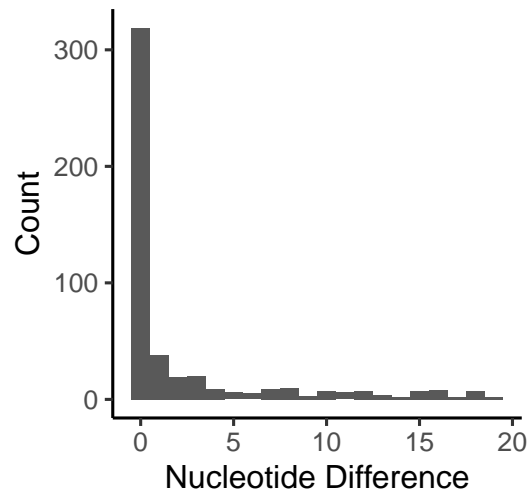


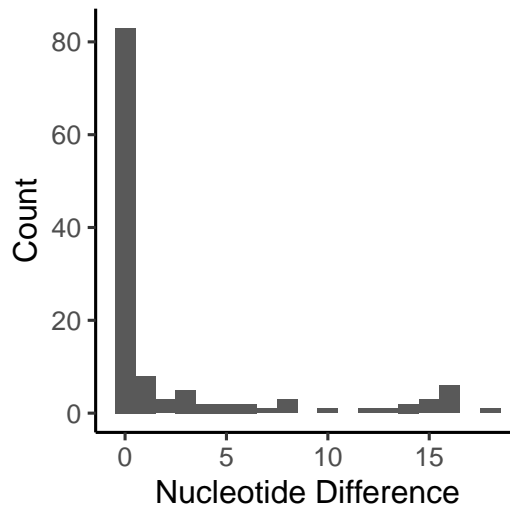
### IGKV1–5\*03

495 sequences assigned  
319 (64.4%) exact matches, in which:  
269 unique CDR3  
6 unique J



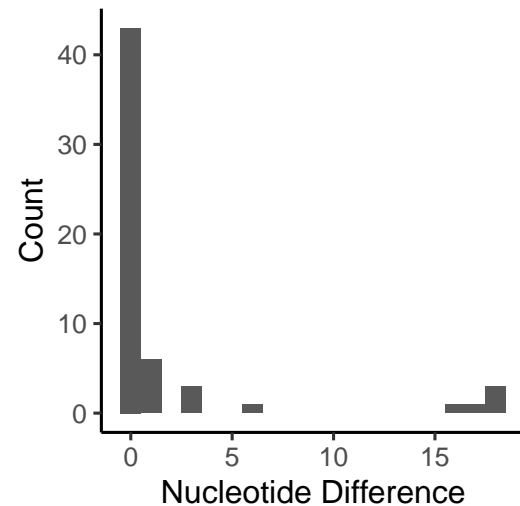
### IGKV1–9\*01

125 sequences assigned  
83 (66.4%) exact matches, in which:  
71 unique CDR3  
6 unique J



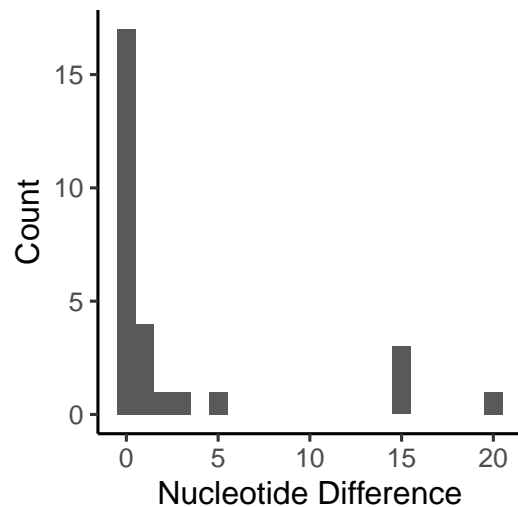
### IGKV1–17\*01

59 sequences assigned  
43 (72.9%) exact matches, in which:  
35 unique CDR3  
5 unique J



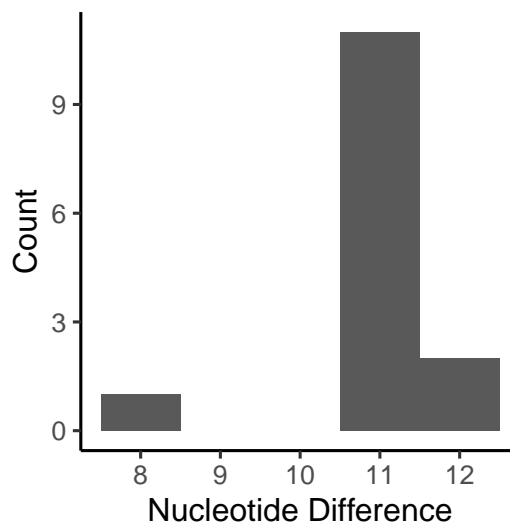
### IGKV1–6\*01

28 sequences assigned  
17 (60.7%) exact matches, in which:  
16 unique CDR3  
5 unique J



