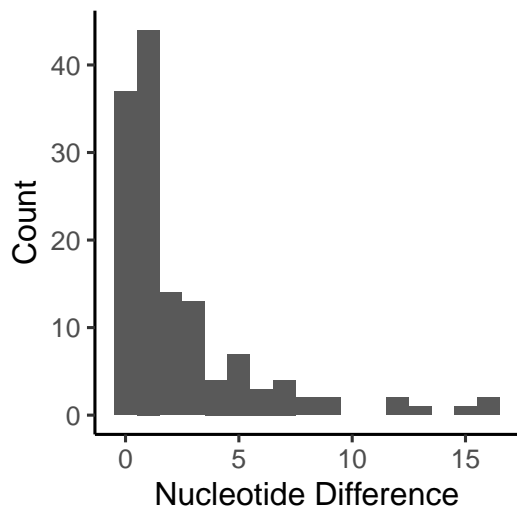


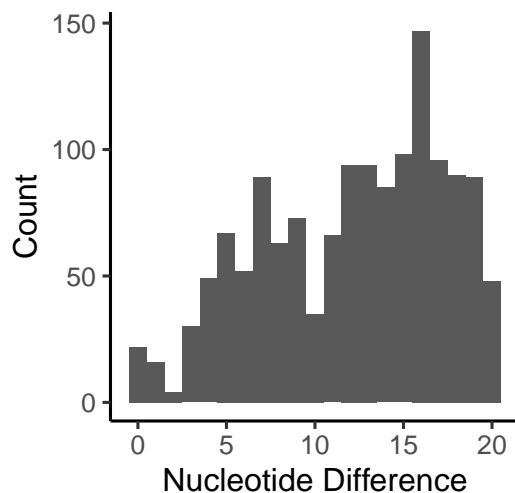
### IGHV1S10\*01\_C93T\_G16

136 sequences assigned  
37 (27.2%) exact matches, in which:  
33 unique CDR3  
6 unique J



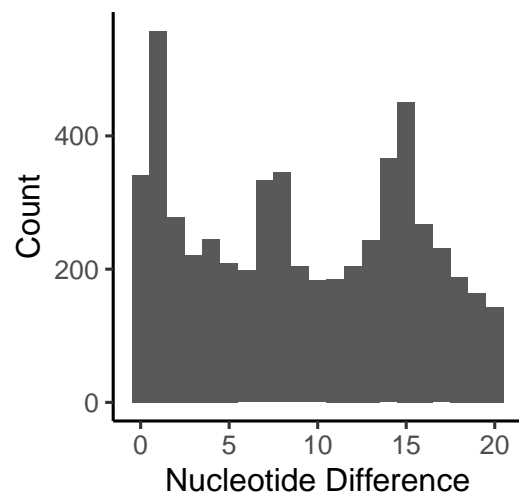
### IGHV2S1\*01\_C91A\_C95I

1715 sequences assigned  
22 (1.3%) exact matches, in which:  
20 unique CDR3  
6 unique J



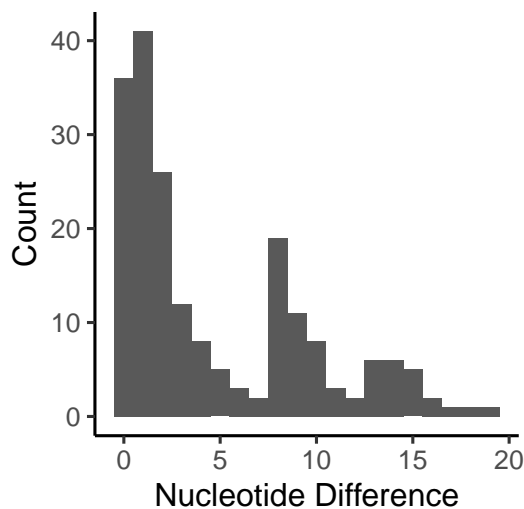
### IGHV3S16\*01\_G24A\_A1

6891 sequences assigned  
341 (4.9%) exact matches, in which:  
298 unique CDR3  
6 unique J



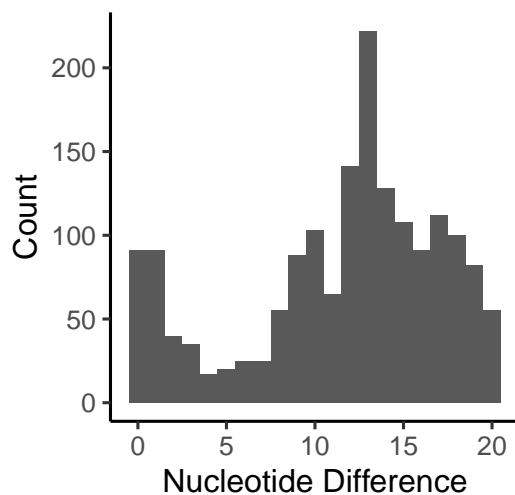
### IGHV1S10\*01\_G167T

199 sequences assigned  
36 (18.1%) exact matches, in which:  
33 unique CDR3  
5 unique J



