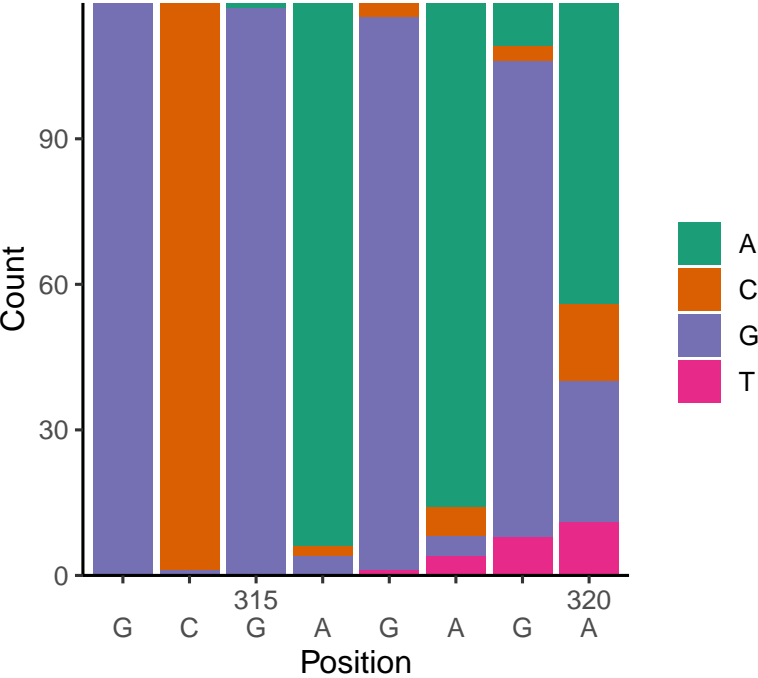


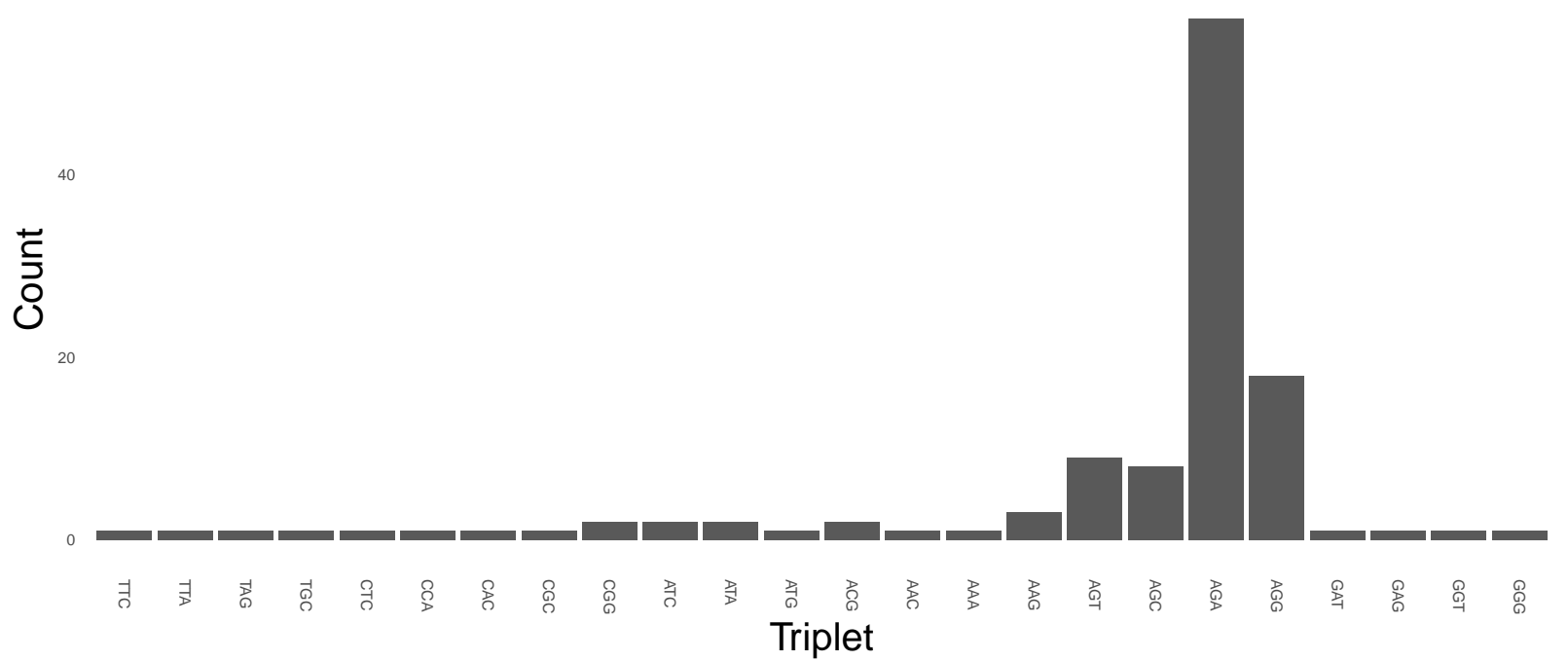
Gene IGHV4-61\*02\_A234G



Gene IGHV4-61\*02\_A234G

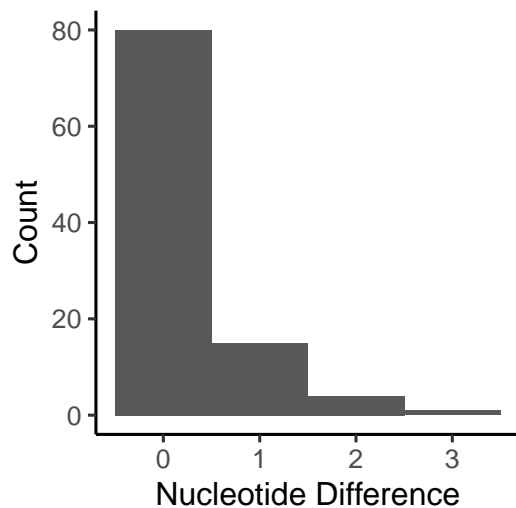


IGHV4-61\*02\_A234G- Final 3 nucleotides as a triplet



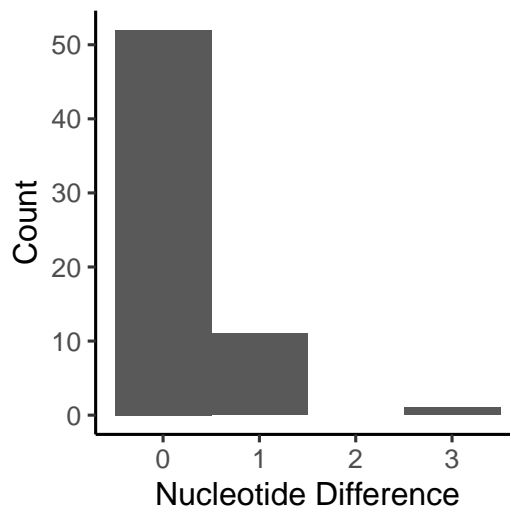
## IGHV1-2\*02

103 sequences assigned  
80 (77.7%) exact matches, in which:  
78 unique CDR3  
5 unique J



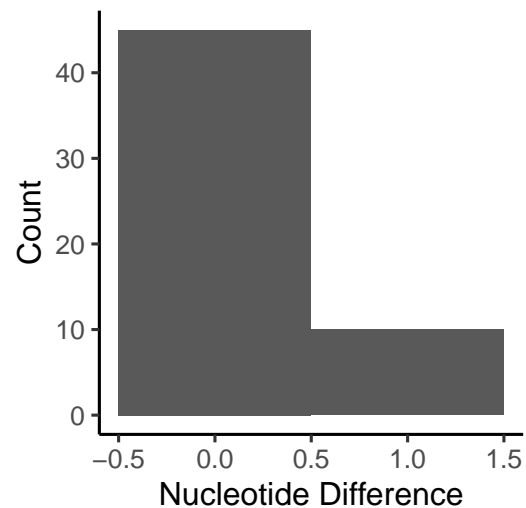
## IGHV1-8\*01

64 sequences assigned  
52 (81.2%) exact matches, in which:  
52 unique CDR3  
6 unique J



