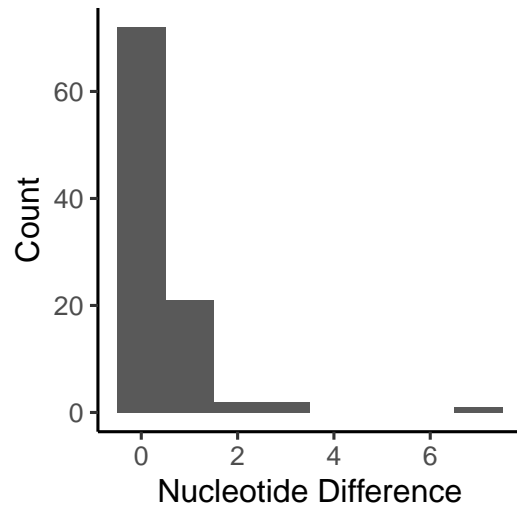
### IGKV1-27\*01

220 sequences assigned  
189 (85.9%) exact matches, in which:  
153 unique CDR3  
5 unique J



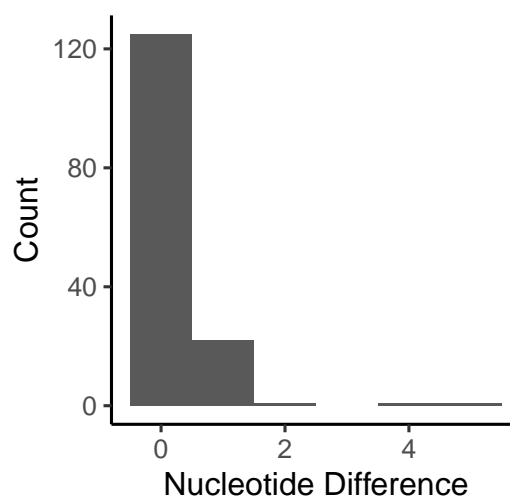
### IGKV1-6\*01

98 sequences assigned  
72 (73.5%) exact matches, in which:  
49 unique CDR3  
5 unique J



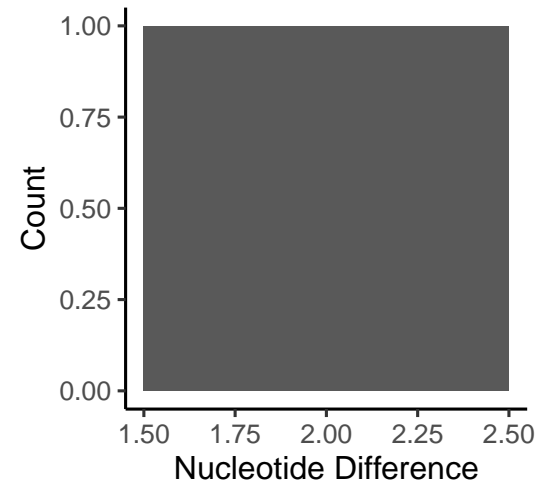
### IGKV1-16\*02

150 sequences assigned  
125 (83.3%) exact matches, in which:  
87 unique CDR3  
5 unique J



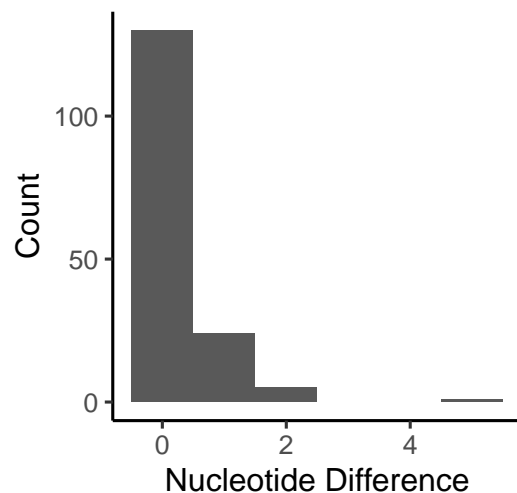
### IGKV1/OR2-1\*01

1 sequences assigned  
No exact matches.



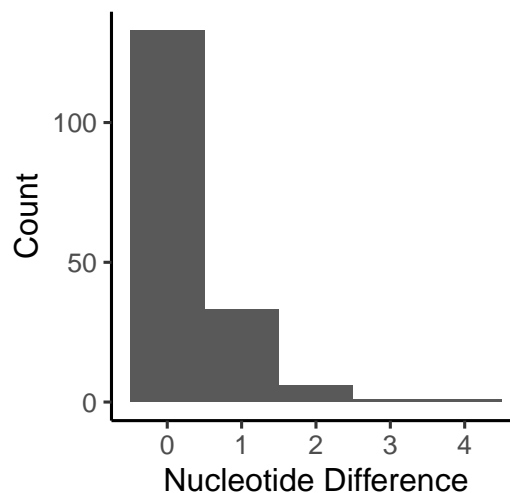
### IGKV1-8\*01

160 sequences assigned  
130 (81.2%) exact matches, in which:  
92 unique CDR3  
5 unique J



