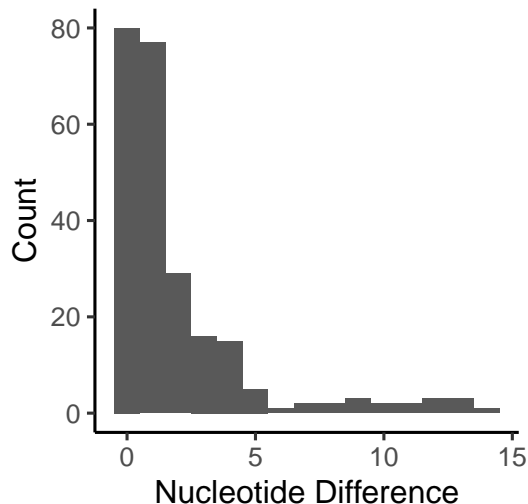


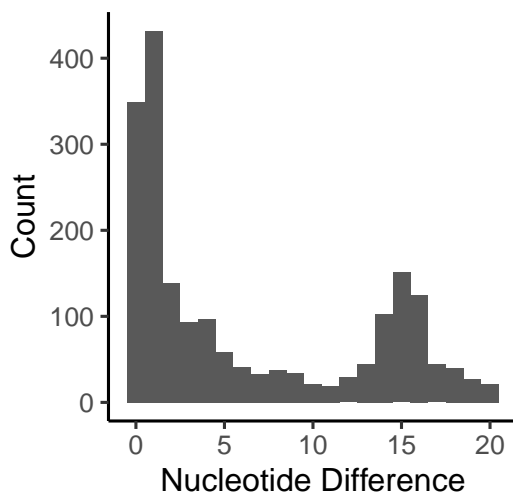
## IGHV1S10\*01\_C26A\_G16

244 sequences assigned  
80 (32.8%) exact matches, in which:  
72 unique CDR3  
6 unique J



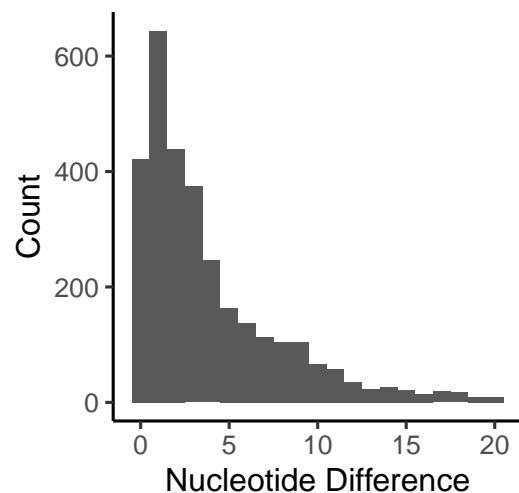
## IGHV2S1\*01\_C95G\_A11

2209 sequences assigned  
349 (15.8%) exact matches, in which:  
294 unique CDR3  
6 unique J



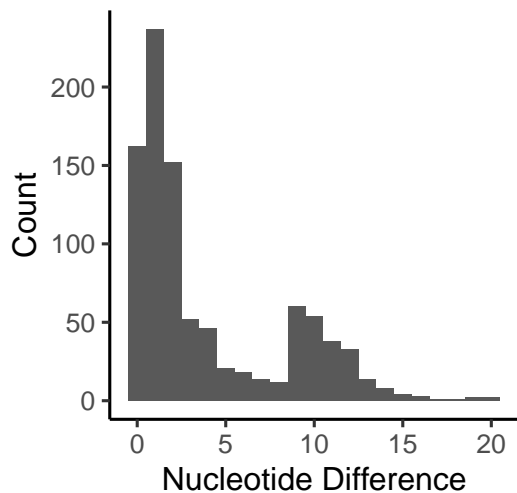
## IGHV2S2\*01\_C6G\_G115

3124 sequences assigned  
421 (13.5%) exact matches, in which:  
366 unique CDR3  
6 unique J



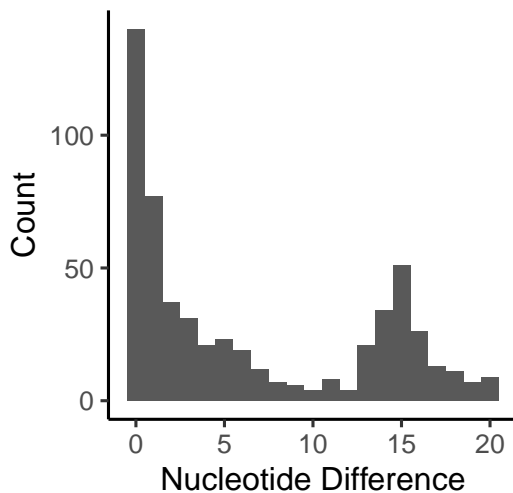
## IGHV1S10\*01\_G167T\_A'

1055 sequences assigned  
162 (15.4%) exact matches, in which:  
147 unique CDR3  
6 unique J



