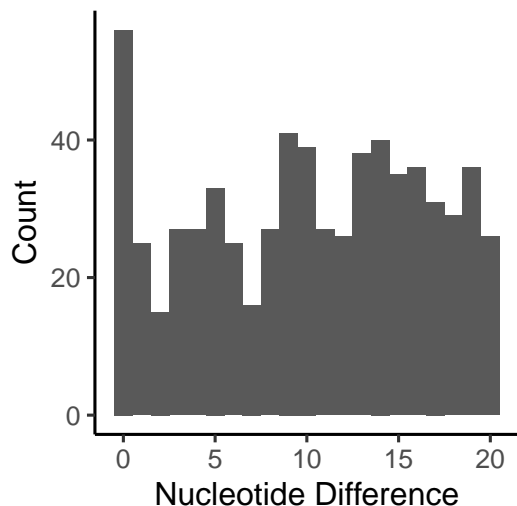


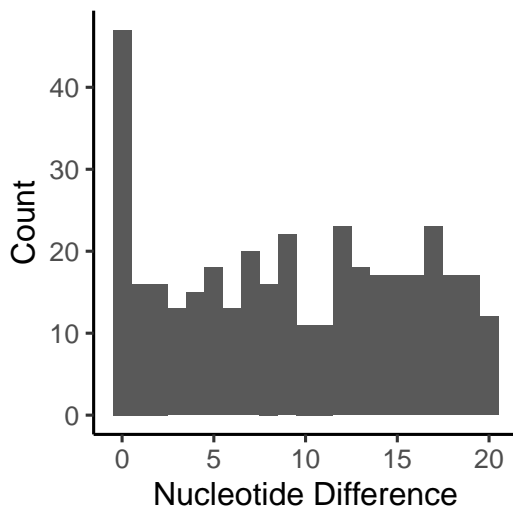
IGHV1-2*02

850 sequences assigned
56 (6.6%) exact matches, in which:
56 unique CDR3
6 unique J



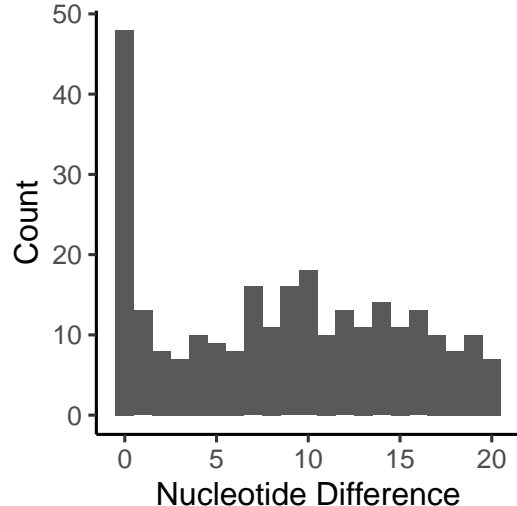
IGHV1-8*01

429 sequences assigned
47 (11%) exact matches, in which:
44 unique CDR3
4 unique J



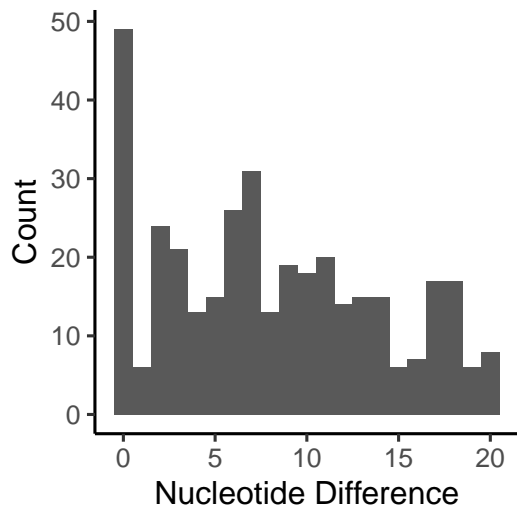
IGHV1-46*01

362 sequences assigned
48 (13.3%) exact matches, in which:
47 unique CDR3
5 unique J



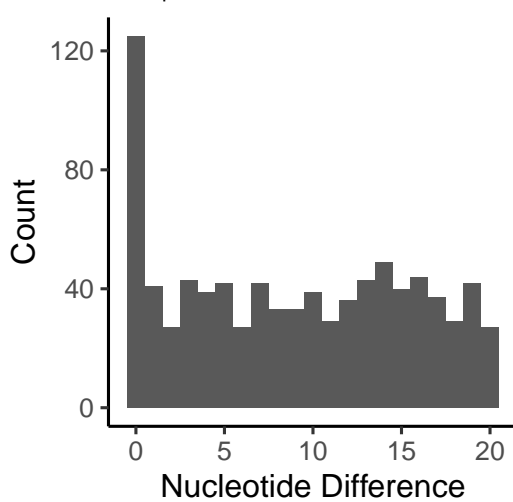
IGHV1-2*06

441 sequences assigned
49 (11.1%) exact matches, in which:
43 unique CDR3
5 unique J



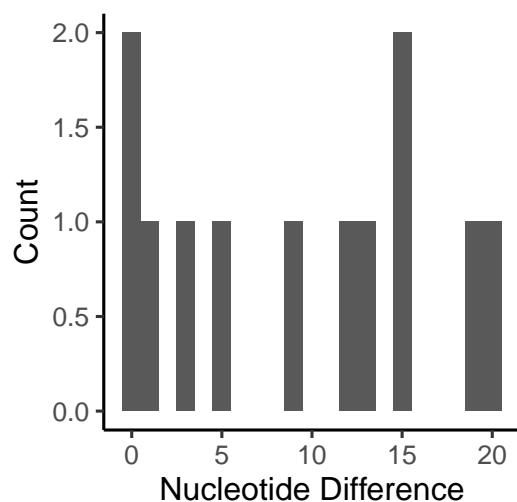
IGHV1-18*01

1091 sequences assigned
125 (11.5%) exact matches, in which:
113 unique CDR3
4 unique J



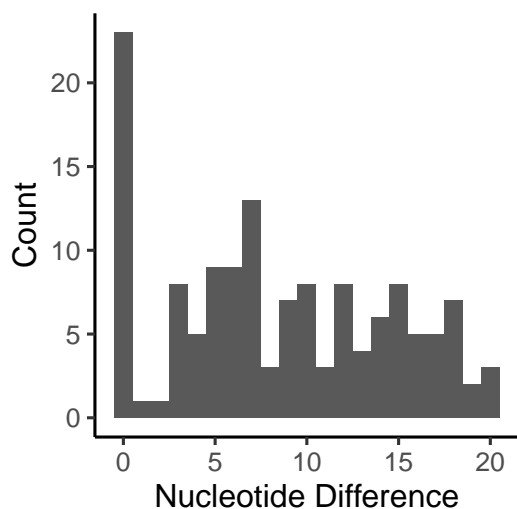
IGHV1-58*02

17 sequences assigned
2 (11.8%) exact matches, in which:
2 unique CDR3
1 unique J



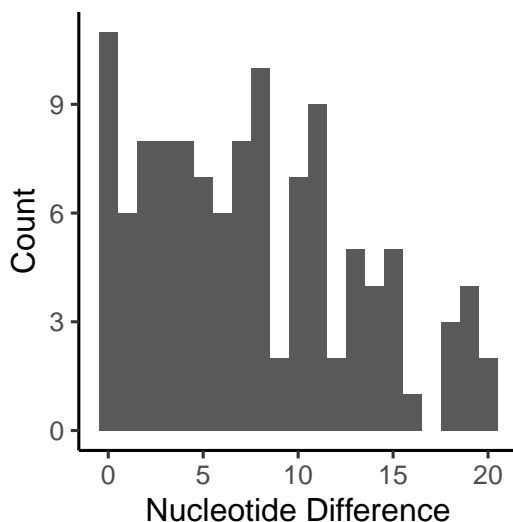
IGHV1-3*01_05

154 sequences assigned
23 (14.9%) exact matches, in which:
23 unique CDR3
5 unique J



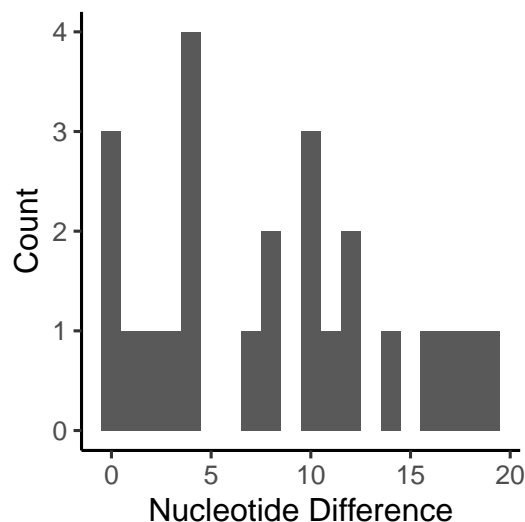
IGHV1-24*01

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



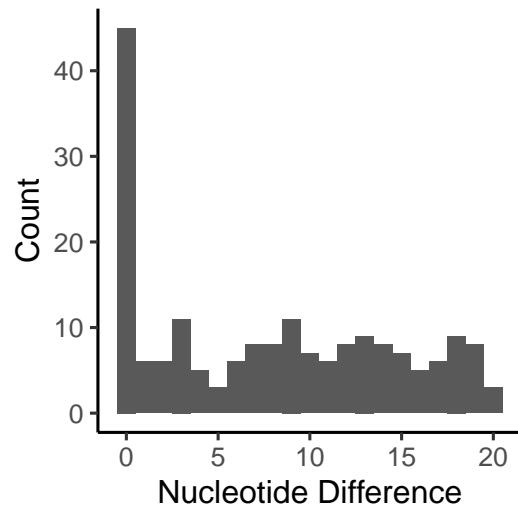
IGHV1-58*01_03

24 sequences assigned
3 (12.5%) exact matches, in which:
3 unique CDR3
2 unique J



