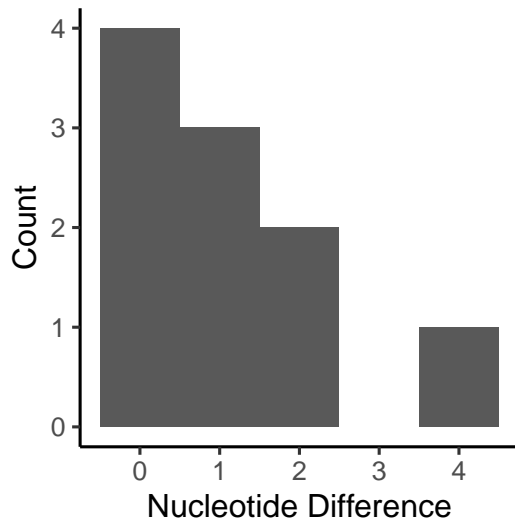


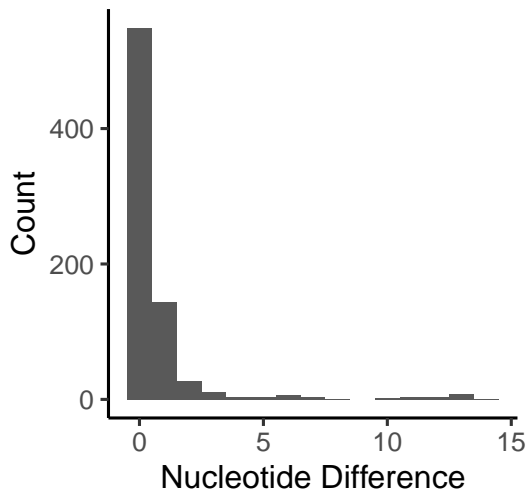
### IGLV10-54\*01

10 sequences assigned  
4 (40%) exact matches, in which:  
4 unique CDR3  
1 unique J



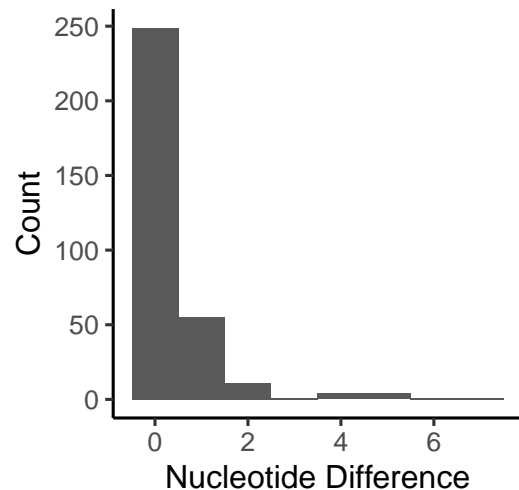
### IGLV1-40\*01

769 sequences assigned  
549 (71.4%) exact matches, in which:  
459 unique CDR3  
3 unique J



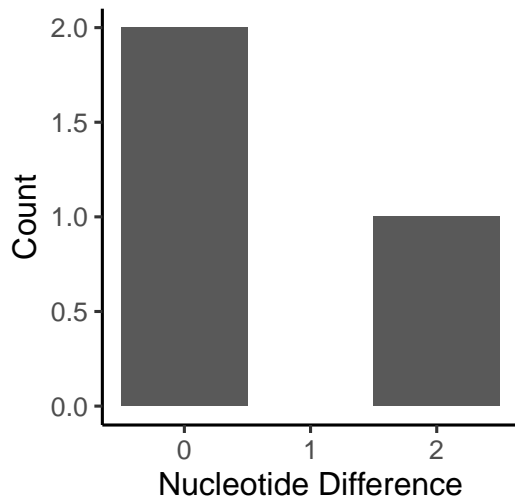
### IGLV1-47\*01

326 sequences assigned  
249 (76.4%) exact matches, in which:  
203 unique CDR3  
3 unique J



