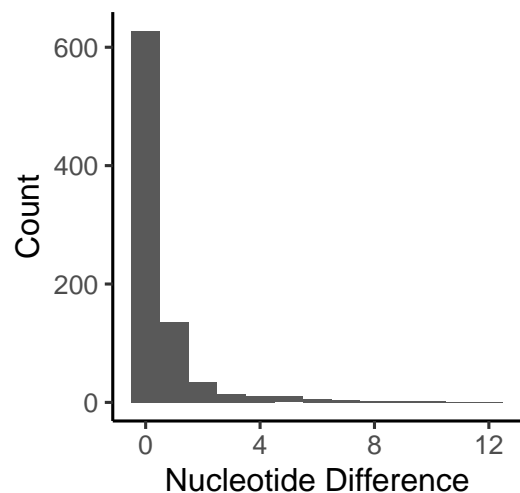


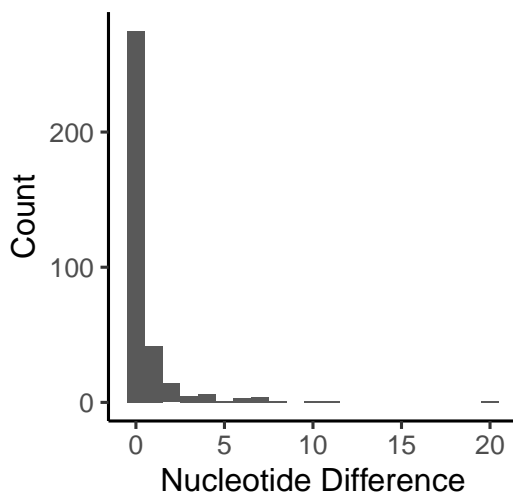
### IGKV1–5\*03

853 sequences assigned  
628 (73.6%) exact matches, in which:  
494 unique CDR3  
6 unique J



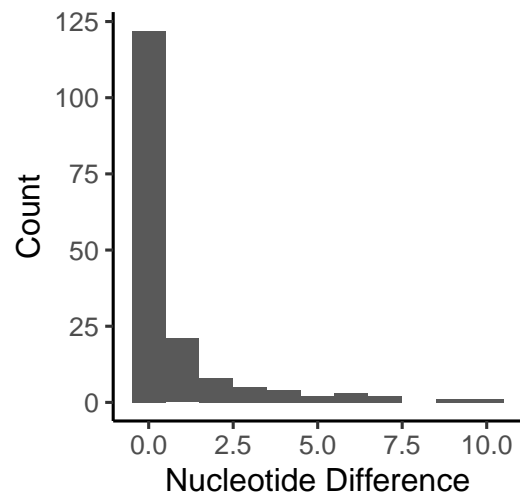
### IGKV1–9\*01

355 sequences assigned  
275 (77.5%) exact matches, in which:  
236 unique CDR3  
6 unique J



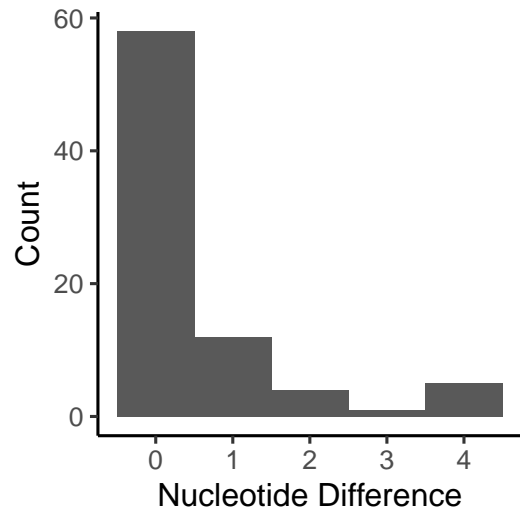
### IGKV1–27\*01

169 sequences assigned  
122 (72.2%) exact matches, in which:  
100 unique CDR3  
6 unique J



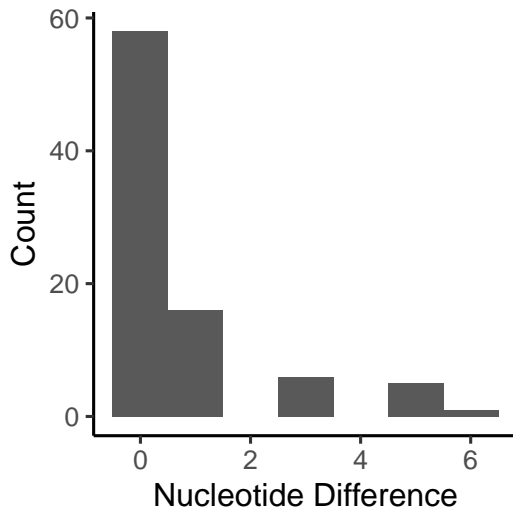
### IGKV1–6\*01

80 sequences assigned  
58 (72.5%) exact matches, in which:  
42 unique CDR3  
6 unique J



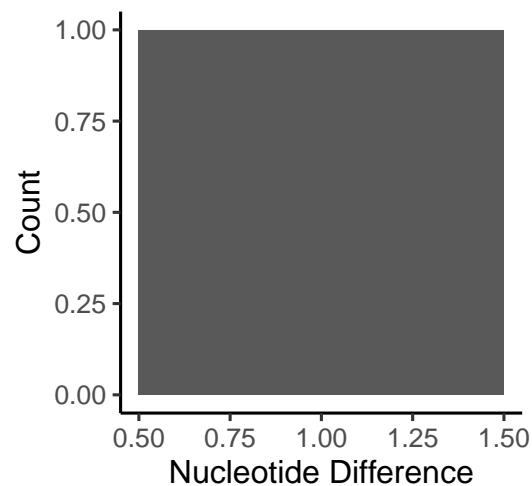
### IGKV1–16\*02

86 sequences assigned  
58 (67.4%) exact matches, in which:  
44 unique CDR3  
6 unique J



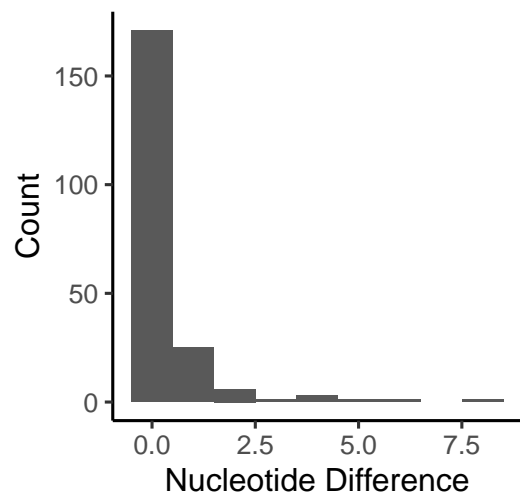
### IGKV2/OR22–4\*01

1 sequences assigned  
No exact matches.



