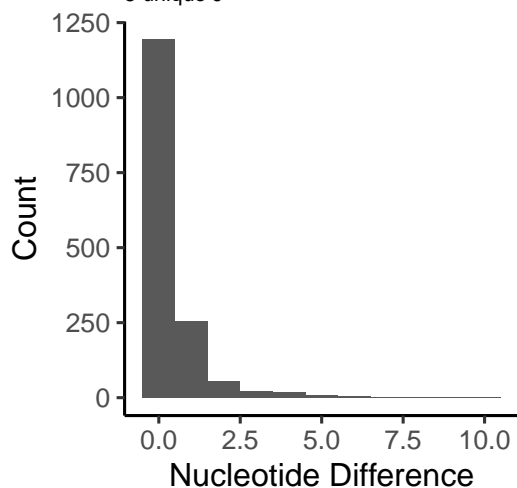


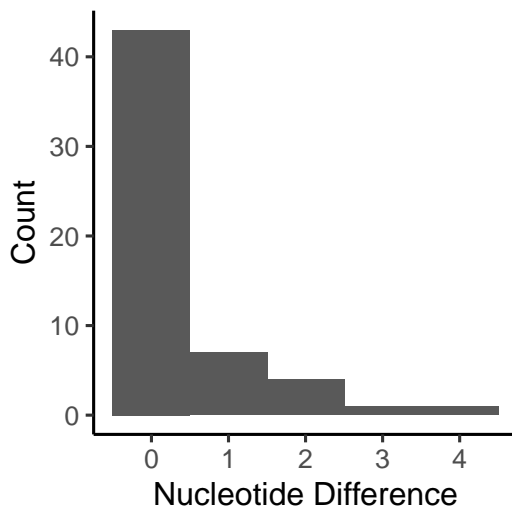
### IGKV1-5\*01

1562 sequences assigned  
1194 (76.4%) exact matches, in which:  
938 unique CDR3  
5 unique J



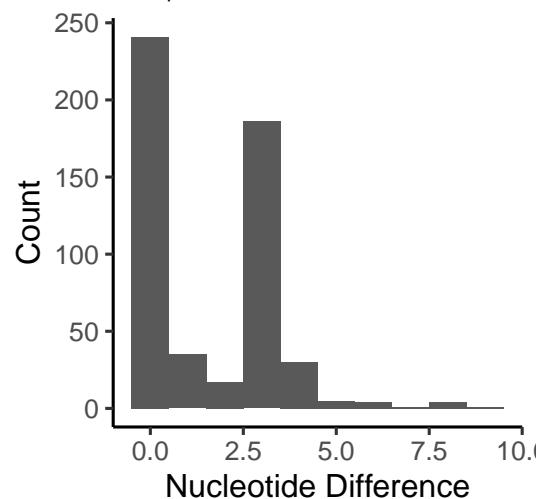
### IGKV1-6\*01\_G9A

56 sequences assigned  
43 (76.8%) exact matches, in which:  
40 unique CDR3  
5 unique J



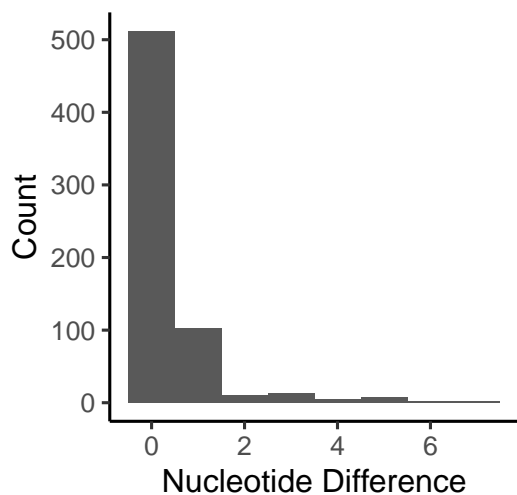
### IGKV1-9\*01

524 sequences assigned  
241 (46%) exact matches, in which:  
192 unique CDR3  
5 unique J



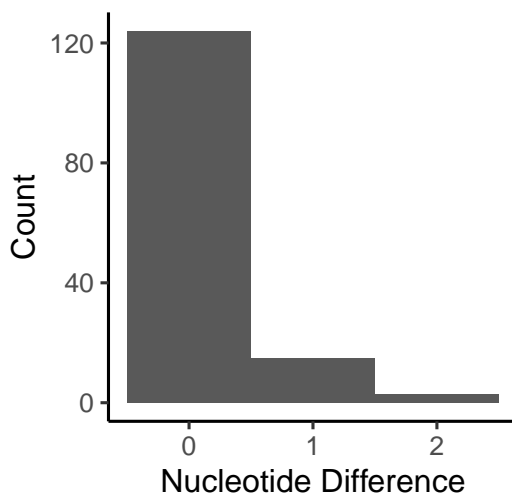
### IGKV1-5\*03

655 sequences assigned  
512 (78.2%) exact matches, in which:  
427 unique CDR3  
5 unique J



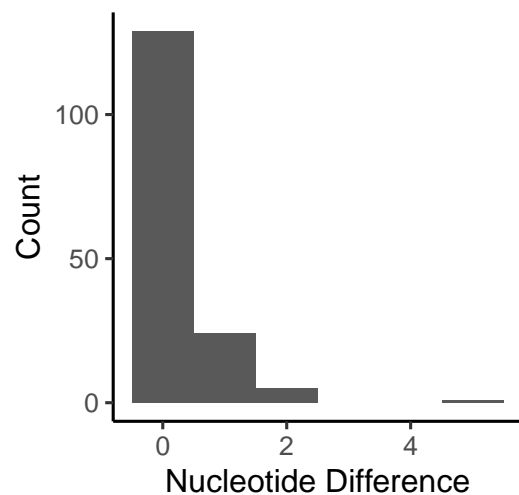
### IGKV1-8\*01

142 sequences assigned  
124 (87.3%) exact matches, in which:  
111 unique CDR3  
5 unique J



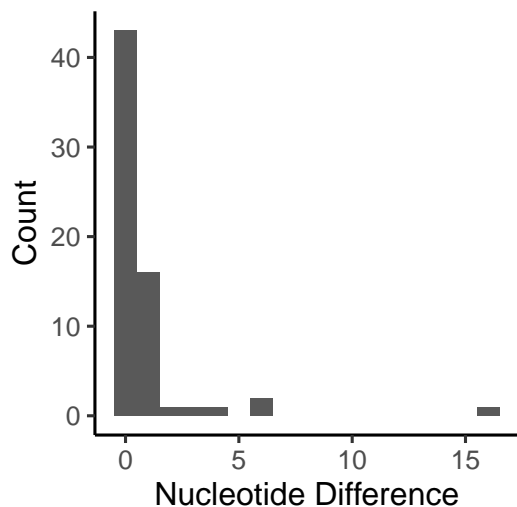
### IGKV1-16\*02

159 sequences assigned  
129 (81.1%) exact matches, in which:  
91 unique CDR3  
5 unique J



