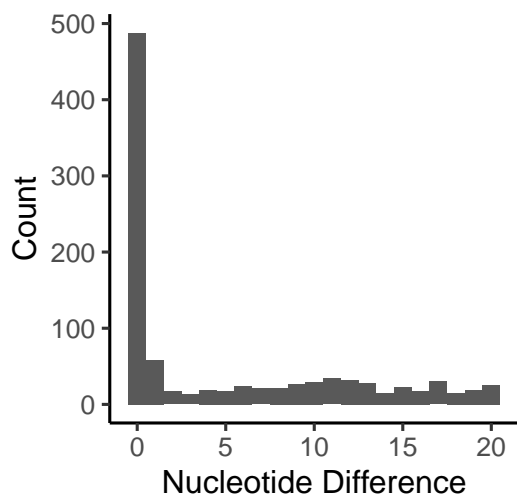


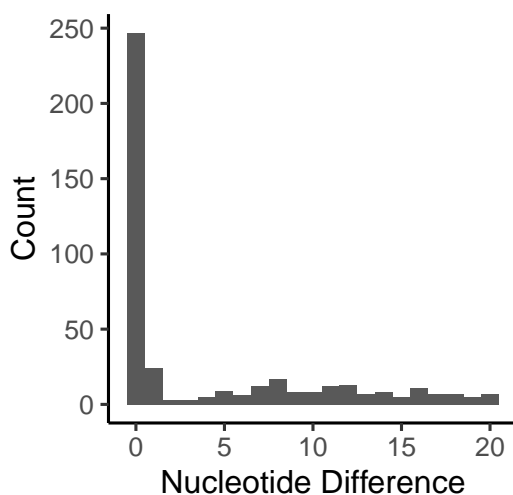
IGHV1-2*02

1151 sequences assigned
488 (42.4%) exact matches, in which:
488 unique CDR3
7 unique J



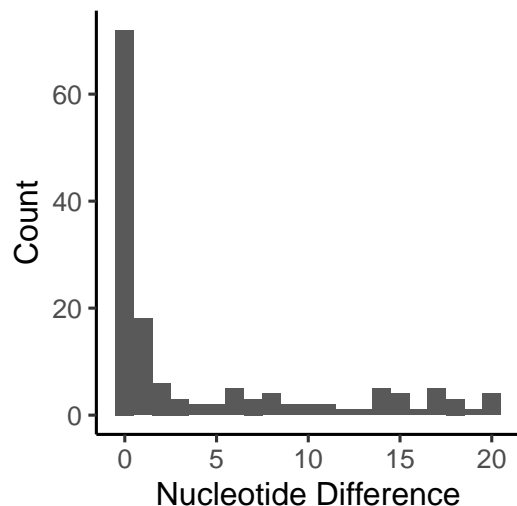
IGHV1-18*01

524 sequences assigned
247 (47.1%) exact matches, in which:
246 unique CDR3
7 unique J



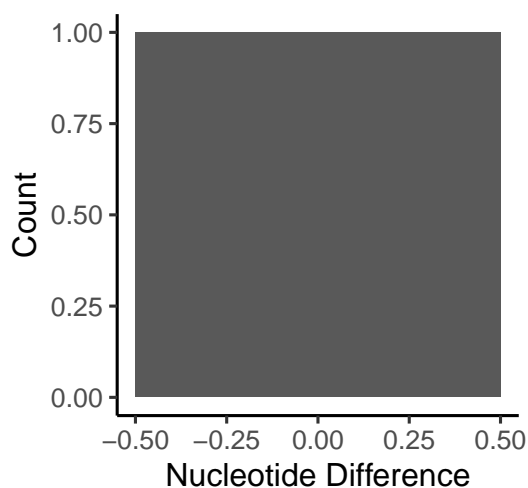
IGHV1-46*01

168 sequences assigned
72 (42.9%) exact matches, in which:
72 unique CDR3
6 unique J



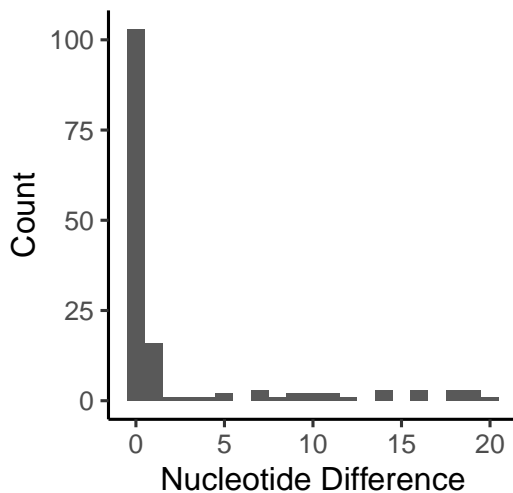
IGHV1-3*02

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



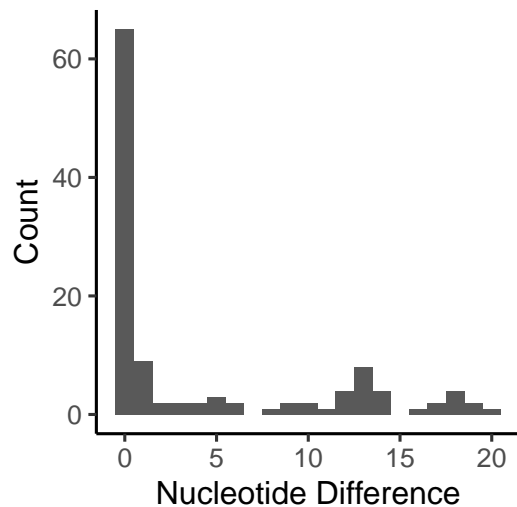
IGHV1-24*01

162 sequences assigned
103 (63.6%) exact matches, in which:
103 unique CDR3
7 unique J



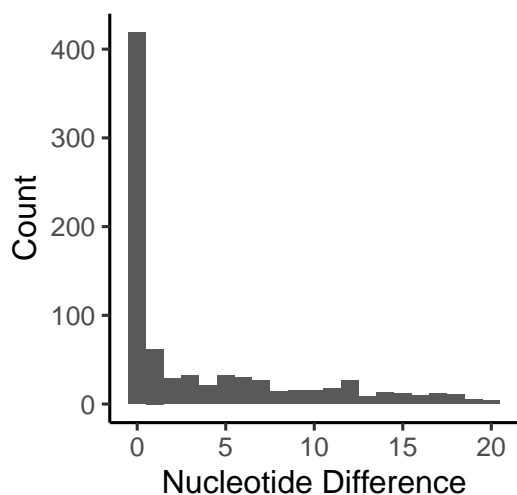
IGHV1-46*03

134 sequences assigned
65 (48.5%) exact matches, in which:
65 unique CDR3
5 unique J



