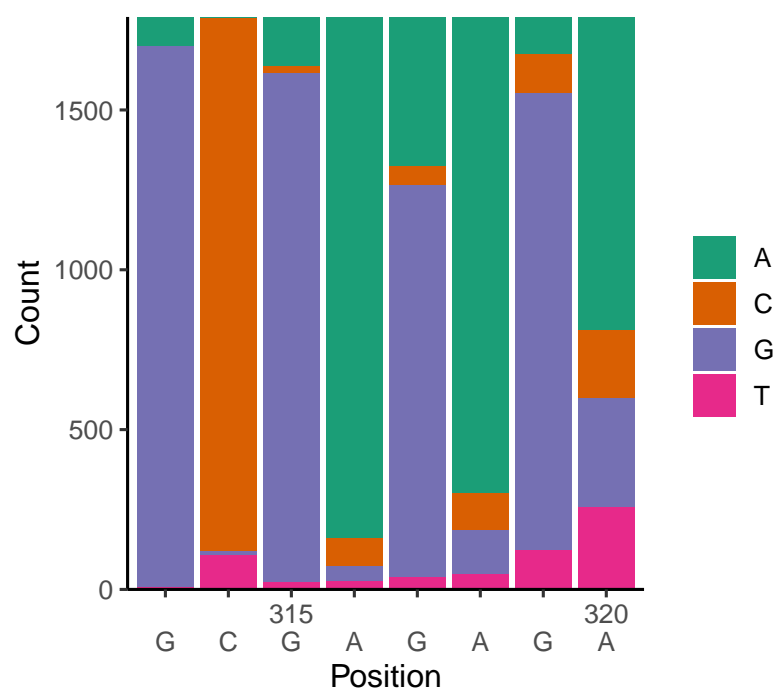


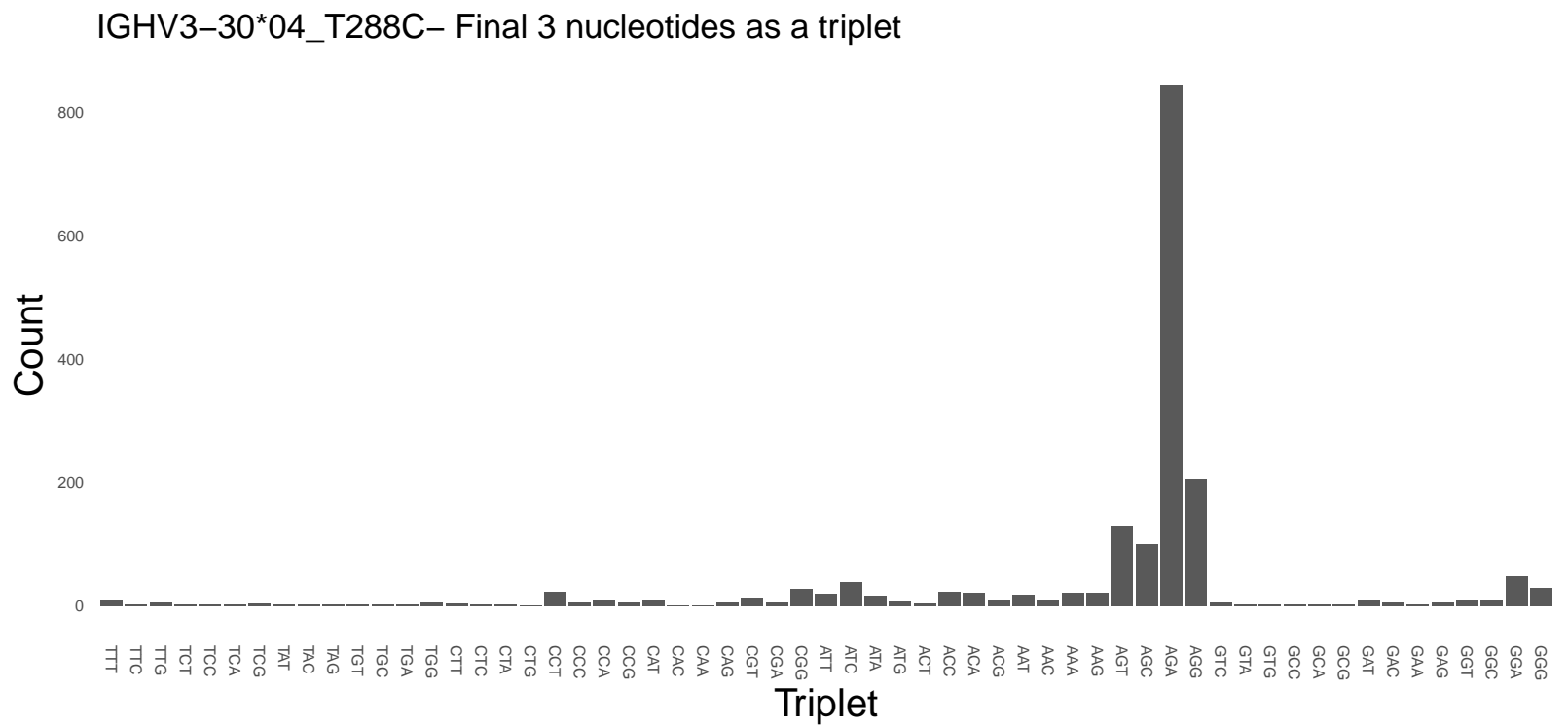
# Gene IGHV3-30\*04\_T288C



Gene IGHV3-30\*04\_T288C

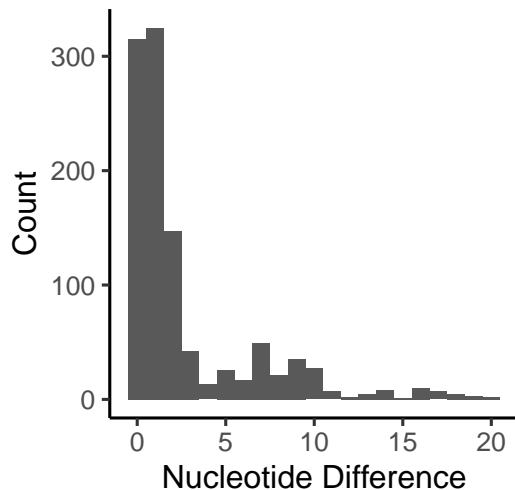


IGHV3-30\*04\_T288C- Final 3 nucleotides as a triplet



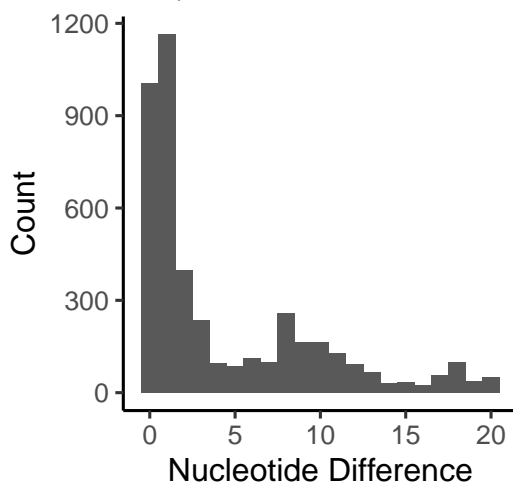
### IGHV1-2\*04

1174 sequences assigned  
315 (26.8%) exact matches, in which:  
269 unique CDR3  
6 unique J



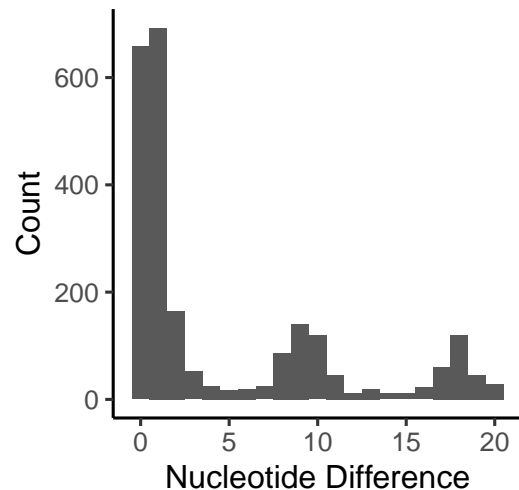
### IGHV1-3\*01\_05

5579 sequences assigned  
1006 (18%) exact matches, in which:  
821 unique CDR3  
6 unique J



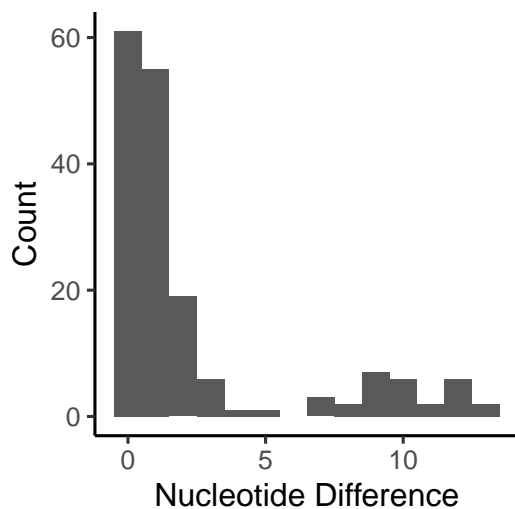
### IGHV1-24\*01

2679 sequences assigned  
658 (24.6%) exact matches, in which:  
545 unique CDR3  
6 unique J



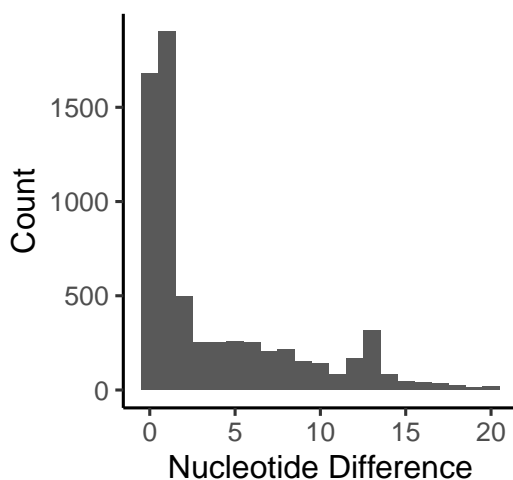
### IGHV1-2\*05

171 sequences assigned  
61 (35.7%) exact matches, in which:  
50 unique CDR3  
5 unique J



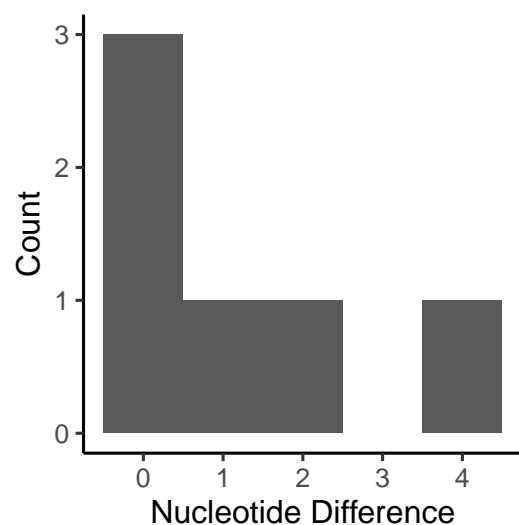
### IGHV1-8\*01

7825 sequences assigned  
1679 (21.5%) exact matches, in which:  
1414 unique CDR3  
6 unique J