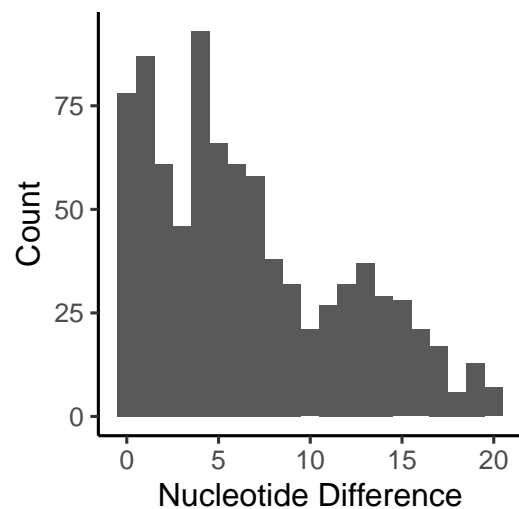
### IGHV2S2\*01\_C6G\_G115

2163 sequences assigned  
91 (4.2%) exact matches, in which:  
77 unique CDR3  
6 unique J



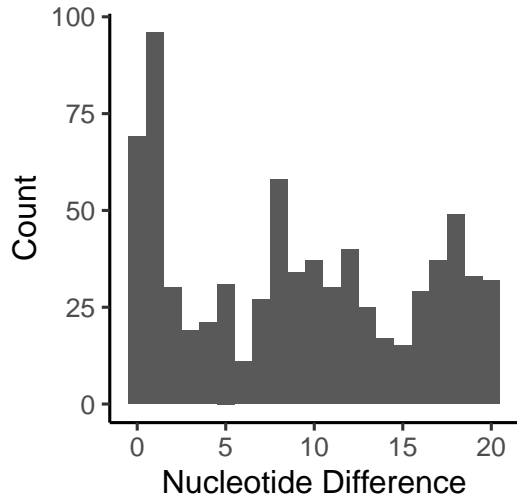
### IGHV3S18\*01\_G3A\_C27A

985 sequences assigned  
78 (7.9%) exact matches, in which:  
68 unique CDR3  
6 unique J



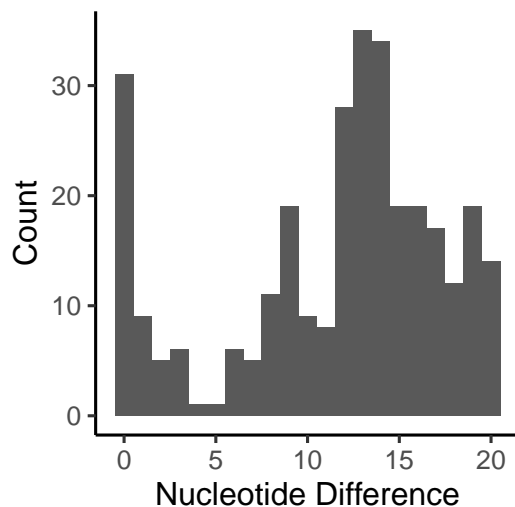
### IGHV1S9\*01\_G18A\_G49

929 sequences assigned  
69 (7.4%) exact matches, in which:  
64 unique CDR3  
6 unique J



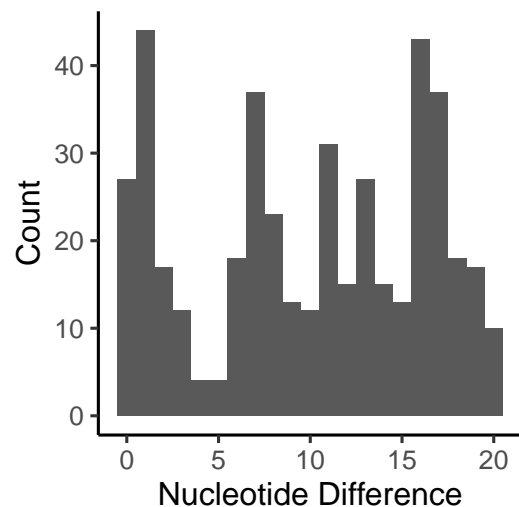
### IGHV2S2\*01\_C6G\_G115C

466 sequences assigned  
31 (6.7%) exact matches, in which:  
30 unique CDR3  
6 unique J



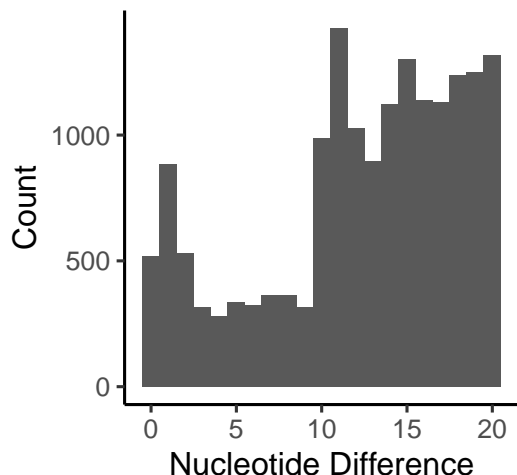
### IGHV3S20\*01\_C34T\_G26

481 sequences assigned  
27 (5.6%) exact matches, in which:  
24 unique CDR3  
6 unique J



