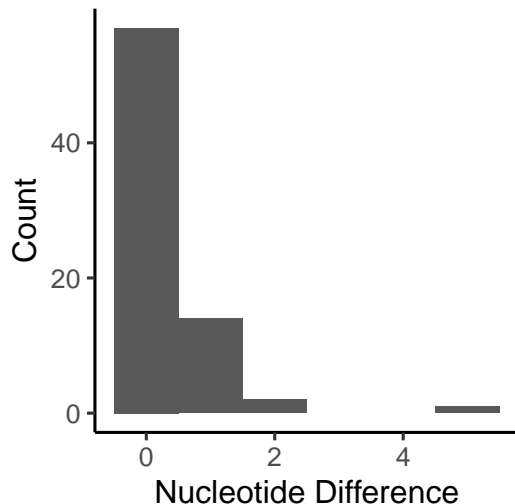


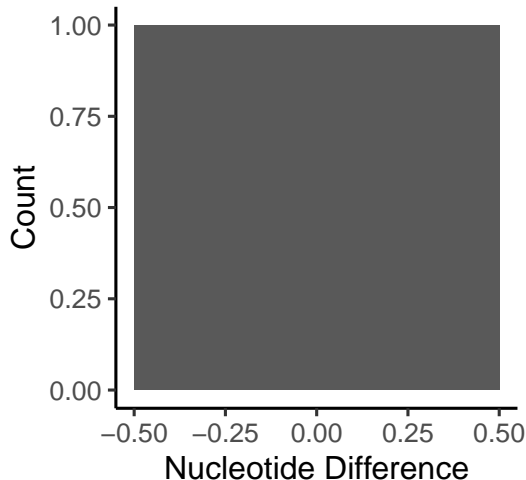
IGHV1-2*04

74 sequences assigned
57 (77%) exact matches, in which:
57 unique CDR3
6 unique J



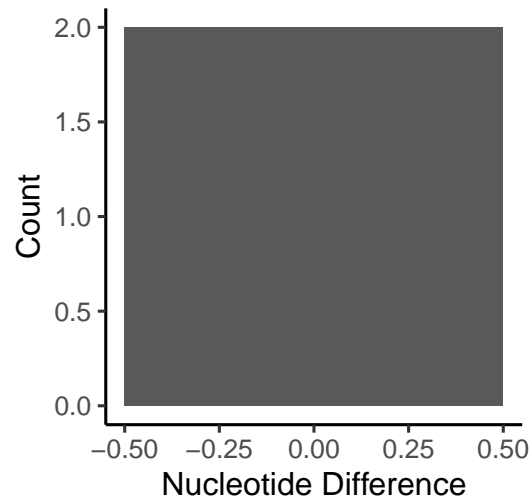
IGHV1-8*01

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



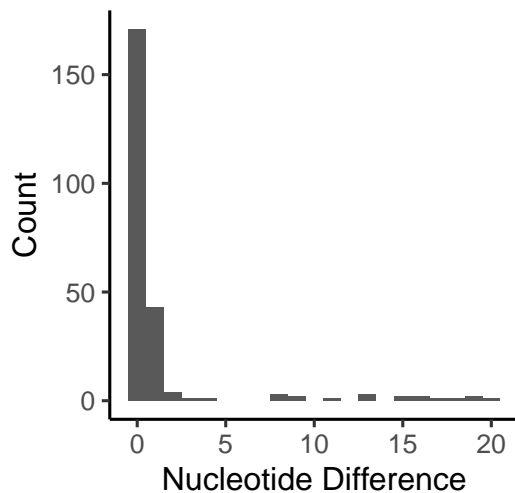
IGHV1-45*02

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
1 unique J



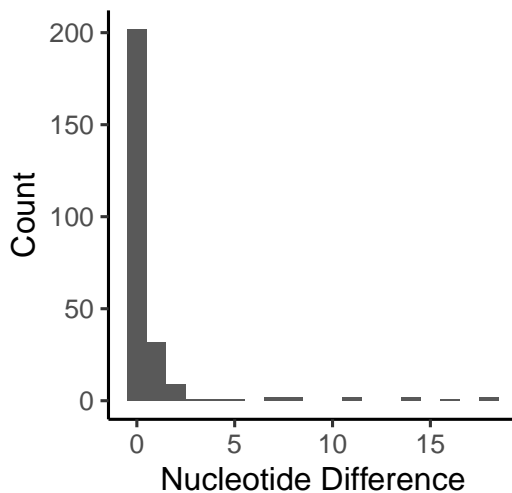
IGHV1-2*06

241 sequences assigned
171 (71%) exact matches, in which:
171 unique CDR3
6 unique J



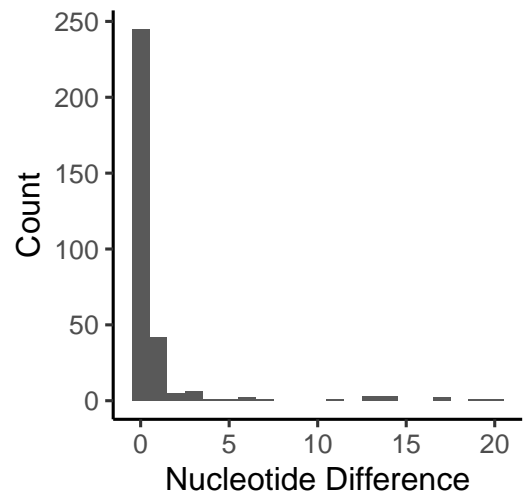
IGHV1-18*01

262 sequences assigned
202 (77.1%) exact matches, in which:
202 unique CDR3
7 unique J



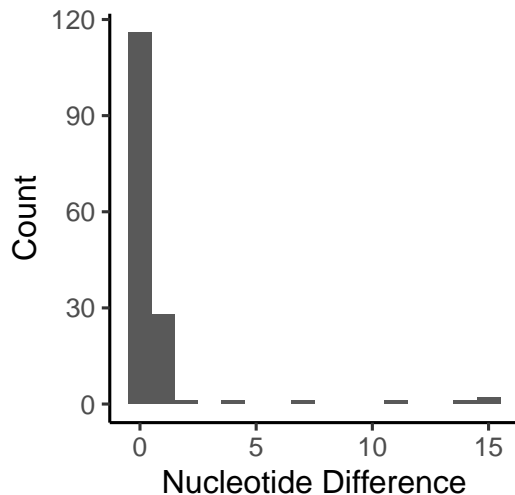
IGHV1-46*01

318 sequences assigned
245 (77%) exact matches, in which:
245 unique CDR3
7 unique J



