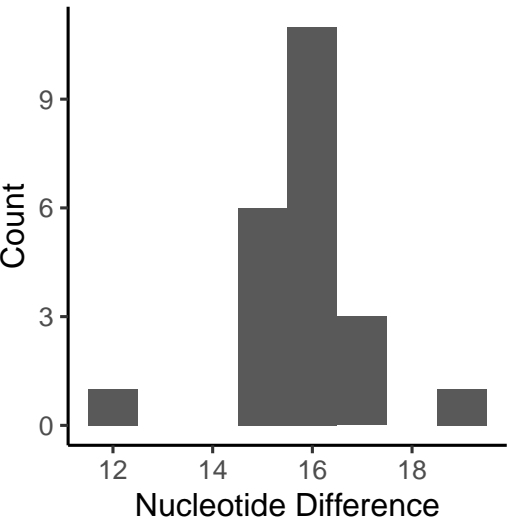


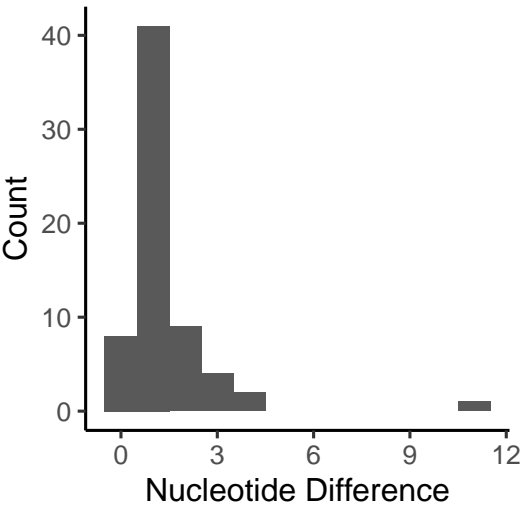
IGHV1-2\*02

22 sequences assigned  
No exact matches.



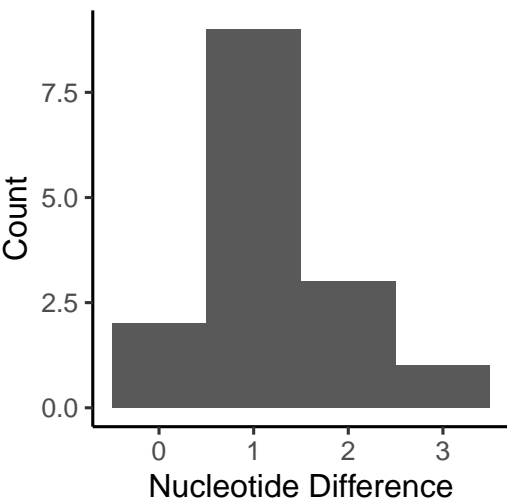
IGHV1-18\*04

65 sequences assigned  
8 (12.3%) exact matches, in which:  
4 unique CDR3  
1 unique J



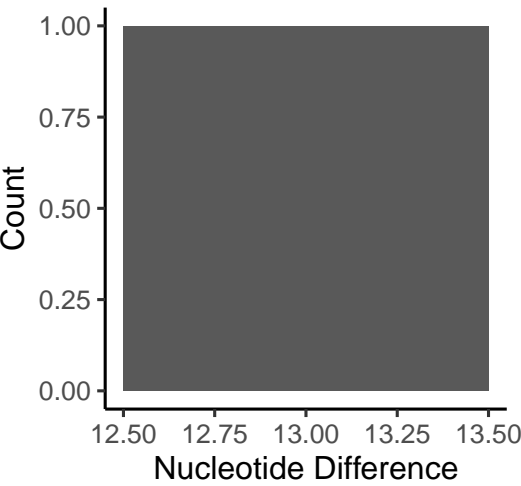
IGHV1-46\*03

18 sequences assigned  
2 (11.1%) exact matches, in which:  
1 unique CDR3  
1 unique J



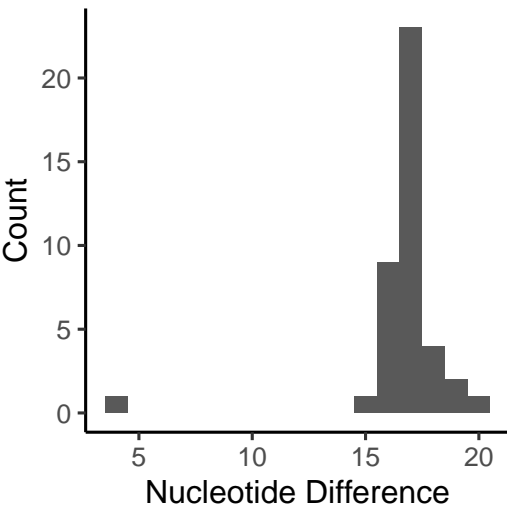
IGHV1-8\*01

1 sequences assigned  
No exact matches.



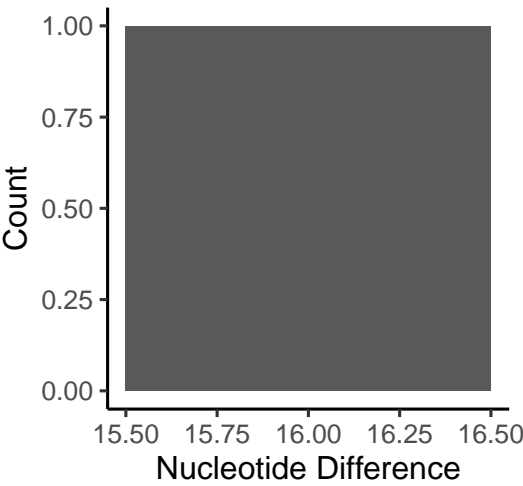
IGHV1-46\*01

42 sequences assigned  
No exact matches.