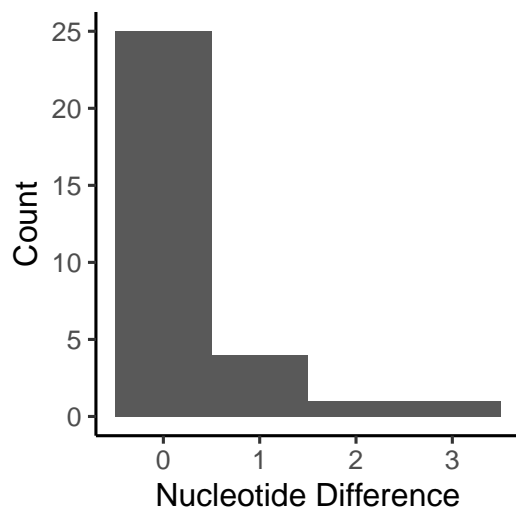
## IGHV1-46\*01

55 sequences assigned  
45 (81.8%) exact matches, in which:  
44 unique CDR3  
5 unique J



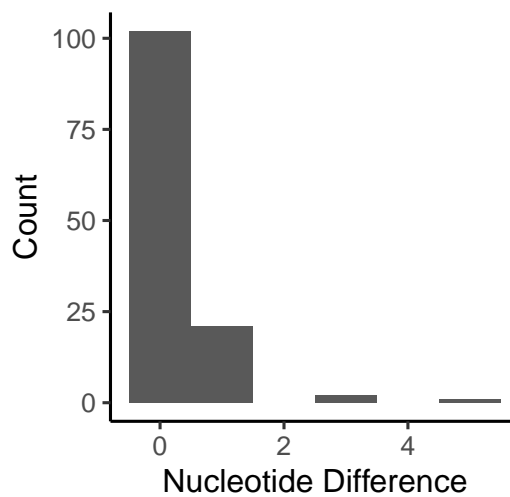
## IGHV1-2\*04

31 sequences assigned  
25 (80.6%) exact matches, in which:  
24 unique CDR3  
4 unique J



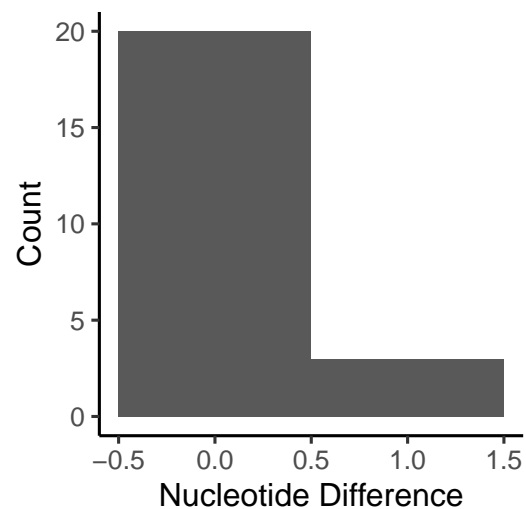
## IGHV1-18\*01

127 sequences assigned  
102 (80.3%) exact matches, in which:  
102 unique CDR3  
4 unique J



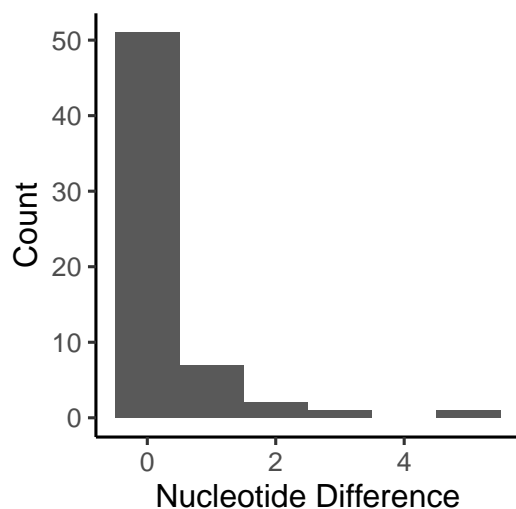
## IGHV1-46\*03

23 sequences assigned  
20 (87%) exact matches, in which:  
19 unique CDR3  
5 unique J



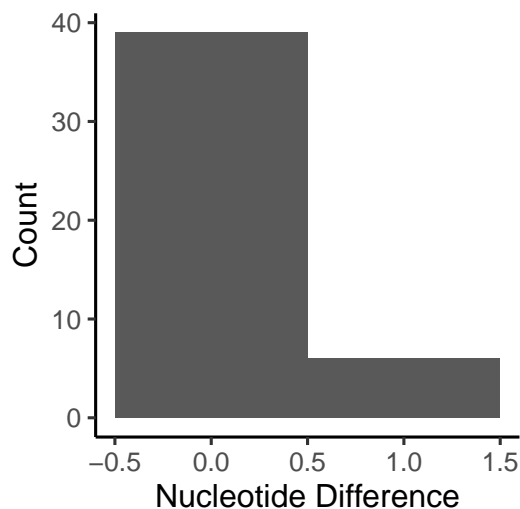
## IGHV1-3\*01

62 sequences assigned  
51 (82.3%) exact matches, in which:  
51 unique CDR3  
6 unique J



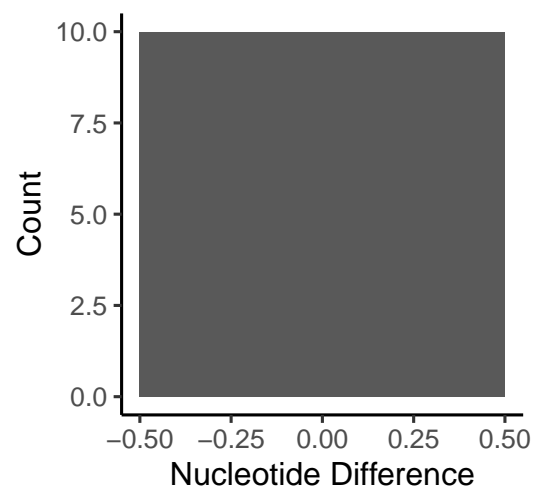
## IGHV1-24\*01

45 sequences assigned  
39 (86.7%) exact matches, in which:  
39 unique CDR3  
5 unique J



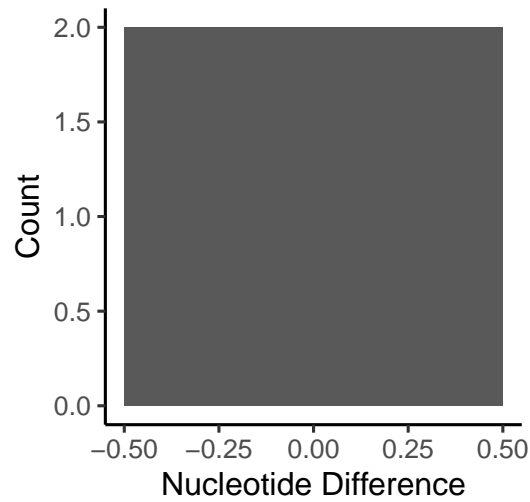
## IGHV1-58\*01

10 sequences assigned  
10 (100%) exact matches, in which:  
10 unique CDR3  
4 unique J



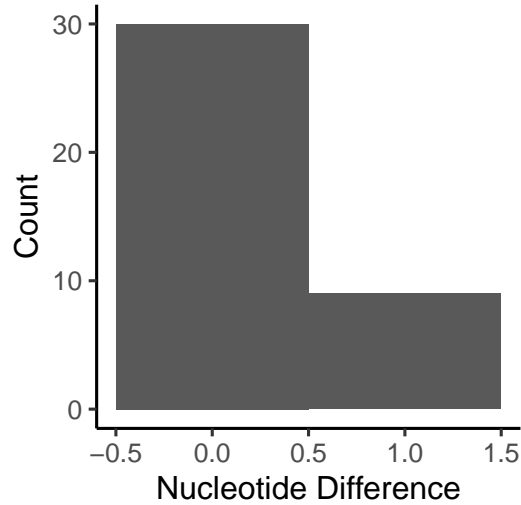
### IGHV1-58\*02

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



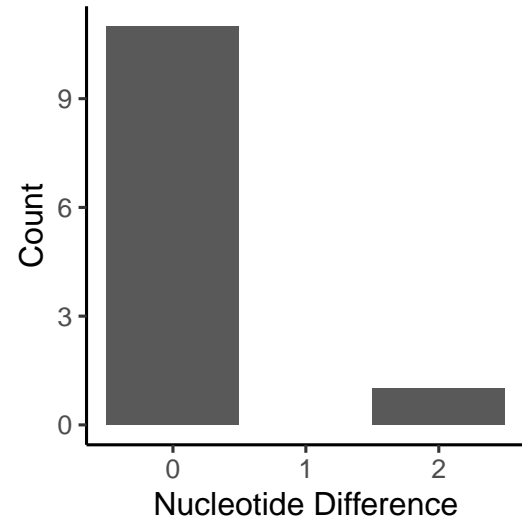
### IGHV2-5\*01

39 sequences assigned  
30 (76.9%) exact matches, in which:  
29 unique CDR3  
4 unique J



