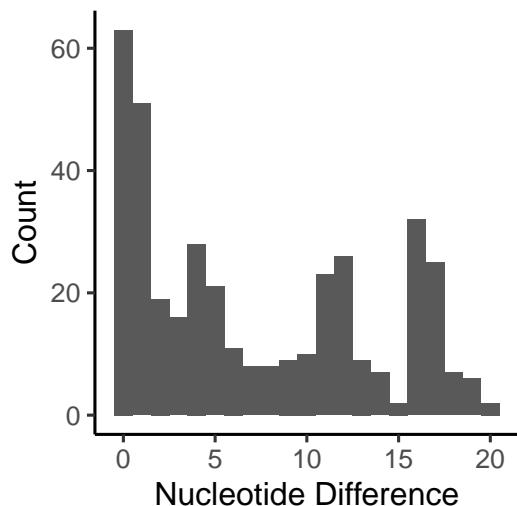


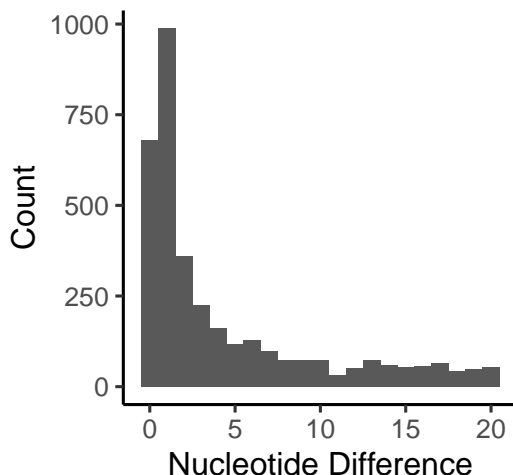
## IGHV1S2\*01\_G166C\_A16

1410 sequences assigned  
63 (4.5%) exact matches, in which:  
56 unique CDR3  
5 unique J



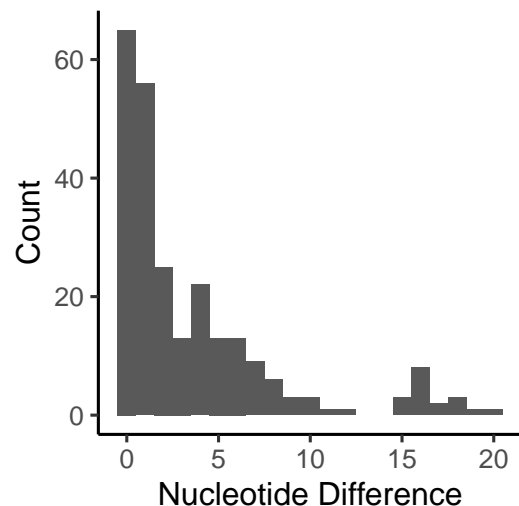
## IGHV3S11\*01\_C78T\_A1

4089 sequences assigned  
680 (16.6%) exact matches, in which:  
587 unique CDR3  
6 unique J



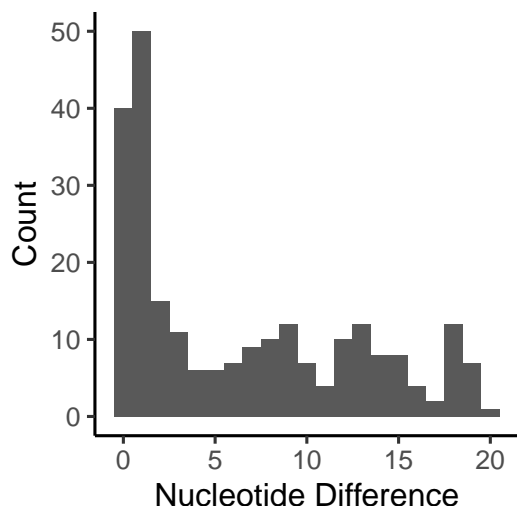
## IGHV3S20\*01\_C34T\_C61

275 sequences assigned  
65 (23.6%) exact matches, in which:  
59 unique CDR3  
6 unique J



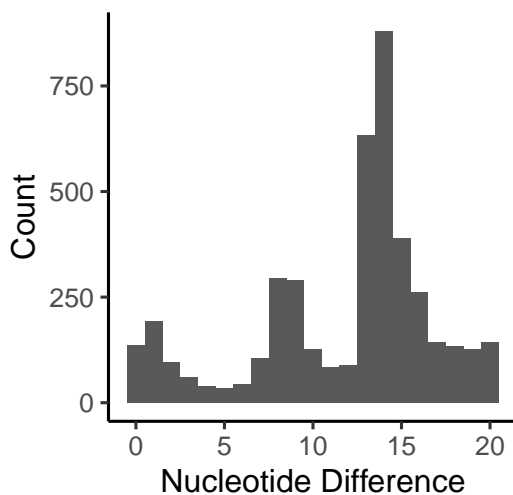
## IGHV2S1\*01\_G36A\_C44T

265 sequences assigned  
40 (15.1%) exact matches, in which:  
36 unique CDR3  
6 unique J