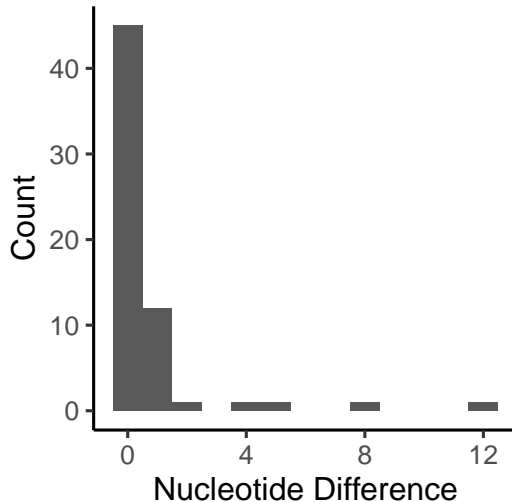
IGHV1-3*01

152 sequences assigned
116 (76.3%) exact matches, in which:
116 unique CDR3
6 unique J



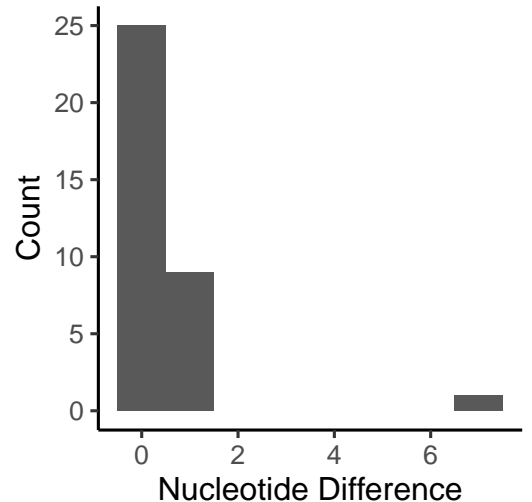
IGHV1-24*01

62 sequences assigned
45 (72.6%) exact matches, in which:
45 unique CDR3
7 unique J



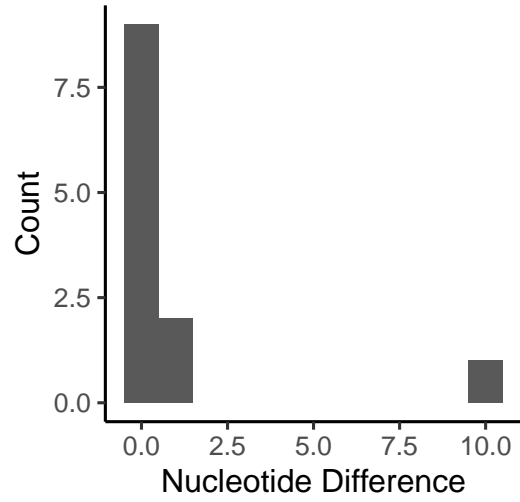
IGHV1-58*01

35 sequences assigned
25 (71.4%) exact matches, in which:
25 unique CDR3
5 unique J



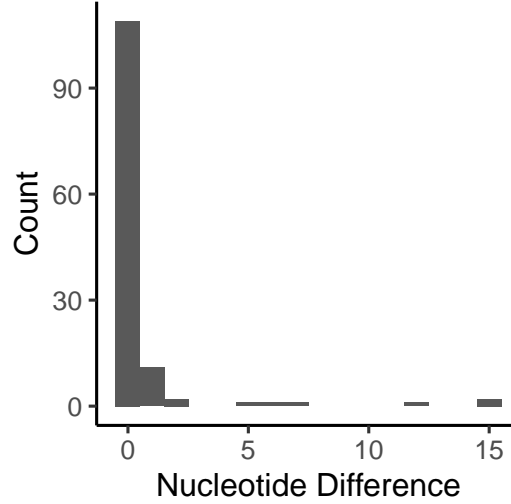
IGHV1-69-2*01

12 sequences assigned
9 (75%) exact matches, in which:
9 unique CDR3
4 unique J



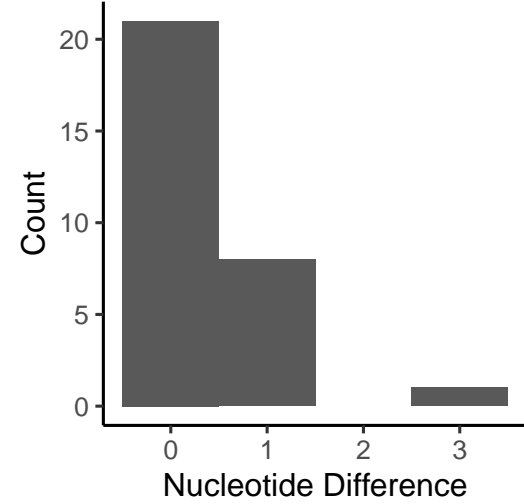
IGHV2-26*01

128 sequences assigned
109 (85.2%) exact matches, in which:
109 unique CDR3
7 unique J



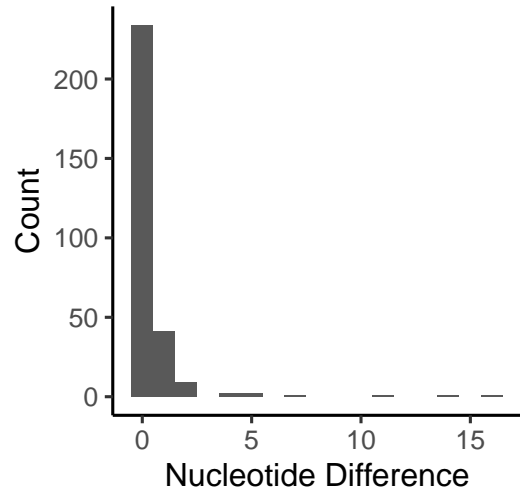
IGHV3-7*04

30 sequences assigned
21 (70%) exact matches, in which:
21 unique CDR3
4 unique J



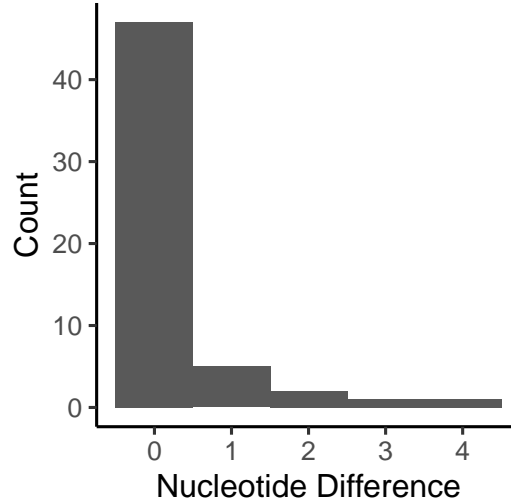
IGHV1-69*06

297 sequences assigned
234 (78.8%) exact matches, in which:
234 unique CDR3
6 unique J