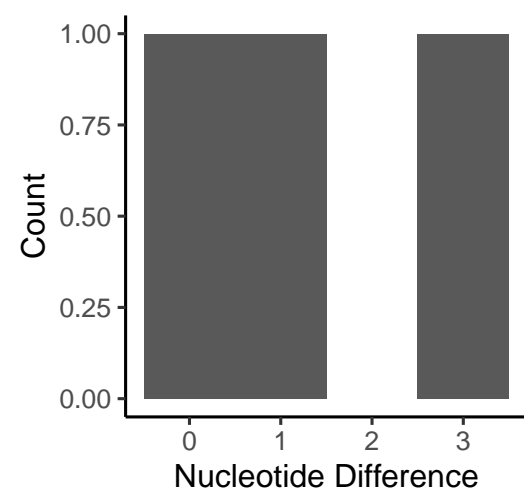
### IGKV1-17\*01

174 sequences assigned  
133 (76.4%) exact matches, in which:  
103 unique CDR3  
5 unique J



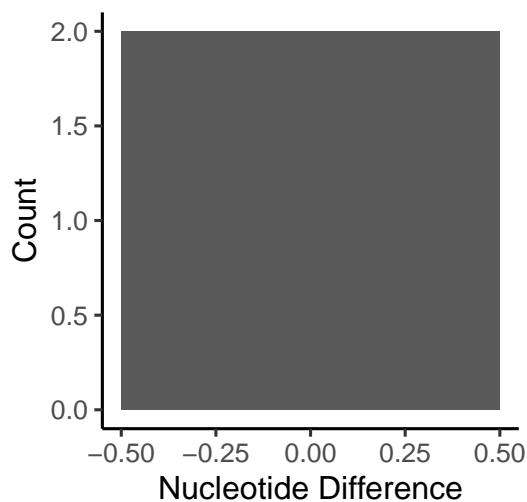
### IGKV2/OR22-4\*01

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



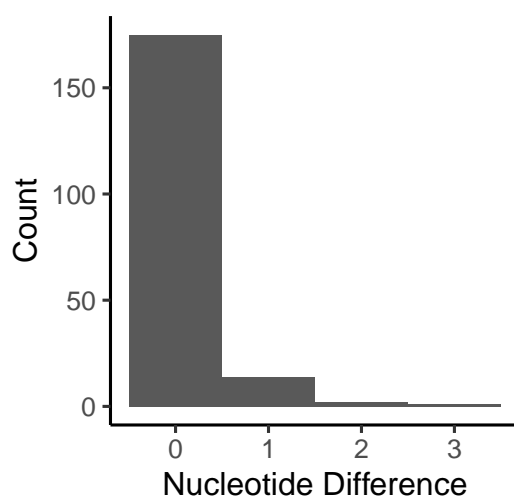
### IGKV2-18\*01

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



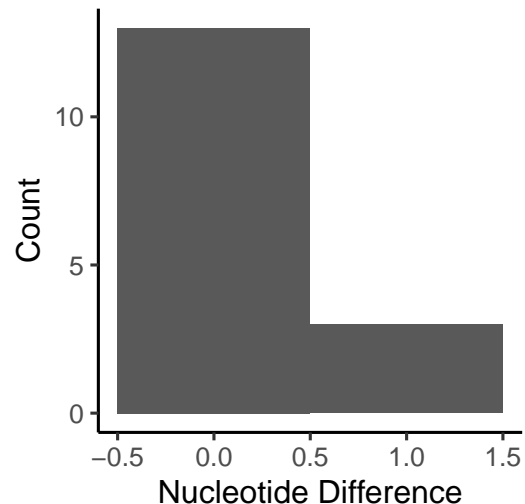
### IGKV2-30\*01

192 sequences assigned  
175 (91.1%) exact matches, in which:  
166 unique CDR3  
5 unique J



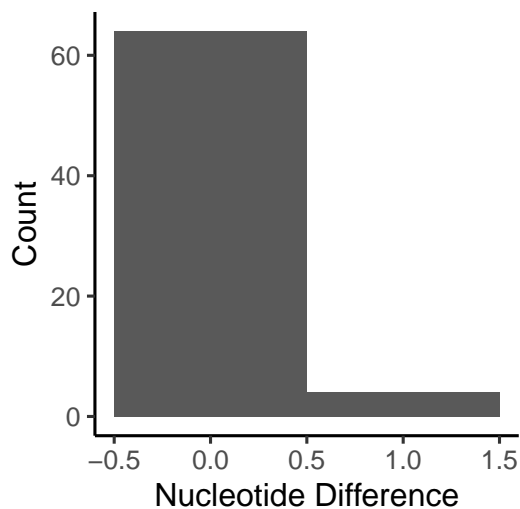
### IGKV3-7\*04

16 sequences assigned  
13 (81.2%) exact matches, in which:  
12 unique CDR3  
4 unique J



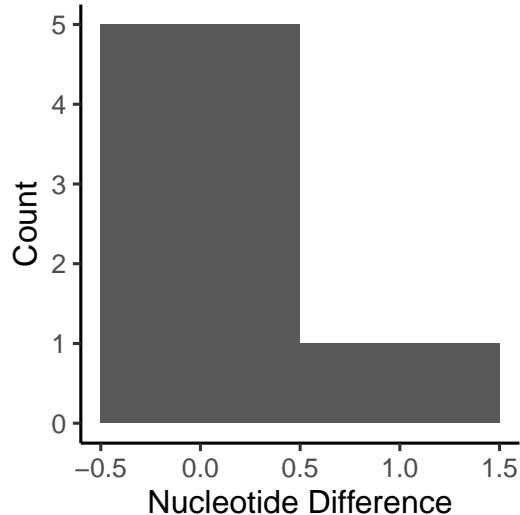
### IGKV2-24\*01

68 sequences assigned  
64 (94.1%) exact matches, in which:  
55 unique CDR3  
5 unique J