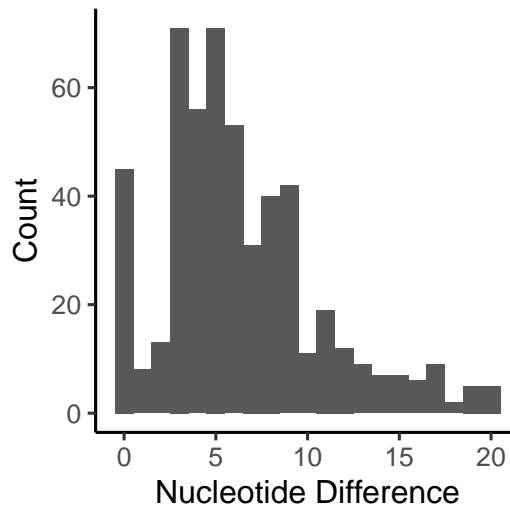
IGHV1-69*01_12_13

275 sequences assigned
45 (16.4%) exact matches, in which:
44 unique CDR3
4 unique J



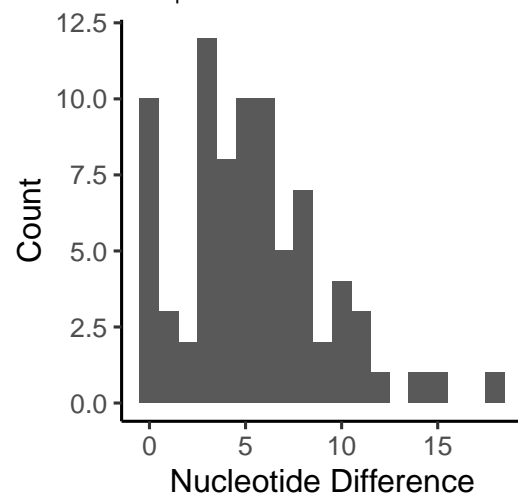
IGHV2-5*02

546 sequences assigned
45 (8.2%) exact matches, in which:
42 unique CDR3
5 unique J



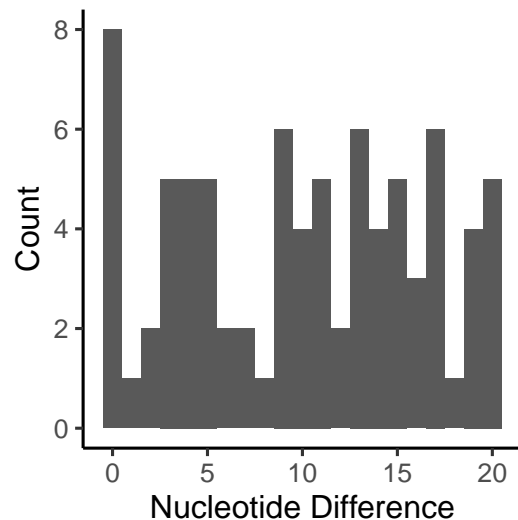
IGHV2-70*11_15

81 sequences assigned
10 (12.3%) exact matches, in which:
9 unique CDR3
2 unique J



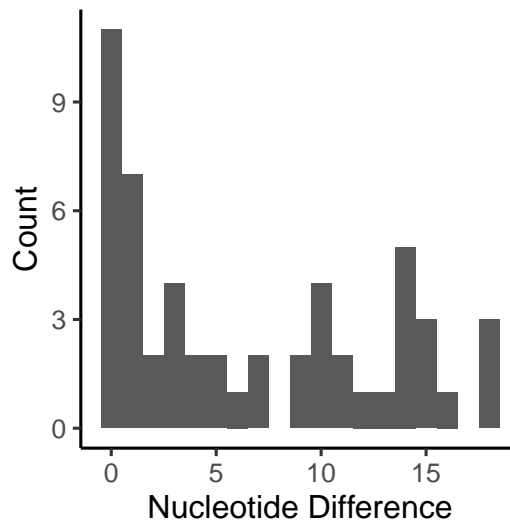
IGHV1-69*04_09

134 sequences assigned
8 (6%) exact matches, in which:
7 unique CDR3
2 unique J



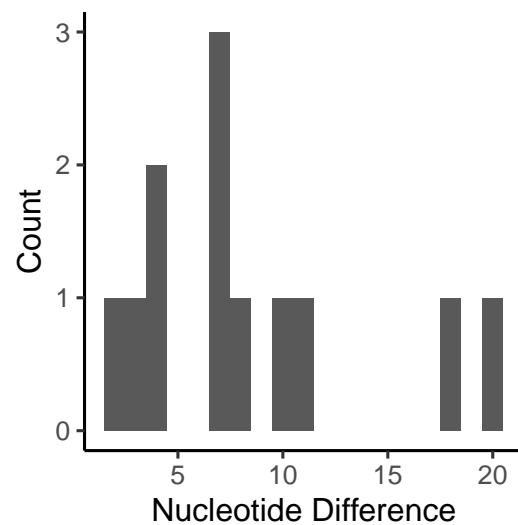
IGHV2-26*01

62 sequences assigned
11 (17.7%) exact matches, in which:
10 unique CDR3
3 unique J



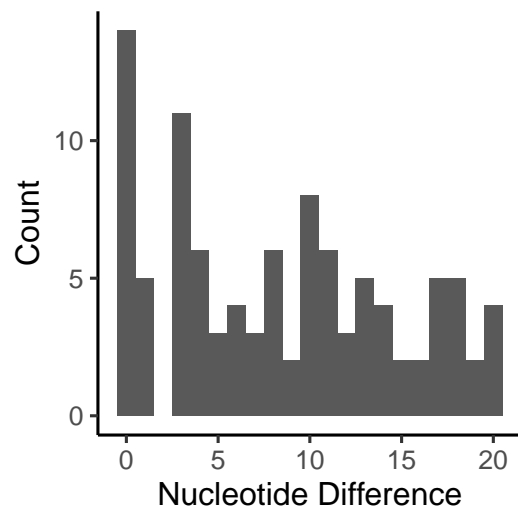
IGHV2-70*16_17

16 sequences assigned
No exact matches.



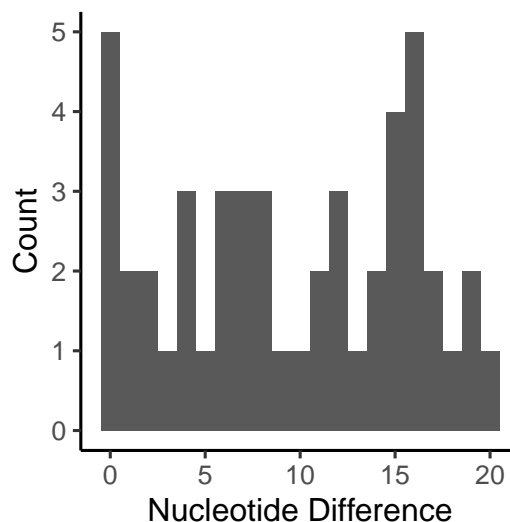
IGHV2-5*01

110 sequences assigned
14 (12.7%) exact matches, in which:
13 unique CDR3
3 unique J



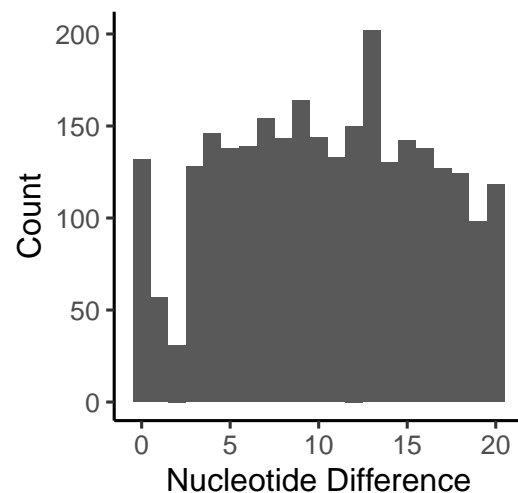
IGHV2-70*01

54 sequences assigned
5 (9.3%) exact matches, in which:
5 unique CDR3
2 unique J



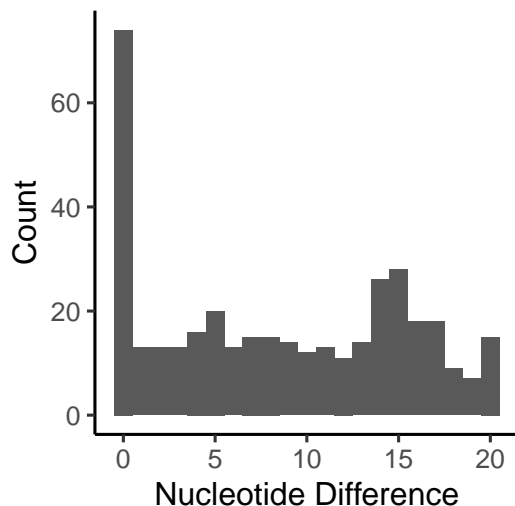
IGHV3-7*01

3130 sequences assigned
132 (4.2%) exact matches, in which:
70 unique CDR3
5 unique J