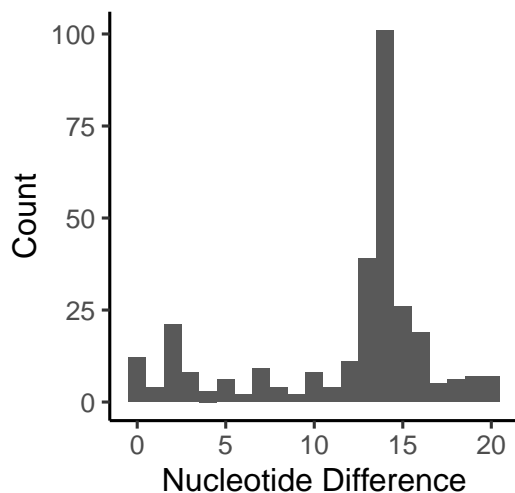
### IGHV1-45\*02

6 sequences assigned  
3 (50%) exact matches, in which:  
3 unique CDR3  
2 unique J



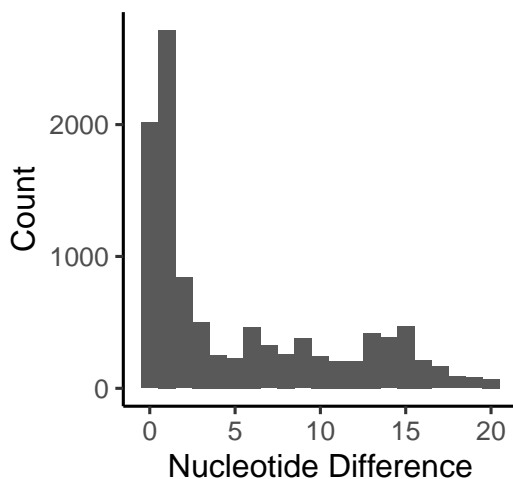
### IGHV1-2\*06

323 sequences assigned  
12 (3.7%) exact matches, in which:  
12 unique CDR3  
4 unique J



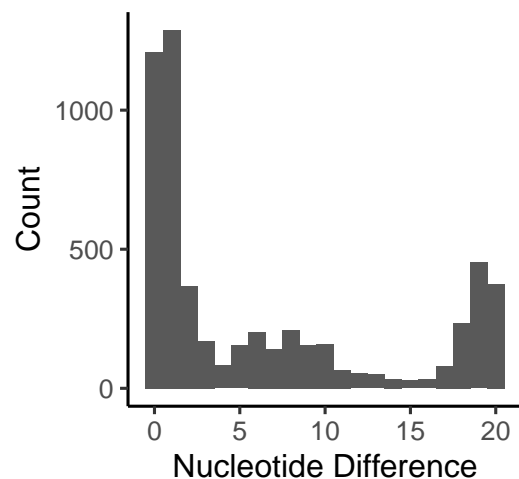
### IGHV1-18\*01

11765 sequences assigned  
2017 (17.1%) exact matches, in which:  
1627 unique CDR3  
6 unique J



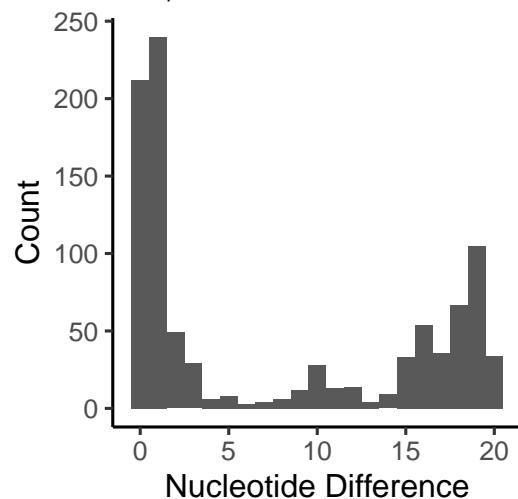
### IGHV1-46\*01

6366 sequences assigned  
1208 (19%) exact matches, in which:  
1020 unique CDR3  
6 unique J



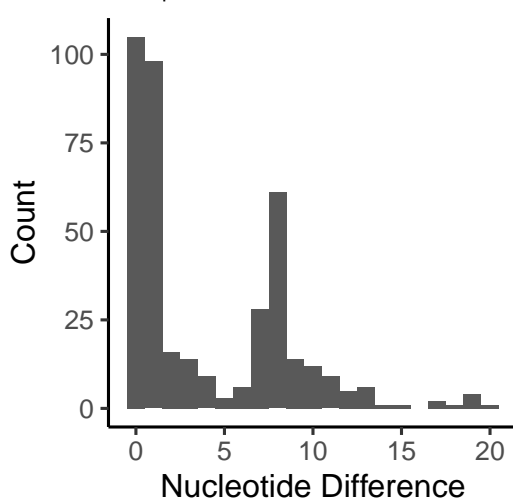
### IGHV1–58\*01\_03

1204 sequences assigned  
212 (17.6%) exact matches, in which:  
175 unique CDR3  
6 unique J



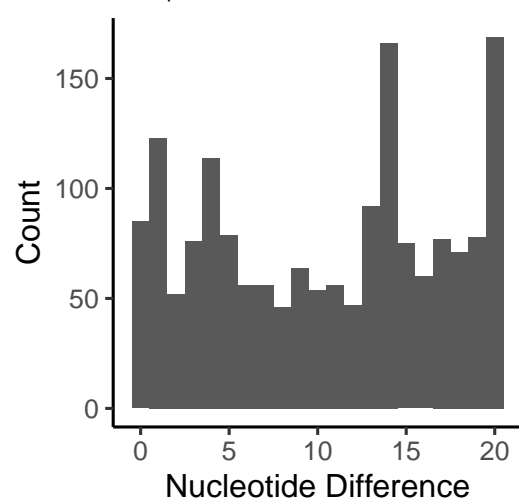
### IGHV2–26\*01

404 sequences assigned  
105 (26%) exact matches, in which:  
92 unique CDR3  
5 unique J



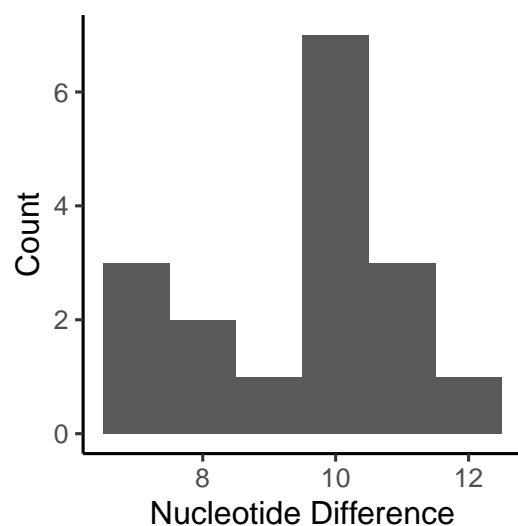
### IGHV3–7\*03

2474 sequences assigned  
85 (3.4%) exact matches, in which:  
76 unique CDR3  
6 unique J



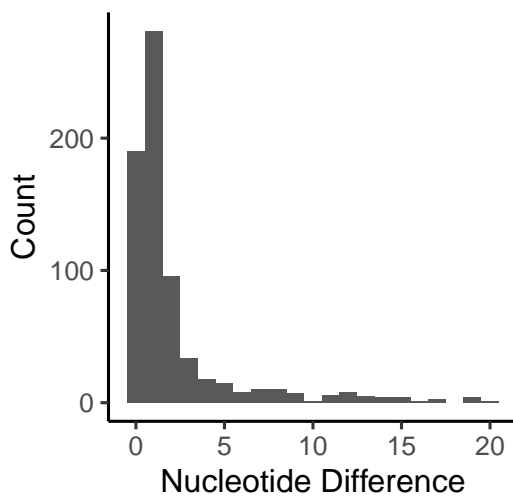
### IGHV1–NL1\*01

17 sequences assigned  
No exact matches.



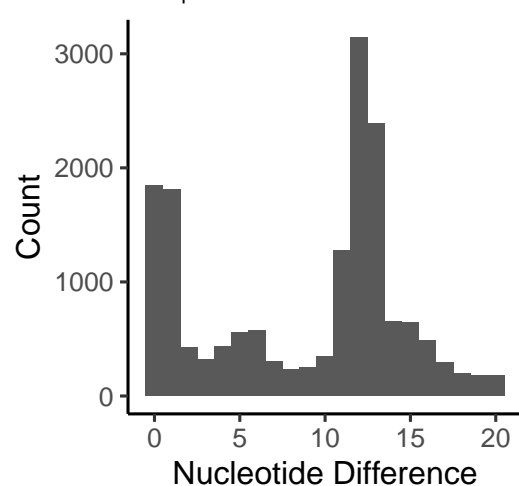
### IGHV2–70\*01

718 sequences assigned  
190 (26.5%) exact matches, in which:  
153 unique CDR3  
4 unique J



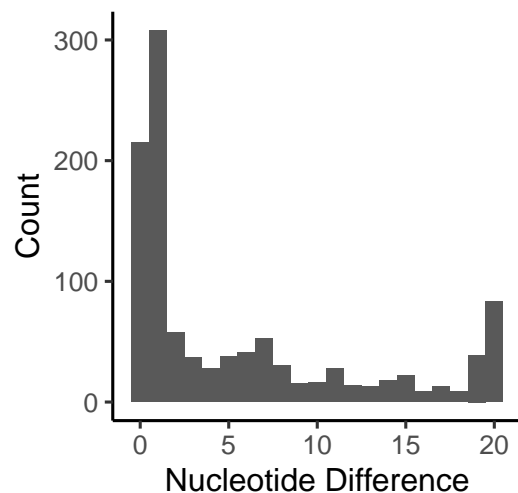
### IGHV3–9\*01

17579 sequences assigned  
1842 (10.5%) exact matches, in which:  
1022 unique CDR3  
6 unique J



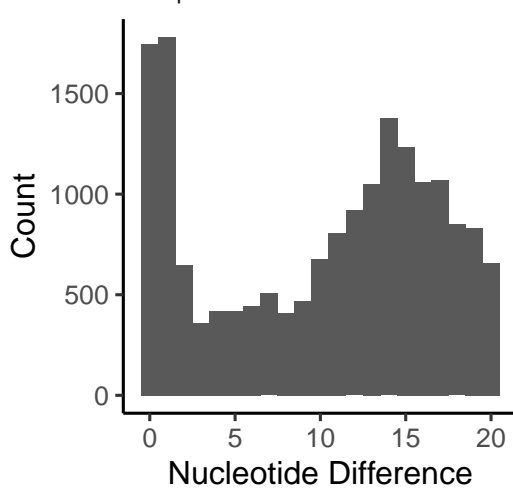
### IGHV2–5\*02

1252 sequences assigned  
215 (17.2%) exact matches, in which:  
175 unique CDR3  
6 unique J