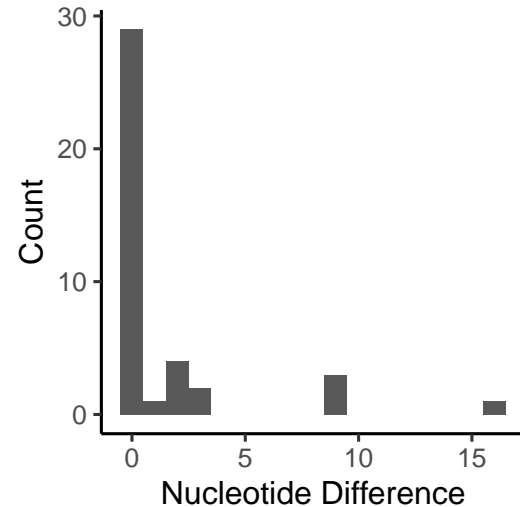
### IGKV1–16\*01

14 sequences assigned  
No exact matches.



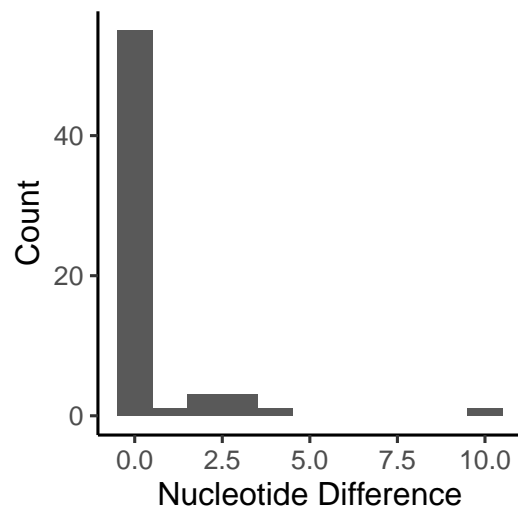
### IGKV1–27\*01

40 sequences assigned  
29 (72.5%) exact matches, in which:  
24 unique CDR3  
4 unique J



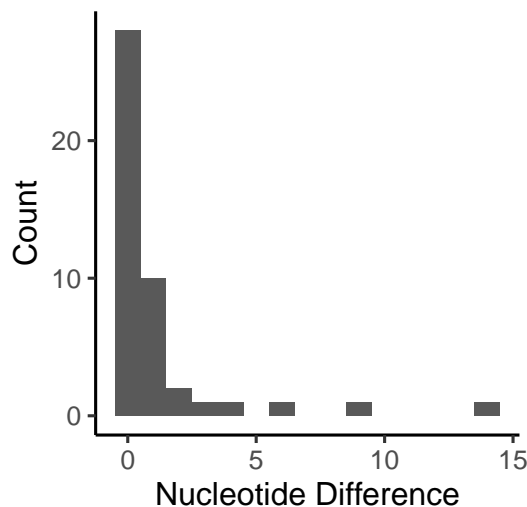
### IGKV1–8\*01

64 sequences assigned  
55 (85.9%) exact matches, in which:  
45 unique CDR3  
6 unique J



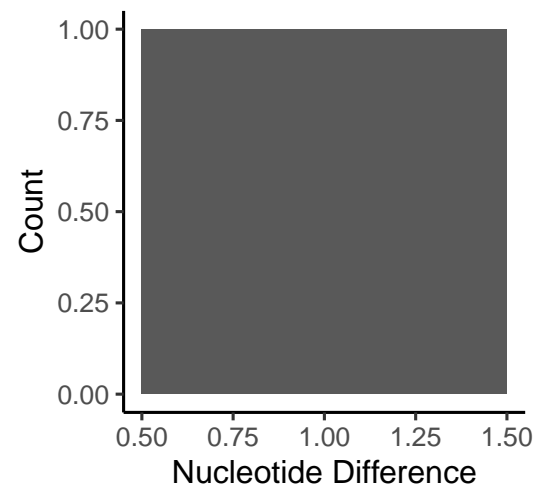
### IGKV1–16\*02

45 sequences assigned  
28 (62.2%) exact matches, in which:  
26 unique CDR3  
5 unique J



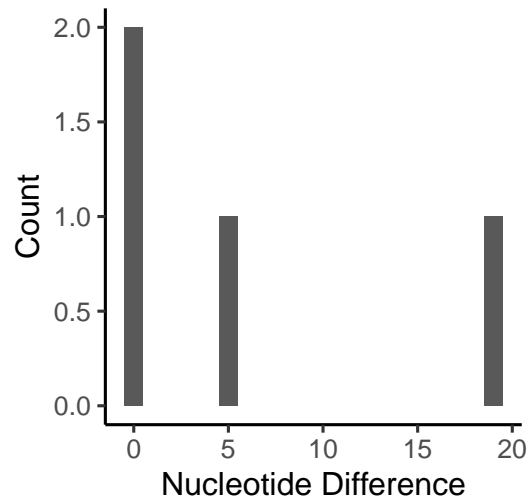
### IGKV2/OR22–4\*01

1 sequences assigned  
No exact matches.



