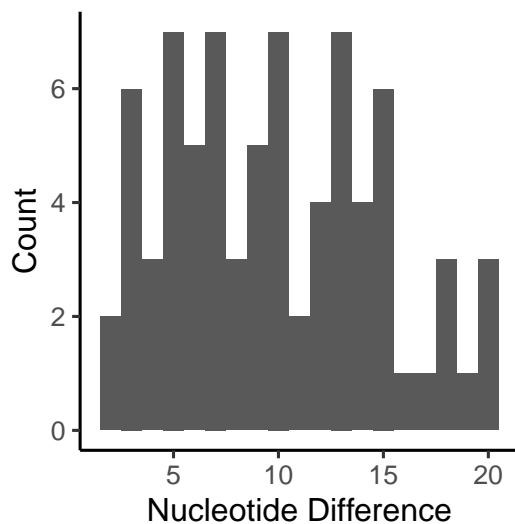


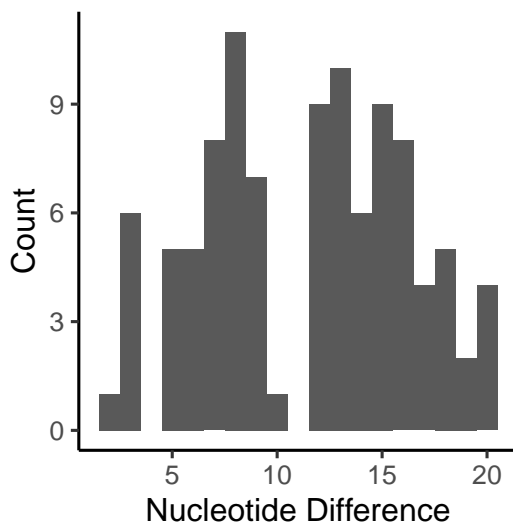
### IGHV1-2\*04

93 sequences assigned  
No exact matches.



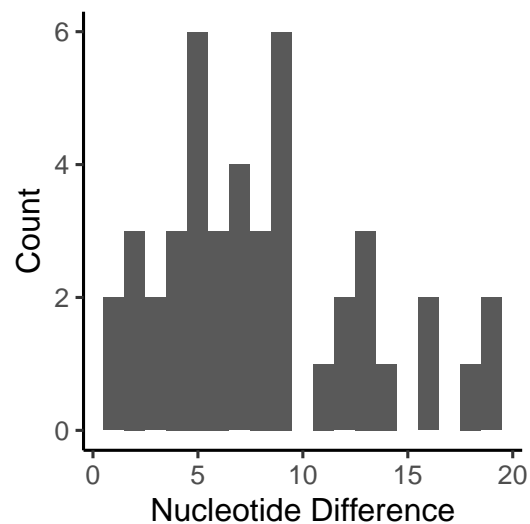
### IGHV1-8\*01

126 sequences assigned  
No exact matches.



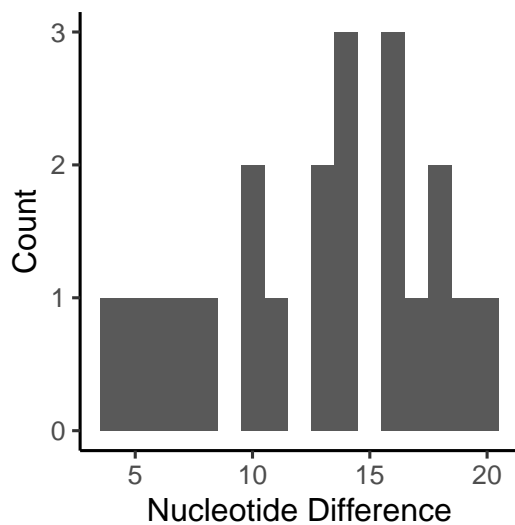
### IGHV1-24\*01

67 sequences assigned  
No exact matches.



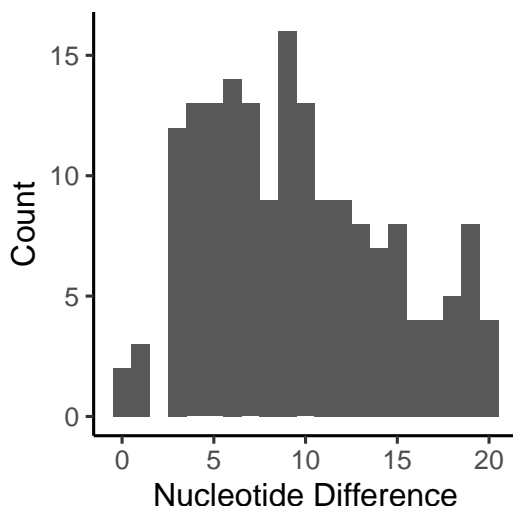
### IGHV1-3\*04

25 sequences assigned  
No exact matches.



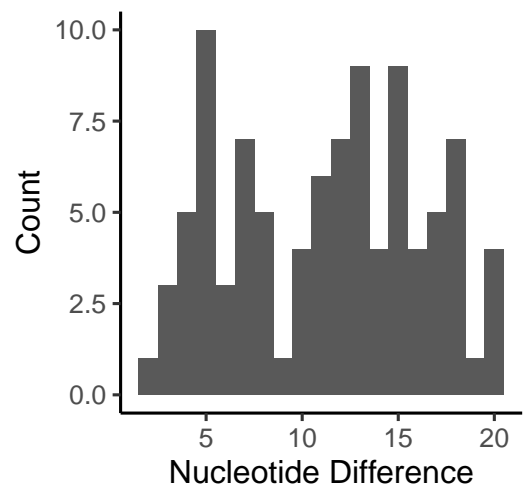
### IGHV1-18\*01

237 sequences assigned  
2 (0.8%) exact matches, in which:  
2 unique CDR3  
2 unique J



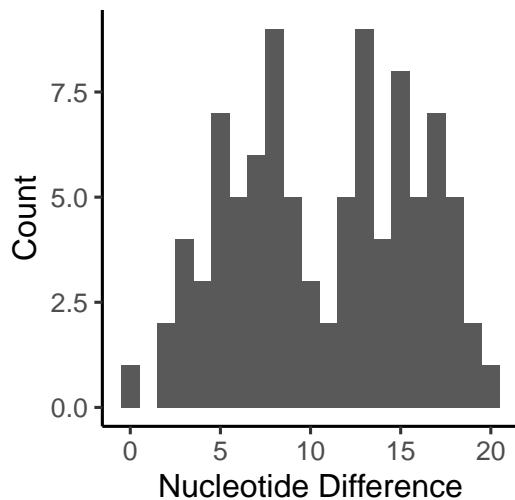
### IGHV1-46\*01

122 sequences assigned  
No exact matches.