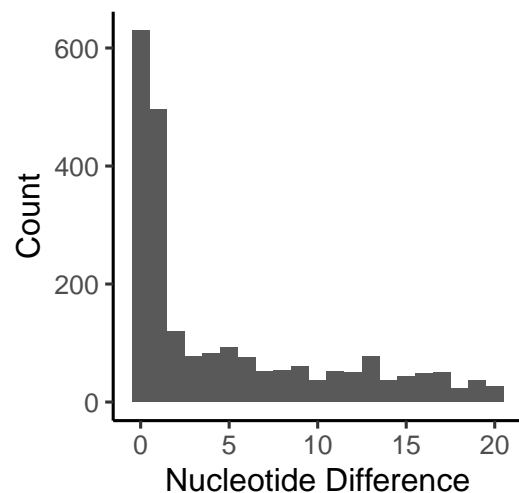
### IGHV3–7\*01

21893 sequences assigned  
1747 (8%) exact matches, in which:  
1148 unique CDR3  
6 unique J



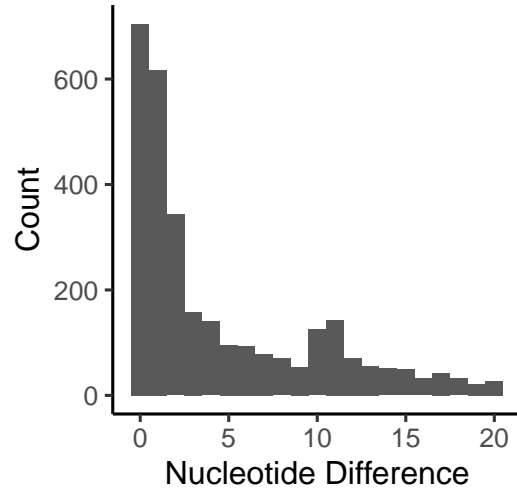
### IGHV3–11\*01

2680 sequences assigned  
630 (23.5%) exact matches, in which:  
419 unique CDR3  
6 unique J



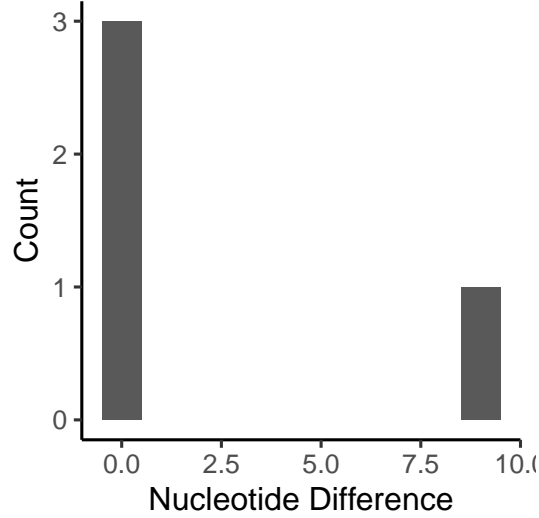
### IGHV3-11\*04

3514 sequences assigned  
705 (20.1%) exact matches, in which:  
515 unique CDR3  
6 unique J



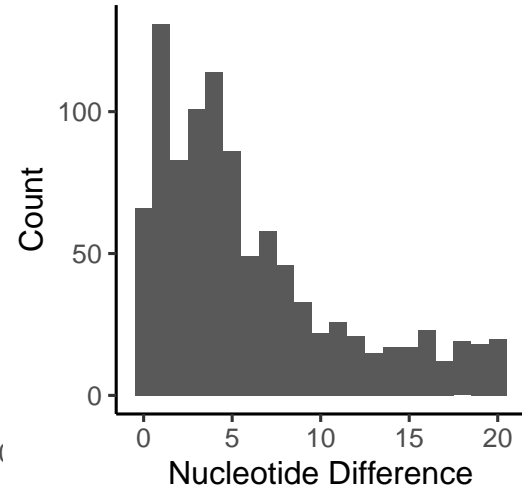
### IGHV3-19\*01

4 sequences assigned  
3 (75%) exact matches, in which:  
3 unique CDR3  
2 unique J



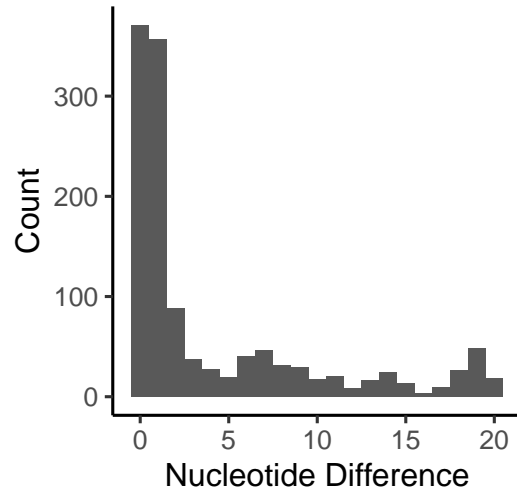
### IGHV3-21\*04

1096 sequences assigned  
66 (6%) exact matches, in which:  
63 unique CDR3  
6 unique J



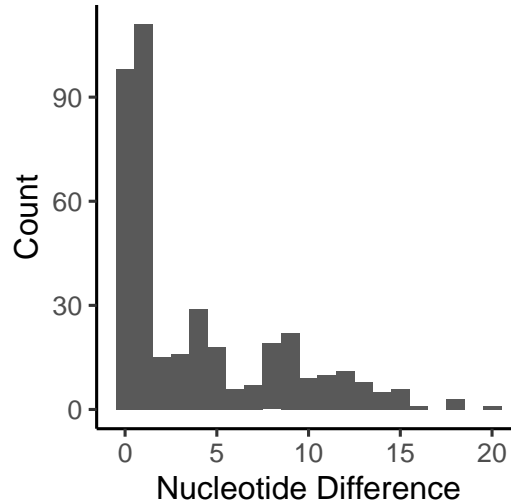
### IGHV3-13\*01

1363 sequences assigned  
371 (27.2%) exact matches, in which:  
233 unique CDR3  
5 unique J



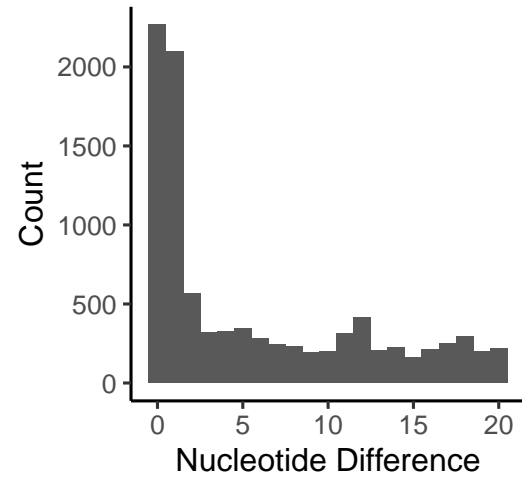
### IGHV3-20\*01\_02

452 sequences assigned  
98 (21.7%) exact matches, in which:  
59 unique CDR3  
5 unique J



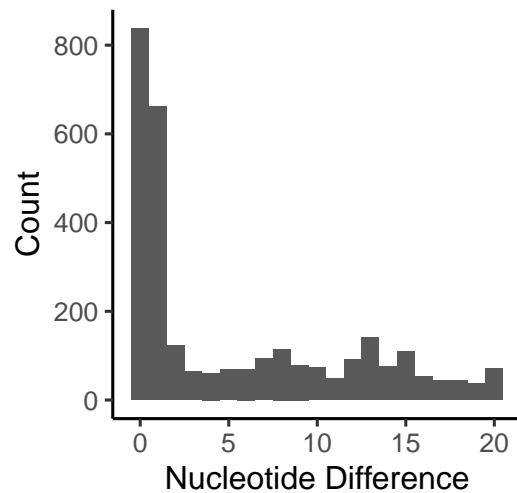
### IGHV3-21\*01\_02

12852 sequences assigned  
2267 (17.6%) exact matches, in which:  
1411 unique CDR3  
6 unique J



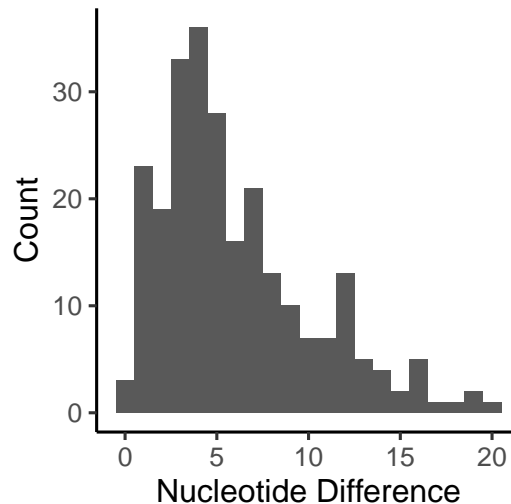
### IGHV3-15\*01\_02

4356 sequences assigned  
838 (19.2%) exact matches, in which:  
483 unique CDR3  
6 unique J



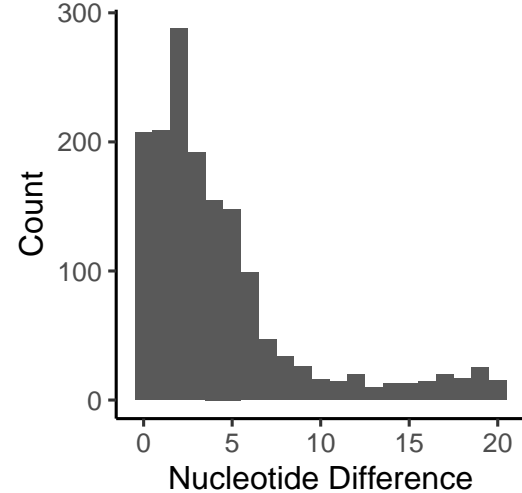
### IGHV3-20\*03\_04

400 sequences assigned  
3 (0.8%) exact matches, in which:  
3 unique CDR3  
2 unique J