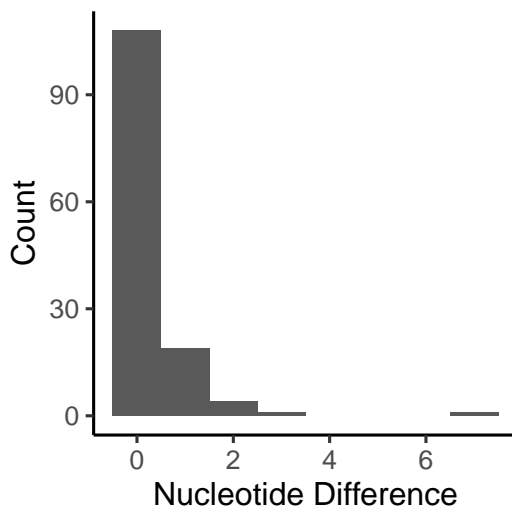
### IGKV1-6\*01

65 sequences assigned  
43 (66.2%) exact matches, in which:  
40 unique CDR3  
5 unique J



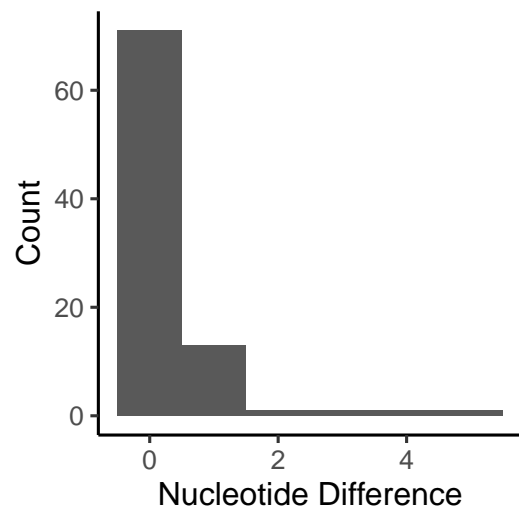
### IGKV1-8\*01\_T31C

133 sequences assigned  
108 (81.2%) exact matches, in which:  
93 unique CDR3  
5 unique J



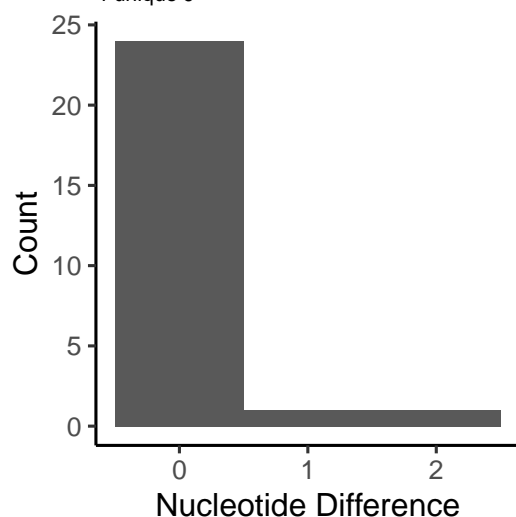
### IGKV1-17\*01

88 sequences assigned  
71 (80.7%) exact matches, in which:  
57 unique CDR3  
5 unique J



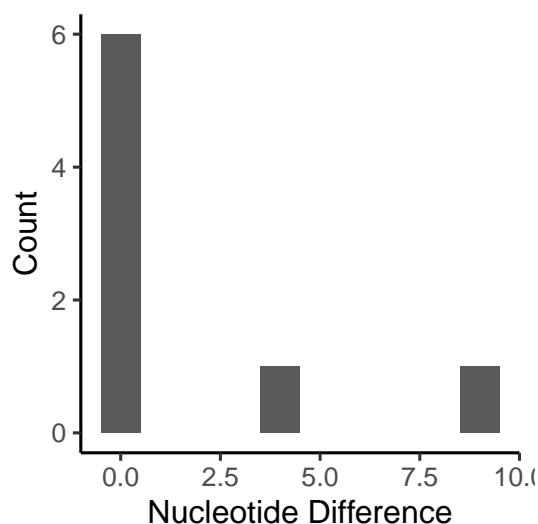
### IGKV1-17\*03

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



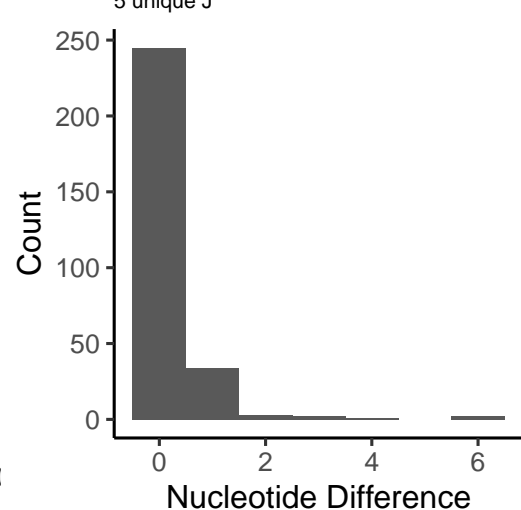
### IGKV2/OR22-4\*01

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



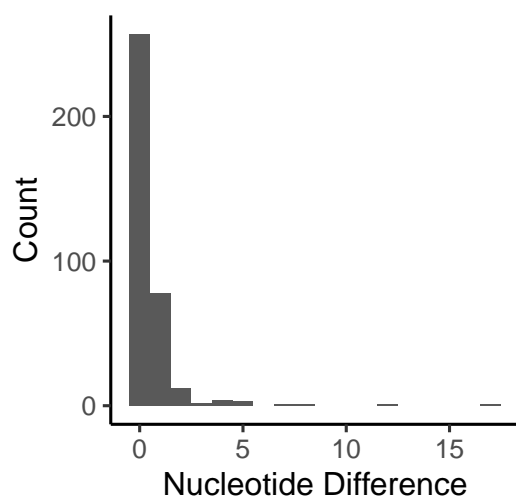
### IGKV2-30\*01

287 sequences assigned  
245 (85.4%) exact matches, in which:  
211 unique CDR3  
5 unique J



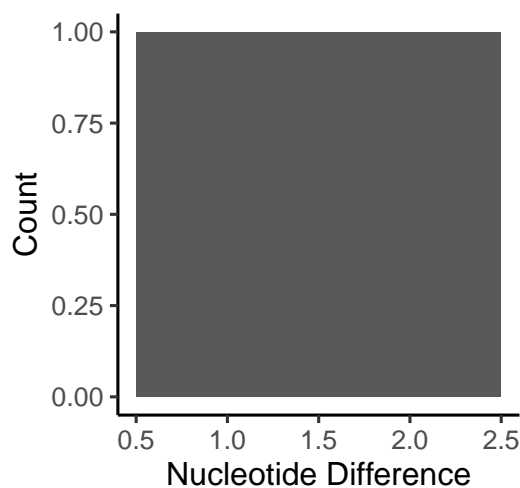
### IGKV1-27\*01

362 sequences assigned  
257 (71%) exact matches, in which:  
202 unique CDR3  
5 unique J



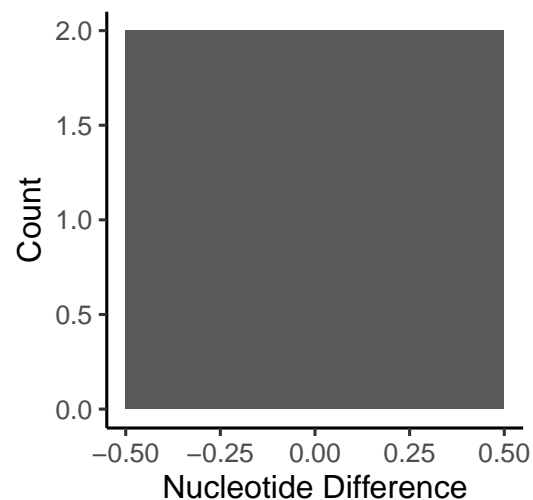
### IGKV2-18\*01

2 sequences assigned  
No exact matches.