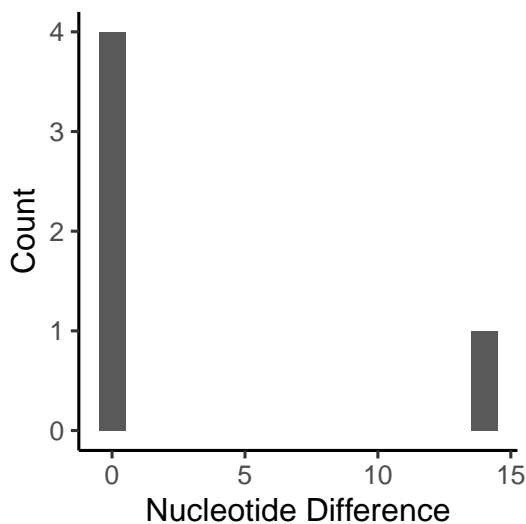
IGHV1-8*01

869 sequences assigned
419 (48.2%) exact matches, in which:
419 unique CDR3
7 unique J



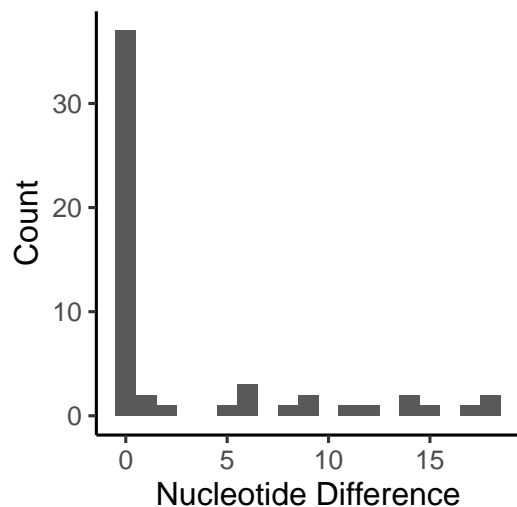
IGHV1-45*02

6 sequences assigned
4 (66.7%) exact matches, in which:
4 unique CDR3
3 unique J



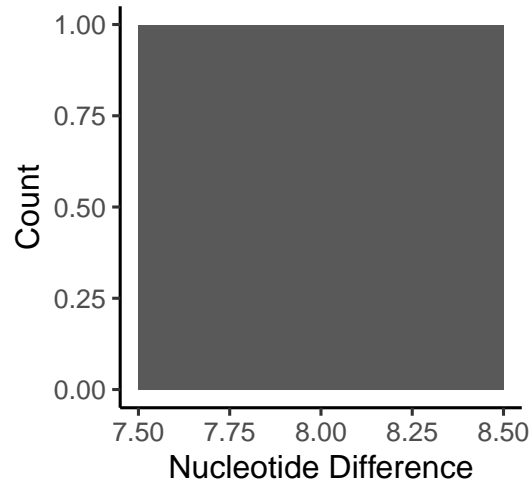
IGHV1-58*01

57 sequences assigned
37 (64.9%) exact matches, in which:
37 unique CDR3
6 unique J



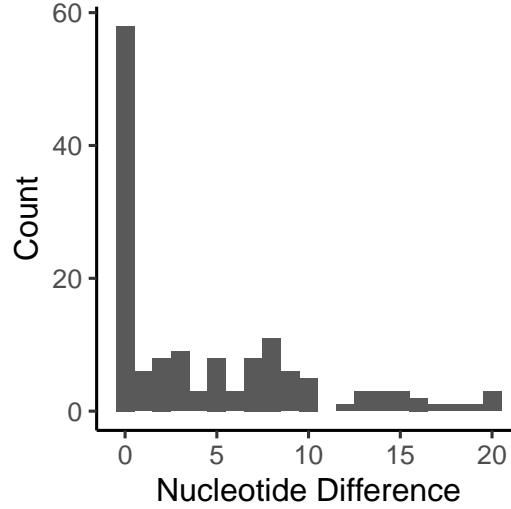
IGHV1-68*01

1 sequences assigned
No exact matches.



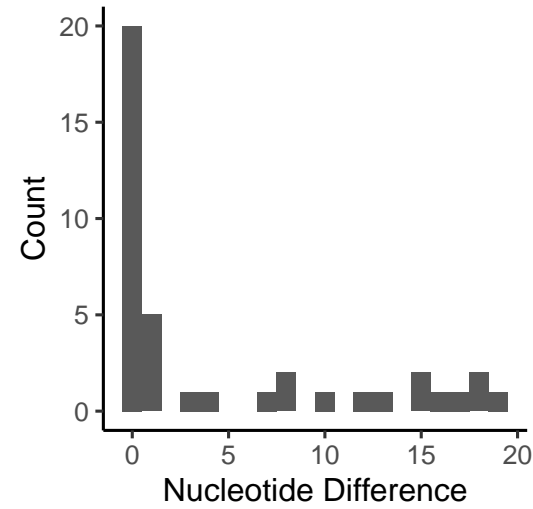
IGHV2-5*01

167 sequences assigned
58 (34.7%) exact matches, in which:
58 unique CDR3
4 unique J



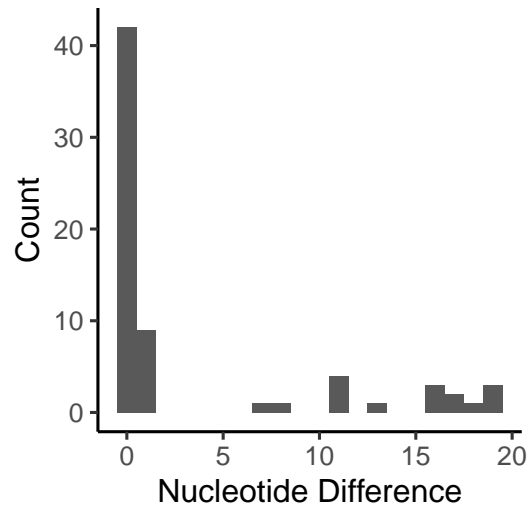
IGHV2-70*01

47 sequences assigned
20 (42.6%) exact matches, in which:
20 unique CDR3
5 unique J



