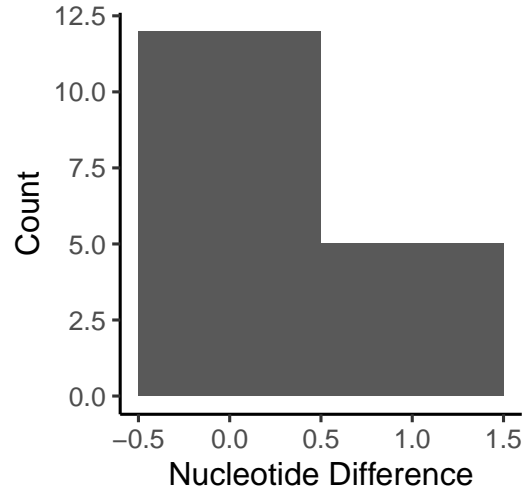


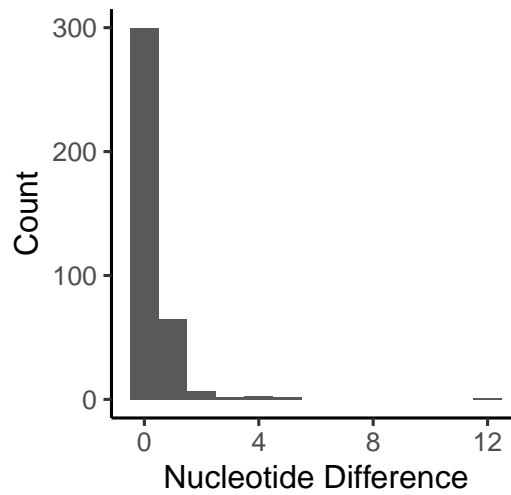
### IGLV10-54\*01

17 sequences assigned  
12 (70.6%) exact matches, in which:  
12 unique CDR3  
3 unique J



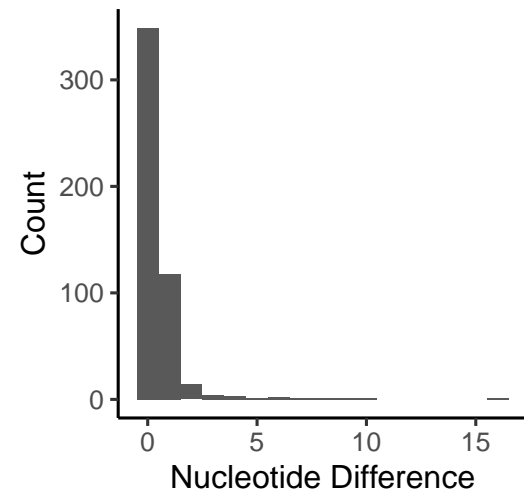
### IGLV1-40\*01

380 sequences assigned  
300 (78.9%) exact matches, in which:  
292 unique CDR3  
4 unique J



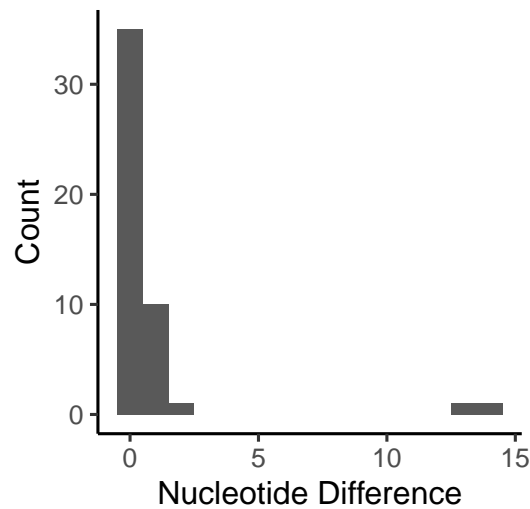
### IGLV1-44\*01

496 sequences assigned  
349 (70.4%) exact matches, in which:  
290 unique CDR3  
4 unique J



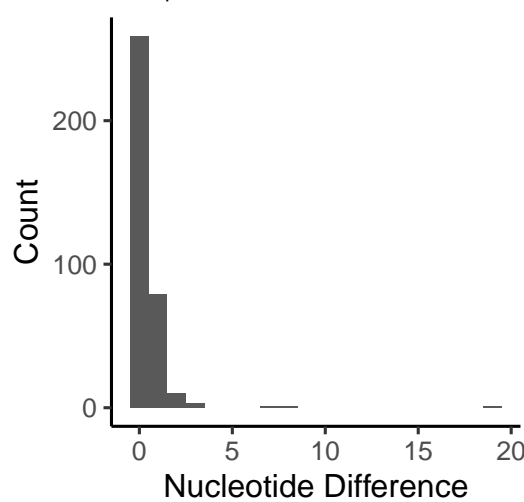
### IGLV10-54\*01\_A228C

48 sequences assigned  
35 (72.9%) exact matches, in which:  
30 unique CDR3  
4 unique J