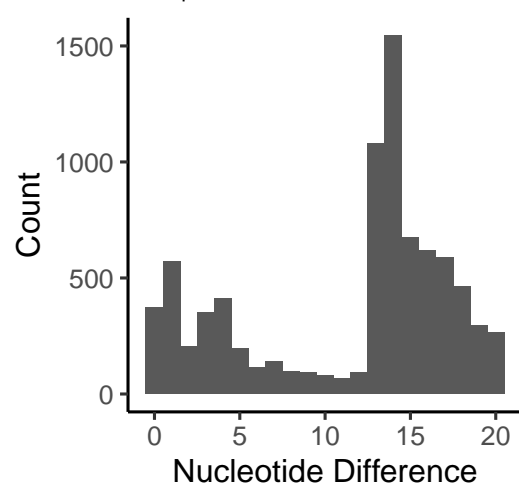
## IGHV2S1\*01\_C95G\_A11

622 sequences assigned  
140 (22.5%) exact matches, in which:  
133 unique CDR3  
6 unique J



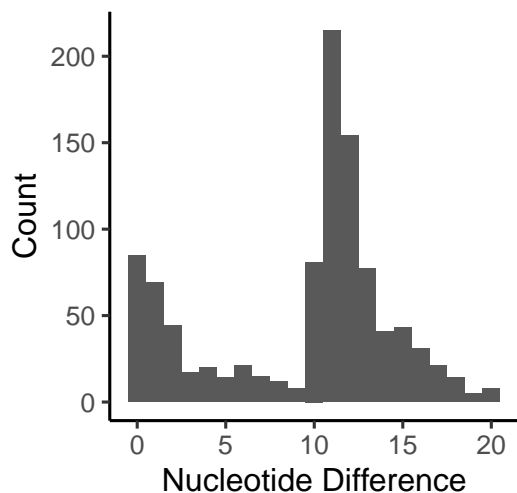
## IGHV3S11\*01\_T51A\_C7

11288 sequences assigned  
372 (3.3%) exact matches, in which:  
311 unique CDR3  
6 unique J



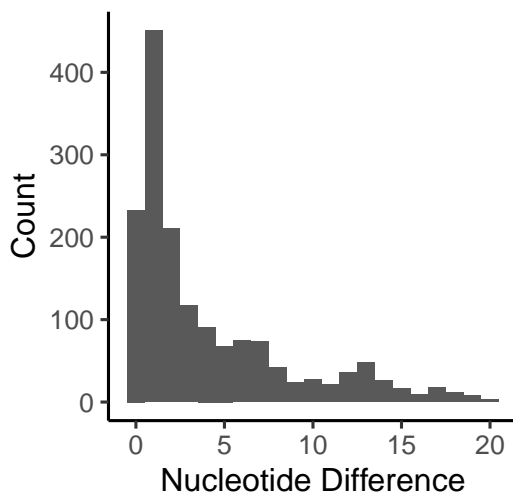
## IGHV1S9\*01\_G18A\_G49

1315 sequences assigned  
85 (6.5%) exact matches, in which:  
78 unique CDR3  
6 unique J



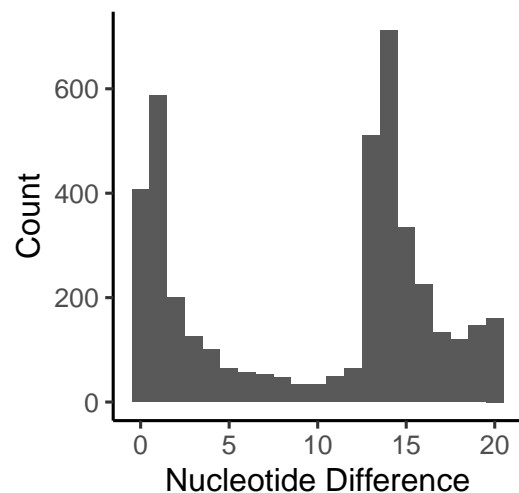
## IGHV2S2\*01\_A36G\_G95

1731 sequences assigned  
233 (13.5%) exact matches, in which:  
199 unique CDR3  
6 unique J



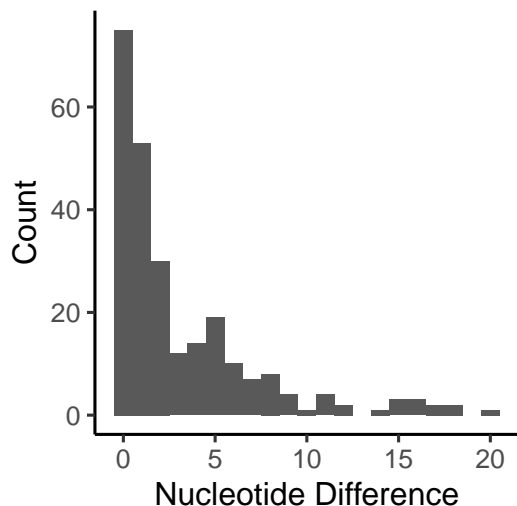
## IGHV3S16\*01\_T14C\_A11

4776 sequences assigned  
407 (8.5%) exact matches, in which:  
344 unique CDR3  
6 unique J