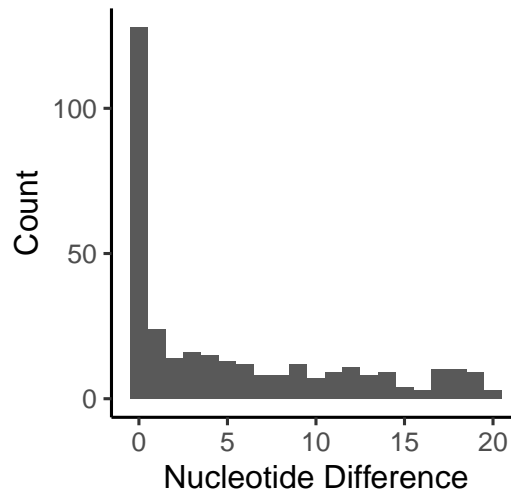
IGHV1-69-2*01

80 sequences assigned
42 (52.5%) exact matches, in which:
42 unique CDR3
6 unique J



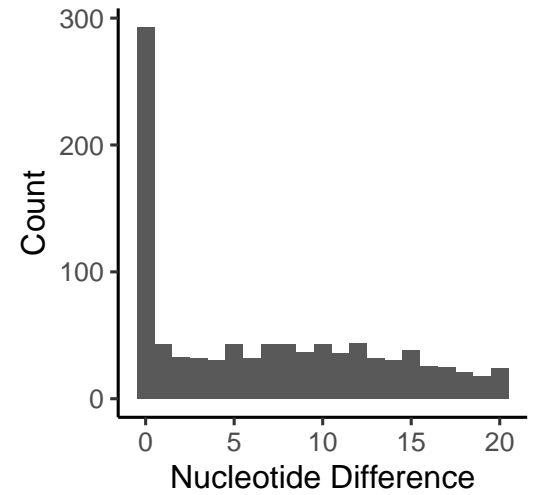
IGHV2-5*02

361 sequences assigned
128 (35.5%) exact matches, in which:
128 unique CDR3
7 unique J



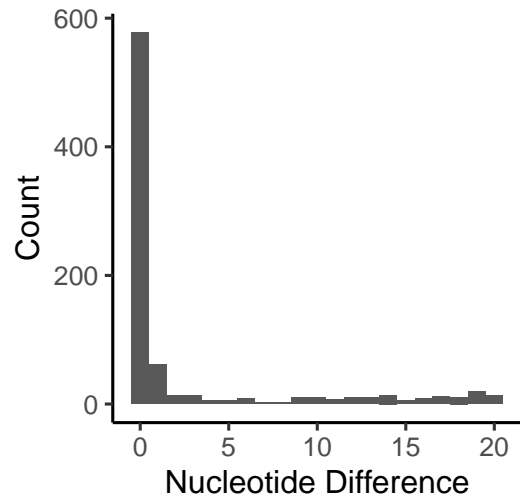
IGHV3-7*01

1045 sequences assigned
293 (28%) exact matches, in which:
292 unique CDR3
7 unique J



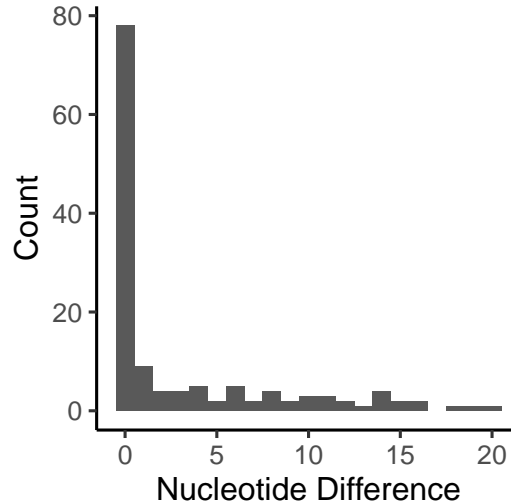
IGHV1-69*06

921 sequences assigned
578 (62.8%) exact matches, in which:
578 unique CDR3
7 unique J



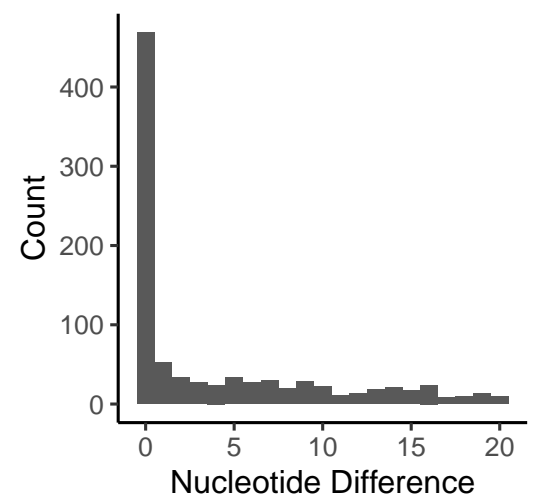
IGHV2-26*01

143 sequences assigned
78 (54.5%) exact matches, in which:
78 unique CDR3
7 unique J



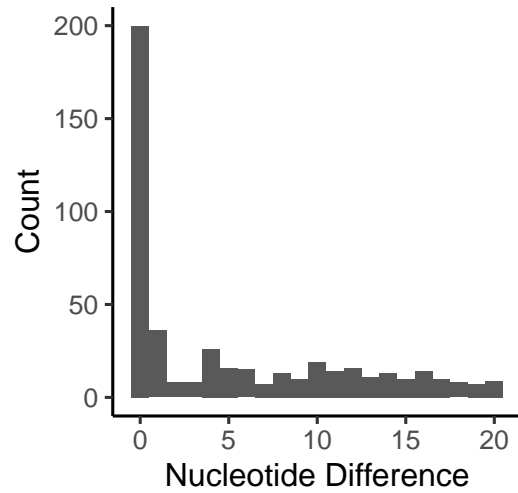
IGHV3-9*01

993 sequences assigned
469 (47.2%) exact matches, in which:
469 unique CDR3
7 unique J