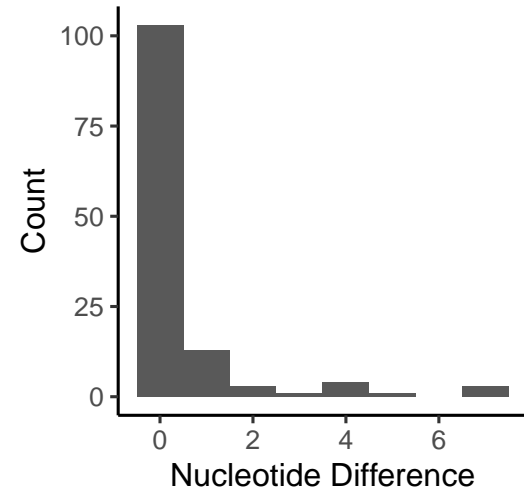
IGHV2-70*01

56 sequences assigned
47 (83.9%) exact matches, in which:
47 unique CDR3
5 unique J



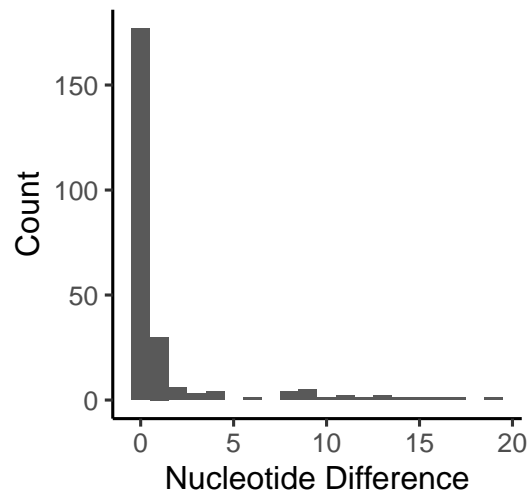
IGHV3-11*05

128 sequences assigned
103 (80.5%) exact matches, in which:
103 unique CDR3
5 unique J



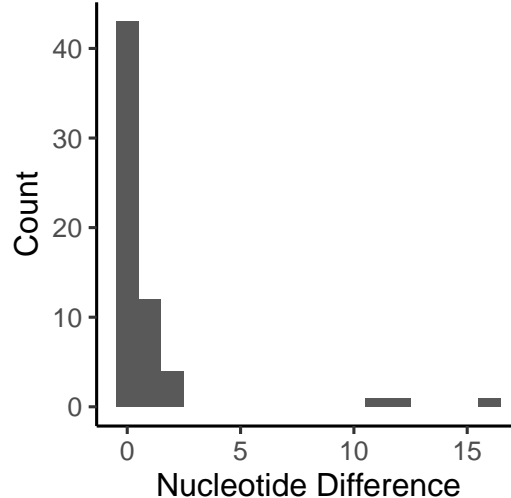
IGHV2-5*02

242 sequences assigned
177 (73.1%) exact matches, in which:
177 unique CDR3
7 unique J



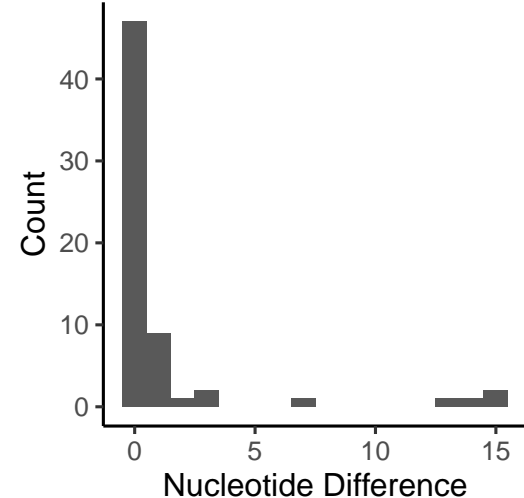
IGHV3-7*01

64 sequences assigned
43 (67.2%) exact matches, in which:
43 unique CDR3
6 unique J



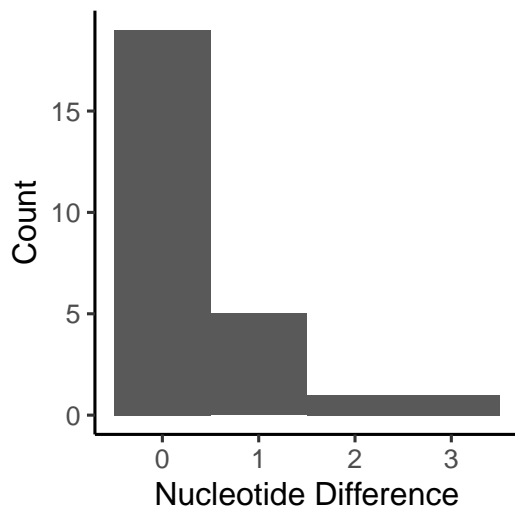
IGHV3-11*06

64 sequences assigned
47 (73.4%) exact matches, in which:
47 unique CDR3
5 unique J



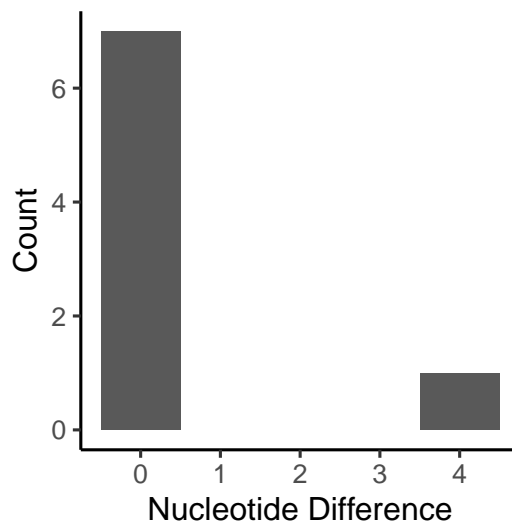
IGHV3-13*04

26 sequences assigned
19 (73.1%) exact matches, in which:
19 unique CDR3
4 unique J