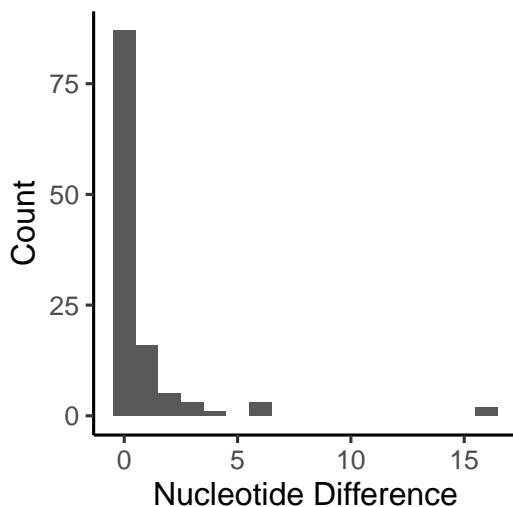
### IGKV1–8\*01

209 sequences assigned  
171 (81.8%) exact matches, in which:  
129 unique CDR3  
6 unique J



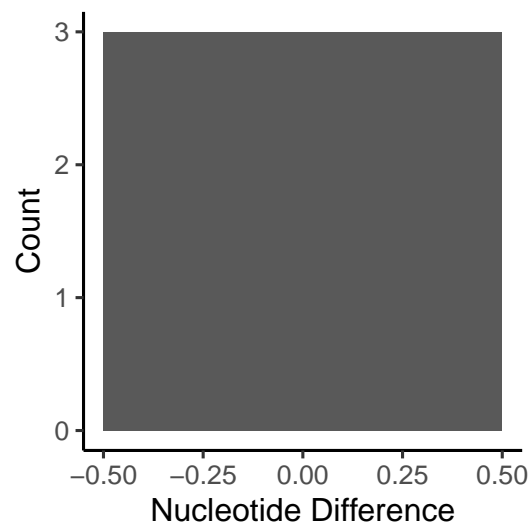
### IGKV1–17\*01

117 sequences assigned  
87 (74.4%) exact matches, in which:  
76 unique CDR3  
6 unique J



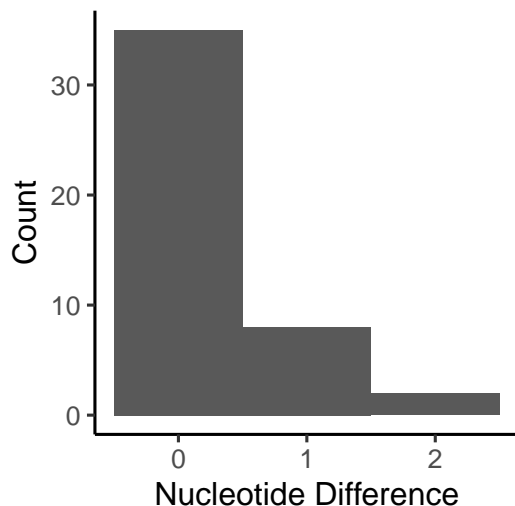
### IGKV2–18\*01

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



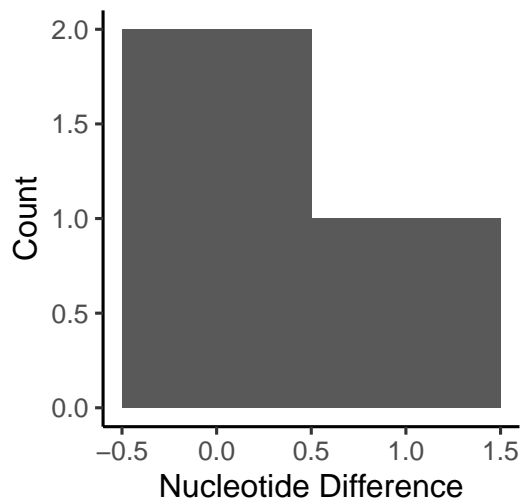
### IGKV2-24\*01

45 sequences assigned  
35 (77.8%) exact matches, in which:  
34 unique CDR3  
6 unique J



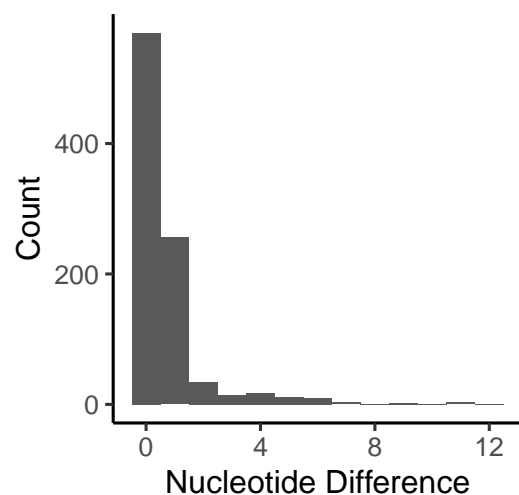
### IGKV3/OR2-268\*01

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



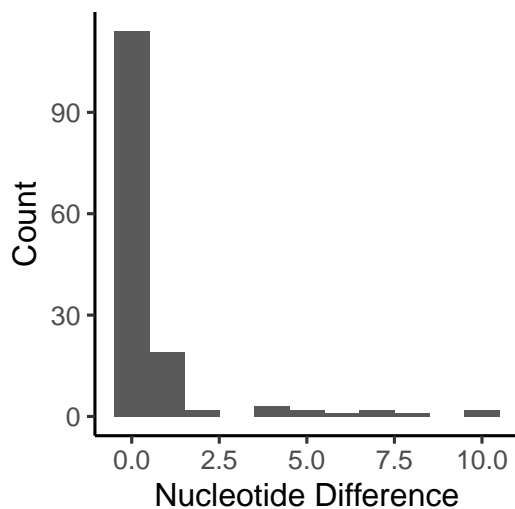
### IGKV3-15\*01

923 sequences assigned  
570 (61.8%) exact matches, in which:  
478 unique CDR3  
6 unique J



