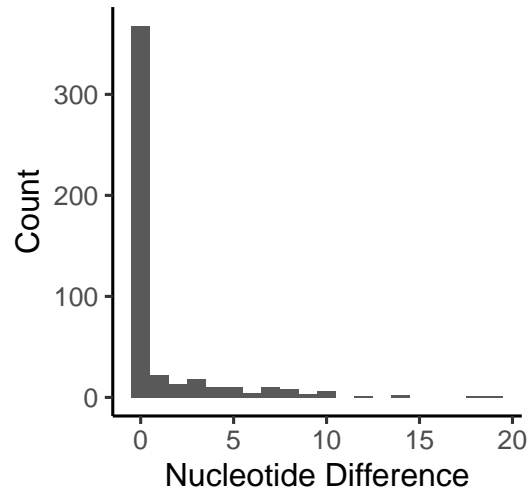


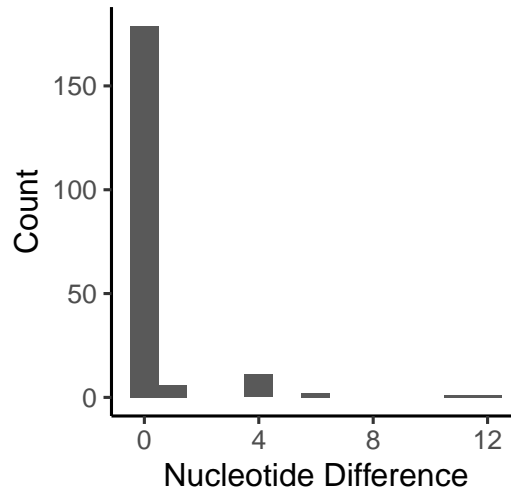
### IGKV1-5\*03

480 sequences assigned  
368 (76.7%) exact matches, in which:  
331 unique CDR3  
5 unique J



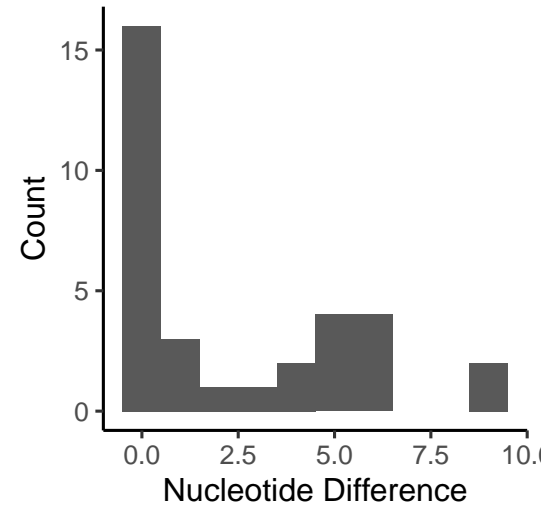
### IGKV1-8\*01

200 sequences assigned  
179 (89.5%) exact matches, in which:  
134 unique CDR3  
5 unique J



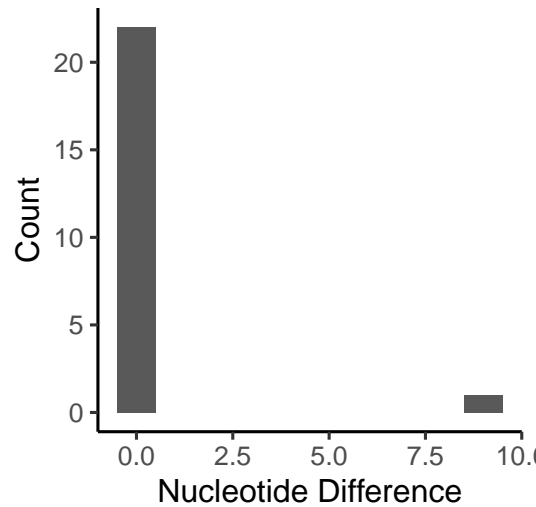
### IGKV1-9\*01\_A270C

34 sequences assigned  
16 (47.1%) exact matches, in which:  
16 unique CDR3  
4 unique J



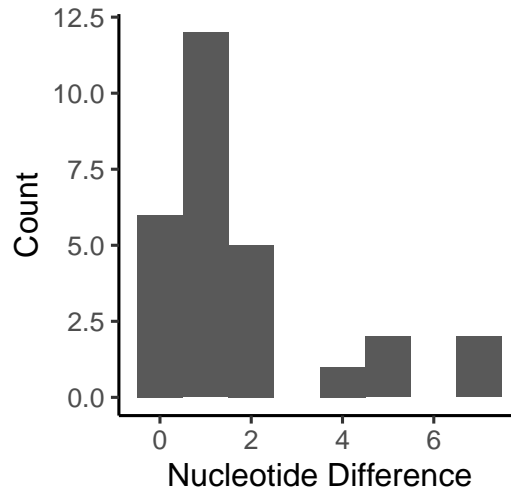
### IGKV1-6\*01

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



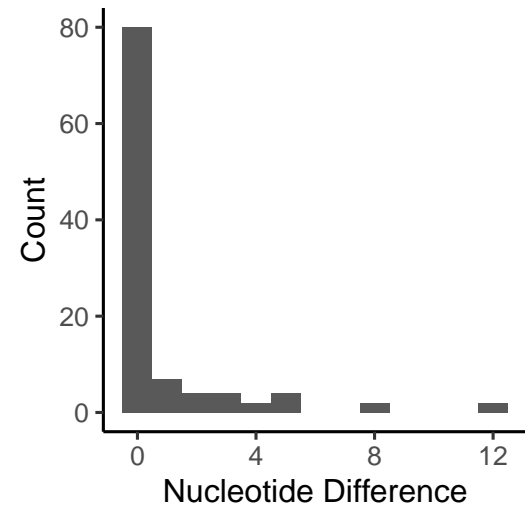
### IGKV1-8\*01\_T277A

28 sequences assigned  
6 (21.4%) exact matches, in which:  
6 unique CDR3  
3 unique J



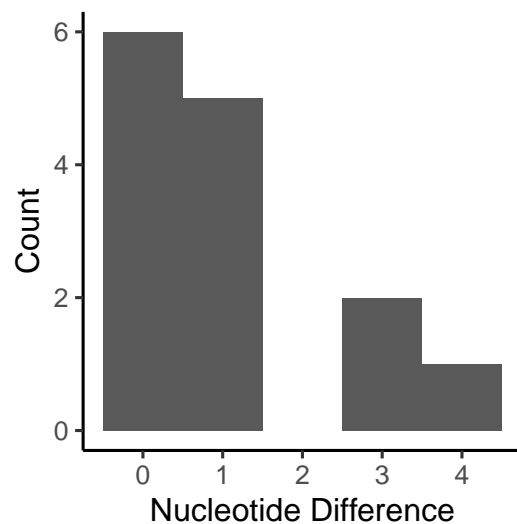
### IGKV1-16\*02

106 sequences assigned  
80 (75.5%) exact matches, in which:  
72 unique CDR3  
5 unique J