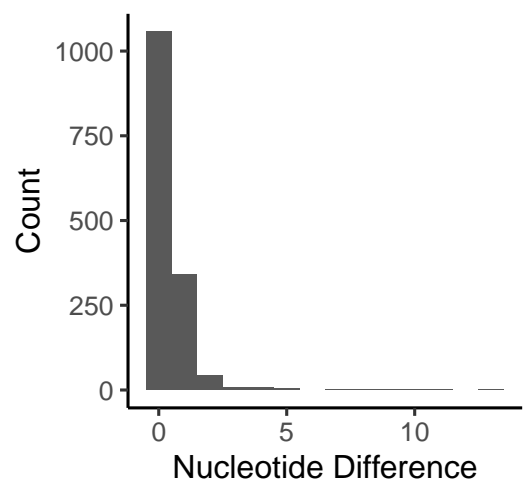
### IGKV1/OR2-108\*01

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



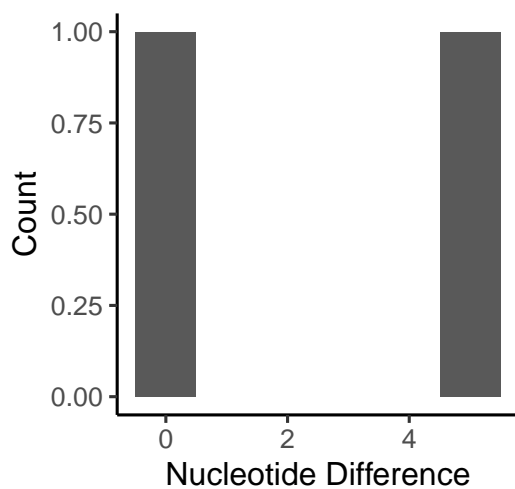
### IGKV3-11\*01

1466 sequences assigned  
1057 (72.1%) exact matches, in which:  
797 unique CDR3  
5 unique J



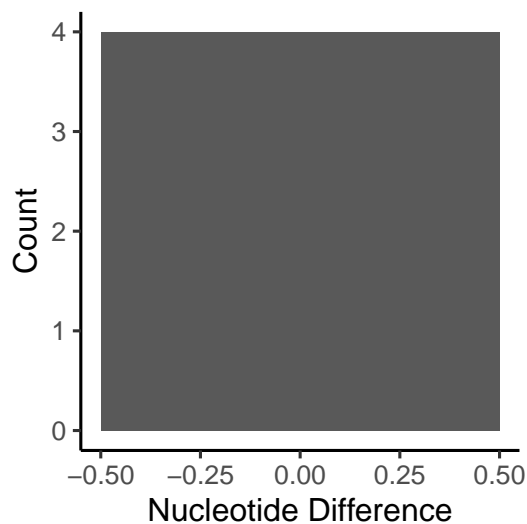
### IGKV2-29\*03

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



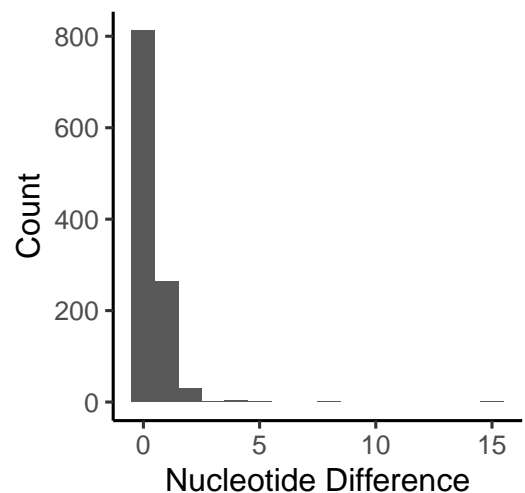
### IGKV3/OR2-268\*01

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



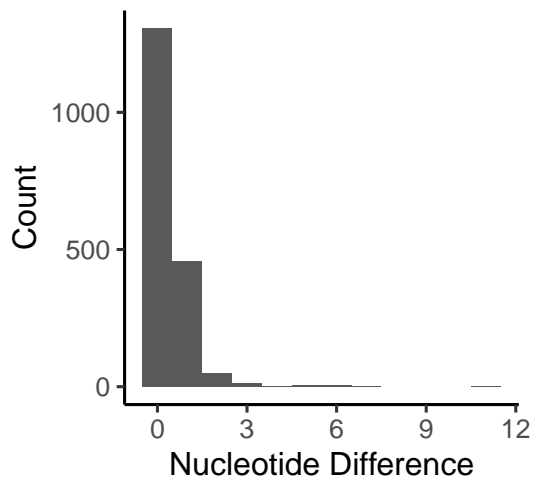
### IGKV3-15\*01

1115 sequences assigned  
813 (72.9%) exact matches, in which:  
635 unique CDR3  
5 unique J



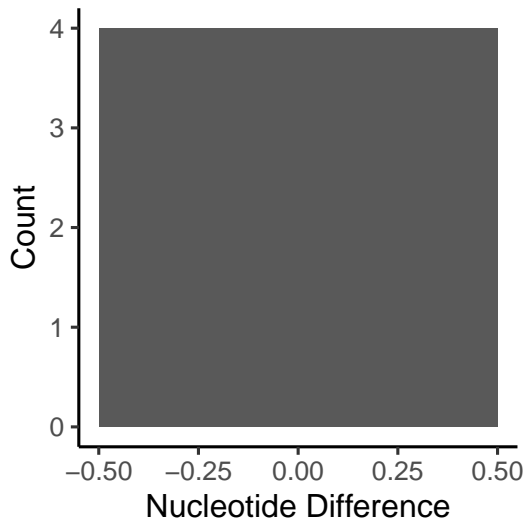
### IGKV3–20\*01

1843 sequences assigned  
1306 (70.9%) exact matches, in which:  
1007 unique CDR3  
5 unique J