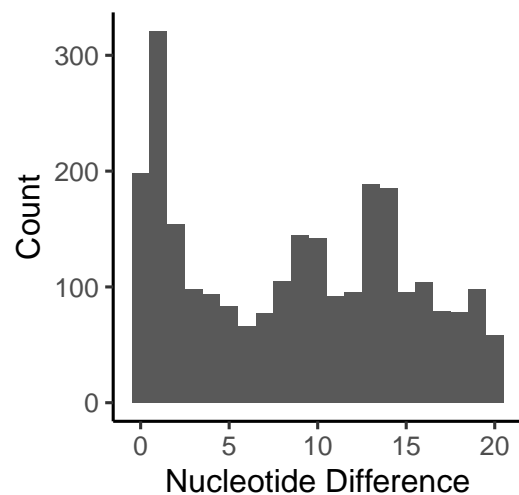
## IGHV3S16\*01\_A145C\_G

4954 sequences assigned  
136 (2.7%) exact matches, in which:  
112 unique CDR3  
6 unique J



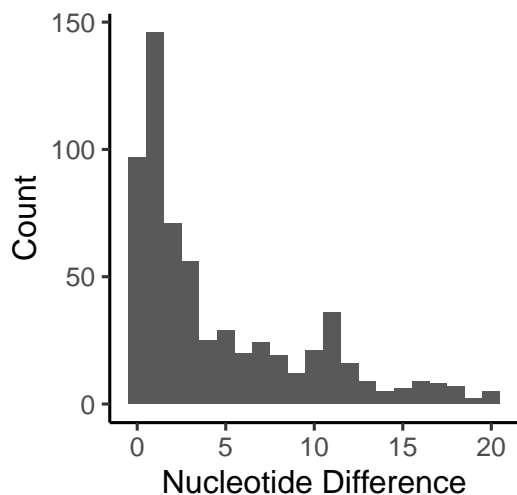
## IGHV3S22\*01\_C61G\_A1

2916 sequences assigned  
198 (6.8%) exact matches, in which:  
168 unique CDR3  
6 unique J



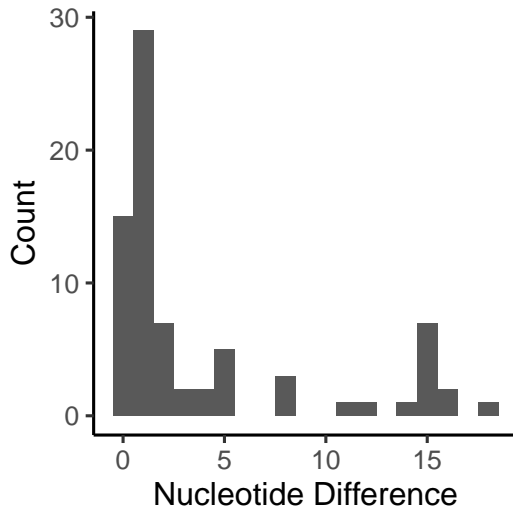
## IGHV2S1\*01\_G6C\_C32T

671 sequences assigned  
97 (14.5%) exact matches, in which:  
84 unique CDR3  
6 unique J



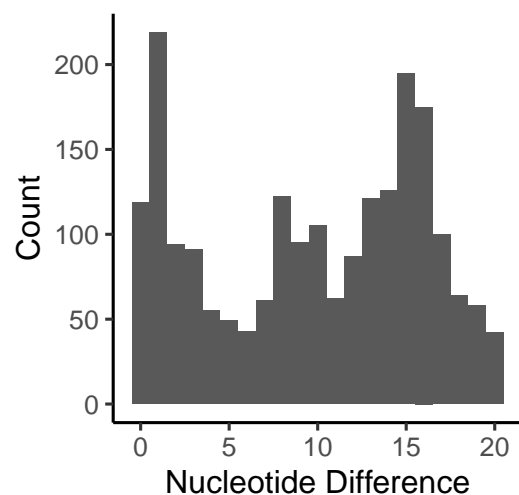
## IGHV3S17\*01\_G63C\_T11

108 sequences assigned  
15 (13.9%) exact matches, in which:  
13 unique CDR3  
5 unique J