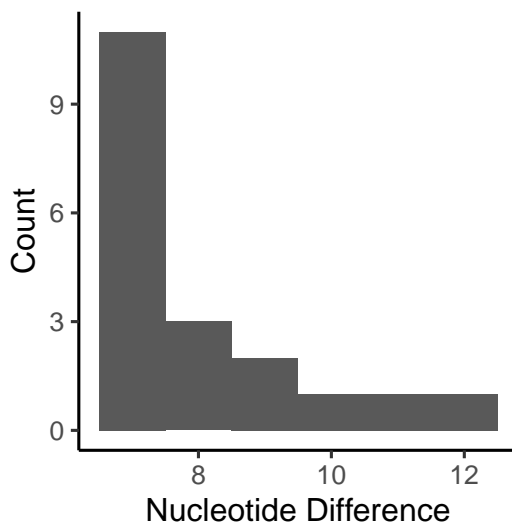
### IGHV3S18\*01\_G3A\_C27A

1010 sequences assigned  
75 (7.4%) exact matches, in which:  
70 unique CDR3  
6 unique J



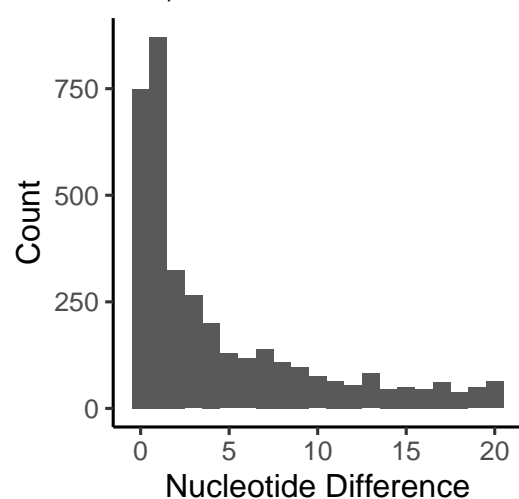
### IGHV3S21\*01

19 sequences assigned  
No exact matches.



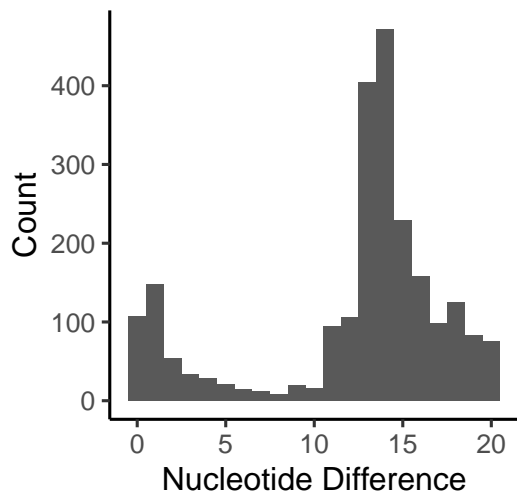
### IGHV3S32\*01\_C114T\_T1

4027 sequences assigned  
750 (18.6%) exact matches, in which:  
643 unique CDR3  
6 unique J



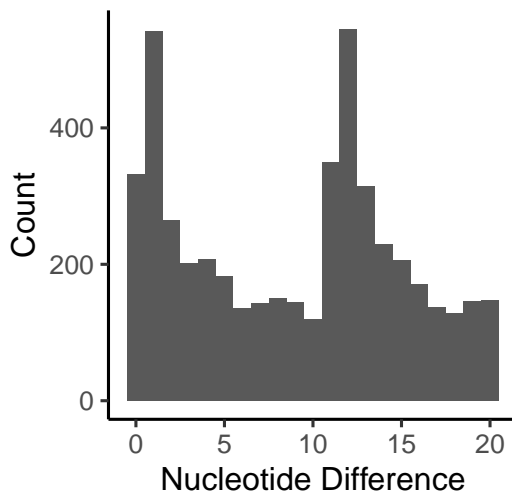
### IGHV3S18\*01\_T121C\_C'

3103 sequences assigned  
107 (3.4%) exact matches, in which:  
94 unique CDR3  
6 unique J



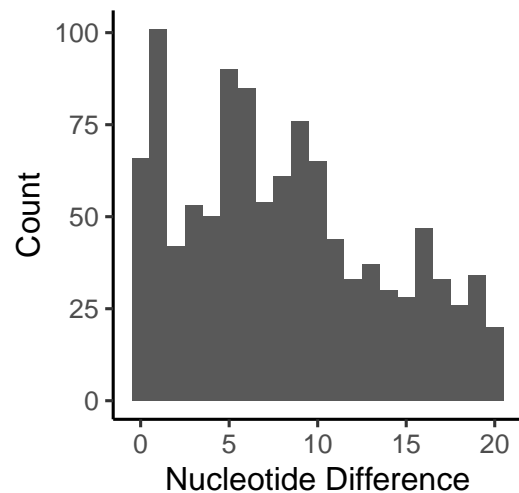
### IGHV3S22\*01\_C61G\_A1:

6023 sequences assigned  
332 (5.5%) exact matches, in which:  
284 unique CDR3  
6 unique J