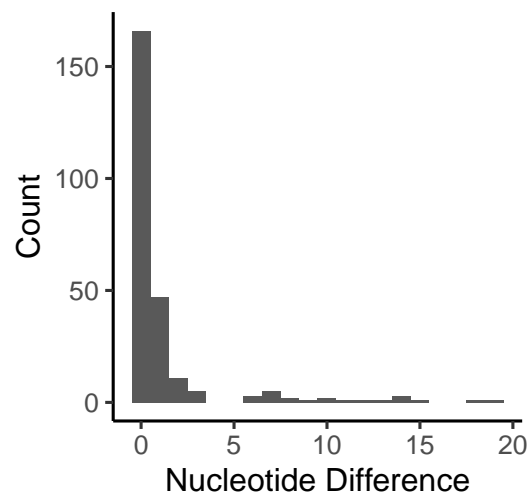
IGHV3-20*01

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
3 unique J



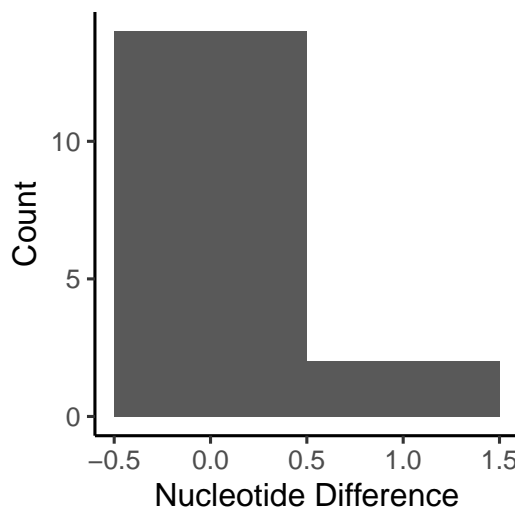
IGHV3-30-3*01

253 sequences assigned
166 (65.6%) exact matches, in which:
166 unique CDR3
6 unique J



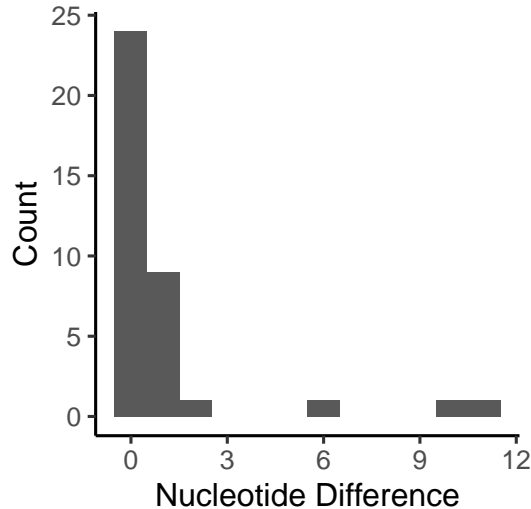
IGHV3-13*05

16 sequences assigned
14 (87.5%) exact matches, in which:
14 unique CDR3
4 unique J



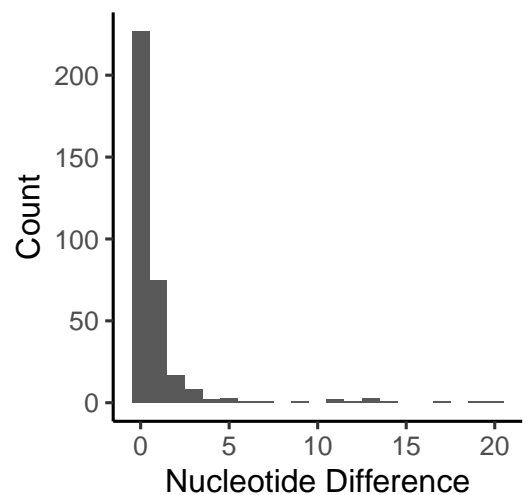
IGHV3-20*04

37 sequences assigned
24 (64.9%) exact matches, in which:
24 unique CDR3
5 unique J



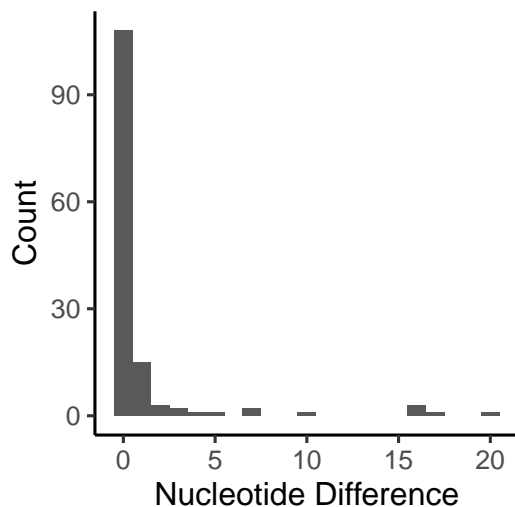
IGHV3-33*01

349 sequences assigned
227 (65%) exact matches, in which:
227 unique CDR3
7 unique J



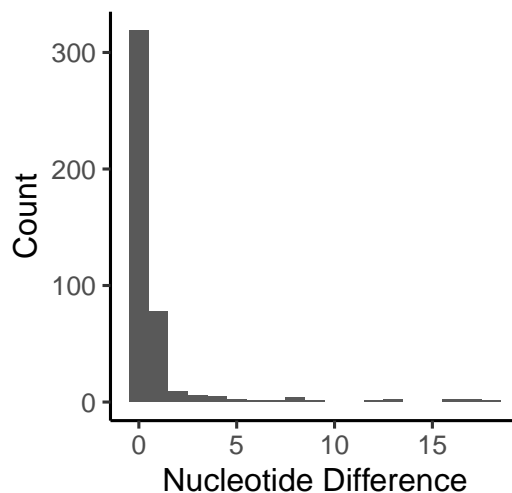
IGHV3-15*01

141 sequences assigned
108 (76.6%) exact matches, in which:
108 unique CDR3
7 unique J



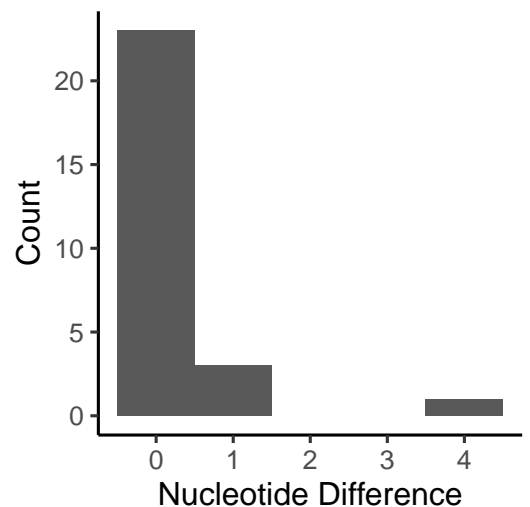
IGHV3-21*01

436 sequences assigned
319 (73.2%) exact matches, in which:
319 unique CDR3
7 unique J



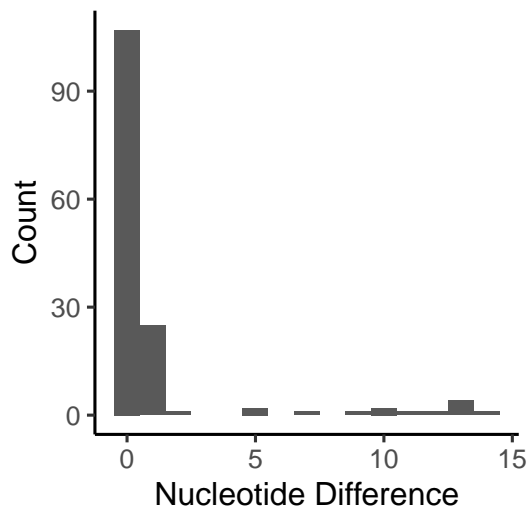
IGHV3-43*01

27 sequences assigned
23 (85.2%) exact matches, in which:
23 unique CDR3
5 unique J