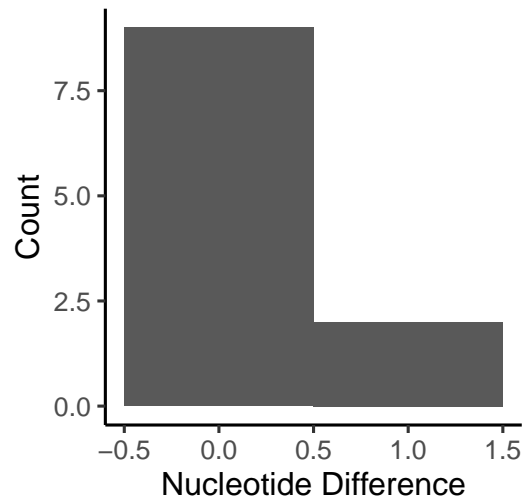
### IGHV2-70\*01

12 sequences assigned  
11 (91.7%) exact matches, in which:  
11 unique CDR3  
5 unique J



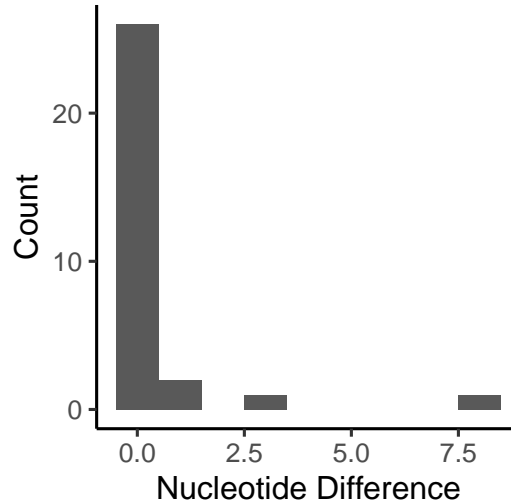
### IGHV1-69-2\*01

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



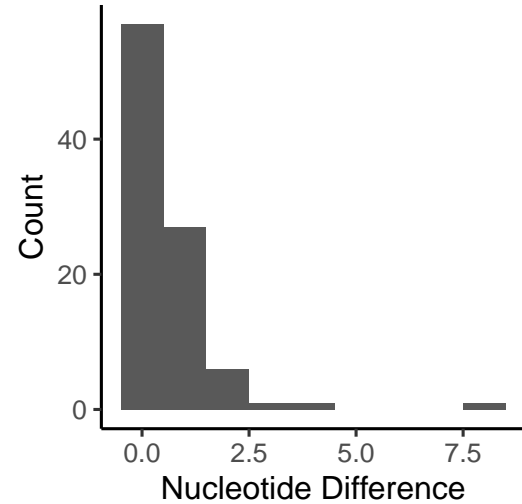
### IGHV2-5\*02

30 sequences assigned  
26 (86.7%) exact matches, in which:  
25 unique CDR3  
4 unique J



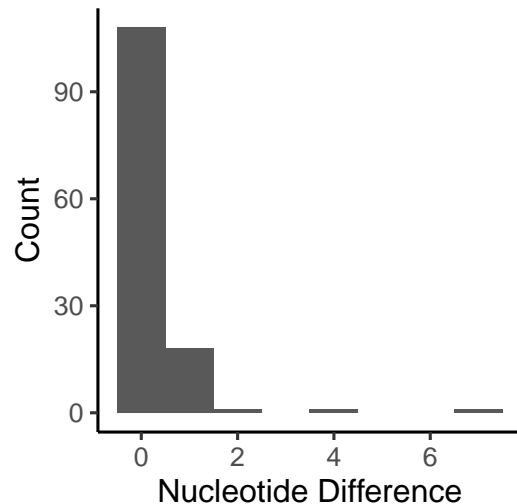
### IGHV3-7\*01

93 sequences assigned  
57 (61.3%) exact matches, in which:  
55 unique CDR3  
6 unique J



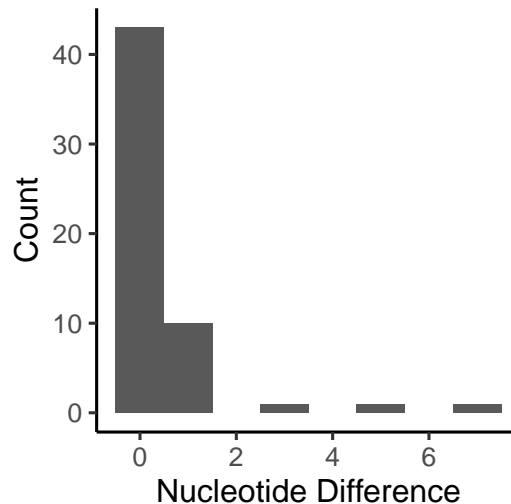
### IGHV1-69\*06

130 sequences assigned  
108 (83.1%) exact matches, in which:  
106 unique CDR3  
6 unique J



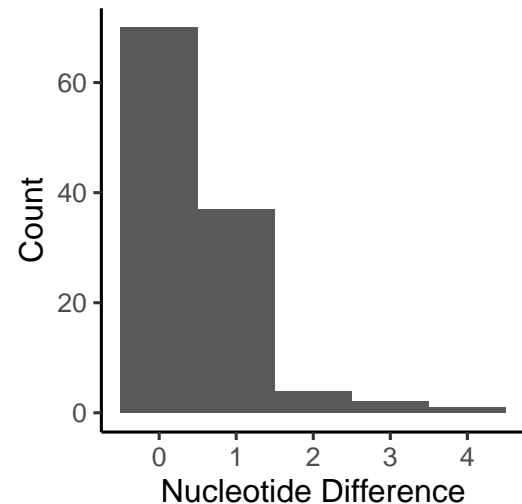
### IGHV2-26\*01

56 sequences assigned  
43 (76.8%) exact matches, in which:  
43 unique CDR3  
5 unique J



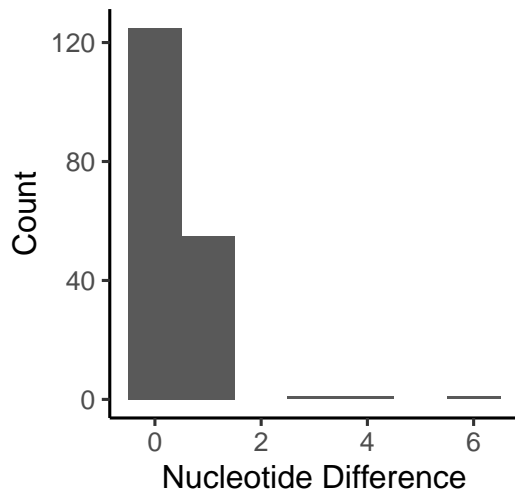
### IGHV3-7\*03

114 sequences assigned  
70 (61.4%) exact matches, in which:  
69 unique CDR3  
6 unique J



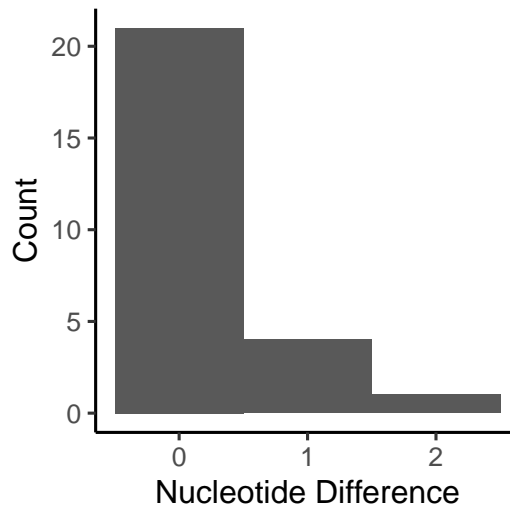
### IGHV3-9\*01

183 sequences assigned  
125 (68.3%) exact matches, in which:  
125 unique CDR3  
6 unique J



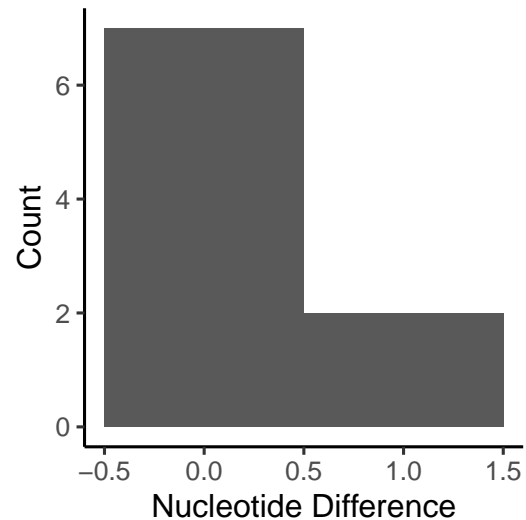
### IGHV3-13\*01

26 sequences assigned  
21 (80.8%) exact matches, in which:  
20 unique CDR3  
5 unique J