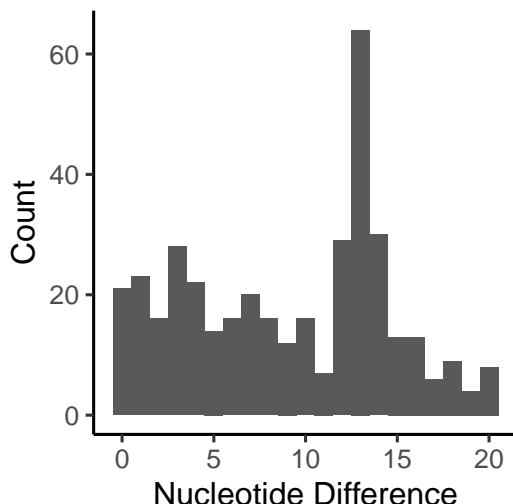
### IGHV3S25\*01\_C114T\_T

29516 sequences assigned  
518 (1.8%) exact matches, in which:  
450 unique CDR3  
6 unique J



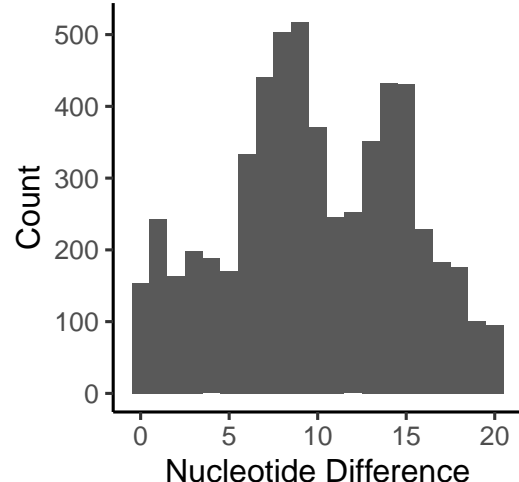
### IGHV3S32\*01\_T130C\_T16

405 sequences assigned  
21 (5.2%) exact matches, in which:  
17 unique CDR3  
6 unique J



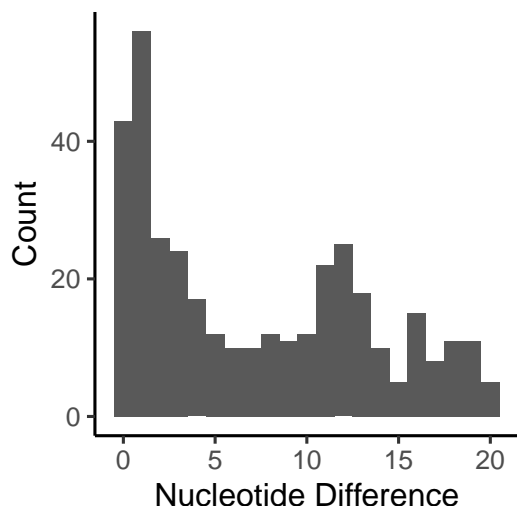
### IGHV3S45\*01\_G26C\_G1

6324 sequences assigned  
154 (2.4%) exact matches, in which:  
134 unique CDR3  
6 unique J



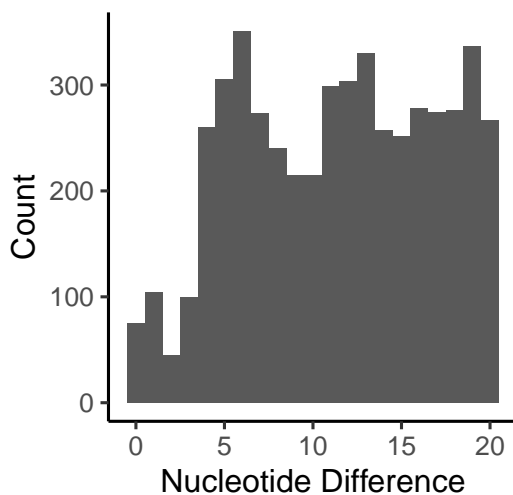
### IGHV3S26\*01\_C3A\_C54T

577 sequences assigned  
43 (7.5%) exact matches, in which:  
41 unique CDR3  
5 unique J



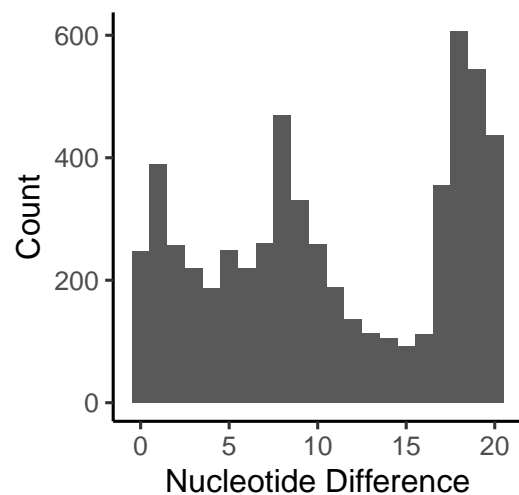
### IGHV3S40\*01\_A27C\_C3

7258 sequences assigned  
75 (1%) exact matches, in which:  
67 unique CDR3  
6 unique J