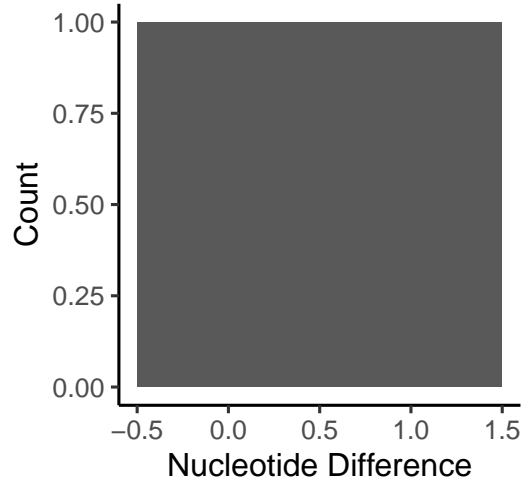
### IGKV2-24\*01

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



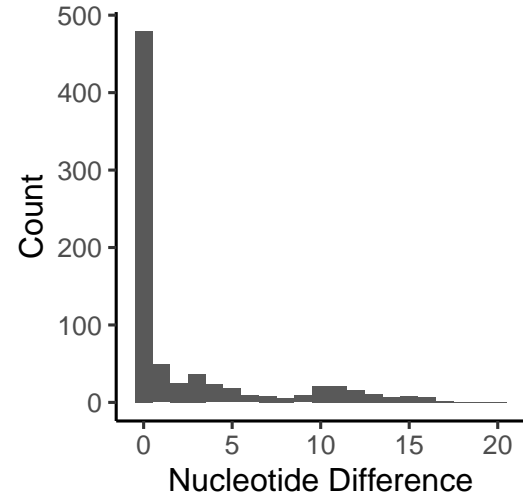
### IGKV3-7\*04

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



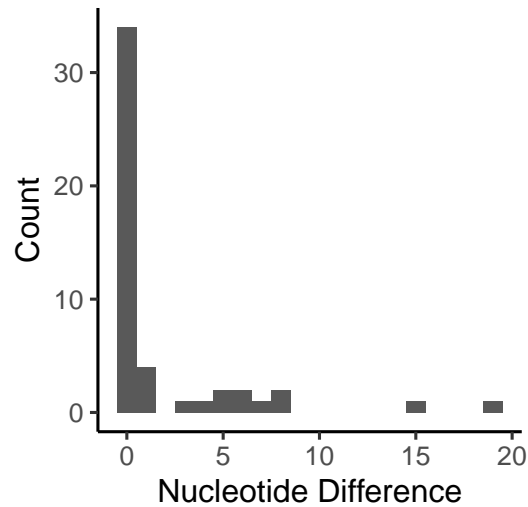
### IGKV3-20\*01

779 sequences assigned  
480 (61.6%) exact matches, in which:  
403 unique CDR3  
6 unique J



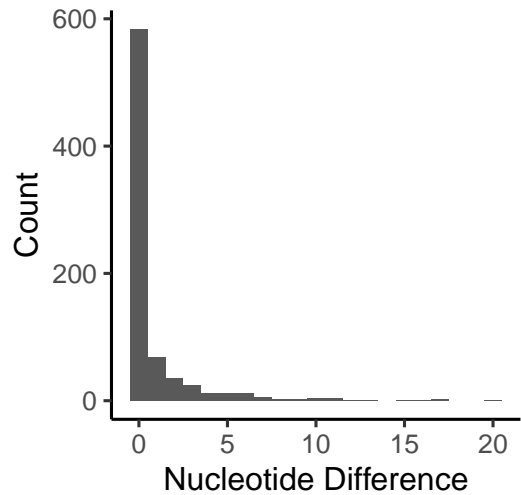
### IGKV2-30\*01

50 sequences assigned  
34 (68%) exact matches, in which:  
31 unique CDR3  
6 unique J



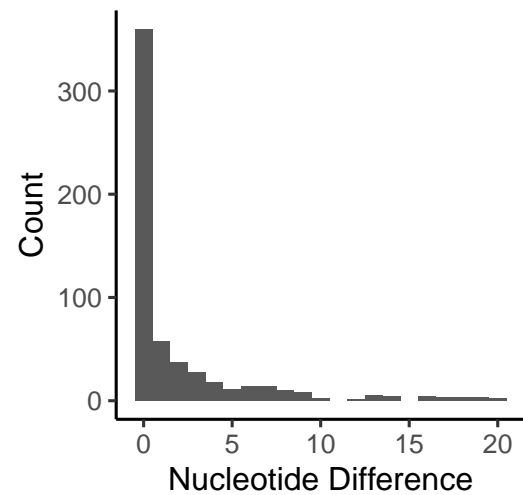
### IGKV3-11\*01

774 sequences assigned  
584 (75.5%) exact matches, in which:  
463 unique CDR3  
6 unique J