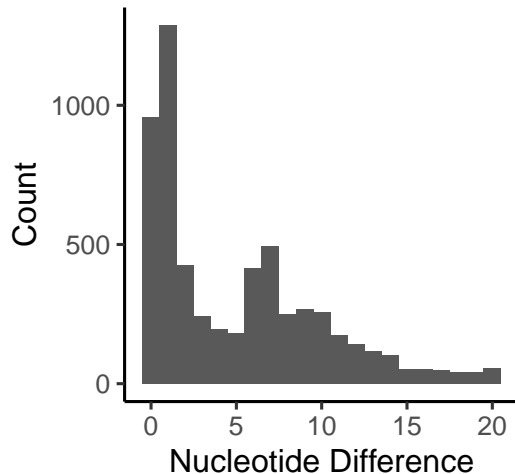
## IGHV3S22\*01\_C61G\_A1

2260 sequences assigned  
119 (5.3%) exact matches, in which:  
98 unique CDR3  
5 unique J



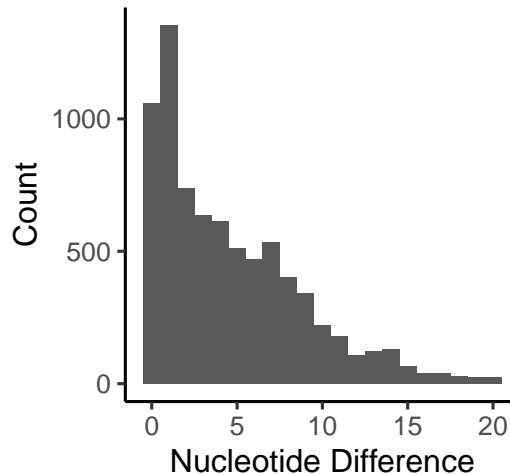
### IGHV3S25\*01\_C114T\_T

6590 sequences assigned  
959 (14.6%) exact matches, in which:  
823 unique CDR3  
6 unique J



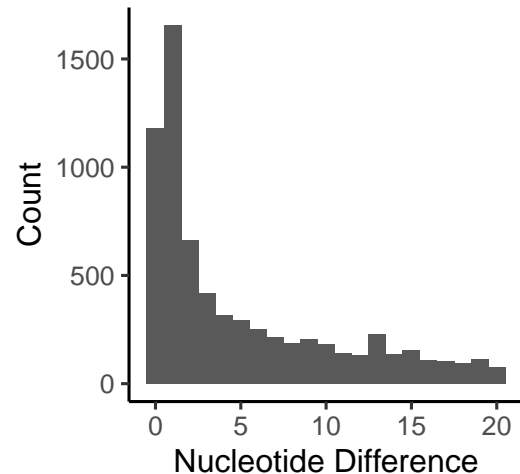
### IGHV3S32\*01\_C114T\_T

7809 sequences assigned  
1061 (13.6%) exact matches, in which:  
898 unique CDR3  
6 unique J



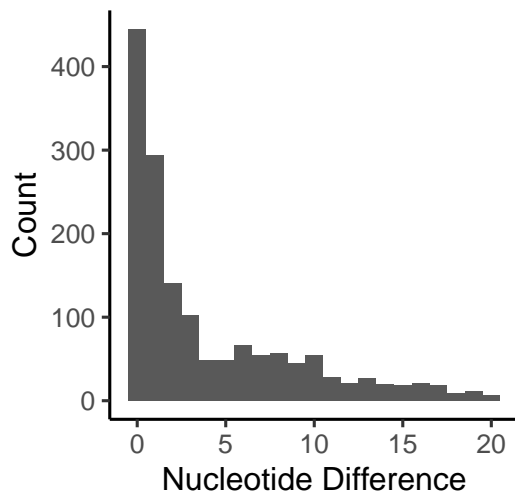
### IGHV3S45\*01\_G26C\_G

7411 sequences assigned  
1181 (15.9%) exact matches, in which:  
1000 unique CDR3  
6 unique J



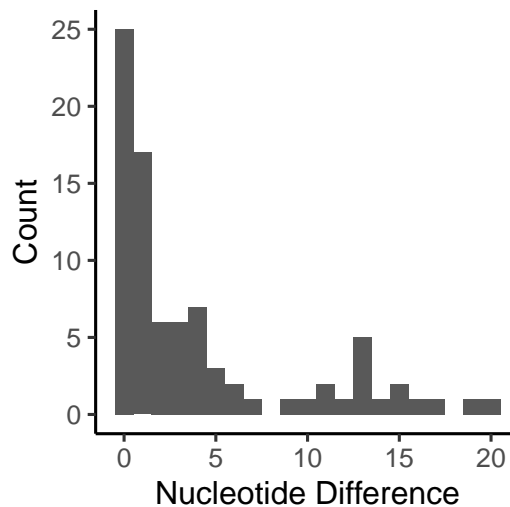
### IGHV3S25\*01\_C114T\_T1

1653 sequences assigned  
445 (26.9%) exact matches, in which:  
426 unique CDR3  
6 unique J