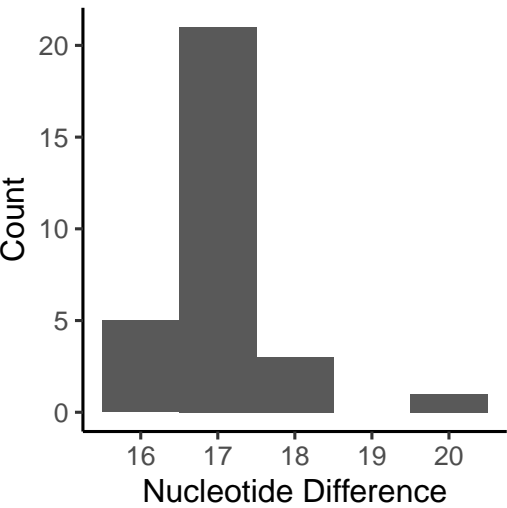
IGHV1-69\*04\_09

1 sequences assigned  
No exact matches.



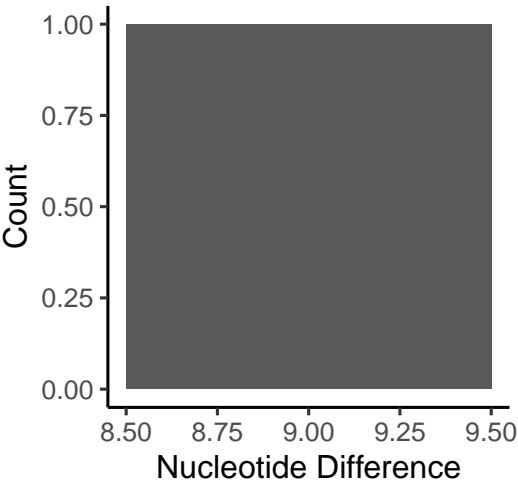
IGHV1-18\*01

32 sequences assigned  
No exact matches.



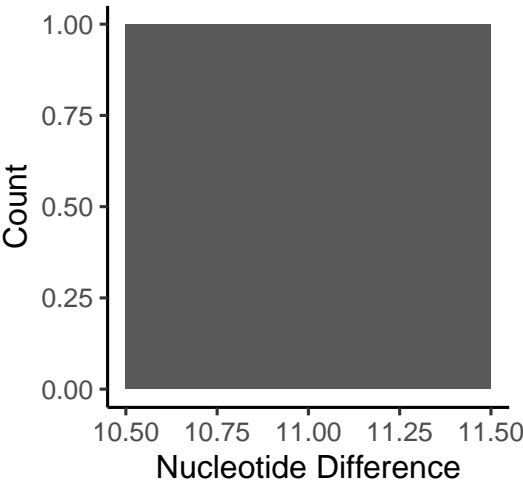
IGHV1-46\*02

1 sequences assigned  
No exact matches.



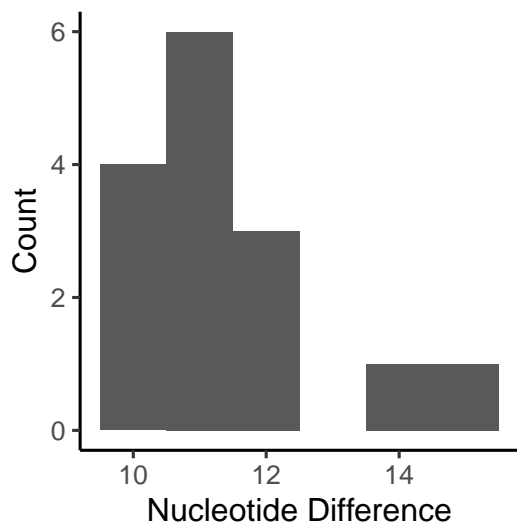
IGHV3-7\*01

195 sequences assigned  
No exact matches.



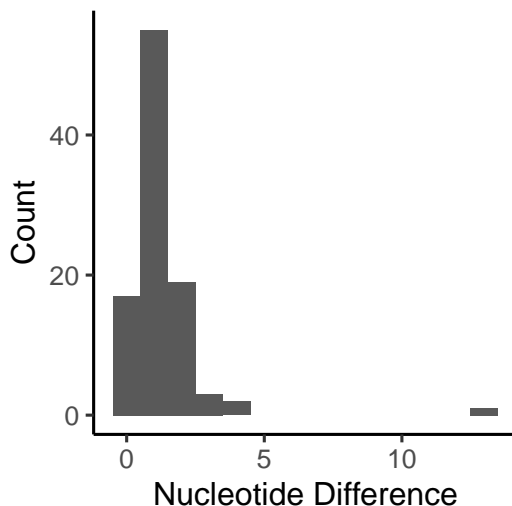
### IGHV3-7\*03

21 sequences assigned  
No exact matches.



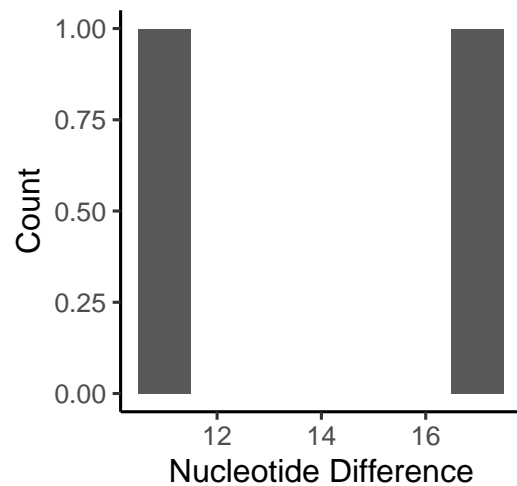
### IGHV3-11\*04

97 sequences assigned  
17 (17.5%) exact matches, in which:  
11 unique CDR3  
2 unique J



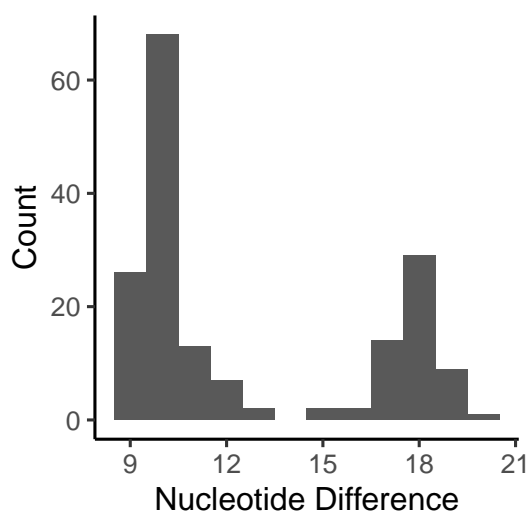
### IGHV3-13\*05

2 sequences assigned  
No exact matches.