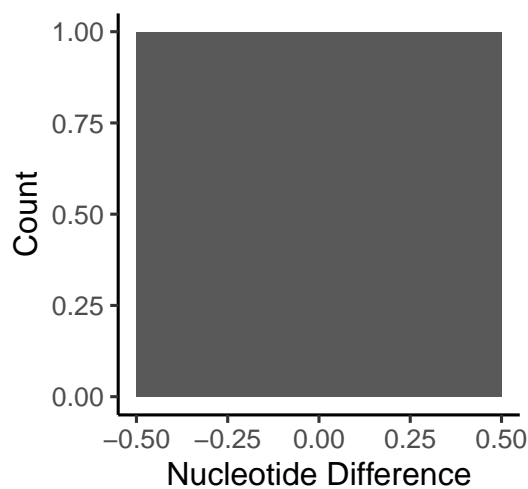
### IGKV1/OR2-108\*01

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



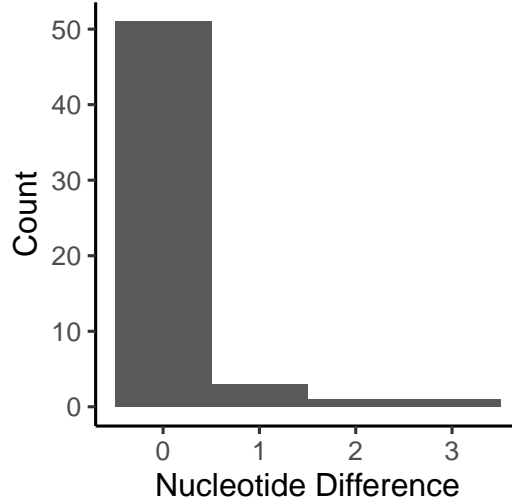
### IGKV1/OR2-1\*01

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



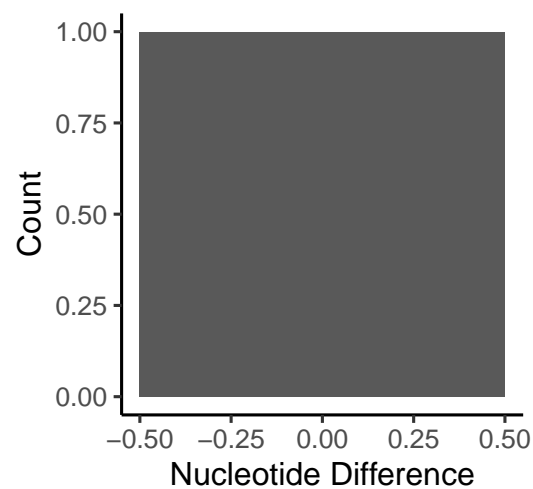
### IGKV2-24\*01

56 sequences assigned  
51 (91.1%) exact matches, in which:  
48 unique CDR3  
5 unique J



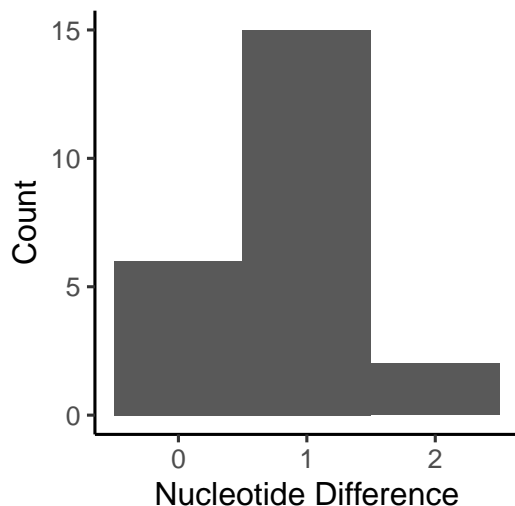
### IGKV3/OR2-268\*01

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



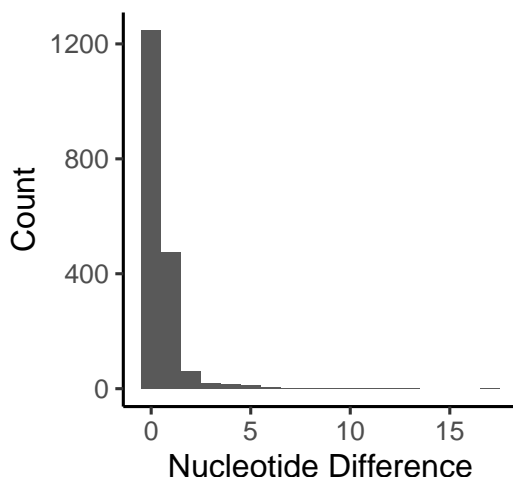
### IGKV3-7\*04

23 sequences assigned  
6 (26.1%) exact matches, in which:  
6 unique CDR3  
3 unique J



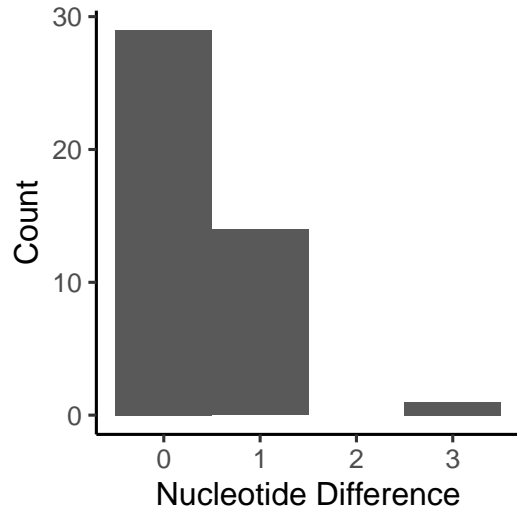
### IGKV3-20\*01

1847 sequences assigned  
1247 (67.5%) exact matches, in which:  
969 unique CDR3  
5 unique J



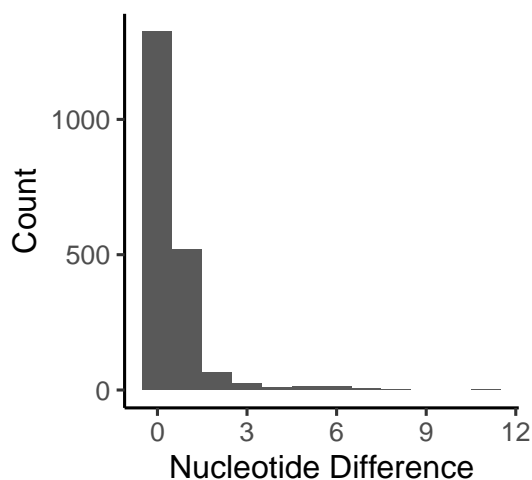
### IGKV5-2\*01

44 sequences assigned  
29 (65.9%) exact matches, in which:  
27 unique CDR3  
3 unique J