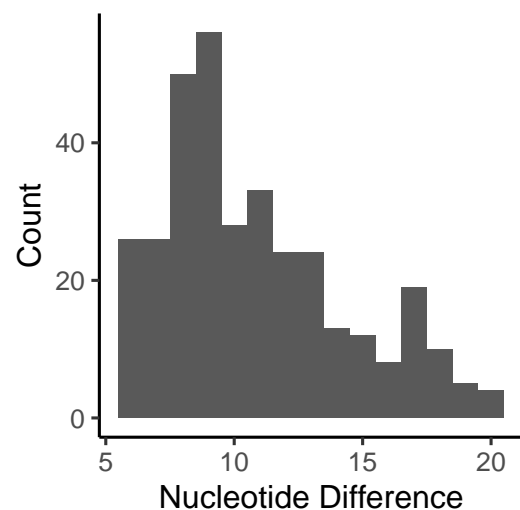
### IGHV3S41\*01\_G3A\_C10T

145 sequences assigned  
25 (17.2%) exact matches, in which:  
25 unique CDR3  
5 unique J



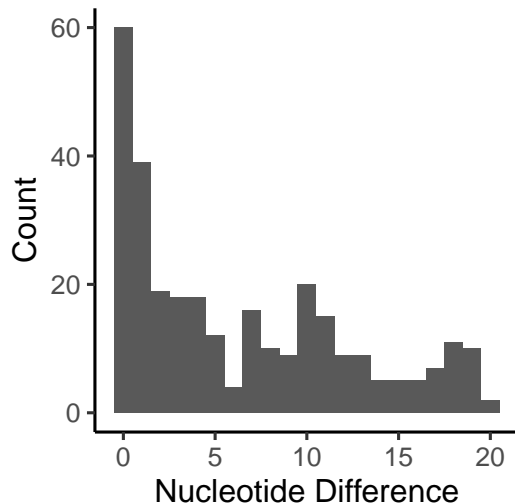
### IGHV3S46\*01

365 sequences assigned  
No exact matches.



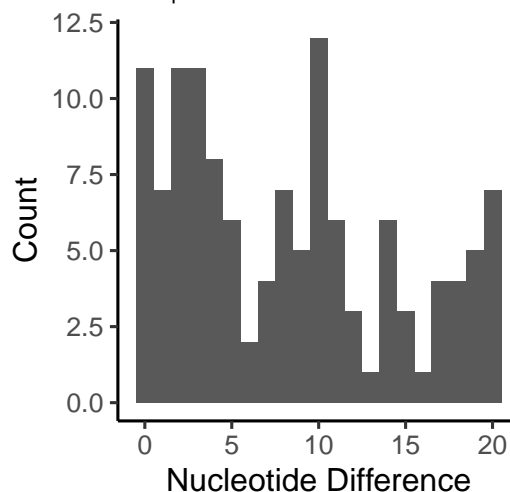
### IGHV3S26\*01\_C213T

1025 sequences assigned  
60 (5.9%) exact matches, in which:  
56 unique CDR3  
6 unique J



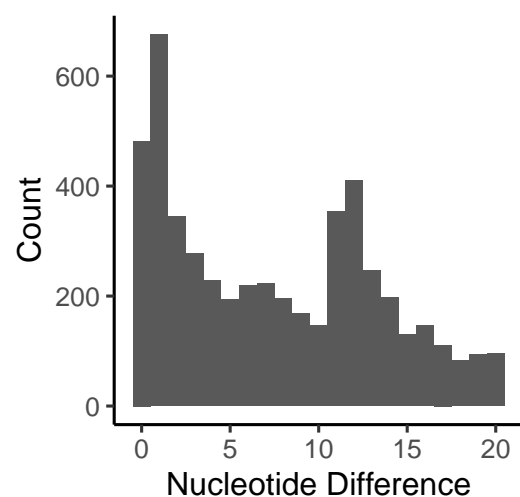
### IGHV3S43\*01\_A7C\_A15

140 sequences assigned  
11 (7.9%) exact matches, in which:  
11 unique CDR3  
5 unique J



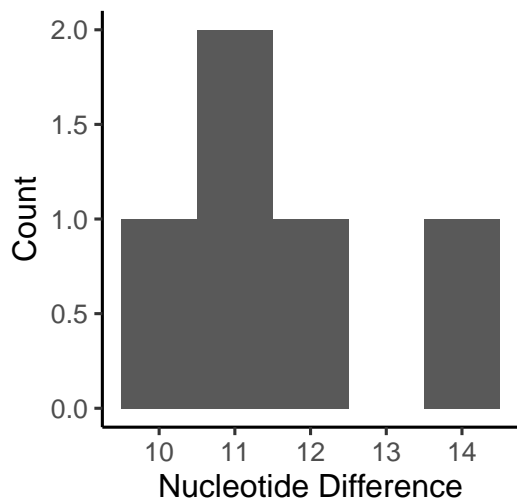
### IGHV3S5\*01\_G166T\_C10

6031 sequences assigned  
482 (8%) exact matches, in which:  
421 unique CDR3  
6 unique J