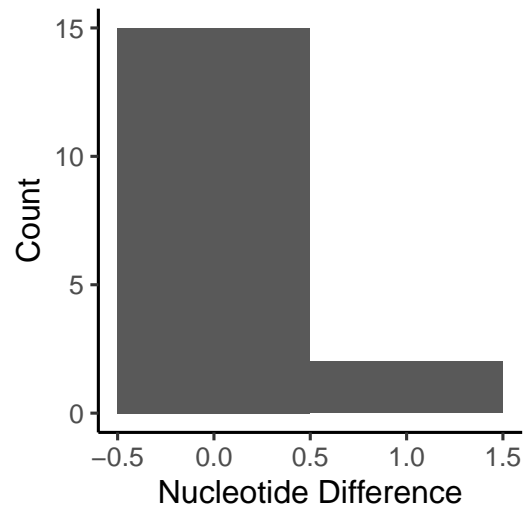
### IGKV7–3\*01

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



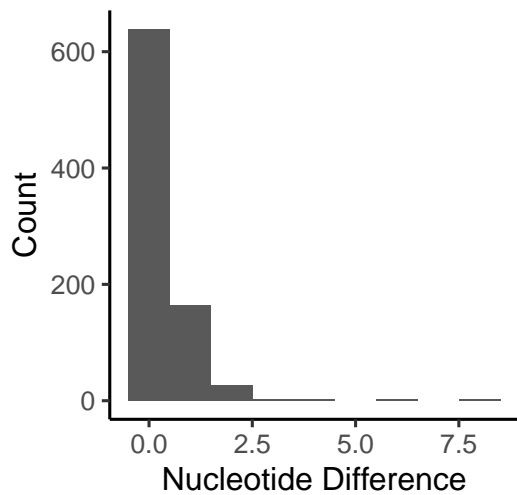
### IGKV3D–11\*01

17 sequences assigned  
15 (88.2%) exact matches, in which:  
14 unique CDR3  
4 unique J



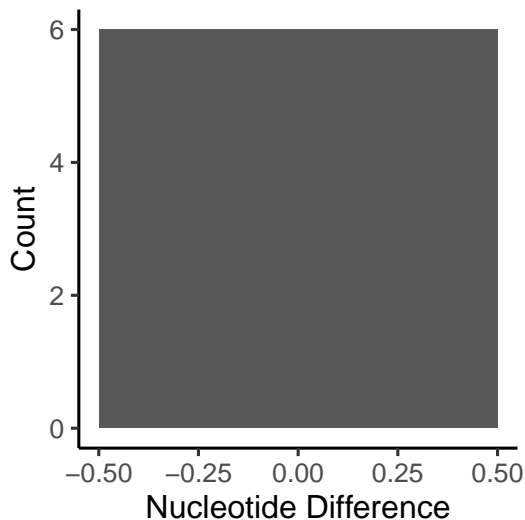
### IGKV4–1\*01

840 sequences assigned  
639 (76.1%) exact matches, in which:  
469 unique CDR3  
5 unique J



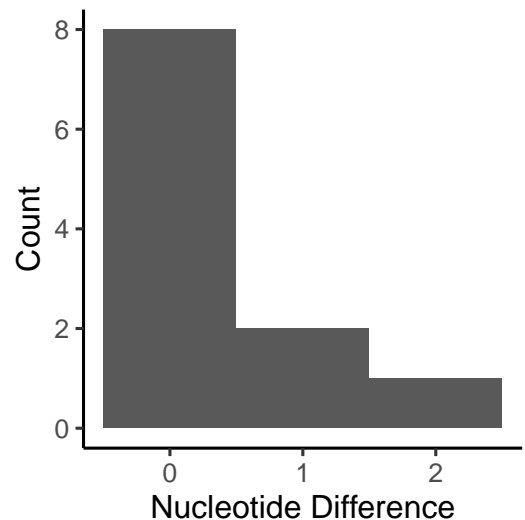
### IGKV3D–7\*01

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



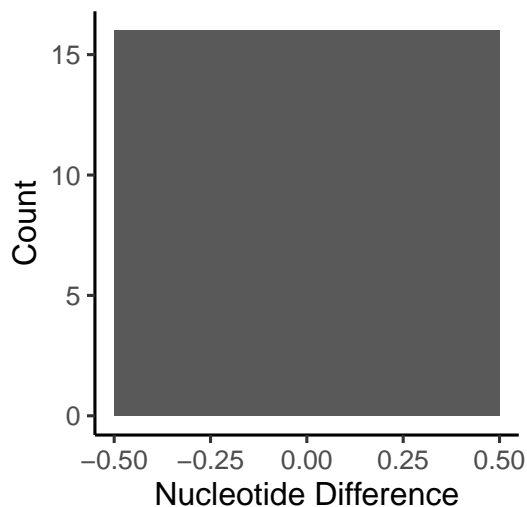
### IGKV3D–11\*02

11 sequences assigned  
8 (72.7%) exact matches, in which:  
8 unique CDR3  
4 unique J