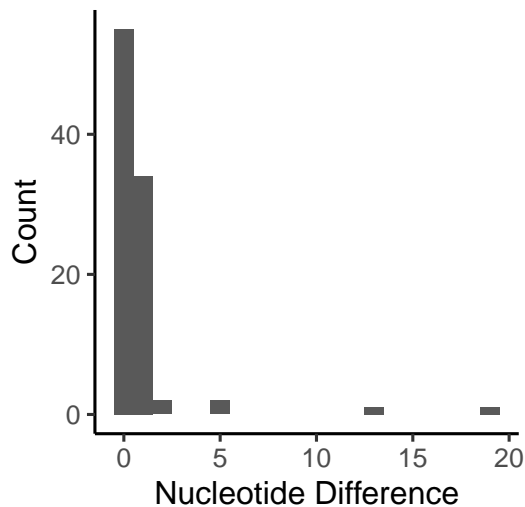
### IGHV3-20\*01

9 sequences assigned  
7 (77.8%) exact matches, in which:  
7 unique CDR3  
3 unique J



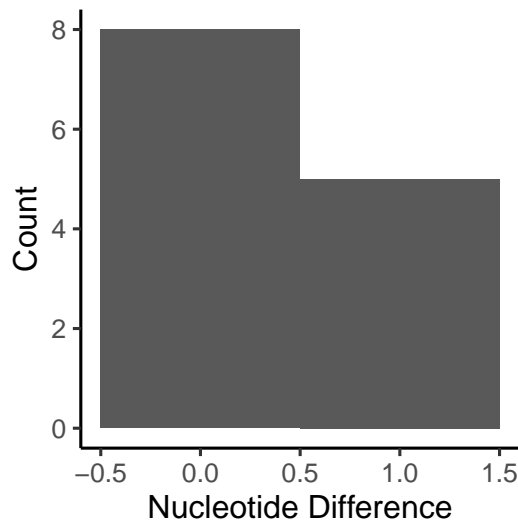
### IGHV3-11\*01

95 sequences assigned  
55 (57.9%) exact matches, in which:  
54 unique CDR3  
6 unique J



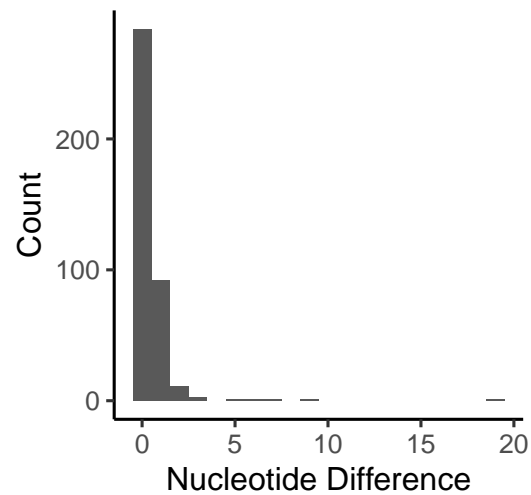
### IGHV3-13\*05

13 sequences assigned  
8 (61.5%) exact matches, in which:  
8 unique CDR3  
4 unique J



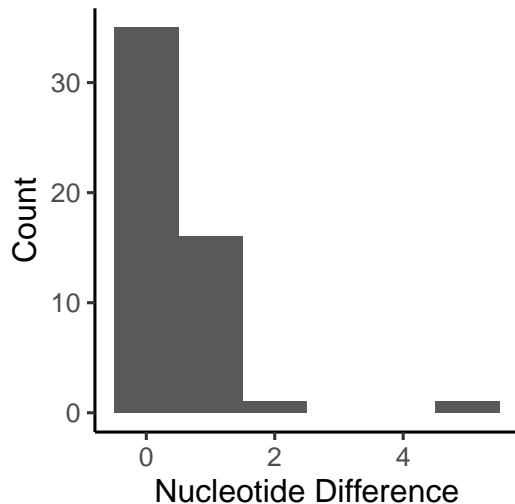
### IGHV3-21\*01

397 sequences assigned  
284 (71.5%) exact matches, in which:  
280 unique CDR3  
6 unique J



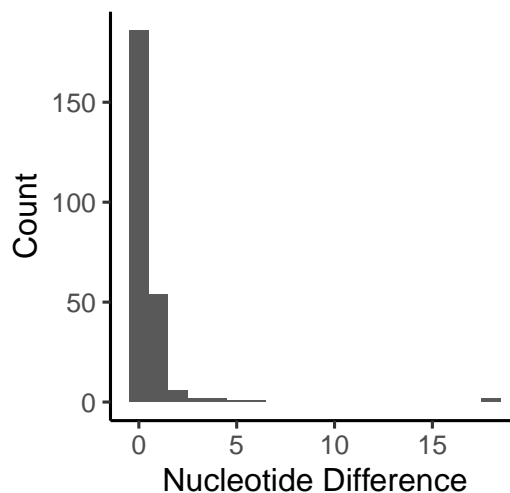
### IGHV3-11\*06

53 sequences assigned  
35 (66%) exact matches, in which:  
35 unique CDR3  
5 unique J



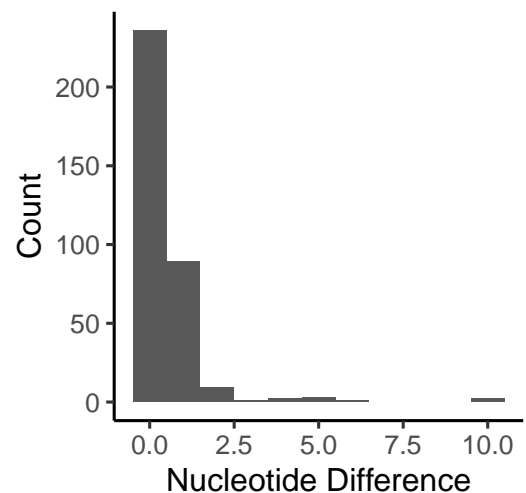
### IGHV3-15\*01

254 sequences assigned  
186 (73.2%) exact matches, in which:  
181 unique CDR3  
5 unique J



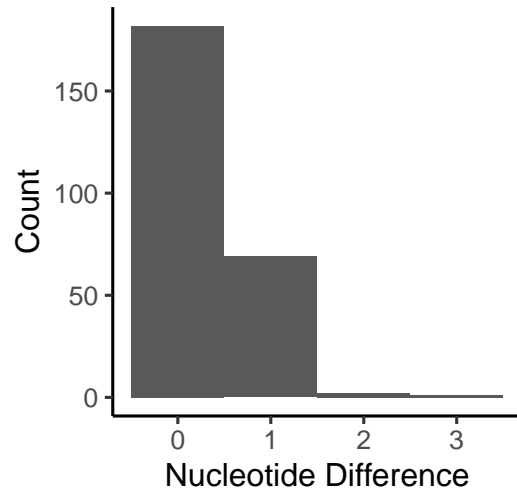
### IGHV3-23\*04

351 sequences assigned  
236 (67.2%) exact matches, in which:  
235 unique CDR3  
6 unique J



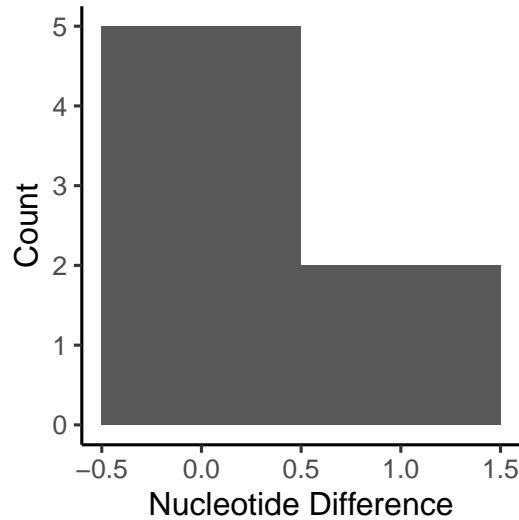
### IGHV3-30\*01

254 sequences assigned  
182 (71.7%) exact matches, in which:  
177 unique CDR3  
6 unique J