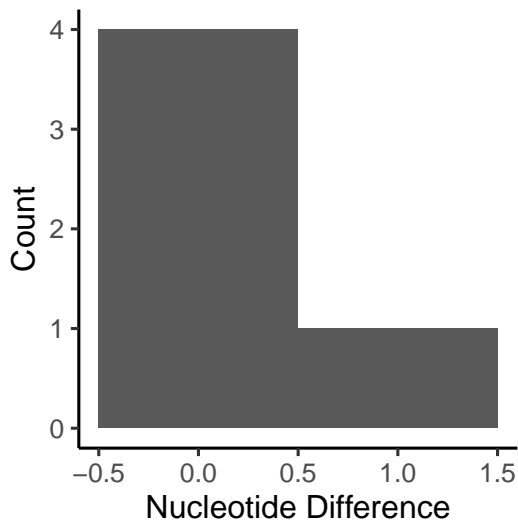
### IGLV10-54\*02

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



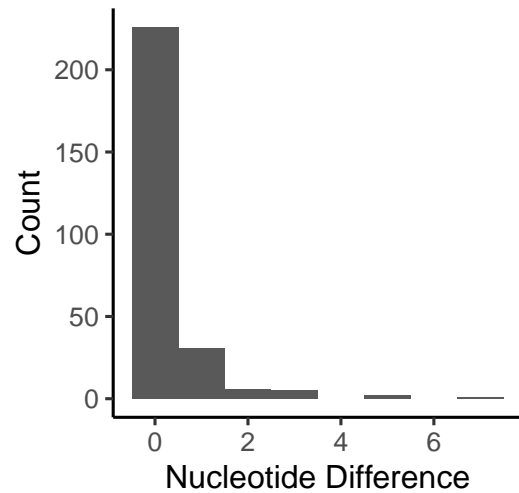
### IGLV1-41\*01

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



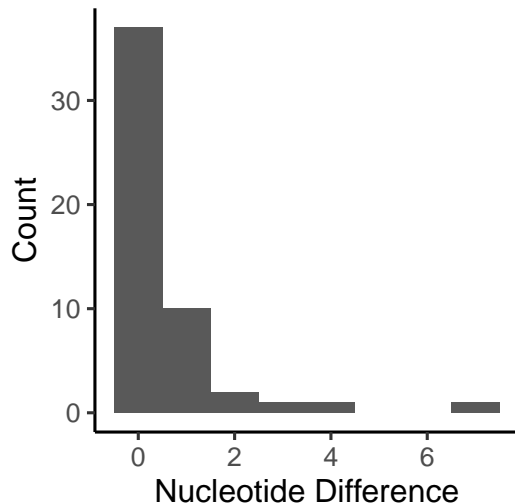
### IGLV1-51\*01

271 sequences assigned  
226 (83.4%) exact matches, in which:  
173 unique CDR3  
3 unique J



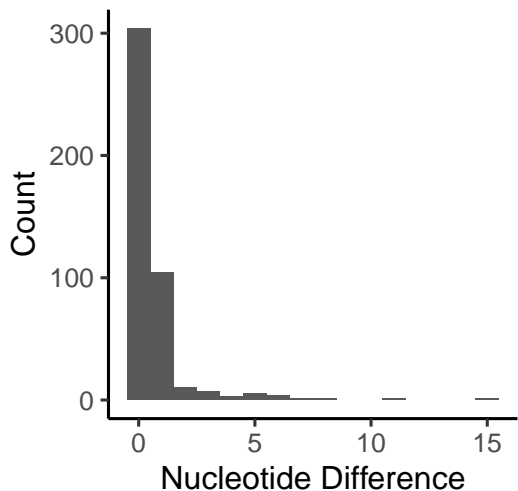
### IGLV1-36\*01

52 sequences assigned  
37 (71.2%) exact matches, in which:  
27 unique CDR3  
3 unique J



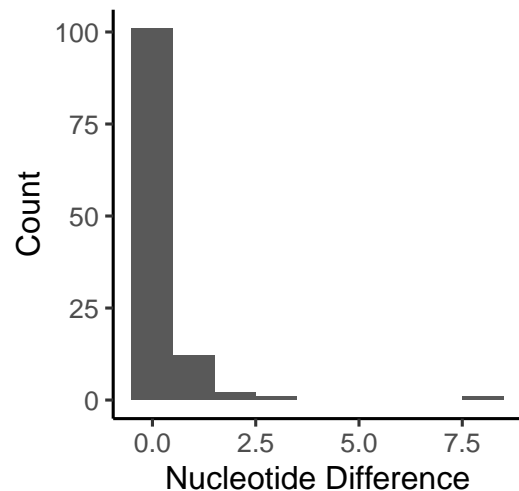
### IGLV1-44\*01

441 sequences assigned  
304 (68.9%) exact matches, in which:  
249 unique CDR3  
4 unique J



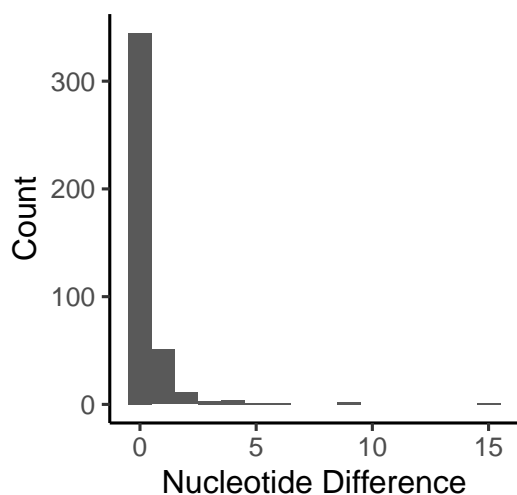
### IGLV2-8\*01

117 sequences assigned  
101 (86.3%) exact matches, in which:  
94 unique CDR3  
2 unique J