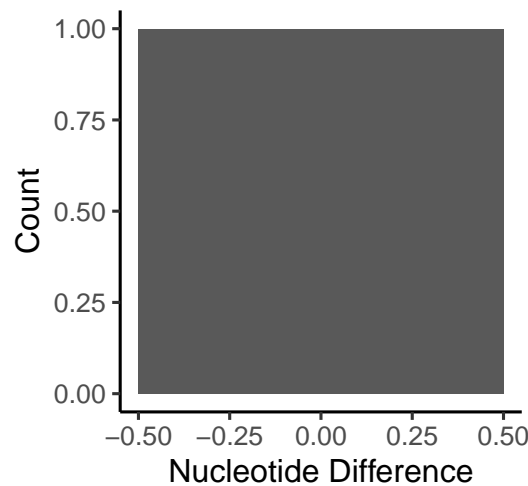
### IGKV4-1\*01

598 sequences assigned  
360 (60.2%) exact matches, in which:  
279 unique CDR3  
6 unique J



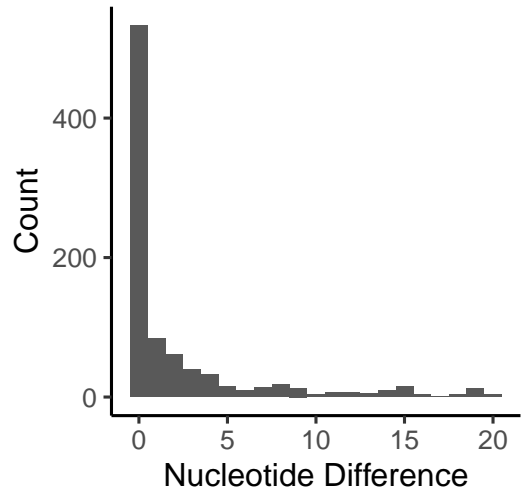
### IGKV3/OR2-268\*01

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



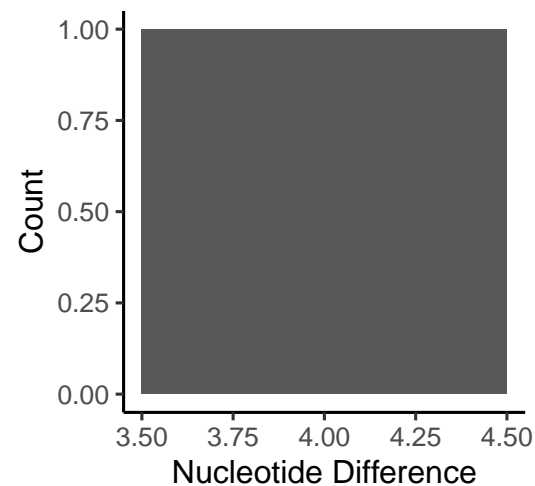
### IGKV3-15\*01

904 sequences assigned  
533 (59%) exact matches, in which:  
429 unique CDR3  
6 unique J



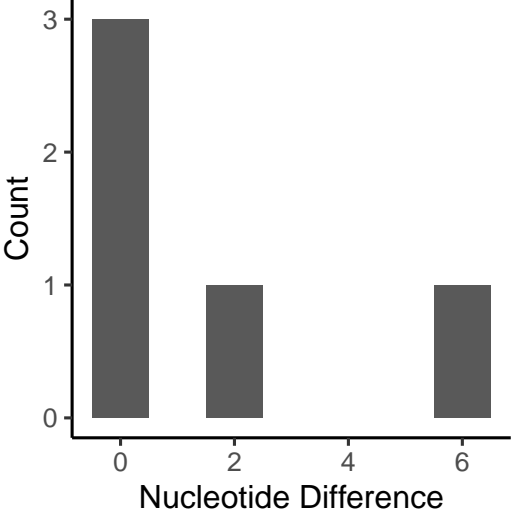
### IGKV5-2\*01

1 sequences assigned  
No exact matches.



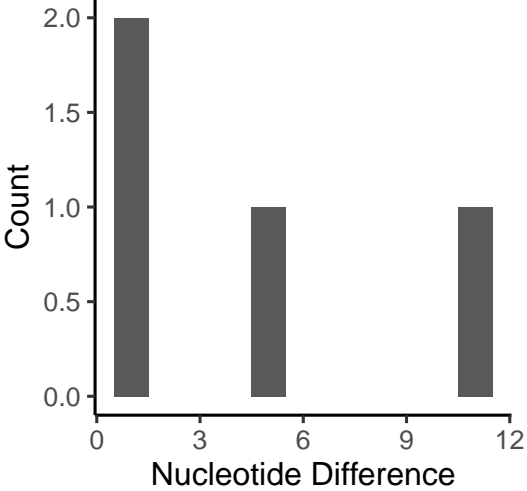
IGKV3D-7\*01

5 sequences assigned  
3 (60%) exact matches, in which:  
3 unique CDR3  
2 unique J