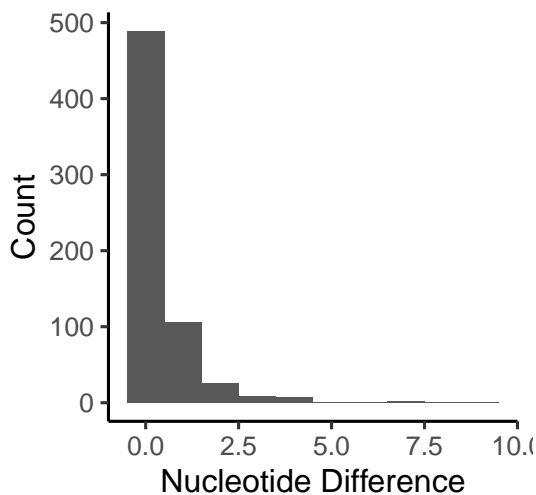
### IGKV3-11\*01

1978 sequences assigned  
1324 (66.9%) exact matches, in which:  
998 unique CDR3  
5 unique J



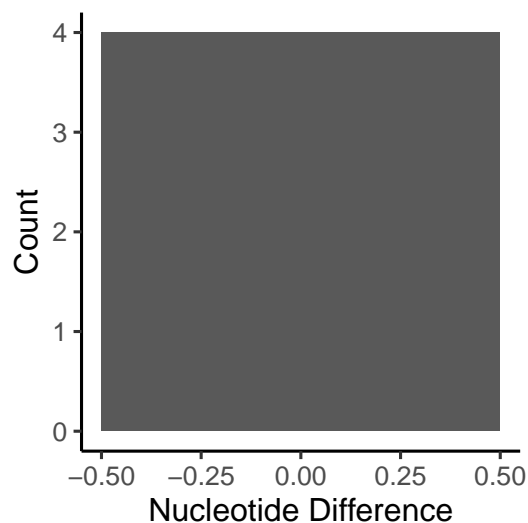
### IGKV4-1\*01

643 sequences assigned  
489 (76%) exact matches, in which:  
364 unique CDR3  
5 unique J



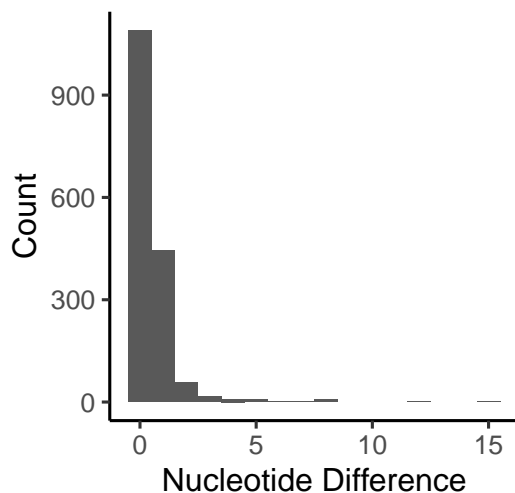
### IGKV7-3\*01

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



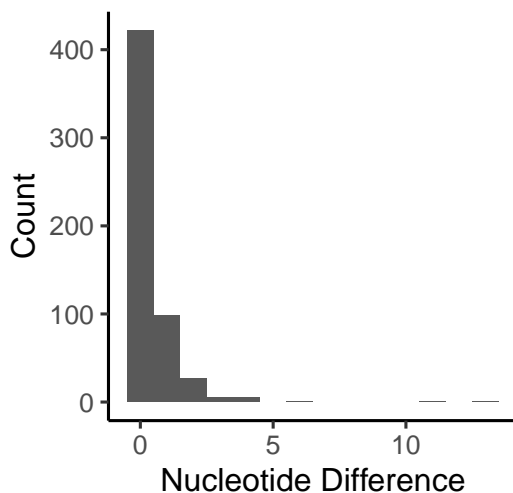
### IGKV3-15\*01

1635 sequences assigned  
1090 (66.7%) exact matches, in which:  
838 unique CDR3  
5 unique J



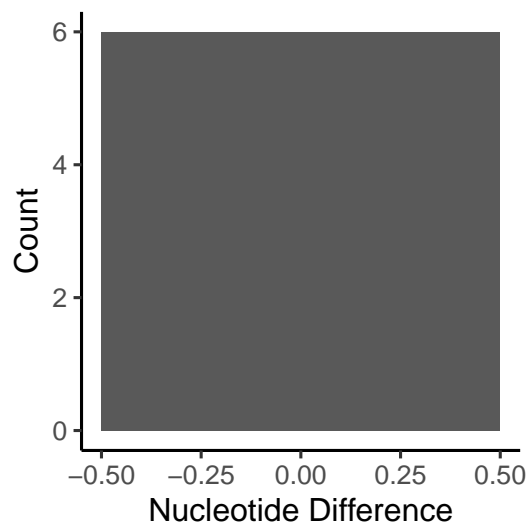
### IGKV4-1\*01\_A318G

560 sequences assigned  
422 (75.4%) exact matches, in which:  
321 unique CDR3  
5 unique J



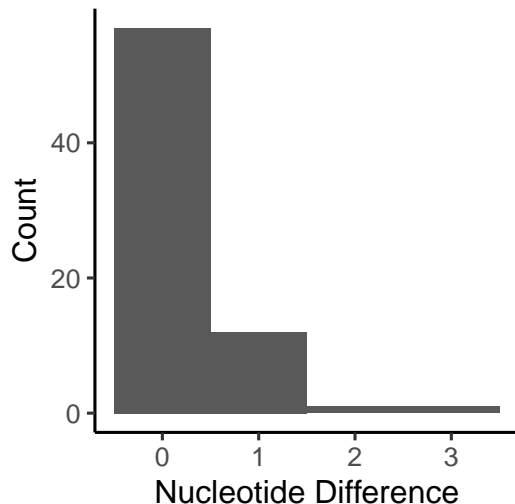
### IGKV3D-7\*01

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



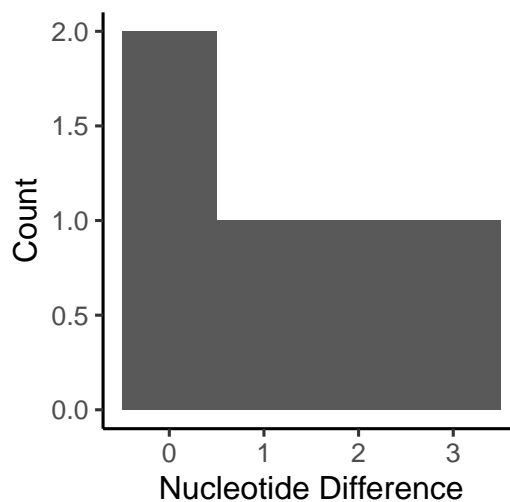
### IGKV1D-8\*01

71 sequences assigned  
57 (80.3%) exact matches, in which:  
48 unique CDR3  
5 unique J