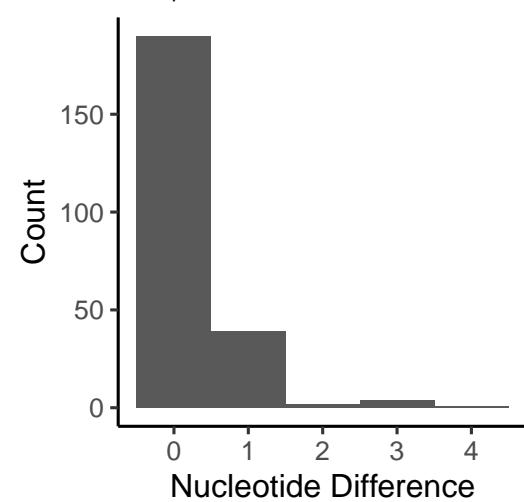
### IGLV1-40\*01\_G38A

354 sequences assigned  
259 (73.2%) exact matches, in which:  
244 unique CDR3  
5 unique J



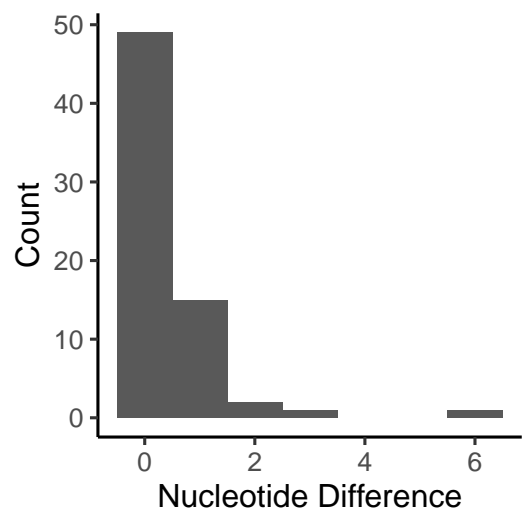
### IGLV1-47\*01

236 sequences assigned  
190 (80.5%) exact matches, in which:  
174 unique CDR3  
4 unique J



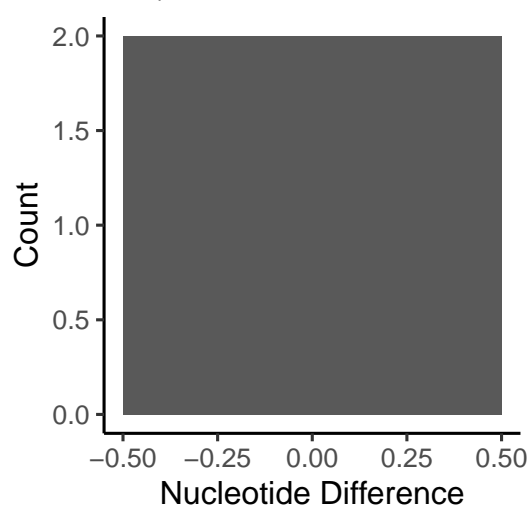
### IGLV1-36\*01

68 sequences assigned  
49 (72.1%) exact matches, in which:  
42 unique CDR3  
4 unique J



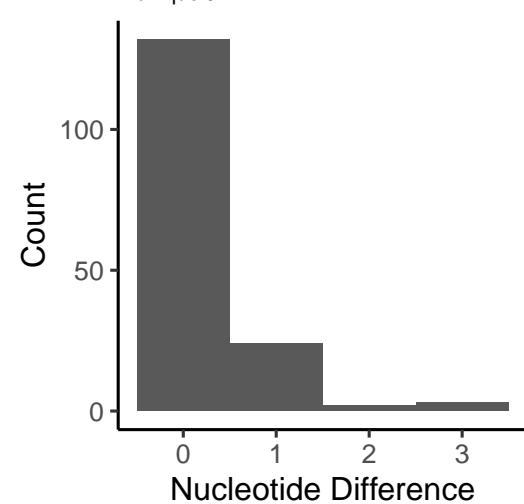
### IGLV1-41\*01

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



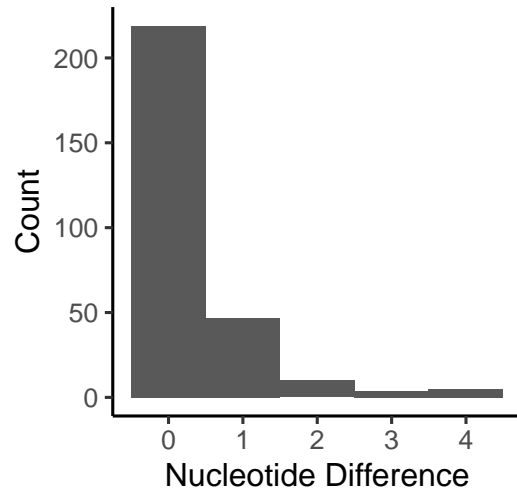
### IGLV1-47\*02

161 sequences assigned  
132 (82%) exact matches, in which:  
120 unique CDR3  
4 unique J



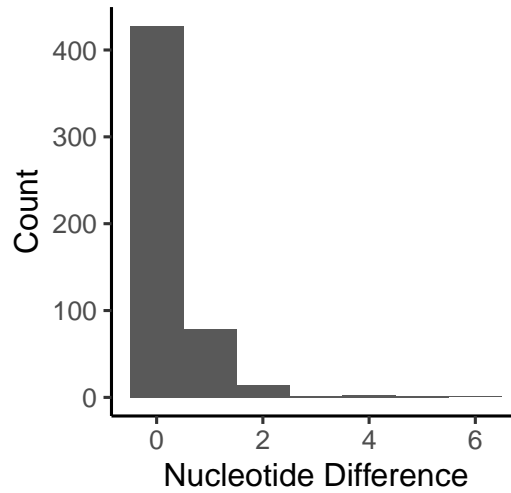
### IGLV1-51\*01

285 sequences assigned  
219 (76.8%) exact matches, in which:  
163 unique CDR3  
4 unique J