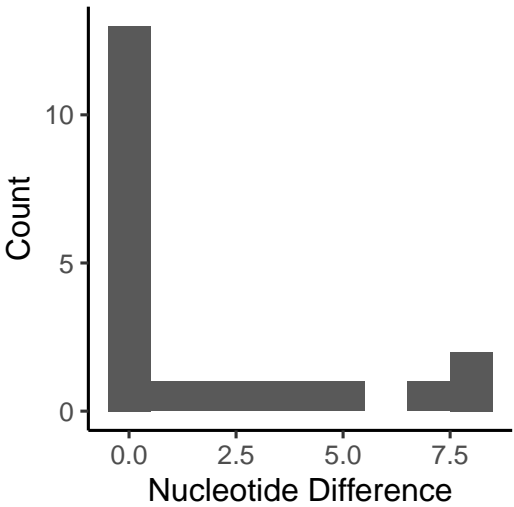
IGKV3D-15\*01

4 sequences assigned  
No exact matches.



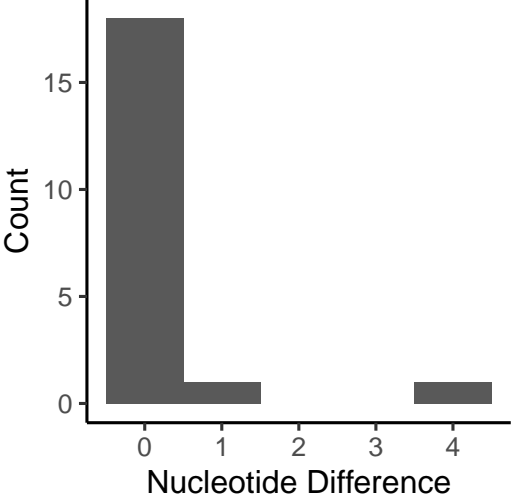
IGKV2D-29\*01

22 sequences assigned  
13 (59.1%) exact matches, in which:  
13 unique CDR3  
4 unique J



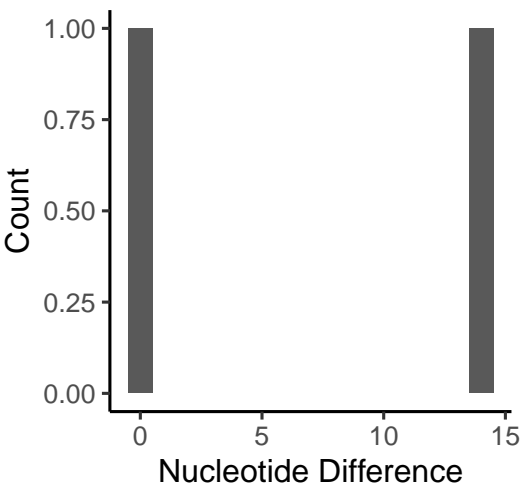
IGKV1D-8\*01

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



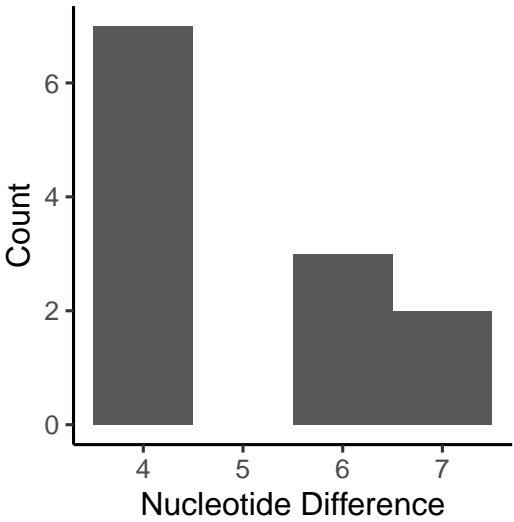
IGKV1D-16\*01

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



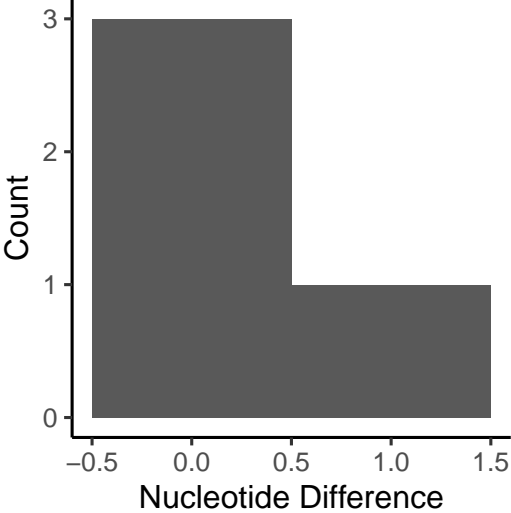
IGKV2D-29\*02

12 sequences assigned  
No exact matches.



