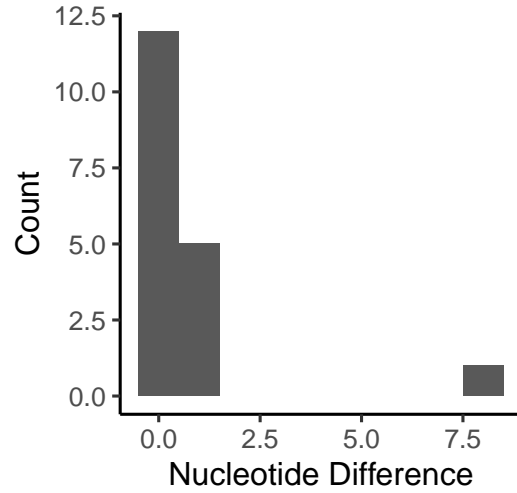


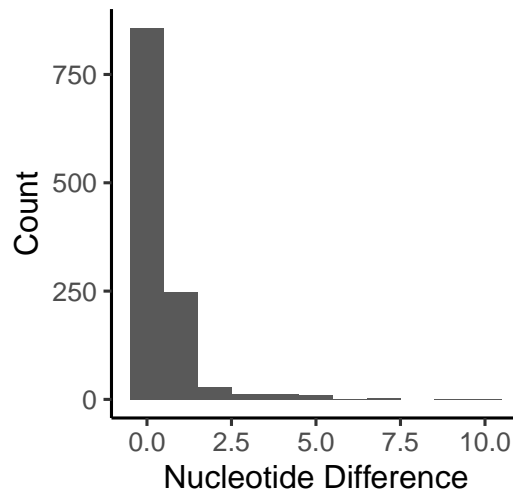
### IGLV10-54\*01

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



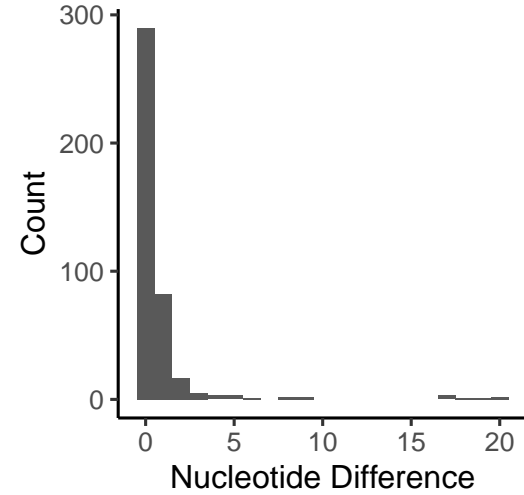
### IGLV1-40\*01

1177 sequences assigned  
858 (72.9%) exact matches, in which:  
679 unique CDR3  
4 unique J



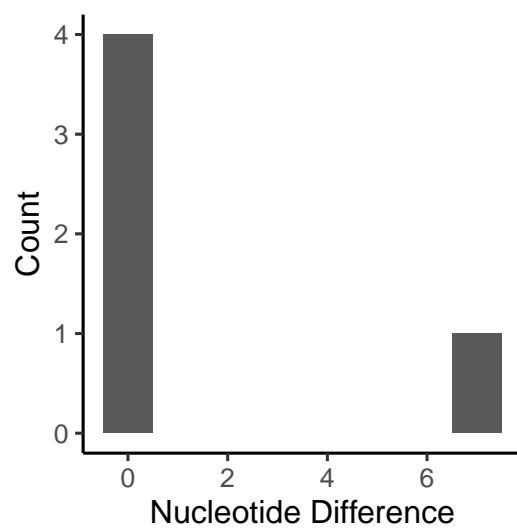
### IGLV1-47\*01

424 sequences assigned  
290 (68.4%) exact matches, in which:  
239 unique CDR3  
4 unique J



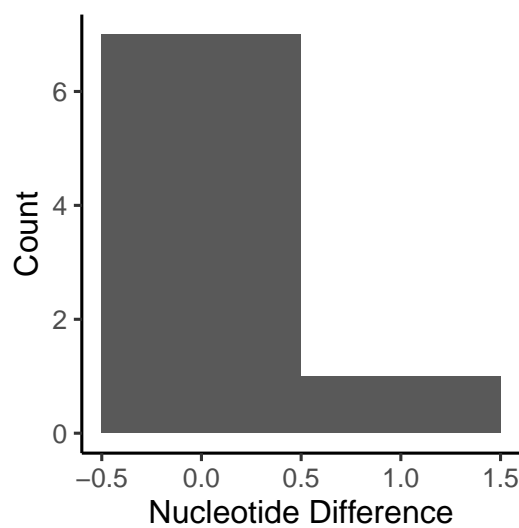
### IGLV10-54\*02

5 sequences assigned  
4 (80%) exact matches, in which:  
4 unique CDR3  
2 unique J