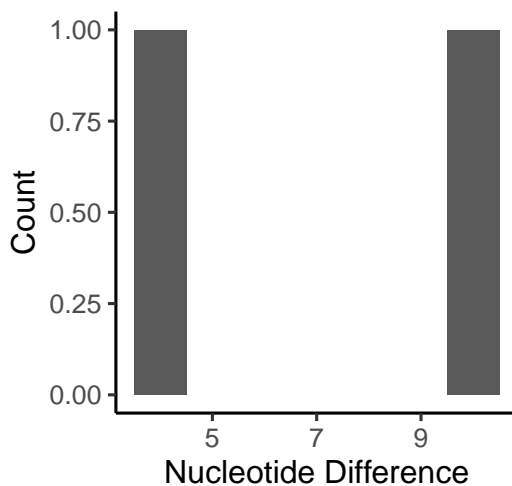
### IGHV3-9\*01

180 sequences assigned  
No exact matches.



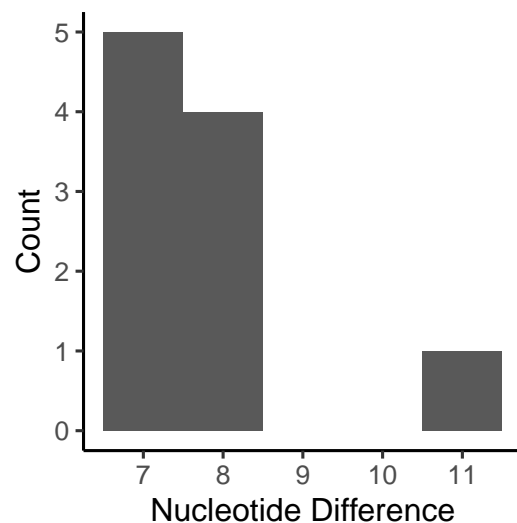
### IGHV3-11\*06

2 sequences assigned  
No exact matches.



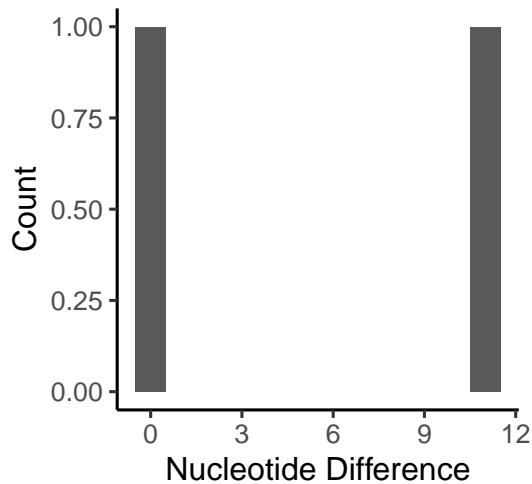
### IGHV3-15\*05

15 sequences assigned  
No exact matches.



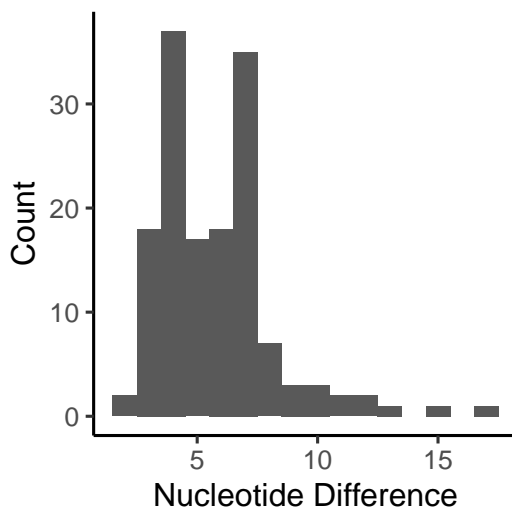
### IGHV3-11\*01

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



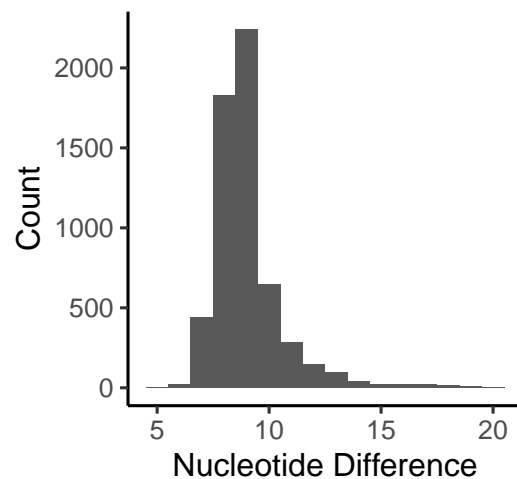
### IGHV3-13\*01

147 sequences assigned  
No exact matches.



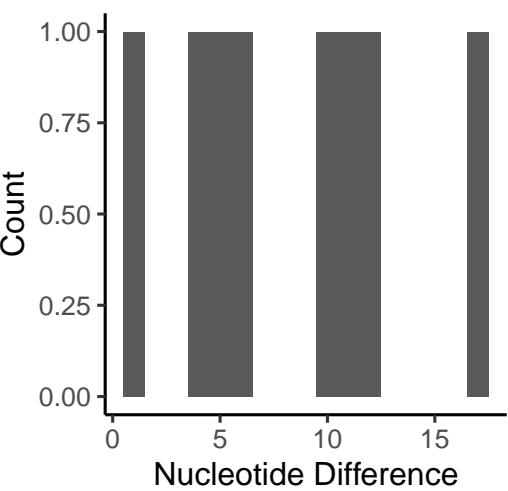
### IGHV3-15\*01\_02

5864 sequences assigned  
No exact matches.