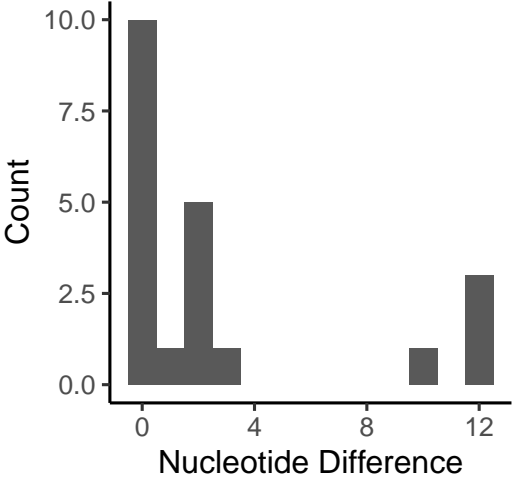
IGKV3D-11\*02

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



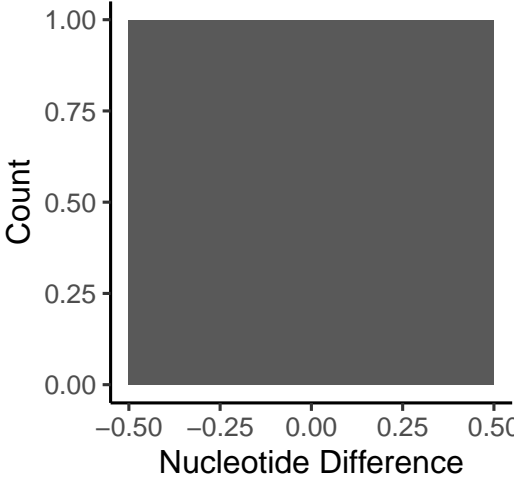
IGKV3D-20\*01

21 sequences assigned  
10 (47.6%) exact matches, in which:  
9 unique CDR3  
3 unique J



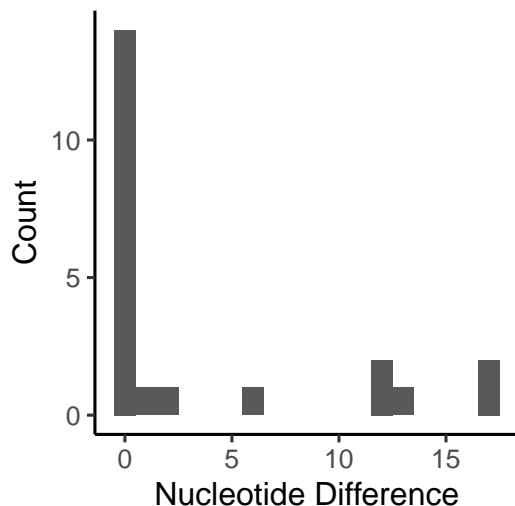
IGKV2D-30\*01

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



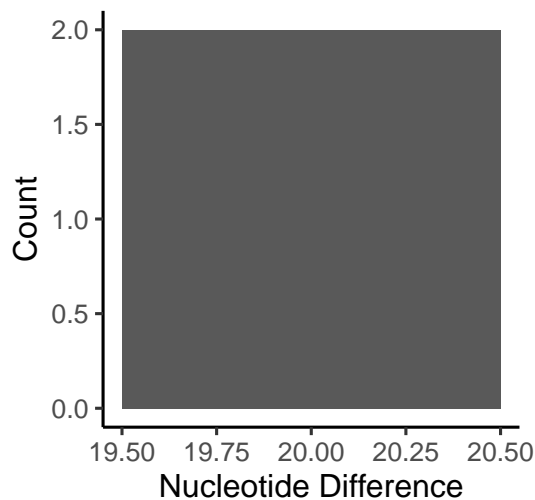
### IGKV1E-12\*01

22 sequences assigned  
14 (63.6%) exact matches, in which:  
11 unique CDR3  
5 unique J



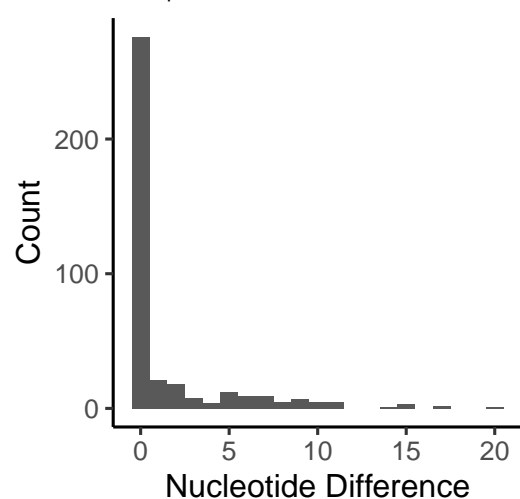
### IGKV1E-13\*02

2 sequences assigned  
No exact matches.