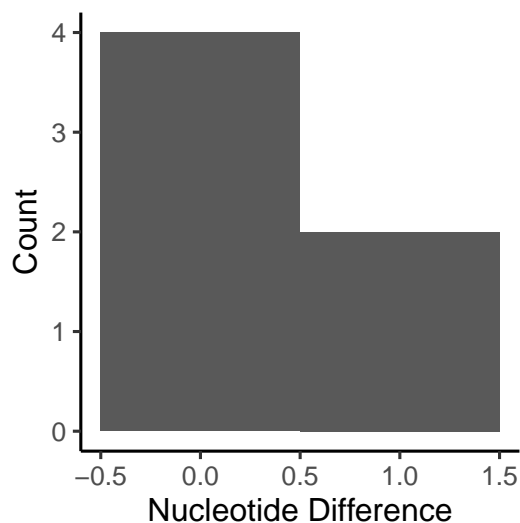
### IGKV2-30\*01

146 sequences assigned  
114 (78.1%) exact matches, in which:  
105 unique CDR3  
6 unique J



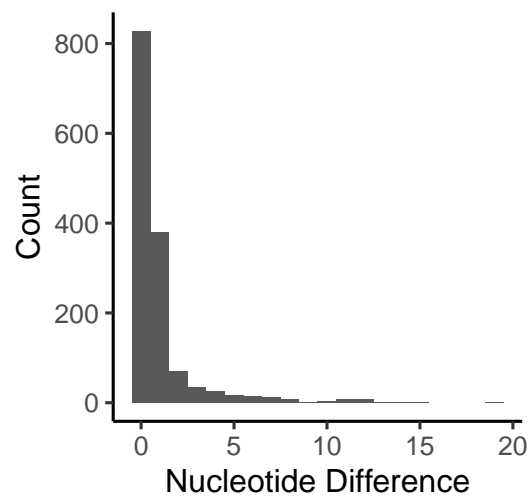
### IGKV3-7\*04

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



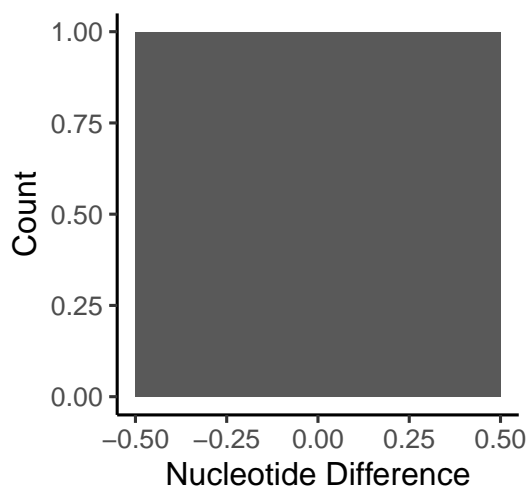
### IGKV3-20\*01

1414 sequences assigned  
828 (58.6%) exact matches, in which:  
707 unique CDR3  
6 unique J



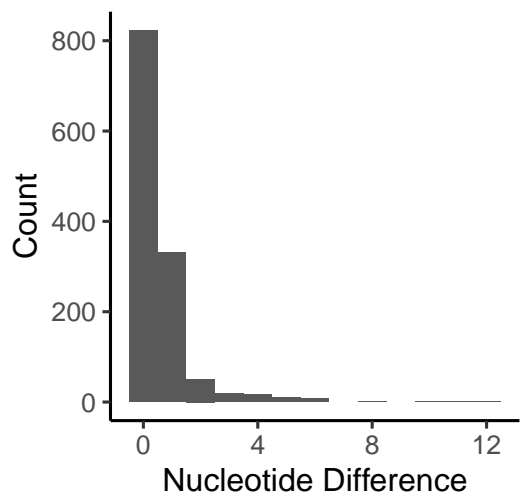
### IGKV1/OR2-108\*01

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



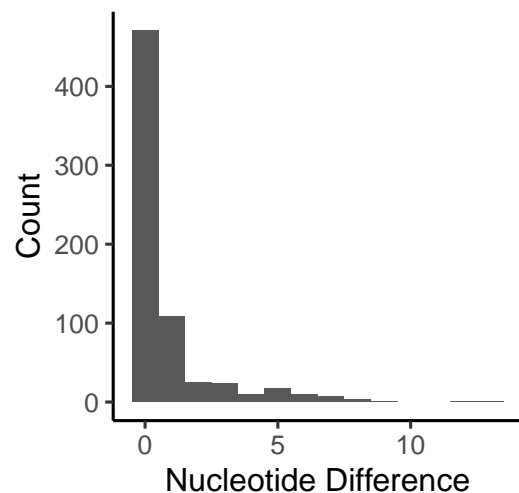
### IGKV3-11\*01

1262 sequences assigned  
823 (65.2%) exact matches, in which:  
648 unique CDR3  
6 unique J



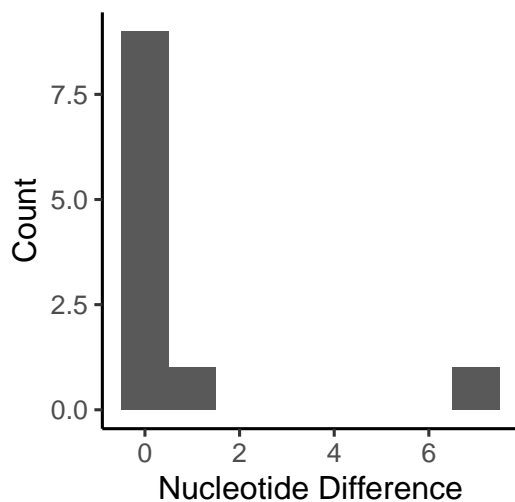
### IGKV4-1\*01

677 sequences assigned  
471 (69.6%) exact matches, in which:  
378 unique CDR3  
6 unique J



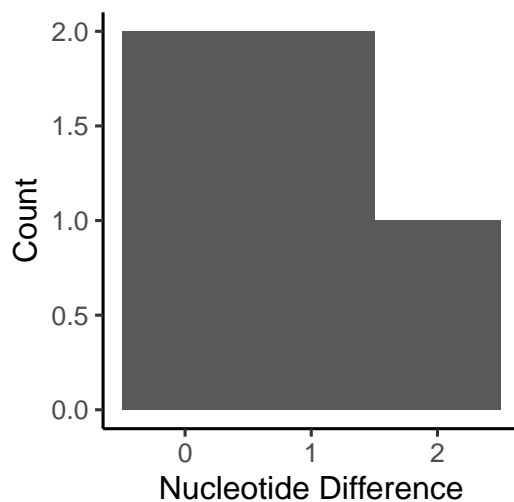
### IGKV5-2\*01

11 sequences assigned  
9 (81.8%) exact matches, in which:  
9 unique CDR3  
3 unique J