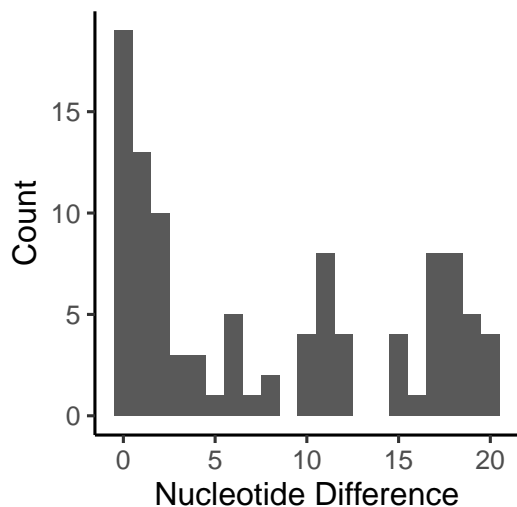
### IGHV3S45\*01\_G26C\_G1

12553 sequences assigned  
248 (2%) exact matches, in which:  
207 unique CDR3  
6 unique J



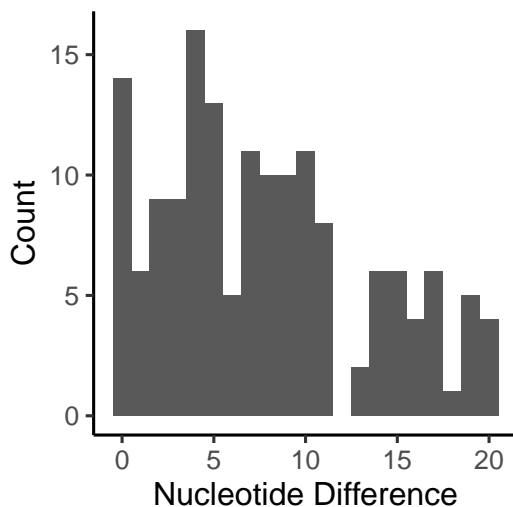
### IGHV3S26\*01\_T197C\_C2

677 sequences assigned  
19 (2.8%) exact matches, in which:  
18 unique CDR3  
5 unique J



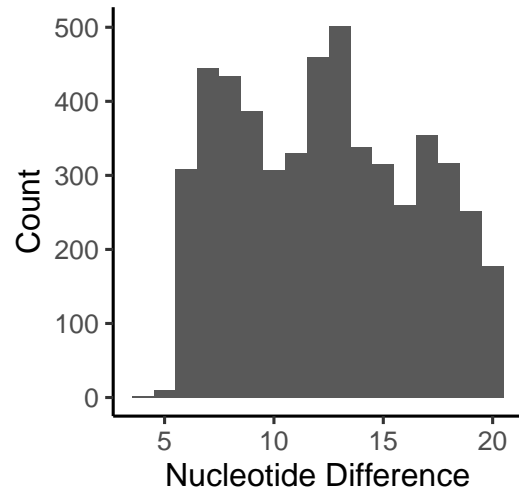
### IGHV3S43\*01\_A7C\_A15G

2295 sequences assigned  
14 (0.6%) exact matches, in which:  
13 unique CDR3  
5 unique J



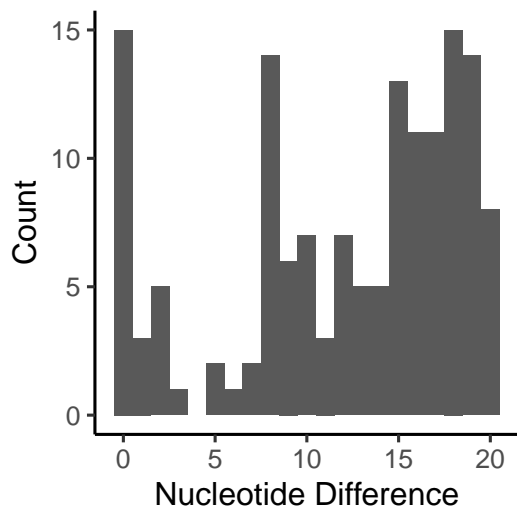
### IGHV3S46\*01

6365 sequences assigned  
No exact matches.