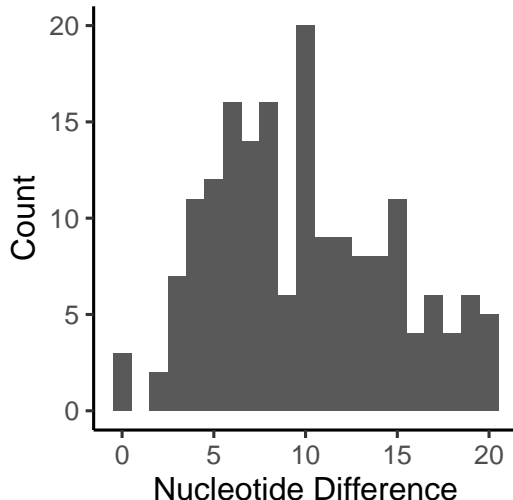
### IGHV1-3\*01\_05

119 sequences assigned  
1 (0.8%) exact matches, in which:  
1 unique CDR3  
1 unique J



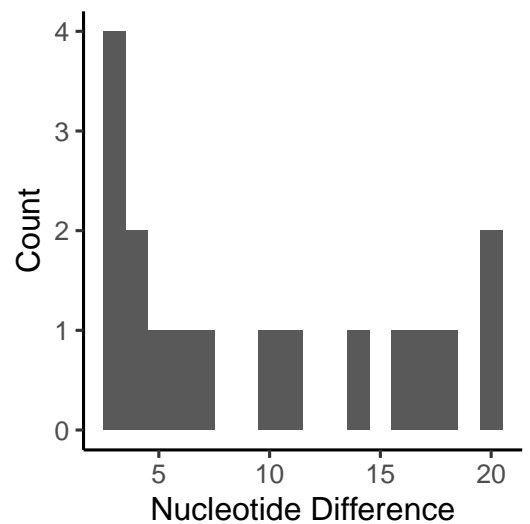
### IGHV1-18\*04

234 sequences assigned  
3 (1.3%) exact matches, in which:  
3 unique CDR3  
2 unique J



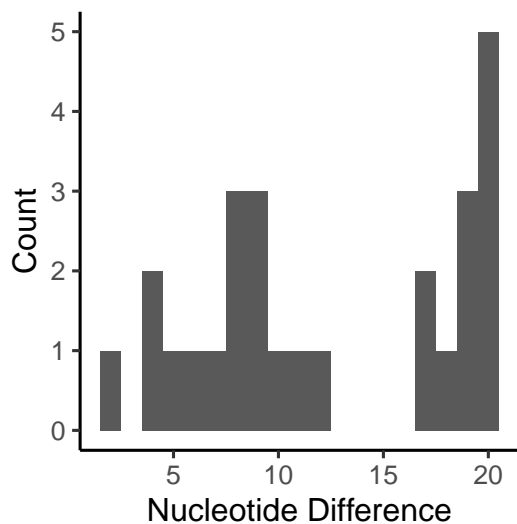
### IGHV1-58\*01\_03

22 sequences assigned  
No exact matches.



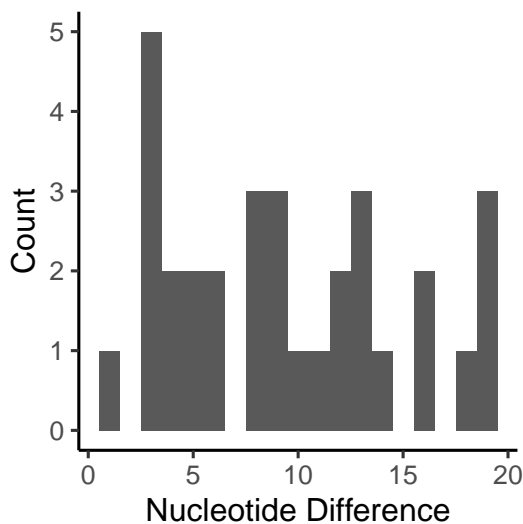
### IGHV1–69\*06\_14

48 sequences assigned  
No exact matches.



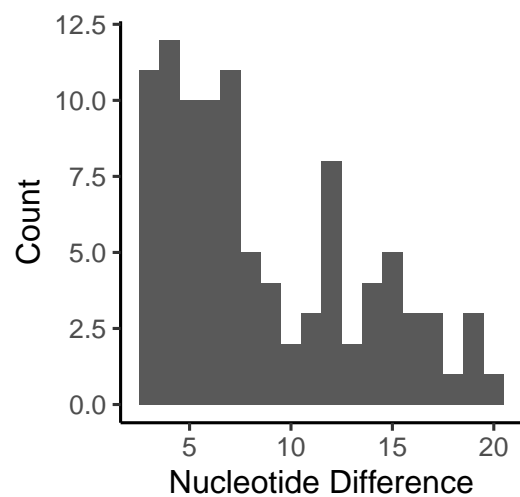
### IGHV2–70\*01

41 sequences assigned  
No exact matches.



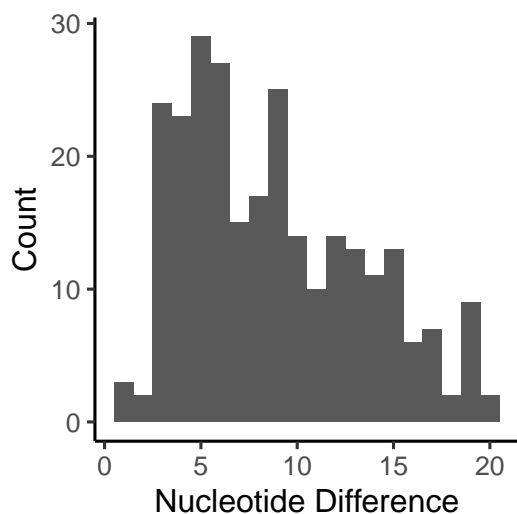
### IGHV3–9\*01

111 sequences assigned  
No exact matches.



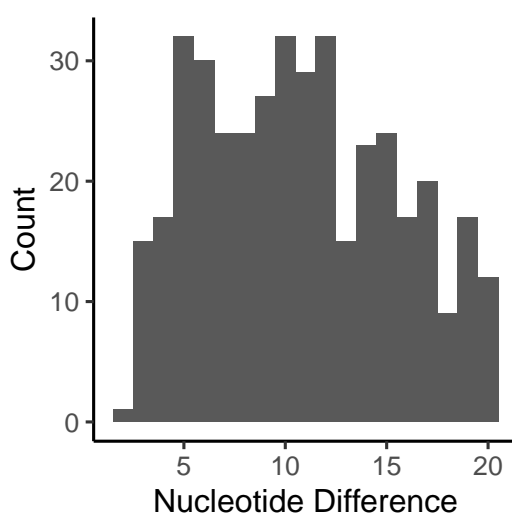
### IGHV2–5\*02

297 sequences assigned  
No exact matches.