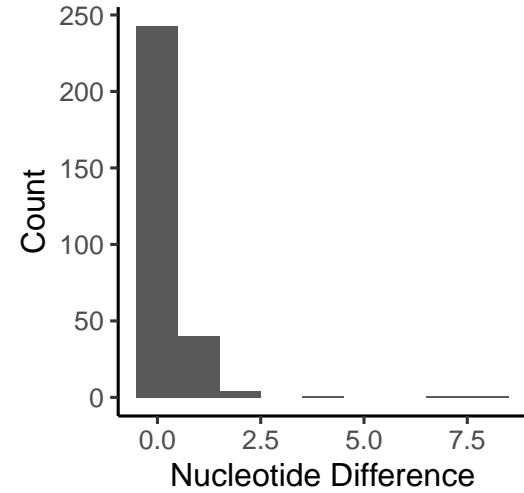
### IGLV2-14\*03EXT3

529 sequences assigned  
428 (80.9%) exact matches, in which:  
390 unique CDR3  
4 unique J



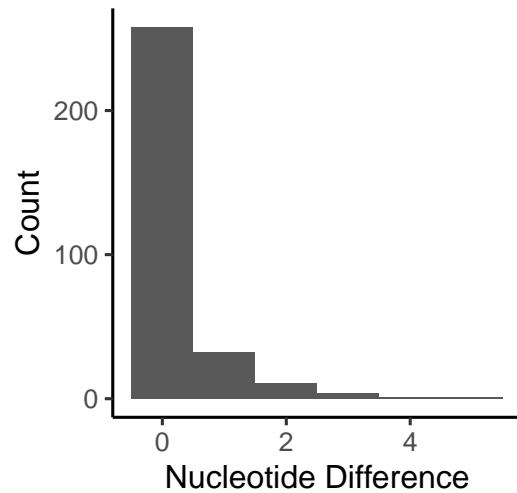
### IGLV2-23\*01

290 sequences assigned  
243 (83.8%) exact matches, in which:  
223 unique CDR3  
4 unique J



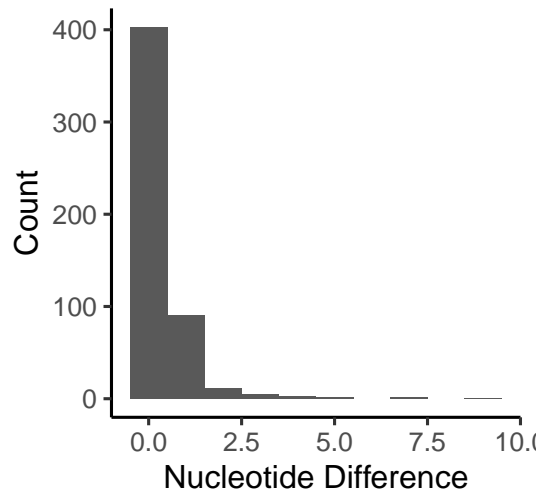
### IGLV2-8\*01

307 sequences assigned  
258 (84%) exact matches, in which:  
230 unique CDR3  
4 unique J



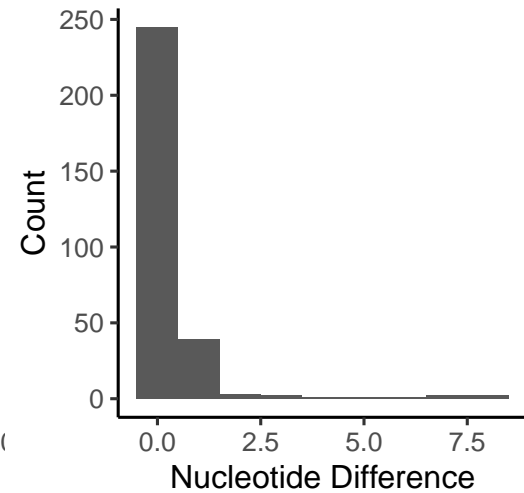
### IGLV2-14\*04EXT3

519 sequences assigned  
403 (77.6%) exact matches, in which:  
372 unique CDR3  
4 unique J



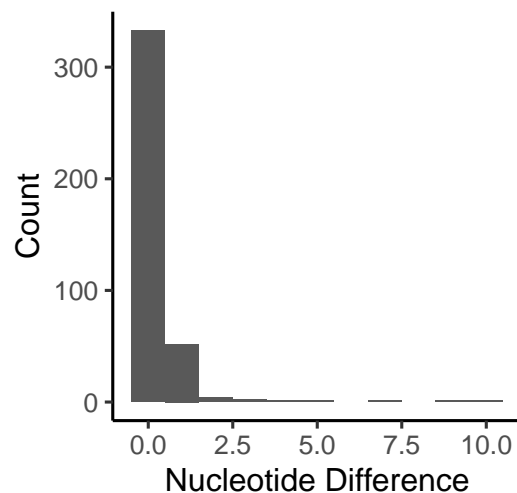
### IGLV2-23\*01\_G170T

296 sequences assigned  
245 (82.8%) exact matches, in which:  
226 unique CDR3  
3 unique J