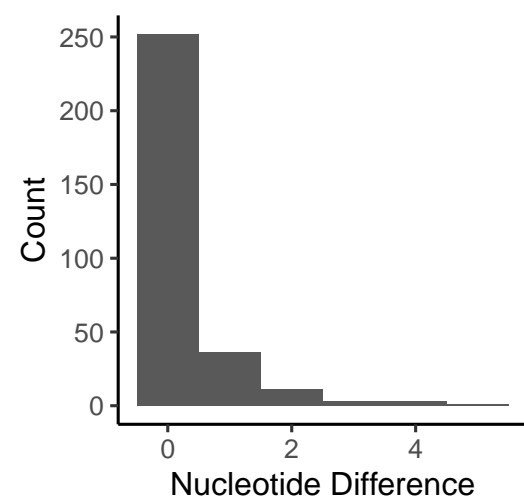
### IGLV1-41\*01

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



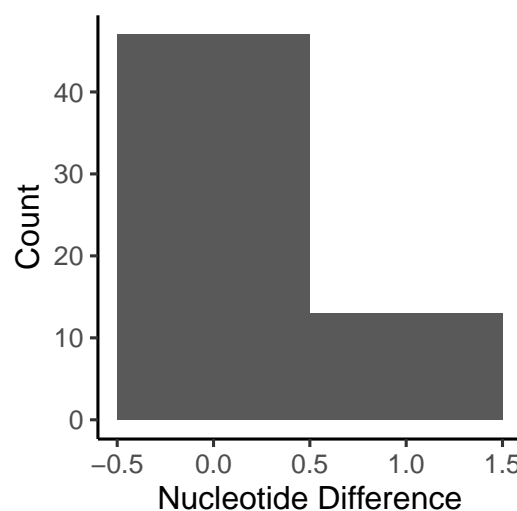
### IGLV1-51\*01

306 sequences assigned  
252 (82.4%) exact matches, in which:  
177 unique CDR3  
4 unique J



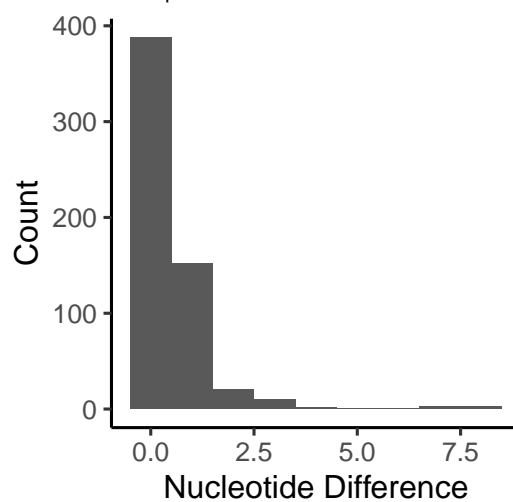
### IGLV1-36\*01

60 sequences assigned  
47 (78.3%) exact matches, in which:  
40 unique CDR3  
3 unique J



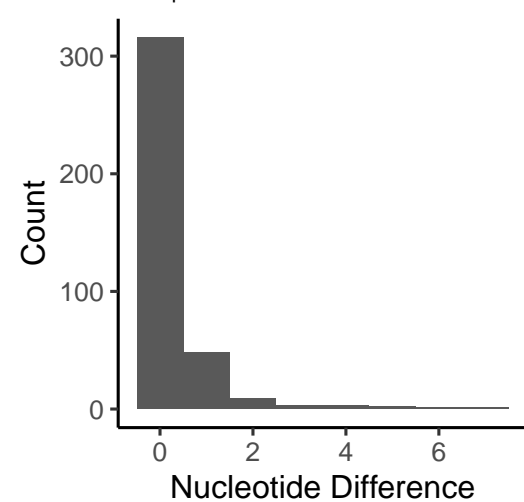
### IGLV1-44\*01

580 sequences assigned  
388 (66.9%) exact matches, in which:  
296 unique CDR3  
4 unique J



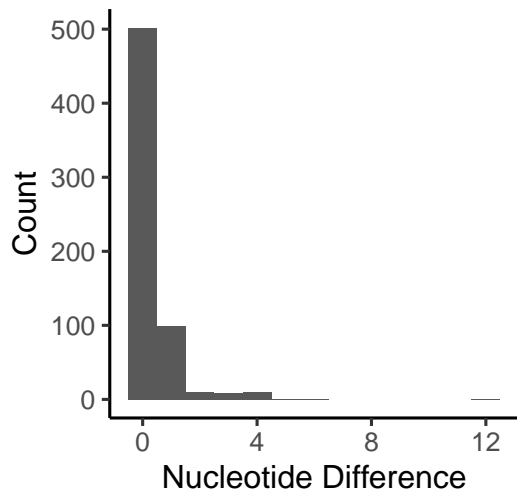
### IGLV2-8\*01

383 sequences assigned  
316 (82.5%) exact matches, in which:  
262 unique CDR3  
4 unique J



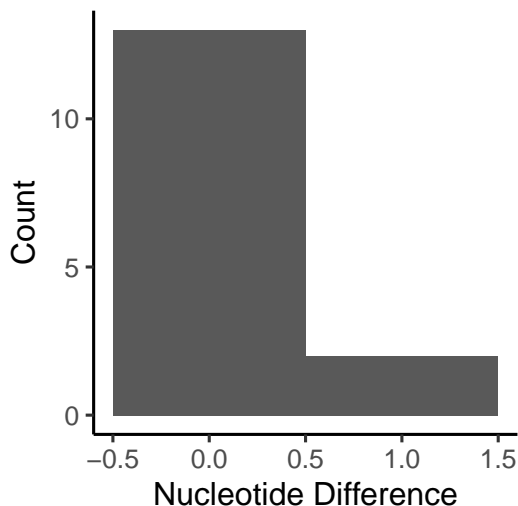
### IGLV2-11\*01

633 sequences assigned  
502 (79.3%) exact matches, in which:  
387 unique CDR3  
4 unique J