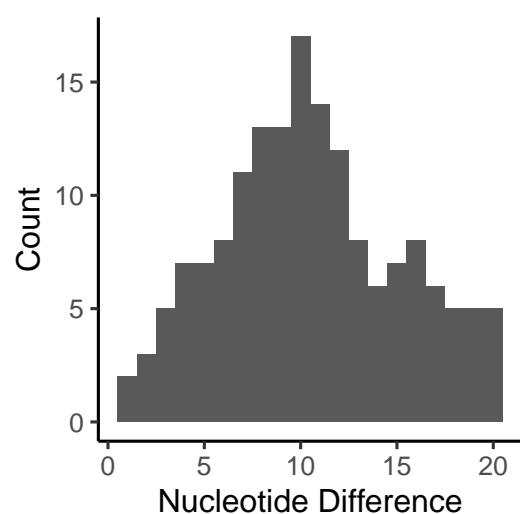
### IGHV3–7\*01

460 sequences assigned  
No exact matches.



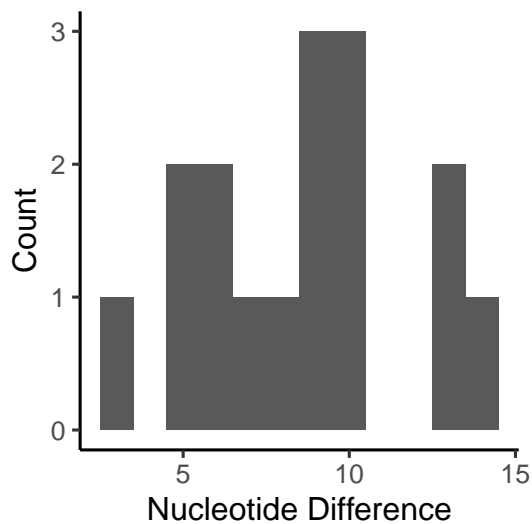
### IGHV3–11\*01

185 sequences assigned  
No exact matches.



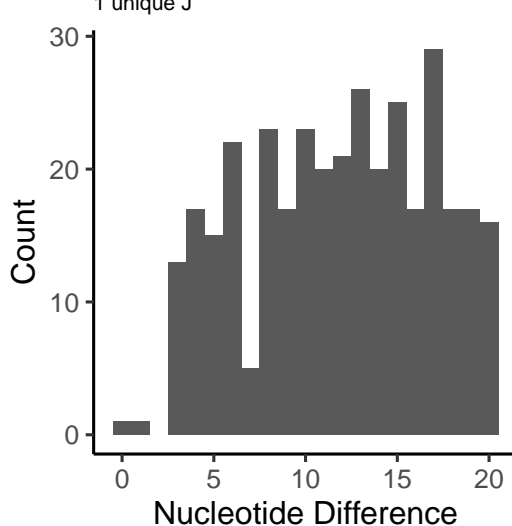
### IGHV2–26\*01

21 sequences assigned  
No exact matches.



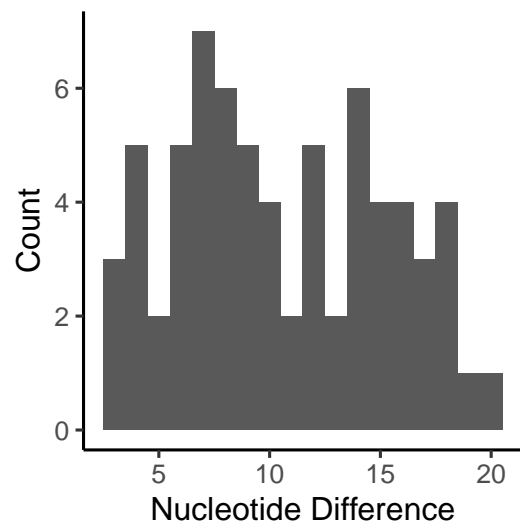
### IGHV3–7\*03

430 sequences assigned  
1 (0.2%) exact matches, in which:  
1 unique CDR3  
1 unique J



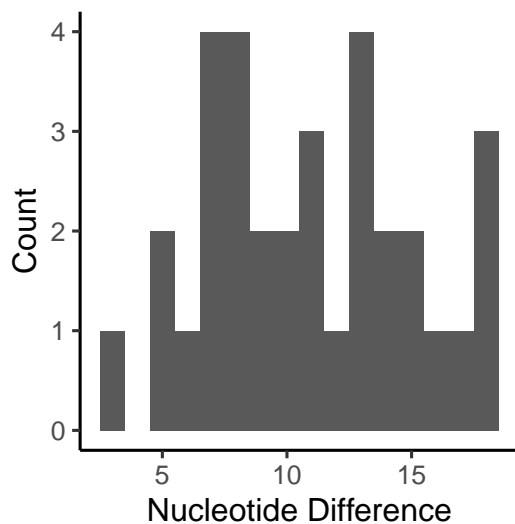
### IGHV3–11\*06

77 sequences assigned  
No exact matches.



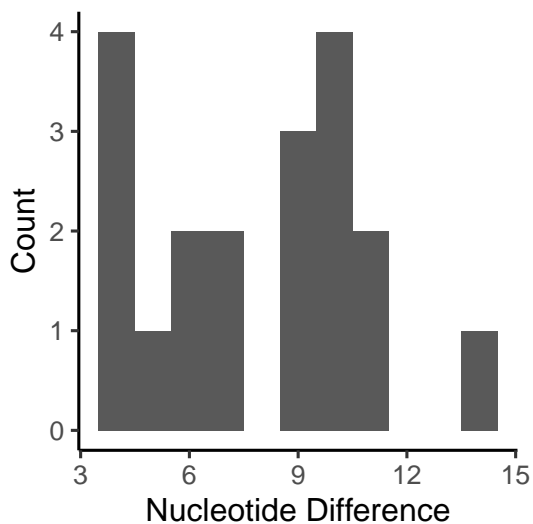
### IGHV3-13\*01

41 sequences assigned  
No exact matches.



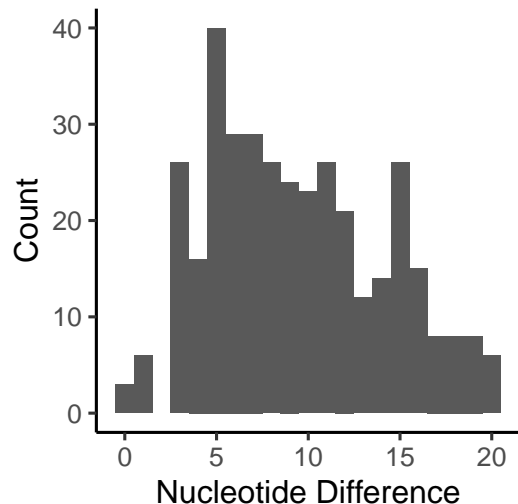
### IGHV3-20\*01\_02

19 sequences assigned  
No exact matches.