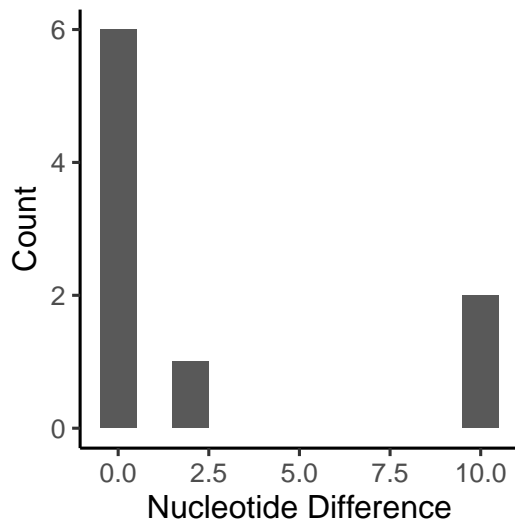
### IGKV2E-28\*01

387 sequences assigned  
276 (71.3%) exact matches, in which:  
234 unique CDR3  
6 unique J



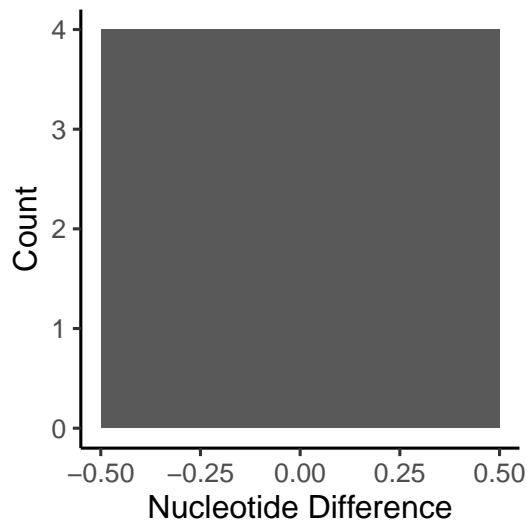
### IGKV1E-12\*02

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



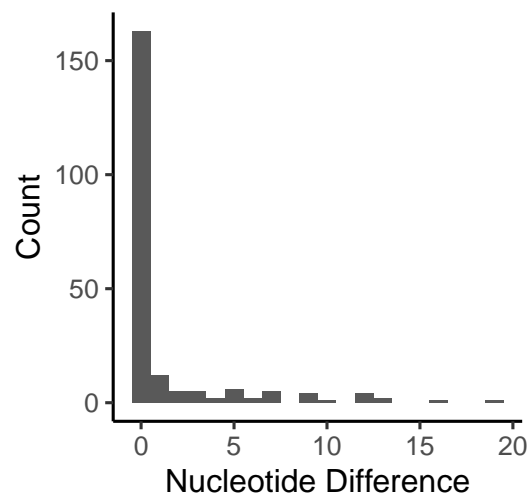
### IGKV1E-13\*03

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



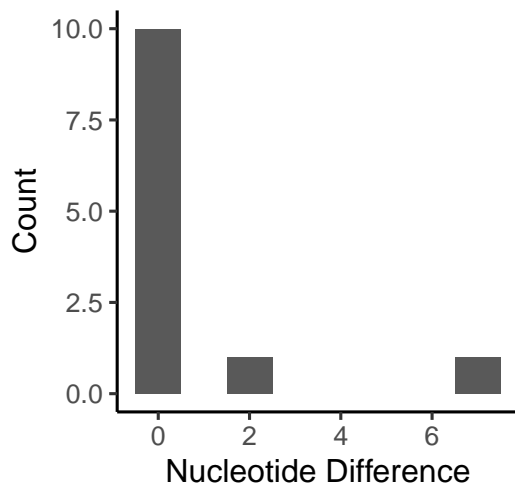
### IGKV1E-33\*01

216 sequences assigned  
163 (75.5%) exact matches, in which:  
140 unique CDR3  
6 unique J



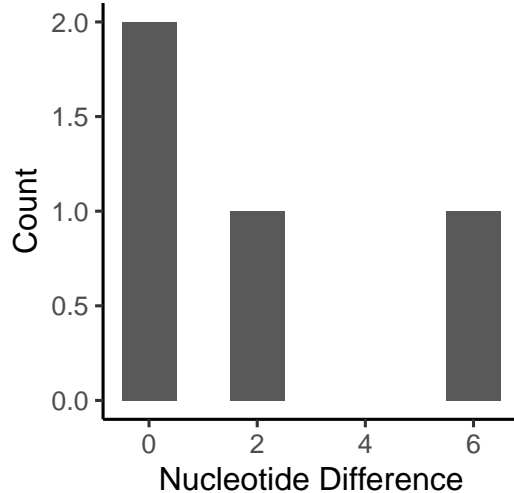
### IGKV1E-12\*03

12 sequences assigned  
10 (83.3%) exact matches, in which:  
10 unique CDR3  
5 unique J