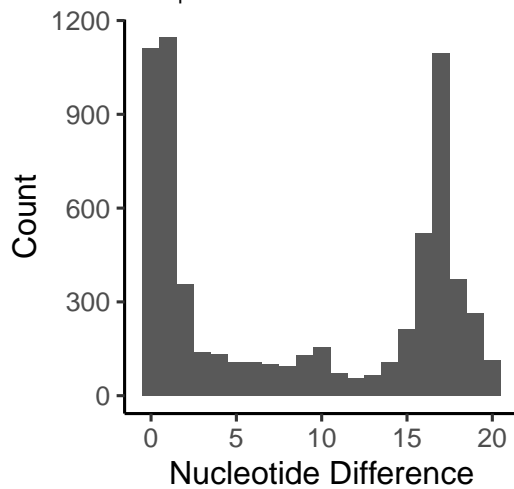
### IGHV3-30\*04\_T288C

1791 sequences assigned  
207 (11.6%) exact matches, in which:  
193 unique CDR3  
6 unique J



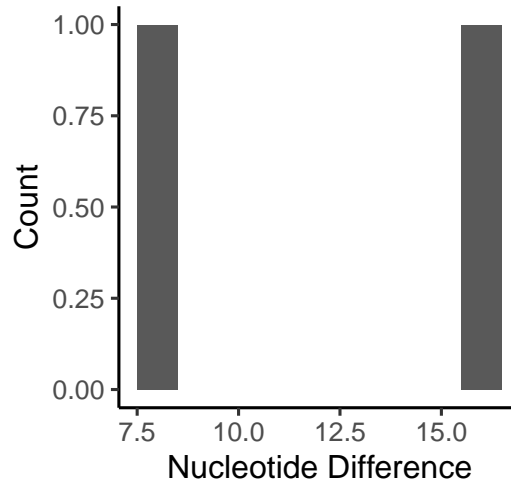
### IGHV3-33\*01

8072 sequences assigned  
1113 (13.8%) exact matches, in which:  
719 unique CDR3  
6 unique J



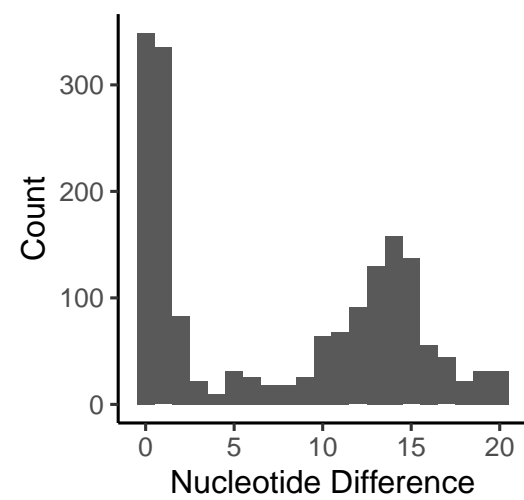
### IGHV3-35\*01

2 sequences assigned  
No exact matches.



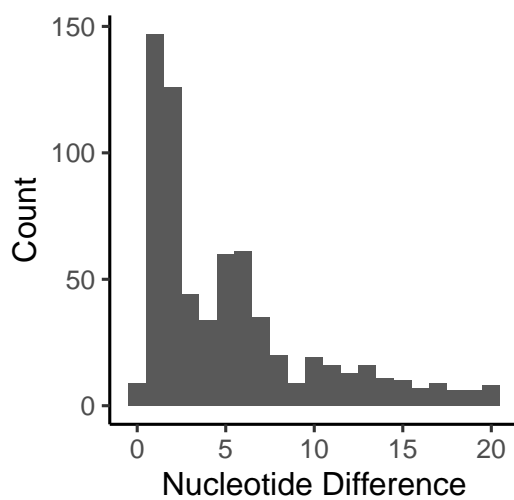
### IGHV3-43\*02

2063 sequences assigned  
349 (16.9%) exact matches, in which:  
212 unique CDR3  
6 unique J



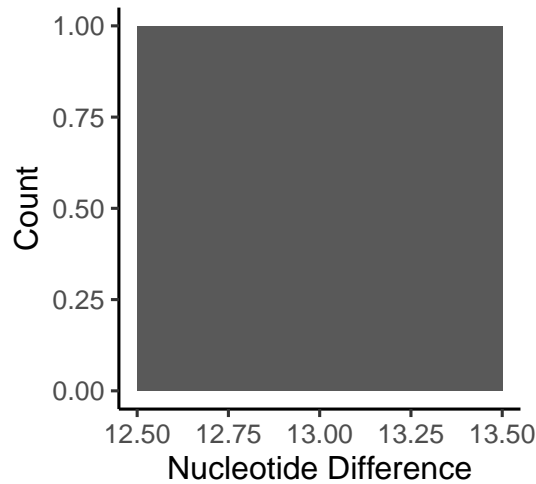
### IGHV3-33\*05

758 sequences assigned  
9 (1.2%) exact matches, in which:  
9 unique CDR3  
3 unique J



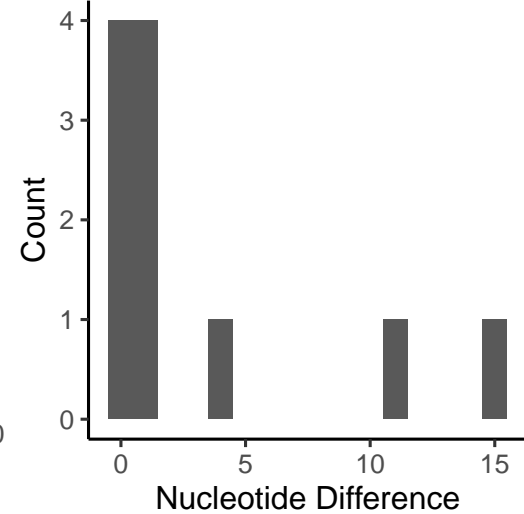
### IGHV3-38\*01

1 sequences assigned  
No exact matches.



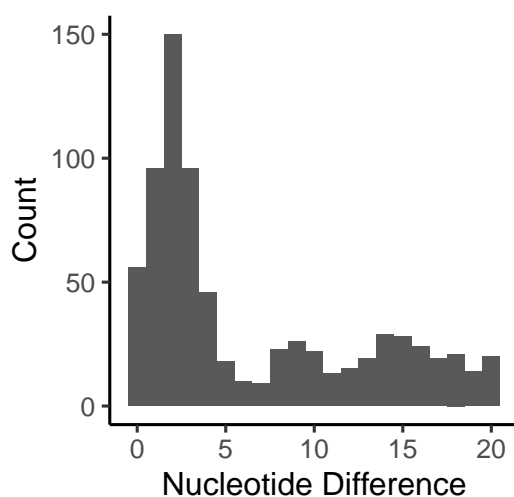
### IGHV3-47\*01

11 sequences assigned  
4 (36.4%) exact matches, in which:  
2 unique CDR3  
2 unique J



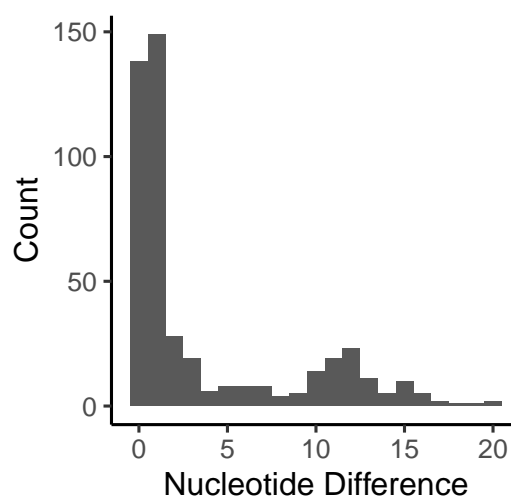
### IGHV3-33\*06

828 sequences assigned  
56 (6.8%) exact matches, in which:  
54 unique CDR3  
5 unique J



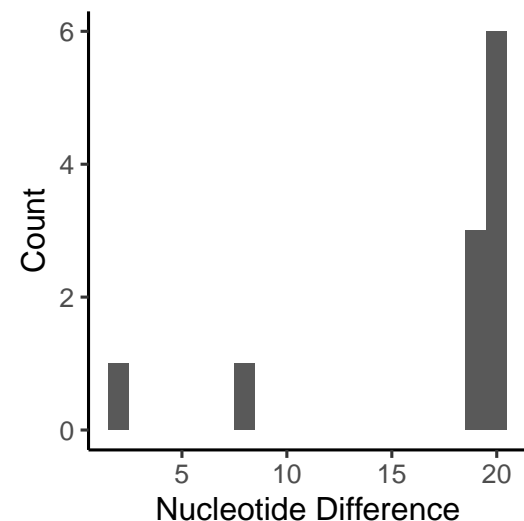
### IGHV3-43\*01

577 sequences assigned  
138 (23.9%) exact matches, in which:  
89 unique CDR3  
6 unique J



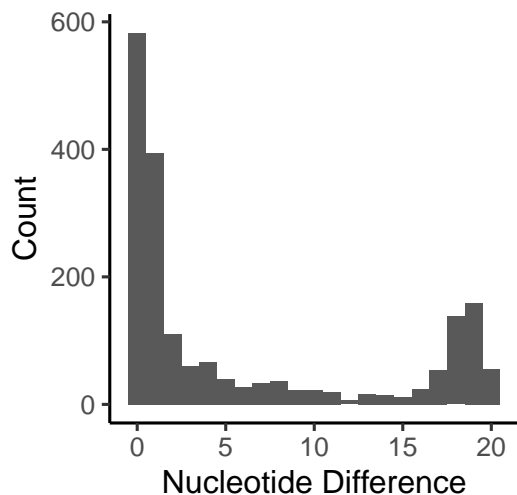
### IGHV3-47\*02

11 sequences assigned  
No exact matches.