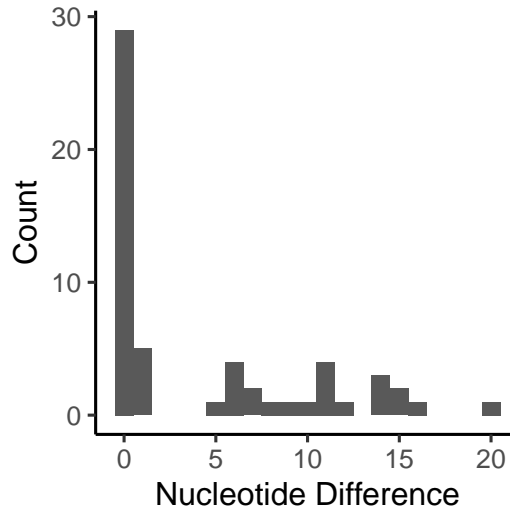
IGHV3-11*01

517 sequences assigned
200 (38.7%) exact matches, in which:
200 unique CDR3
7 unique J



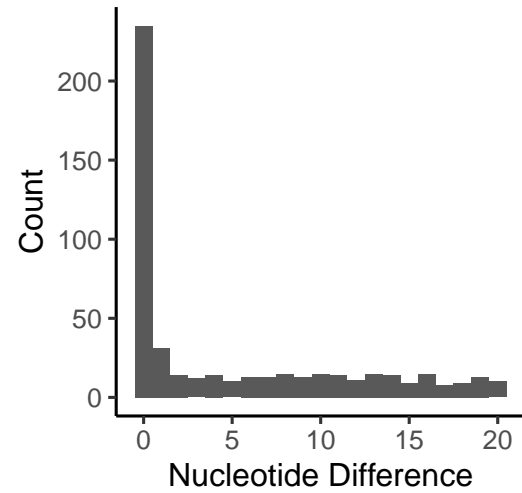
IGHV3-20*01

58 sequences assigned
29 (50%) exact matches, in which:
29 unique CDR3
5 unique J



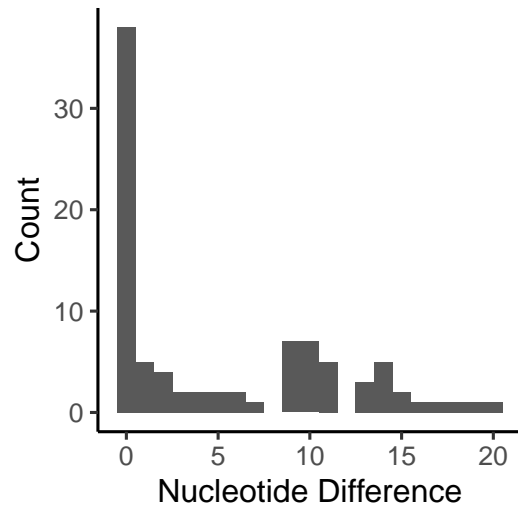
IGHV3-30-3*01

570 sequences assigned
235 (41.2%) exact matches, in which:
234 unique CDR3
6 unique J



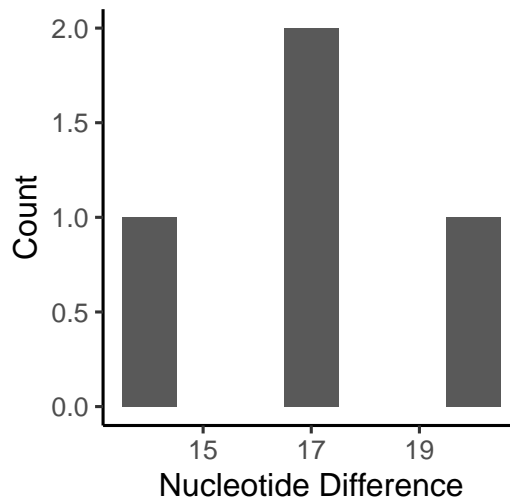
IGHV3-13*01

103 sequences assigned
38 (36.9%) exact matches, in which:
38 unique CDR3
6 unique J



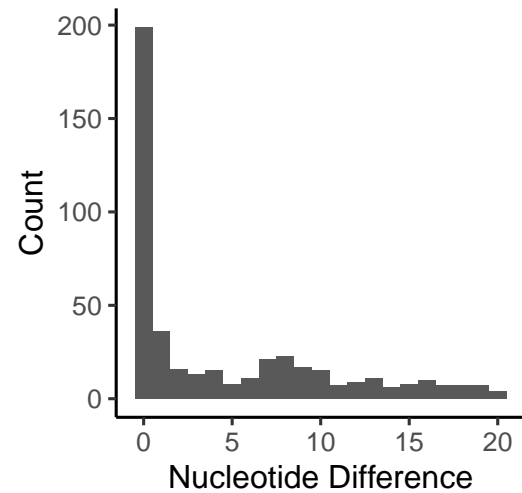
IGHV3-20*04

9 sequences assigned
No exact matches.



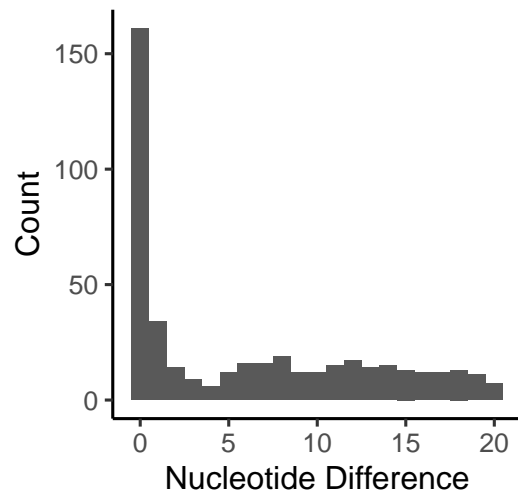
IGHV3-33*01

496 sequences assigned
199 (40.1%) exact matches, in which:
199 unique CDR3
7 unique J