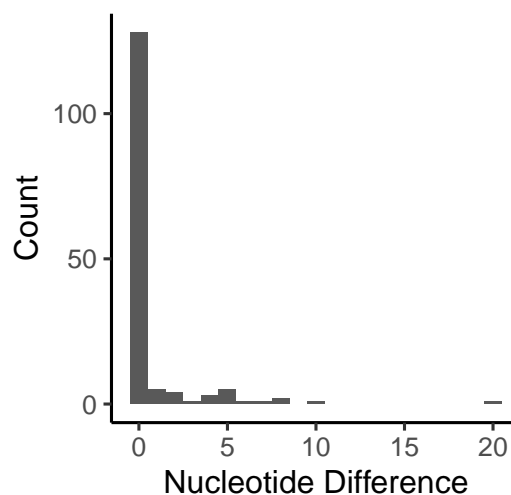
### IGKV1-6\*01\_A318G

14 sequences assigned  
6 (42.9%) exact matches, in which:  
6 unique CDR3  
3 unique J



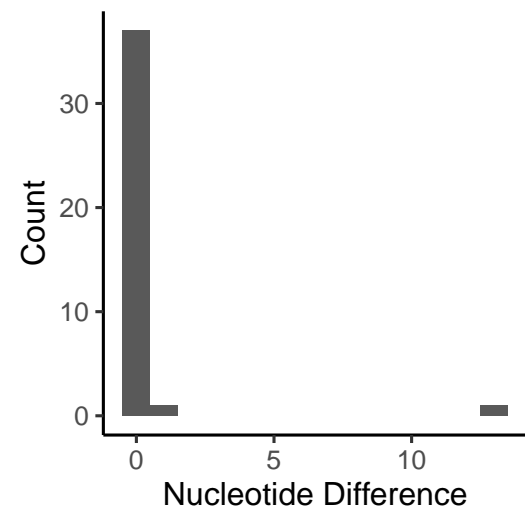
### IGKV1-9\*01

152 sequences assigned  
128 (84.2%) exact matches, in which:  
114 unique CDR3  
5 unique J



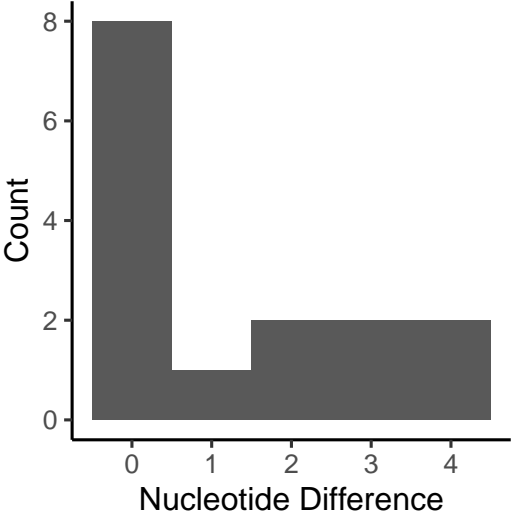
### IGKV1-17\*01

39 sequences assigned  
37 (94.9%) exact matches, in which:  
35 unique CDR3  
5 unique J



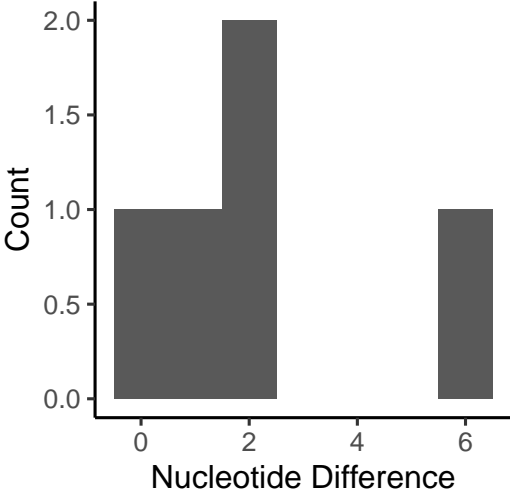
IGKV1-17\*01\_T314A

15 sequences assigned  
8 (53.3%) exact matches, in which:  
8 unique CDR3  
4 unique J



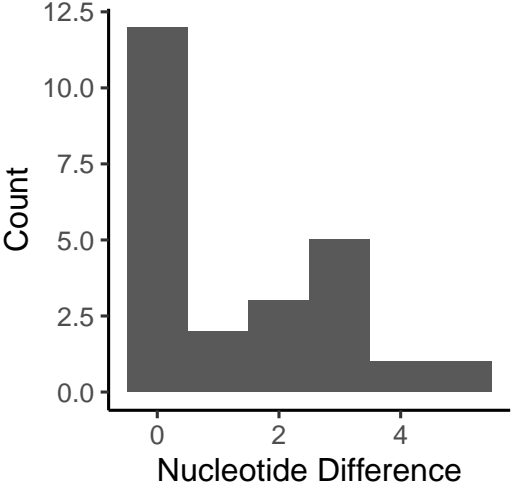
IGKV2/OR22-4\*01

5 sequences assigned  
1 (20%) exact matches, in which:  
1 unique CDR3  
1 unique J



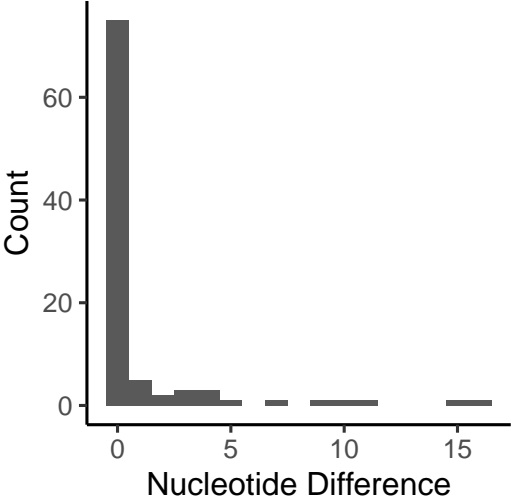
IGKV2-24\*01

24 sequences assigned  
12 (50%) exact matches, in which:  
12 unique CDR3  
4 unique J