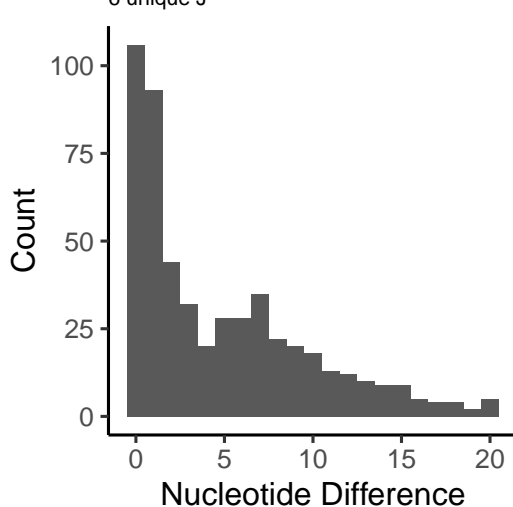
### IGHV3S7\*01

5 sequences assigned  
No exact matches.



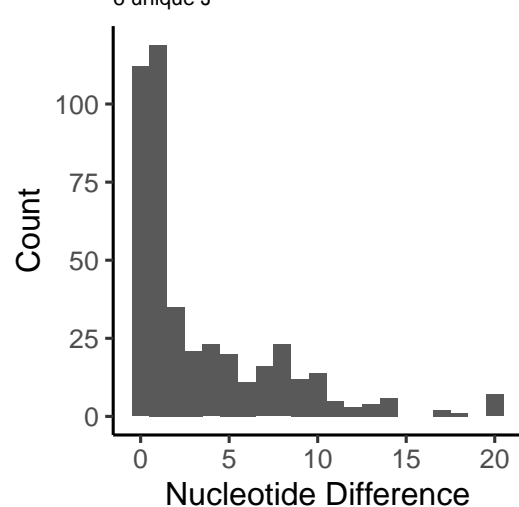
### IGHV4S14\*01\_G70A\_T90

610 sequences assigned  
106 (17.4%) exact matches, in which:  
98 unique CDR3  
6 unique J



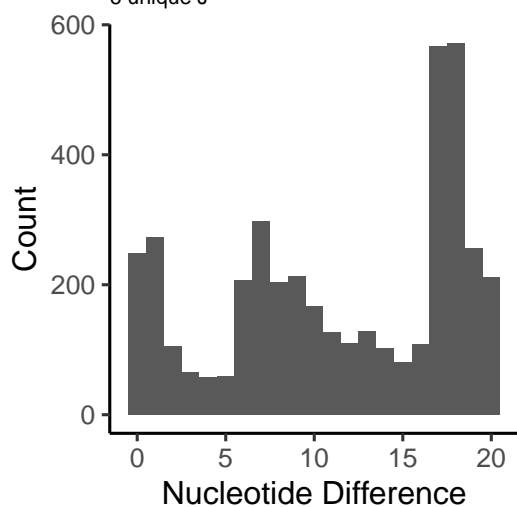
### IGHV7S1\*01\_T84A\_C127

450 sequences assigned  
112 (24.9%) exact matches, in which:  
101 unique CDR3  
6 unique J



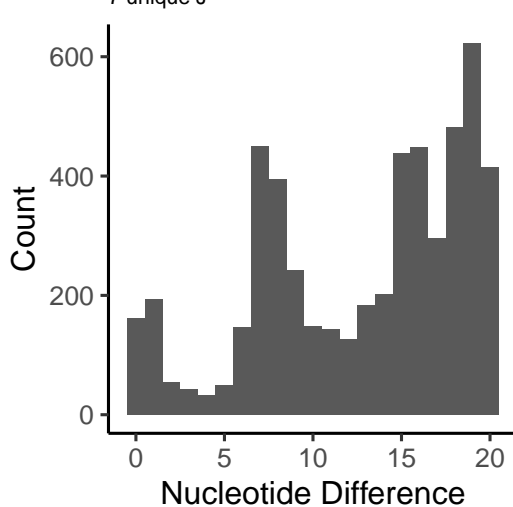
### IGHV4S11\*01\_G4C\_T90

5307 sequences assigned  
249 (4.7%) exact matches, in which:  
229 unique CDR3  
6 unique J