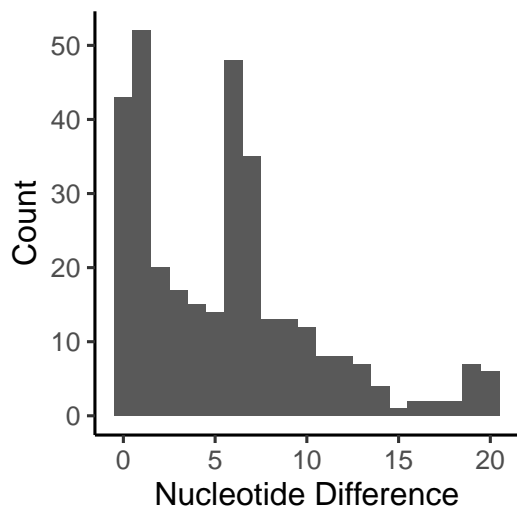
### IGHV3S40\*01\_A131G\_C

1397 sequences assigned  
66 (4.7%) exact matches, in which:  
59 unique CDR3  
6 unique J



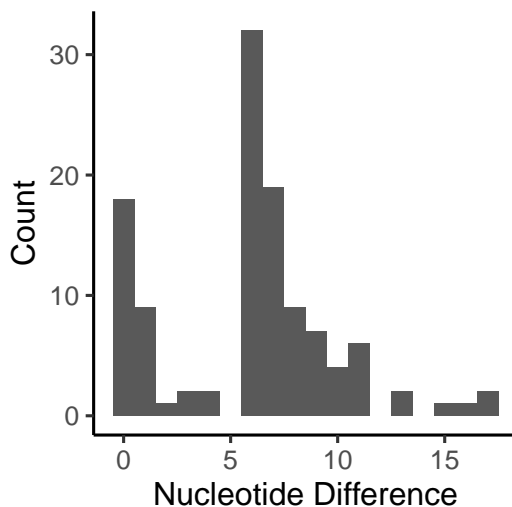
### IGHV3S20\*01\_C34T\_A10:

358 sequences assigned  
43 (12%) exact matches, in which:  
40 unique CDR3  
6 unique J



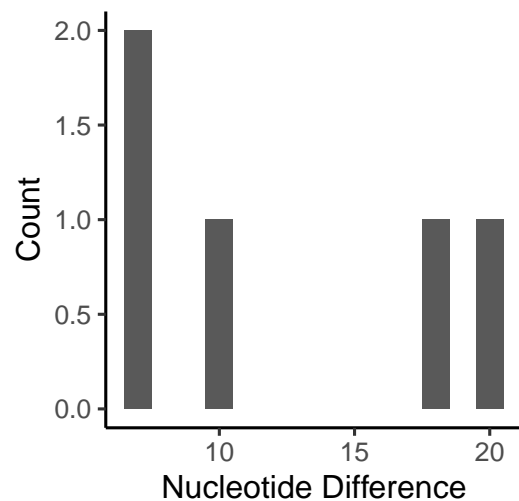
### IGHV3S26\*01\_T114C\_T1'

486 sequences assigned  
18 (3.7%) exact matches, in which:  
17 unique CDR3  
6 unique J



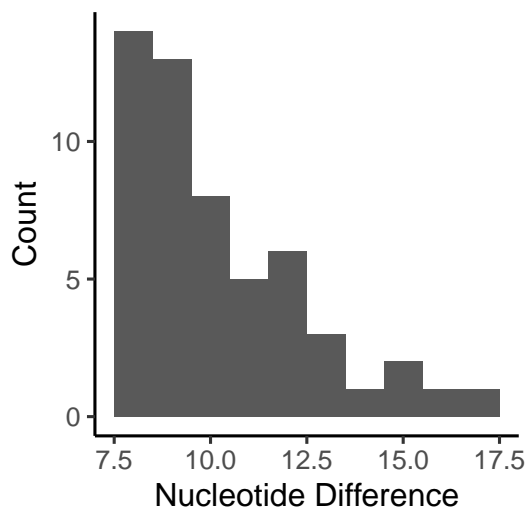
### IGHV3S46\*01

6 sequences assigned  
No exact matches.



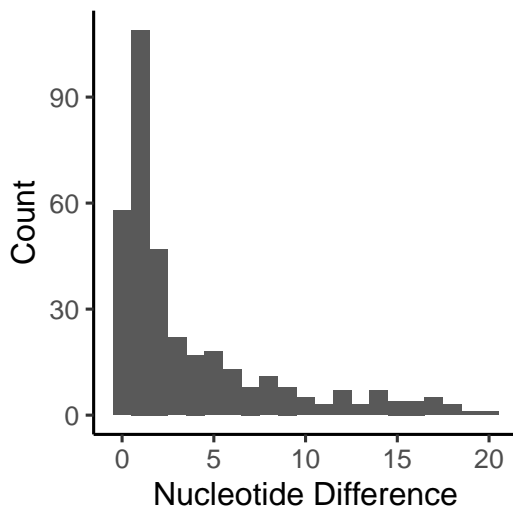
### IGHV3S7\*01

85 sequences assigned  
No exact matches.