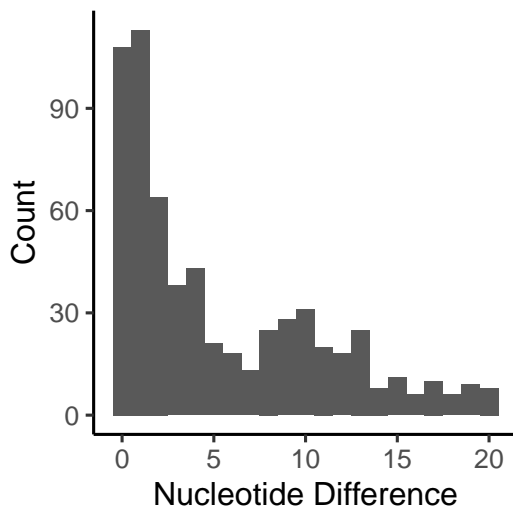
### IGHV3S5\*01\_G160A\_G17

1350 sequences assigned  
15 (1.1%) exact matches, in which:  
15 unique CDR3  
6 unique J



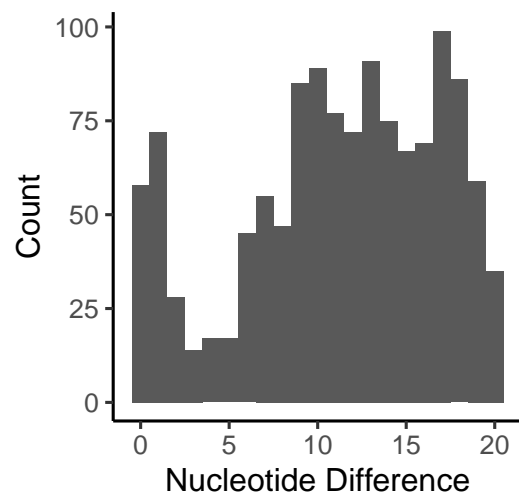
### IGHV4S12\*01\_G34C\_C90

657 sequences assigned  
108 (16.4%) exact matches, in which:  
100 unique CDR3  
6 unique J



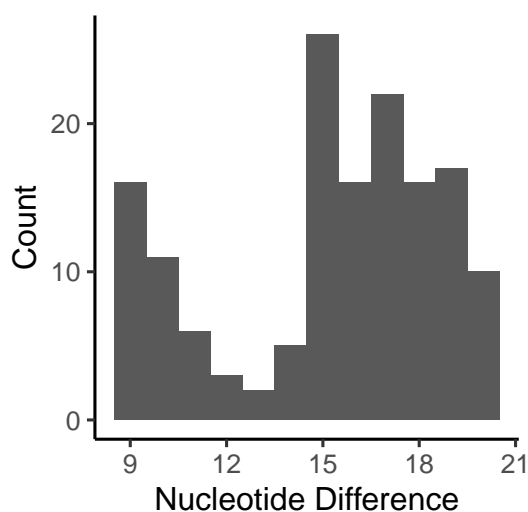
### IGHV4S14\*01\_T90C\_A91

1510 sequences assigned  
58 (3.8%) exact matches, in which:  
53 unique CDR3  
6 unique J



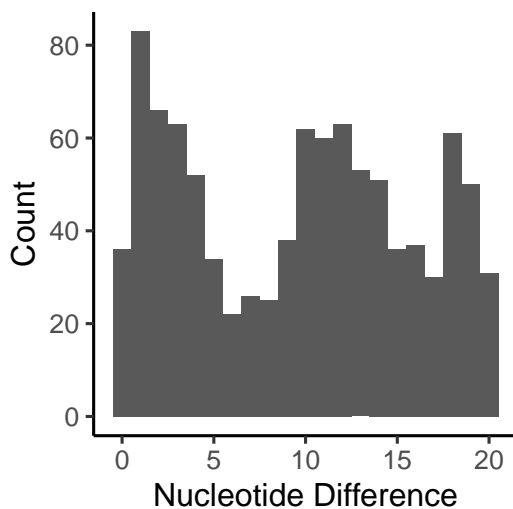
### IGHV3S7\*01

205 sequences assigned  
No exact matches.



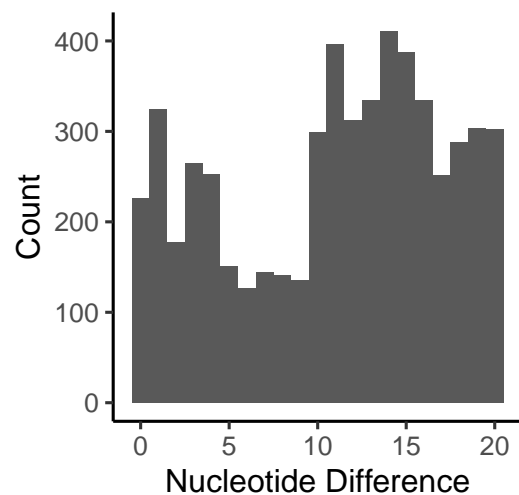
### IGHV4S14\*01\_G70A\_T90

1312 sequences assigned  
36 (2.7%) exact matches, in which:  
36 unique CDR3  
6 unique J