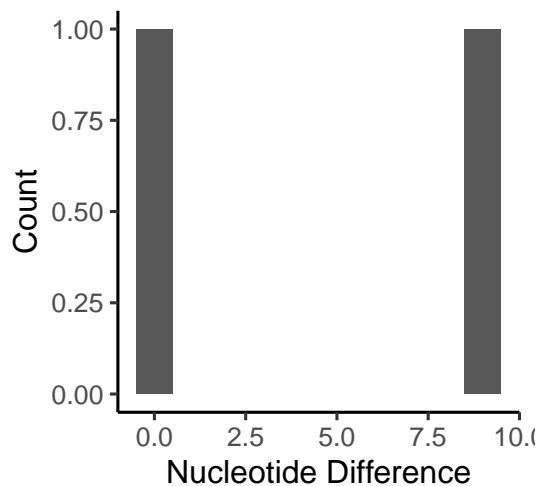
IGHV3-48*02

148 sequences assigned
107 (72.3%) exact matches, in which:
107 unique CDR3
7 unique J



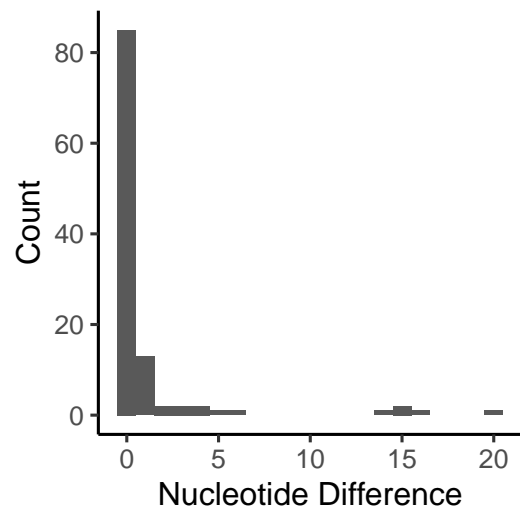
IGHV3-64*02

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



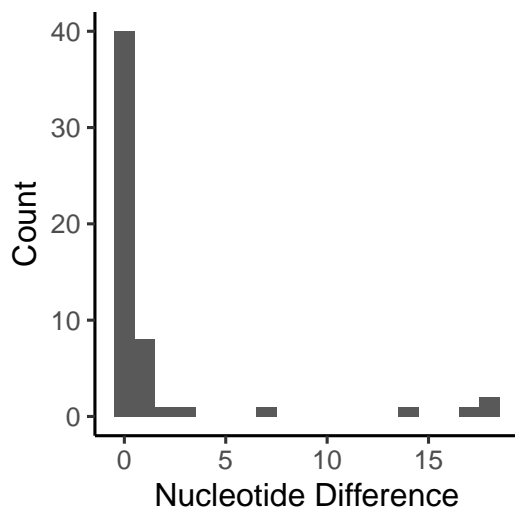
IGHV3-74*01

112 sequences assigned
85 (75.9%) exact matches, in which:
85 unique CDR3
6 unique J



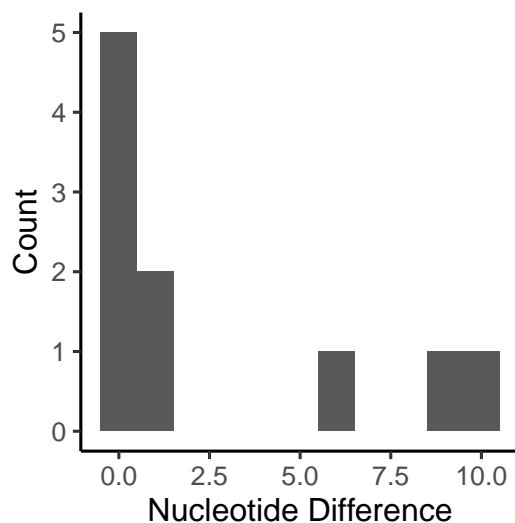
IGHV3-49*05

55 sequences assigned
40 (72.7%) exact matches, in which:
40 unique CDR3
7 unique J



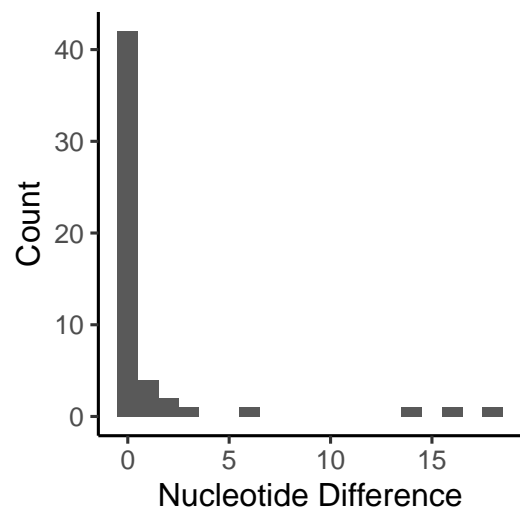
IGHV3-72*01

11 sequences assigned
5 (45.5%) exact matches, in which:
5 unique CDR3
3 unique J



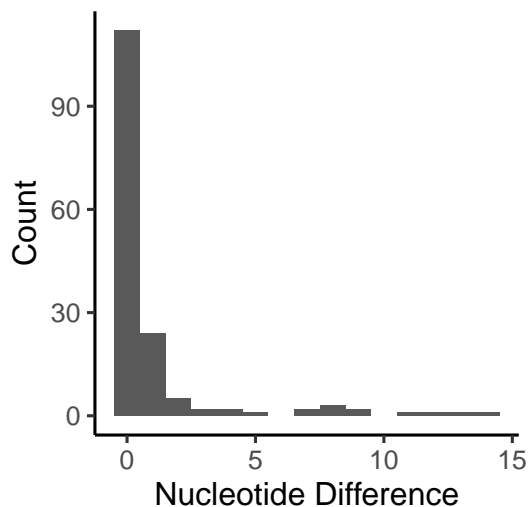
IGHV3-64D*06

55 sequences assigned
42 (76.4%) exact matches, in which:
42 unique CDR3
7 unique J