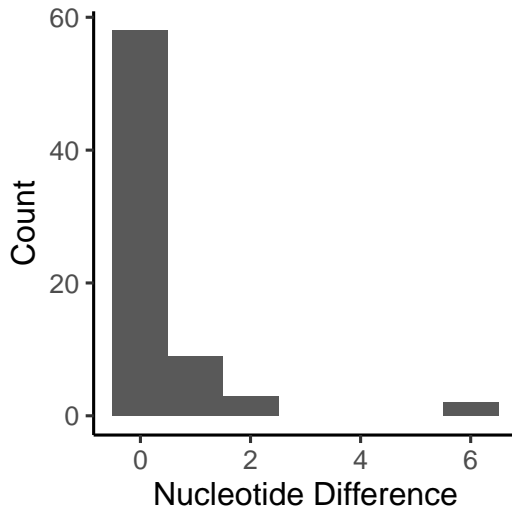
### IGKV5–2\*01

16 sequences assigned  
16 (100%) exact matches, in which:  
16 unique CDR3  
4 unique J



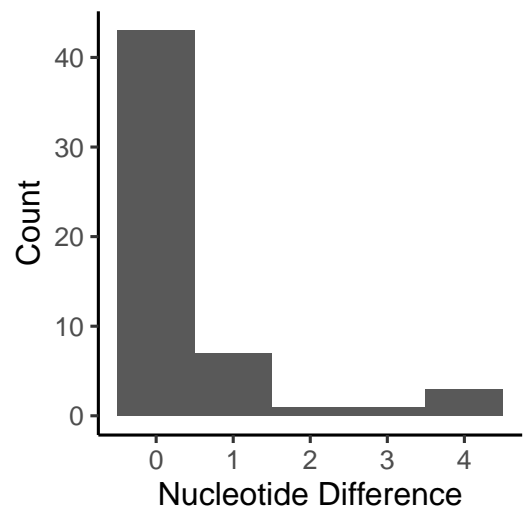
### IGKV1D–8\*01

72 sequences assigned  
58 (80.6%) exact matches, in which:  
43 unique CDR3  
5 unique J



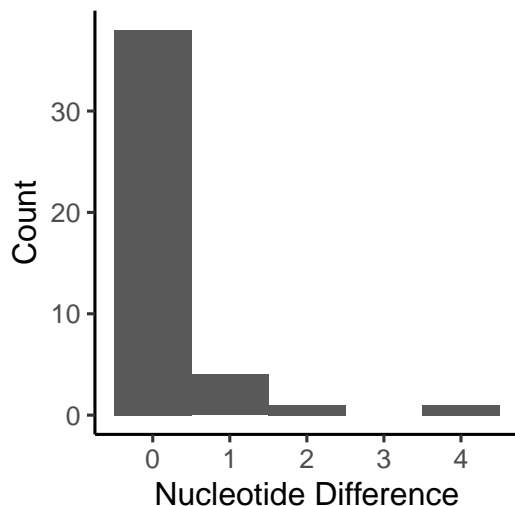
### IGKV3D–15\*01

55 sequences assigned  
43 (78.2%) exact matches, in which:  
41 unique CDR3  
5 unique J



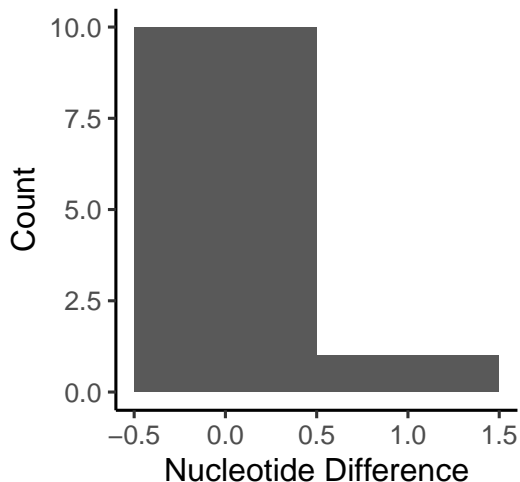
### IGKV1D-16\*01

44 sequences assigned  
38 (86.4%) exact matches, in which:  
28 unique CDR3  
5 unique J



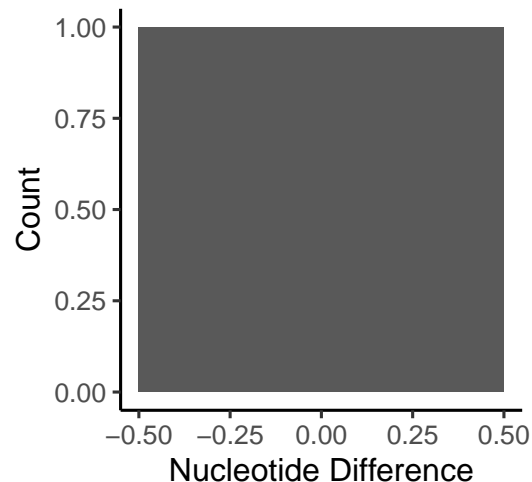
### IGKV2D-26\*03

11 sequences assigned  
10 (90.9%) exact matches, in which:  
10 unique CDR3  
4 unique J