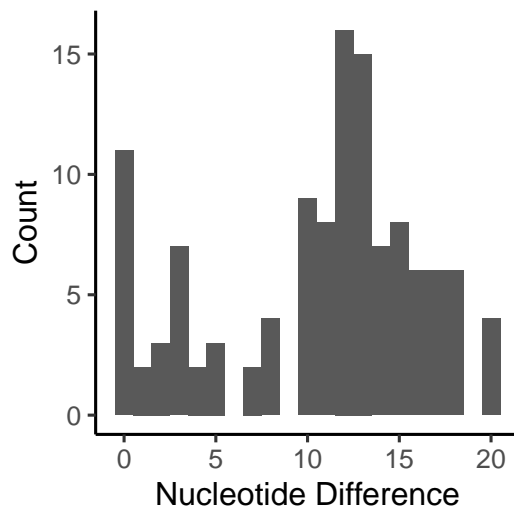
IGHV3-9*01

458 sequences assigned
74 (16.2%) exact matches, in which:
54 unique CDR3
5 unique J



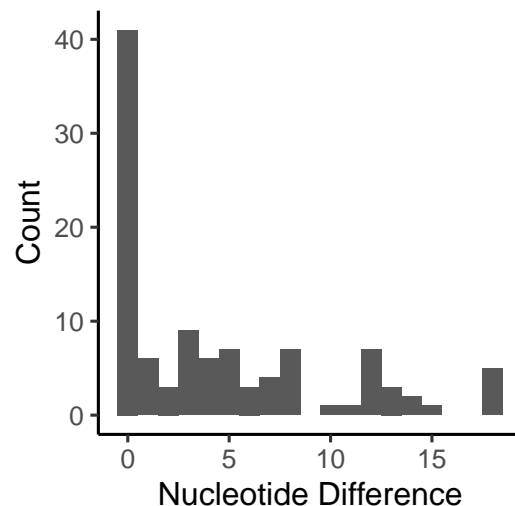
IGHV3-13*01

125 sequences assigned
11 (8.8%) exact matches, in which:
5 unique CDR3
4 unique J



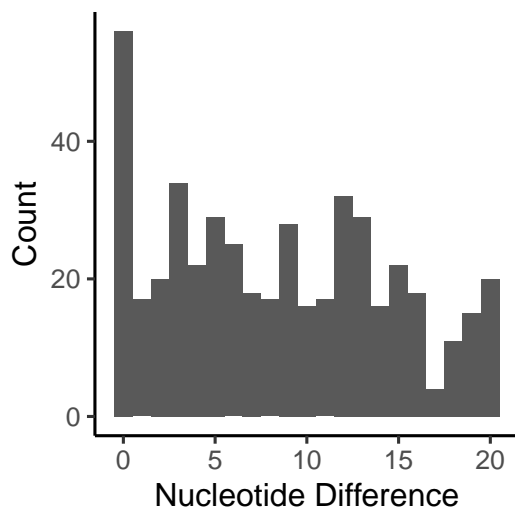
IGHV3-20*01_02

112 sequences assigned
41 (36.6%) exact matches, in which:
19 unique CDR3
5 unique J



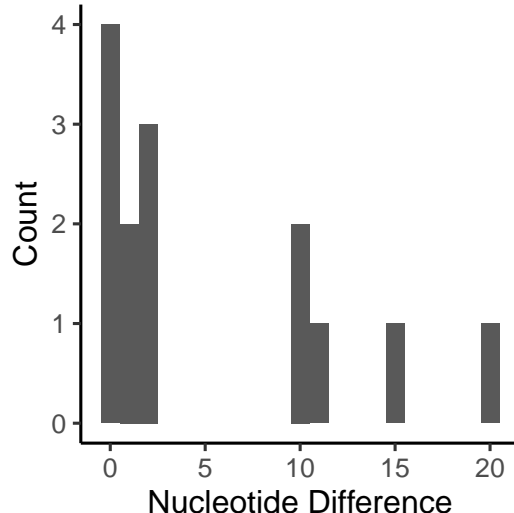
IGHV3-11*01

542 sequences assigned
56 (10.3%) exact matches, in which:
34 unique CDR3
4 unique J



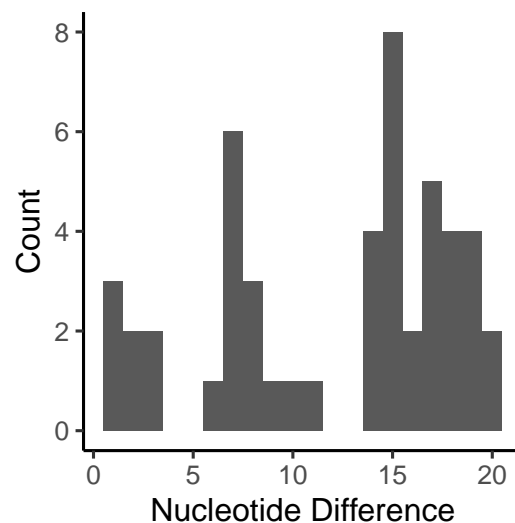
IGHV3-13*05

16 sequences assigned
4 (25%) exact matches, in which:
2 unique CDR3
2 unique J



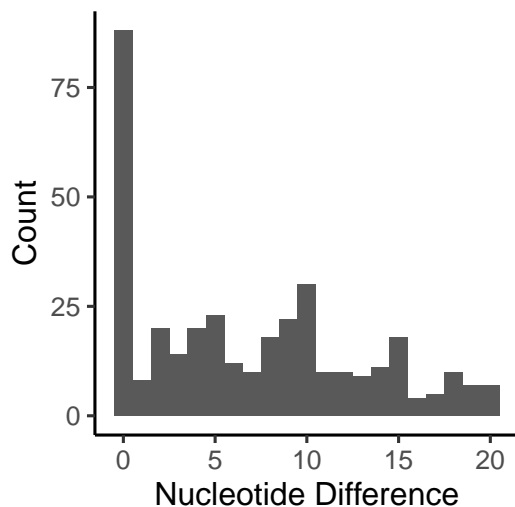
IGHV3-20*03_04

78 sequences assigned
No exact matches.



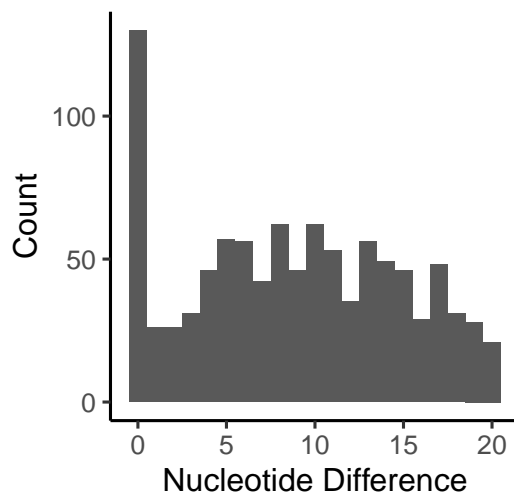
IGHV3-11*06

425 sequences assigned
88 (20.7%) exact matches, in which:
51 unique CDR3
6 unique J



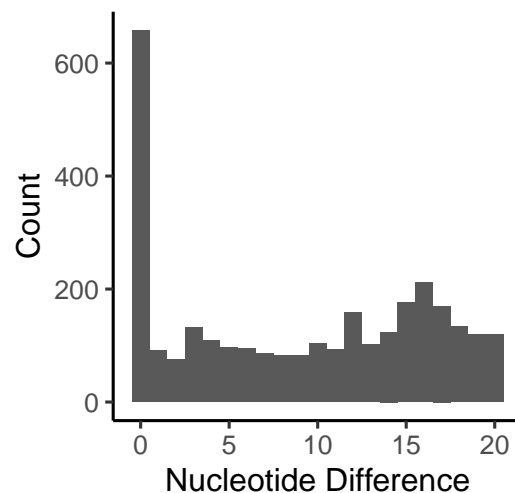
IGHV3-15*01_02

1201 sequences assigned
130 (10.8%) exact matches, in which:
85 unique CDR3
6 unique J



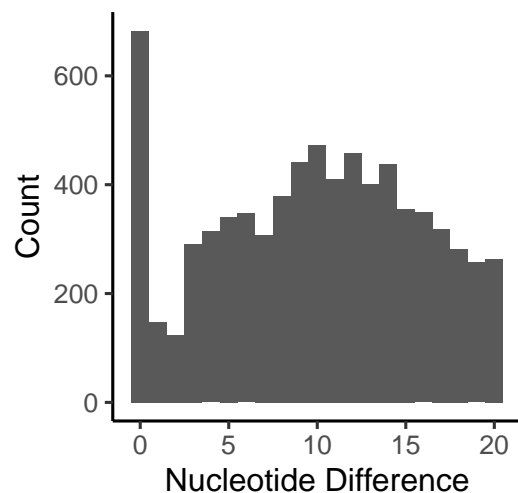
IGHV3-21*01_02

3769 sequences assigned
658 (17.5%) exact matches, in which:
310 unique CDR3
6 unique J