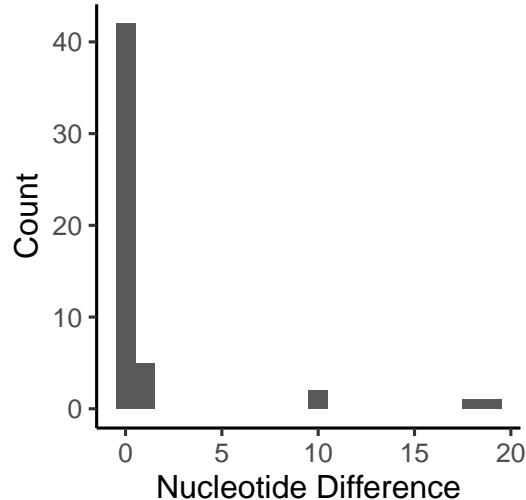
### IGLV2-11\*01

396 sequences assigned  
333 (84.1%) exact matches, in which:  
298 unique CDR3  
4 unique J



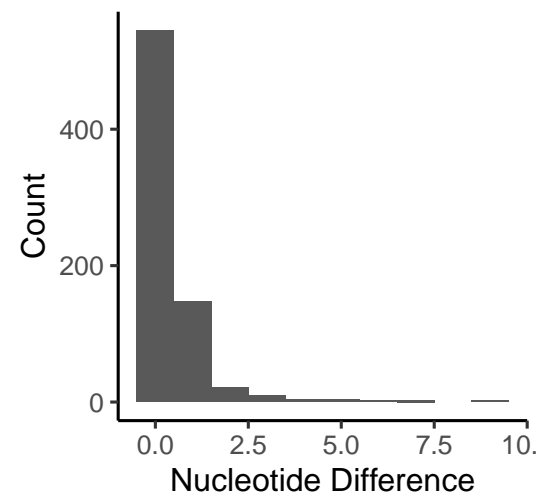
### IGLV2-18\*02

51 sequences assigned  
42 (82.4%) exact matches, in which:  
35 unique CDR3  
3 unique J



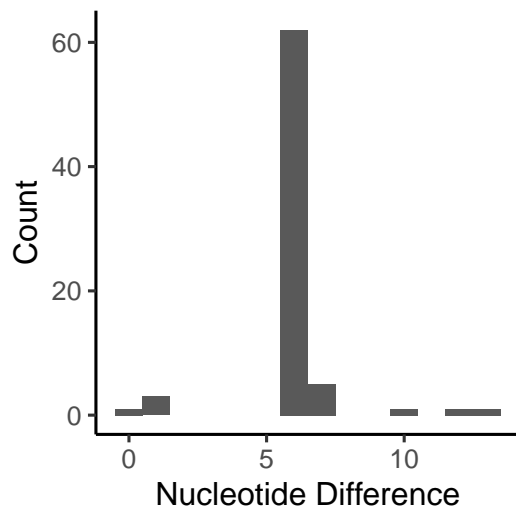
### IGLV3-1\*01

738 sequences assigned  
545 (73.8%) exact matches, in which:  
457 unique CDR3  
5 unique J



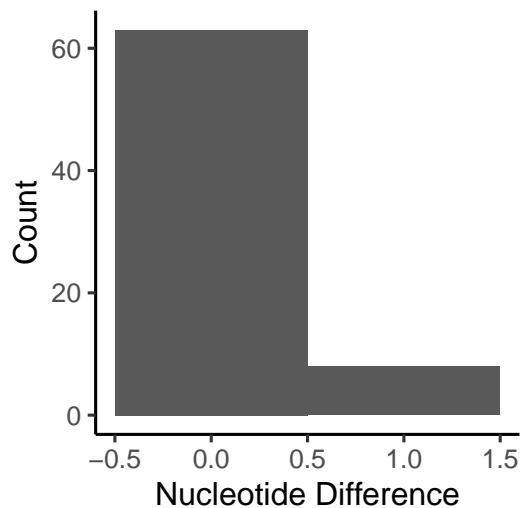
### IGLV3-9\*02

74 sequences assigned  
1 (1.4%) exact matches, in which:  
1 unique CDR3  
1 unique J



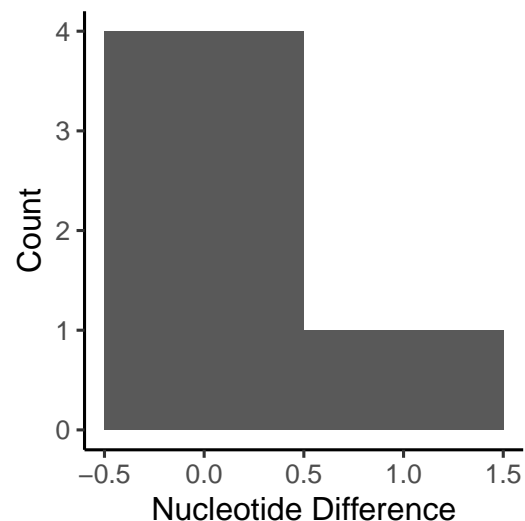
### IGLV3-16\*01

71 sequences assigned  
63 (88.7%) exact matches, in which:  
62 unique CDR3  
5 unique J