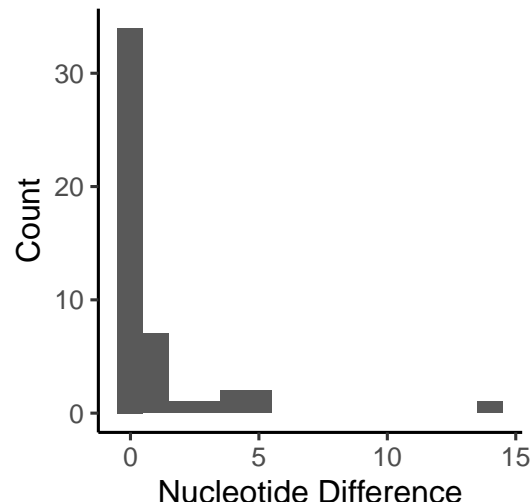
### IGKV3D-7\*01

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



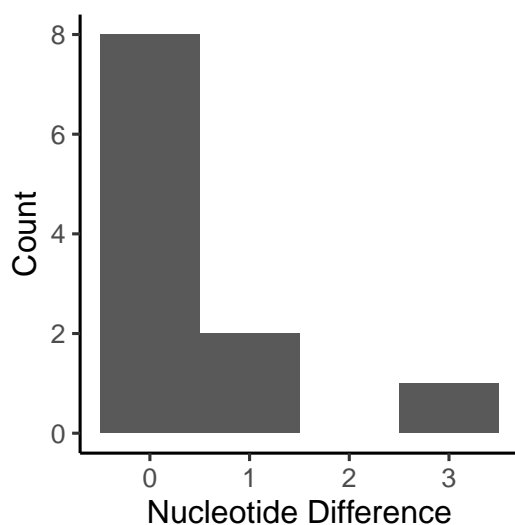
### IGKV3D-15\*01

48 sequences assigned  
34 (70.8%) exact matches, in which:  
33 unique CDR3  
6 unique J



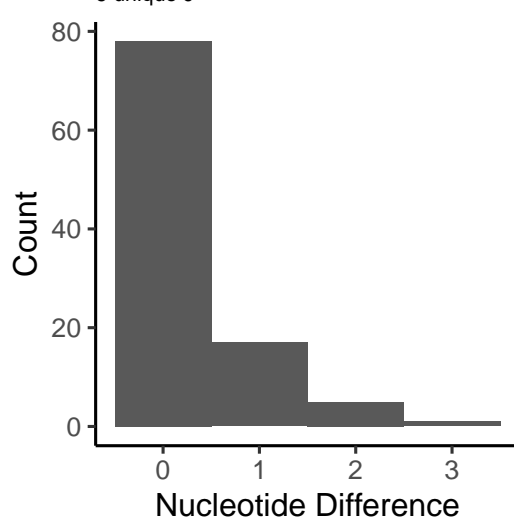
### IGKV5-2\*01\_C214T

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



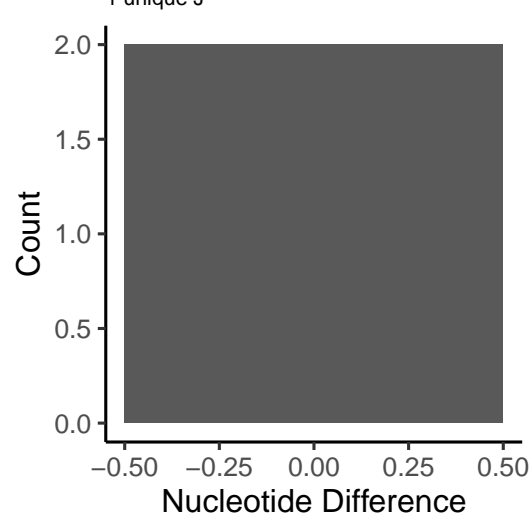
### IGKV1D-8\*01

101 sequences assigned  
78 (77.2%) exact matches, in which:  
61 unique CDR3  
6 unique J