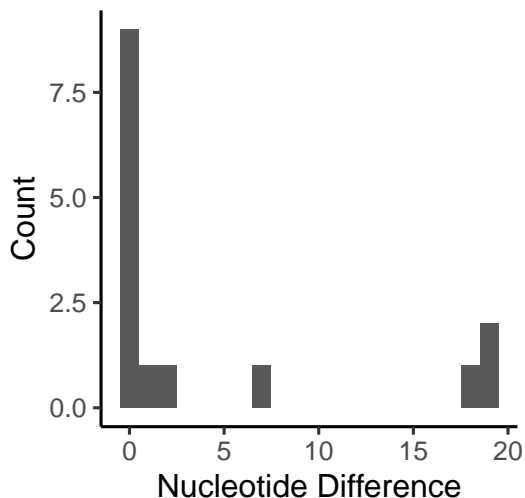
### IGLV2-11\*01

419 sequences assigned  
345 (82.3%) exact matches, in which:  
287 unique CDR3  
3 unique J



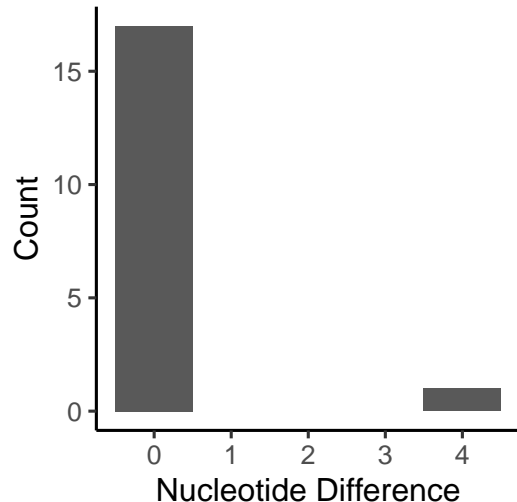
### IGLV2-18\*02

15 sequences assigned  
9 (60%) exact matches, in which:  
4 unique CDR3  
2 unique J



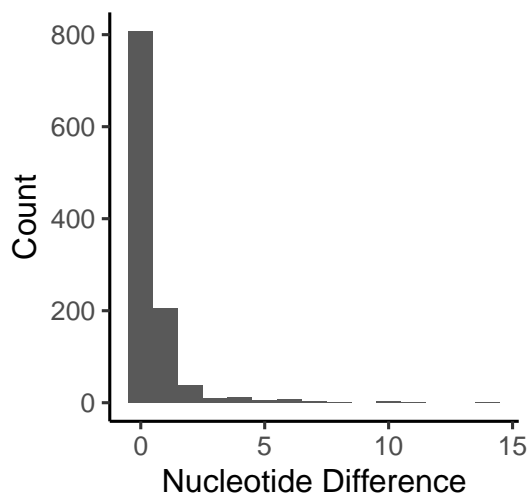
### IGLV3-9\*01EXT5

18 sequences assigned  
17 (94.4%) exact matches, in which:  
16 unique CDR3  
3 unique J



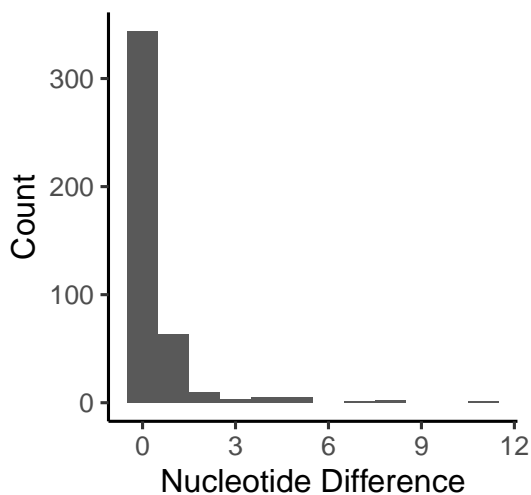
### IGLV2-14\*01

1097 sequences assigned  
808 (73.7%) exact matches, in which:  
679 unique CDR3  
5 unique J



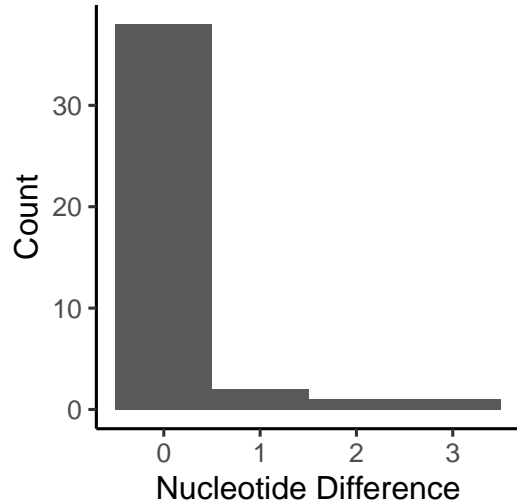
### IGLV2-23\*03EXT5

434 sequences assigned  
344 (79.3%) exact matches, in which:  
311 unique CDR3  
3 unique J