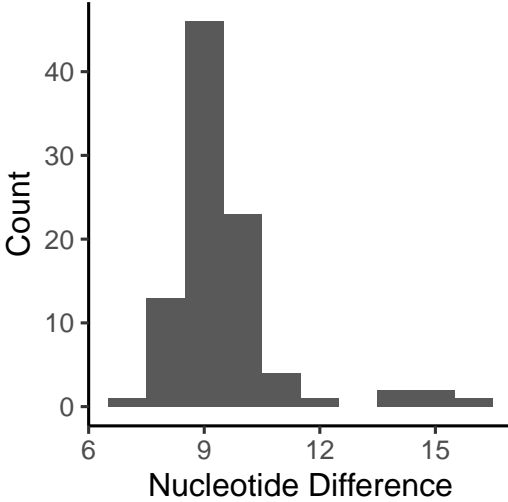
IGHV3-21\*01\_02

8 sequences assigned  
No exact matches.



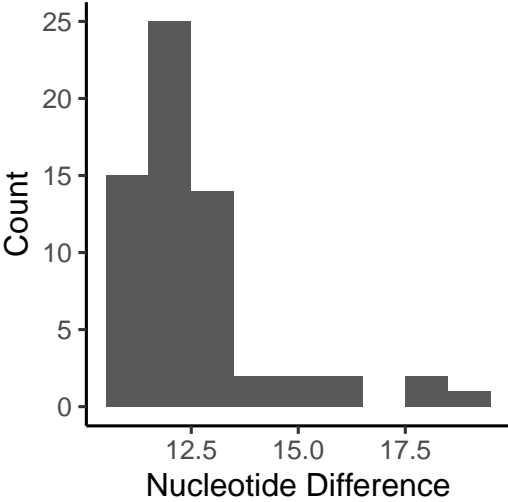
IGHV3-30\*02

149 sequences assigned  
No exact matches.



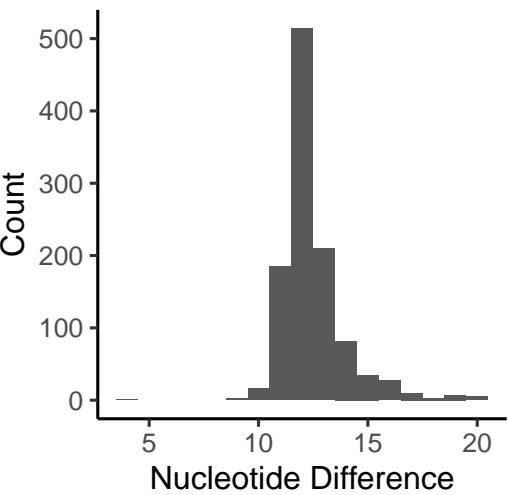
IGHV3-48\*03

63 sequences assigned  
No exact matches.



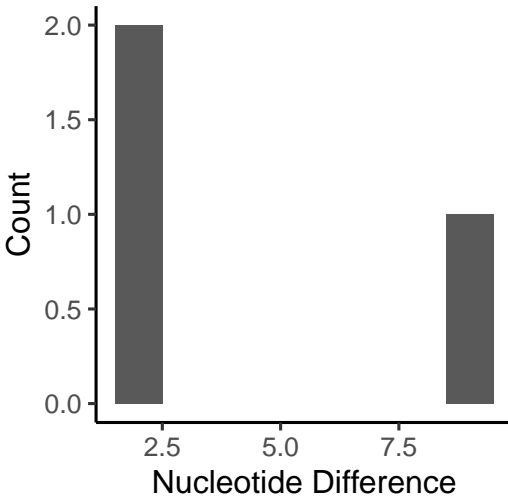
IGHV3-23\*01\_04

1147 sequences assigned  
No exact matches.



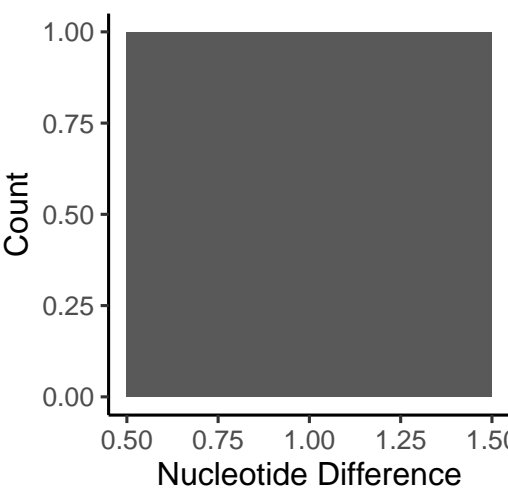
IGHV3-30\*18

3 sequences assigned  
No exact matches.



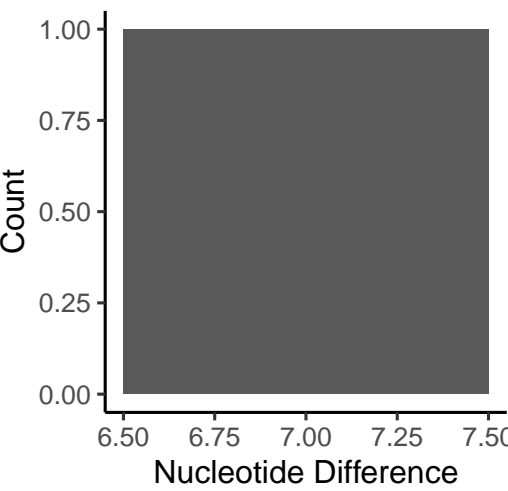
IGHV3-48\*04

1 sequences assigned  
No exact matches.



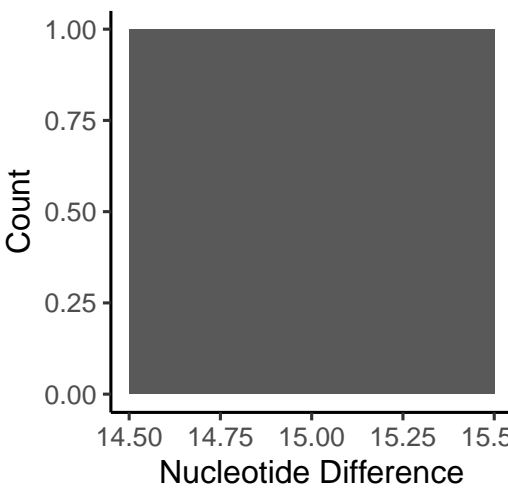
IGHV3-30-3\*01

1 sequences assigned  
No exact matches.