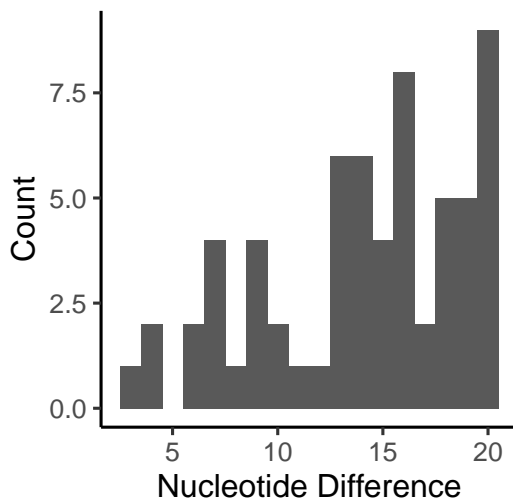
IGHV3-23*01_04

9843 sequences assigned
683 (6.9%) exact matches, in which:
366 unique CDR3
6 unique J



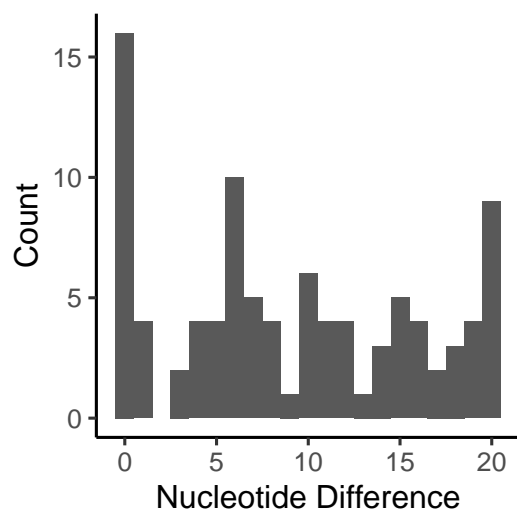
IGHV3-30*04

139 sequences assigned
No exact matches.



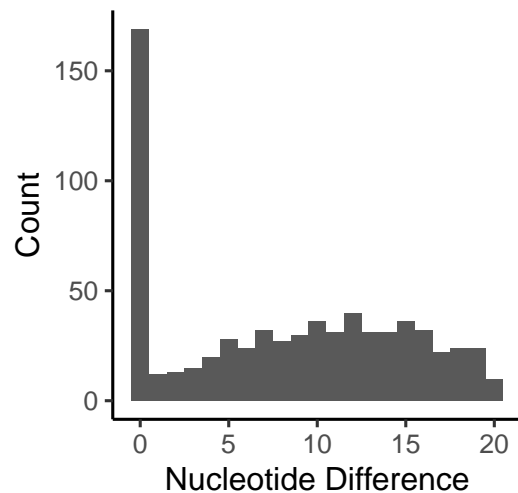
IGHV3-43*01

109 sequences assigned
16 (14.7%) exact matches, in which:
8 unique CDR3
4 unique J



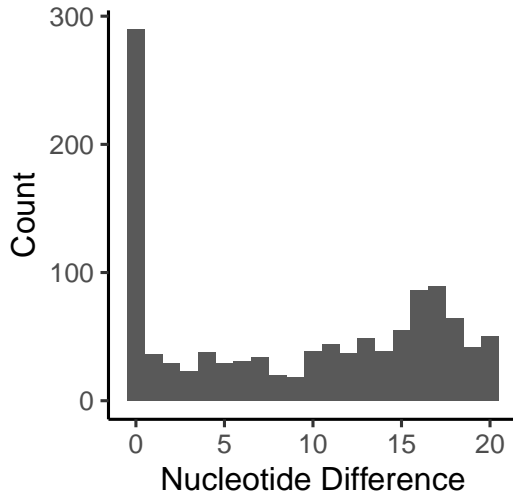
IGHV3-30-3*01

859 sequences assigned
169 (19.7%) exact matches, in which:
117 unique CDR3
6 unique J



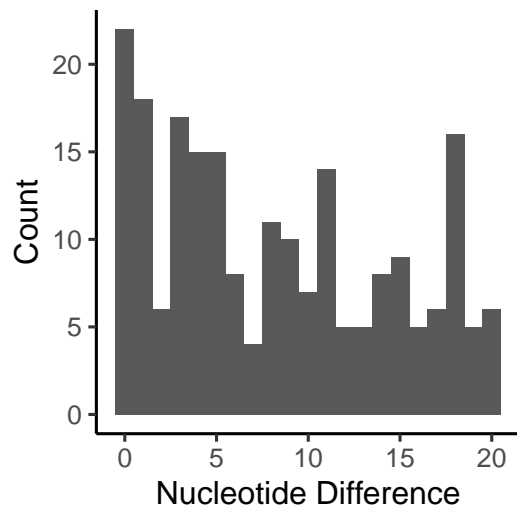
IGHV3-30*18

1304 sequences assigned
290 (22.2%) exact matches, in which:
170 unique CDR3
6 unique J



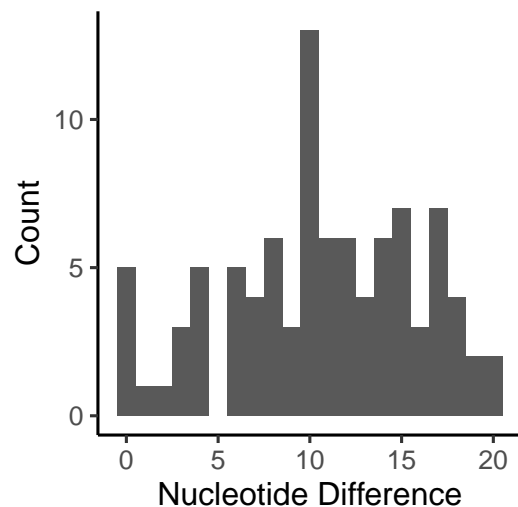
IGHV3-43*02

285 sequences assigned
22 (7.7%) exact matches, in which:
15 unique CDR3
4 unique J



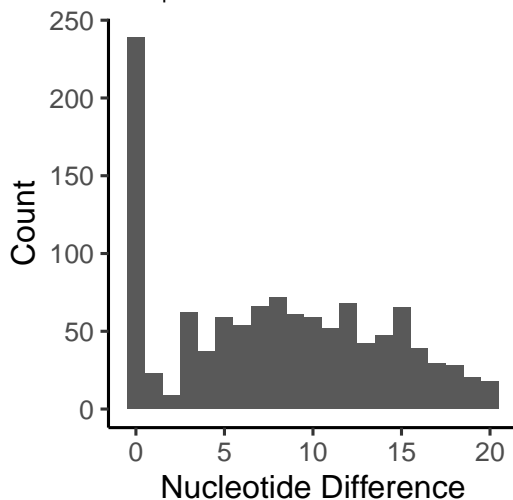
IGHV3-30*03

133 sequences assigned
5 (3.8%) exact matches, in which:
4 unique CDR3
2 unique J



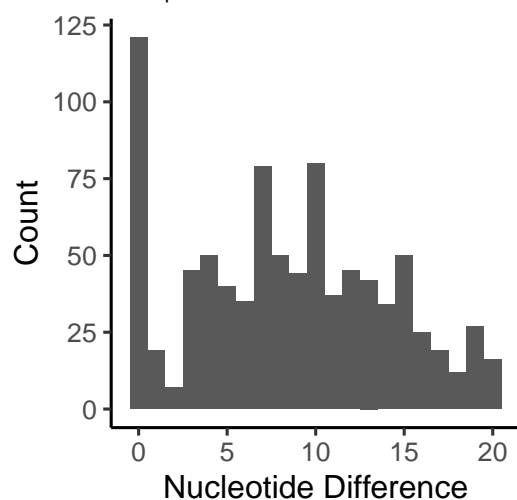
IGHV3-33*01

1272 sequences assigned
239 (18.8%) exact matches, in which:
141 unique CDR3
5 unique J



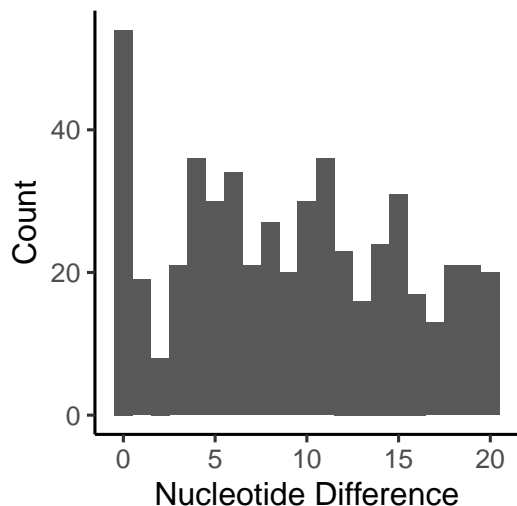
IGHV3-48*02

964 sequences assigned
121 (12.6%) exact matches, in which:
52 unique CDR3
4 unique J



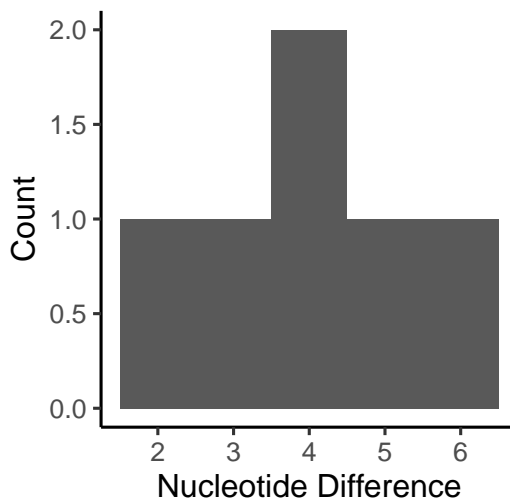
IGHV3-48*03

639 sequences assigned
54 (8.5%) exact matches, in which:
28 unique CDR3
4 unique J



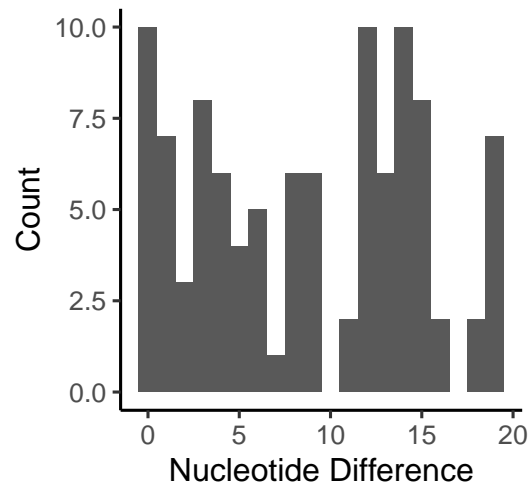
IGHV3-52*01_03

6 sequences assigned
No exact matches.