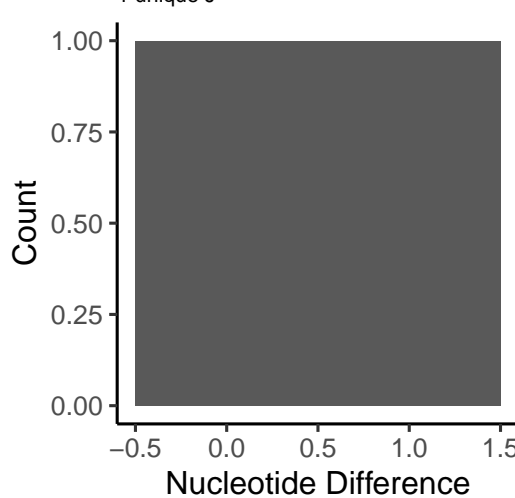
### IGKV3D-15\*01\_A235C

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



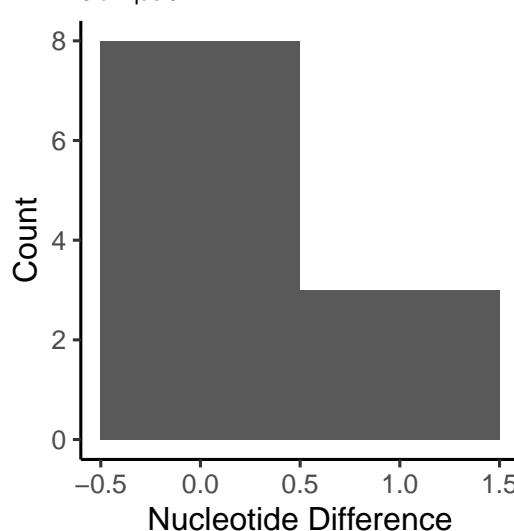
### IGKV7-3\*01

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



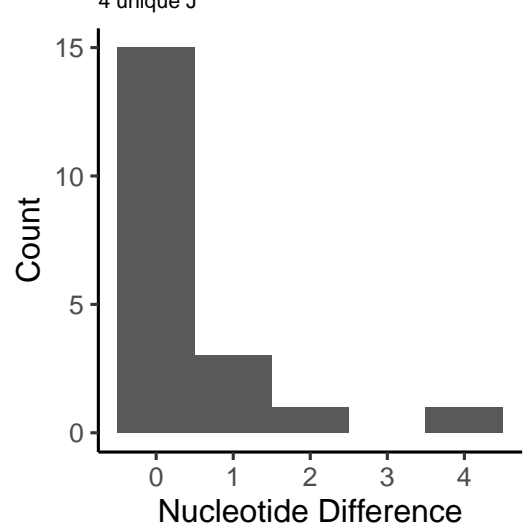
### IGKV3D-11\*01

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



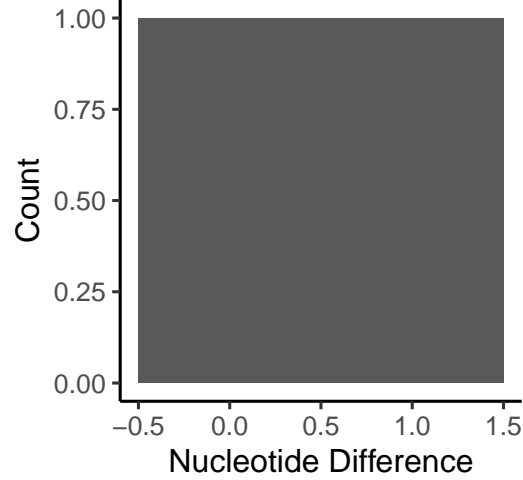
### IGKV1D-16\*01

20 sequences assigned  
15 (75%) exact matches, in which:  
14 unique CDR3  
4 unique J



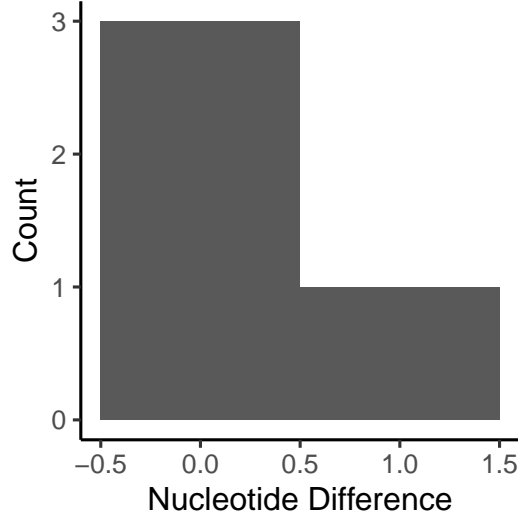
### IGKV1D-17\*01

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



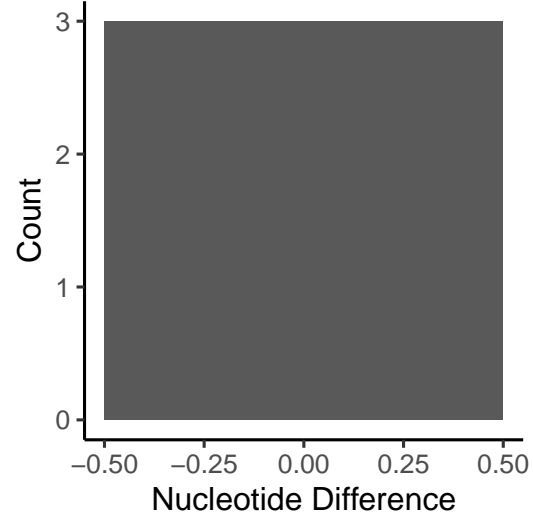
### IGKV2D-26\*03

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



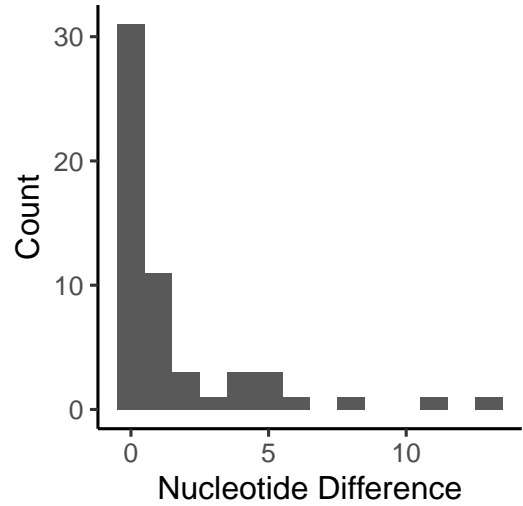
### IGKV6D-41\*01

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



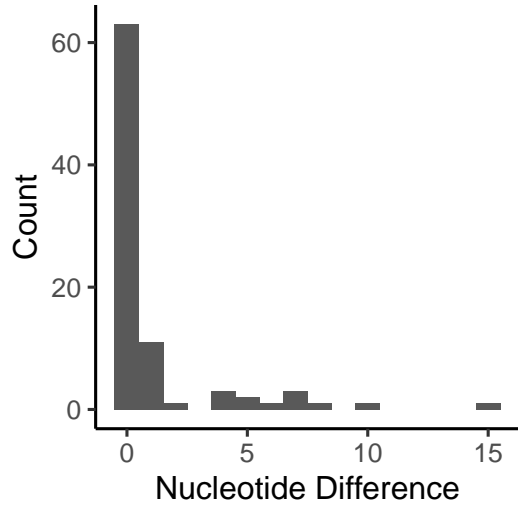
### IGKV3D-20\*01

56 sequences assigned  
31 (55.4%) exact matches, in which:  
29 unique CDR3  
6 unique J



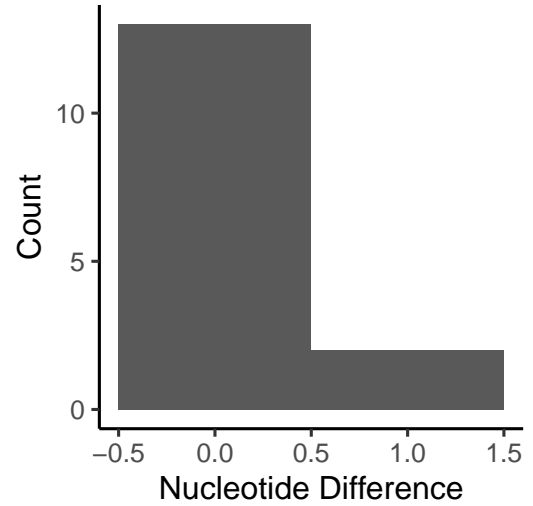
### IGKV2D-29\*01

88 sequences assigned  
63 (71.6%) exact matches, in which:  
56 unique CDR3  
6 unique J