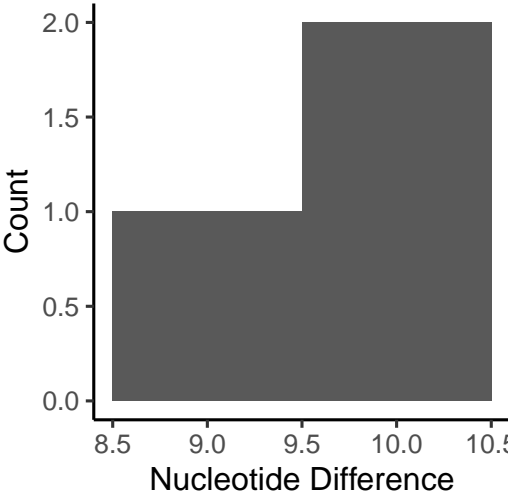
IGHV3-33\*08

2 sequences assigned  
No exact matches.



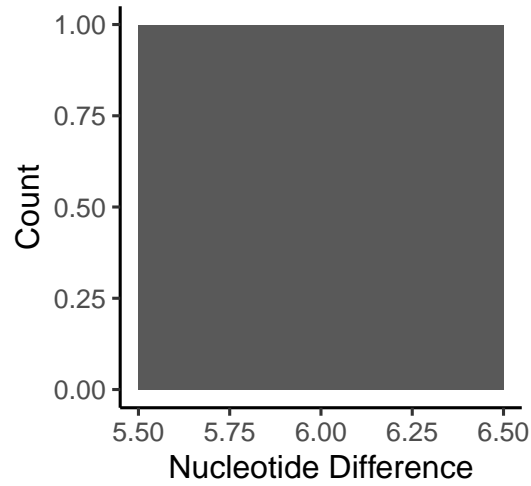
IGHV3-49\*04

3 sequences assigned  
No exact matches.



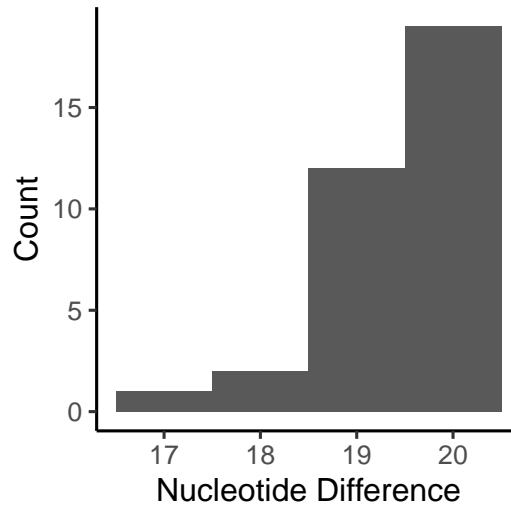
### IGHV3-49\*03\_05

1 sequences assigned  
No exact matches.



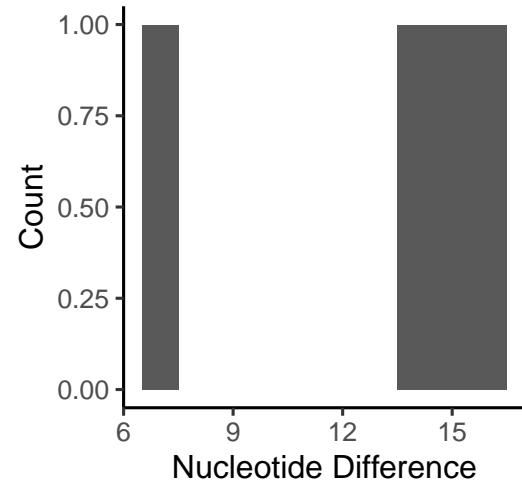
### IGHV3-74\*03

45 sequences assigned  
No exact matches.



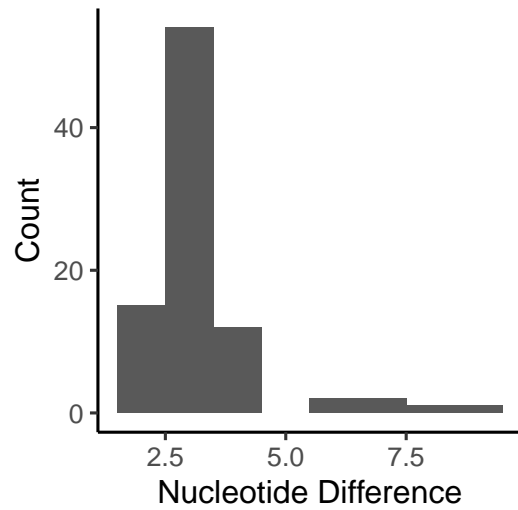
### IGHV4-4\*02\_03

17 sequences assigned  
No exact matches.



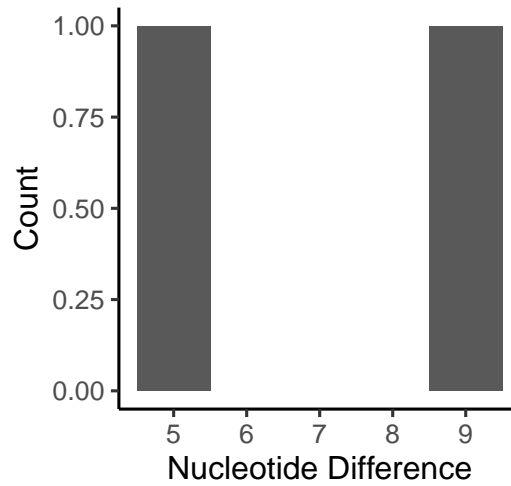
### IGHV3-66\*01

87 sequences assigned  
No exact matches.



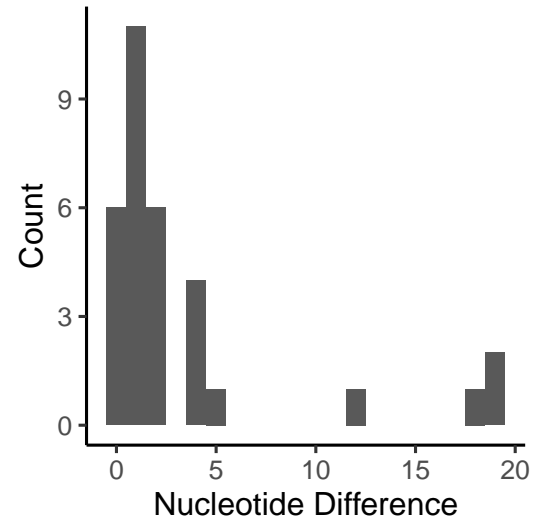
### IGHV3-74\*01\_02

3 sequences assigned  
No exact matches.