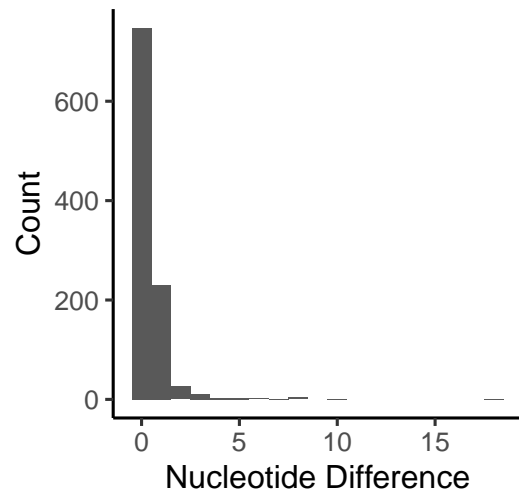
### IGLV2-18\*01

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



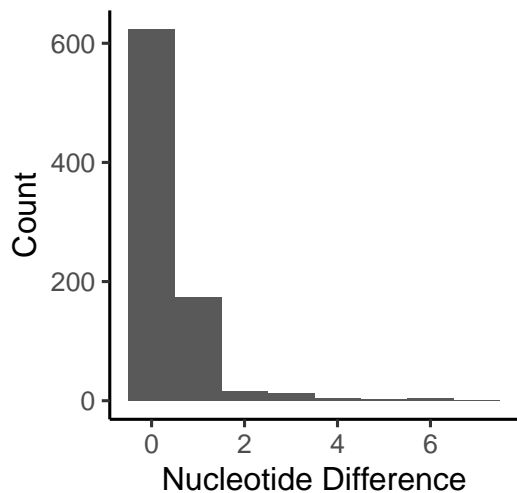
### IGLV3-1\*01

1031 sequences assigned  
748 (72.6%) exact matches, in which:  
574 unique CDR3  
3 unique J



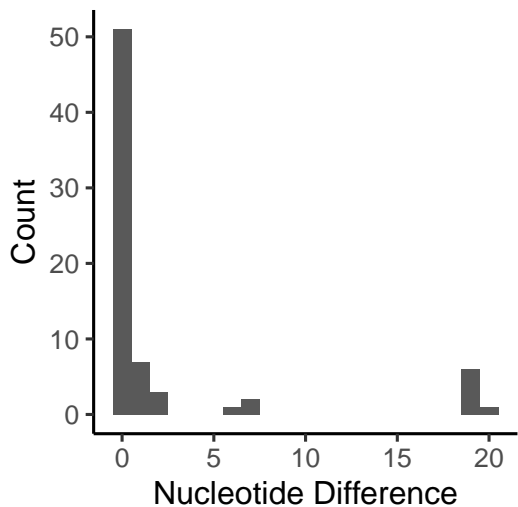
### IGLV2-14\*01

838 sequences assigned  
624 (74.5%) exact matches, in which:  
538 unique CDR3  
3 unique J



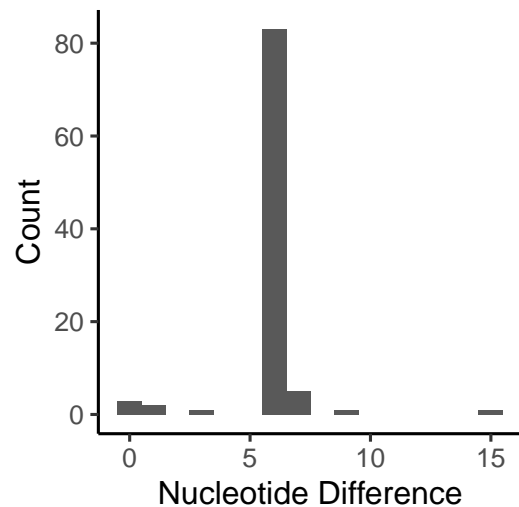
### IGLV2-18\*02

72 sequences assigned  
51 (70.8%) exact matches, in which:  
36 unique CDR3  
3 unique J



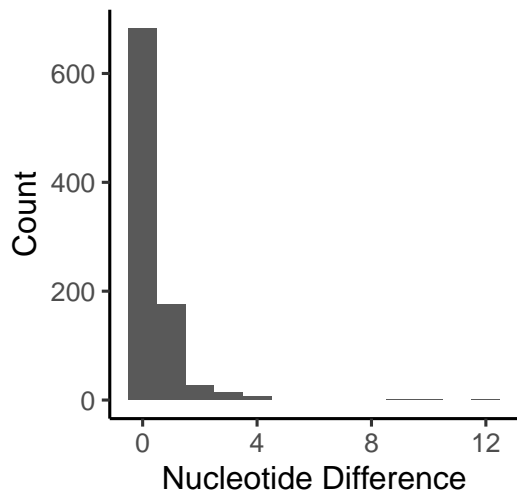
### IGLV3-9\*02

96 sequences assigned  
3 (3.1%) exact matches, in which:  
3 unique CDR3  
1 unique J



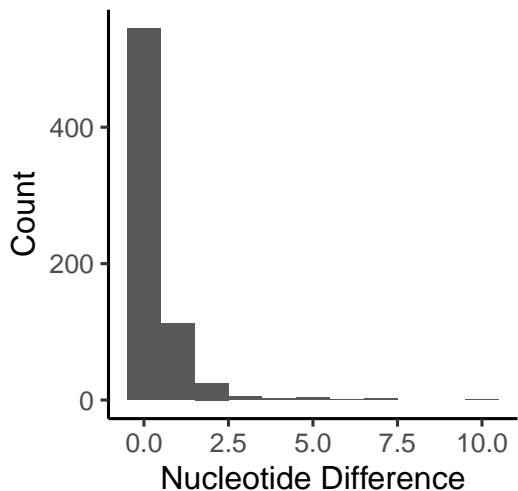
### IGLV2-14\*04EXT3

909 sequences assigned  
683 (75.1%) exact matches, in which:  
578 unique CDR3  
4 unique J