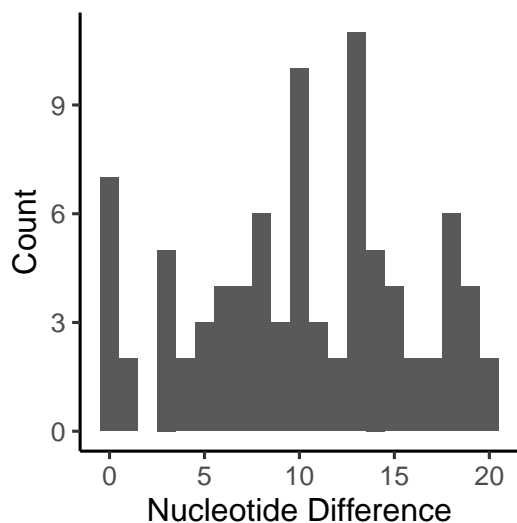
IGHV3-64*01

112 sequences assigned
10 (8.9%) exact matches, in which:
5 unique CDR3
2 unique J



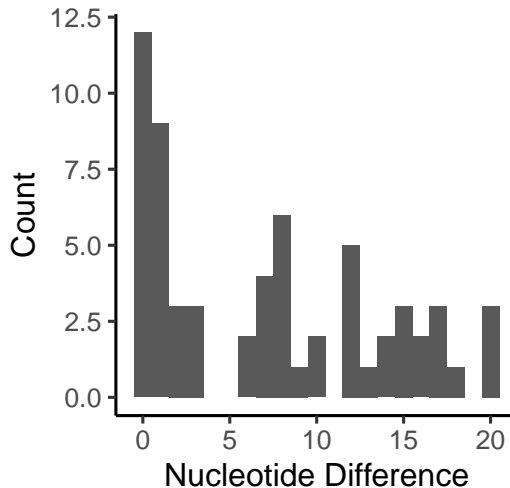
IGHV3-49*04

119 sequences assigned
7 (5.9%) exact matches, in which:
6 unique CDR3
3 unique J



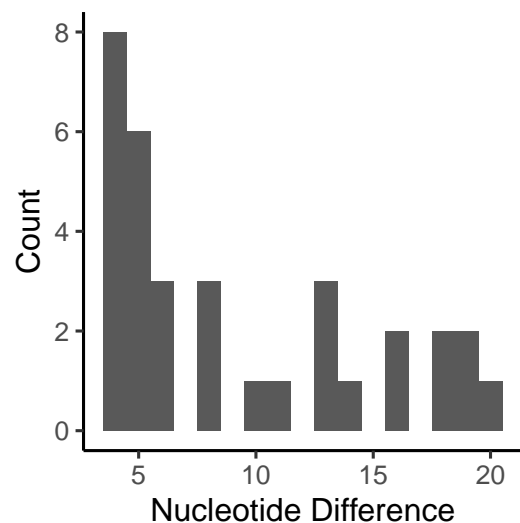
IGHV3-53*04

76 sequences assigned
12 (15.8%) exact matches, in which:
5 unique CDR3
3 unique J



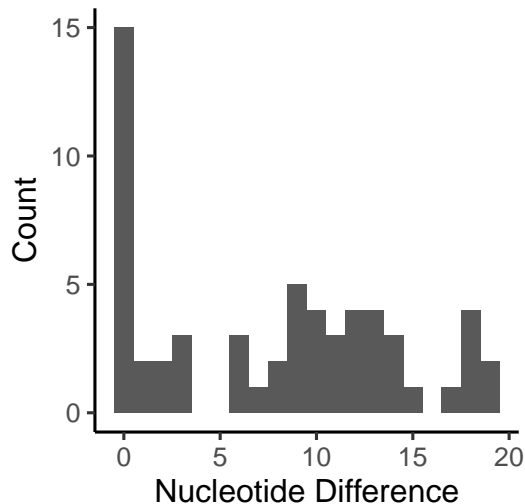
IGHV3-64*02_07

43 sequences assigned
No exact matches.



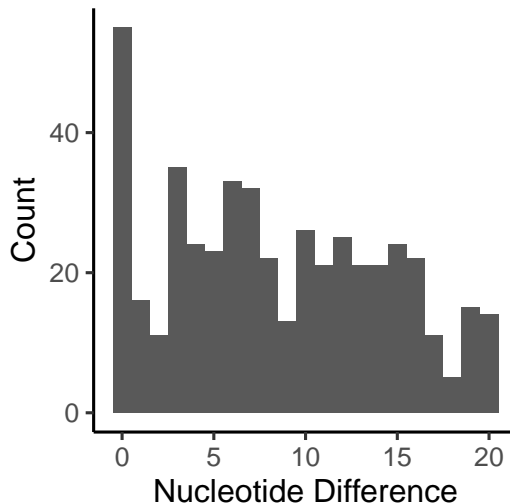
IGHV3-49*03_05

65 sequences assigned
15 (23.1%) exact matches, in which:
14 unique CDR3
4 unique J



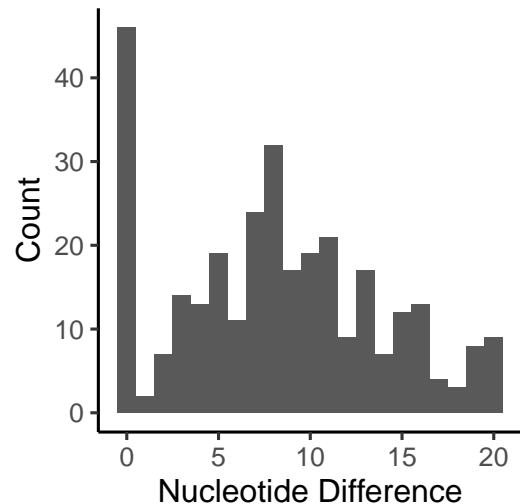
IGHV3-53*01_02

548 sequences assigned
55 (10%) exact matches, in which:
31 unique CDR3
4 unique J



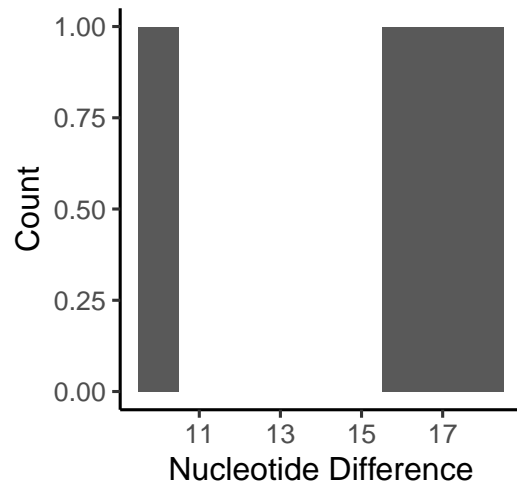
IGHV3-66*01

402 sequences assigned
46 (11.4%) exact matches, in which:
22 unique CDR3
5 unique J



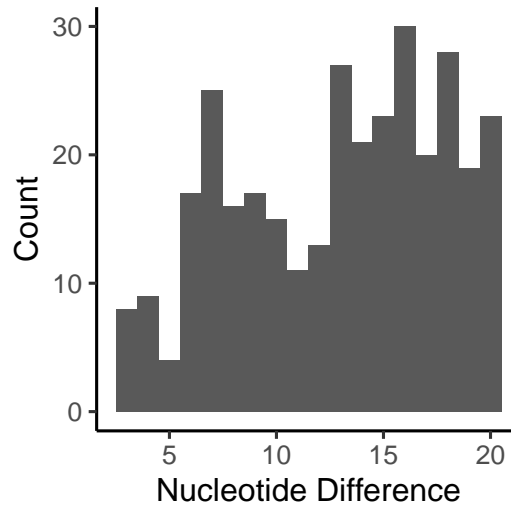
IGHV3-69-1*01

16 sequences assigned
No exact matches.