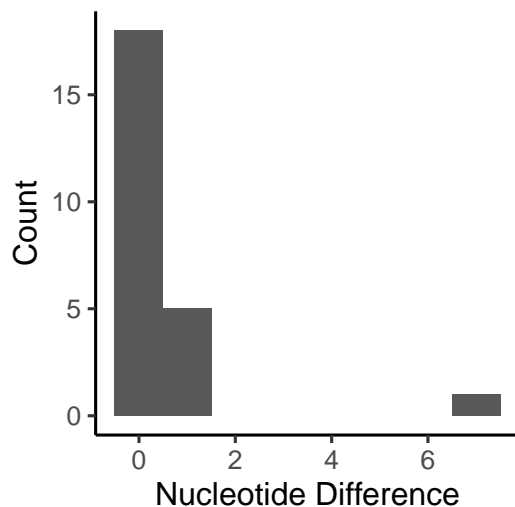
IGHV3-53*01

158 sequences assigned
112 (70.9%) exact matches, in which:
112 unique CDR3
6 unique J



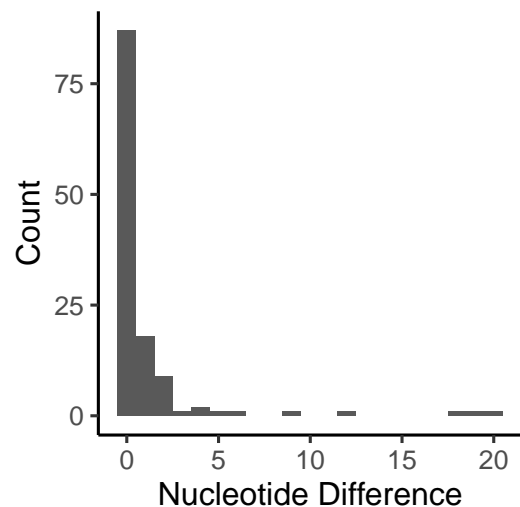
IGHV3-73*02

24 sequences assigned
18 (75%) exact matches, in which:
18 unique CDR3
5 unique J



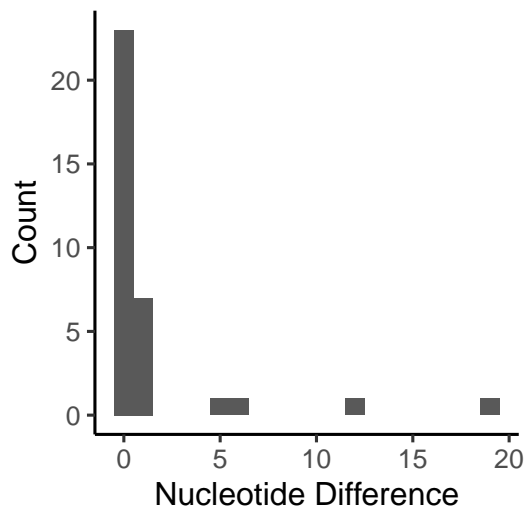
IGHV4-4*02

126 sequences assigned
87 (69%) exact matches, in which:
87 unique CDR3
7 unique J



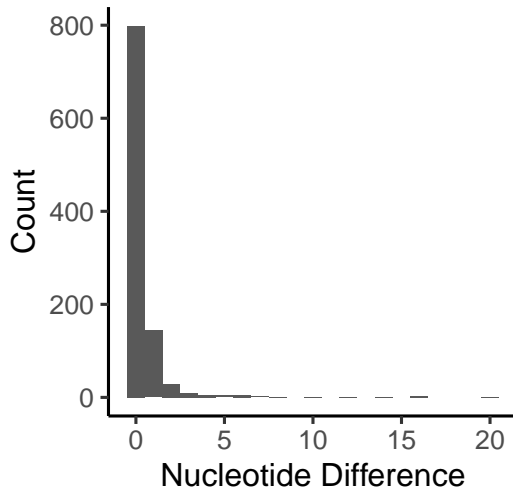
IGHV4-30-2*01

36 sequences assigned
23 (63.9%) exact matches, in which:
23 unique CDR3
7 unique J



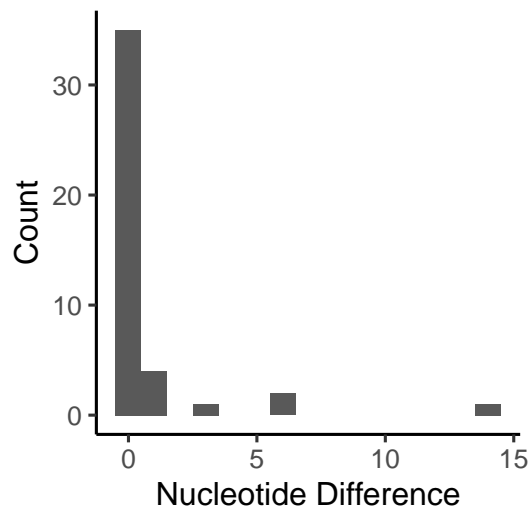
IGHV4-34*01

1011 sequences assigned
799 (79%) exact matches, in which:
798 unique CDR3
7 unique J



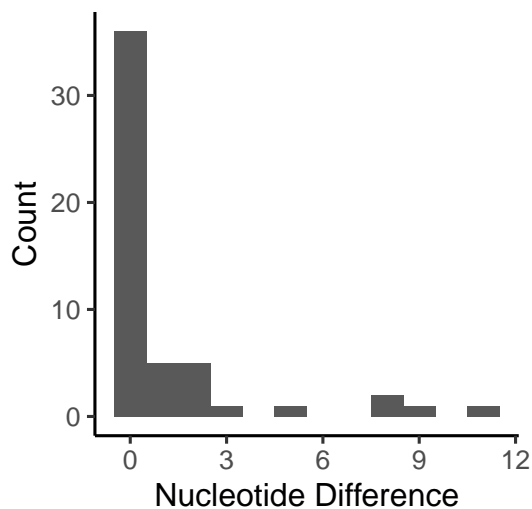
IGHV4-61*01

44 sequences assigned
35 (79.5%) exact matches, in which:
35 unique CDR3
6 unique J



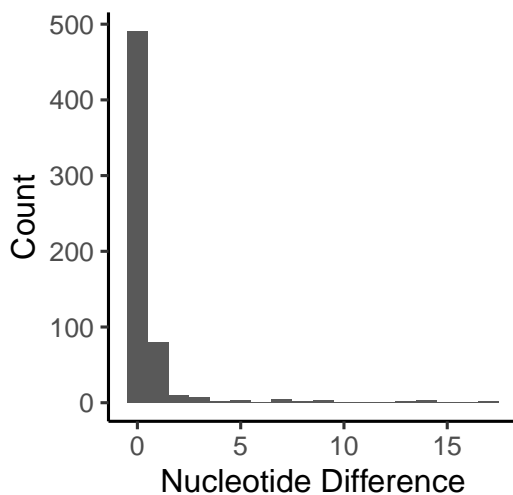
IGHV4-30-4*01

52 sequences assigned
36 (69.2%) exact matches, in which:
36 unique CDR3
6 unique J