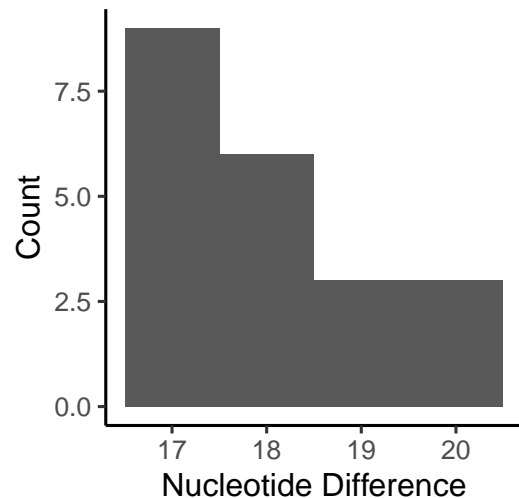
### IGHV4S15\*01\_G21A\_T85

9791 sequences assigned  
162 (1.7%) exact matches, in which:  
145 unique CDR3  
7 unique J



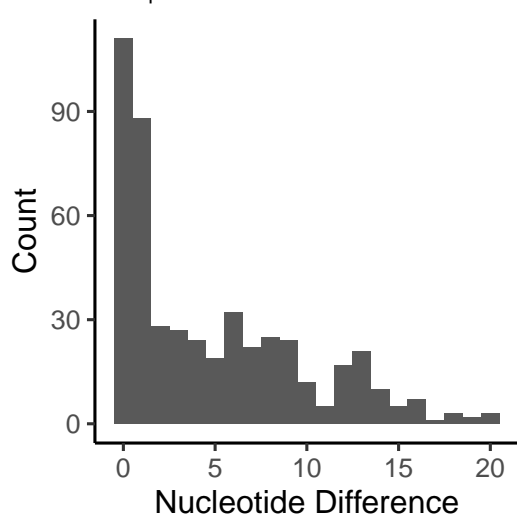
### IGHV7S3\*01

23 sequences assigned  
No exact matches.



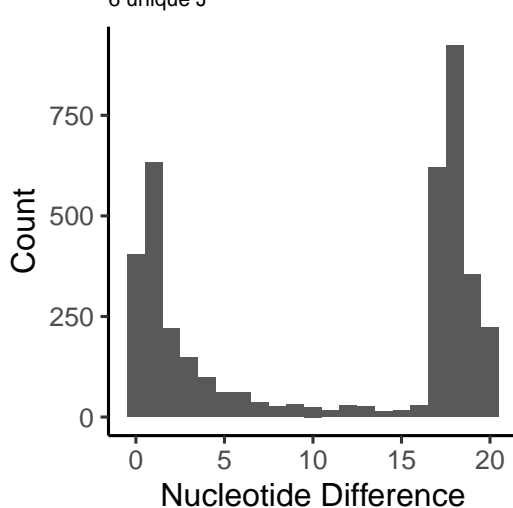
### IGHV4S14\*01\_G70A\_T90

744 sequences assigned  
111 (14.9%) exact matches, in which:  
104 unique CDR3  
6 unique J



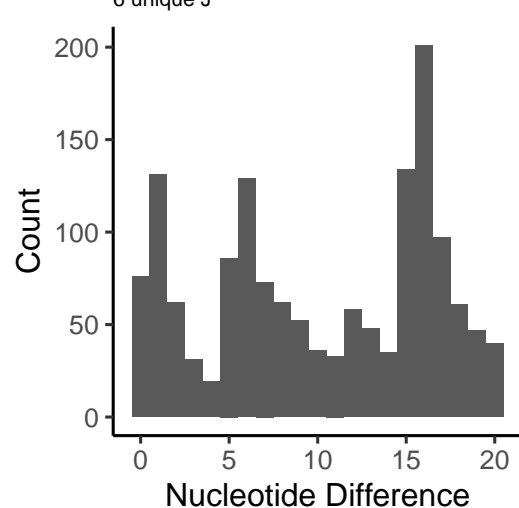
### IGHV5S1\*01\_G51A\_A105

5062 sequences assigned  
405 (8%) exact matches, in which:  
322 unique CDR3  
6 unique J



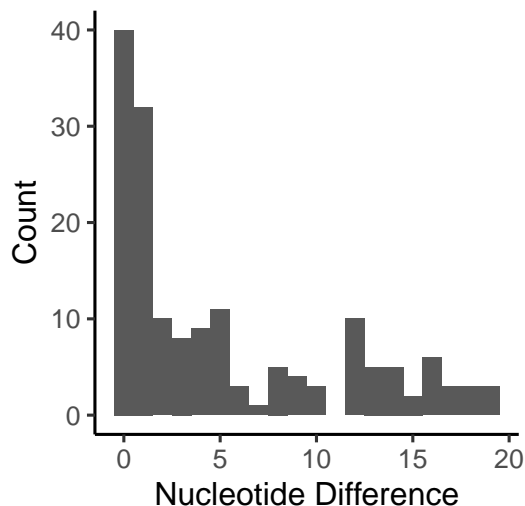
### IGHV2-1\*01\_G178A\_G185

1851 sequences assigned  
76 (4.1%) exact matches, in which:  
72 unique CDR3  
6 unique J