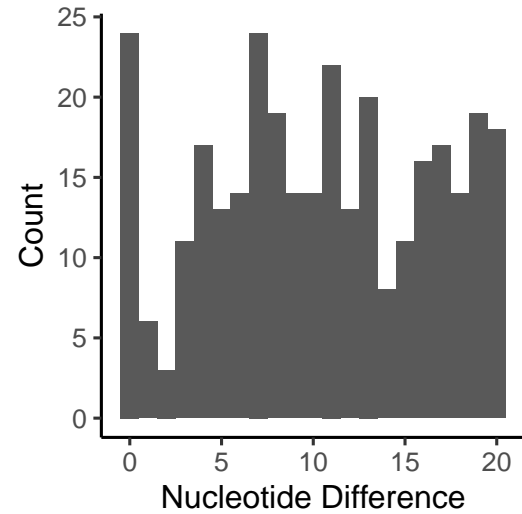
IGHV3-74*03

453 sequences assigned
No exact matches.



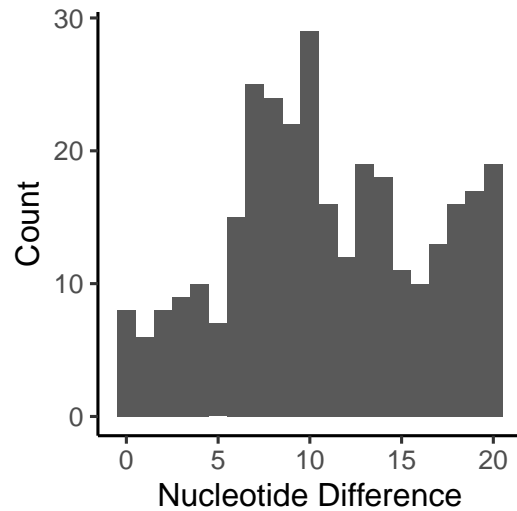
IGHV4-4*07

376 sequences assigned
24 (6.4%) exact matches, in which:
16 unique CDR3
3 unique J



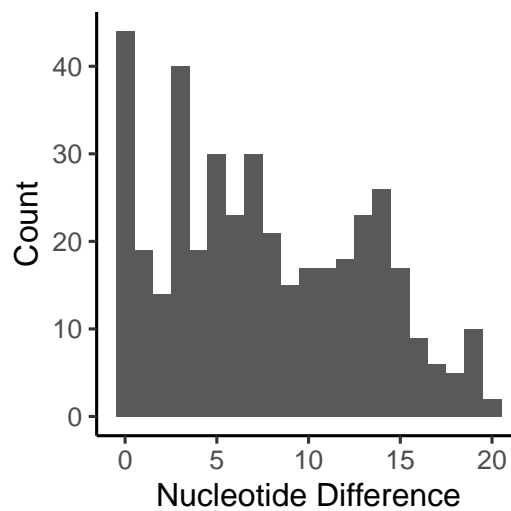
IGHV3-72*01

376 sequences assigned
8 (2.1%) exact matches, in which:
5 unique CDR3
3 unique J



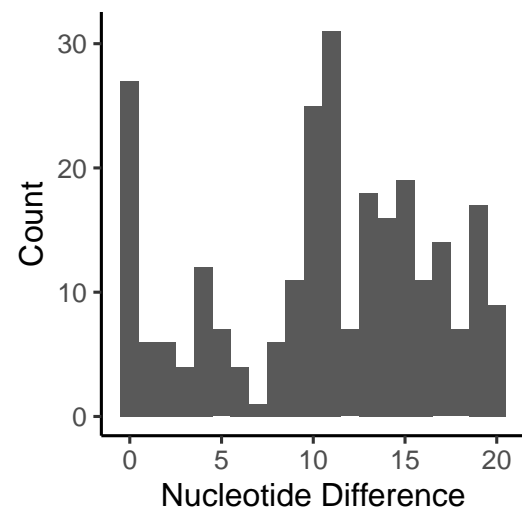
IGHV3-74*01_02

471 sequences assigned
44 (9.3%) exact matches, in which:
26 unique CDR3
4 unique J



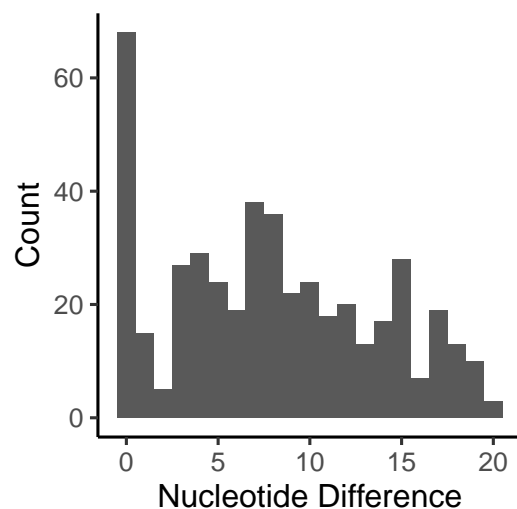
IGHV4-4*02_03

299 sequences assigned
27 (9%) exact matches, in which:
20 unique CDR3
4 unique J



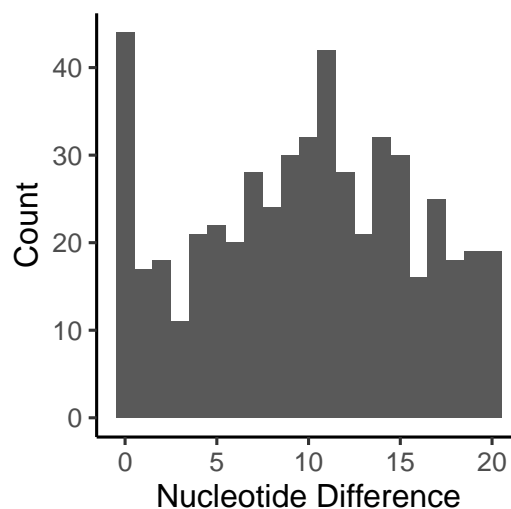
IGHV3-73*01_02

513 sequences assigned
68 (13.3%) exact matches, in which:
31 unique CDR3
4 unique J



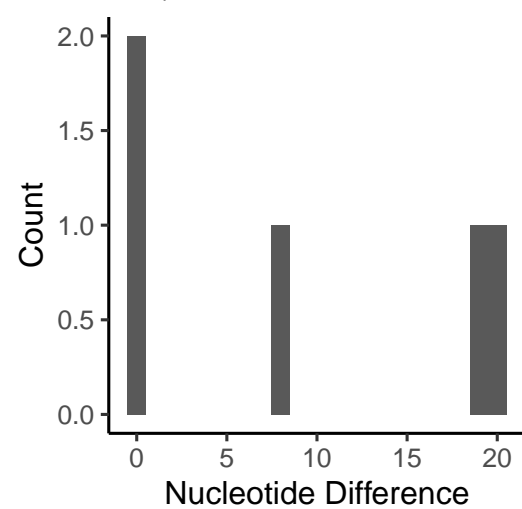
IGHV3-64D*06

626 sequences assigned
44 (7%) exact matches, in which:
23 unique CDR3
6 unique J



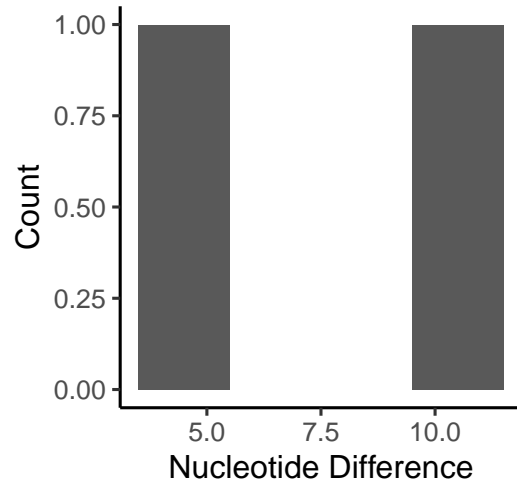
IGHV4-28*03

5 sequences assigned
2 (40%) exact matches, in which:
1 unique CDR3
1 unique J



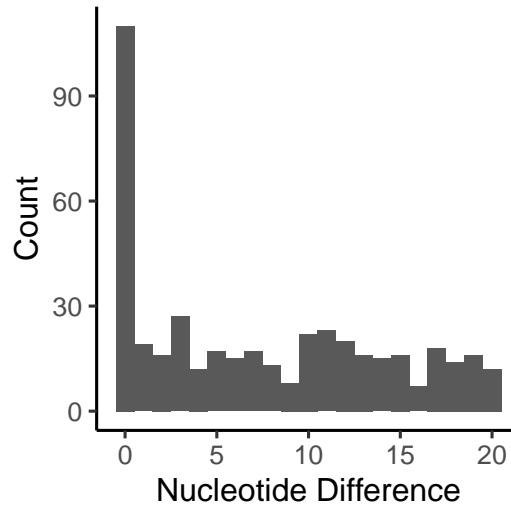
IGHV4-28*01_07

6 sequences assigned
No exact matches.