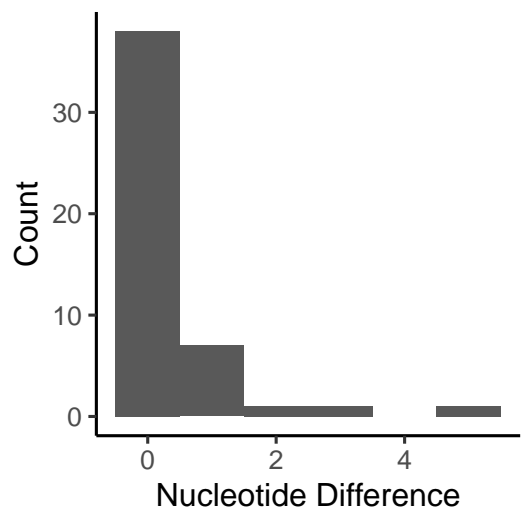
IGHV4-39*01

622 sequences assigned
491 (78.9%) exact matches, in which:
491 unique CDR3
7 unique J



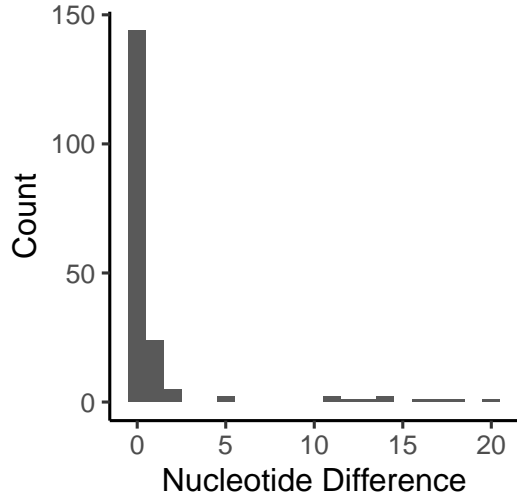
IGHV5-10-1*01

48 sequences assigned
38 (79.2%) exact matches, in which:
38 unique CDR3
6 unique J



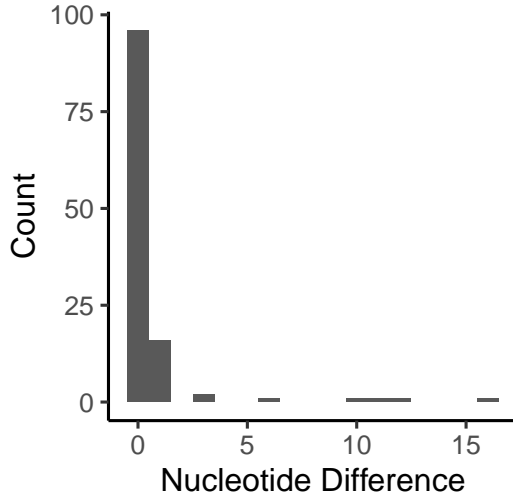
IGHV4-31*03

186 sequences assigned
144 (77.4%) exact matches, in which:
144 unique CDR3
6 unique J



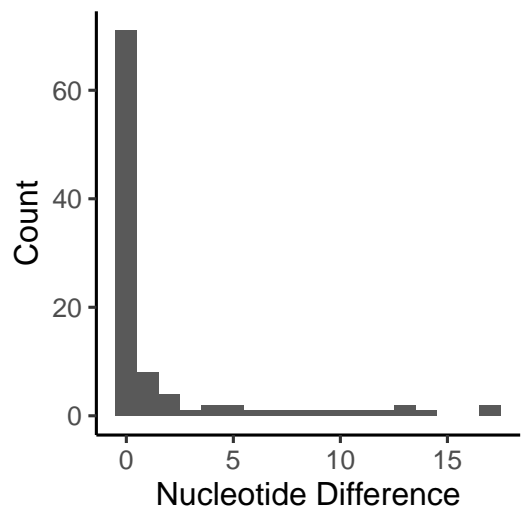
IGHV4-59*01

125 sequences assigned
96 (76.8%) exact matches, in which:
96 unique CDR3
7 unique J



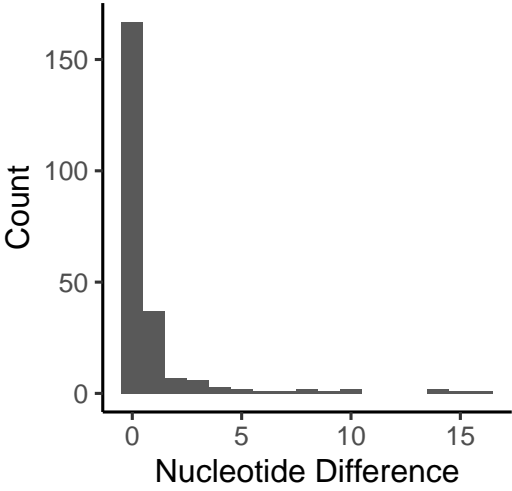
IGHV5-10-1*03

101 sequences assigned
71 (70.3%) exact matches, in which:
71 unique CDR3
6 unique J



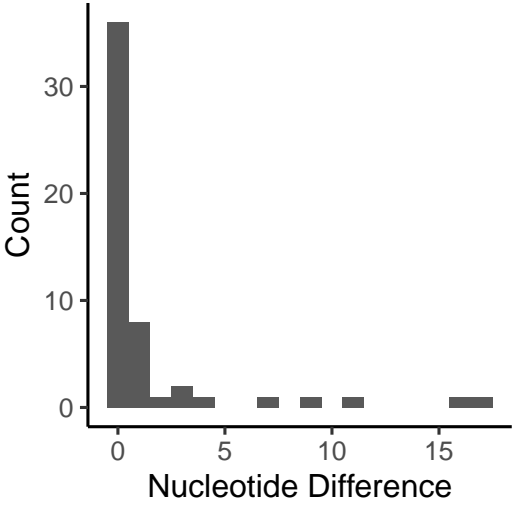
IGHV5-51*01

233 sequences assigned
167 (71.7%) exact matches, in which:
167 unique CDR3
7 unique J



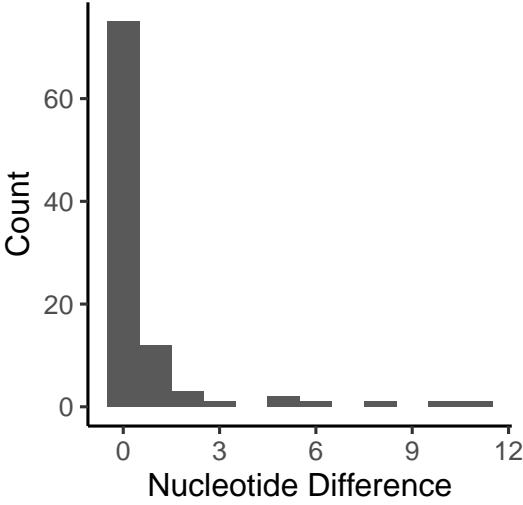
IGHV6-1*01

54 sequences assigned
36 (66.7%) exact matches, in which:
36 unique CDR3
6 unique J