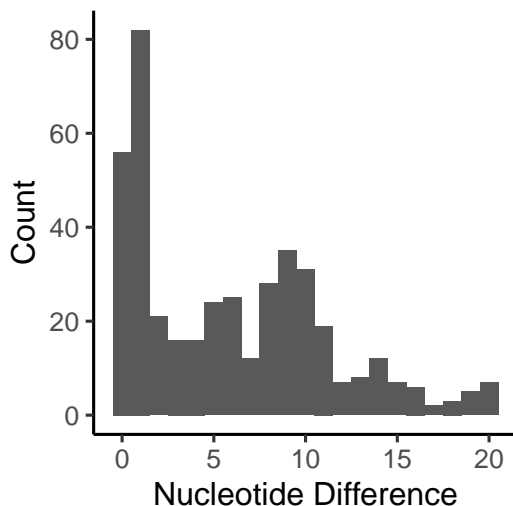
### IGHV3-5\*01\_C62T\_A109C

683 sequences assigned  
40 (5.9%) exact matches, in which:  
39 unique CDR3  
5 unique J



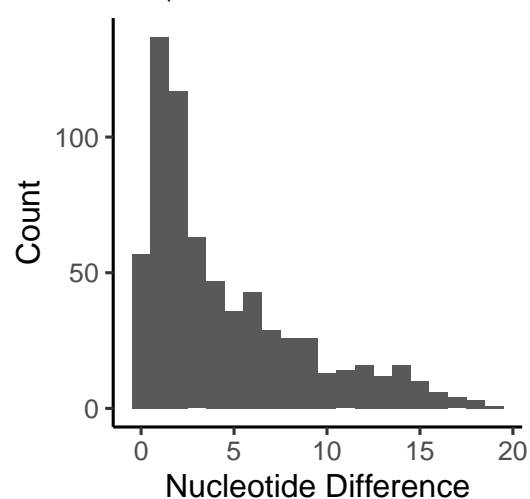
### IGHV3-14\*01\_G110A\_C110G

565 sequences assigned  
56 (9.9%) exact matches, in which:  
50 unique CDR3  
6 unique J



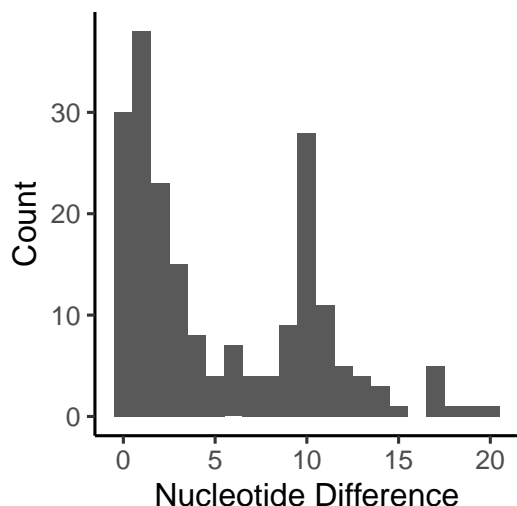
### IGHV6-1\*01\_G283T

686 sequences assigned  
57 (8.3%) exact matches, in which:  
55 unique CDR3  
6 unique J



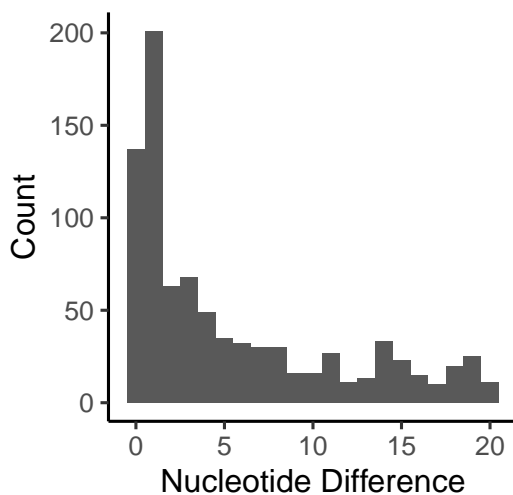
### IGHV3-7\*01\_A196G

227 sequences assigned  
30 (13.2%) exact matches, in which:  
24 unique CDR3  
5 unique J