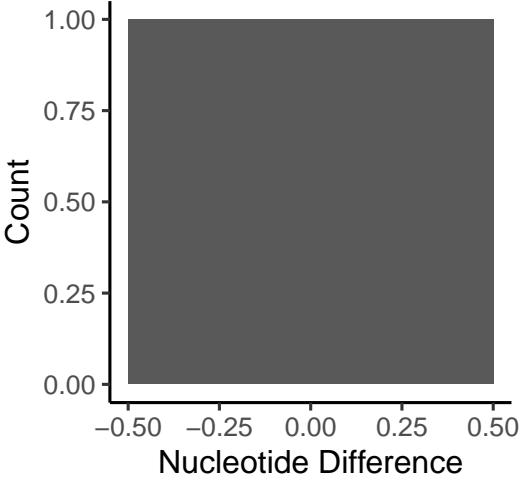
IGKV1-27\*01

95 sequences assigned  
75 (78.9%) exact matches, in which:  
60 unique CDR3  
5 unique J



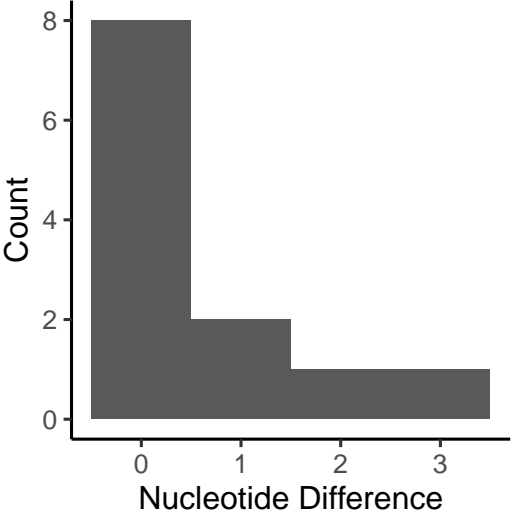
IGKV2-4\*01

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



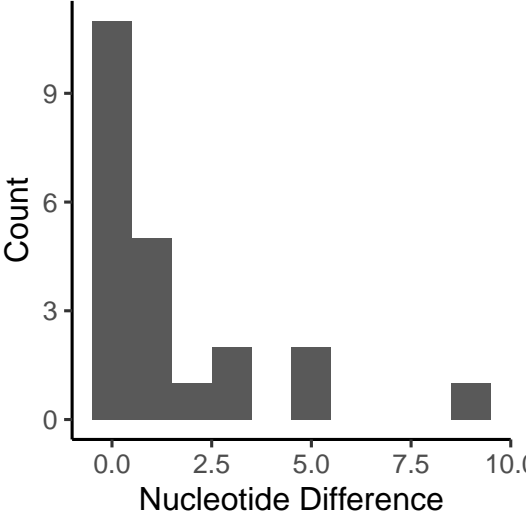
IGKV2-29\*03

12 sequences assigned  
8 (66.7%) exact matches, in which:  
8 unique CDR3  
3 unique J



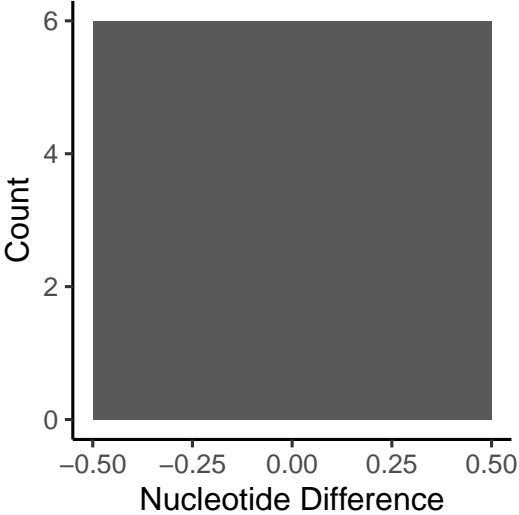
IGKV1-27\*01\_A316C

25 sequences assigned  
11 (44%) exact matches, in which:  
11 unique CDR3  
5 unique J



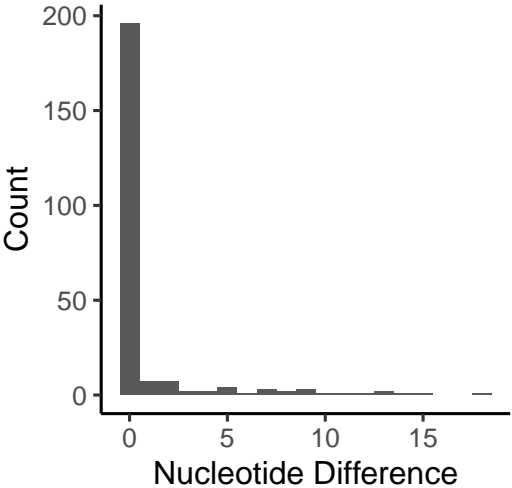
IGKV2-18\*01

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



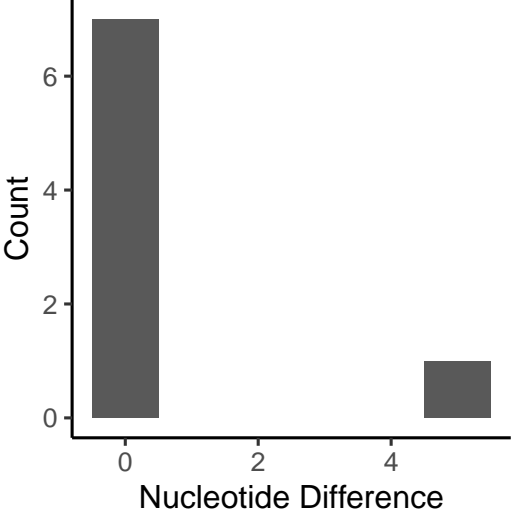
IGKV2-30\*01

235 sequences assigned  
196 (83.4%) exact matches, in which:  
171 unique CDR3  
5 unique J



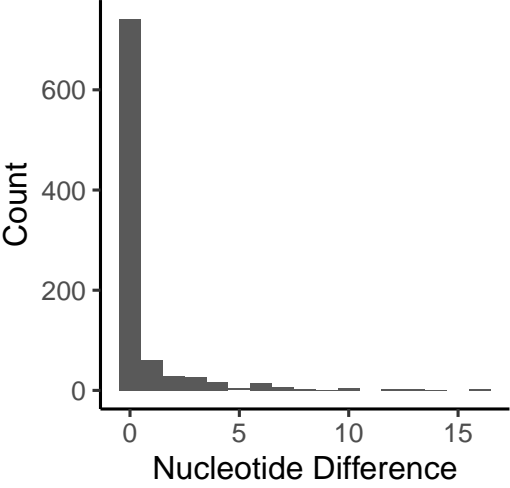
IGKV3-7\*04

8 sequences assigned  
7 (87.5%) exact matches, in which:  
7 unique CDR3  
3 unique J