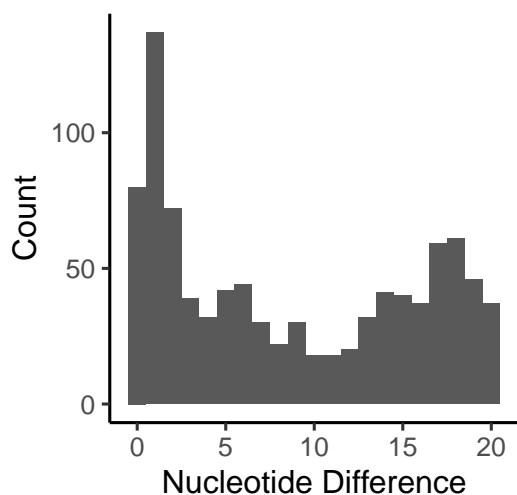
### IGHV4S17\*01\_A166T\_A1

7661 sequences assigned  
226 (3%) exact matches, in which:  
209 unique CDR3  
6 unique J



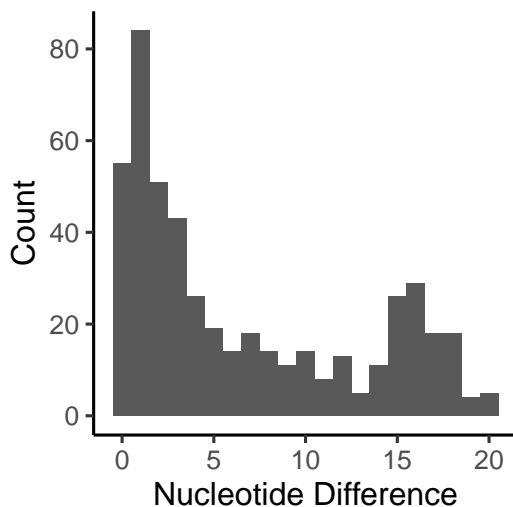
### IGHV4S12\*01\_A199T\_A2

1552 sequences assigned  
80 (5.2%) exact matches, in which:  
76 unique CDR3  
6 unique J



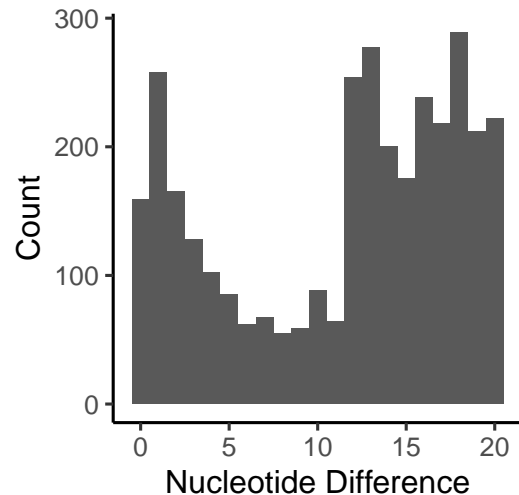
### IGHV4S14\*01\_T90C\_A16

723 sequences assigned  
55 (7.6%) exact matches, in which:  
51 unique CDR3  
6 unique J



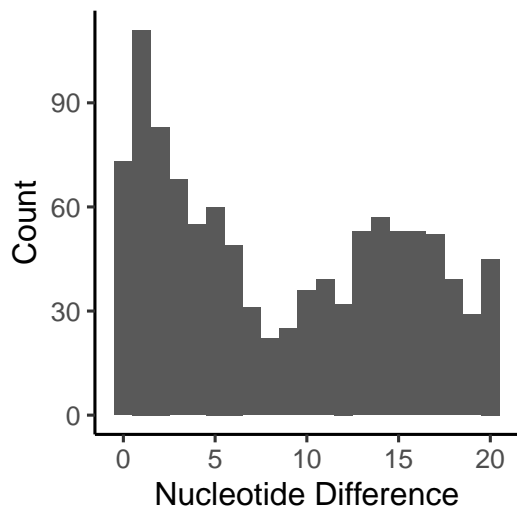
### IGHV4S18\*01\_C34G\_T1

6014 sequences assigned  
159 (2.6%) exact matches, in which:  
147 unique CDR3  
6 unique J



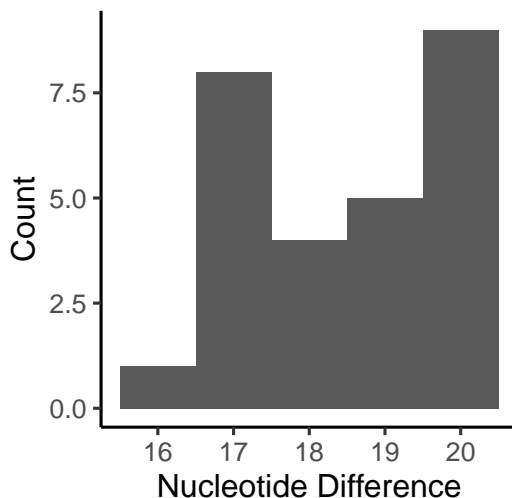
### IGHV4S19\*01\_A166T\_T19

1677 sequences assigned  
73 (4.4%) exact matches, in which:  
71 unique CDR3  
6 unique J