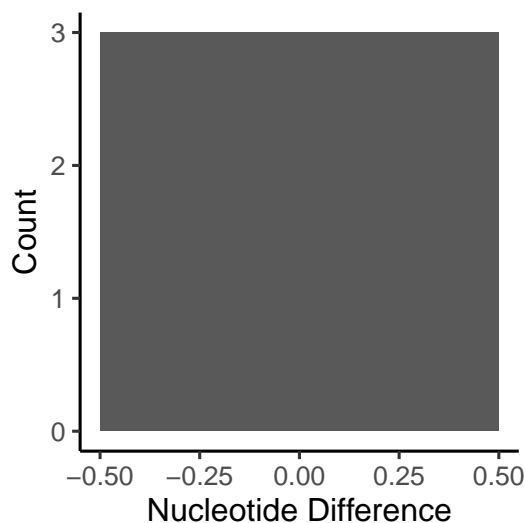
### IGKV6D-41\*01

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



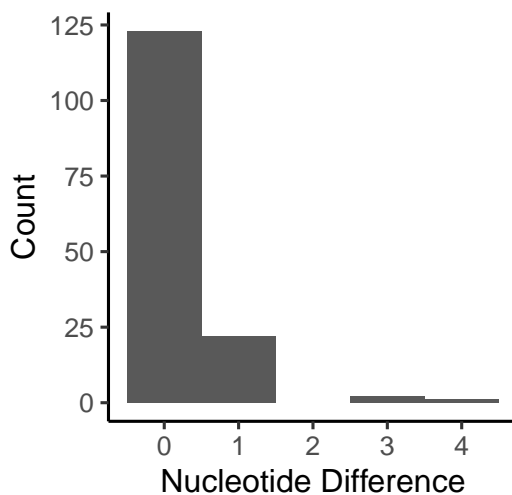
### IGKV1D-17\*01

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



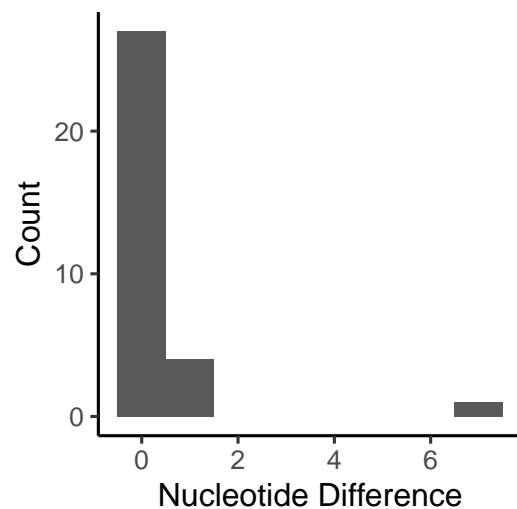
### IGKV2D-29\*01

148 sequences assigned  
123 (83.1%) exact matches, in which:  
109 unique CDR3  
5 unique J



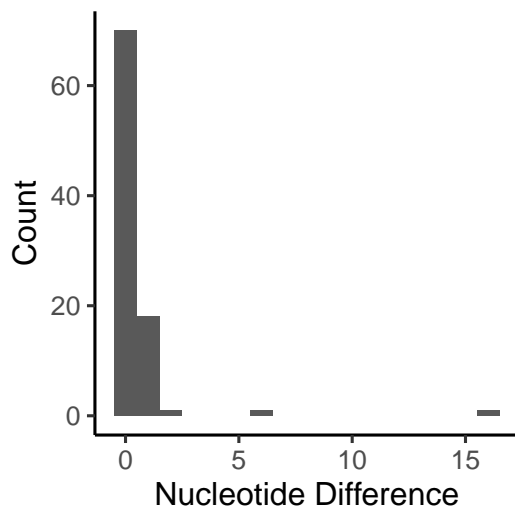
### IGKV1D-43\*01

32 sequences assigned  
27 (84.4%) exact matches, in which:  
26 unique CDR3  
5 unique J



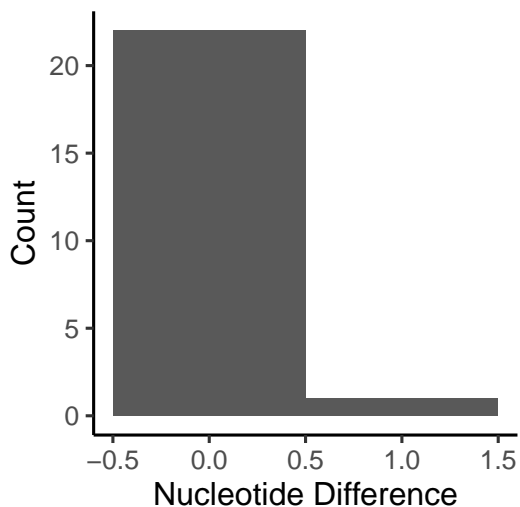
### IGKV3D-20\*01

91 sequences assigned  
70 (76.9%) exact matches, in which:  
61 unique CDR3  
5 unique J



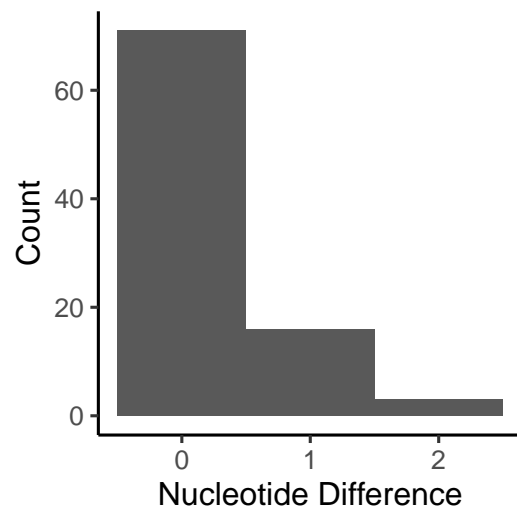
### IGKV2D-30\*01

23 sequences assigned  
22 (95.7%) exact matches, in which:  
19 unique CDR3  
5 unique J