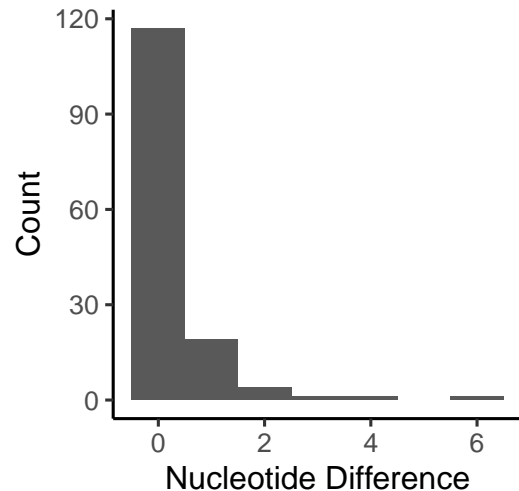
### IGLV2-23\*01

697 sequences assigned  
545 (78.2%) exact matches, in which:  
471 unique CDR3  
4 unique J



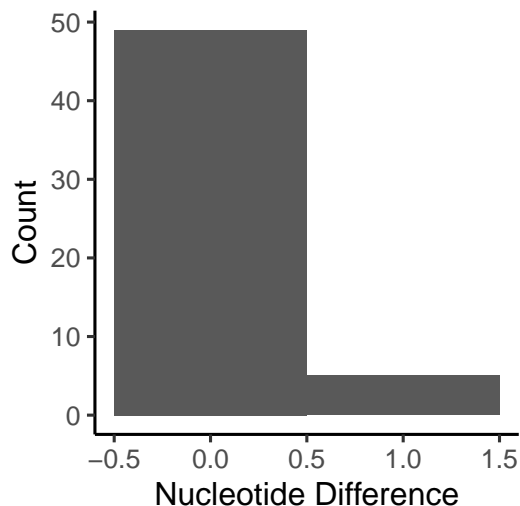
### IGLV3-10\*01

143 sequences assigned  
117 (81.8%) exact matches, in which:  
108 unique CDR3  
4 unique J



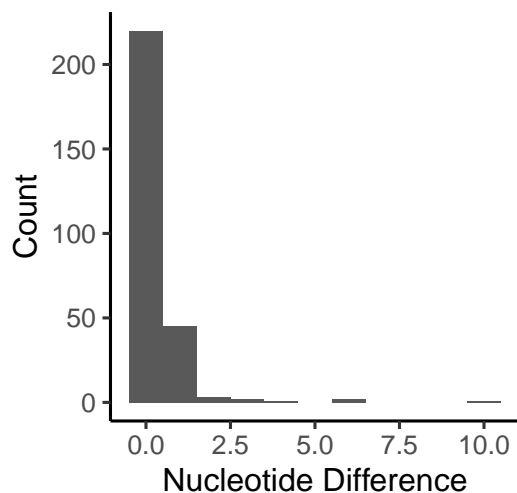
### IGLV3-16\*01

54 sequences assigned  
49 (90.7%) exact matches, in which:  
48 unique CDR3  
4 unique J



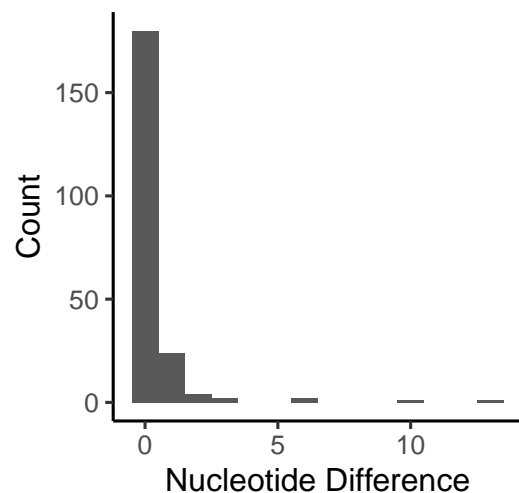
### IGLV3-21\*04

274 sequences assigned  
220 (80.3%) exact matches, in which:  
197 unique CDR3  
4 unique J



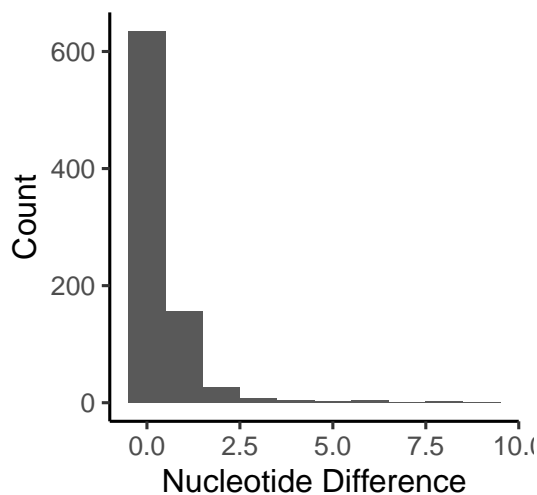
### IGLV3-25\*03

214 sequences assigned  
180 (84.1%) exact matches, in which:  
162 unique CDR3  
4 unique J