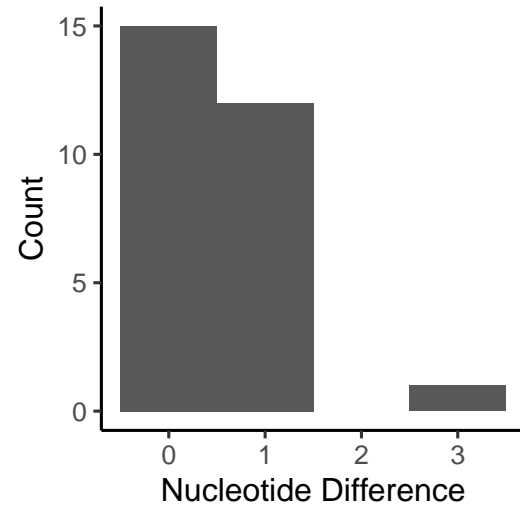
### IGHV3-43\*01

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



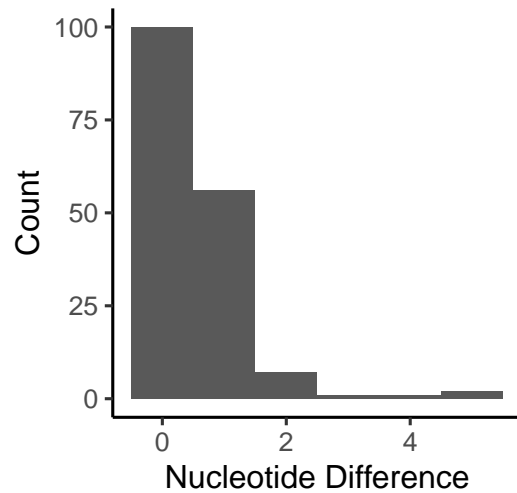
### IGHV3-49\*03

28 sequences assigned  
15 (53.6%) exact matches, in which:  
15 unique CDR3  
5 unique J



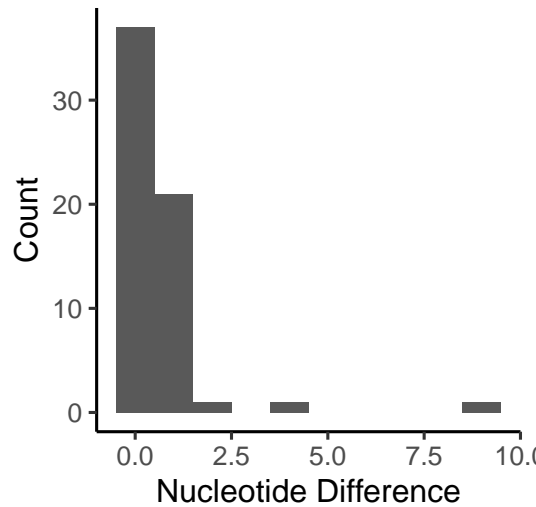
### IGHV3-30-3\*01

167 sequences assigned  
100 (59.9%) exact matches, in which:  
100 unique CDR3  
6 unique J



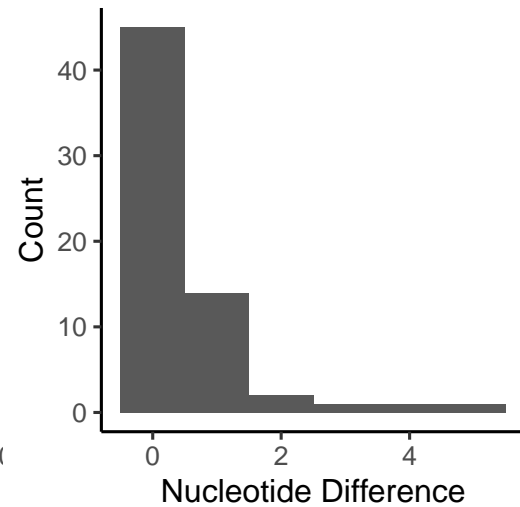
### IGHV3-48\*01

61 sequences assigned  
37 (60.7%) exact matches, in which:  
37 unique CDR3  
5 unique J



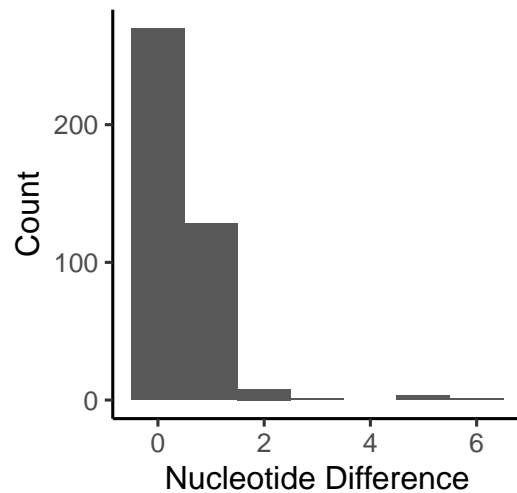
### IGHV3-49\*04

64 sequences assigned  
45 (70.3%) exact matches, in which:  
44 unique CDR3  
5 unique J



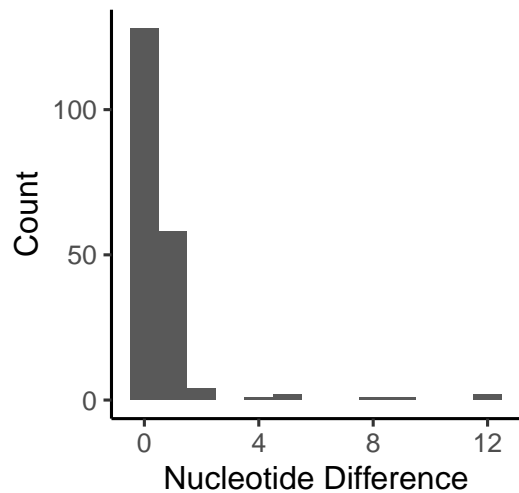
### IGHV3-33\*01

413 sequences assigned  
270 (65.4%) exact matches, in which:  
266 unique CDR3  
6 unique J



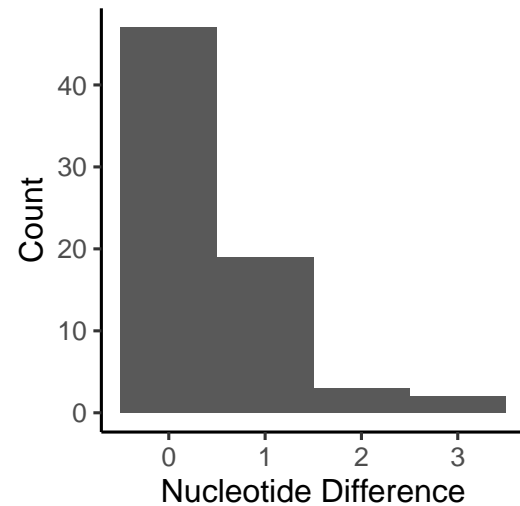
### IGHV3-48\*03

197 sequences assigned  
128 (65%) exact matches, in which:  
125 unique CDR3  
6 unique J



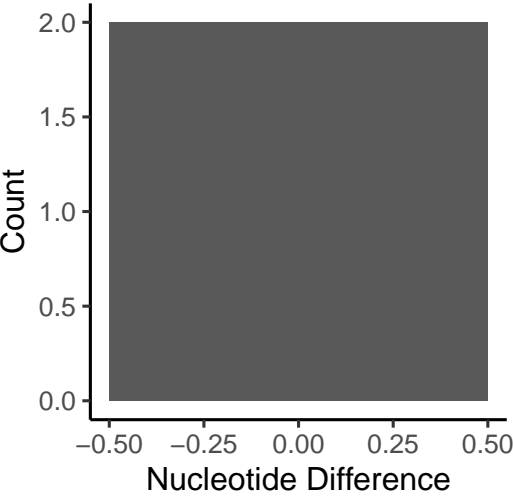
### IGHV3-53\*02

71 sequences assigned  
47 (66.2%) exact matches, in which:  
47 unique CDR3  
5 unique J



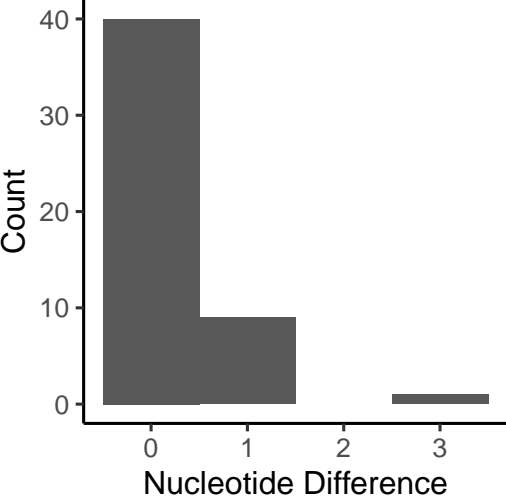
IGHV3-64\*02

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



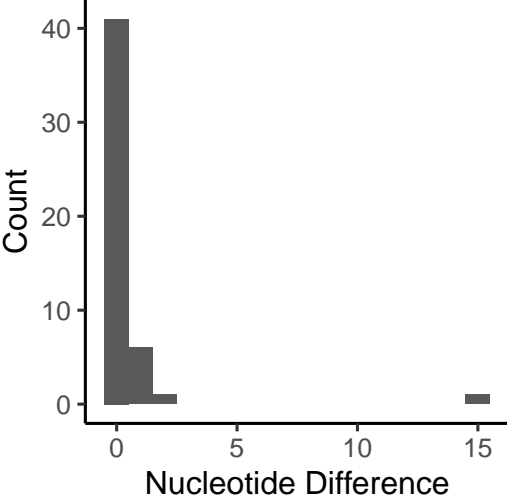
IGHV3-73\*02

50 sequences assigned  
40 (80%) exact matches, in which:  
38 unique CDR3  
4 unique J