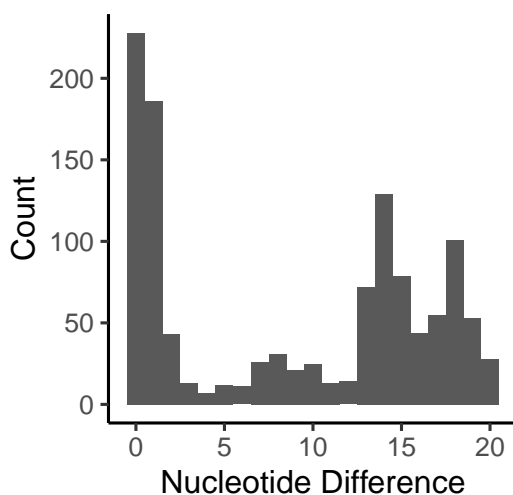
### IGHV3-48\*02

2180 sequences assigned  
583 (26.7%) exact matches, in which:  
363 unique CDR3  
6 unique J



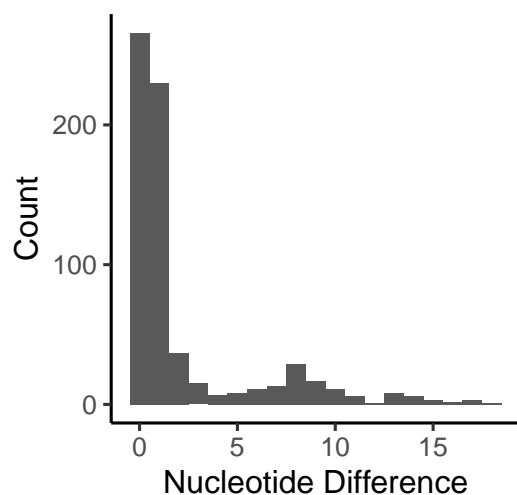
### IGHV3-49\*04

1449 sequences assigned  
228 (15.7%) exact matches, in which:  
133 unique CDR3  
6 unique J



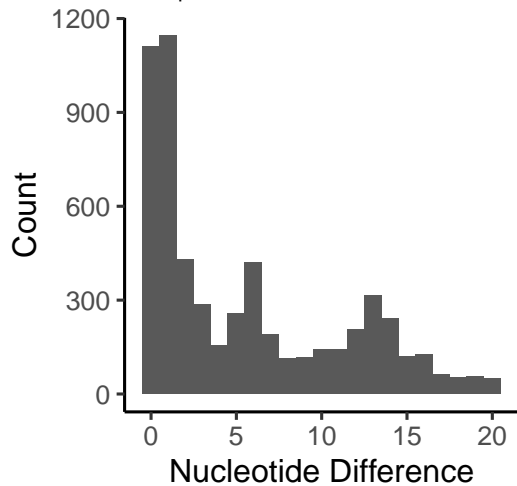
### IGHV3-53\*04

830 sequences assigned  
266 (32%) exact matches, in which:  
171 unique CDR3  
5 unique J



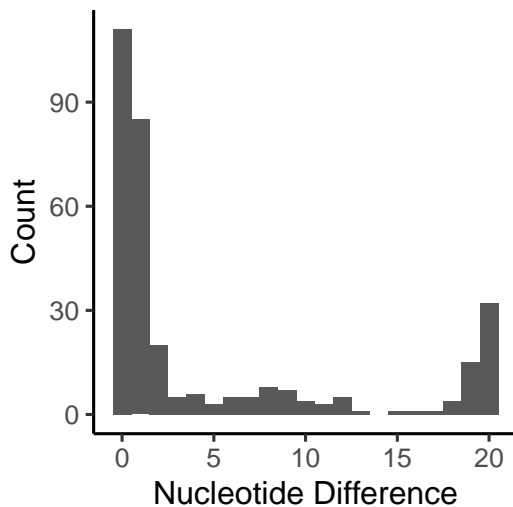
### IGHV3-48\*03

6642 sequences assigned  
1111 (16.7%) exact matches, in which:  
655 unique CDR3  
6 unique J



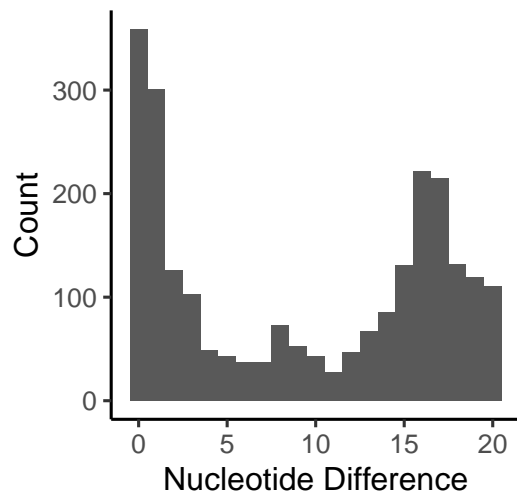
### IGHV3-49\*03\_05

352 sequences assigned  
111 (31.5%) exact matches, in which:  
66 unique CDR3  
5 unique J



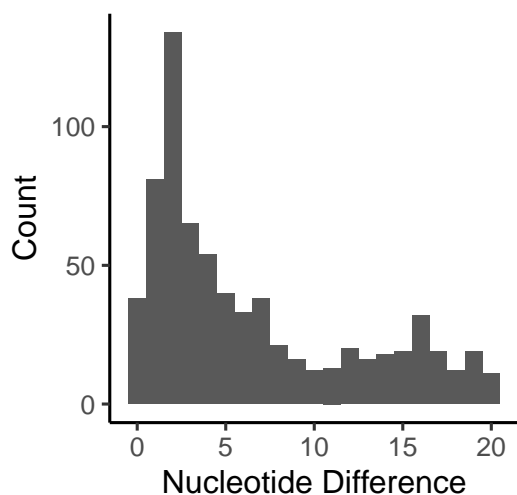
### IGHV3-53\*01\_02

4565 sequences assigned  
359 (7.9%) exact matches, in which:  
240 unique CDR3  
6 unique J



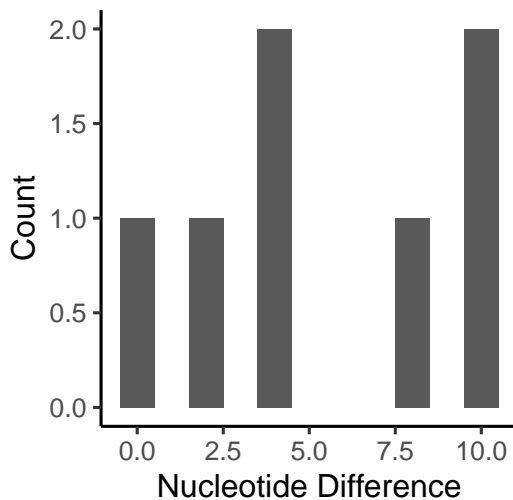
### IGHV3-48\*04

797 sequences assigned  
38 (4.8%) exact matches, in which:  
38 unique CDR3  
4 unique J



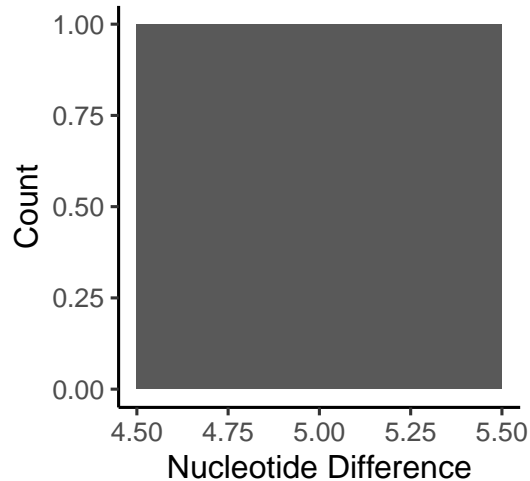
### IGHV3-52\*01\_03

7 sequences assigned  
1 (14.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



### IGHV3-62\*03

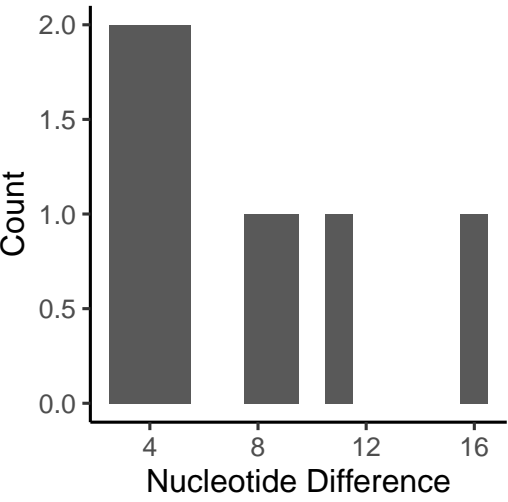
1 sequences assigned  
No exact matches.





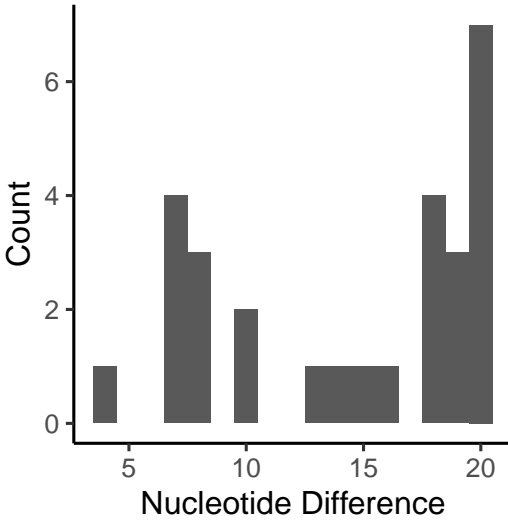
IGHV3-64\*04

13 sequences assigned  
No exact matches.



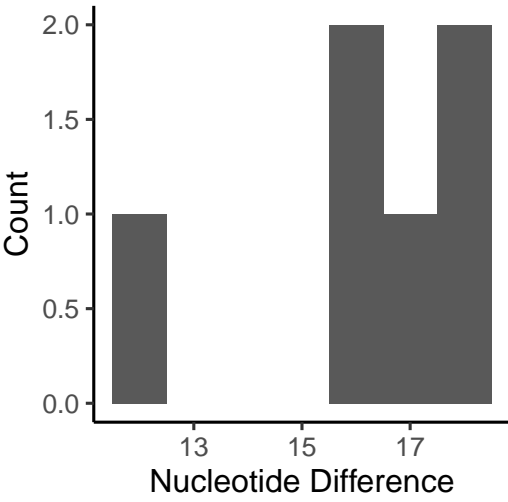
IGHV3-66\*02

167 sequences assigned  
No exact matches.



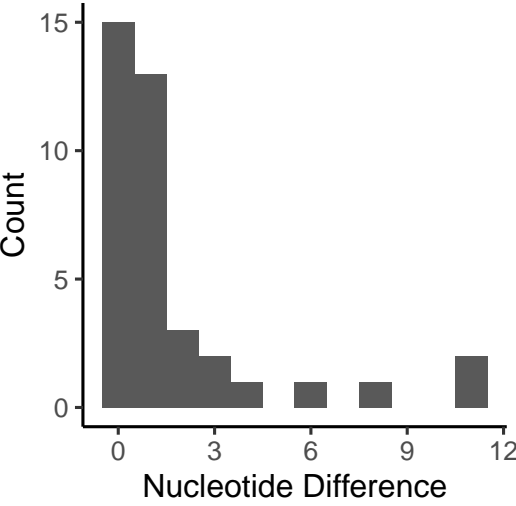
IGHV3-69-1\*02

20 sequences assigned  
No exact matches.