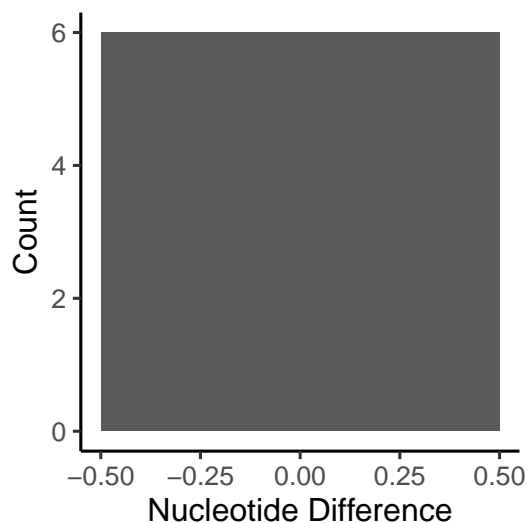
### IGLV3-19\*01

841 sequences assigned  
635 (75.5%) exact matches, in which:  
479 unique CDR3  
4 unique J



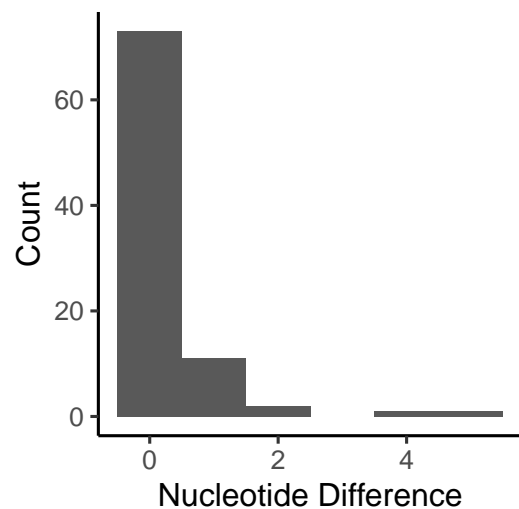
### IGLV3-22\*01

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



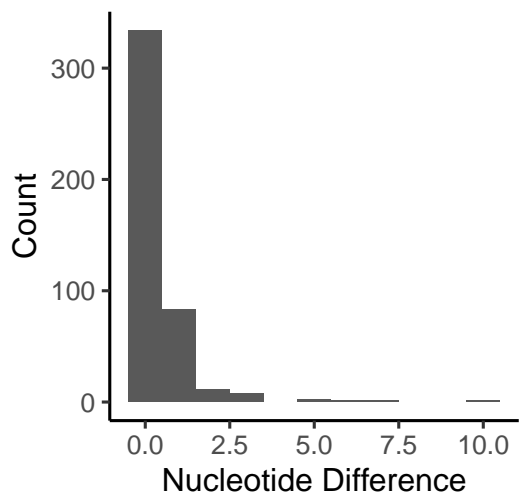
### IGLV3-27\*01

88 sequences assigned  
73 (83%) exact matches, in which:  
70 unique CDR3  
3 unique J



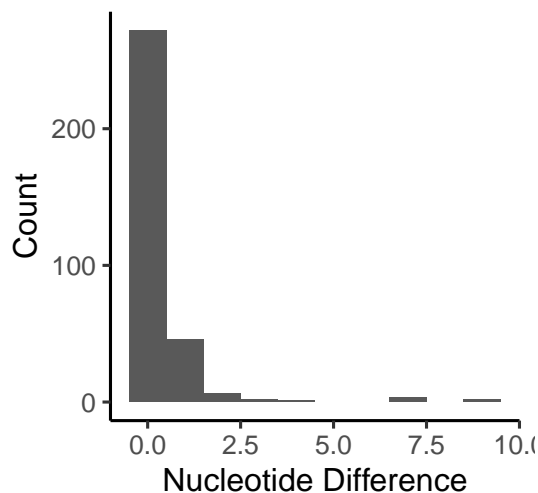
### IGLV3-21\*02

441 sequences assigned  
334 (75.7%) exact matches, in which:  
293 unique CDR3  
5 unique J



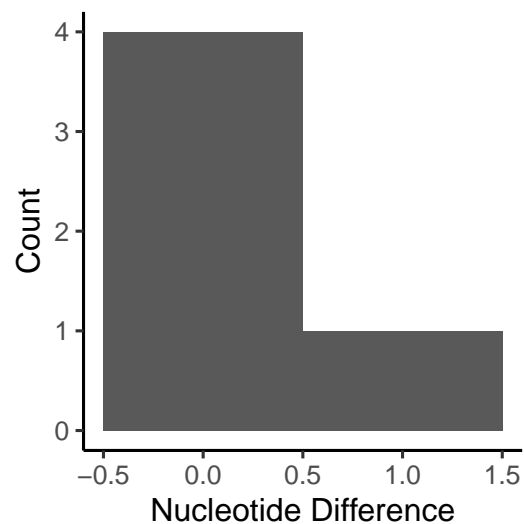
### IGLV3-25\*02

332 sequences assigned  
272 (81.9%) exact matches, in which:  
235 unique CDR3  
5 unique J