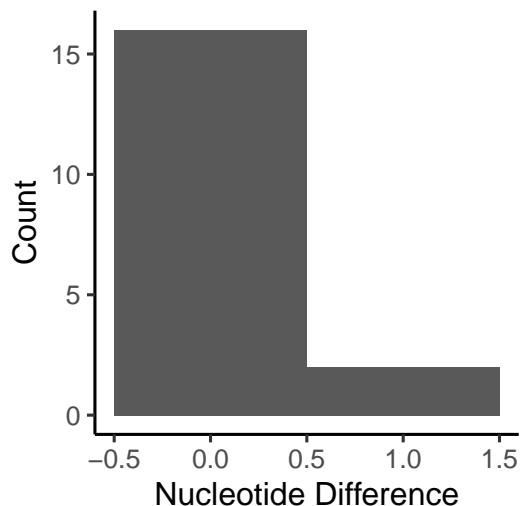
### IGKV1E-12\*01

90 sequences assigned  
71 (78.9%) exact matches, in which:  
50 unique CDR3  
5 unique J



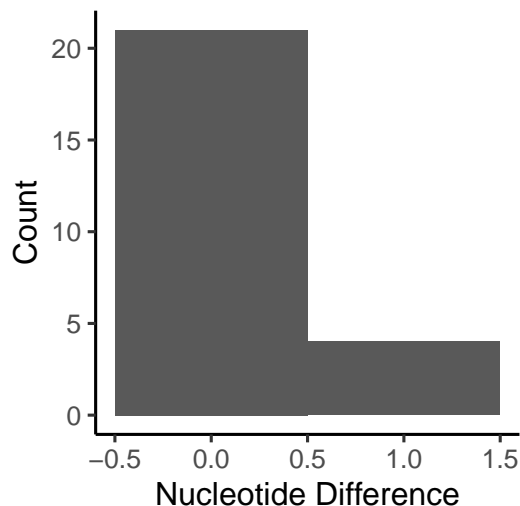
### IGKV1E-12\*02

18 sequences assigned  
16 (88.9%) exact matches, in which:  
11 unique CDR3  
5 unique J



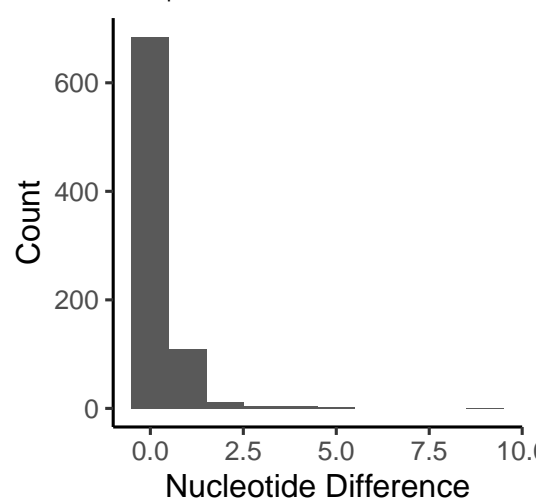
### IGKV6E-21\*01

25 sequences assigned  
21 (84%) exact matches, in which:  
19 unique CDR3  
5 unique J



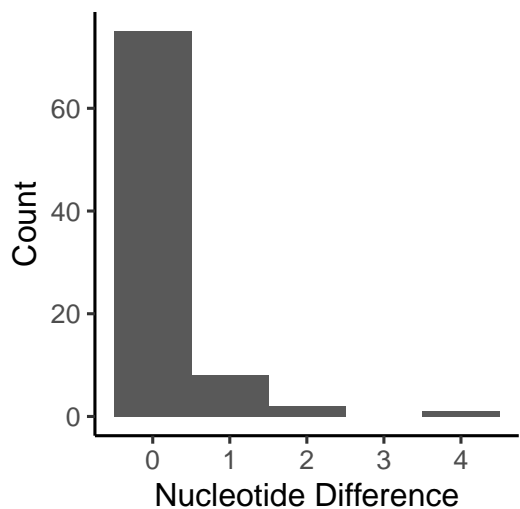
### IGKV1E-33\*01

818 sequences assigned  
685 (83.7%) exact matches, in which:  
529 unique CDR3  
5 unique J



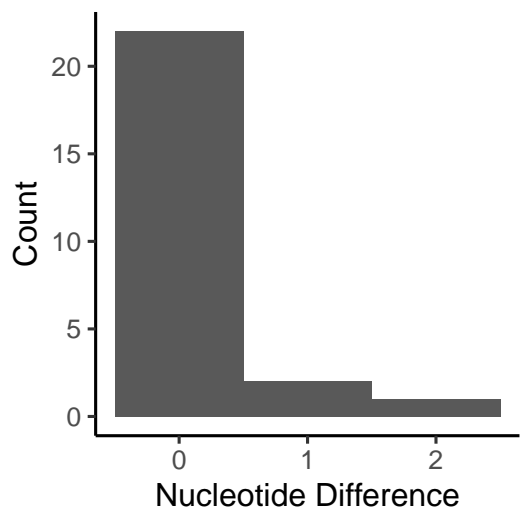
### IGKV1E-12\*03

86 sequences assigned  
75 (87.2%) exact matches, in which:  
60 unique CDR3  
5 unique J