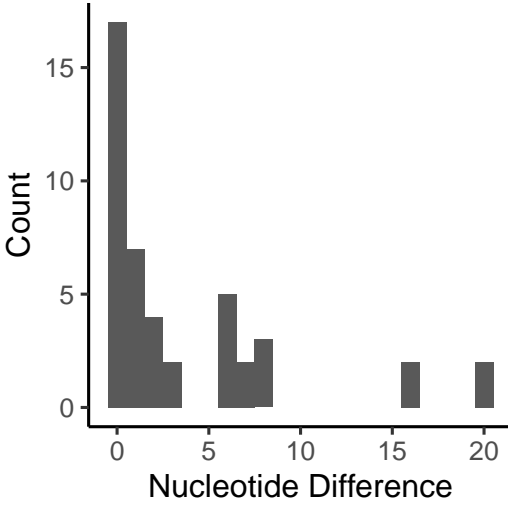
IGHV3-64\*02\_07

39 sequences assigned  
15 (38.5%) exact matches, in which:  
12 unique CDR3  
2 unique J



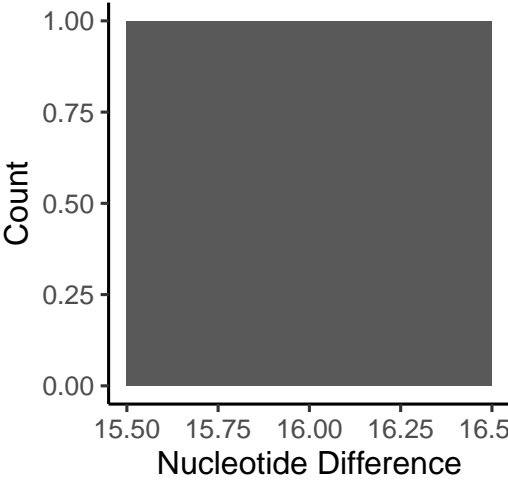
IGHV3-66\*03

47 sequences assigned  
17 (36.2%) exact matches, in which:  
16 unique CDR3  
3 unique J



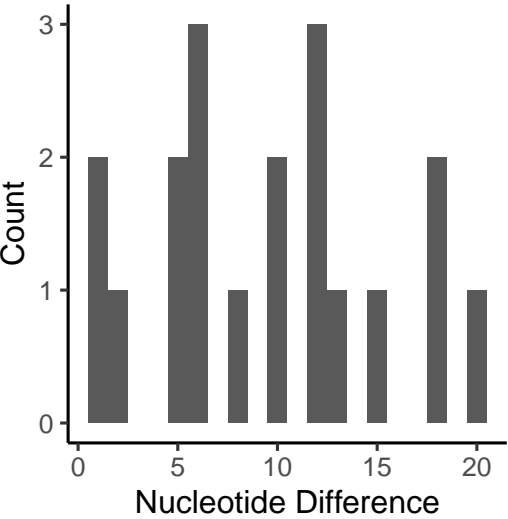
IGHV3-71\*01\_04

2 sequences assigned  
No exact matches.



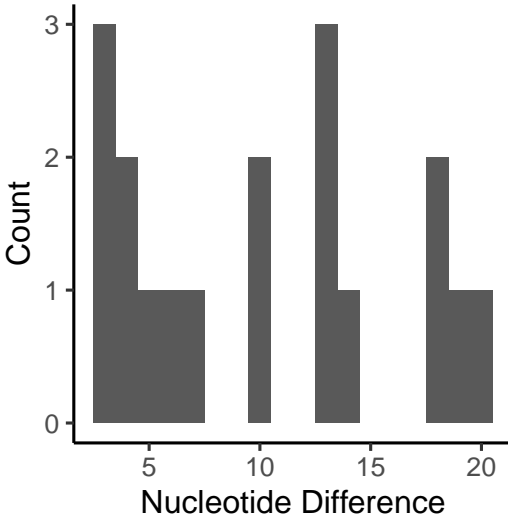
IGHV3-66\*01

33 sequences assigned  
No exact matches.



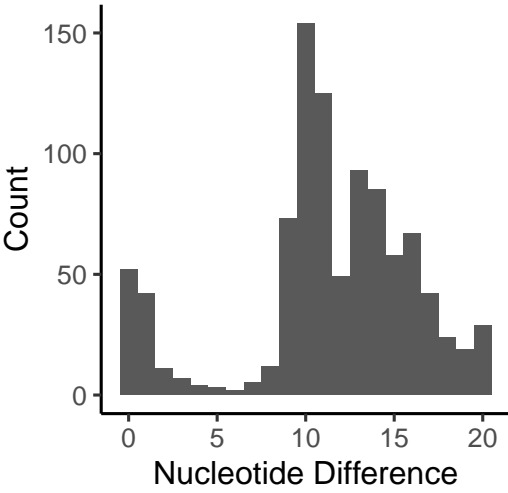
IGHV3-69-1\*01

40 sequences assigned  
No exact matches.



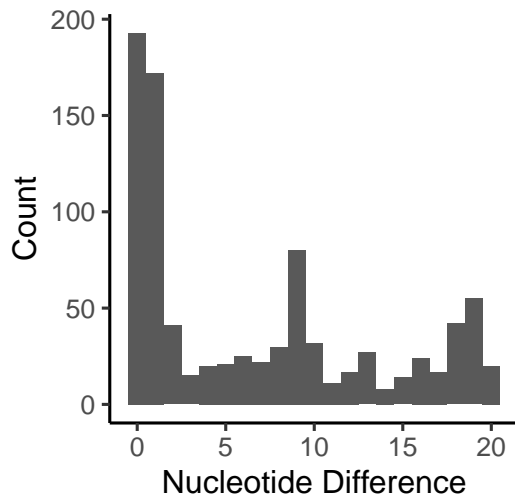
IGHV3-72\*01

1488 sequences assigned  
52 (3.5%) exact matches, in which:  
30 unique CDR3  
5 unique J



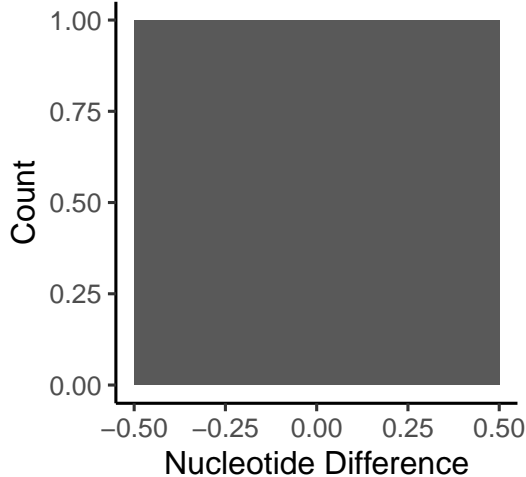
### IGHV3-73\*01\_02

1365 sequences assigned  
193 (14.1%) exact matches, in which:  
121 unique CDR3  
6 unique J



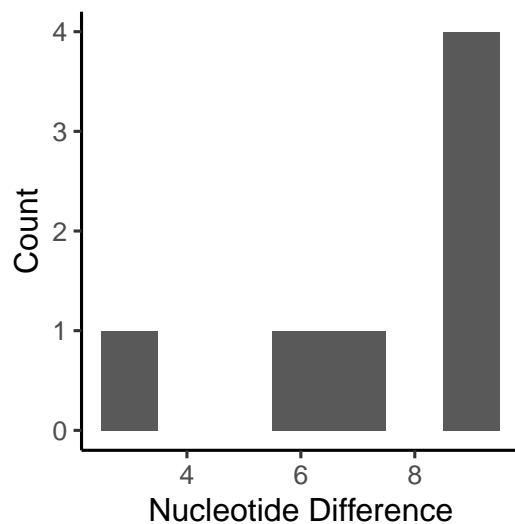
### IGHV3-64D\*06

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



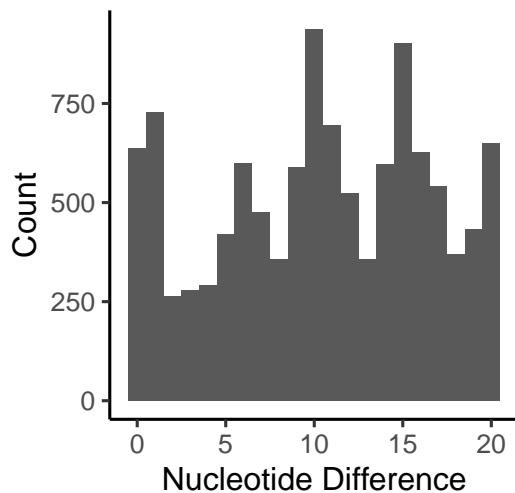
### IGHV4-28\*02\_05

7 sequences assigned  
No exact matches.



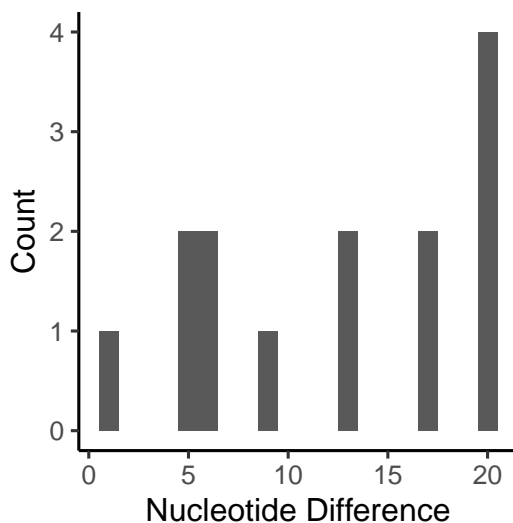
### IGHV3-74\*01\_02

15210 sequences assigned  
637 (4.2%) exact matches, in which:  
429 unique CDR3  
6 unique J



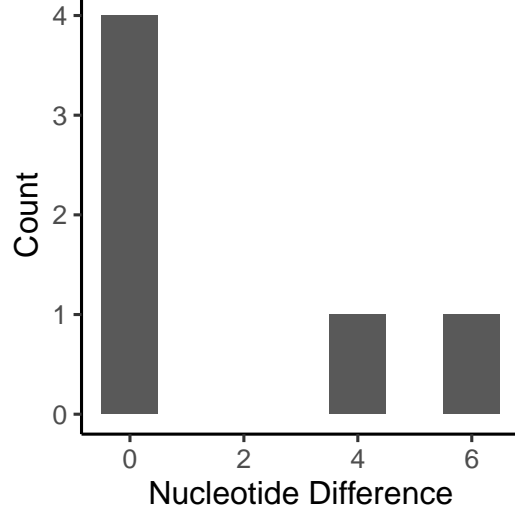
### IGHV3-NL1\*01

45 sequences assigned  
No exact matches.



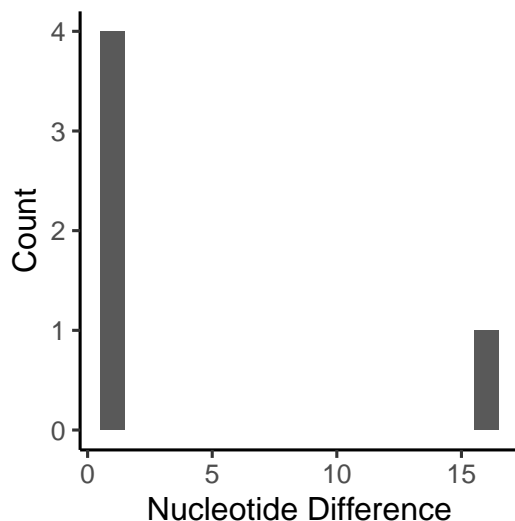
### IGHV4-30-4\*01

8 sequences assigned  
4 (50%) exact matches, in which:  
4 unique CDR3  
3 unique J



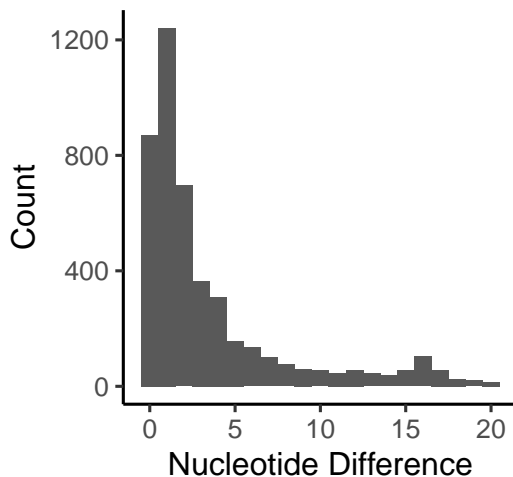
### IGHV3-43D\*04

5 sequences assigned  
No exact matches.