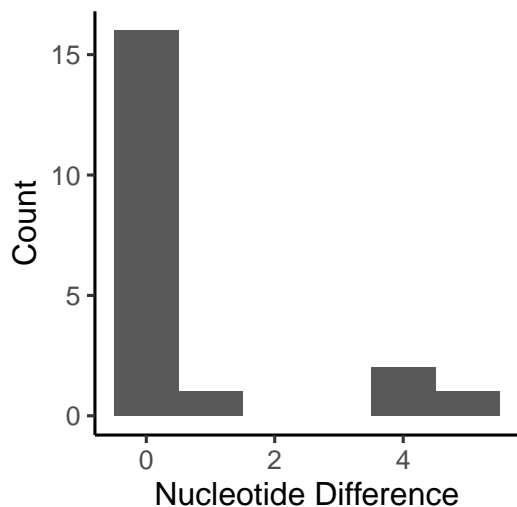
### IGLV3-10\*01

42 sequences assigned  
38 (90.5%) exact matches, in which:  
36 unique CDR3  
3 unique J



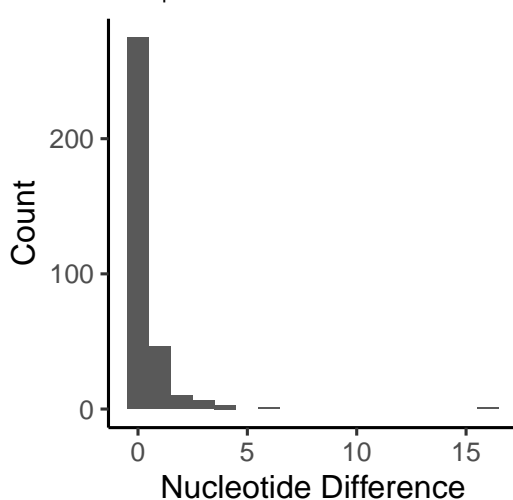
### IGLV2-18\*01

20 sequences assigned  
16 (80%) exact matches, in which:  
15 unique CDR3  
2 unique J



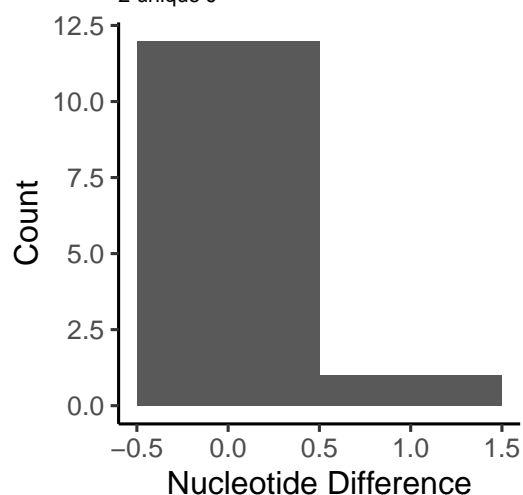
### IGLV3-1\*01

342 sequences assigned  
275 (80.4%) exact matches, in which:  
250 unique CDR3  
3 unique J



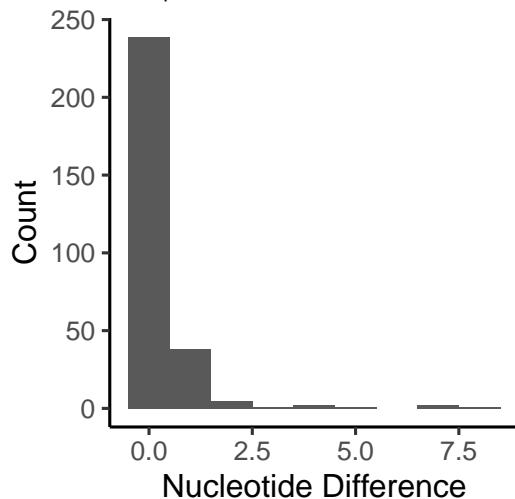
### IGLV3-16\*01

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



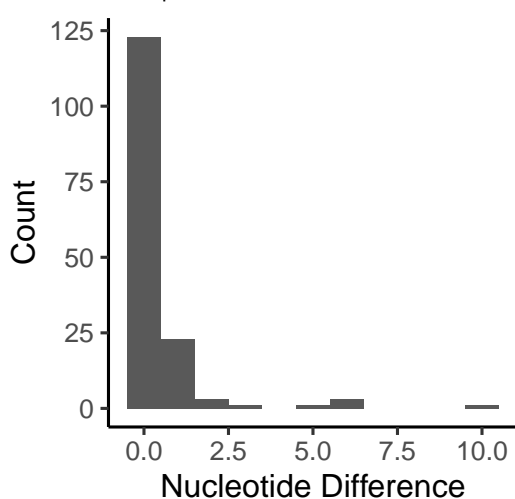
### IGLV3-19\*01

289 sequences assigned  
239 (82.7%) exact matches, in which:  
207 unique CDR3  
3 unique J