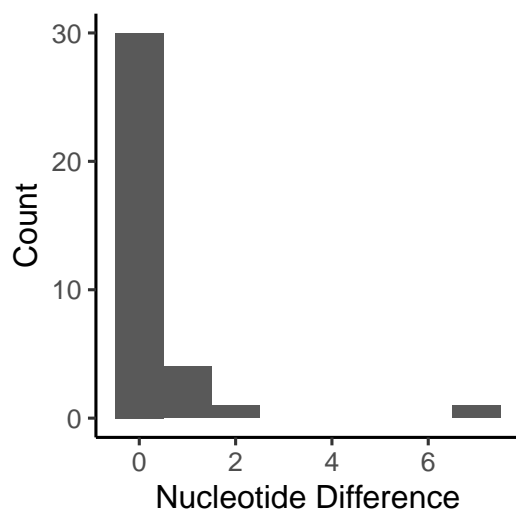
### IGLV4-3\*01

5 sequences assigned  
4 (80%) exact matches, in which:  
4 unique CDR3  
2 unique J



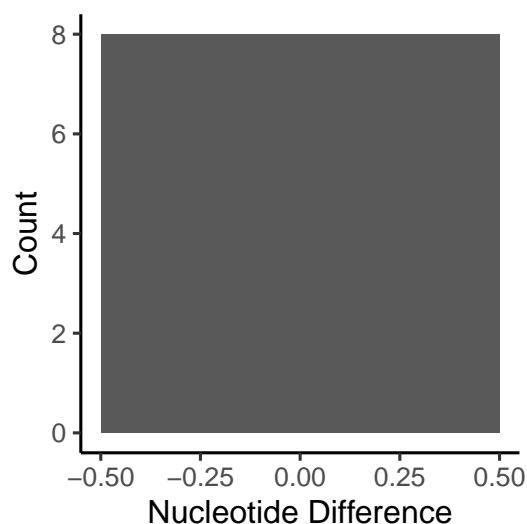
### IGLV4-60\*02

36 sequences assigned  
30 (83.3%) exact matches, in which:  
27 unique CDR3  
4 unique J



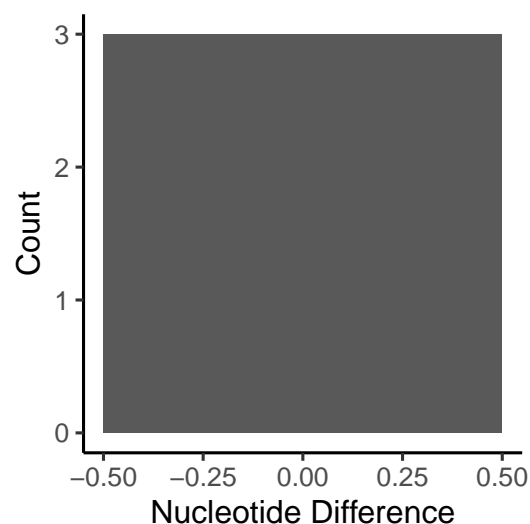
### IGLV5-39\*01

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



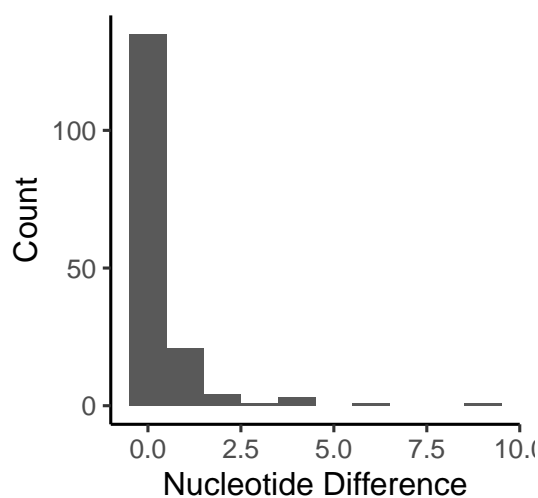
### IGLV5-48\*01

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



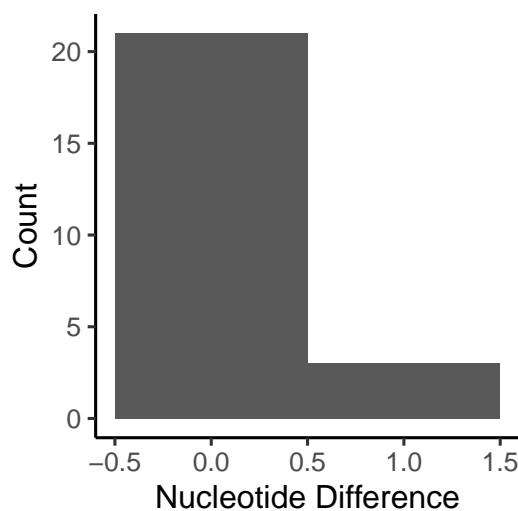
### IGLV4-69\*01

166 sequences assigned  
135 (81.3%) exact matches, in which:  
112 unique CDR3  
4 unique J



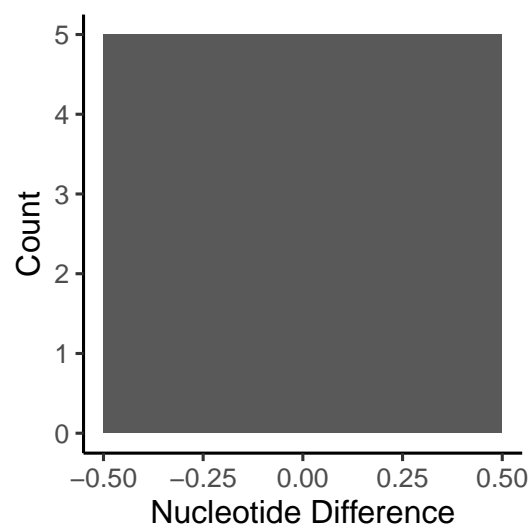
### IGLV5-45\*02

24 sequences assigned  
21 (87.5%) exact matches, in which:  
19 unique CDR3  
3 unique J