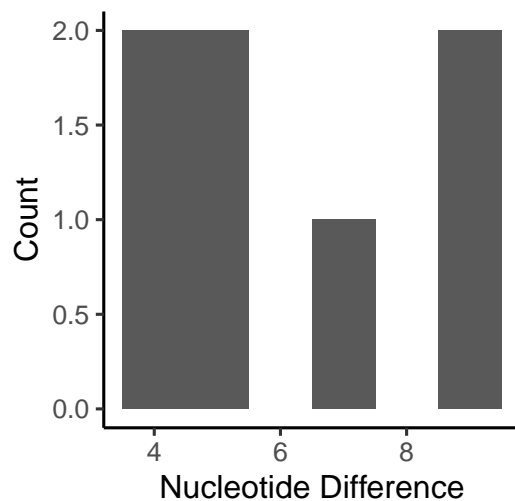
### IGHV4-4\*07

5387 sequences assigned  
870 (16.1%) exact matches, in which:  
674 unique CDR3  
6 unique J



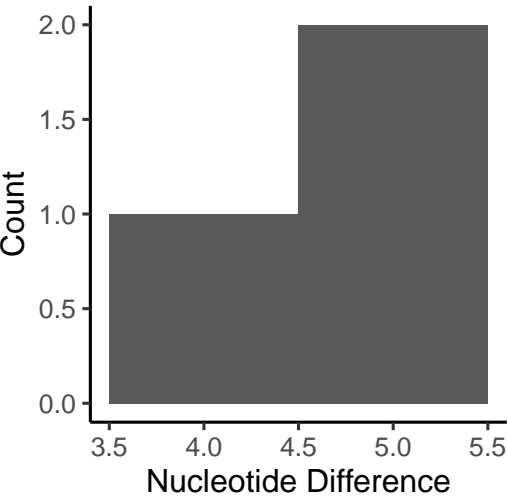
### IGHV4-30-2\*03

12 sequences assigned  
No exact matches.



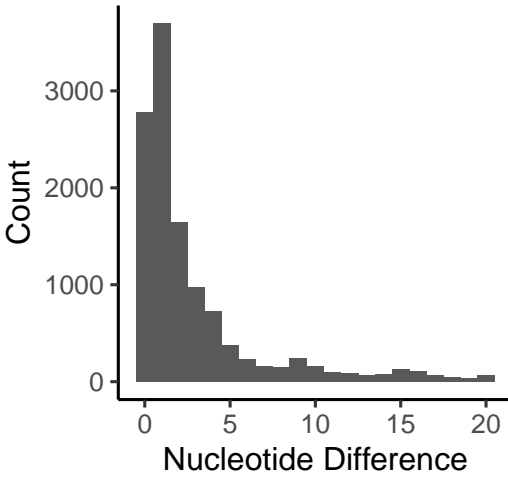
IGHV4-30-2\*04

3 sequences assigned  
No exact matches.



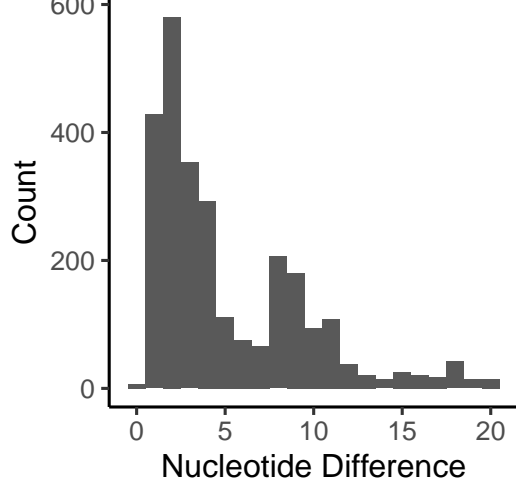
IGHV4-34\*01\_02

13192 sequences assigned  
2776 (21%) exact matches, in which:  
1964 unique CDR3  
6 unique J



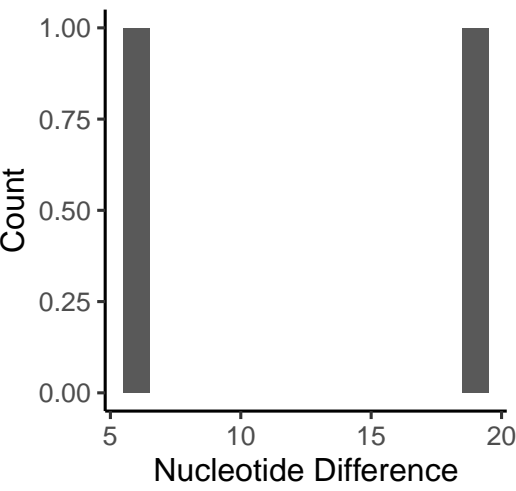
IGHV4-39\*07

2977 sequences assigned  
7 (0.2%) exact matches, in which:  
7 unique CDR3  
5 unique J



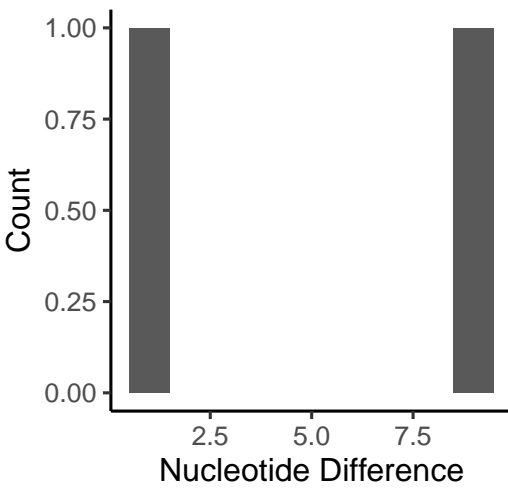
IGHV4-30-4\*08

3 sequences assigned  
No exact matches.



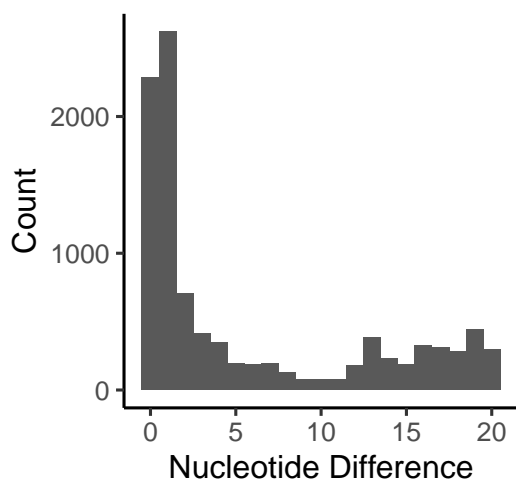
IGHV4-38-2\*01

3 sequences assigned  
No exact matches.



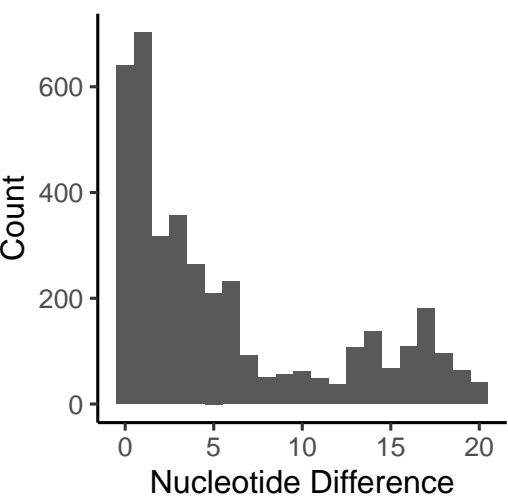
IGHV4-39\*01\_05

12720 sequences assigned  
2287 (18%) exact matches, in which:  
1654 unique CDR3  
6 unique J



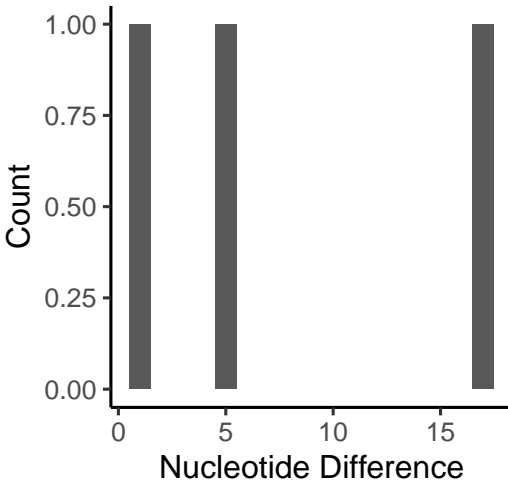
IGHV4-31\*03\_04

4904 sequences assigned  
640 (13.1%) exact matches, in which:  
527 unique CDR3  
6 unique J



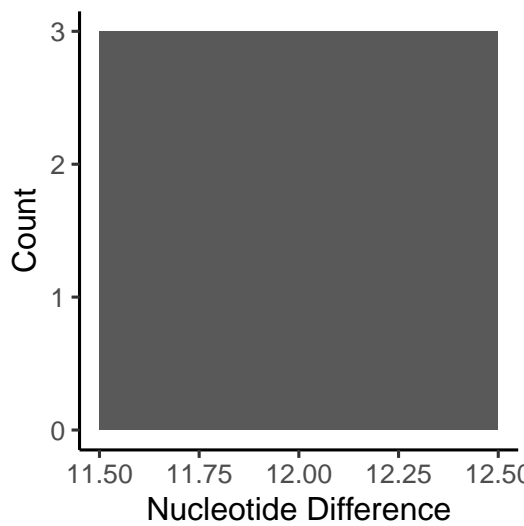
IGHV4-38-2\*02

3 sequences assigned  
No exact matches.