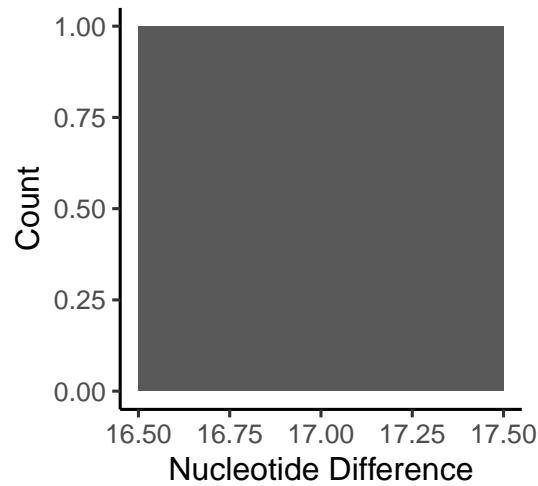
### IGHV4-31\*02

35 sequences assigned  
6 (17.1%) exact matches, in which:  
4 unique CDR3  
2 unique J



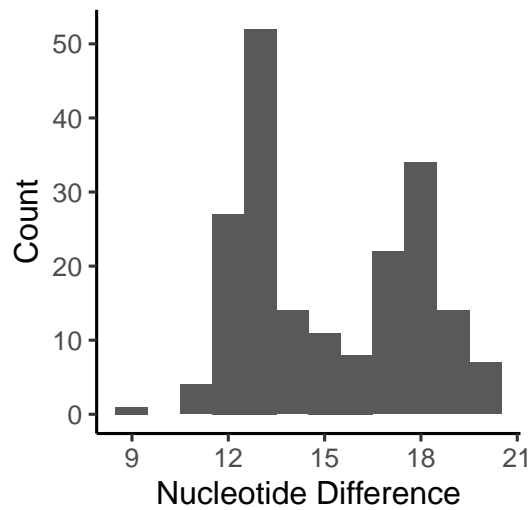
### IGHV3-72\*01

1 sequences assigned  
No exact matches.



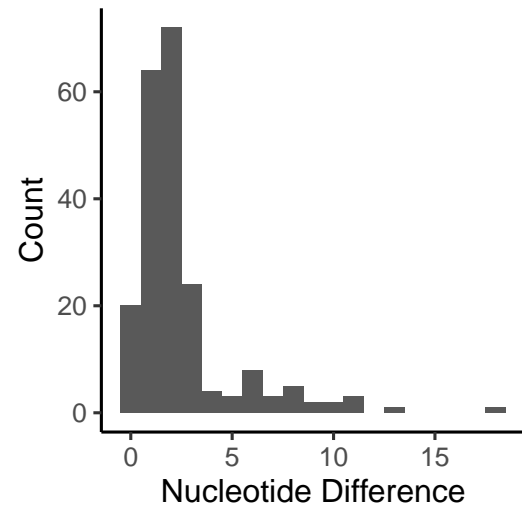
### IGHV4-4\*07

202 sequences assigned  
No exact matches.



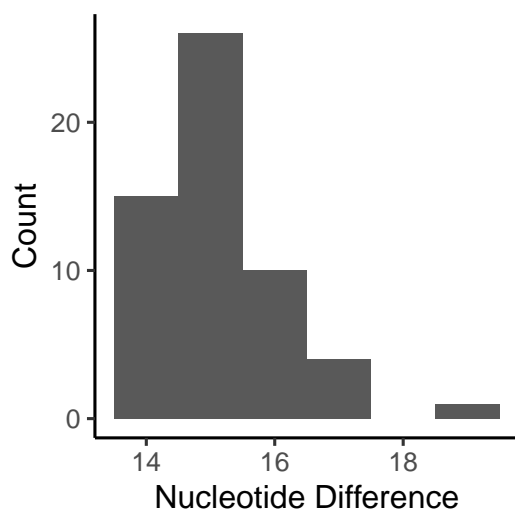
### IGHV4-34\*01\_02

212 sequences assigned  
20 (9.4%) exact matches, in which:  
13 unique CDR3  
2 unique J



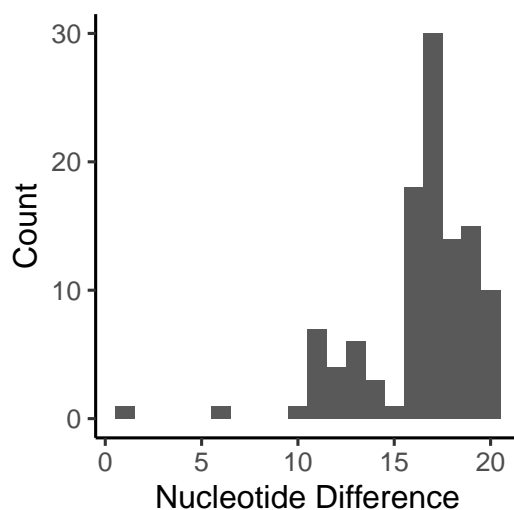
### IGHV4-39\*02

60 sequences assigned  
No exact matches.



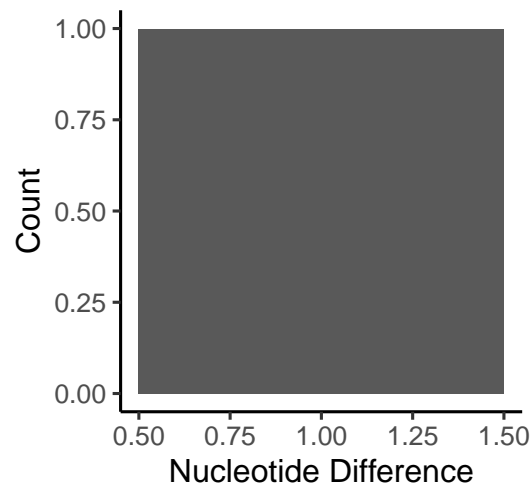
### IGHV4-59\*12

124 sequences assigned  
No exact matches.