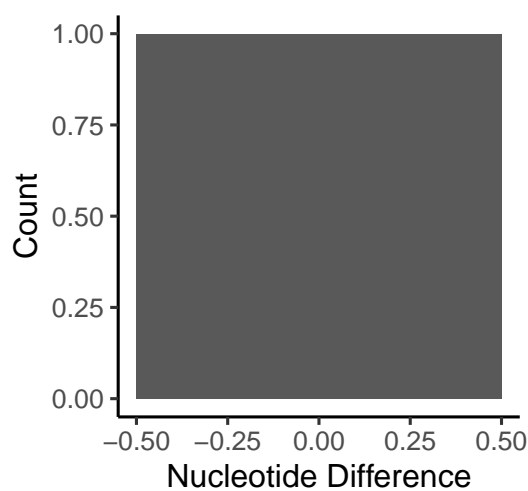
### IGLV5-52\*01

5 sequences assigned  
5 (100%) exact matches, in which:  
5 unique CDR3  
3 unique J



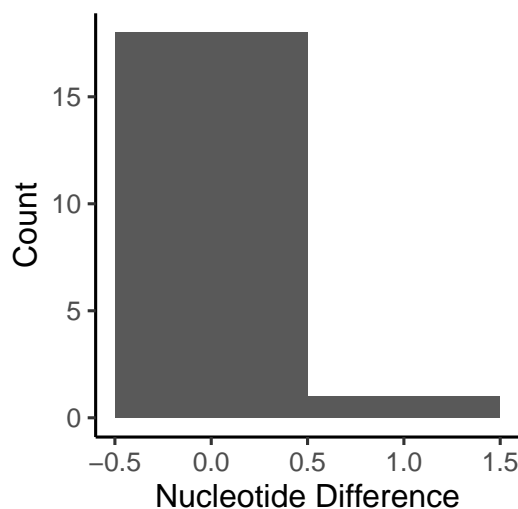
### IGLV5-37\*01

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



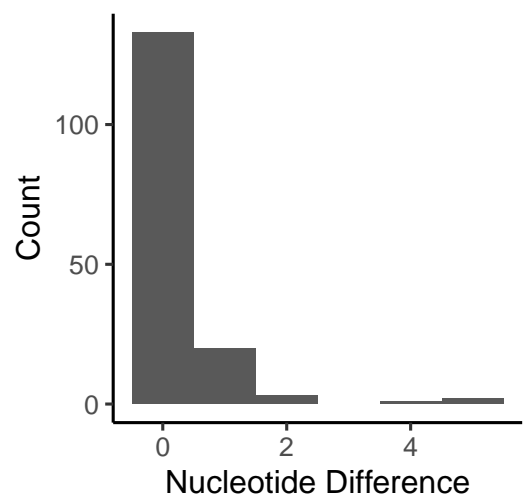
### IGLV5-45\*03

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



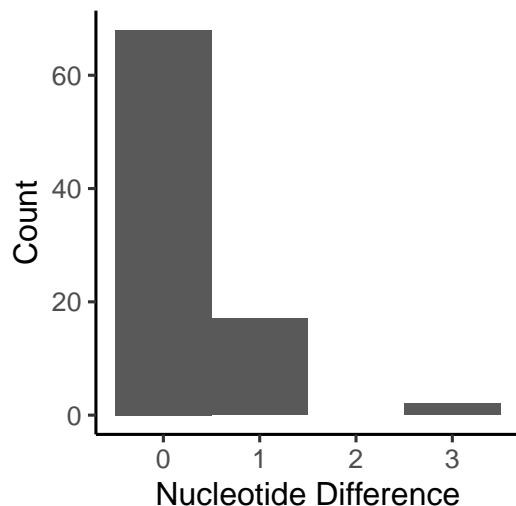
### IGLV6-57\*01

159 sequences assigned  
133 (83.6%) exact matches, in which:  
120 unique CDR3  
4 unique J



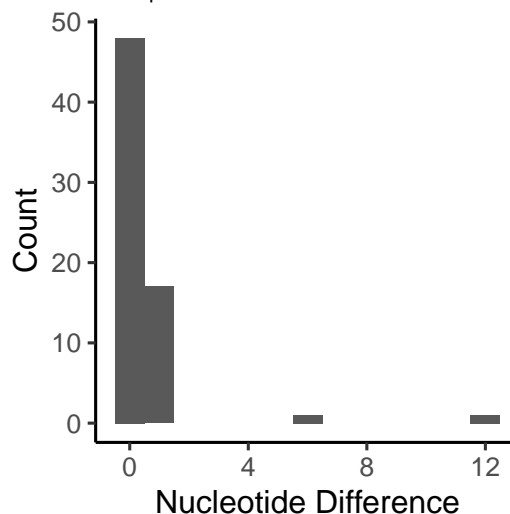
## IGLV6-57\*02

87 sequences assigned  
68 (78.2%) exact matches, in which:  
58 unique CDR3  
5 unique J