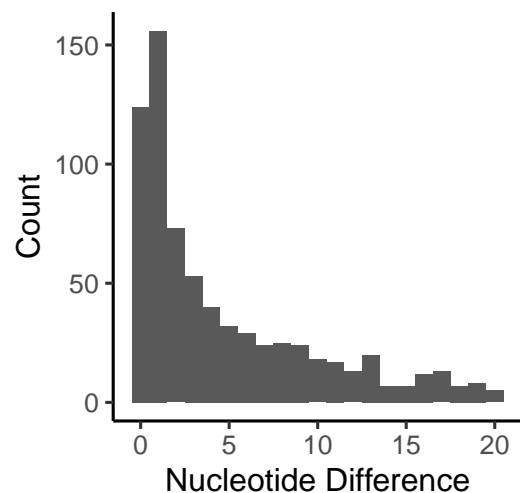
### IGHV4S14\*01\_A116G\_C1

405 sequences assigned  
58 (14.3%) exact matches, in which:  
57 unique CDR3  
6 unique J



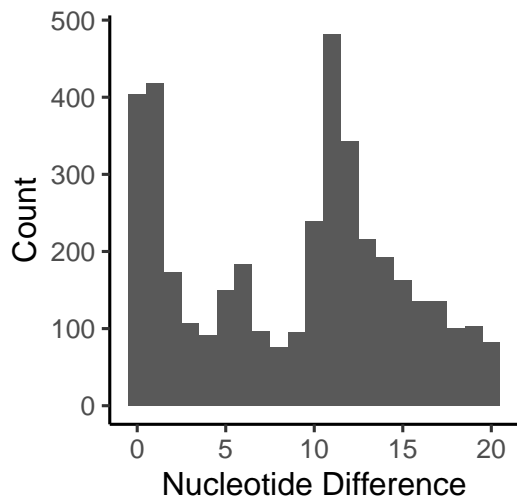
### IGHV4S14\*01\_G85T\_G88

770 sequences assigned  
124 (16.1%) exact matches, in which:  
114 unique CDR3  
6 unique J



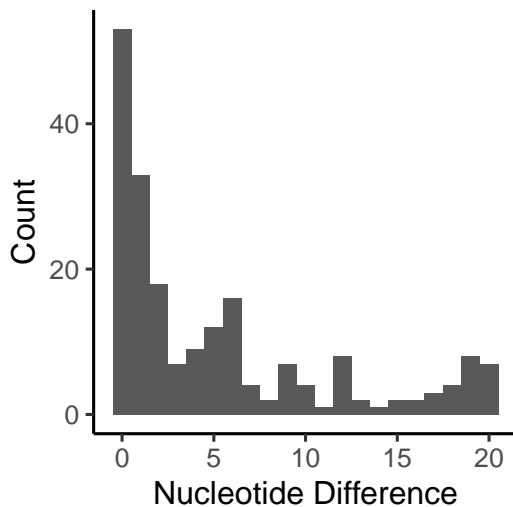
### IGHV4S11\*01\_C53T\_C6'

4743 sequences assigned  
404 (8.5%) exact matches, in which:  
357 unique CDR3  
6 unique J



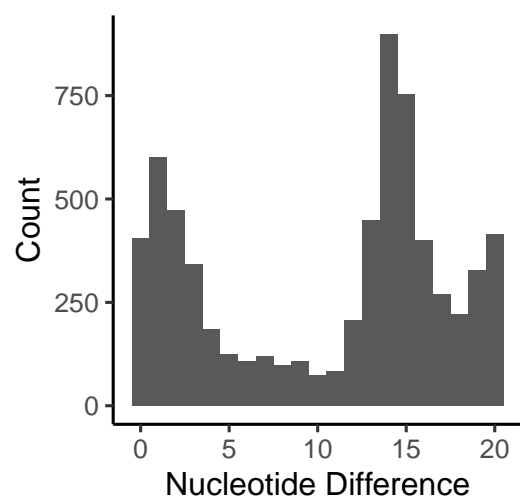
### IGHV4S14\*01\_G70A\_T90

275 sequences assigned  
53 (19.3%) exact matches, in which:  
51 unique CDR3  
6 unique J



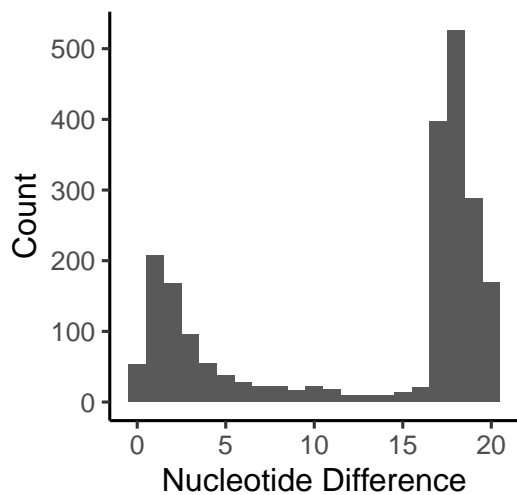
### IGHV4S18\*01\_C34G\_T1

10830 sequences assigned  
405 (3.7%) exact matches, in which:  
376 unique CDR3  
6 unique J



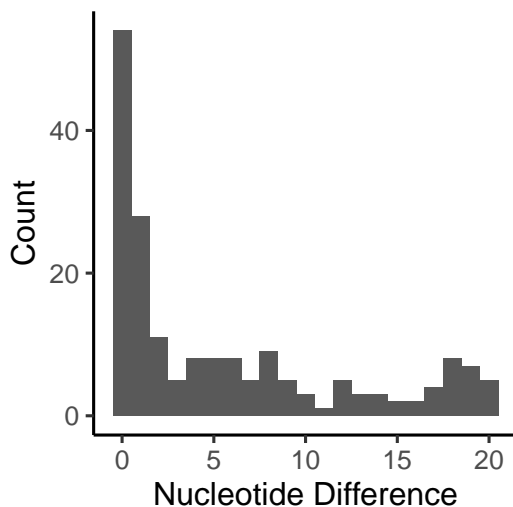
### IGHV4S12\*01\_G34C\_C9

2983 sequences assigned  
53 (1.8%) exact matches, in which:  
53 unique CDR3  
6 unique J