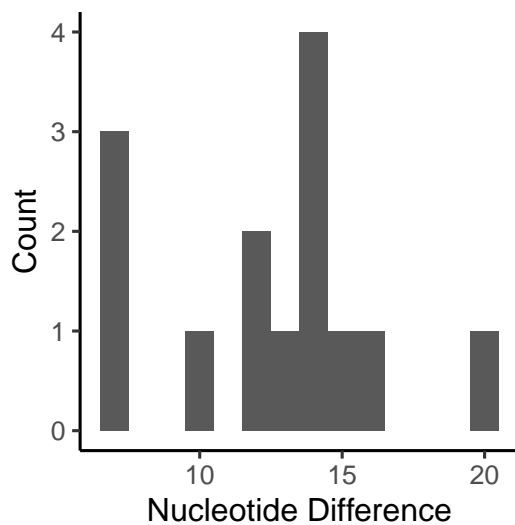
### IGHV3-21\*01\_02

424 sequences assigned  
3 (0.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



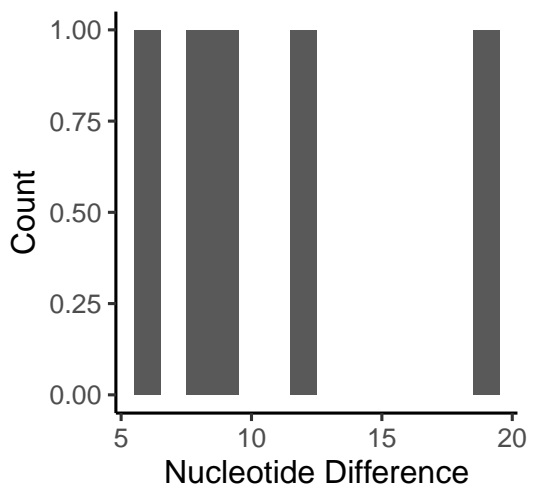
### IGHV3-13\*05

16 sequences assigned  
No exact matches.



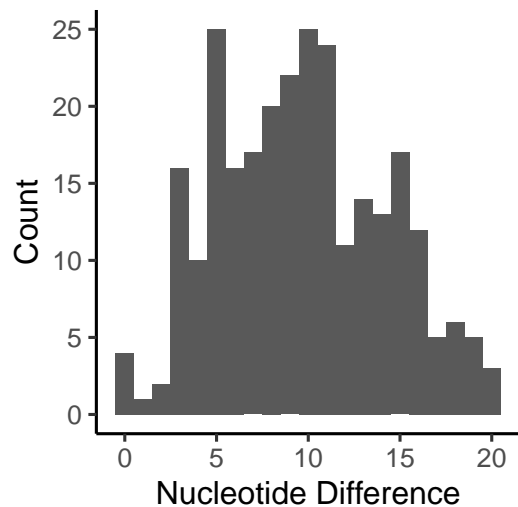
### IGHV3-20\*03\_04

5 sequences assigned  
No exact matches.



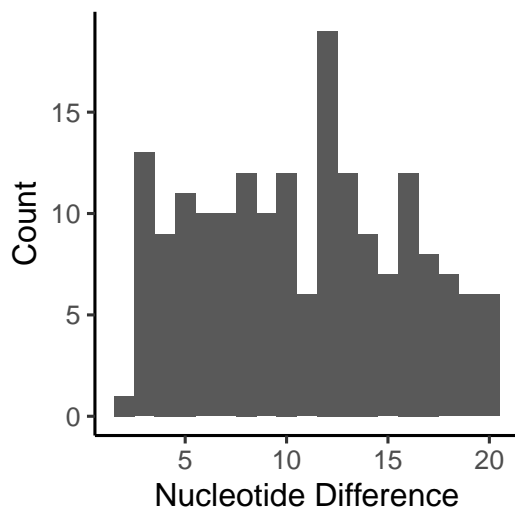
### IGHV3-30-3\*01

325 sequences assigned  
4 (1.2%) exact matches, in which:  
2 unique CDR3  
1 unique J



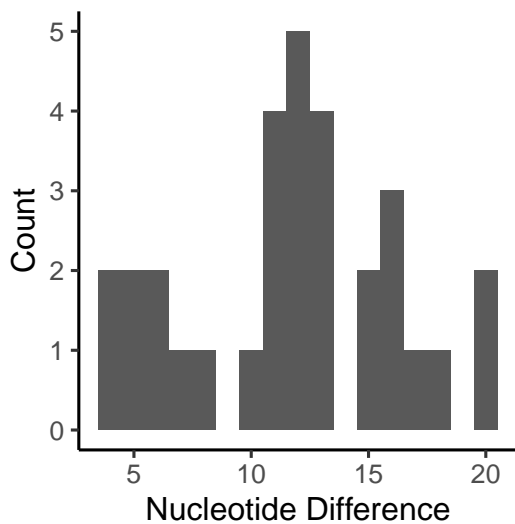
### IGHV3-15\*01\_02

237 sequences assigned  
No exact matches.



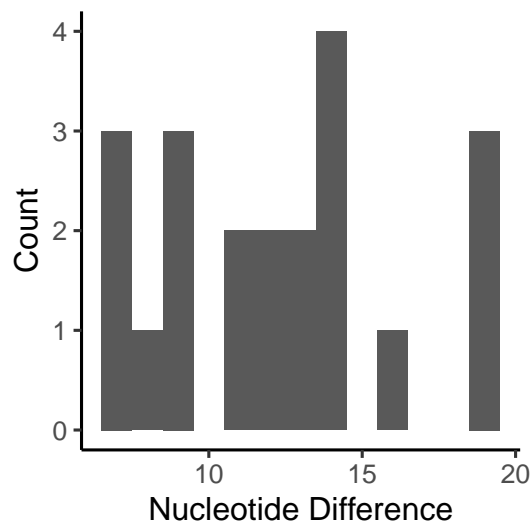
### IGHV3-21\*06

61 sequences assigned  
No exact matches.