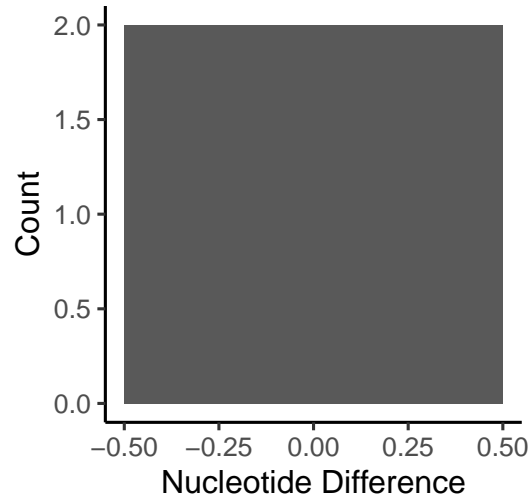
### IGKV1D-43\*01

15 sequences assigned  
13 (86.7%) exact matches, in which:  
13 unique CDR3  
4 unique J



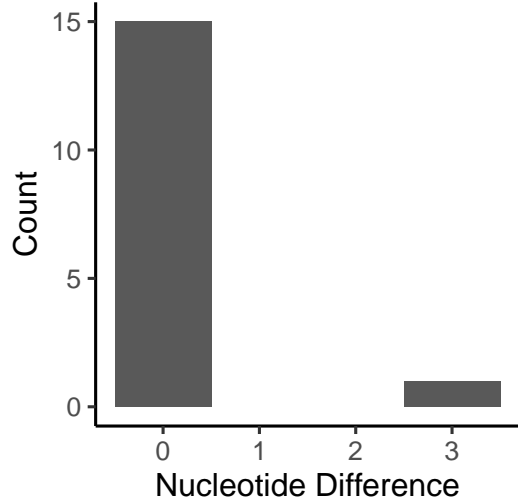
### IGKV2D-24\*01

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



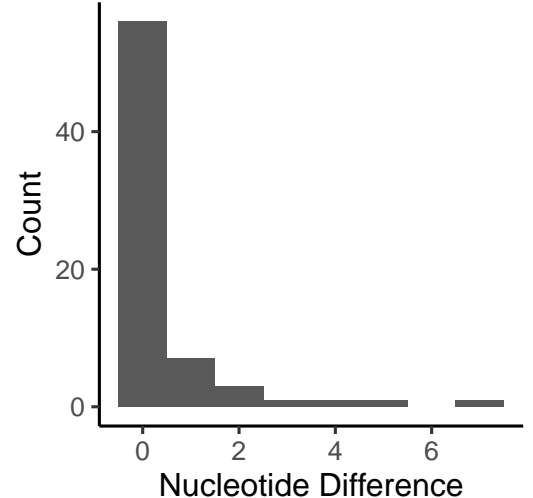
### IGKV2D-30\*01

16 sequences assigned  
15 (93.8%) exact matches, in which:  
14 unique CDR3  
6 unique J



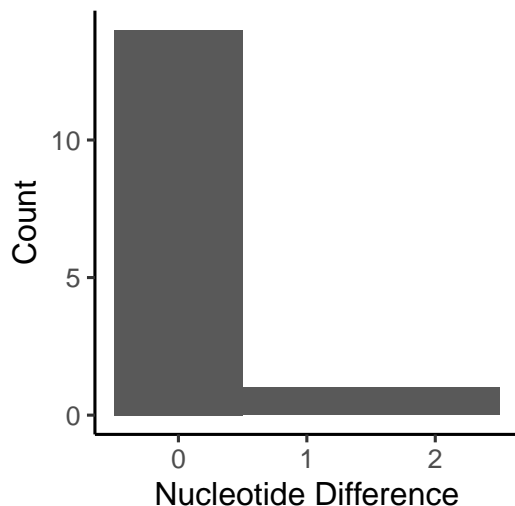
### IGKV1E-12\*01

70 sequences assigned  
56 (80%) exact matches, in which:  
46 unique CDR3  
6 unique J



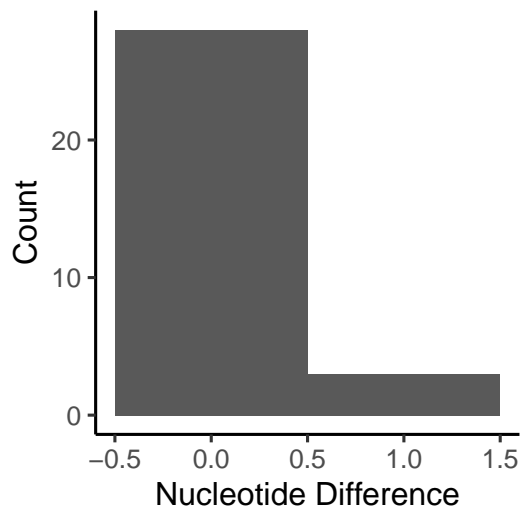
### IGKV1E-12\*02

16 sequences assigned  
14 (87.5%) exact matches, in which:  
10 unique CDR3  
6 unique J



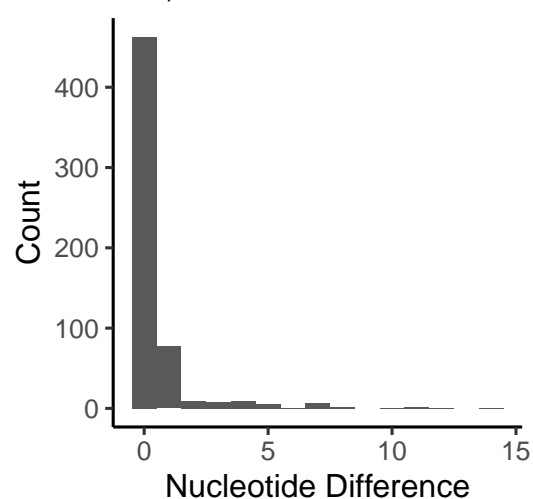
### IGKV6E-21\*01

31 sequences assigned  
28 (90.3%) exact matches, in which:  
27 unique CDR3  
6 unique J



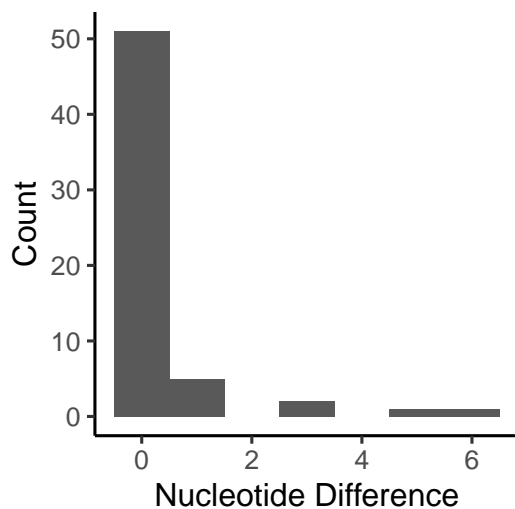
### IGKV1E-33\*01

586 sequences assigned  
463 (79%) exact matches, in which:  
378 unique CDR3  
6 unique J