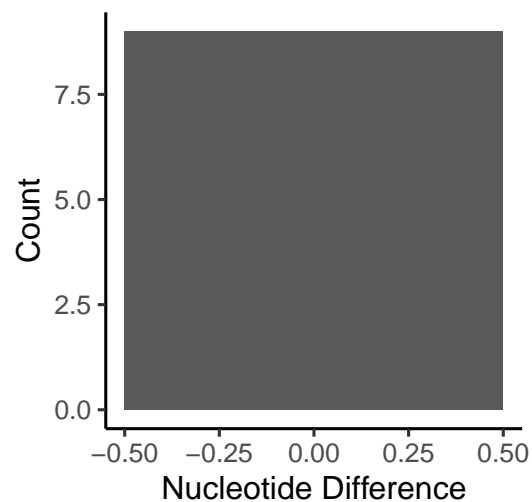
### IGKV3D-11\*02

5 sequences assigned  
2 (40%) exact matches, in which:  
2 unique CDR3  
2 unique J



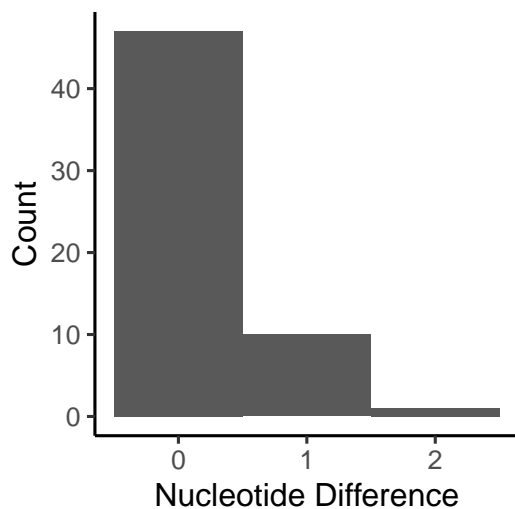
### IGKV1D-16\*02

9 sequences assigned  
9 (100%) exact matches, in which:  
8 unique CDR3  
3 unique J



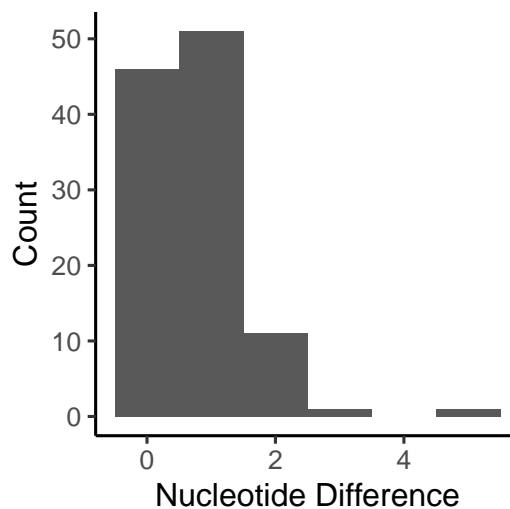
### IGKV1D-8\*03

58 sequences assigned  
47 (81%) exact matches, in which:  
38 unique CDR3  
5 unique J



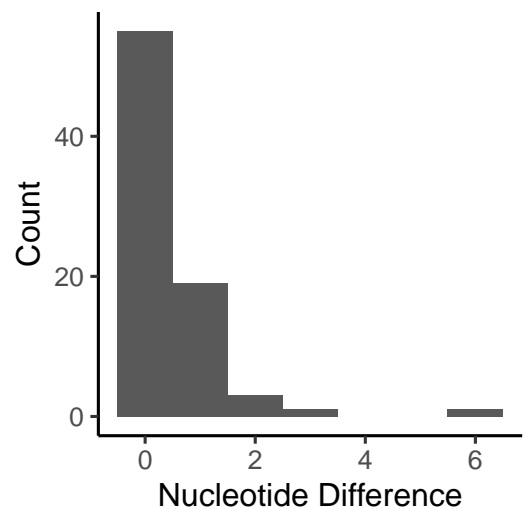
### IGKV3D-15\*01

110 sequences assigned  
46 (41.8%) exact matches, in which:  
43 unique CDR3  
5 unique J



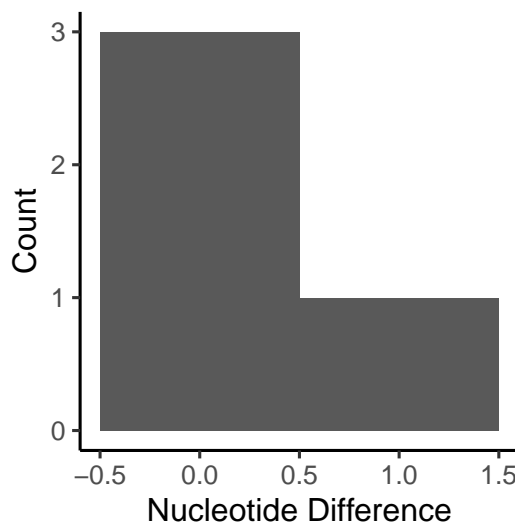
### IGKV3D-20\*01

79 sequences assigned  
55 (69.6%) exact matches, in which:  
50 unique CDR3  
5 unique J



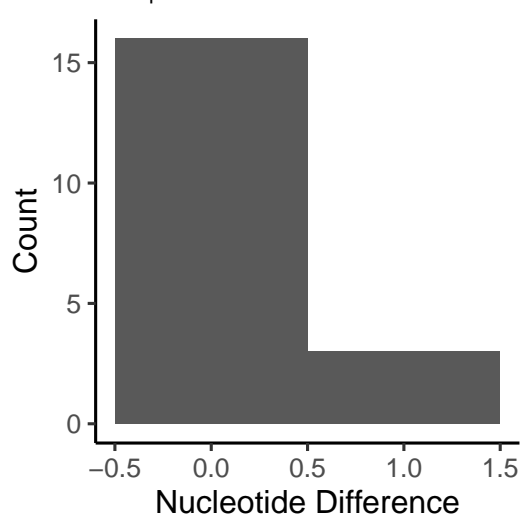
### IGKV3D-11\*01

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



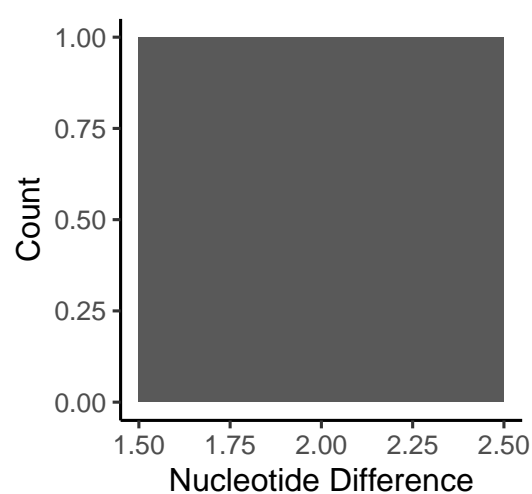
### IGKV1D-16\*01

19 sequences assigned  
16 (84.2%) exact matches, in which:  
16 unique CDR3  
5 unique J



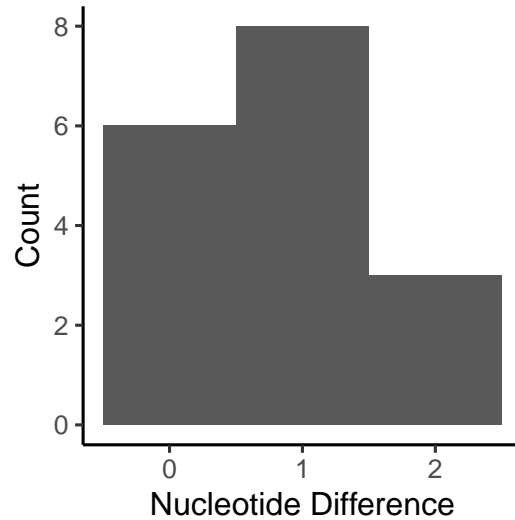
### IGKV2D-24\*01

1 sequences assigned  
No exact matches.