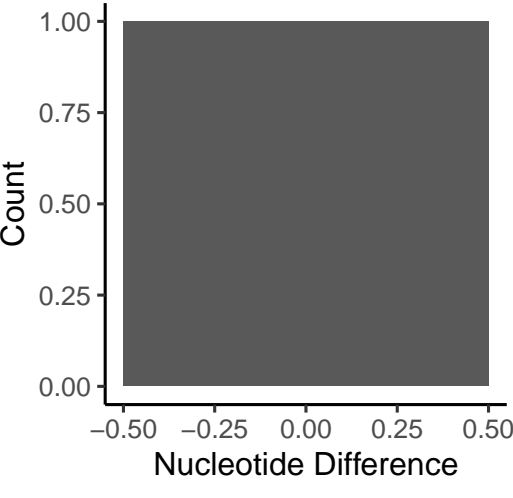
IGHV3-64D\*06

49 sequences assigned  
41 (83.7%) exact matches, in which:  
40 unique CDR3  
5 unique J



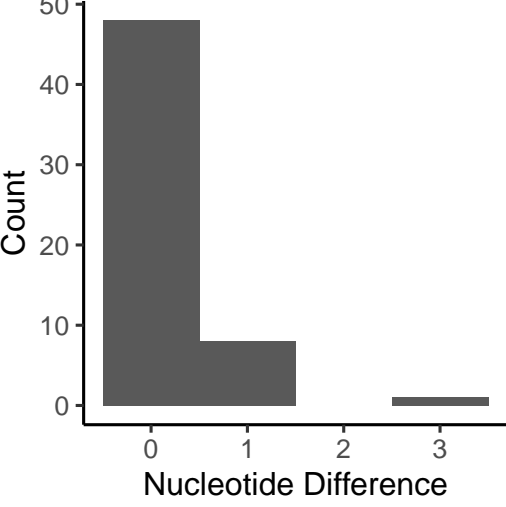
IGHV3-66\*03

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



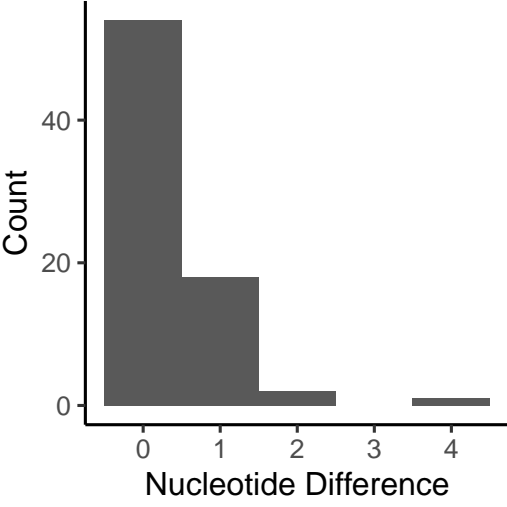
IGHV3-74\*01

57 sequences assigned  
48 (84.2%) exact matches, in which:  
48 unique CDR3  
5 unique J



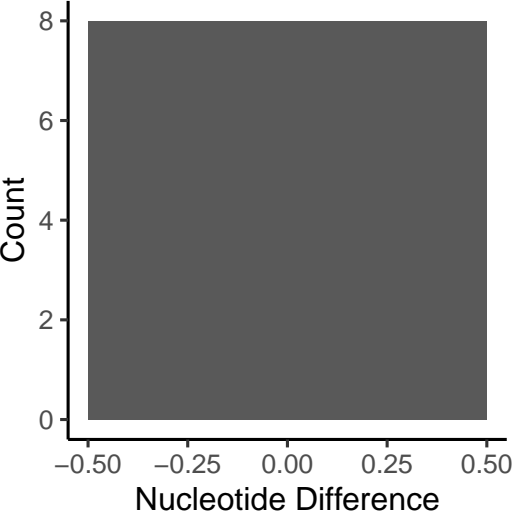
IGHV4-4\*02

75 sequences assigned  
54 (72%) exact matches, in which:  
53 unique CDR3  
6 unique J



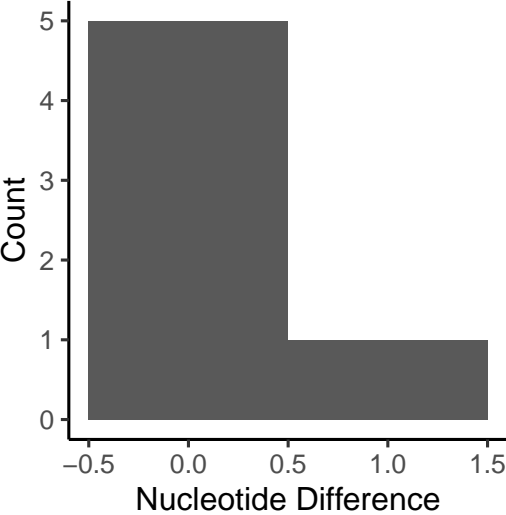
IGHV3-72\*01

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



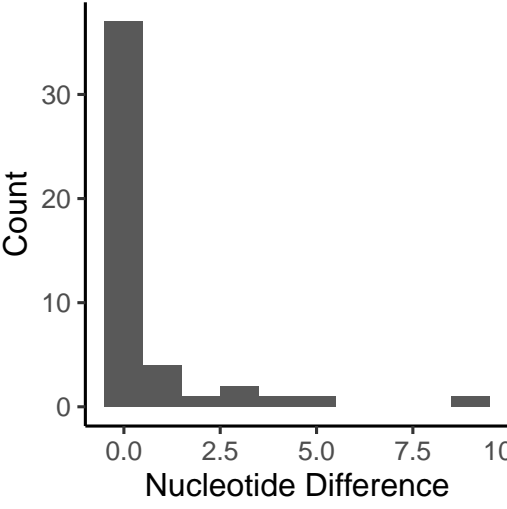
IGHV3-43D\*04

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



IGHV4-4\*07

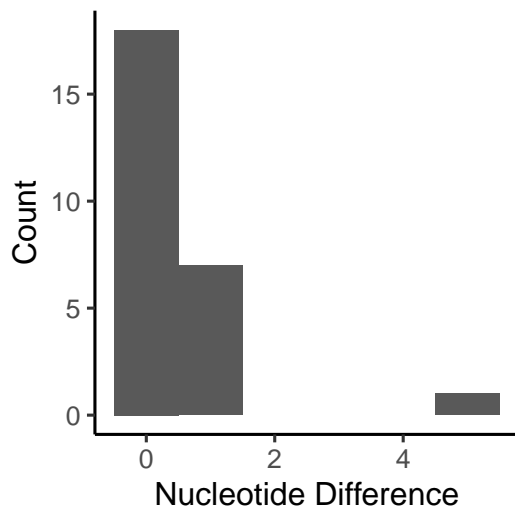
47 sequences assigned  
37 (78.7%) exact matches, in which:  
33 unique CDR3  
5 unique J





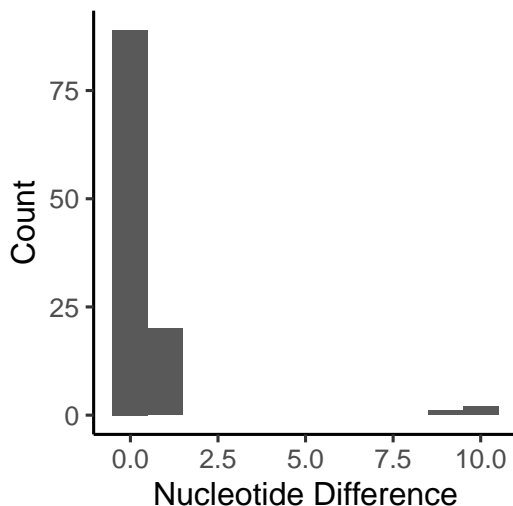
### IGHV4-30-2\*01

26 sequences assigned  
18 (69.2%) exact matches, in which:  
18 unique CDR3  
4 unique J