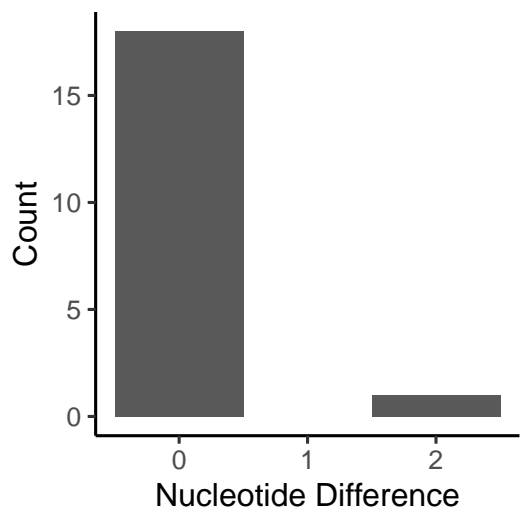
### IGKV1E-12\*03

60 sequences assigned  
51 (85%) exact matches, in which:  
43 unique CDR3  
6 unique J



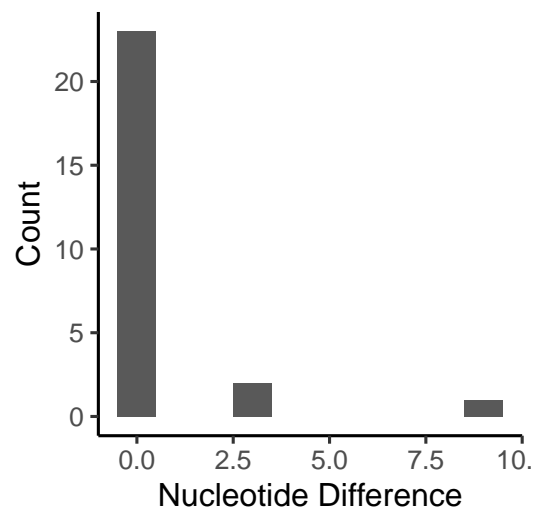
### IGKV6E-21\*03

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



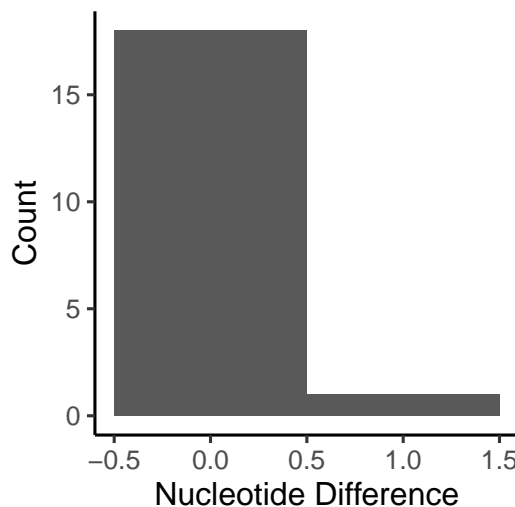
### IGKV1E-37\*01

26 sequences assigned  
23 (88.5%) exact matches, in which:  
20 unique CDR3  
6 unique J



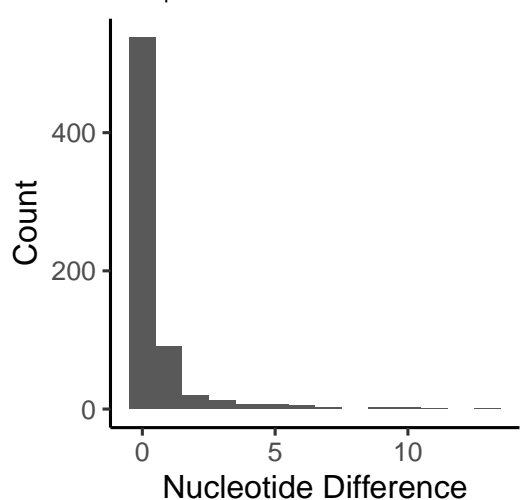
### IGKV1E-13\*03

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



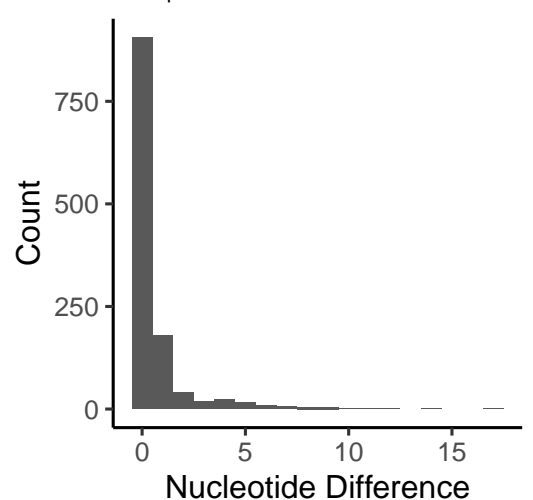
### IGKV2E-28\*01

686 sequences assigned  
538 (78.4%) exact matches, in which:  
450 unique CDR3  
6 unique J



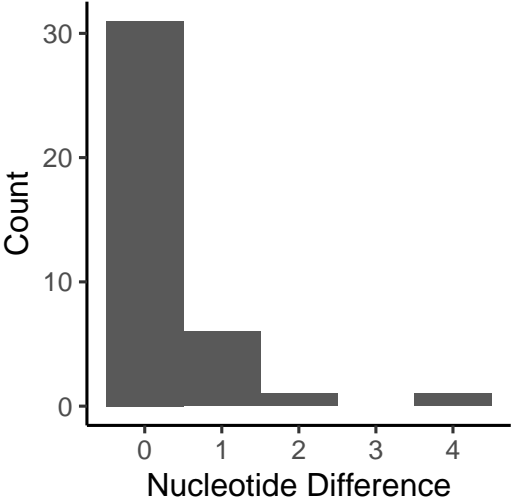
### IGKV1E-39\*01

1214 sequences assigned  
906 (74.6%) exact matches, in which:  
708 unique CDR3  
6 unique J