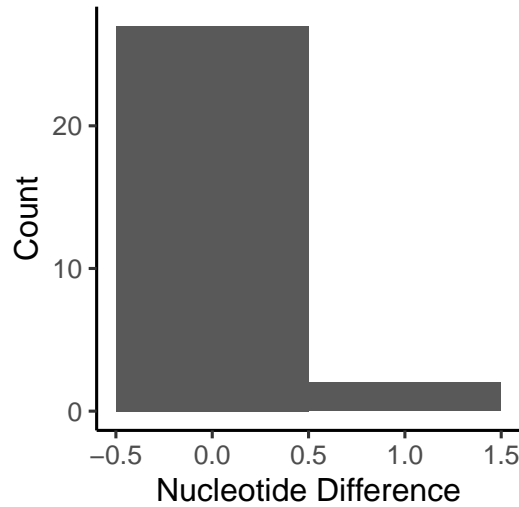
### IGKV2D-26\*03

17 sequences assigned  
6 (35.3%) exact matches, in which:  
6 unique CDR3  
4 unique J



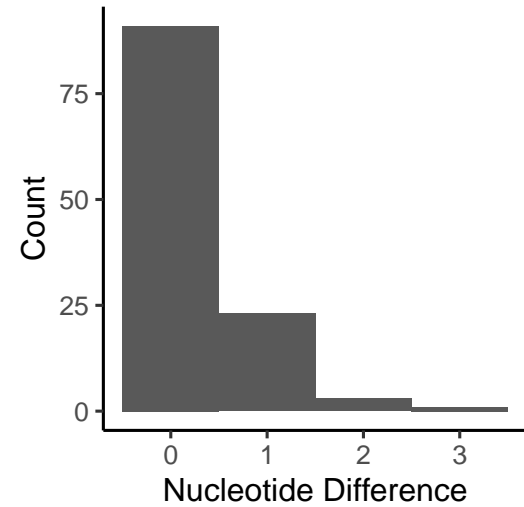
### IGKV2D-30\*01

29 sequences assigned  
27 (93.1%) exact matches, in which:  
26 unique CDR3  
5 unique J



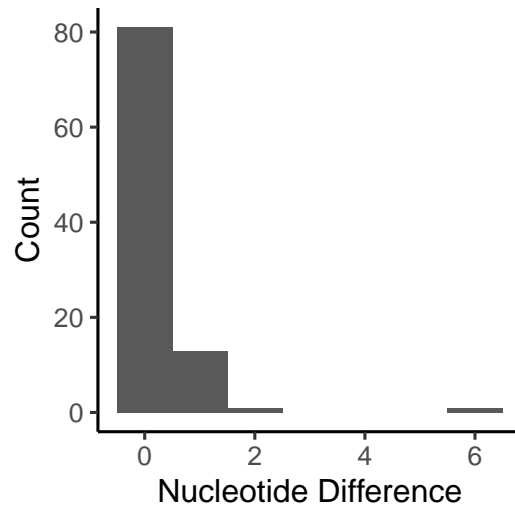
### IGKV1E-12\*01

118 sequences assigned  
91 (77.1%) exact matches, in which:  
57 unique CDR3  
5 unique J



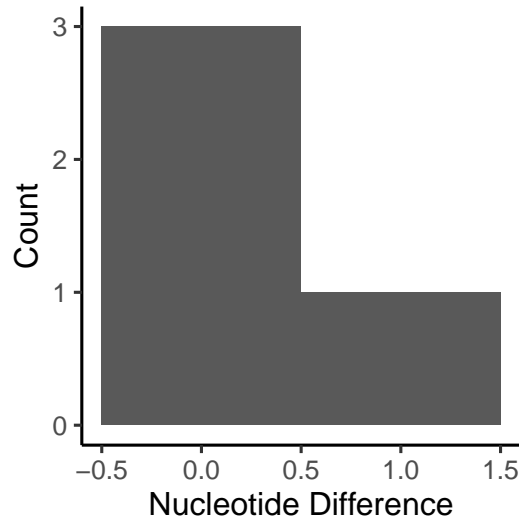
### IGKV2D-29\*01

96 sequences assigned  
81 (84.4%) exact matches, in which:  
72 unique CDR3  
5 unique J



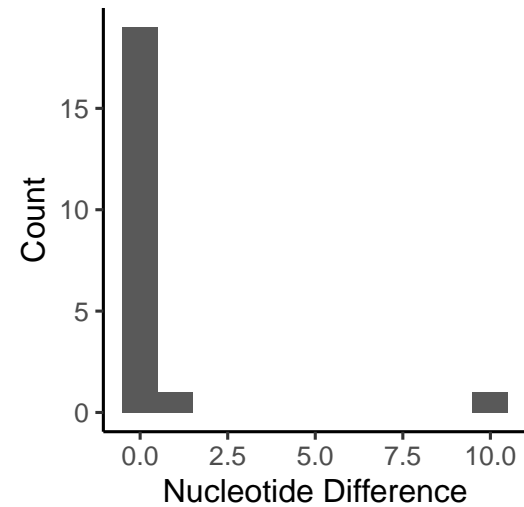
### IGKV6D-41\*01

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



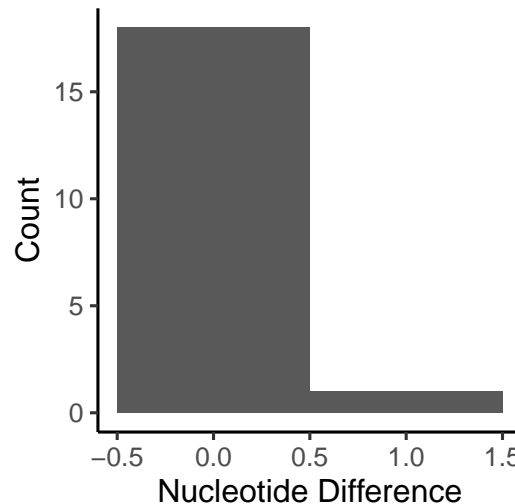
### IGKV1E-12\*02

21 sequences assigned  
19 (90.5%) exact matches, in which:  
15 unique CDR3  
5 unique J