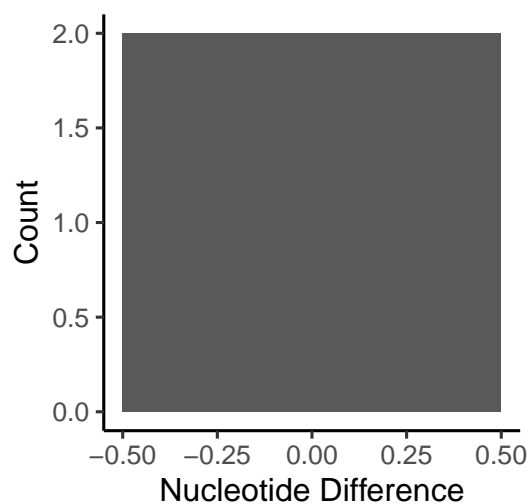
### IGLV3-25\*02

155 sequences assigned  
123 (79.4%) exact matches, in which:  
106 unique CDR3  
3 unique J



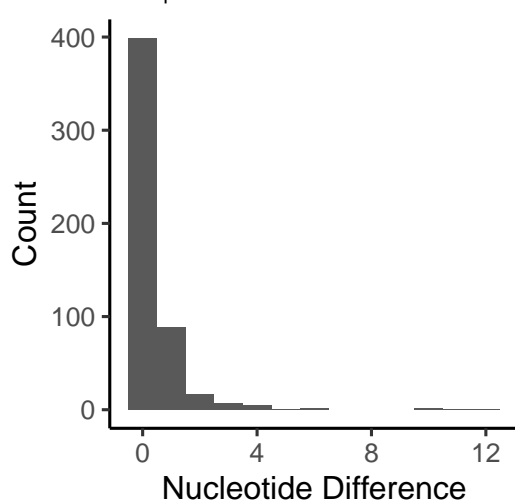
### IGLV4-3\*01

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



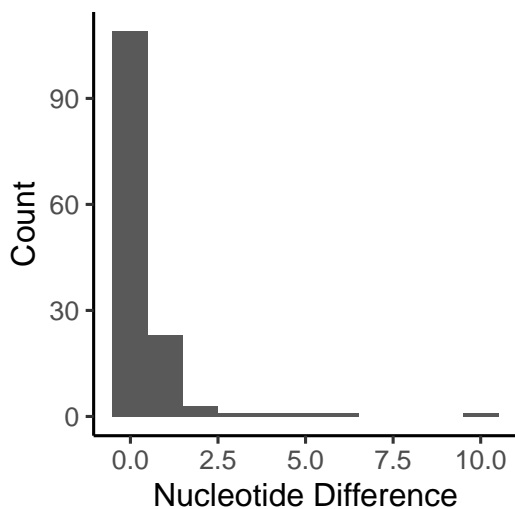
### IGLV3-21\*02

524 sequences assigned  
399 (76.1%) exact matches, in which:  
339 unique CDR3  
3 unique J



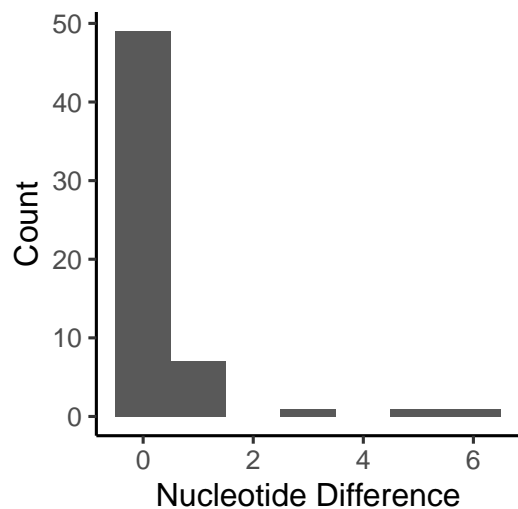
### IGLV3-25\*03

140 sequences assigned  
109 (77.9%) exact matches, in which:  
98 unique CDR3  
3 unique J