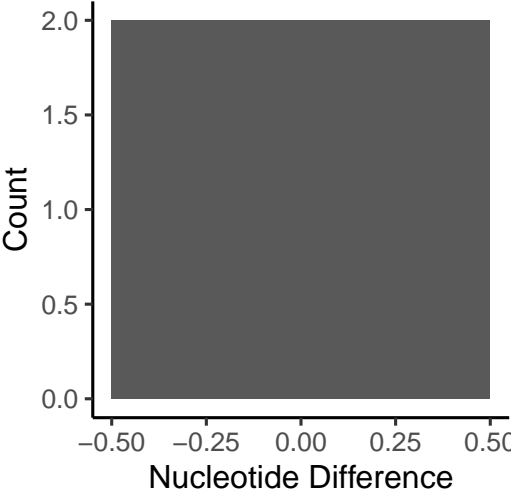
IGKV3-20\*01

916 sequences assigned  
742 (81%) exact matches, in which:  
605 unique CDR3  
5 unique J



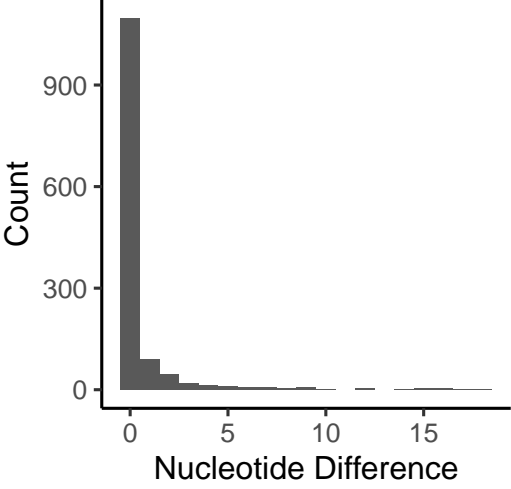
IGKV7-3\*01

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



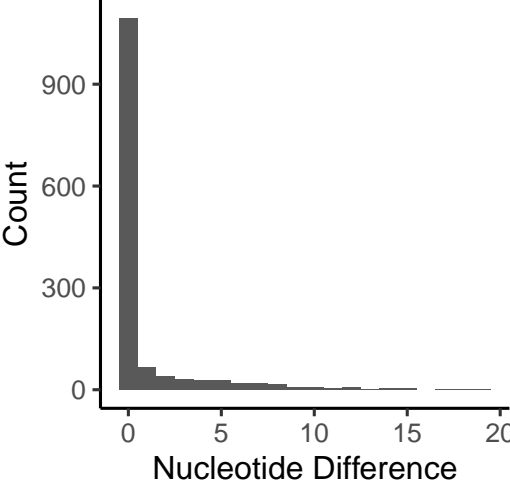
IGKV3-11\*01

1320 sequences assigned  
1098 (83.2%) exact matches, in which:  
800 unique CDR3  
5 unique J



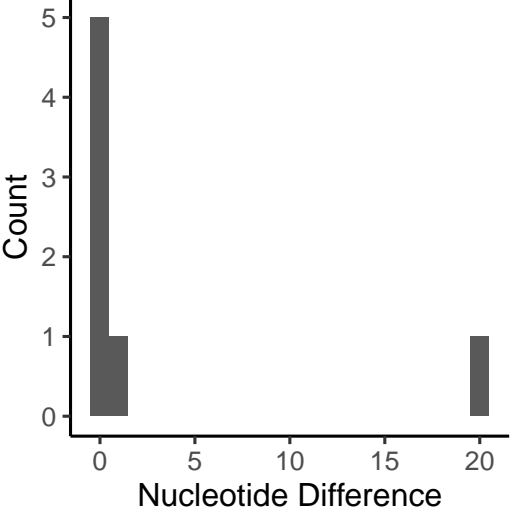
IGKV4-1\*01

1381 sequences assigned  
1095 (79.3%) exact matches, in which:  
606 unique CDR3  
5 unique J



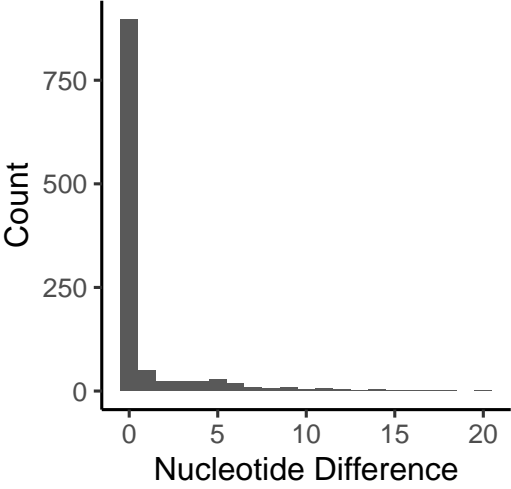
IGKV3D-7\*01

7 sequences assigned  
5 (71.4%) exact matches, in which:  
5 unique CDR3  
2 unique J



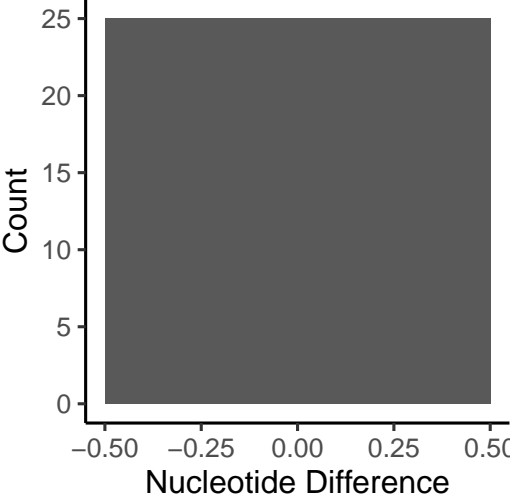
IGKV3-15\*01

1110 sequences assigned  
897 (80.8%) exact matches, in which:  
681 unique CDR3  
5 unique J



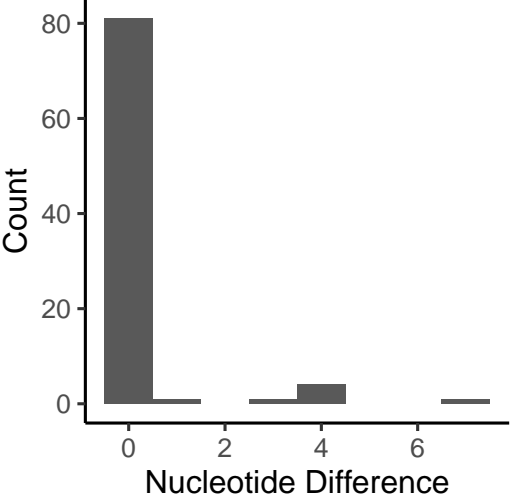
IGKV5-2\*01

25 sequences assigned  
25 (100%) exact matches, in which:  
21 unique CDR3  
4 unique J