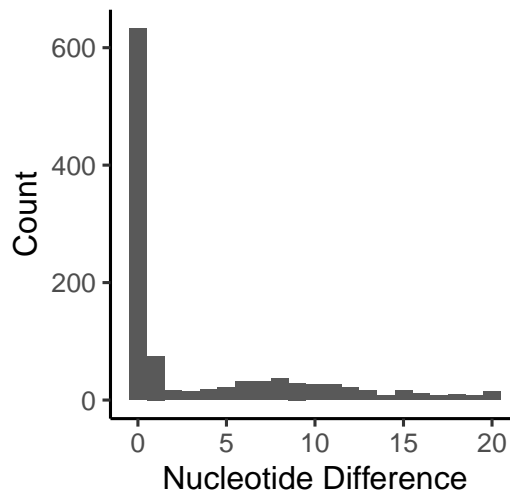
IGHV3-15*01

498 sequences assigned
161 (32.3%) exact matches, in which:
161 unique CDR3
7 unique J



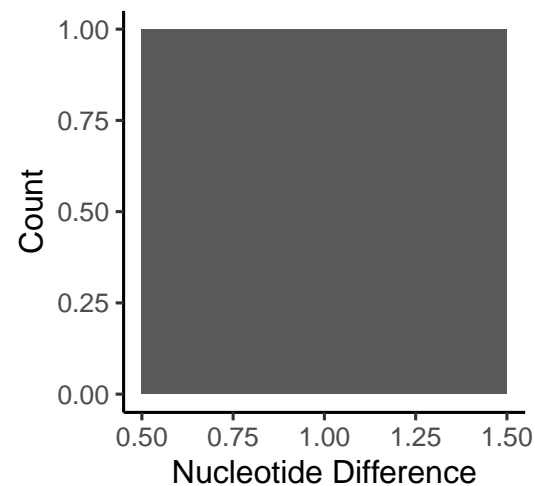
IGHV3-21*01

1140 sequences assigned
633 (55.5%) exact matches, in which:
631 unique CDR3
7 unique J



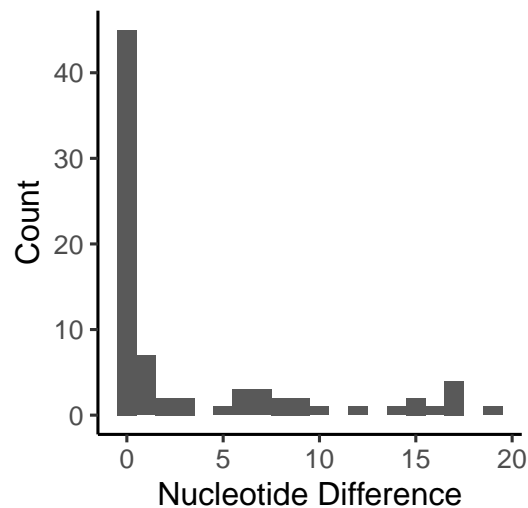
IGHV3-35*01

1 sequences assigned
No exact matches.



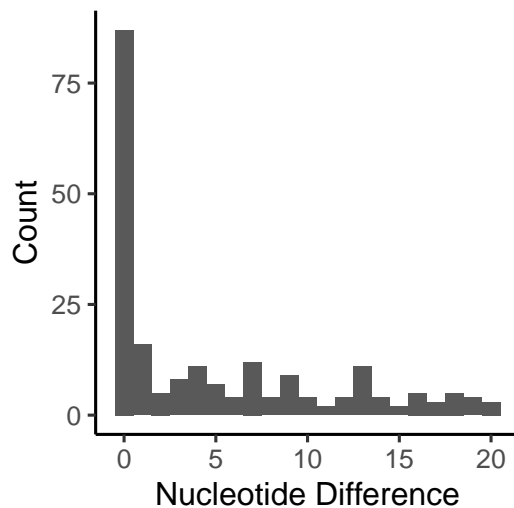
IGHV3-43*01

89 sequences assigned
45 (50.6%) exact matches, in which:
45 unique CDR3
6 unique J



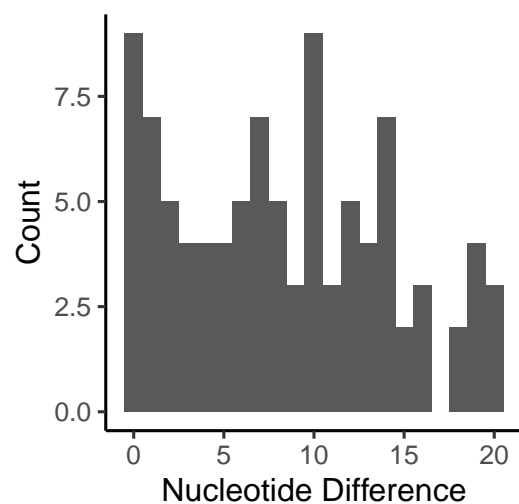
IGHV3-53*01

245 sequences assigned
87 (35.5%) exact matches, in which:
86 unique CDR3
6 unique J



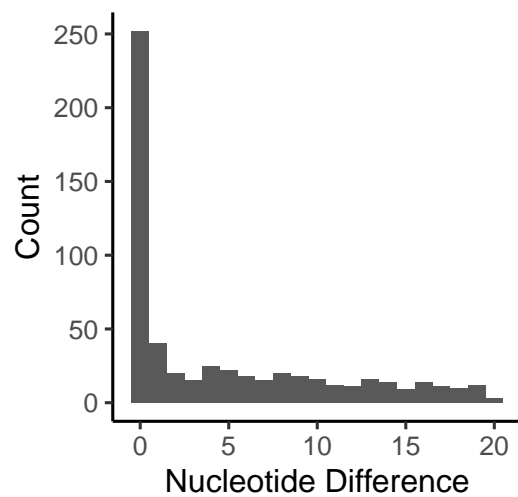
IGHV3-72*01

101 sequences assigned
9 (8.9%) exact matches, in which:
9 unique CDR3
5 unique J



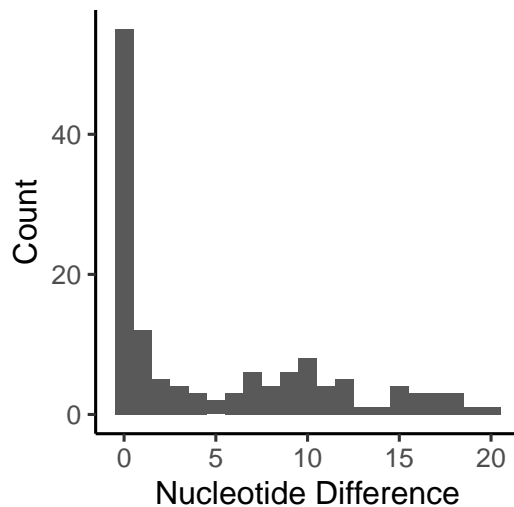
IGHV3-48*02

618 sequences assigned
252 (40.8%) exact matches, in which:
251 unique CDR3
6 unique J