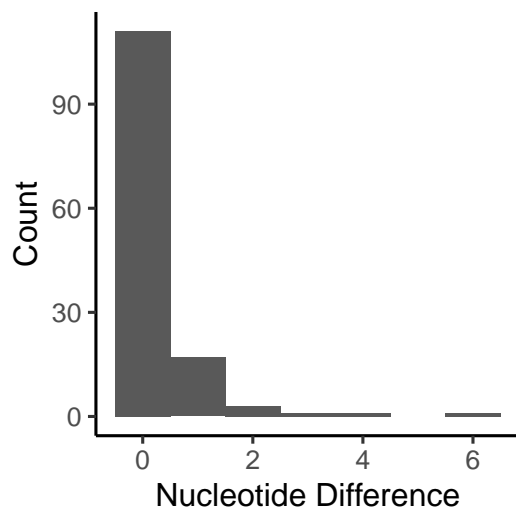
## IGLV8-61\*01

67 sequences assigned  
48 (71.6%) exact matches, in which:  
39 unique CDR3  
4 unique J



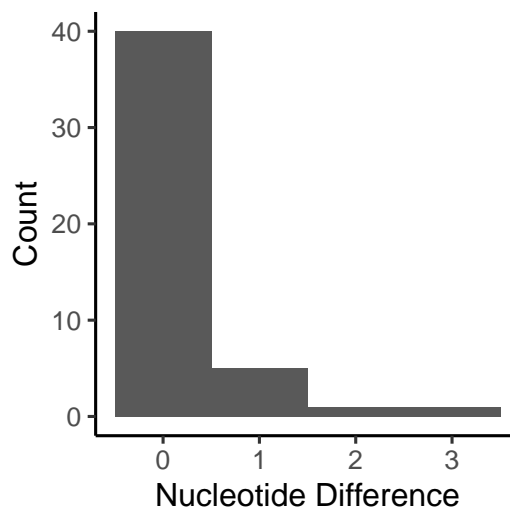
## IGLV7-43\*01

134 sequences assigned  
111 (82.8%) exact matches, in which:  
101 unique CDR3  
4 unique J



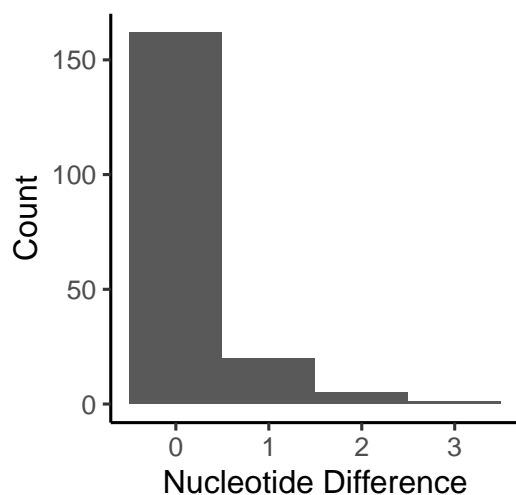
## IGLV9-49\*01

47 sequences assigned  
40 (85.1%) exact matches, in which:  
38 unique CDR3  
3 unique J

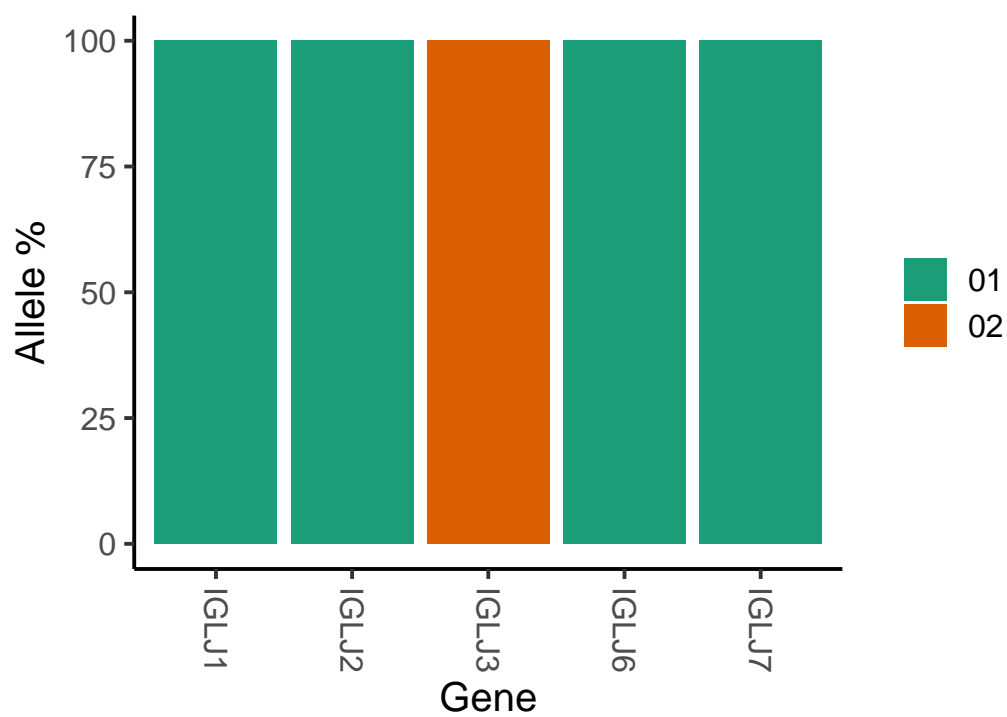


## IGLV7-46\*01

188 sequences assigned  
162 (86.2%) exact matches, in which:  
144 unique CDR3  
4 unique J



# Allele Usage



Warning – no inferred sequences found.