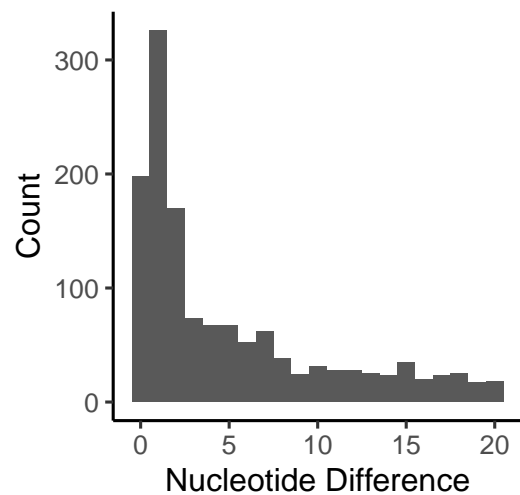
### IGHV4S14\*01\_G70A\_T90

250 sequences assigned  
54 (21.6%) exact matches, in which:  
52 unique CDR3  
6 unique J



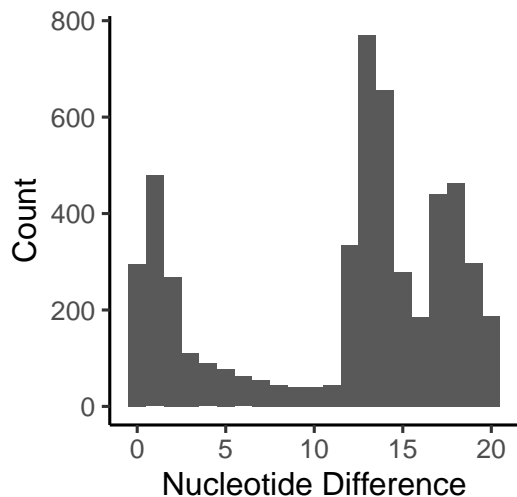
### IGHV4S19\*01\_A166C\_G

2172 sequences assigned  
198 (9.1%) exact matches, in which:  
188 unique CDR3  
6 unique J



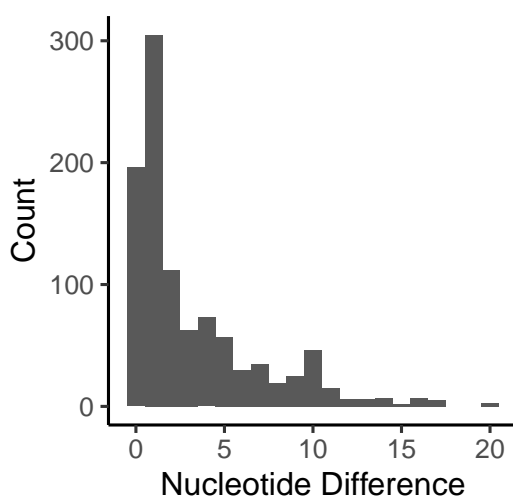
### IGHV4S7\*01\_A33G\_C11A

6437 sequences assigned  
295 (4.6%) exact matches, in which:  
281 unique CDR3  
6 unique J



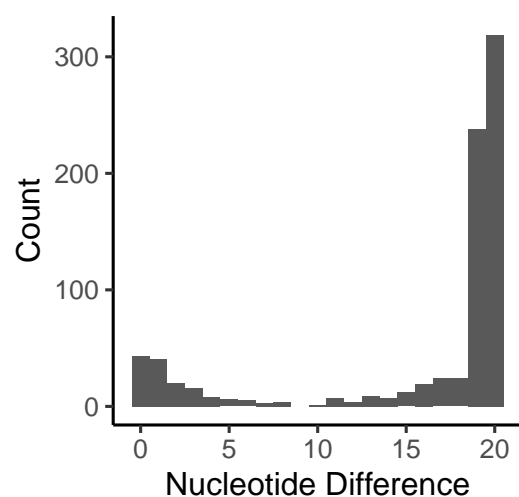
### IGHV5S1\*01\_G51A\_A10G

1016 sequences assigned  
196 (19.3%) exact matches, in which:  
150 unique CDR3  
6 unique J



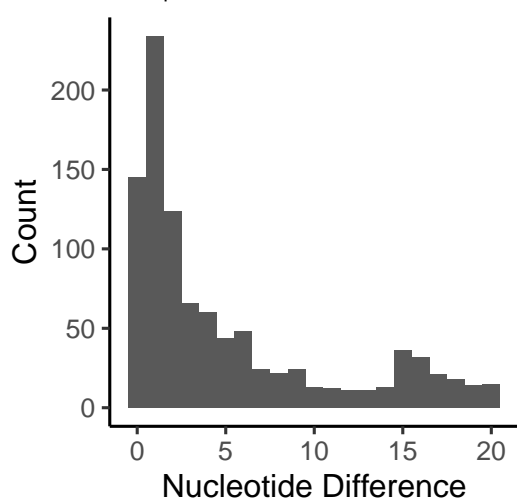
### IGHV3-14\*01\_G110A\_C11A

2550 sequences assigned  
43 (1.7%) exact matches, in which:  
37 unique CDR3  
6 unique J