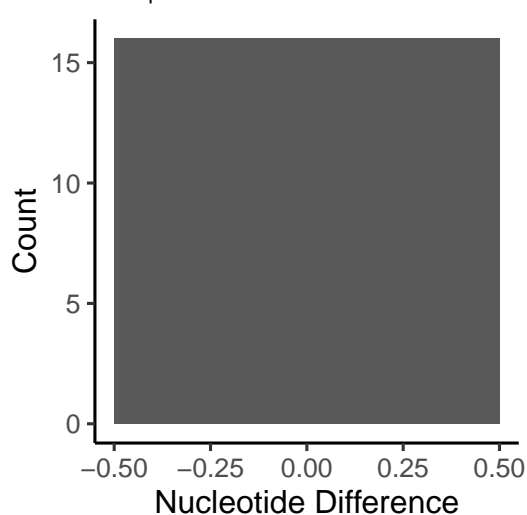
### IGLV4-60\*03EXT5

59 sequences assigned  
49 (83.1%) exact matches, in which:  
47 unique CDR3  
3 unique J



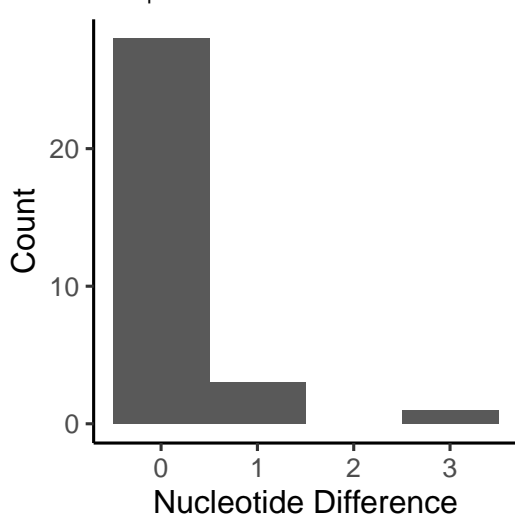
### IGLV3-22\*01

16 sequences assigned  
16 (100%) exact matches, in which:  
14 unique CDR3  
2 unique J



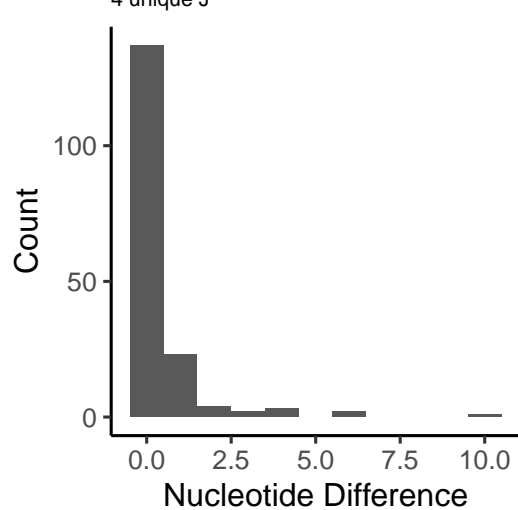
### IGLV3-27\*01

32 sequences assigned  
28 (87.5%) exact matches, in which:  
27 unique CDR3  
2 unique J



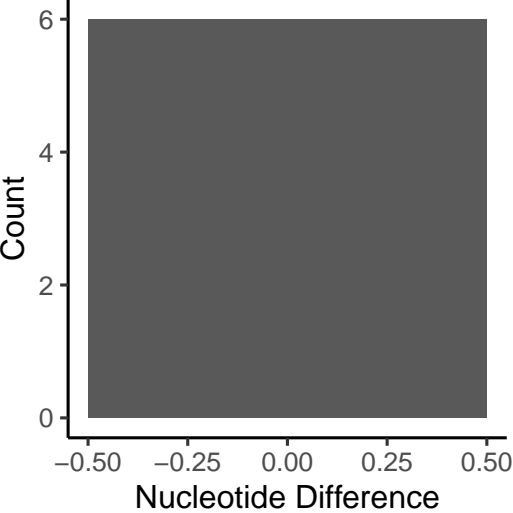
### IGLV4-69\*01

172 sequences assigned  
137 (79.7%) exact matches, in which:  
119 unique CDR3  
4 unique J