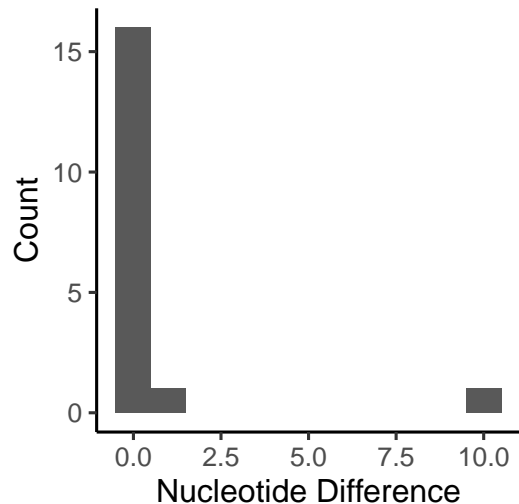
### IGKV2D-29\*02

19 sequences assigned  
18 (94.7%) exact matches, in which:  
15 unique CDR3  
5 unique J



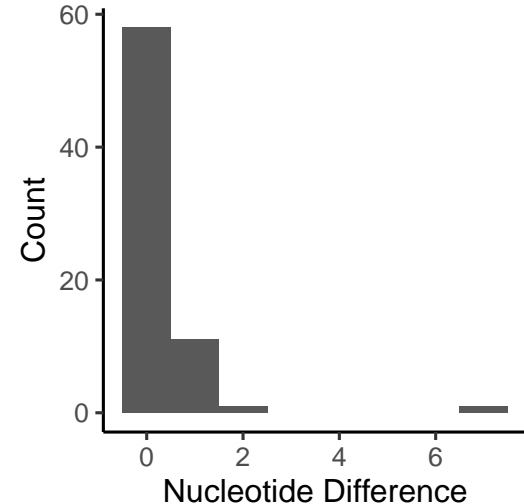
### IGKV1D-43\*01

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



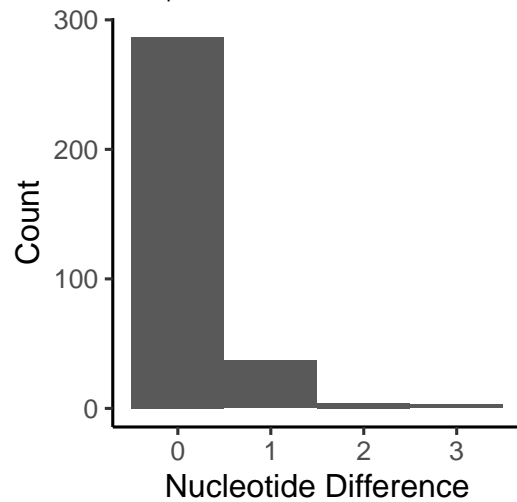
### IGKV1E-12\*03

71 sequences assigned  
58 (81.7%) exact matches, in which:  
42 unique CDR3  
5 unique J



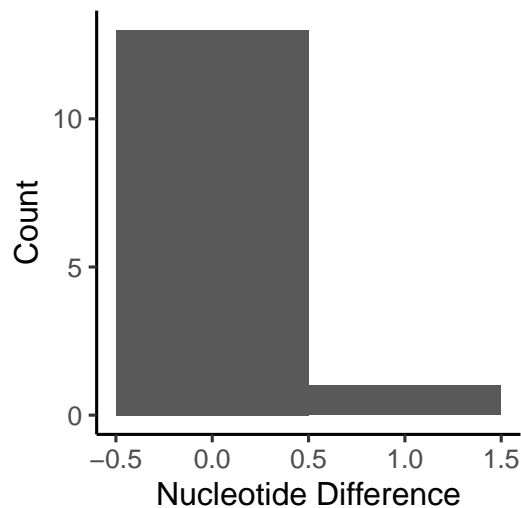
### IGKV1E-13\*02

331 sequences assigned  
287 (86.7%) exact matches, in which:  
231 unique CDR3  
5 unique J



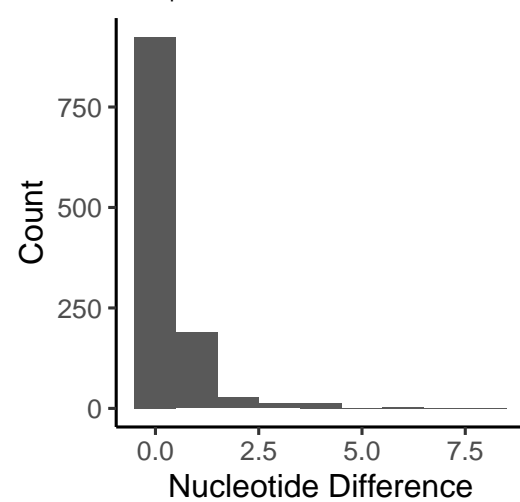
### IGKV6E-21\*03

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



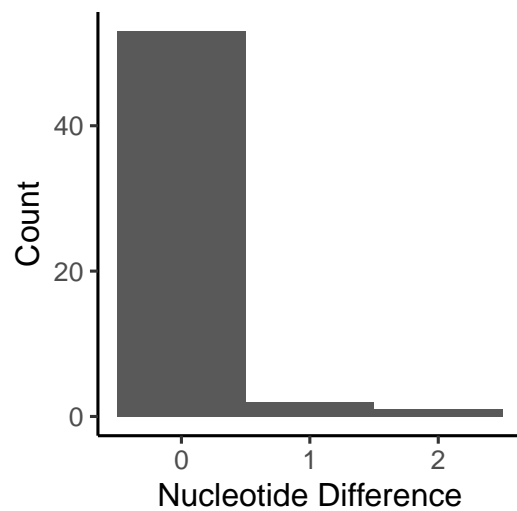
### IGKV1E-33\*01

1174 sequences assigned  
925 (78.8%) exact matches, in which:  
692 unique CDR3  
5 unique J



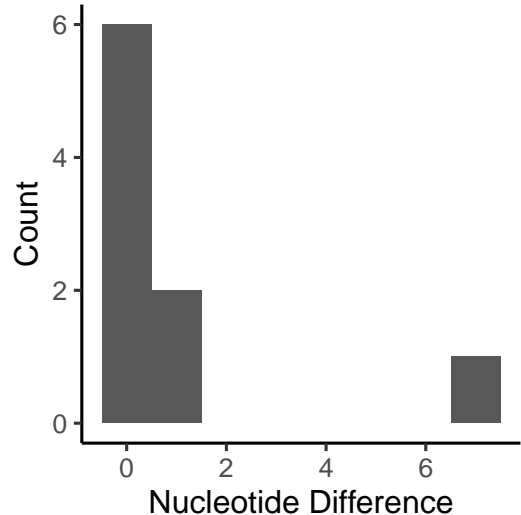
### IGKV1E-13\*03

56 sequences assigned  
53 (94.6%) exact matches, in which:  
49 unique CDR3  
5 unique J