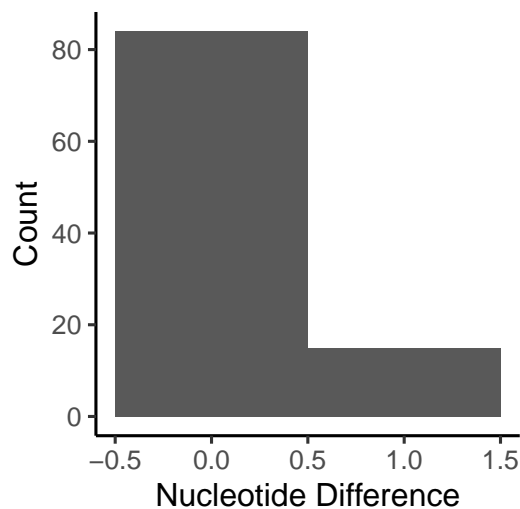
### IGLV3-22\*01

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



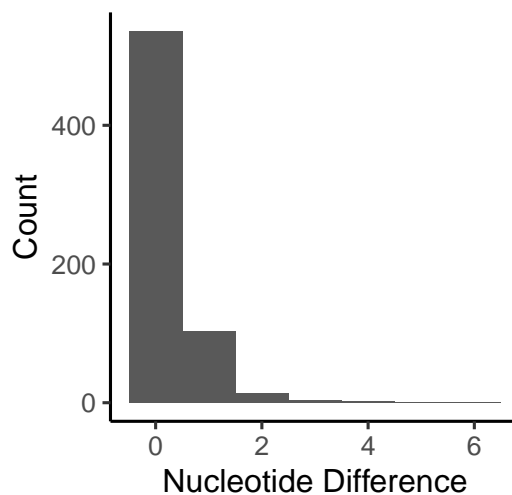
### IGLV3-10\*01

99 sequences assigned  
84 (84.8%) exact matches, in which:  
80 unique CDR3  
3 unique J



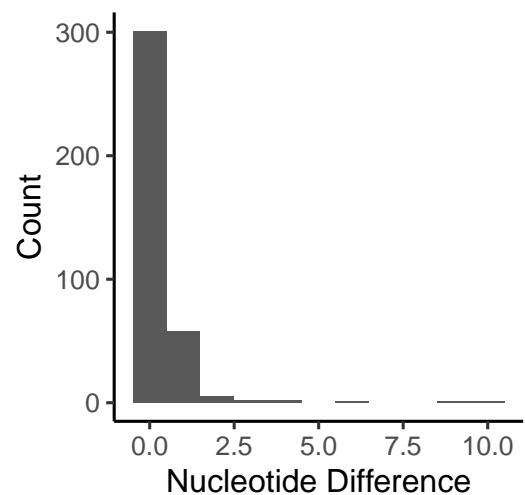
### IGLV3-19\*01

660 sequences assigned  
536 (81.2%) exact matches, in which:  
452 unique CDR3  
4 unique J



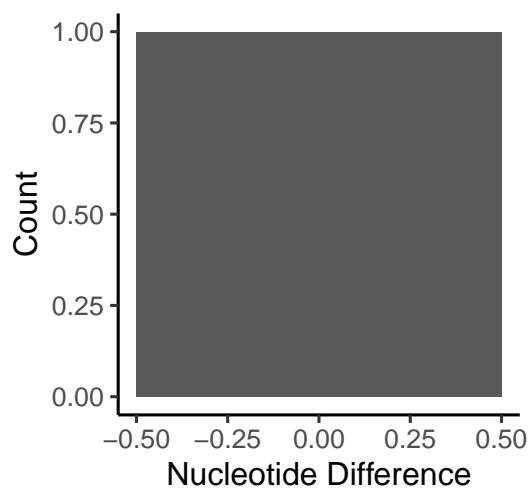
### IGLV3-25\*02

371 sequences assigned  
301 (81.1%) exact matches, in which:  
268 unique CDR3  
5 unique J



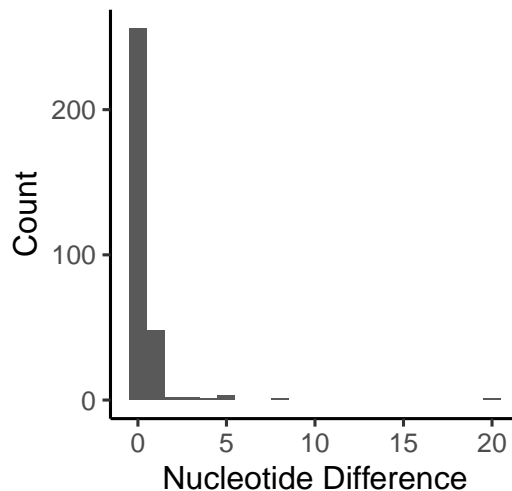
### IGLV3-12\*02

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



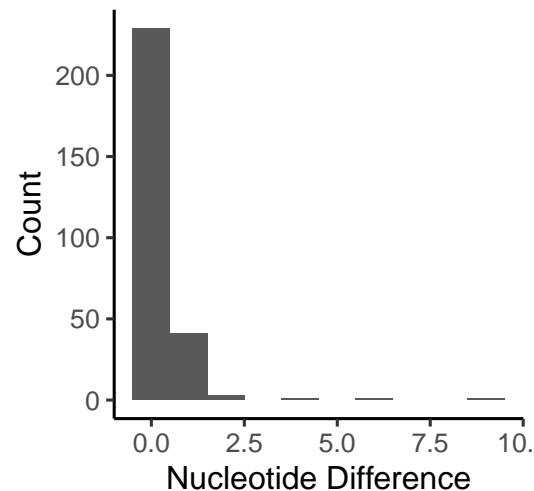
### IGLV3-21\*04

314 sequences assigned  
256 (81.5%) exact matches, in which:  
229 unique CDR3  
5 unique J