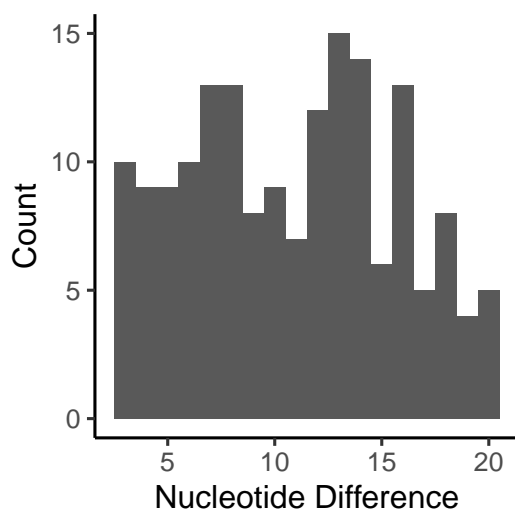
### IGHV3-30\*04

29 sequences assigned  
No exact matches.



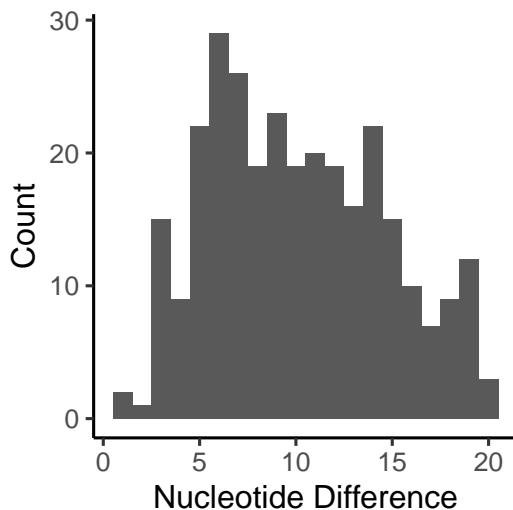
### IGHV3-33\*01

201 sequences assigned  
No exact matches.



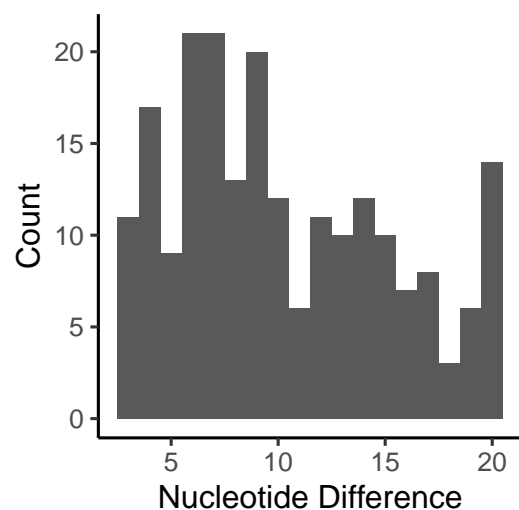
### IGHV3-48\*03

341 sequences assigned  
No exact matches.



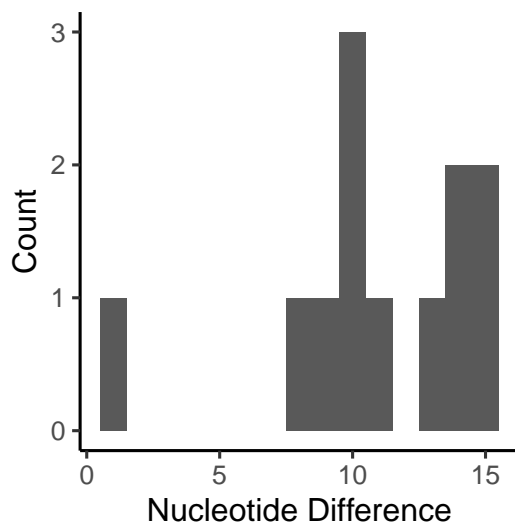
### IGHV3-53\*01\_02

264 sequences assigned  
No exact matches.



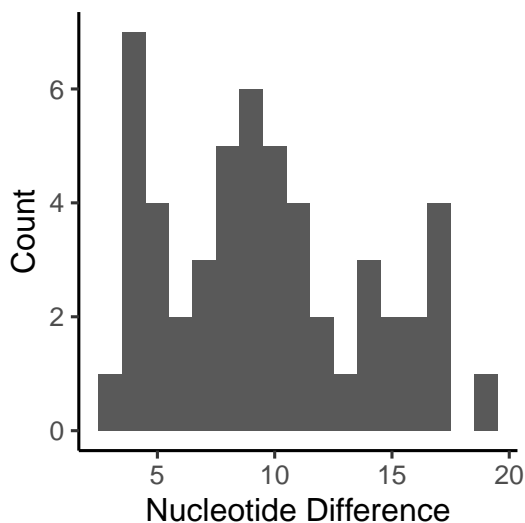
### IGHV3-43\*01

17 sequences assigned  
No exact matches.



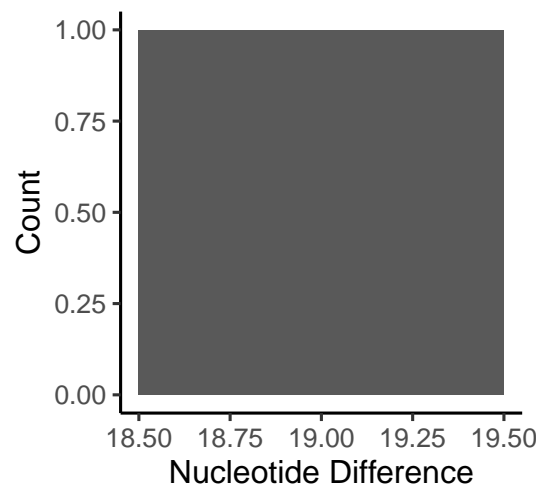
### IGHV3-49\*04

69 sequences assigned  
No exact matches.



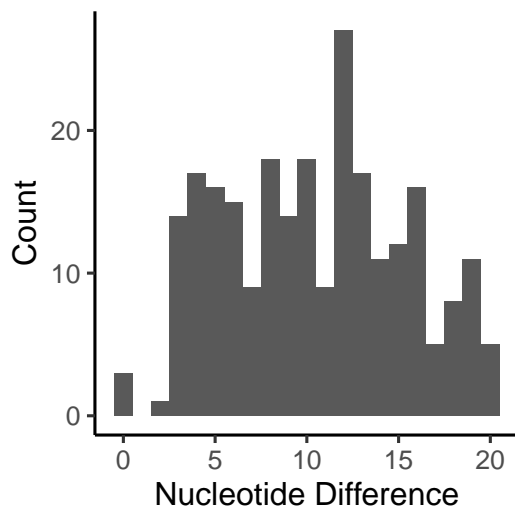
### IGHV3-64\*05

1 sequences assigned  
No exact matches.