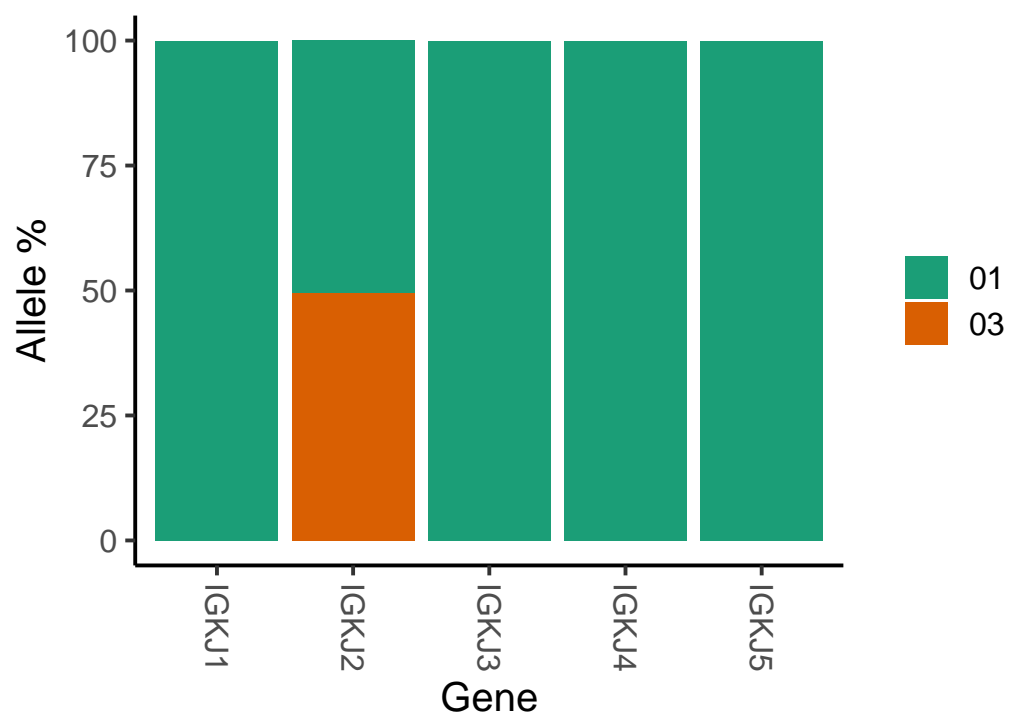


# IGKV2E-40\*01

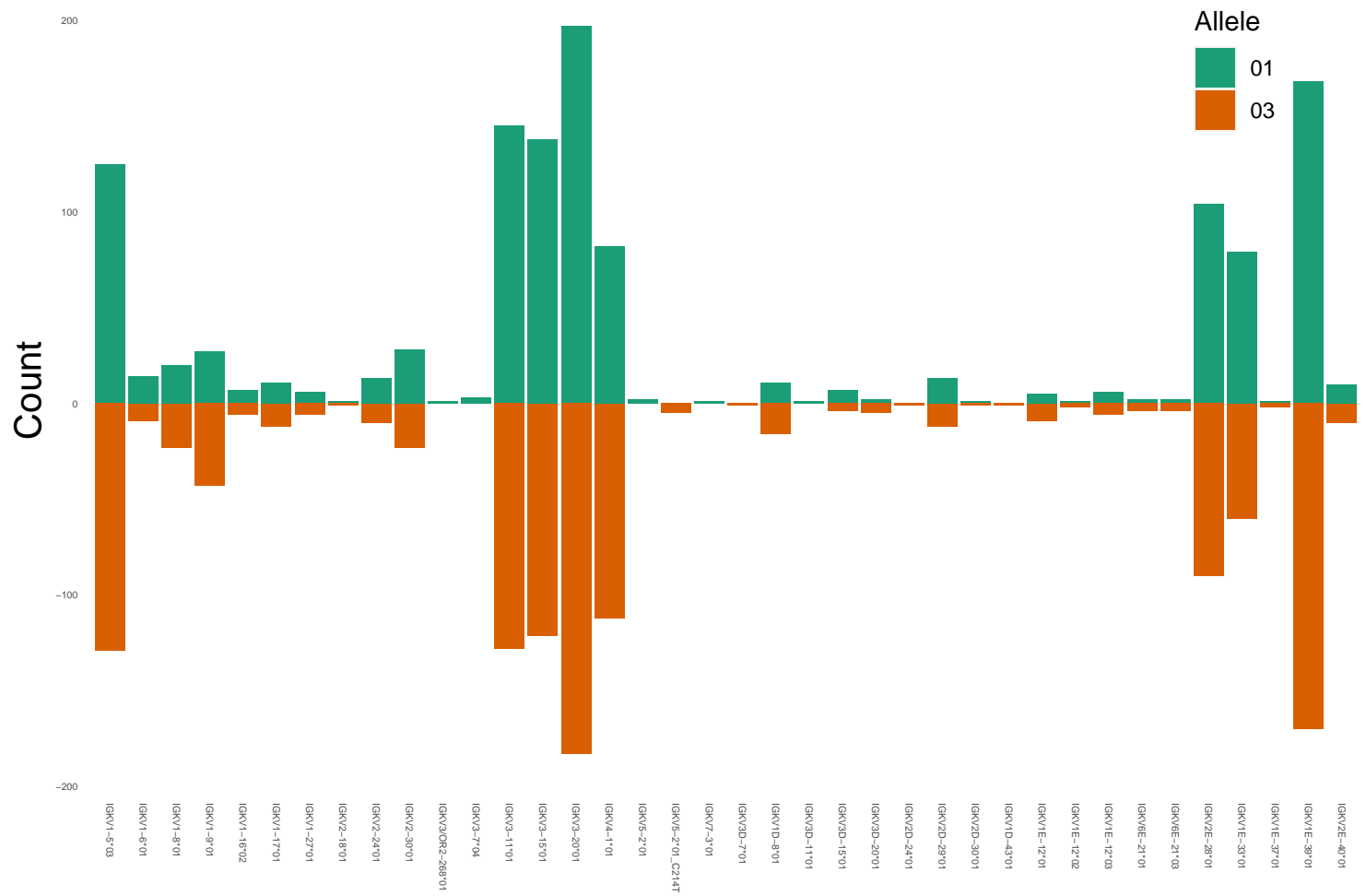
39 sequences assigned  
31 (79.5%) exact matches, in which:  
29 unique CDR3  
5 unique J



Allele Usage



## Sequence Count by IGKJ2 allele usage





Warning – no inferred sequences found.