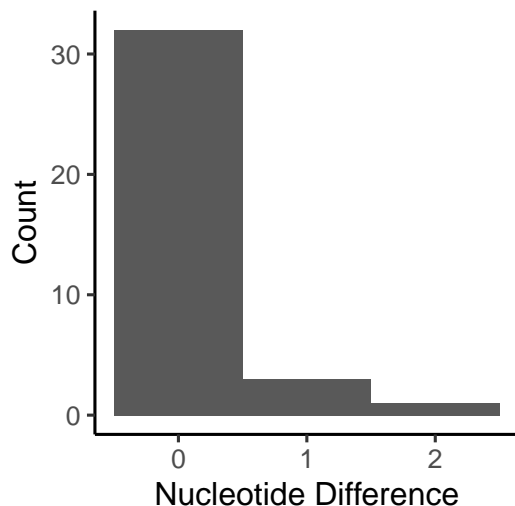
### IGLV3-25\*03

276 sequences assigned  
229 (83%) exact matches, in which:  
209 unique CDR3  
4 unique J



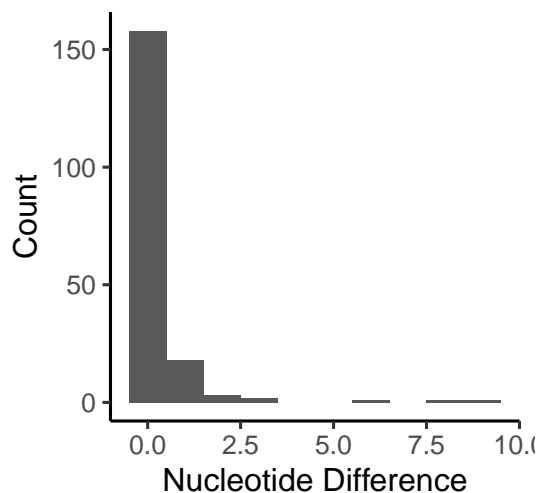
### IGLV3-27\*01

36 sequences assigned  
32 (88.9%) exact matches, in which:  
32 unique CDR3  
3 unique J



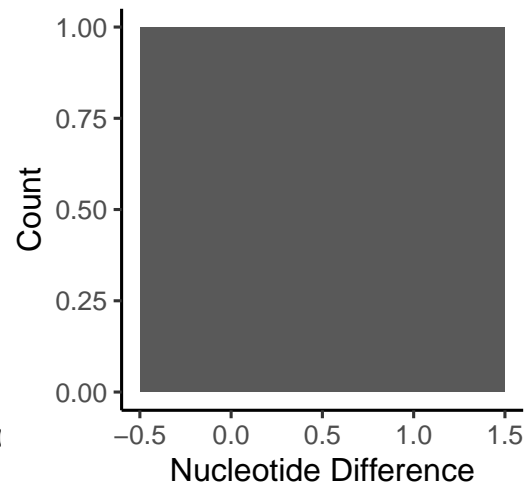
### IGLV4-69\*01

185 sequences assigned  
158 (85.4%) exact matches, in which:  
139 unique CDR3  
5 unique J