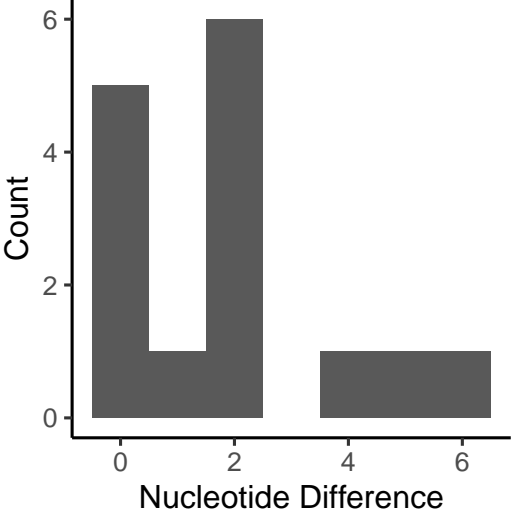
IGKV1D-8\*01

88 sequences assigned  
81 (92%) exact matches, in which:  
64 unique CDR3  
5 unique J



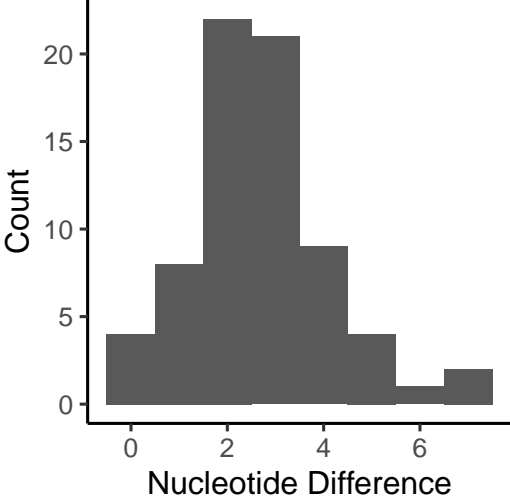
IGKV1D-8\*03

15 sequences assigned  
5 (33.3%) exact matches, in which:  
4 unique CDR3  
2 unique J



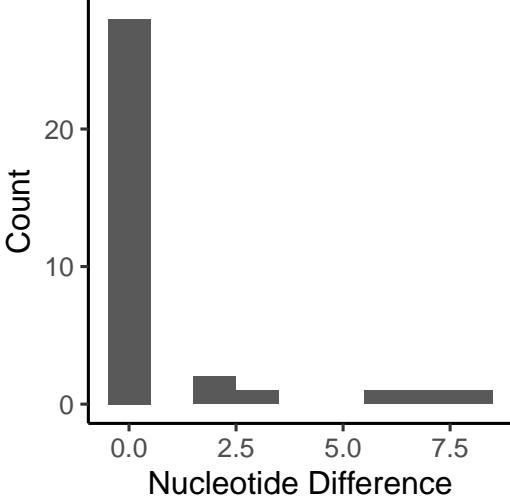
IGKV3D-11\*02\_T112A\_A

71 sequences assigned  
4 (5.6%) exact matches, in which:  
4 unique CDR3  
3 unique J



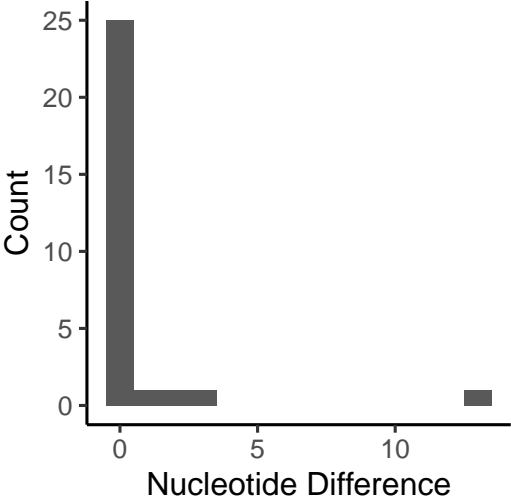
IGKV1D-16\*01

34 sequences assigned  
28 (82.4%) exact matches, in which:  
26 unique CDR3  
5 unique J



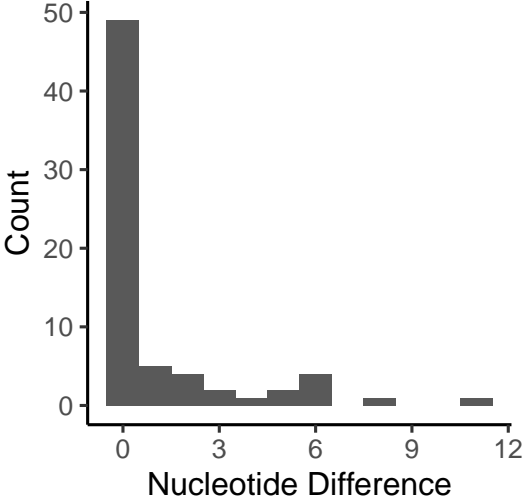
IGKV3D-11\*01

29 sequences assigned  
25 (86.2%) exact matches, in which:  
25 unique CDR3  
4 unique J



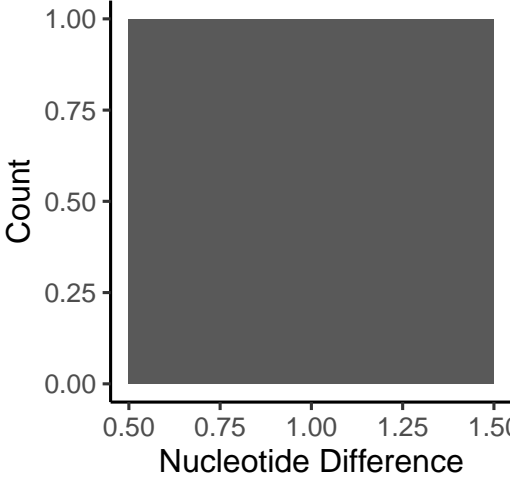
IGKV3D-15\*01

69 sequences assigned  
49 (71%) exact matches, in which:  
46 unique CDR3  
5 unique J



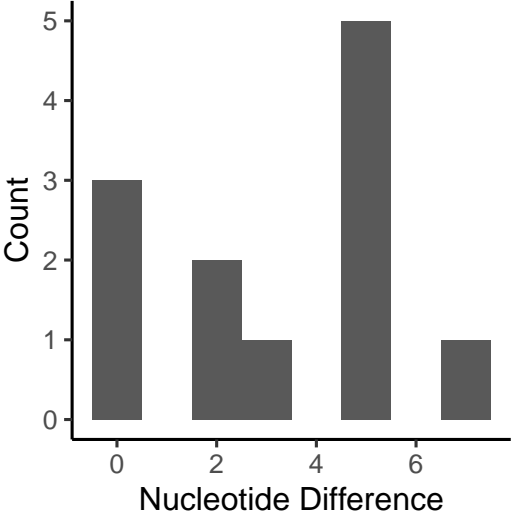
IGKV1D-17\*01

1 sequences assigned  
No exact matches.