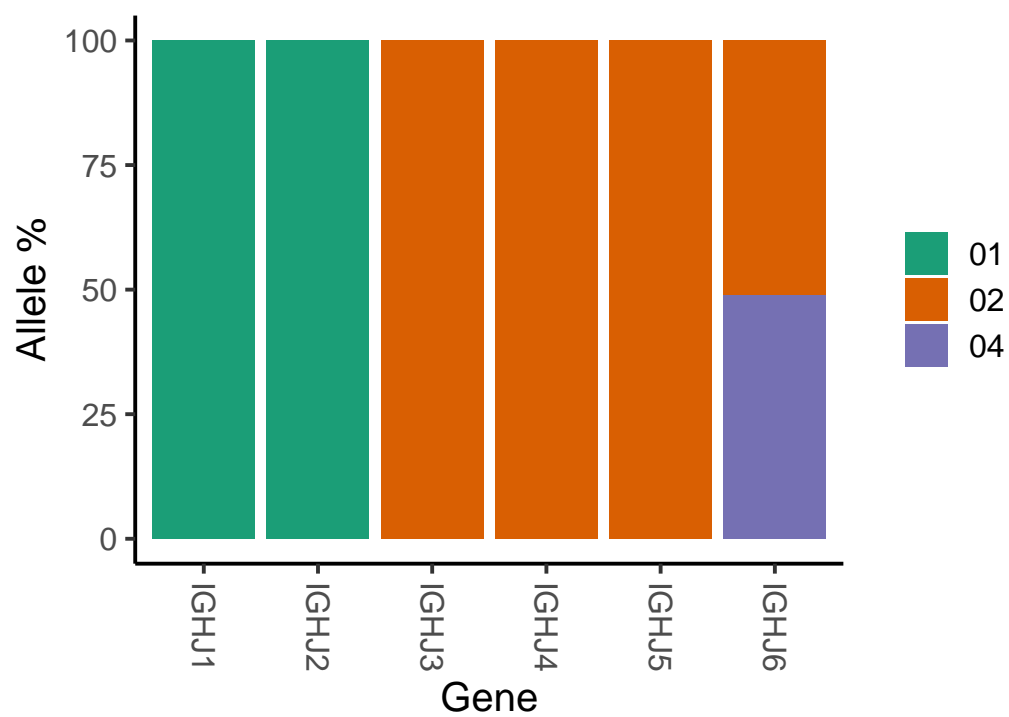


IGHV7-4-1*02

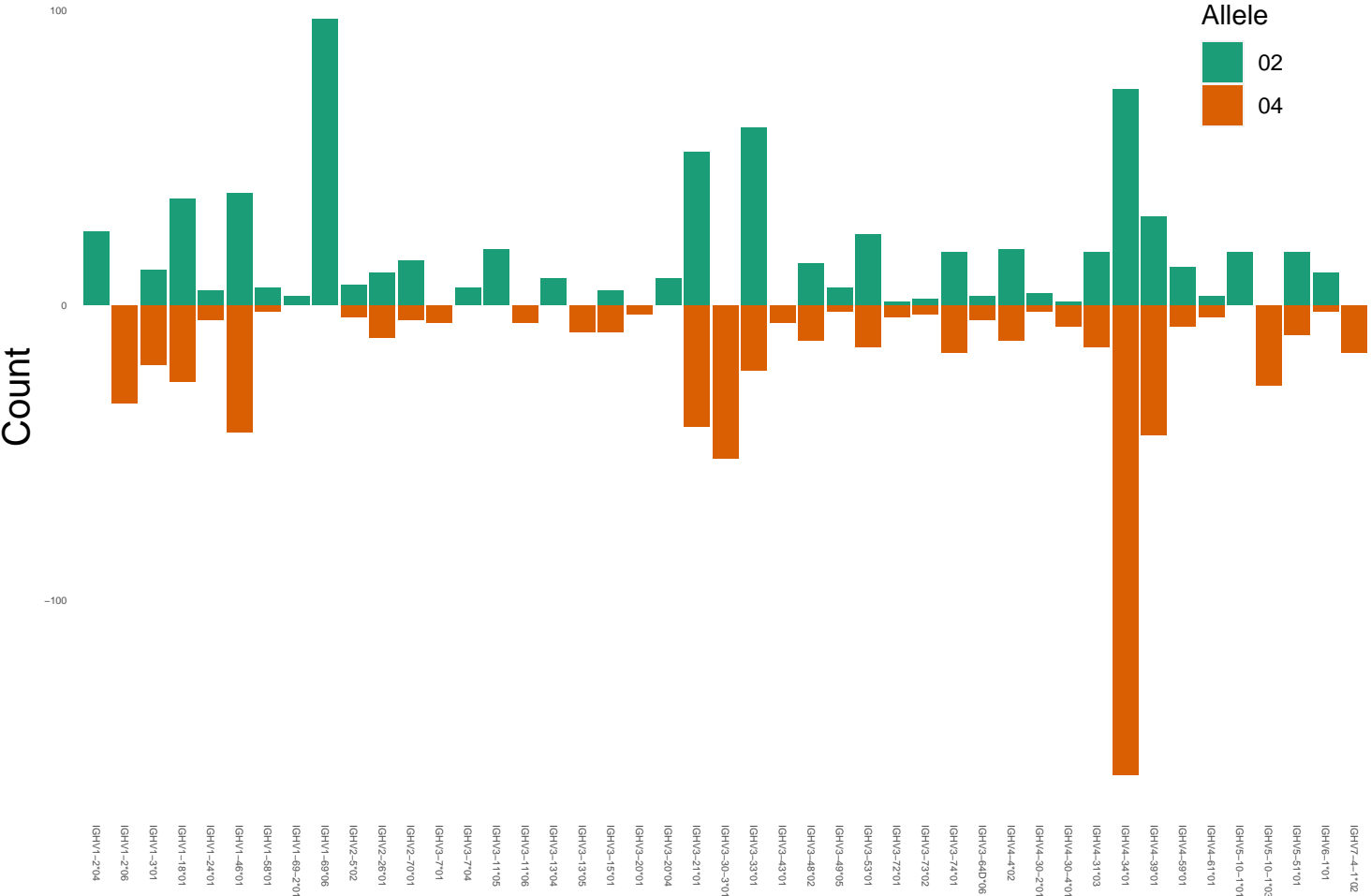
98 sequences assigned
75 (76.5%) exact matches, in which:
75 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.