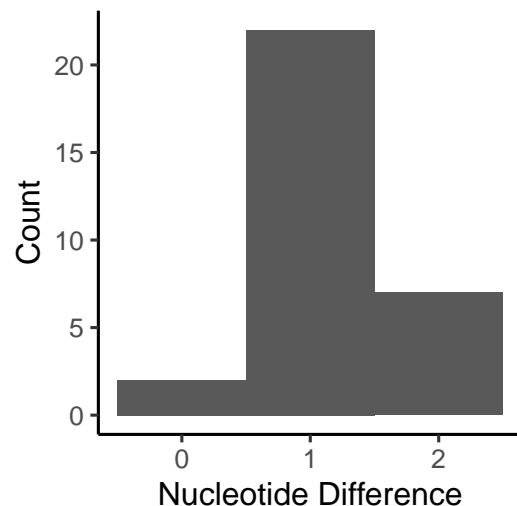
### IGHV4-31\*03

112 sequences assigned  
89 (79.5%) exact matches, in which:  
89 unique CDR3  
5 unique J



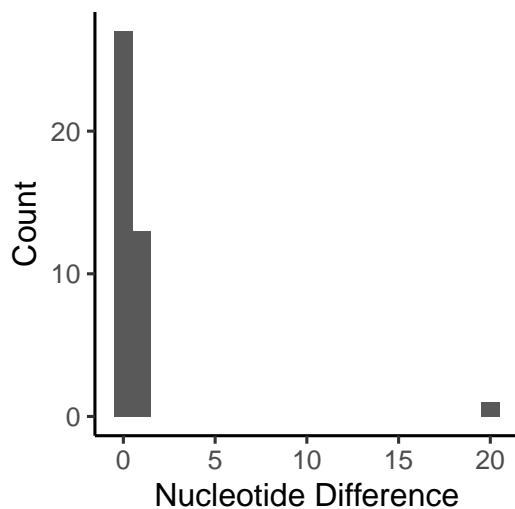
### IGHV4-38-2\*02

31 sequences assigned  
2 (6.5%) exact matches, in which:  
2 unique CDR3  
2 unique J



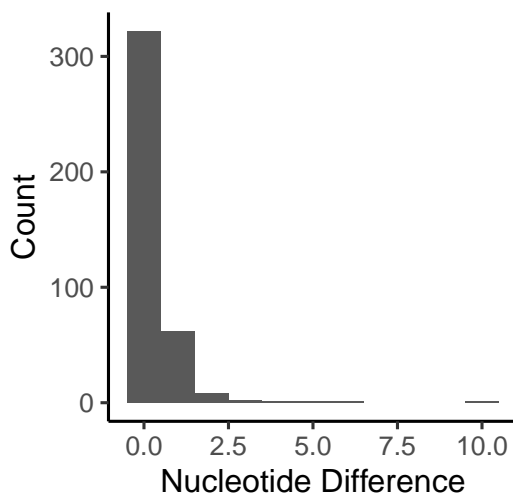
### IGHV4-30-4\*01

41 sequences assigned  
27 (65.9%) exact matches, in which:  
25 unique CDR3  
4 unique J



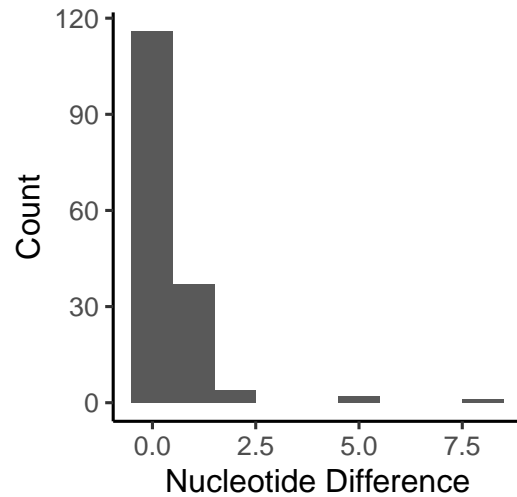
### IGHV4-34\*01

399 sequences assigned  
322 (80.7%) exact matches, in which:  
318 unique CDR3  
6 unique J



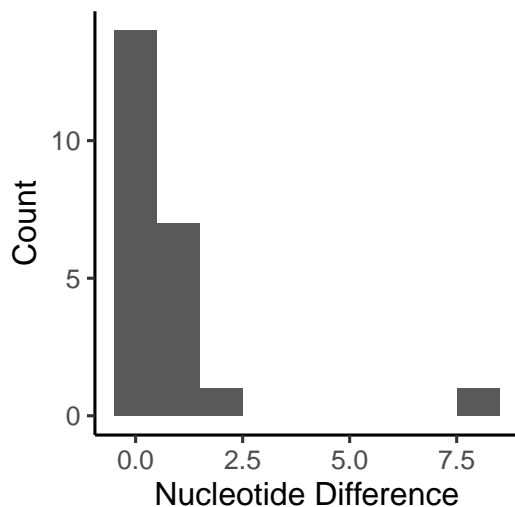
### IGHV4-39\*01

160 sequences assigned  
116 (72.5%) exact matches, in which:  
111 unique CDR3  
6 unique J



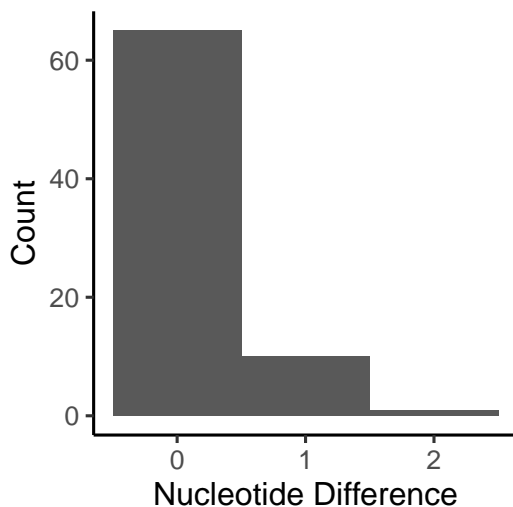
### IGHV4-31\*01

23 sequences assigned  
14 (60.9%) exact matches, in which:  
14 unique CDR3  
3 unique J



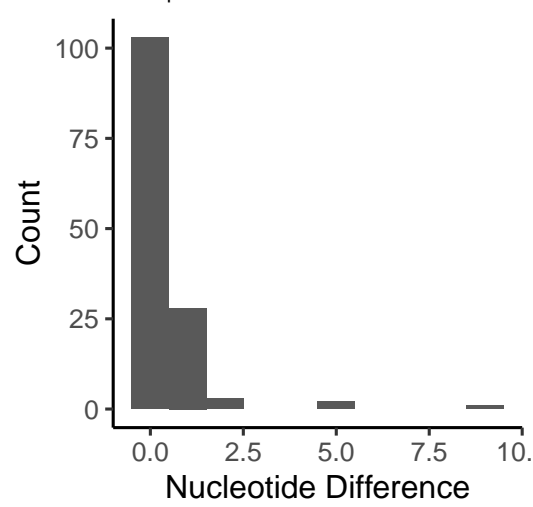
### IGHV4-38-2\*01

76 sequences assigned  
65 (85.5%) exact matches, in which:  
65 unique CDR3  
6 unique J



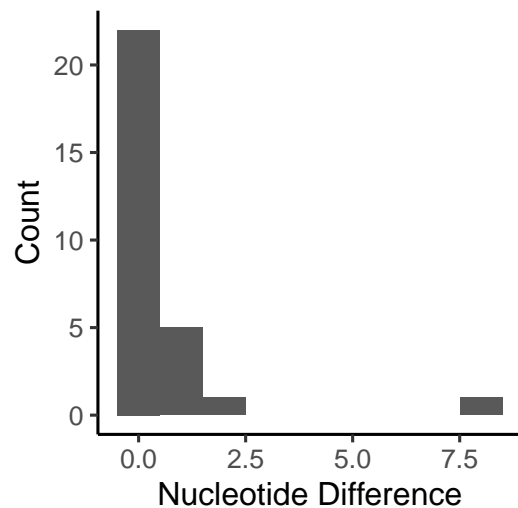
### IGHV4-59\*01

138 sequences assigned  
103 (74.6%) exact matches, in which:  
102 unique CDR3  
5 unique J