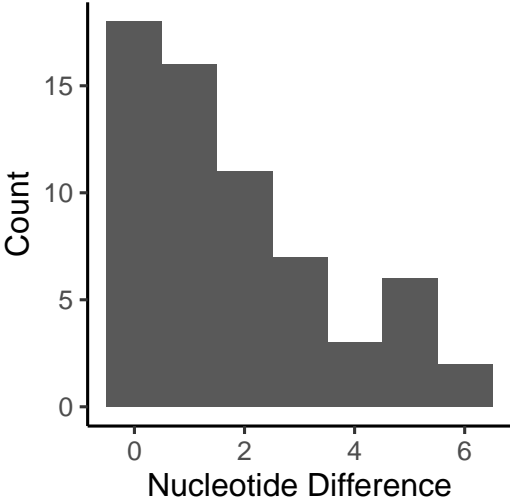
IGKV3D-11\*02\_C247T

14 sequences assigned  
3 (21.4%) exact matches, in which:  
3 unique CDR3  
2 unique J



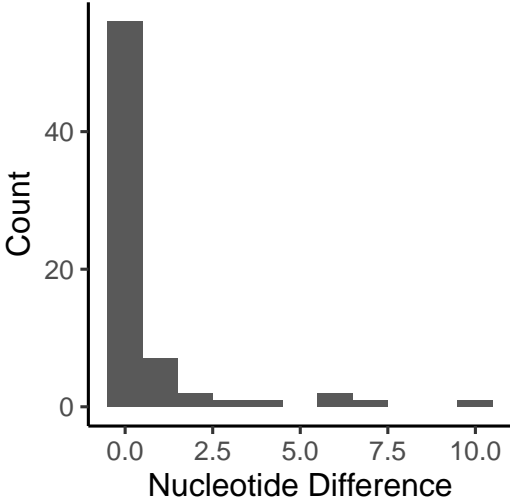
IGKV3D-15\*01\_G258C\_C

63 sequences assigned  
18 (28.6%) exact matches, in which:  
18 unique CDR3  
5 unique J



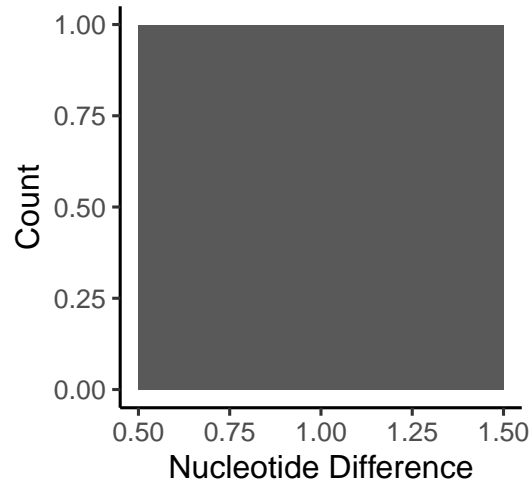
IGKV3D-20\*01

71 sequences assigned  
56 (78.9%) exact matches, in which:  
54 unique CDR3  
5 unique J



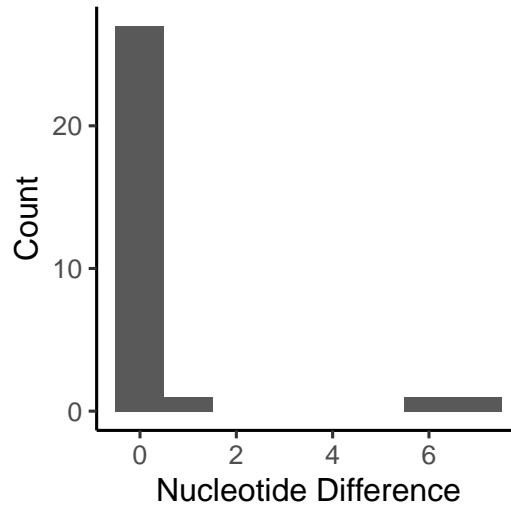
### IGKV2D-24\*01

1 sequences assigned  
No exact matches.



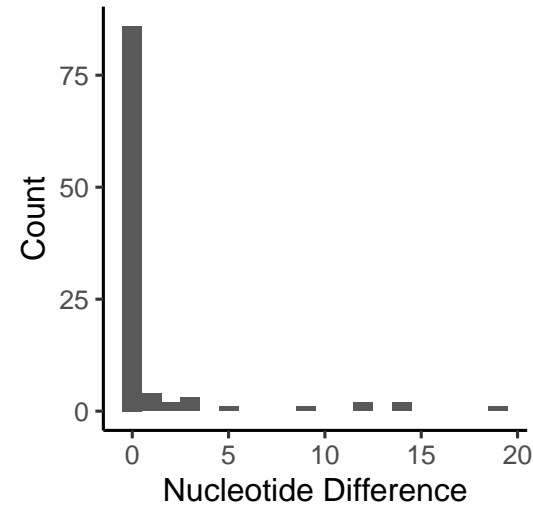
### IGKV2D-30\*01

30 sequences assigned  
27 (90%) exact matches, in which:  
27 unique CDR3  
5 unique J



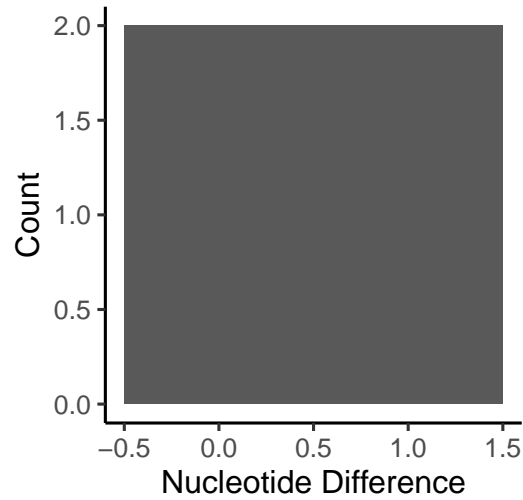
### IGKV1E-12\*01

102 sequences assigned  
86 (84.3%) exact matches, in which:  
68 unique CDR3  
5 unique J