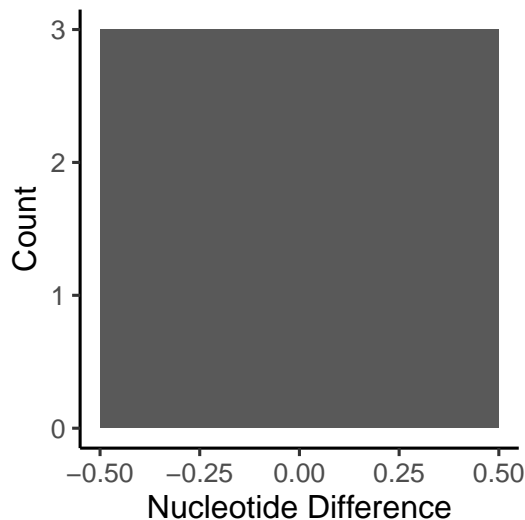
### IGLV5-48\*01

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



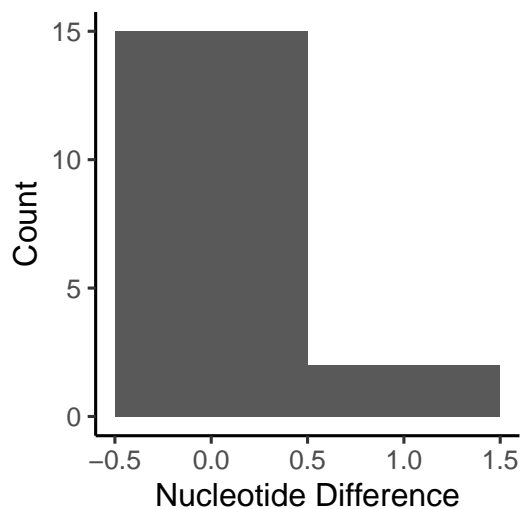
### IGLV4-3\*01

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



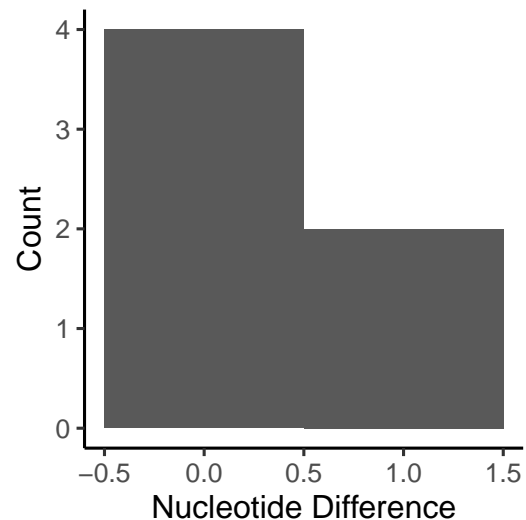
### IGLV5-39\*01

17 sequences assigned  
15 (88.2%) exact matches, in which:  
12 unique CDR3  
2 unique J



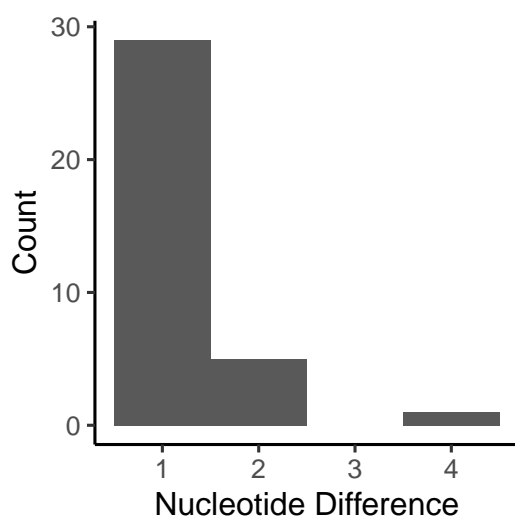
### IGLV5-52\*01

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



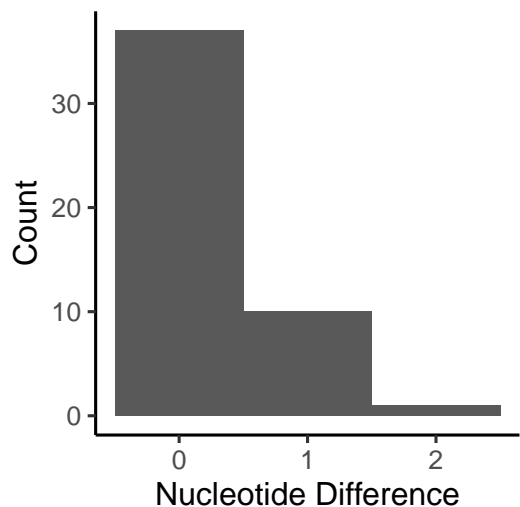
### IGLV4-60\*02

35 sequences assigned  
No exact matches.



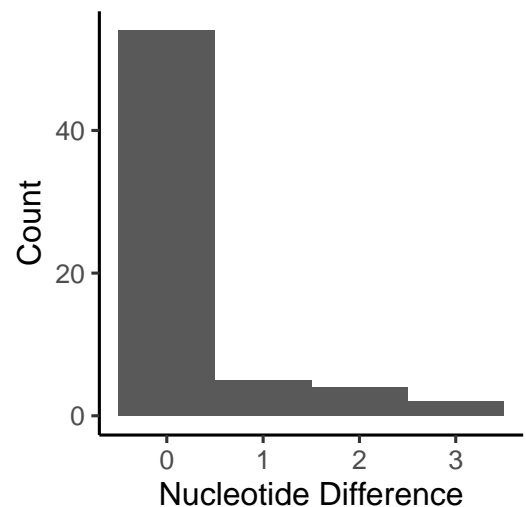
### IGLV5-45\*03

48 sequences assigned  
37 (77.1%) exact matches, in which:  
33 unique CDR3  
3 unique J