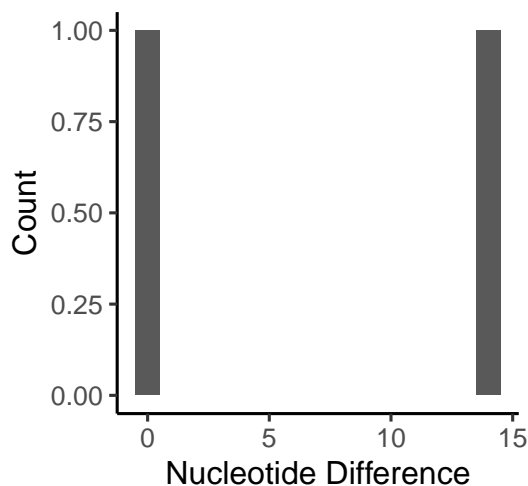
### IGHV5-10-1\*01\_03

2 sequences assigned  
No exact matches.



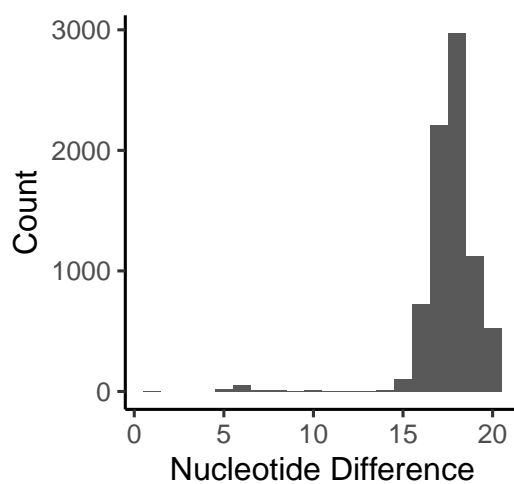
### IGHV4-39\*01\_05

52 sequences assigned  
1 (1.9%) exact matches, in which:  
1 unique CDR3  
1 unique J



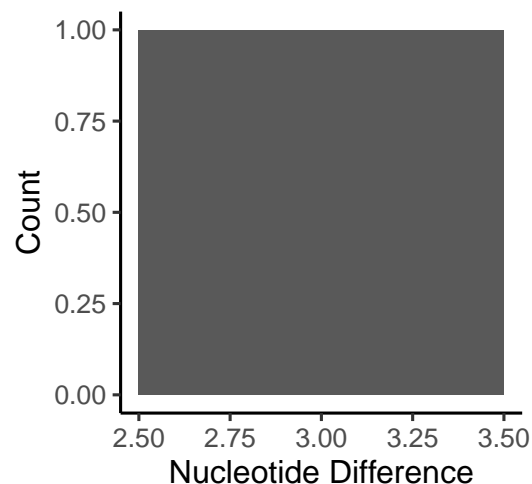
### IGHV4-59\*01\_07

8504 sequences assigned  
No exact matches.



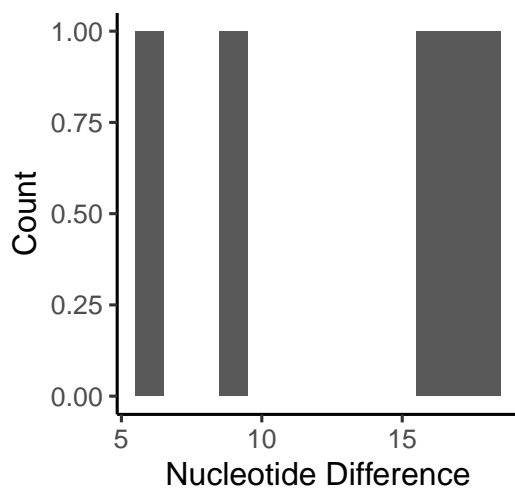
### IGHV5-51\*01\_03

1 sequences assigned  
No exact matches.



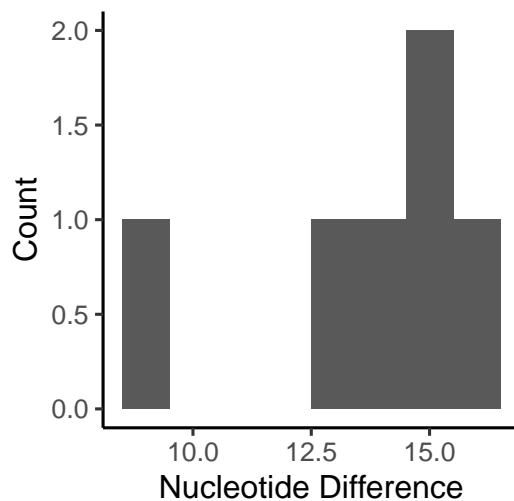
### IGHV4-59\*08

6 sequences assigned  
No exact matches.



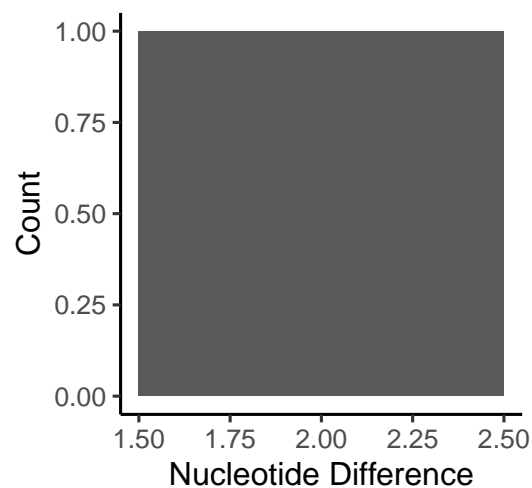
### IGHV4-61\*08

9 sequences assigned  
No exact matches.