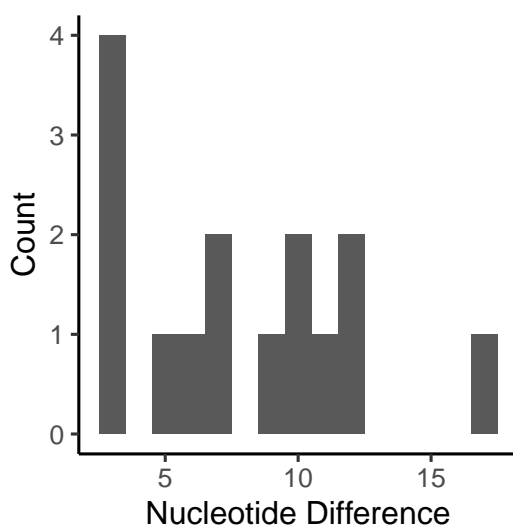
### IGHV3-48\*02

282 sequences assigned  
3 (1.1%) exact matches, in which:  
2 unique CDR3  
1 unique J



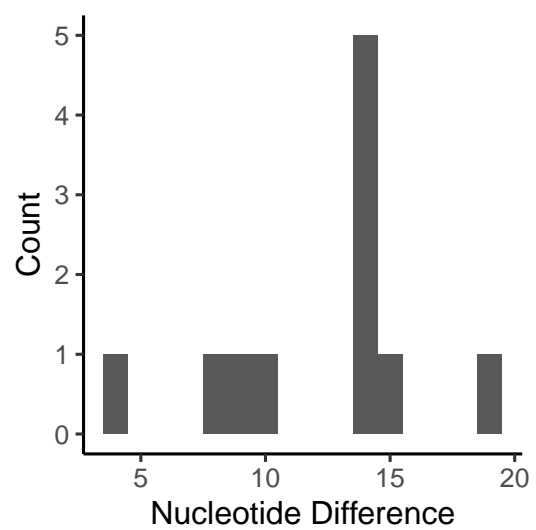
### IGHV3-49\*03\_05

21 sequences assigned  
No exact matches.



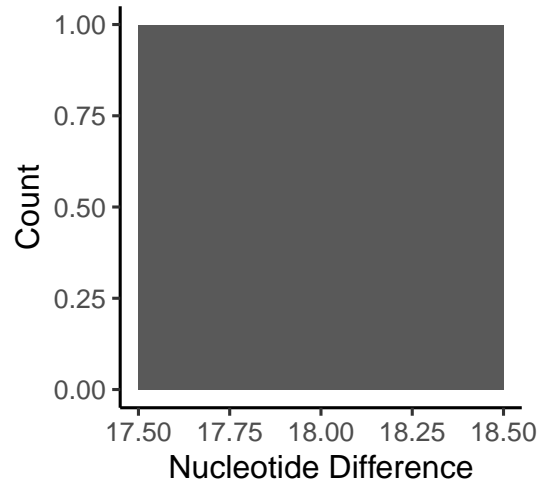
### IGHV3-64\*02\_07

12 sequences assigned  
No exact matches.



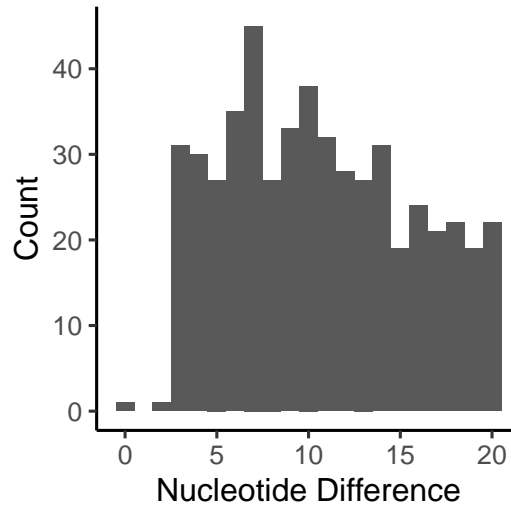
### IGHV3-69-1\*01

2 sequences assigned  
No exact matches.



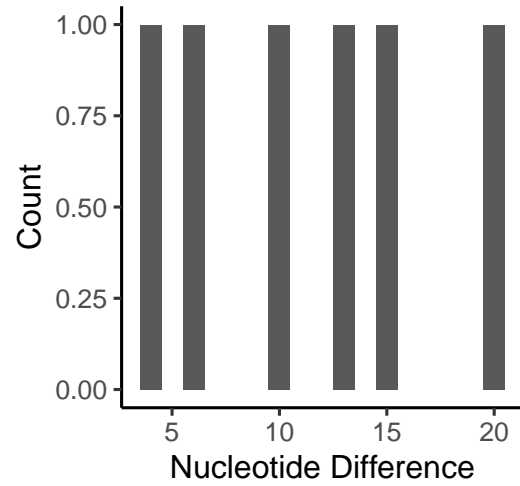
### IGHV3-74\*01\_02

600 sequences assigned  
1 (0.2%) exact matches, in which:  
1 unique CDR3  
1 unique J



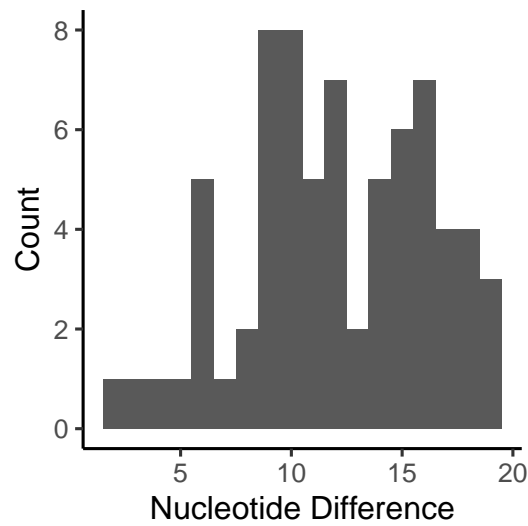
### IGHV4-28\*01\_07

7 sequences assigned  
No exact matches.



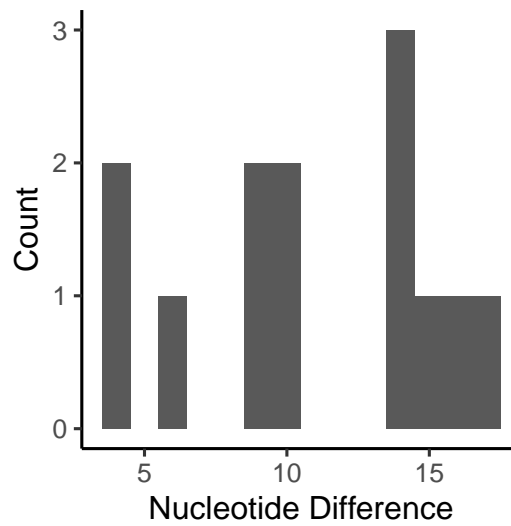
### IGHV3-72\*01

82 sequences assigned  
No exact matches.