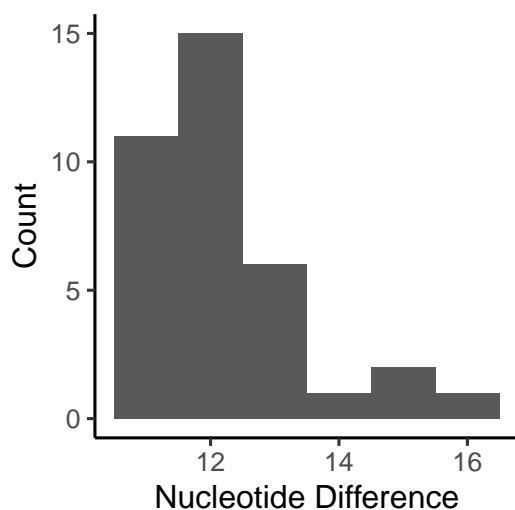
IGHV4-55\*01\_05

3 sequences assigned  
No exact matches.



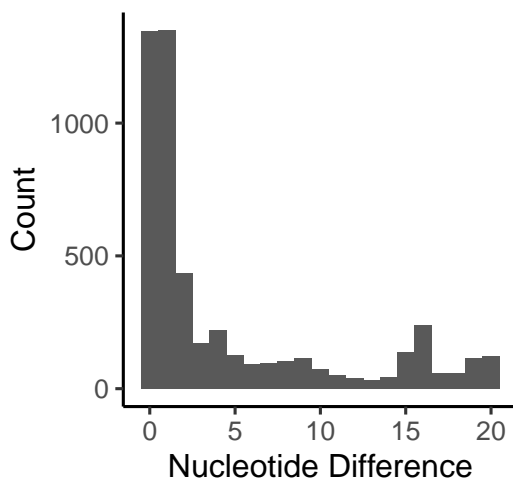
### IGHV4-55\*02\_04\_08

37 sequences assigned  
No exact matches.



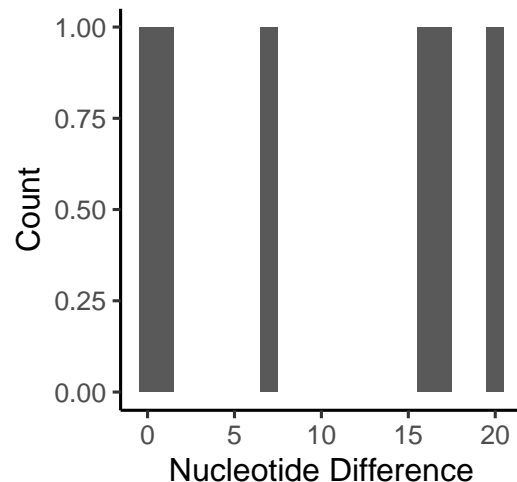
### IGHV4-59\*13

6654 sequences assigned  
1345 (20.2%) exact matches, in which:  
1135 unique CDR3  
6 unique J



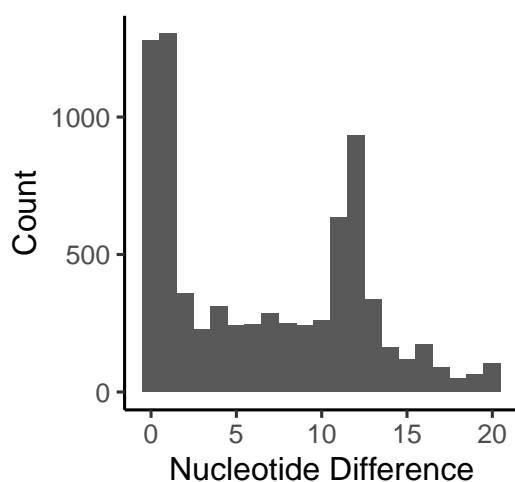
### IGHV5-10-1\*01\_03

6 sequences assigned  
1 (16.7%) exact matches, in which:  
1 unique CDR3  
1 unique J



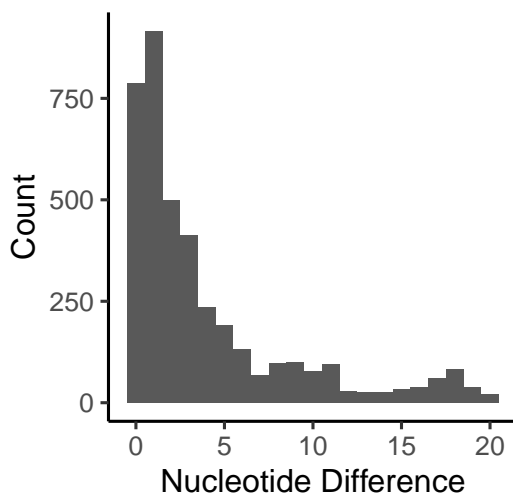
### IGHV4-59\*01\_07

8143 sequences assigned  
1280 (15.7%) exact matches, in which:  
1069 unique CDR3  
6 unique J



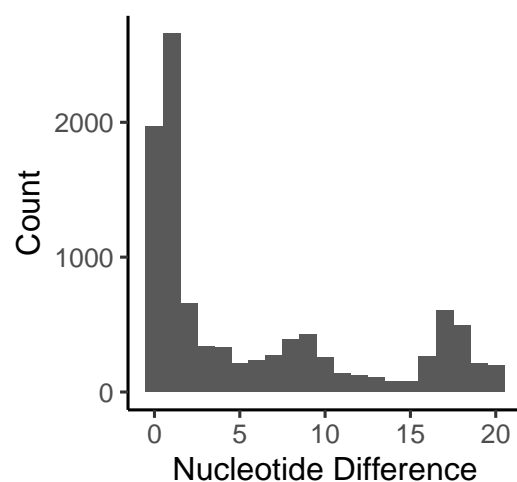
### IGHV4-61\*01

4573 sequences assigned  
788 (17.2%) exact matches, in which:  
677 unique CDR3  
6 unique J



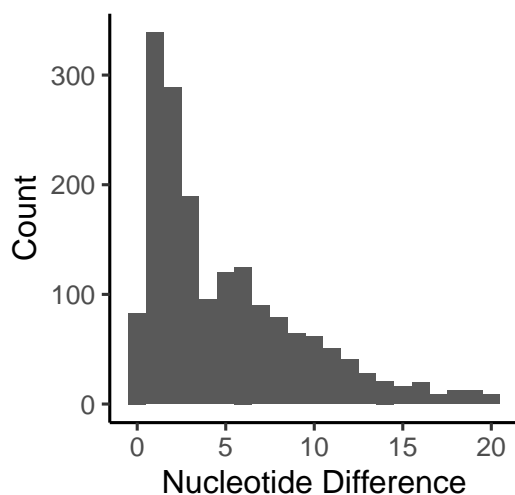
### IGHV5-51\*01\_03

11282 sequences assigned  
1967 (17.4%) exact matches, in which:  
1045 unique CDR3  
6 unique J



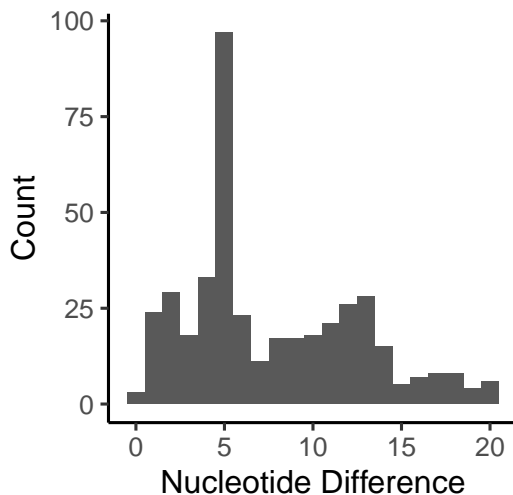
### IGHV4-59\*12

1935 sequences assigned  
83 (4.3%) exact matches, in which:  
82 unique CDR3  
6 unique J



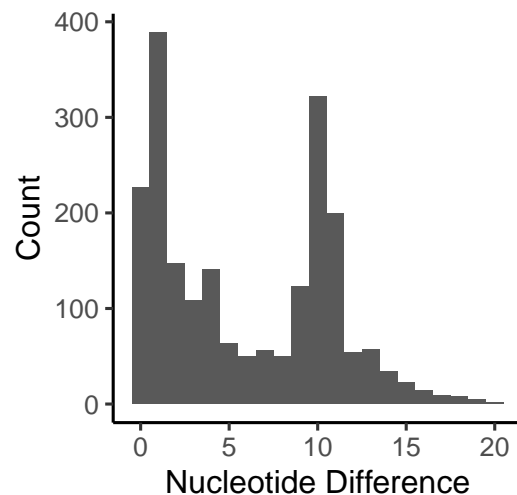
### IGHV4-61\*08

1068 sequences assigned  
3 (0.3%) exact matches, in which:  
3 unique CDR3  
2 unique J



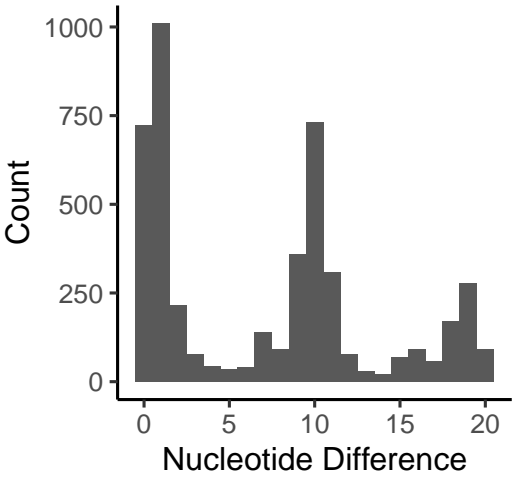
### IGHV6-1\*01\_02

2237 sequences assigned  
227 (10.1%) exact matches, in which:  
184 unique CDR3  
5 unique J



# IGHV7-4-1\*02

5181 sequences assigned  
724 (14%) exact matches, in which:  
586 unique CDR3  
6 unique J





Novel sequence(s)IGHV3-30\*03\_T288CIGHV4-59\*02\_G88AIGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning - no inferred sequences found.

Warning - no inferred sequences found.

Warning - no inferred sequences found.

Novel sequence(s)IGHV1-69\*04\_09\_G112AIGHV4-59\*02\_G88AIGHV5-10-1\*01\_03\_T258CIGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning - no inferred sequences found.

Novel sequence(s)IGHV1-69\*08\_C191TIGHV3-48\*03\_T303GIGHV4-59\*02\_G88AIGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning - no inferred sequences found.

Warning - no inferred sequences found.

Novel sequence(s)IGHV3-30\*03\_T288CIGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning: IGHV4-31\*02, IGHV4-31\*03\_04 have identical germline sequences.

Novel sequence(s)IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV1-69\*04\_09\_G112A are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning - no inferred sequences found.

Novel sequence(s)IGHV1-69\*08\_C191TIGHV3-30\*03\_T288CIGHV3-30-3\*02\_G75CIGHV4-59\*02\_G88AIGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV4-59\*02\_G88AIGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV4-4\*02\_03\_C300TIGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning - no inferred sequences found.

Novel sequence(s)IGHV4-59\*02\_G88A are not listed in the genotype and will be ignored.