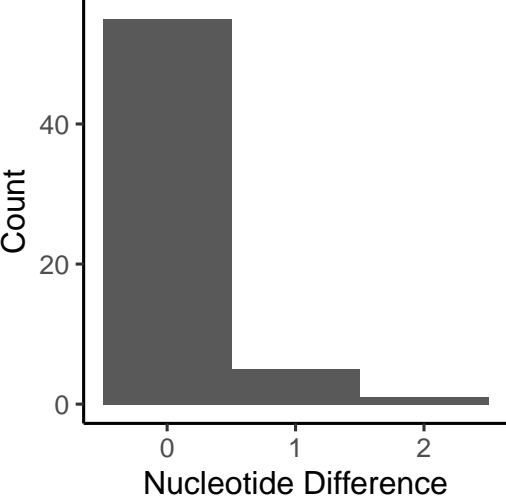
IGLV5-37\*01

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



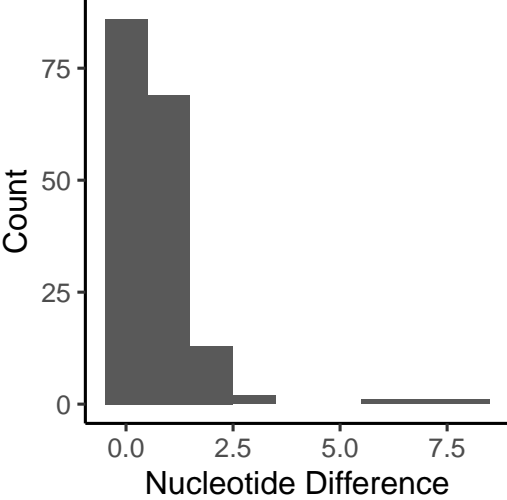
IGLV6-57\*02

61 sequences assigned  
55 (90.2%) exact matches, in which:  
51 unique CDR3  
4 unique J



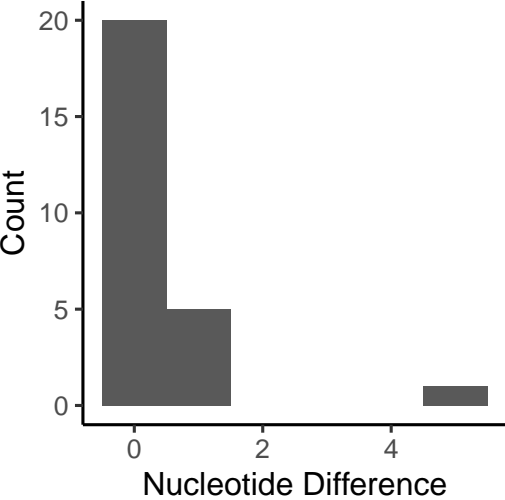
IGLV7-46\*01

173 sequences assigned  
86 (49.7%) exact matches, in which:  
75 unique CDR3  
3 unique J



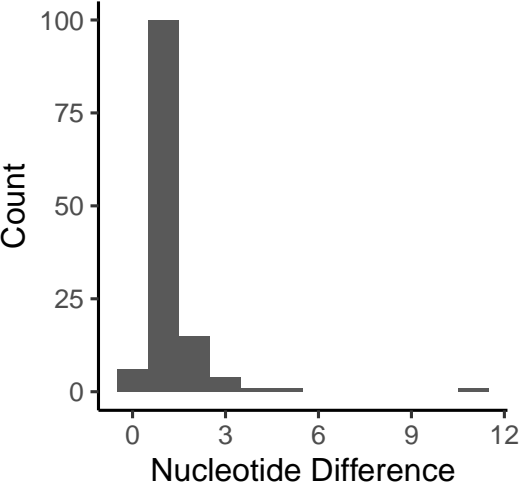
IGLV5-45\*02

26 sequences assigned  
20 (76.9%) exact matches, in which:  
13 unique CDR3  
3 unique J



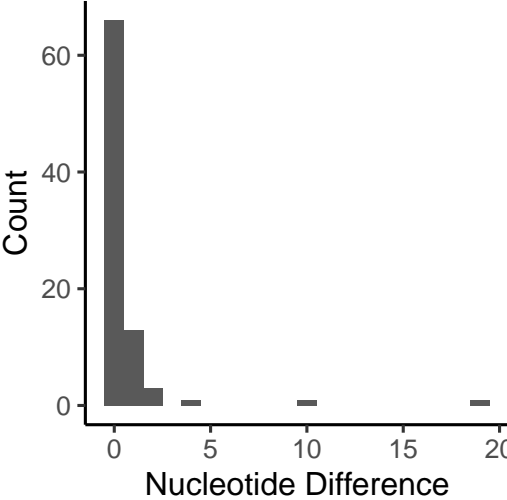
IGLV6-57\*03

128 sequences assigned  
6 (4.7%) exact matches, in which:  
6 unique CDR3  
2 unique J



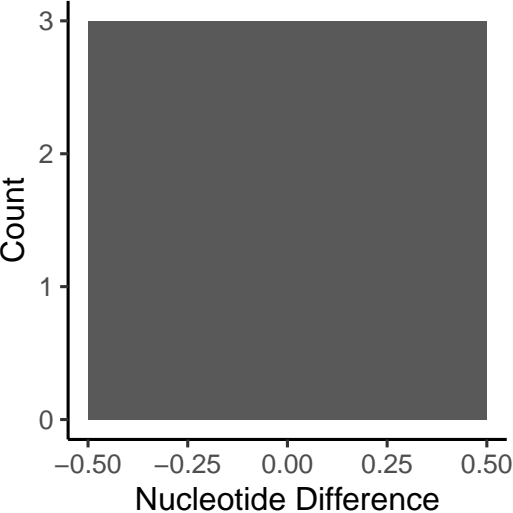
IGLV8-61\*01

85 sequences assigned  
66 (77.6%) exact matches, in which:  
55 unique CDR3  
3 unique J