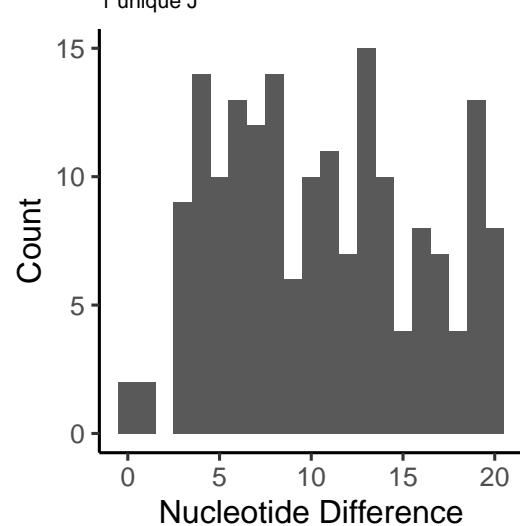
### IGHV3-43D\*04

15 sequences assigned  
No exact matches.



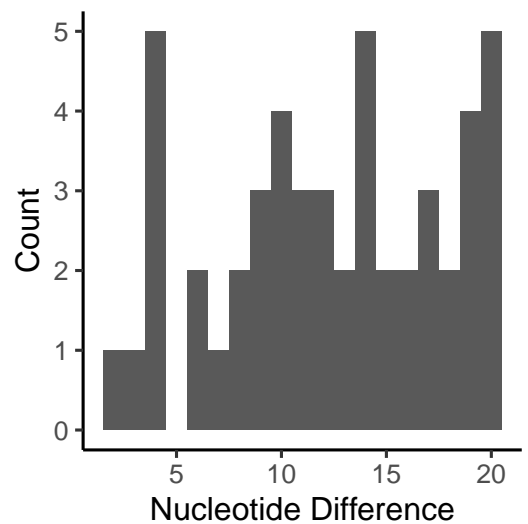
### IGHV4-30-4\*01

227 sequences assigned  
2 (0.9%) exact matches, in which:  
2 unique CDR3  
1 unique J



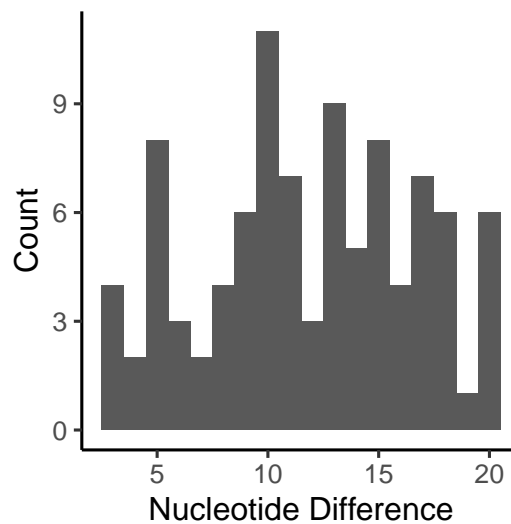
### IGHV3-73\*01\_02

57 sequences assigned  
No exact matches.



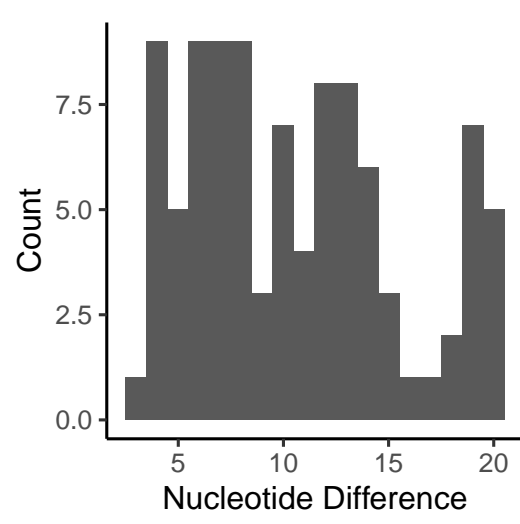
### IGHV3-64D\*06

119 sequences assigned  
No exact matches.



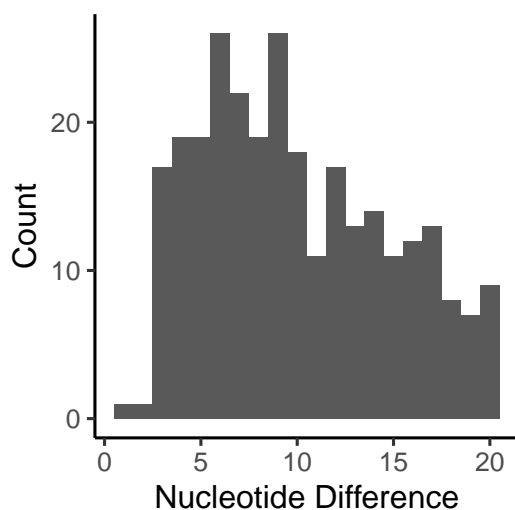
### IGHV4-30-2\*01

127 sequences assigned  
No exact matches.



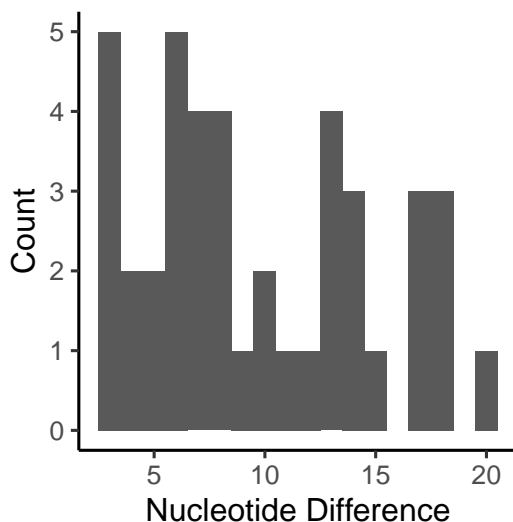
### IGHV4-31\*03\_04

354 sequences assigned  
No exact matches.



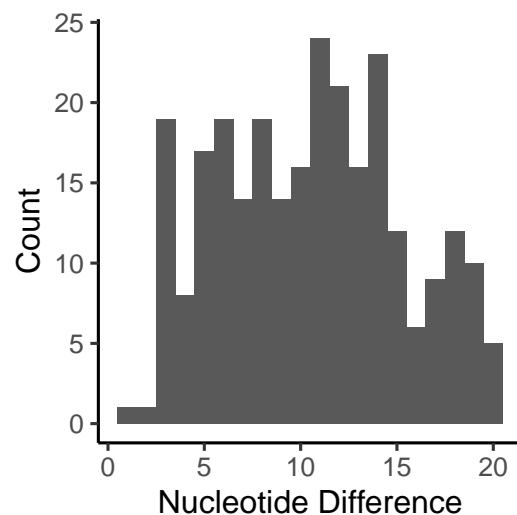
### IGHV4-38-2\*02

61 sequences assigned  
No exact matches.