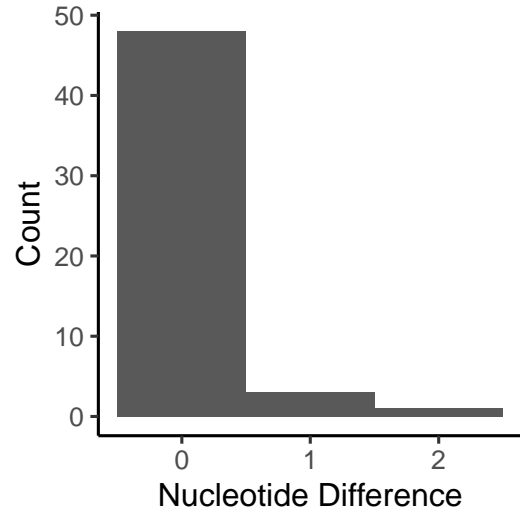
### IGKV6E-21\*03

25 sequences assigned  
22 (88%) exact matches, in which:  
20 unique CDR3  
5 unique J



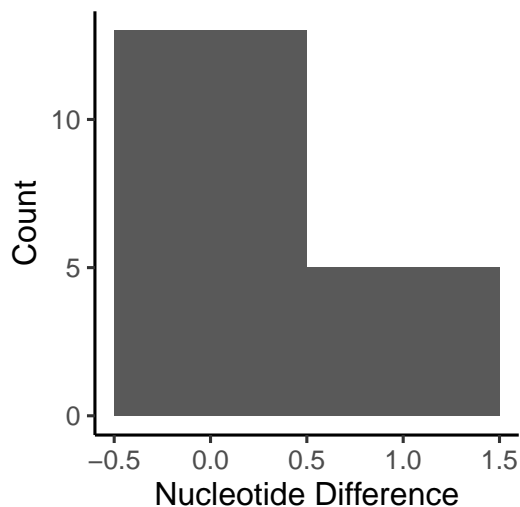
### IGKV1E-37\*01

52 sequences assigned  
48 (92.3%) exact matches, in which:  
46 unique CDR3  
5 unique J



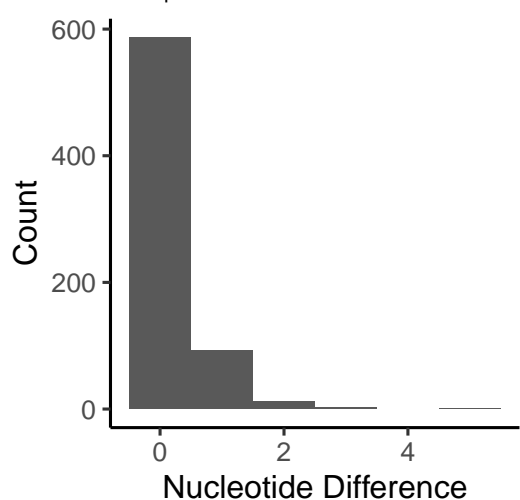
### IGKV1E-13\*03

18 sequences assigned  
13 (72.2%) exact matches, in which:  
13 unique CDR3  
5 unique J



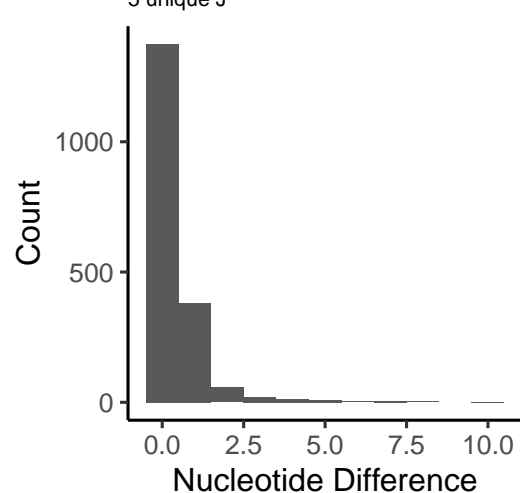
### IGKV2E-28\*01

694 sequences assigned  
587 (84.6%) exact matches, in which:  
464 unique CDR3  
5 unique J



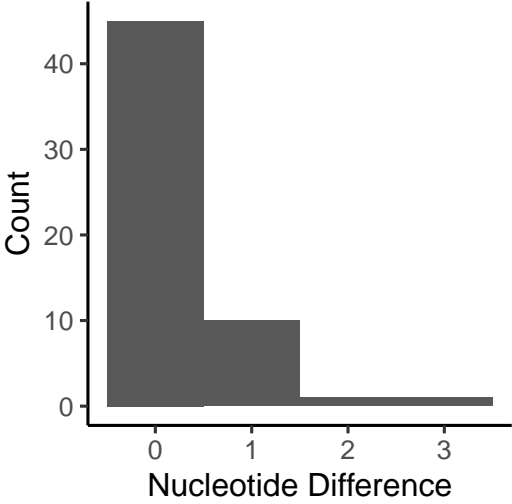
### IGKV1E-39\*01

1869 sequences assigned  
1375 (73.6%) exact matches, in which:  
975 unique CDR3  
5 unique J



# IGKV2E-40\*01

57 sequences assigned  
45 (78.9%) exact matches, in which:  
40 unique CDR3  
5 unique J





Warning – no inferred sequences found.