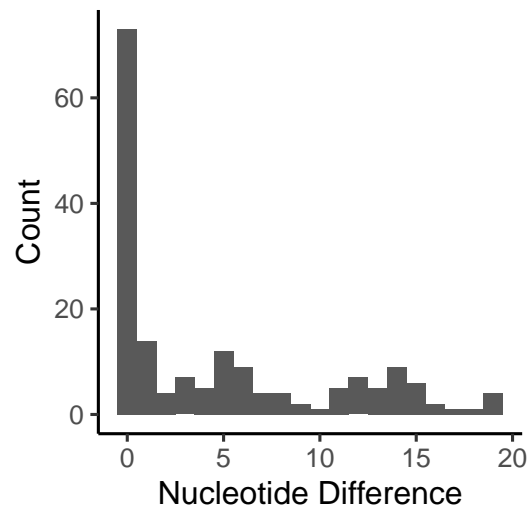
IGHV3-53*02

149 sequences assigned
55 (36.9%) exact matches, in which:
55 unique CDR3
5 unique J



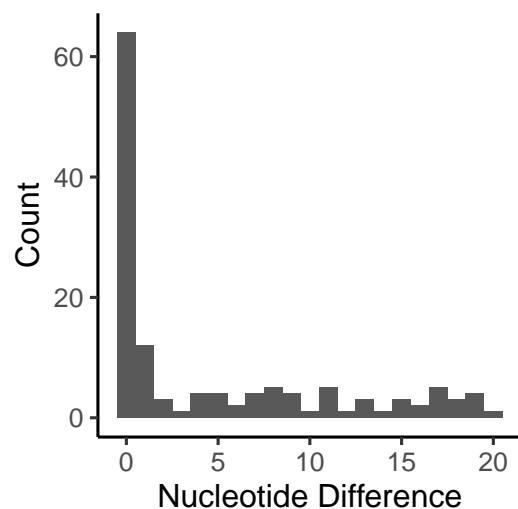
IGHV3-73*02

188 sequences assigned
73 (38.8%) exact matches, in which:
73 unique CDR3
6 unique J



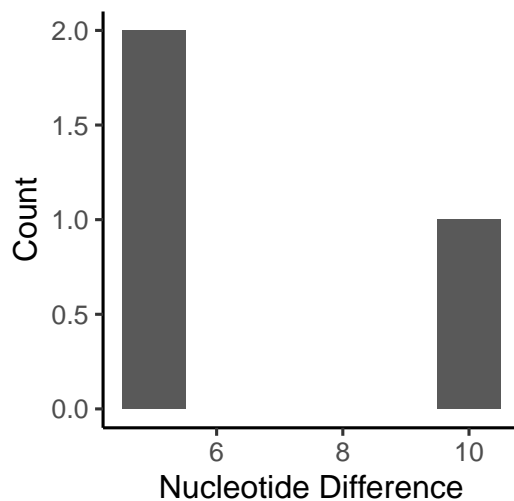
IGHV3-49*05

155 sequences assigned
64 (41.3%) exact matches, in which:
64 unique CDR3
7 unique J



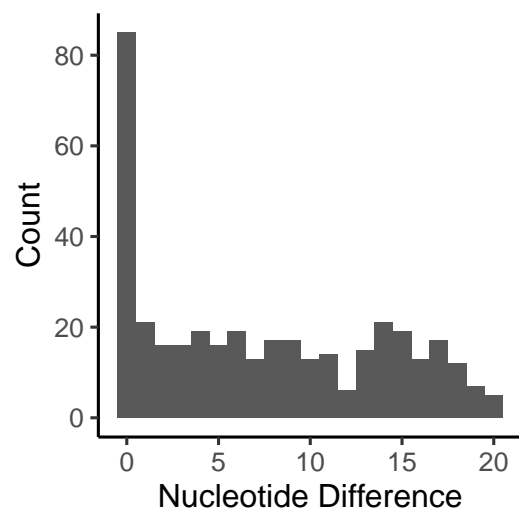
IGHV3-64*02

4 sequences assigned
No exact matches.



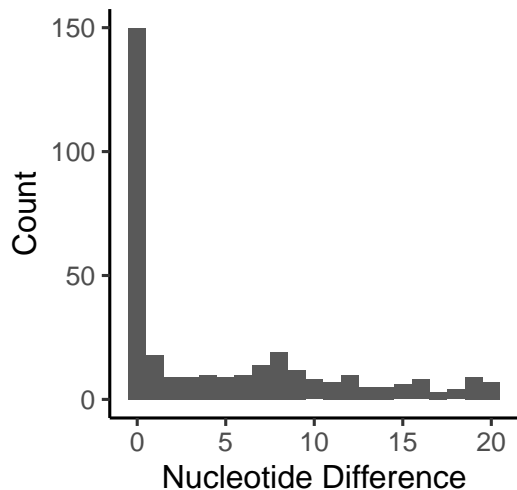
IGHV3-74*01

422 sequences assigned
85 (20.1%) exact matches, in which:
85 unique CDR3
6 unique J



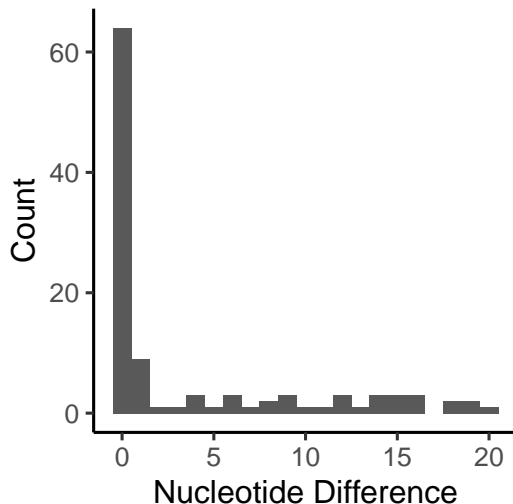
IGHV4-4*07

372 sequences assigned
150 (40.3%) exact matches, in which:
150 unique CDR3
7 unique J