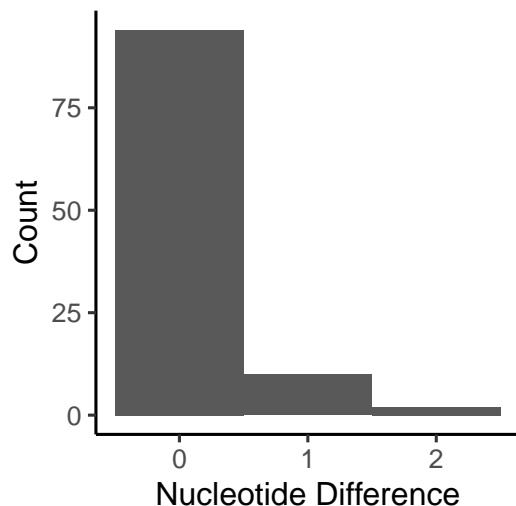
### IGLV6-57\*02

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



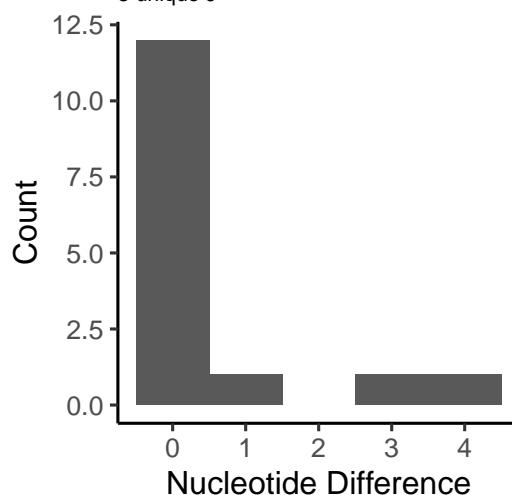
## IGLV6-57\*03\_C21G

106 sequences assigned  
94 (88.7%) exact matches, in which:  
89 unique CDR3  
5 unique J



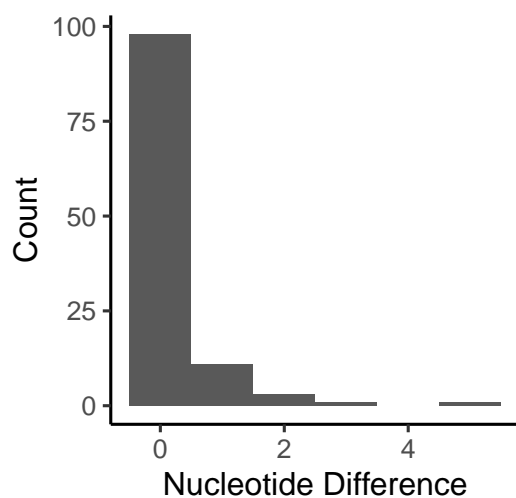
## IGLV7-46\*02

15 sequences assigned  
12 (80%) exact matches, in which:  
12 unique CDR3  
3 unique J



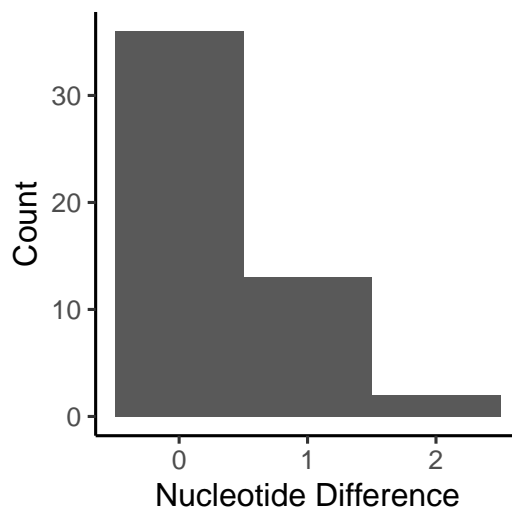
## IGLV7-43\*01

114 sequences assigned  
98 (86%) exact matches, in which:  
89 unique CDR3  
4 unique J



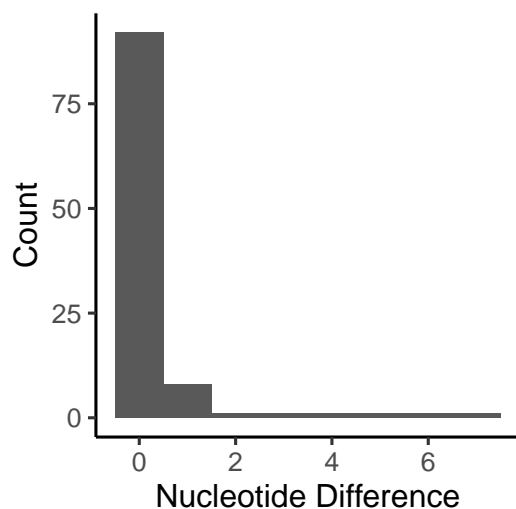
## IGLV8-61\*01

51 sequences assigned  
36 (70.6%) exact matches, in which:  
27 unique CDR3  
4 unique J



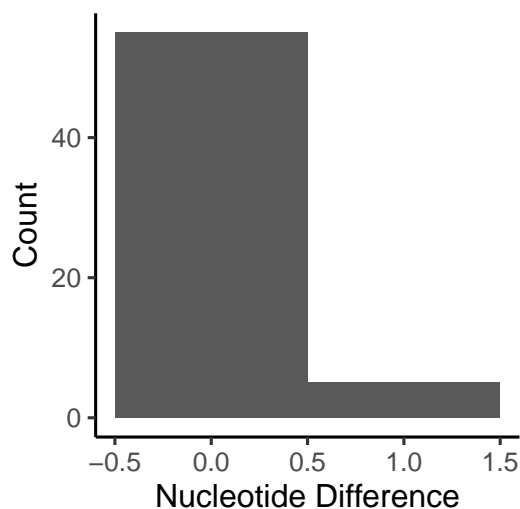
## IGLV7-46\*01

106 sequences assigned  
92 (86.8%) exact matches, in which:  
81 unique CDR3  
4 unique J



## IGLV9-49\*01

60 sequences assigned  
55 (91.7%) exact matches, in which:  
50 unique CDR3  
3 unique J



Allele Usage



Warning – no inferred sequences found.