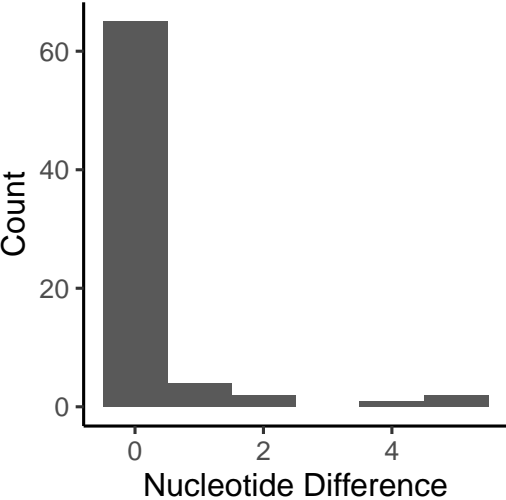
IGLV5-52\*01

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



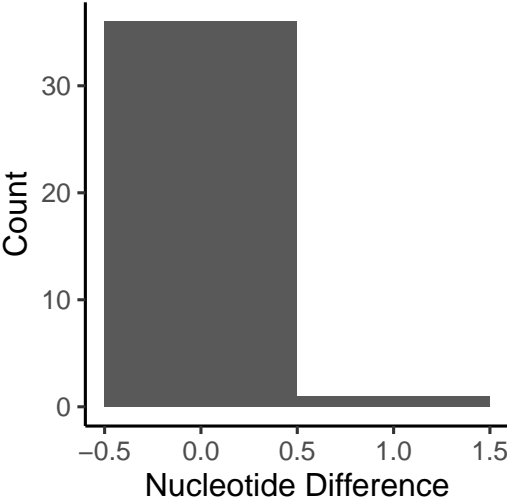
IGLV7-43\*01

74 sequences assigned  
65 (87.8%) exact matches, in which:  
58 unique CDR3  
2 unique J

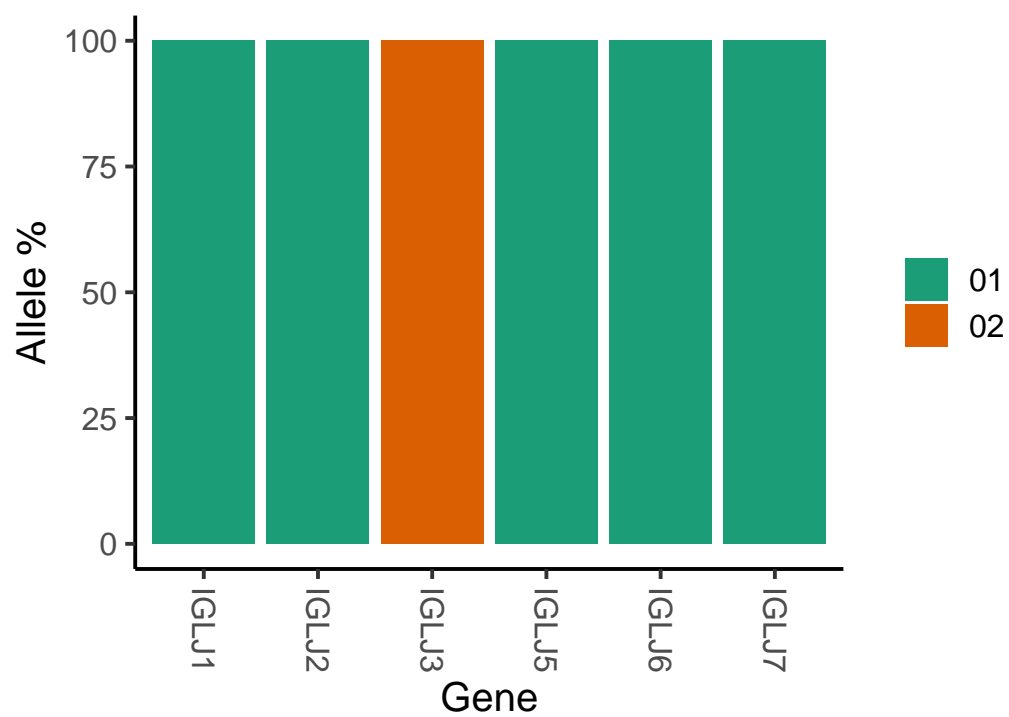


IGLV9-49\*01

37 sequences assigned  
36 (97.3%) exact matches, in which:  
36 unique CDR3  
4 unique J



# Allele Usage



Warning – no inferred sequences found.