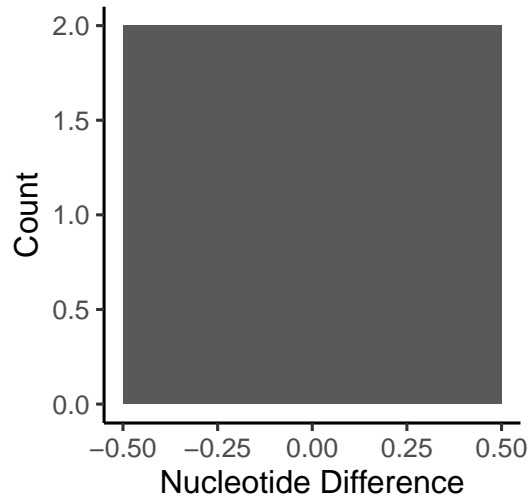
### IGKV2D-26\*03

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



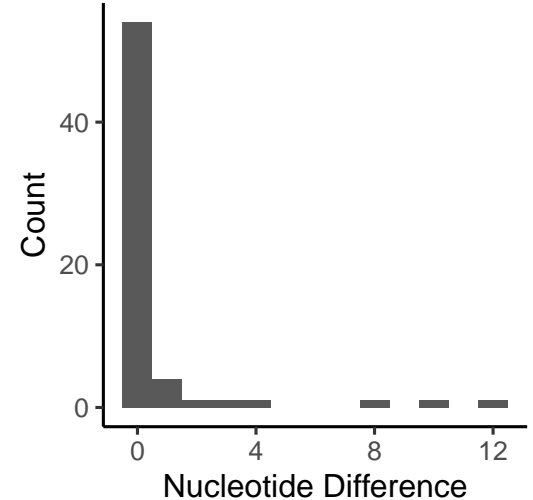
### IGKV6D-41\*01

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



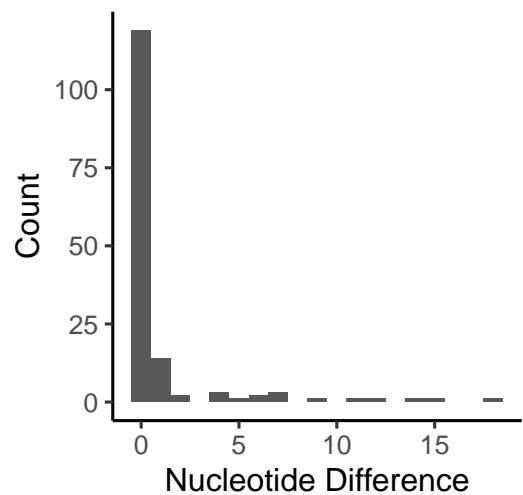
### IGKV1E-12\*03

65 sequences assigned  
54 (83.1%) exact matches, in which:  
48 unique CDR3  
5 unique J



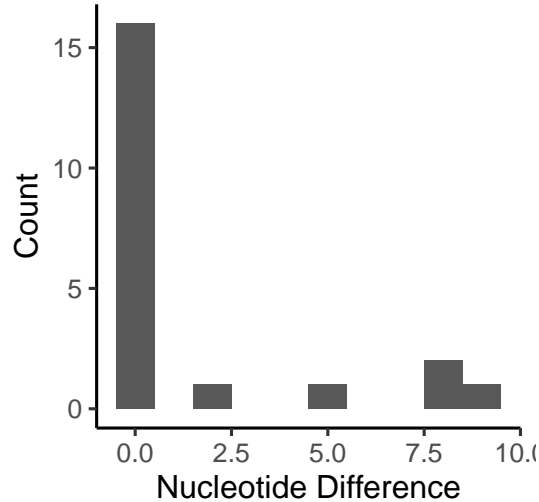
### IGKV2D-29\*01

150 sequences assigned  
119 (79.3%) exact matches, in which:  
108 unique CDR3  
5 unique J



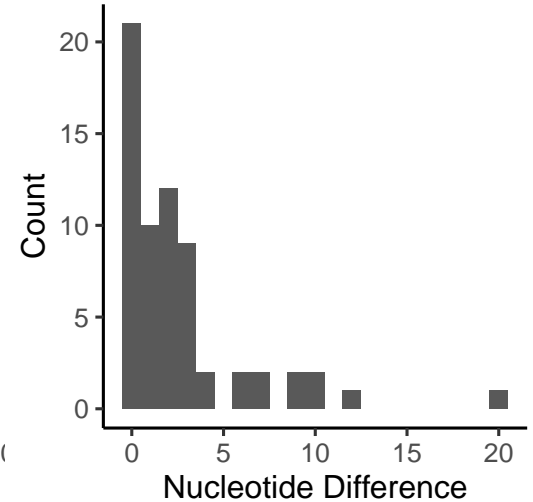
### IGKV1D-43\*01

21 sequences assigned  
16 (76.2%) exact matches, in which:  
15 unique CDR3  
4 unique J



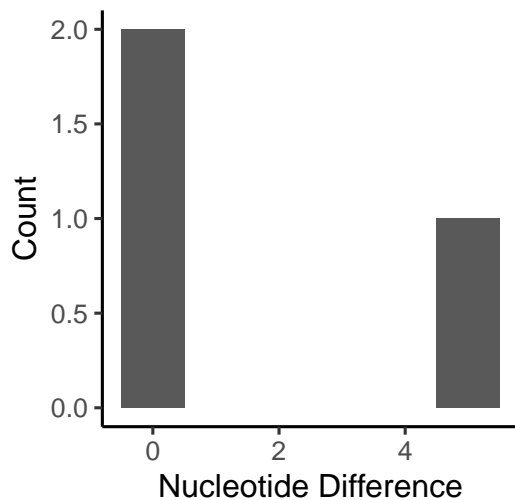
### IGKV1E-12\*01\_T309C

64 sequences assigned  
21 (32.8%) exact matches, in which:  
21 unique CDR3  
5 unique J



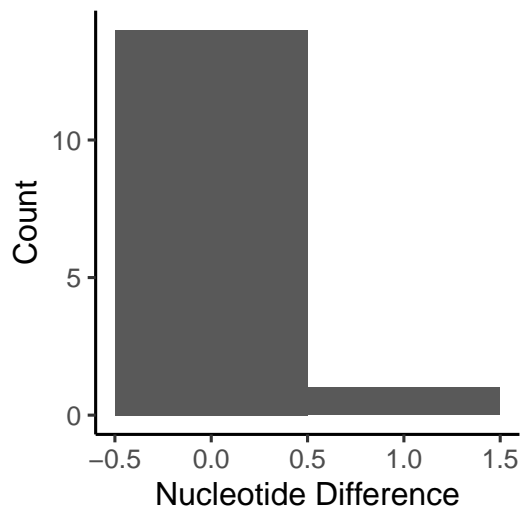
### IGKV1E-13\*02

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



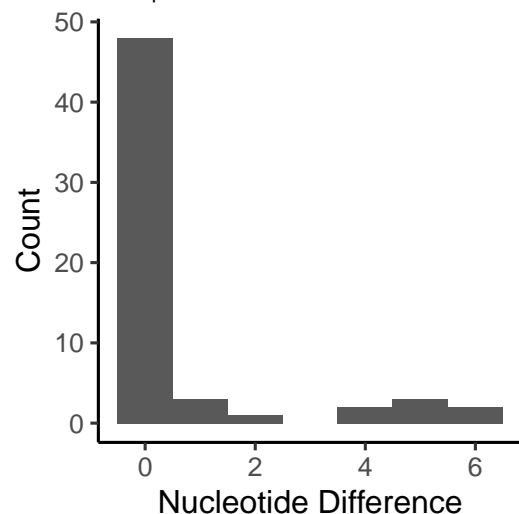
### IGKV6E-21\*03

15 sequences assigned  
14 (93.3%) exact matches, in which:  
14 unique CDR3  
5 unique J