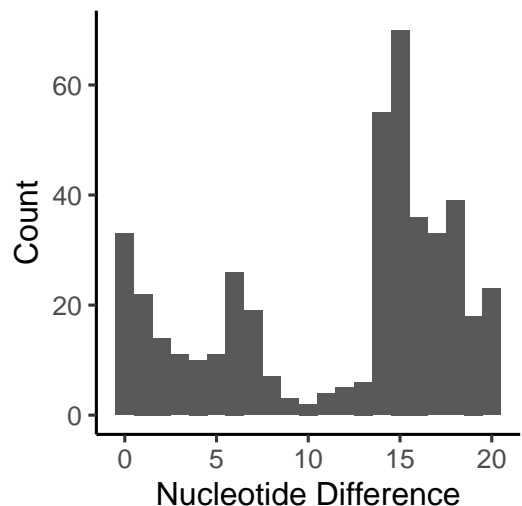
### IGHV7S3\*01

491 sequences assigned  
No exact matches.



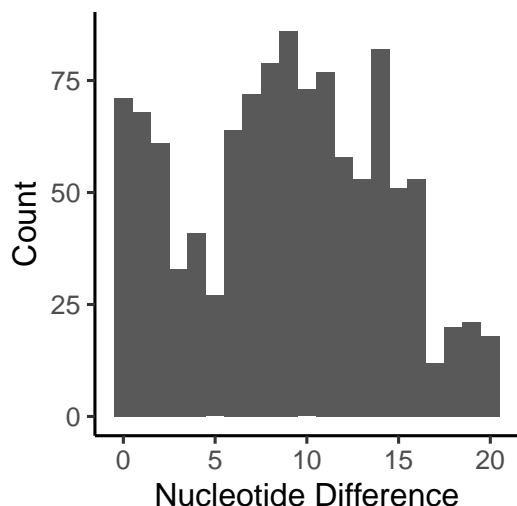
### IGHV4-2\*01\_C4G\_C90T\_

1342 sequences assigned  
33 (2.5%) exact matches, in which:  
32 unique CDR3  
5 unique J



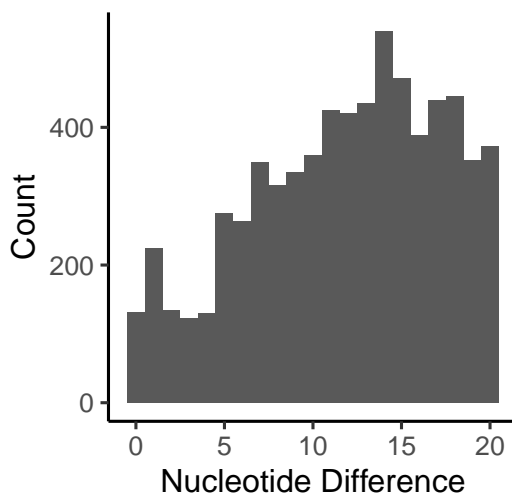
### IGHV4S6\*01\_A70G

1444 sequences assigned  
71 (4.9%) exact matches, in which:  
68 unique CDR3  
6 unique J



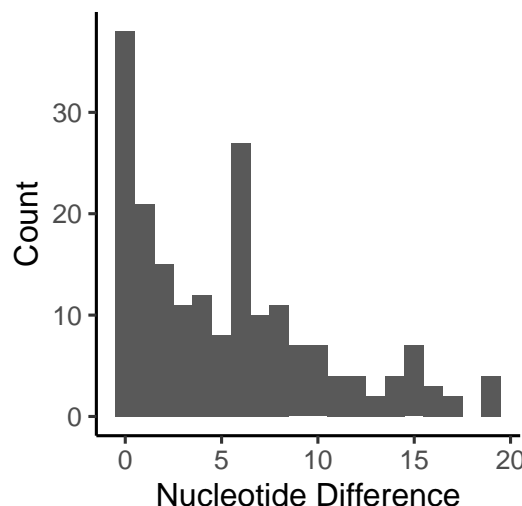
### IGHV3-6\*01\_C61G\_T122

11280 sequences assigned  
131 (1.2%) exact matches, in which:  
115 unique CDR3  
6 unique J



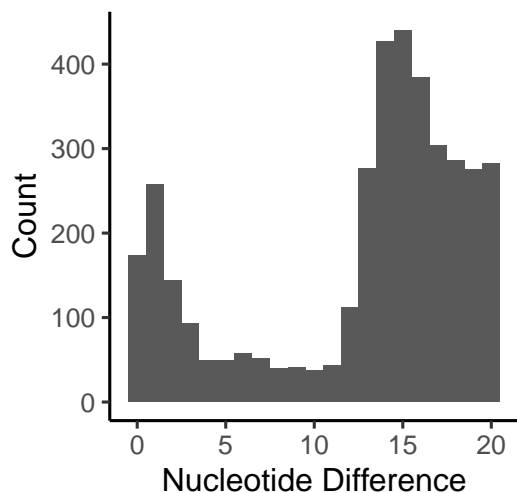
### IGHV4-2\*01\_C4G\_C90T\_

219 sequences assigned  
38 (17.4%) exact matches, in which:  
37 unique CDR3  
5 unique J