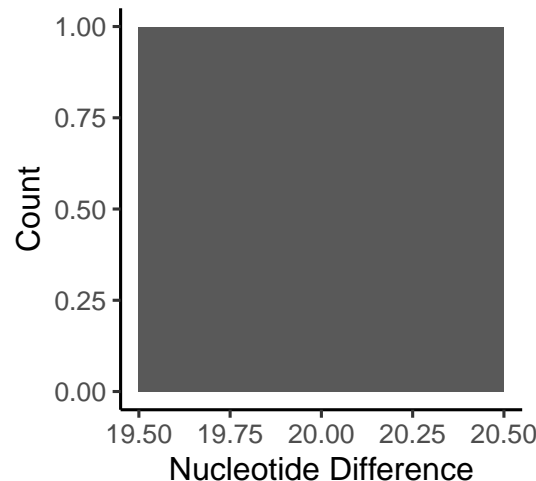
IGHV4-30-2*01

121 sequences assigned
64 (52.9%) exact matches, in which:
64 unique CDR3
6 unique J



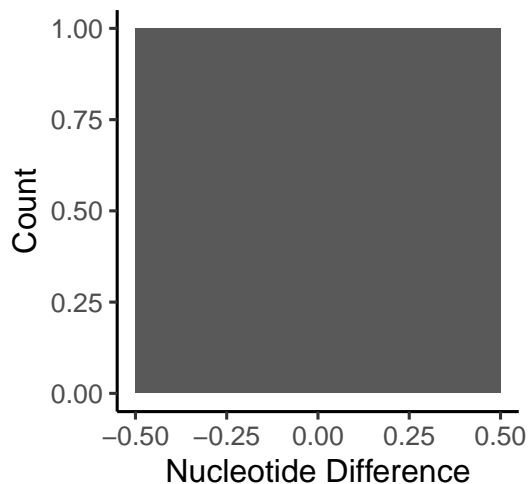
IGHV4-38-2*01

1 sequences assigned
No exact matches.



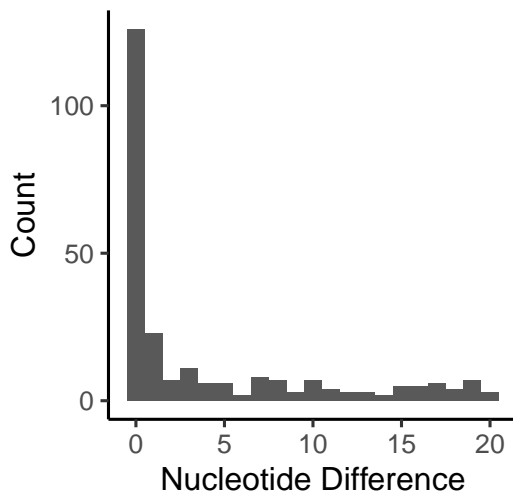
IGHV4-28*03

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



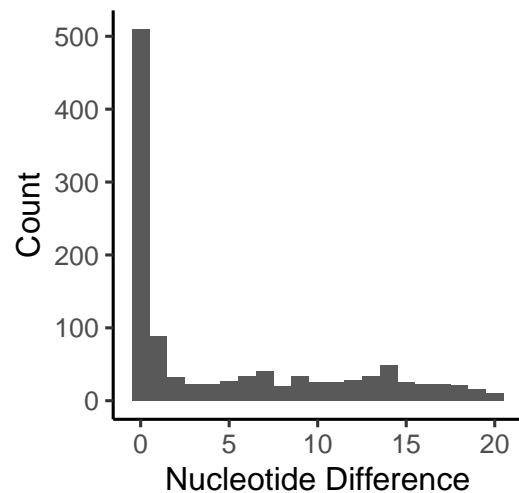
IGHV4-31*03

270 sequences assigned
126 (46.7%) exact matches, in which:
126 unique CDR3
6 unique J



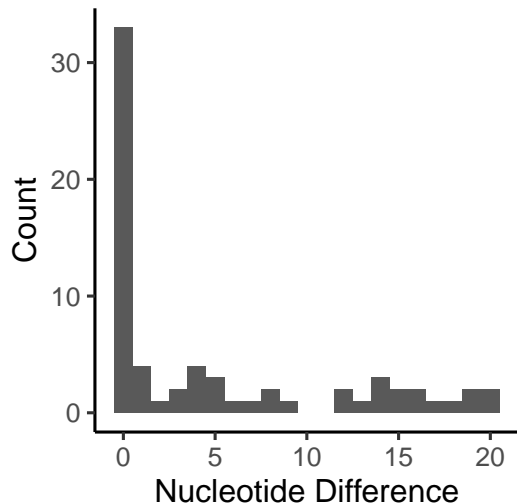
IGHV4-39*01

1306 sequences assigned
510 (39.1%) exact matches, in which:
508 unique CDR3
7 unique J



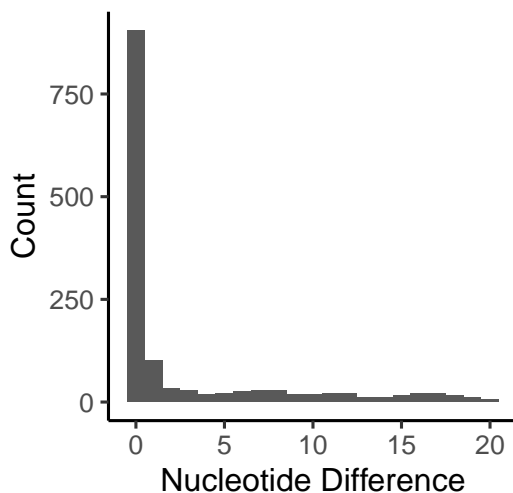
IGHV4-30-4*01

89 sequences assigned
33 (37.1%) exact matches, in which:
33 unique CDR3
5 unique J