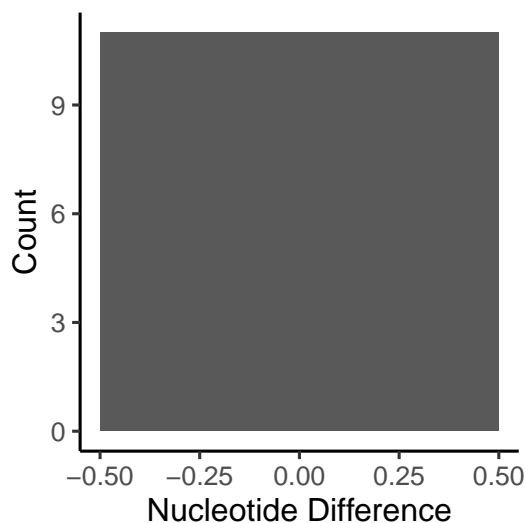
### IGKV1E-37\*01

60 sequences assigned  
48 (80%) exact matches, in which:  
46 unique CDR3  
5 unique J



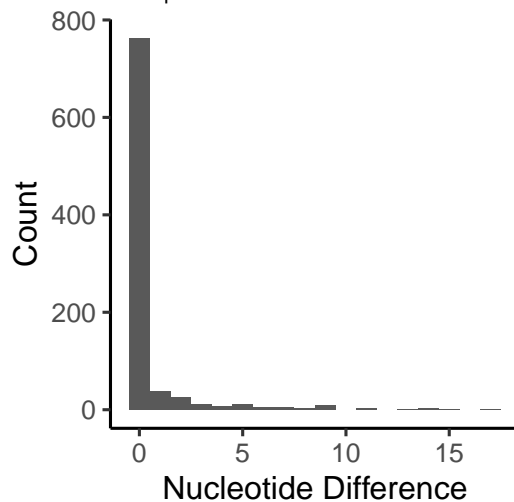
### IGKV1E-13\*03

11 sequences assigned  
11 (100%) exact matches, in which:  
11 unique CDR3  
4 unique J



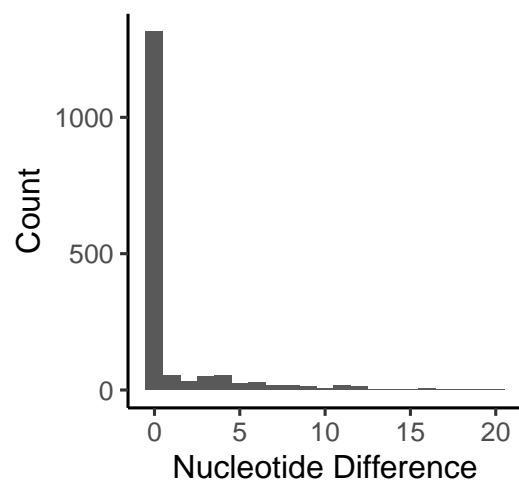
### IGKV2E-28\*01

895 sequences assigned  
763 (85.3%) exact matches, in which:  
541 unique CDR3  
5 unique J



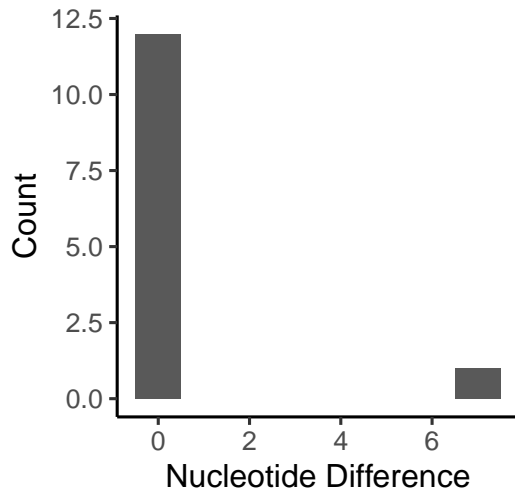
### IGKV1E-39\*01

1663 sequences assigned  
1314 (79%) exact matches, in which:  
837 unique CDR3  
5 unique J



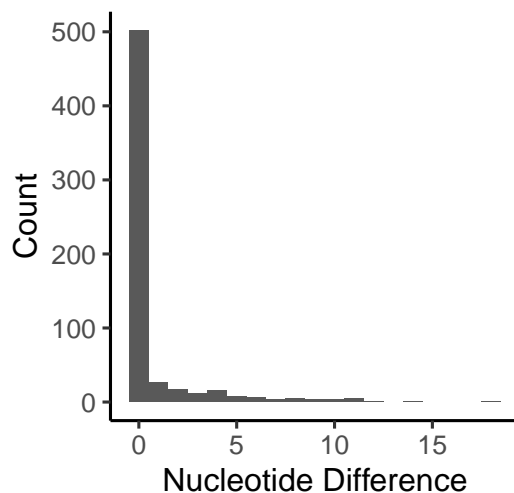
### IGKV6E-21\*01

13 sequences assigned  
12 (92.3%) exact matches, in which:  
10 unique CDR3  
5 unique J



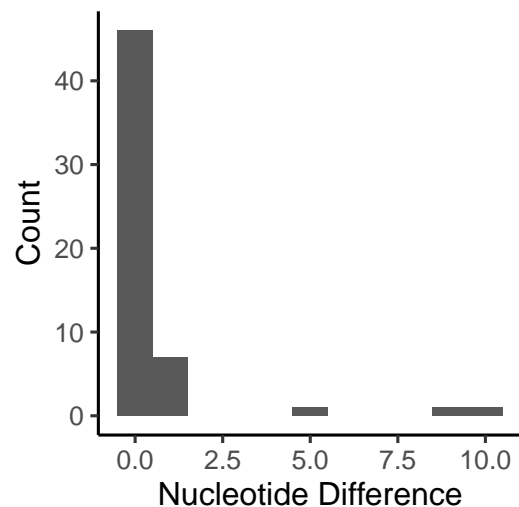
### IGKV1E-33\*01

614 sequences assigned  
502 (81.8%) exact matches, in which:  
369 unique CDR3  
5 unique J



### IGKV2E-40\*01

56 sequences assigned  
46 (82.1%) exact matches, in which:  
43 unique CDR3  
5 unique J





Warning – no inferred sequences found.