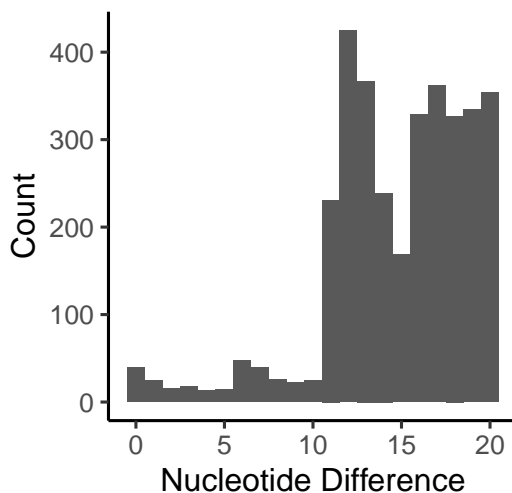
### IGHV4S7\*01\_G110C\_C1

6498 sequences assigned  
173 (2.7%) exact matches, in which:  
163 unique CDR3  
6 unique J



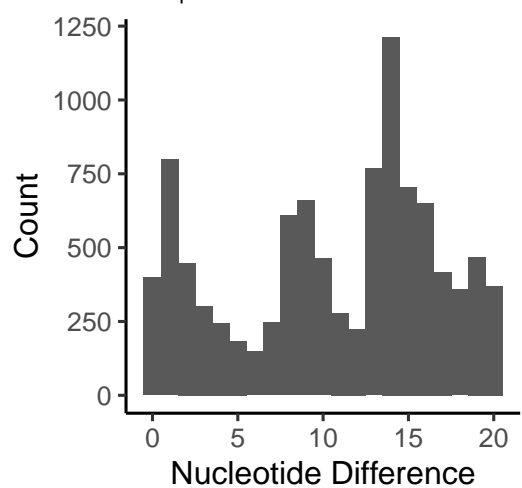
### IGHV4-2\*01\_C4G\_C173,

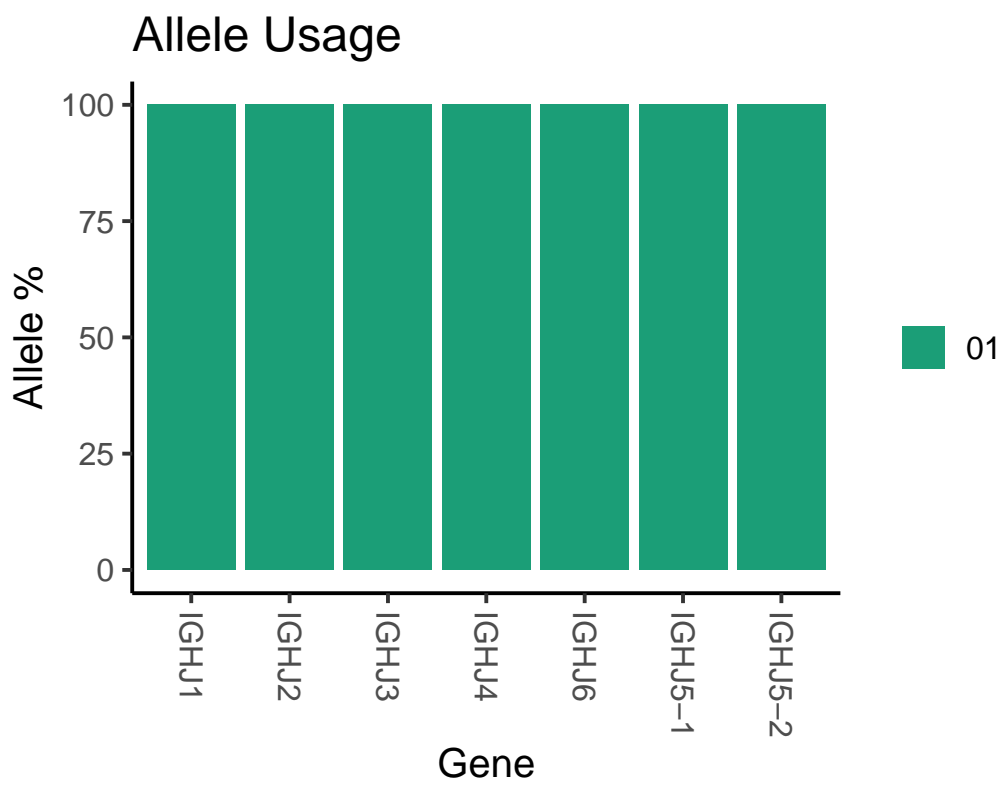
9524 sequences assigned  
40 (0.4%) exact matches, in which:  
38 unique CDR3  
6 unique J



### IGHV5-2\*01\_G51A\_A59

11536 sequences assigned  
399 (3.5%) exact matches, in which:  
313 unique CDR3  
6 unique J





Warning – no inferred sequences found.