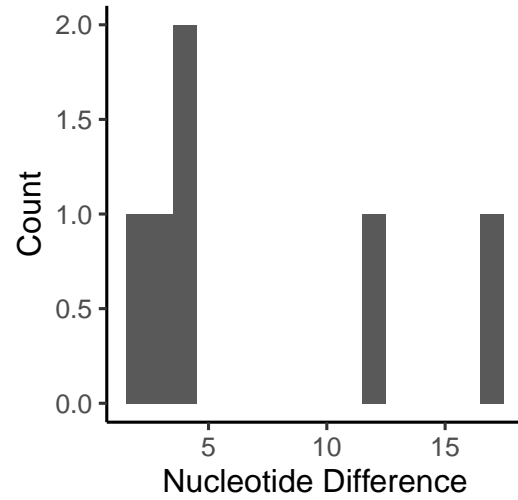
IGHV4-31*02

526 sequences assigned
110 (20.9%) exact matches, in which:
82 unique CDR3
5 unique J



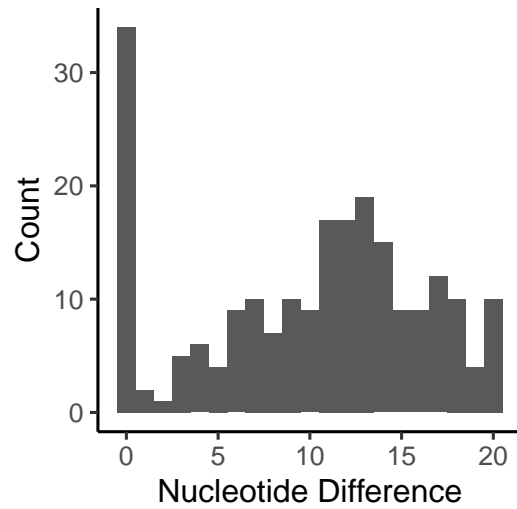
IGHV4-39*07

10 sequences assigned
No exact matches.



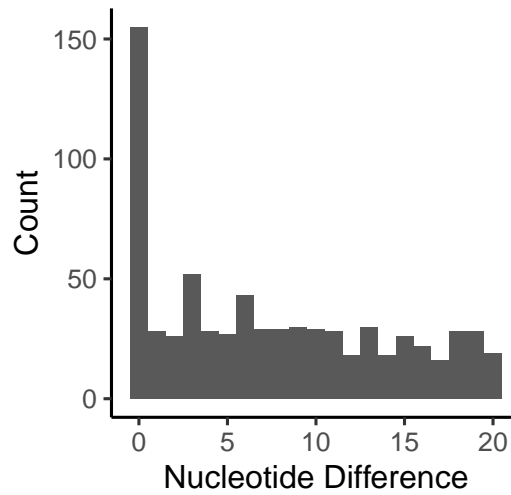
IGHV4-30-4*01

314 sequences assigned
34 (10.8%) exact matches, in which:
24 unique CDR3
5 unique J



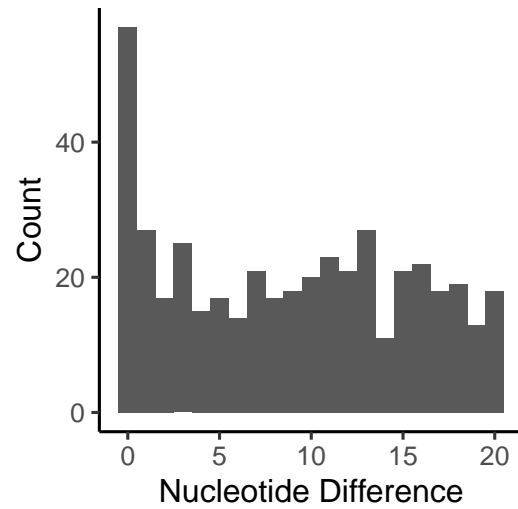
IGHV4-34*01_02

887 sequences assigned
155 (17.5%) exact matches, in which:
86 unique CDR3
4 unique J



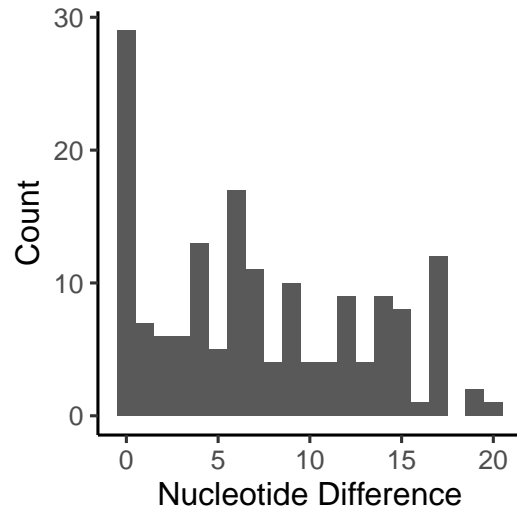
IGHV4-59*08

609 sequences assigned
57 (9.4%) exact matches, in which:
38 unique CDR3
5 unique J



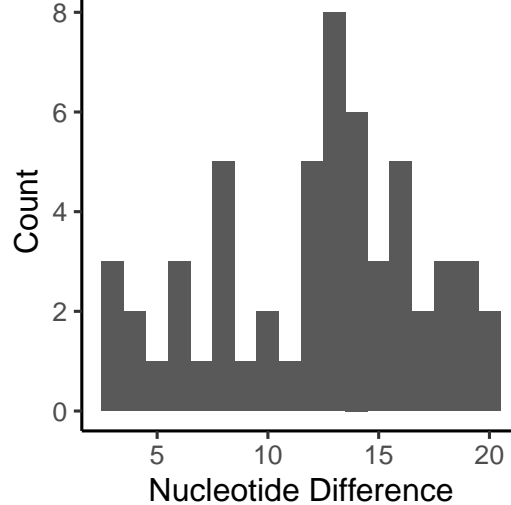
IGHV4-30-2*01

200 sequences assigned
29 (14.5%) exact matches, in which:
17 unique CDR3
4 unique J



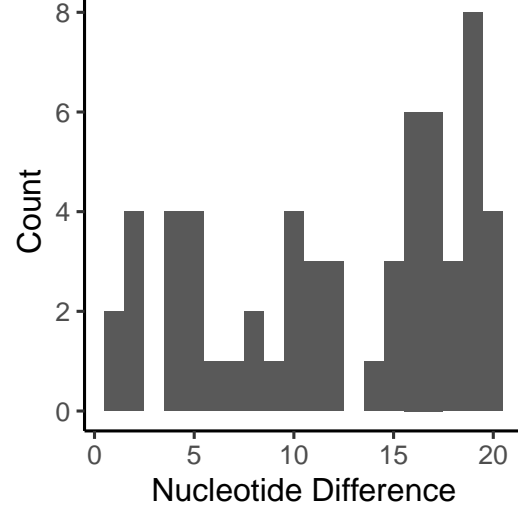
IGHV4-39*02

80 sequences assigned
No exact matches.



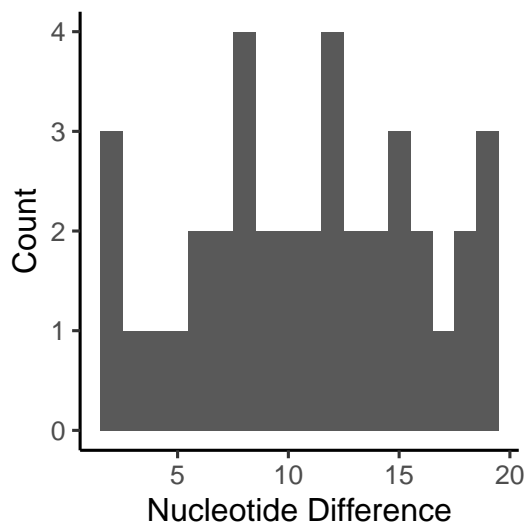
IGHV4-59*11

176 sequences assigned
No exact matches.



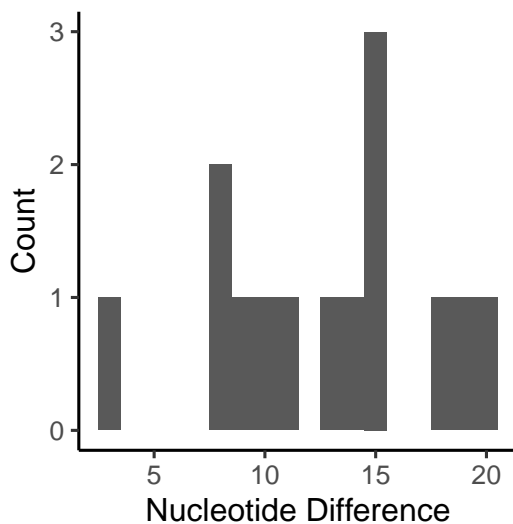
IGHV4-59*12

116 sequences assigned
No exact matches.



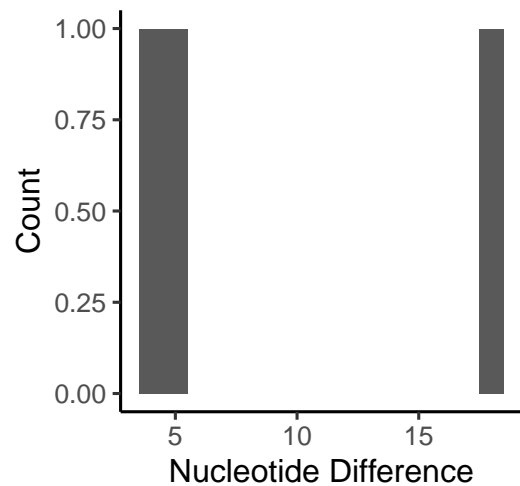
IGHV4-61*08

32 sequences assigned
No exact matches.