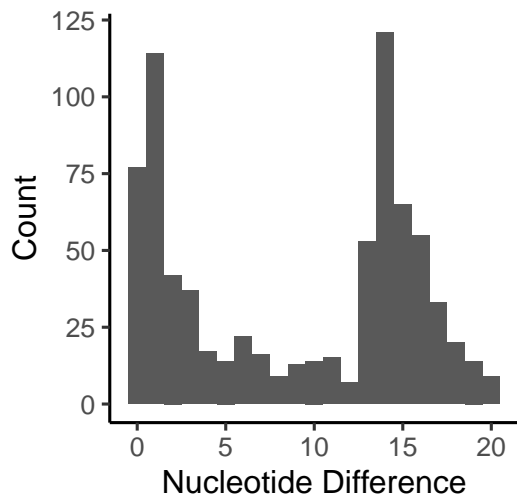
### IGHV3-22\*01\_C10T\_G51C\_A127G\_G141A\_C154G\_A220G

911 sequences assigned  
137 (15%) exact matches, in which:  
119 unique CDR3  
6 unique J



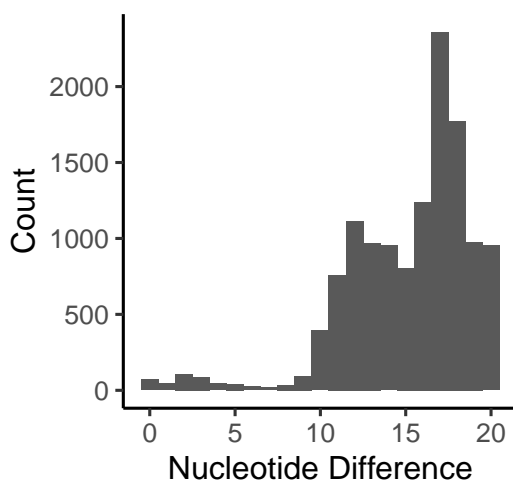
### IGHV3-12\*01\_A298T

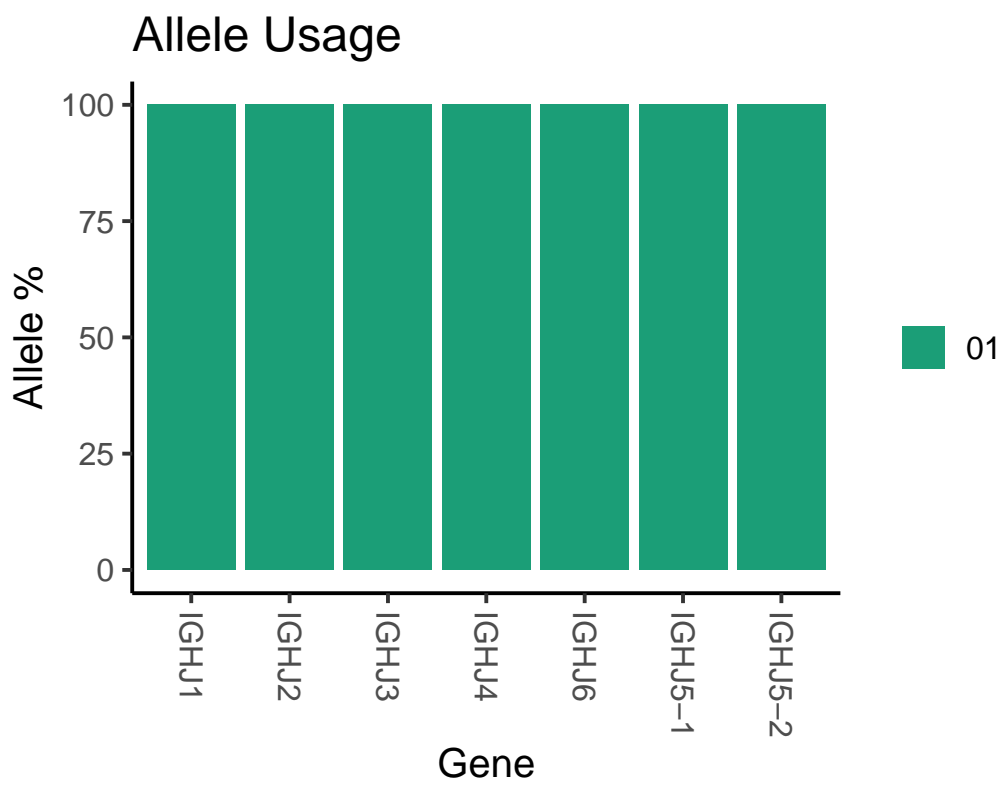
824 sequences assigned  
77 (9.3%) exact matches, in which:  
67 unique CDR3  
6 unique J



### IGHV4-2\*01\_C4G\_C173A\_C303G

18915 sequences assigned  
70 (0.4%) exact matches, in which:  
67 unique CDR3  
6 unique J





Warning – no inferred sequences found.