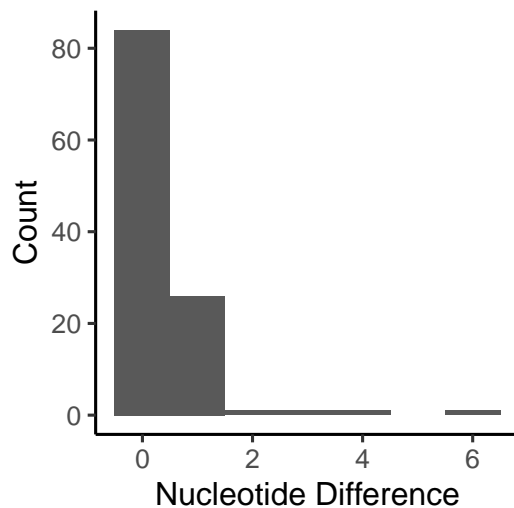
## IGHV4-61\*01

29 sequences assigned  
22 (75.9%) exact matches, in which:  
22 unique CDR3  
5 unique J



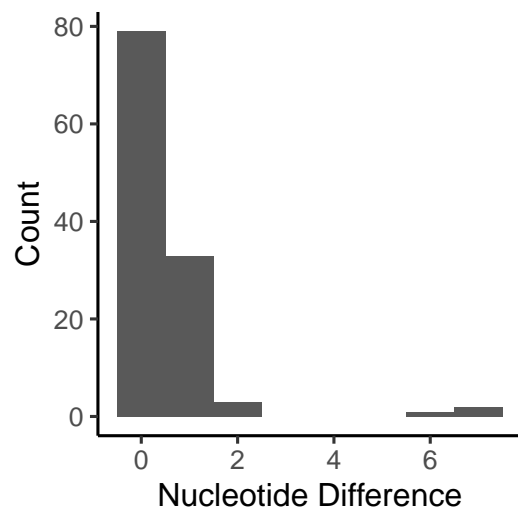
## IGHV5-51\*01

114 sequences assigned  
84 (73.7%) exact matches, in which:  
83 unique CDR3  
5 unique J



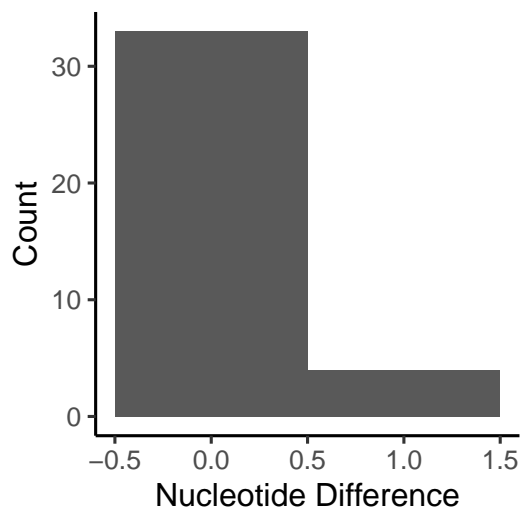
## IGHV4-61\*02\_A234G

118 sequences assigned  
79 (66.9%) exact matches, in which:  
79 unique CDR3  
5 unique J



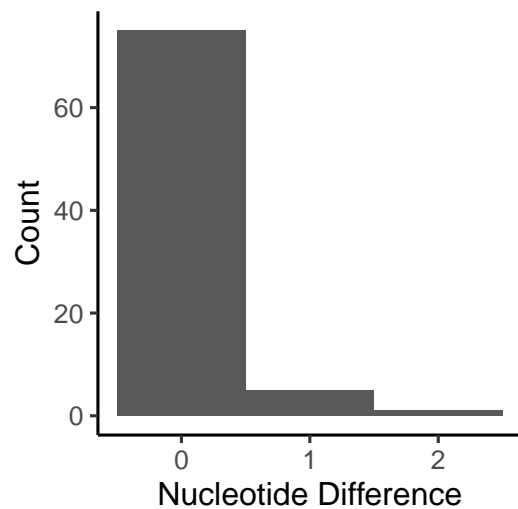
## IGHV5-51\*03

37 sequences assigned  
33 (89.2%) exact matches, in which:  
33 unique CDR3  
5 unique J



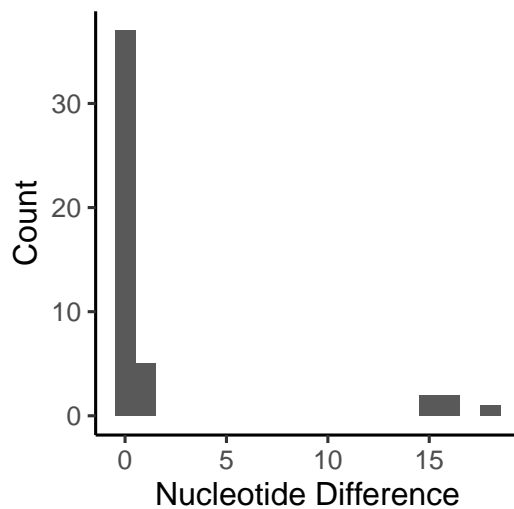
## IGHV5-10-1\*03

81 sequences assigned  
75 (92.6%) exact matches, in which:  
75 unique CDR3  
6 unique J

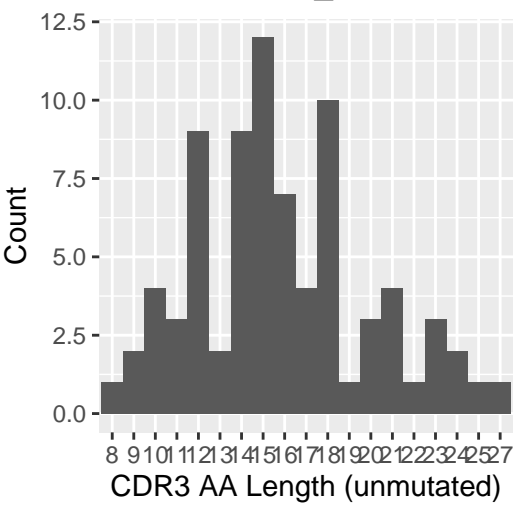


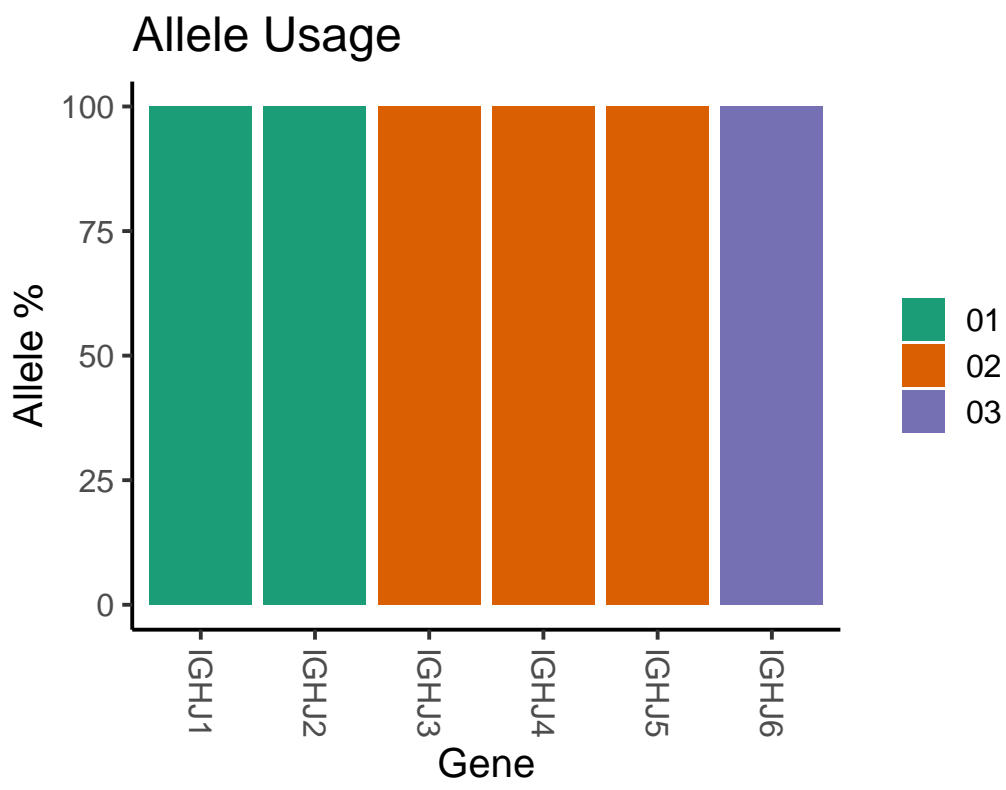
## IGHV6-1\*01

47 sequences assigned  
37 (78.7%) exact matches, in which:  
35 unique CDR3  
5 unique J



IGHV4-61\*02\_A234G





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.