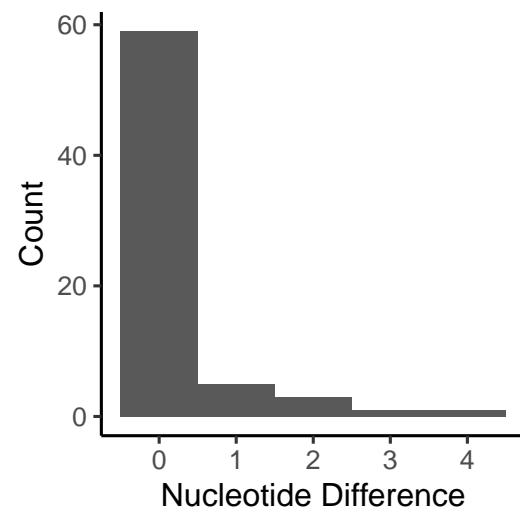
### IGKV6E-21\*03\_A202T

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



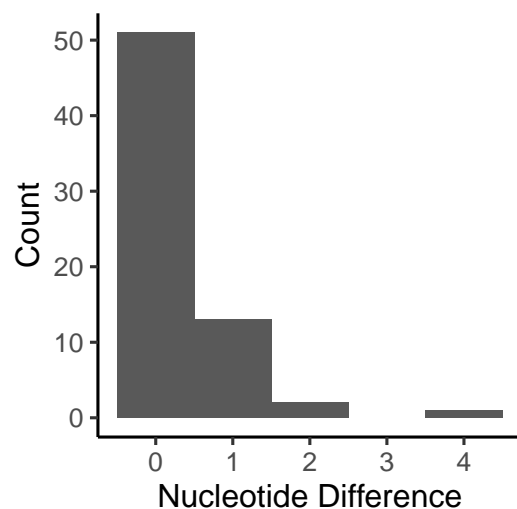
### IGKV1E-37\*01

69 sequences assigned  
59 (85.5%) exact matches, in which:  
54 unique CDR3  
5 unique J



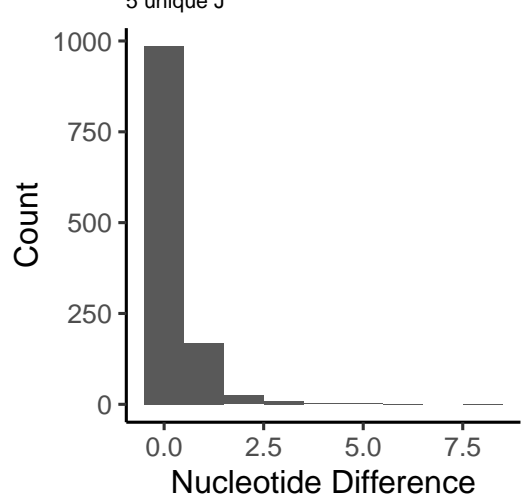
### IGKV6E-21\*01

67 sequences assigned  
51 (76.1%) exact matches, in which:  
41 unique CDR3  
5 unique J



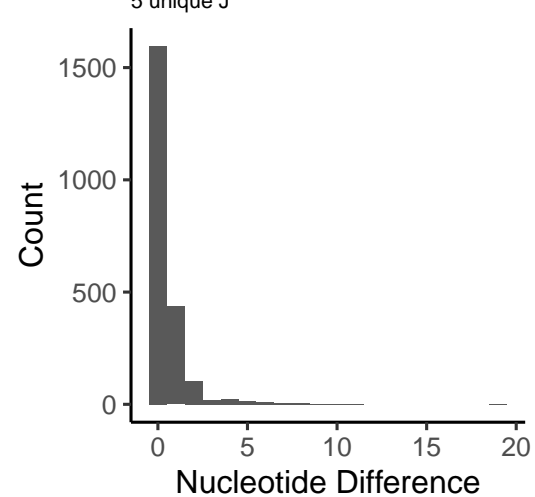
### IGKV2E-28\*01

1195 sequences assigned  
986 (82.5%) exact matches, in which:  
732 unique CDR3  
5 unique J



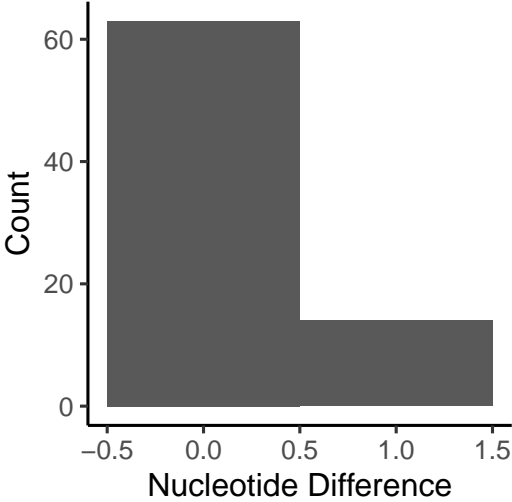
### IGKV1E-39\*01

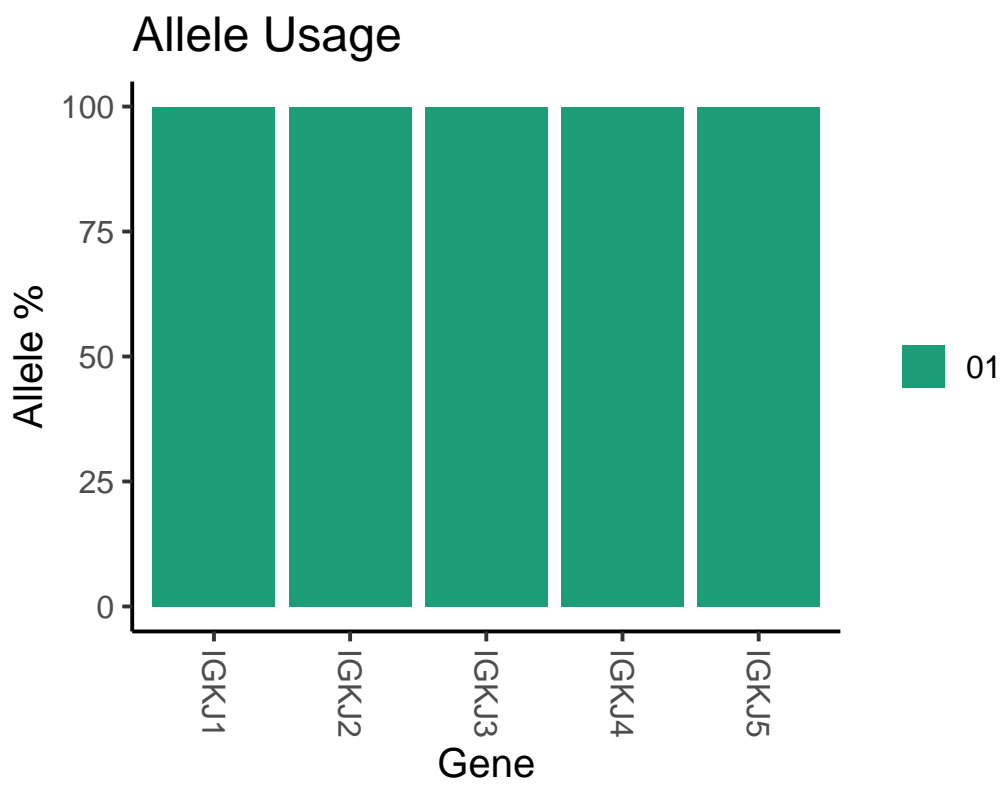
2220 sequences assigned  
1596 (71.9%) exact matches, in which:  
1107 unique CDR3  
5 unique J



# IGKV2E-40\*01

77 sequences assigned  
63 (81.8%) exact matches, in which:  
50 unique CDR3  
5 unique J







Warning – no inferred sequences found.