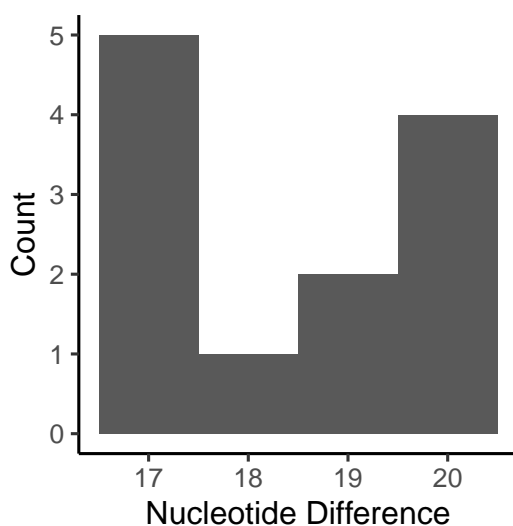
### IGHV4S9\*01\_G32C\_C34A

1217 sequences assigned  
145 (11.9%) exact matches, in which:  
135 unique CDR3  
6 unique J



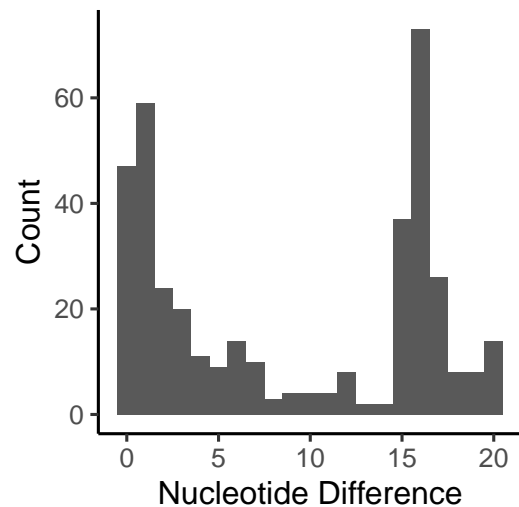
### IGHV7S3\*01

849 sequences assigned  
No exact matches.



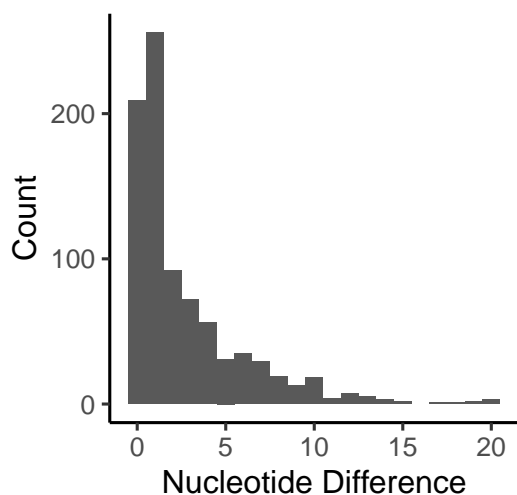
### IGHV3-22\*01\_C10T\_G51A

4128 sequences assigned  
47 (1.1%) exact matches, in which:  
40 unique CDR3  
6 unique J



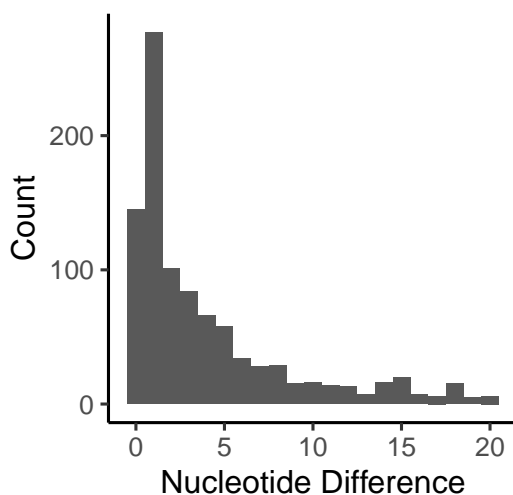
### IGHV5S1\*01\_C45T\_G51A

872 sequences assigned  
209 (24%) exact matches, in which:  
181 unique CDR3  
6 unique J



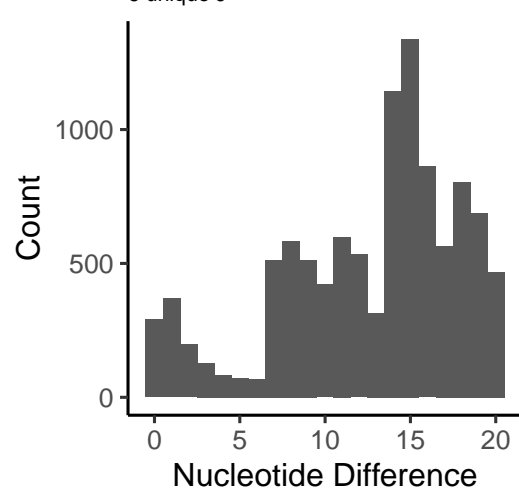
### IGHV2-1\*01\_G6C\_G95C

1052 sequences assigned  
145 (13.8%) exact matches, in which:  
127 unique CDR3  
6 unique J