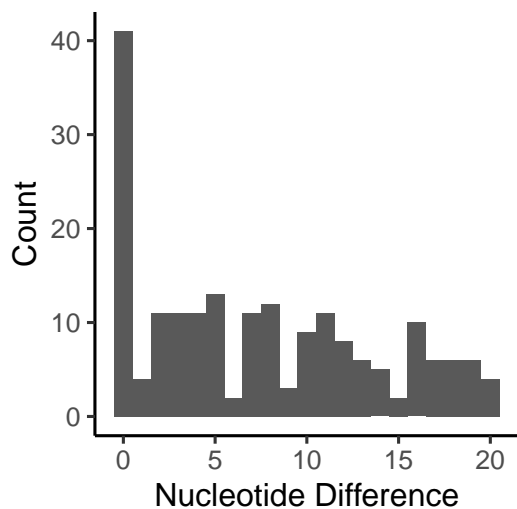
IGHV5-51*06

3 sequences assigned
No exact matches.



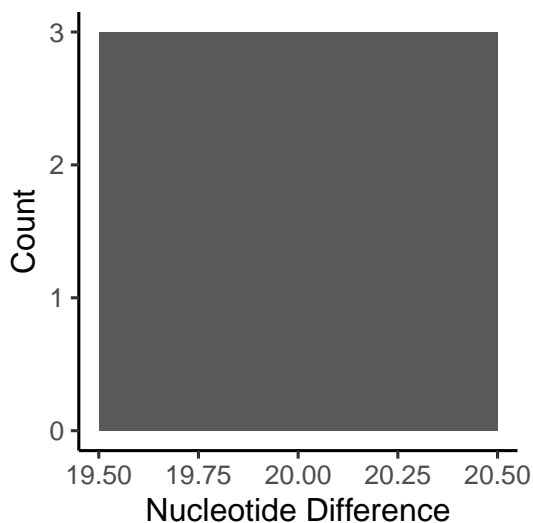
IGHV4-61*01

216 sequences assigned
41 (19%) exact matches, in which:
30 unique CDR3
4 unique J



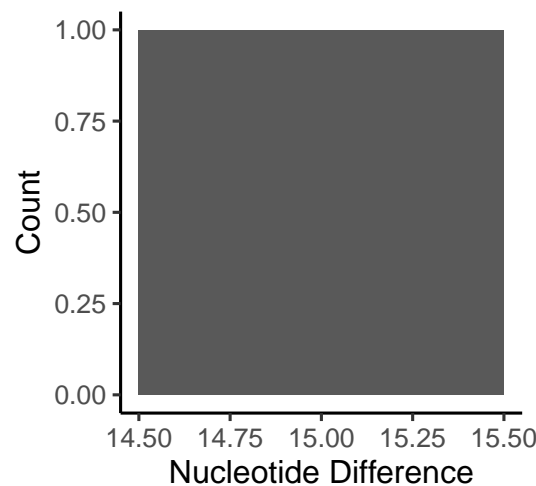
IGHV4/OR15-8*01

5 sequences assigned
No exact matches.



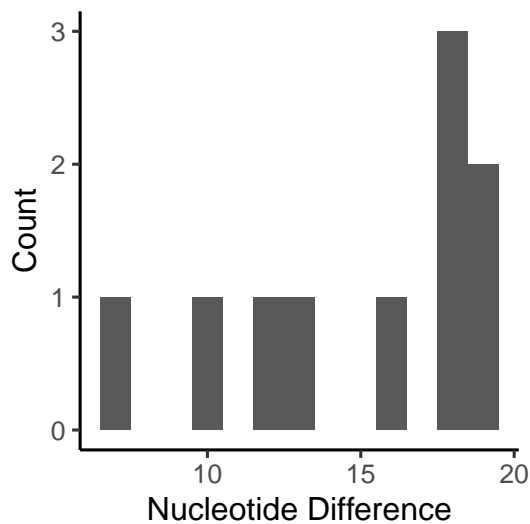
IGHV5-51*07

1 sequences assigned
No exact matches.



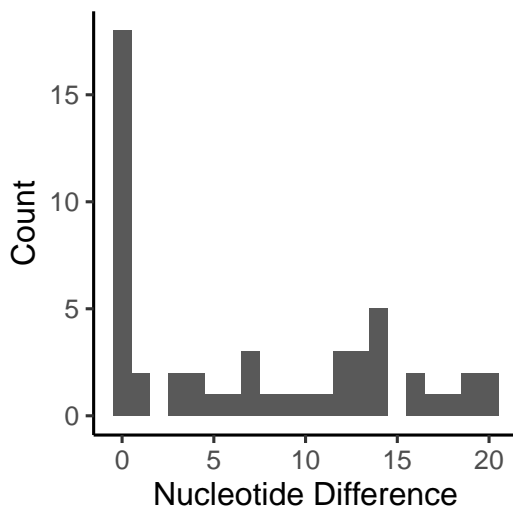
IGHV4-61*02

34 sequences assigned
No exact matches.



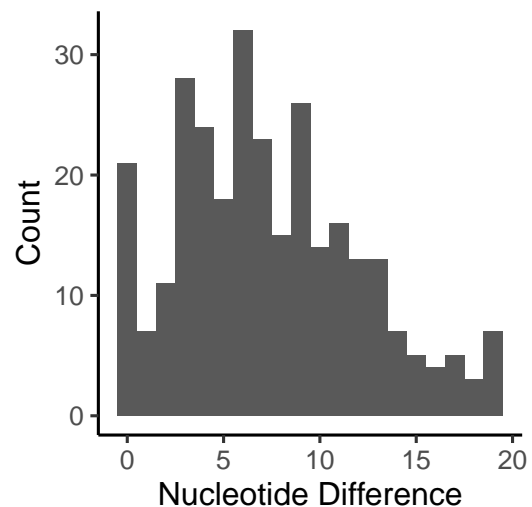
IGHV5-10-1*01_03

67 sequences assigned
18 (26.9%) exact matches, in which:
18 unique CDR3
4 unique J



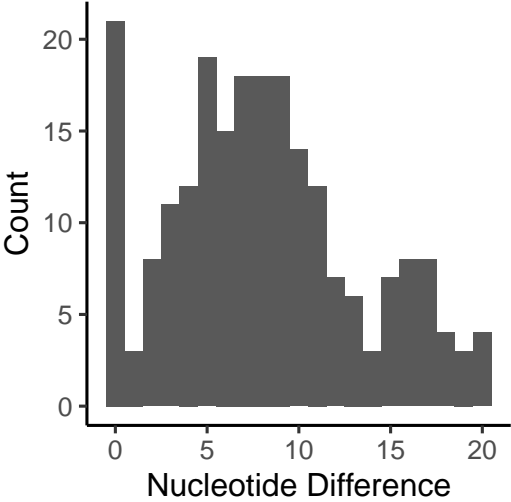
IGHV6-1*01_02

319 sequences assigned
21 (6.6%) exact matches, in which:
16 unique CDR3
4 unique J

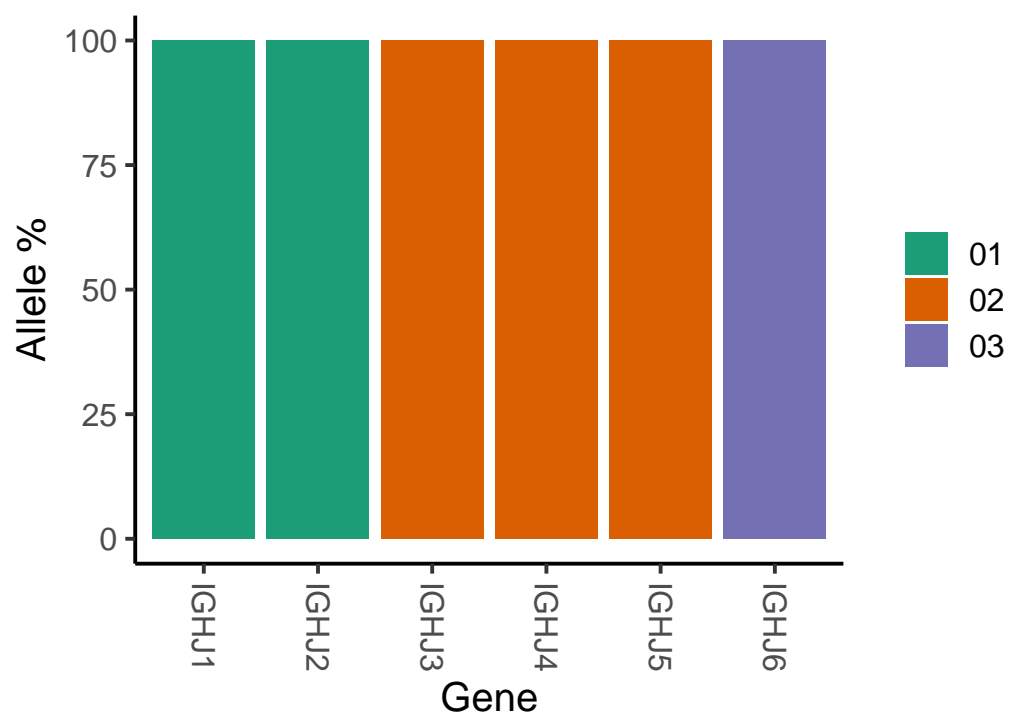


IGHV7-4-1*02

227 sequences assigned
21 (9.3%) exact matches, in which:
20 unique CDR3
3 unique J



Allele Usage



Warning – no inferred sequences found.