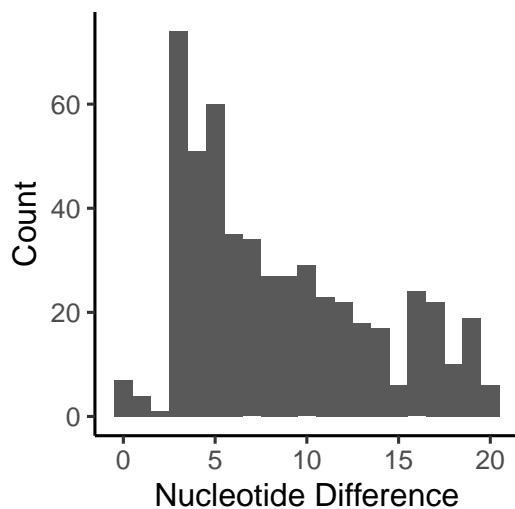
### IGHV4-61\*01

362 sequences assigned  
No exact matches.



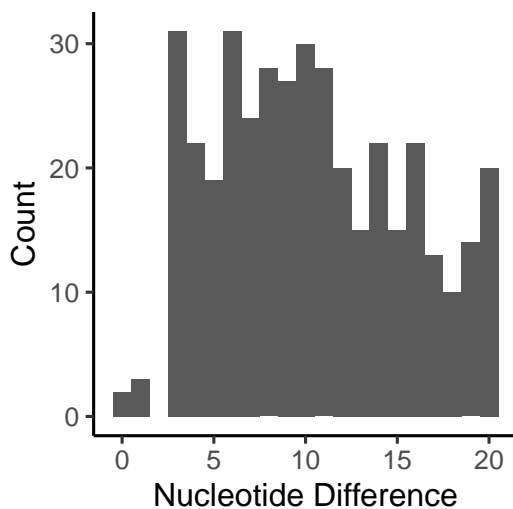
### IGHV4-34\*01\_02

737 sequences assigned  
7 (0.9%) exact matches, in which:  
6 unique CDR3  
3 unique J



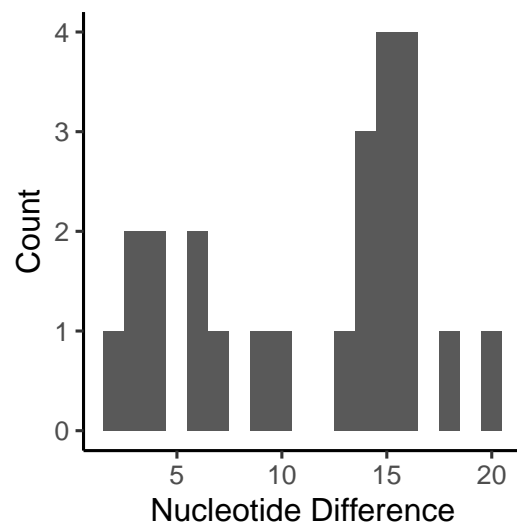
### IGHV4-39\*01\_05

522 sequences assigned  
2 (0.4%) exact matches, in which:  
2 unique CDR3  
1 unique J



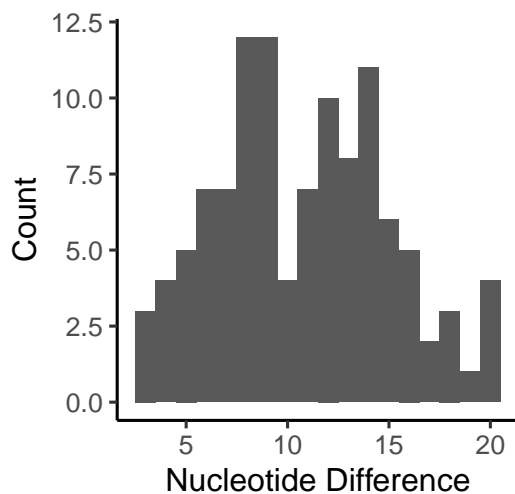
### IGHV5-10-1\*01\_03

29 sequences assigned  
No exact matches.



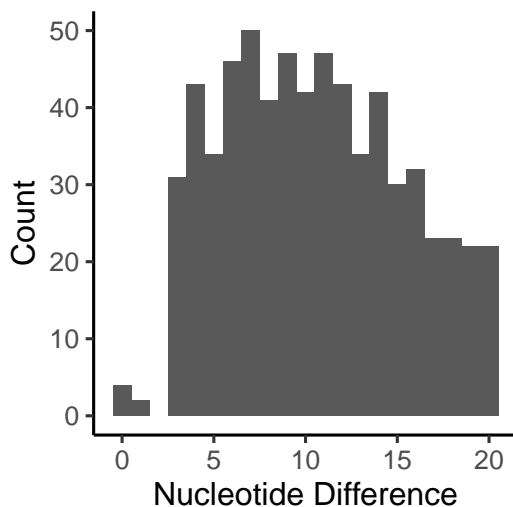
### IGHV4-38-2\*01

127 sequences assigned  
No exact matches.



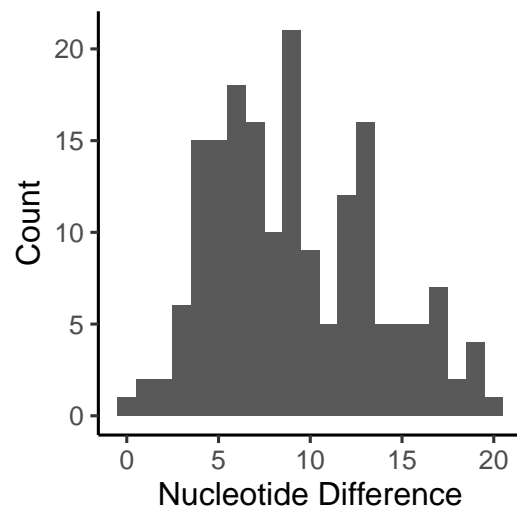
### IGHV4-59\*01\_07

824 sequences assigned  
4 (0.5%) exact matches, in which:  
4 unique CDR3  
1 unique J



### IGHV5-51\*01\_03

199 sequences assigned  
1 (0.5%) exact matches, in which:  
1 unique CDR3  
1 unique J



IGHV6-1\*01\_02

352 sequences assigned  
No exact matches.