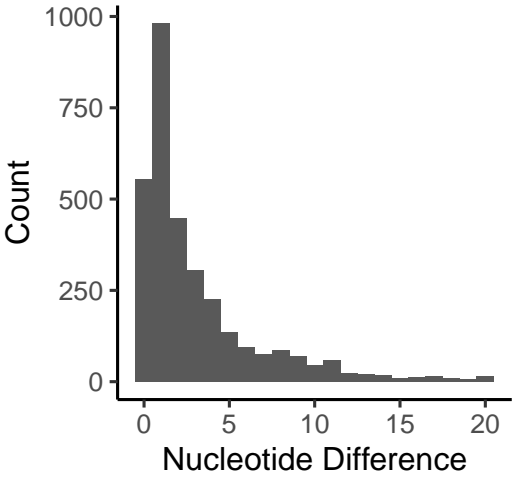
### IGHV4-2\*01\_A112G\_A10G

14162 sequences assigned  
291 (2.1%) exact matches, in which:  
272 unique CDR3  
6 unique J



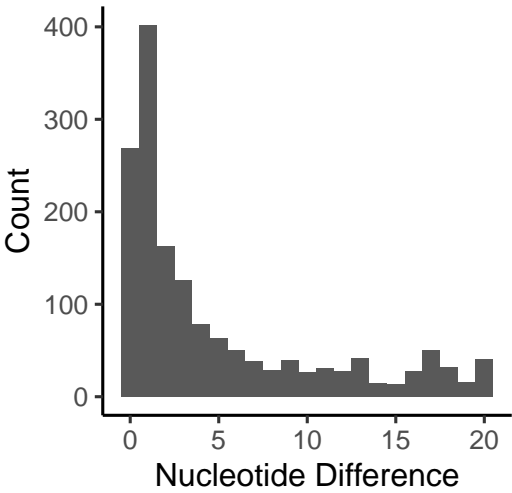
# IGHV5-2\*01\_T298A

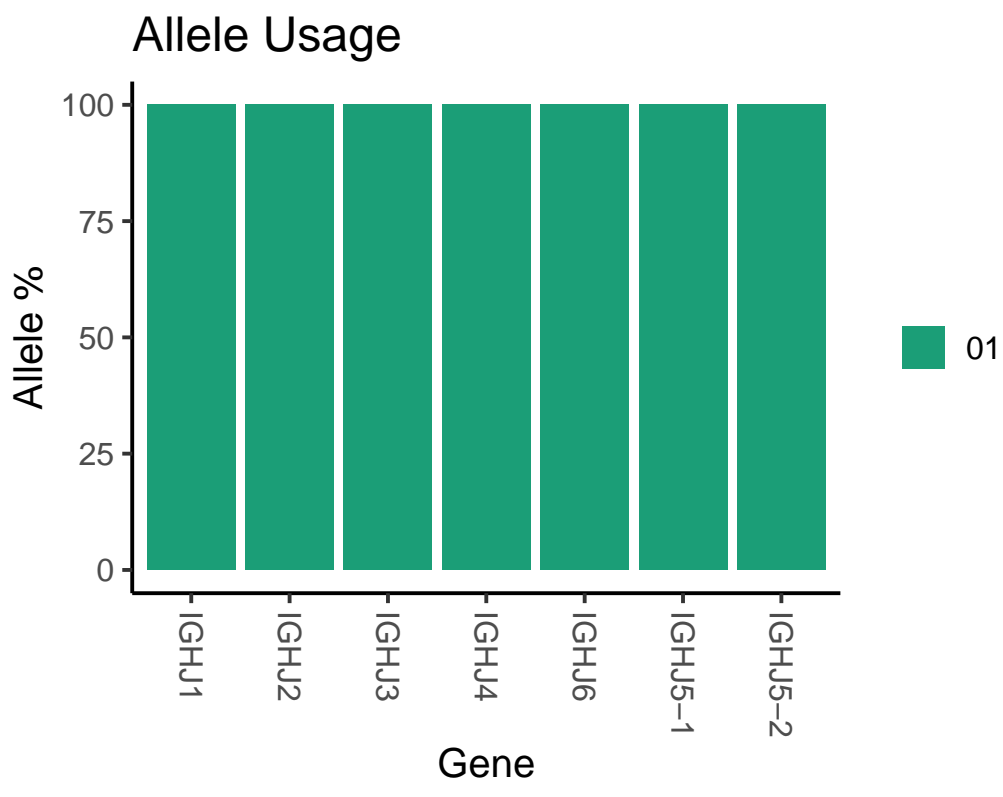
3250 sequences assigned  
555 (17.1%) exact matches, in which:  
451 unique CDR3  
6 unique J



# IGHV5-2\*01\_T298A\_G306A

1661 sequences assigned  
269 (16.2%) exact matches, in which:  
225 unique CDR3  
6 unique J





Warning – no inferred sequences found.