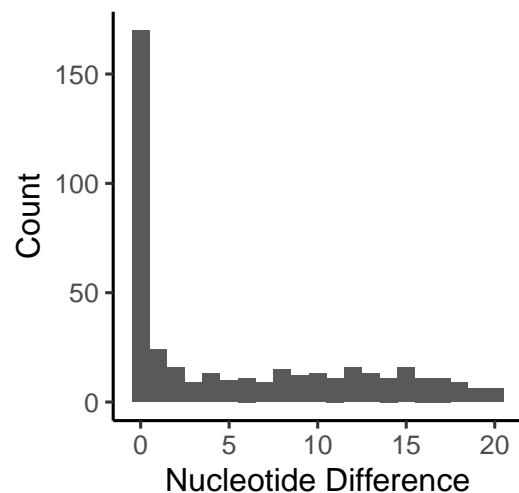
IGHV4-34*01

1500 sequences assigned
905 (60.3%) exact matches, in which:
904 unique CDR3
7 unique J



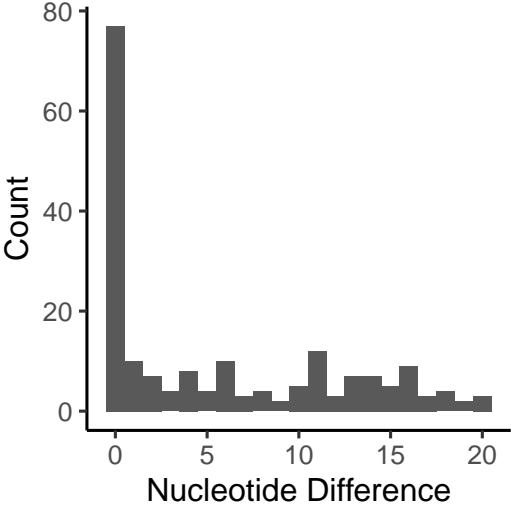
IGHV4-59*01

478 sequences assigned
170 (35.6%) exact matches, in which:
170 unique CDR3
7 unique J



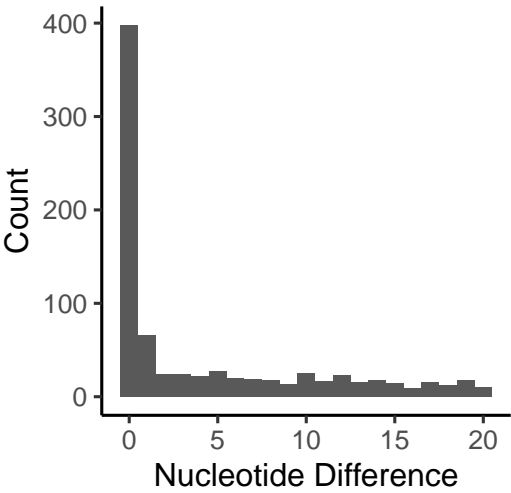
IGHV4-61*01

238 sequences assigned
77 (32.4%) exact matches, in which:
77 unique CDR3
6 unique J



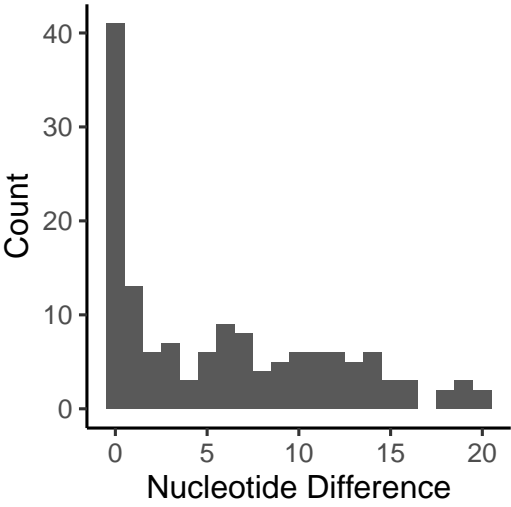
IGHV5-51*01

874 sequences assigned
398 (45.5%) exact matches, in which:
398 unique CDR3
7 unique J

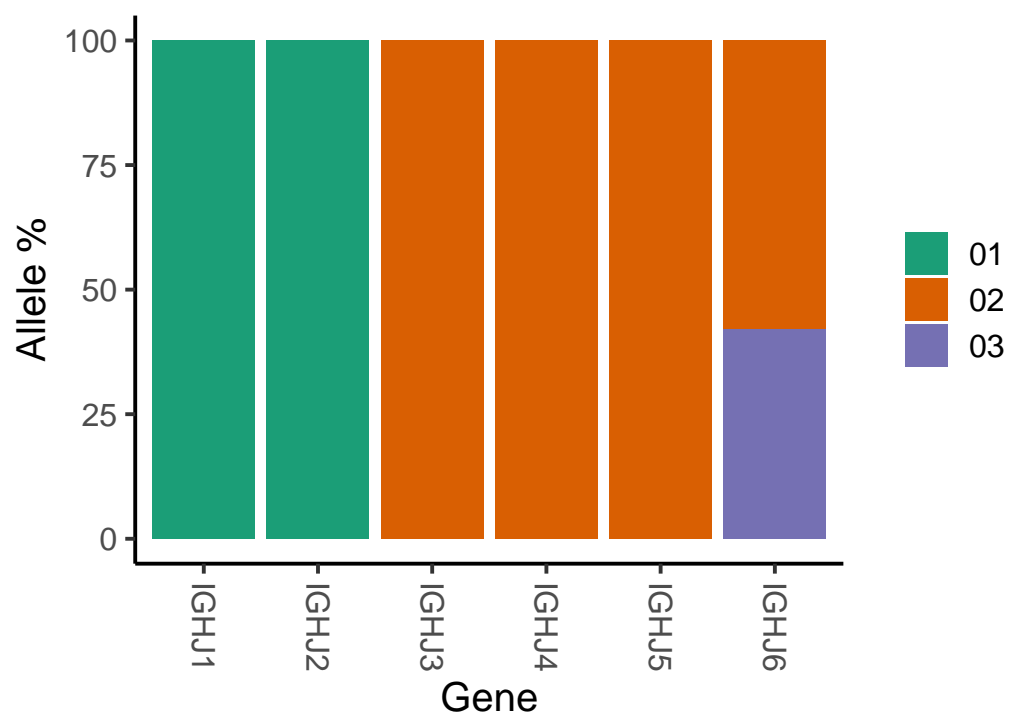


IGHV6-1*01

151 sequences assigned
41 (27.2%) exact matches, in which:
41 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage