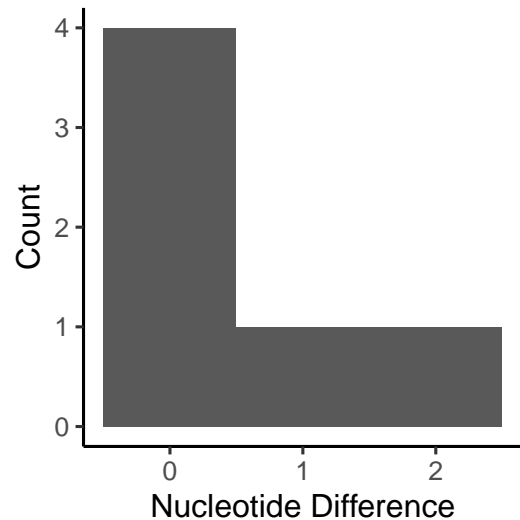
### IGKV6E-21\*01

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



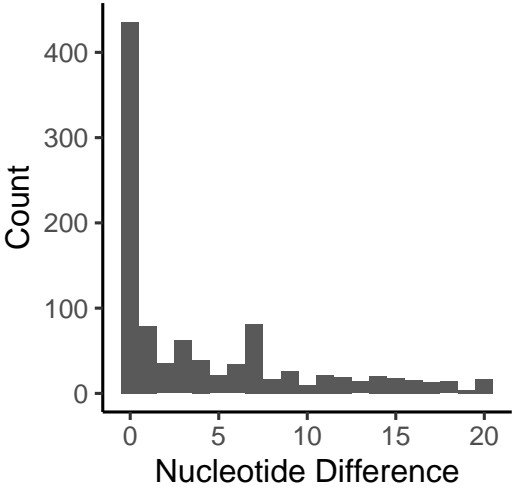
### IGKV1E-37\*01

7 sequences assigned  
4 (57.1%) exact matches, in which:  
4 unique CDR3  
4 unique J



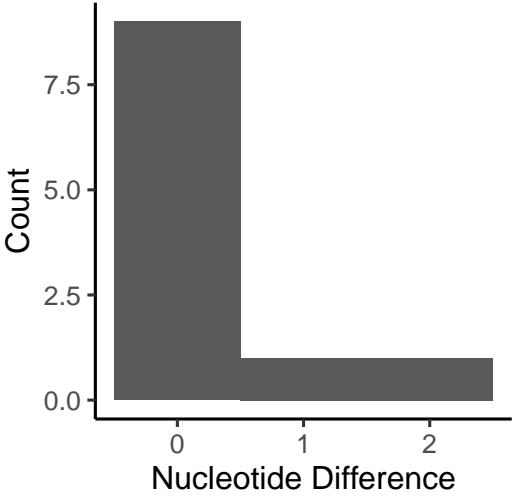
IGKV1E-39\*01

1109 sequences assigned  
436 (39.3%) exact matches, in which:  
324 unique CDR3  
6 unique J

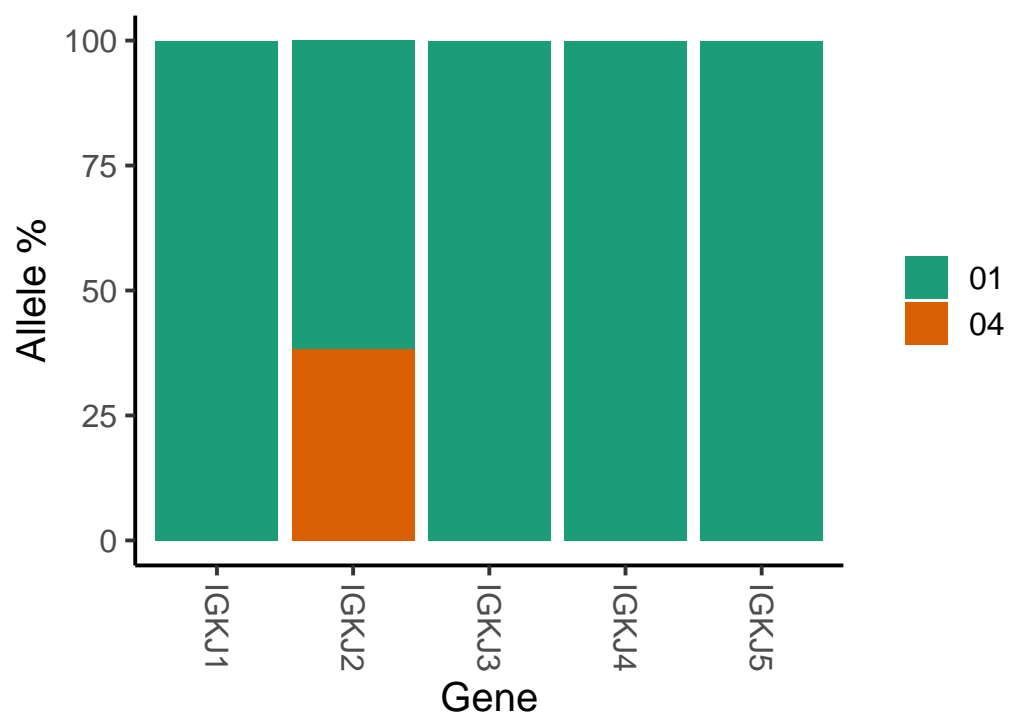


IGKV2E-40\*01

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



Allele Usage



Sequence Count by IGKJ2 allele usage



Warning – no inferred sequences found.