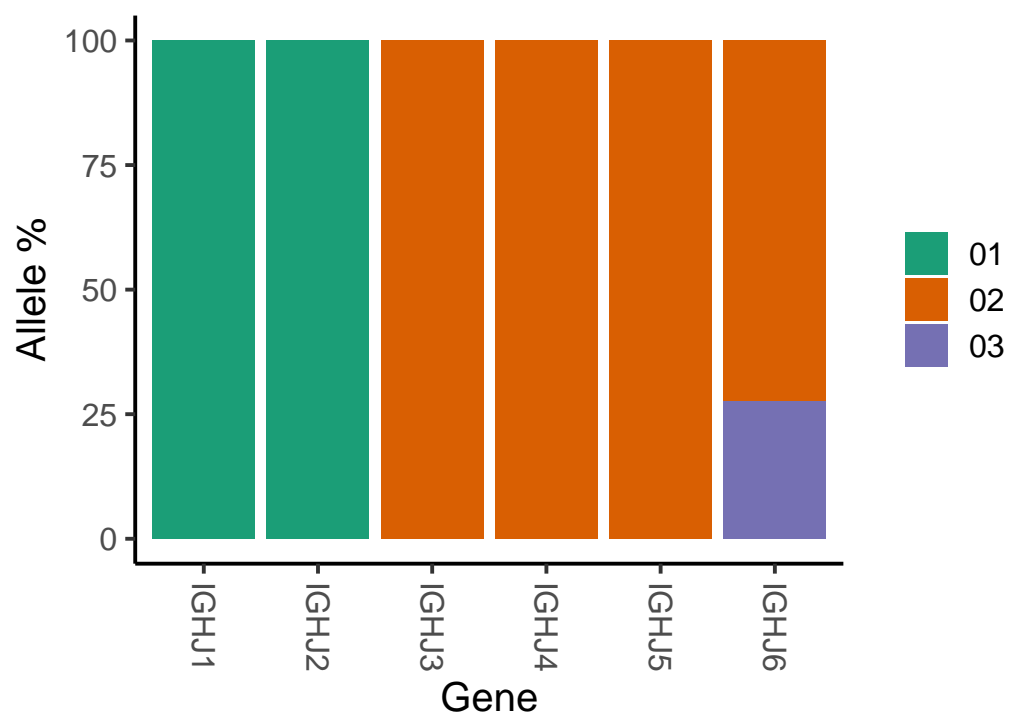


### IGHV7-4-1\*02

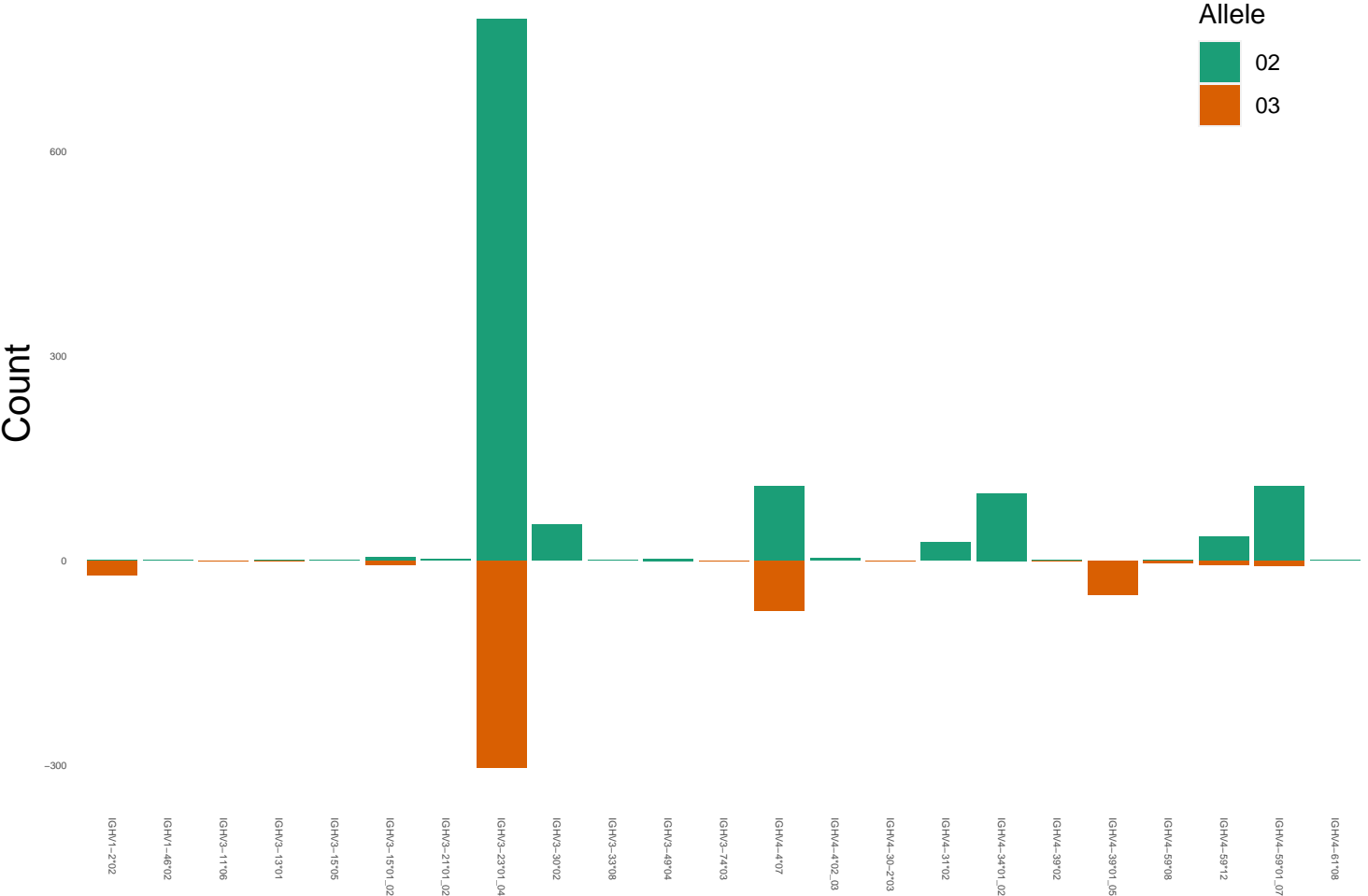
1 sequences assigned  
No exact matches.



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.