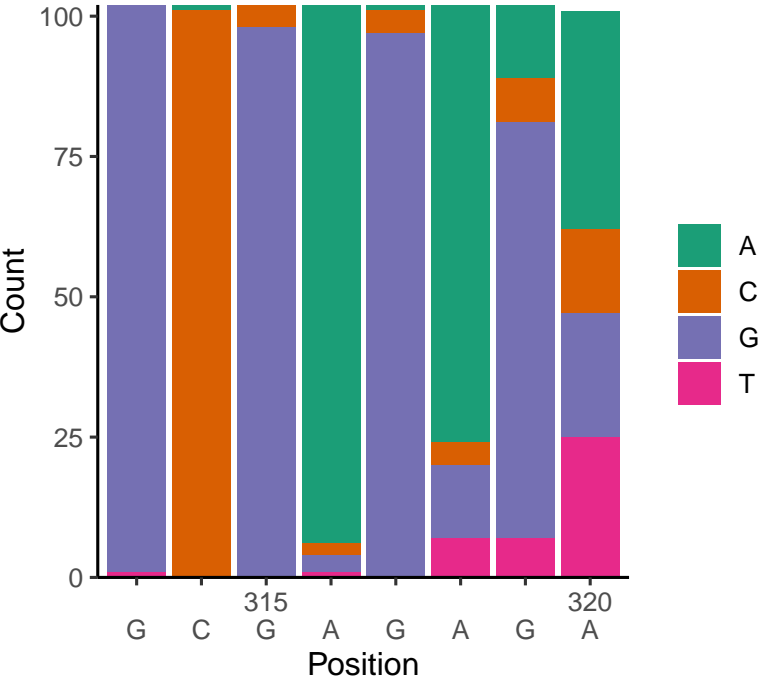


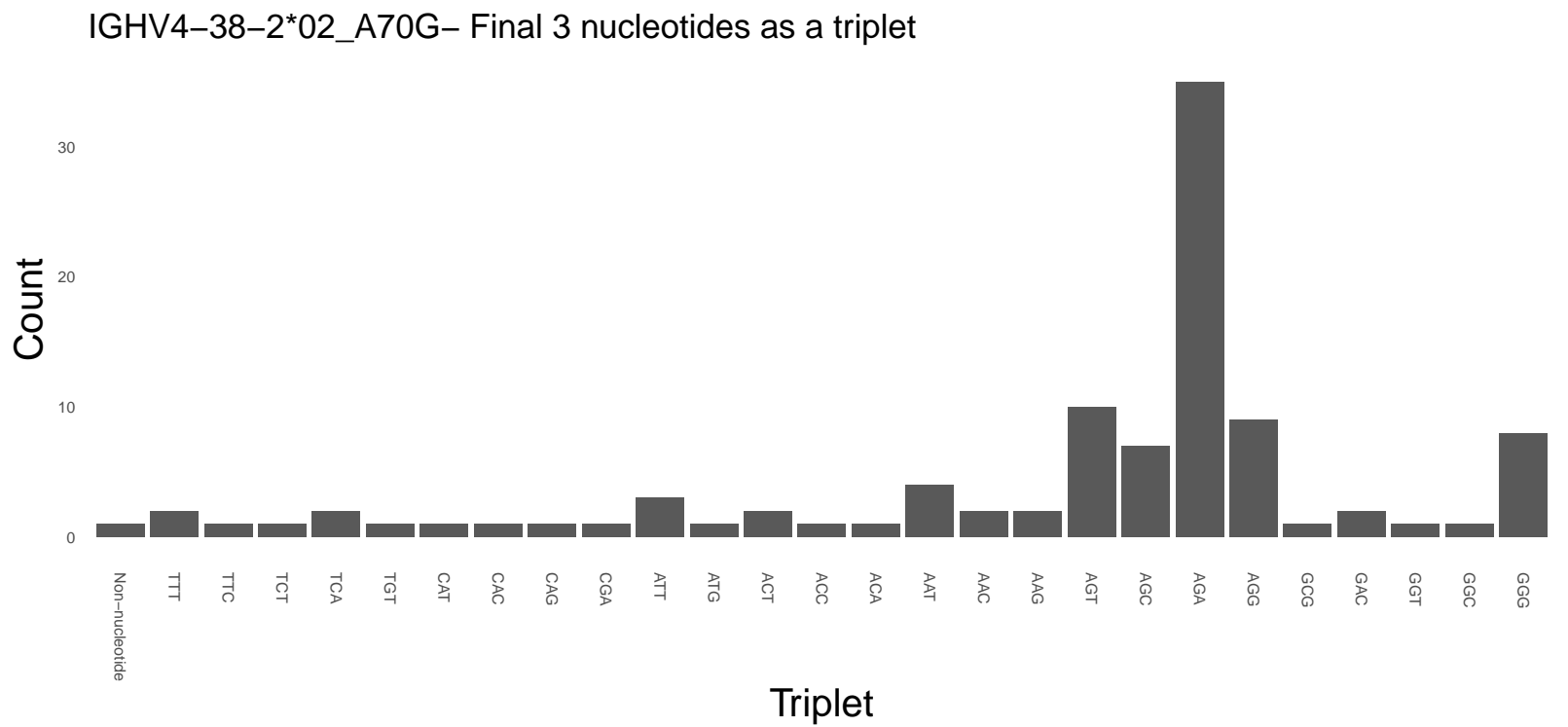
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

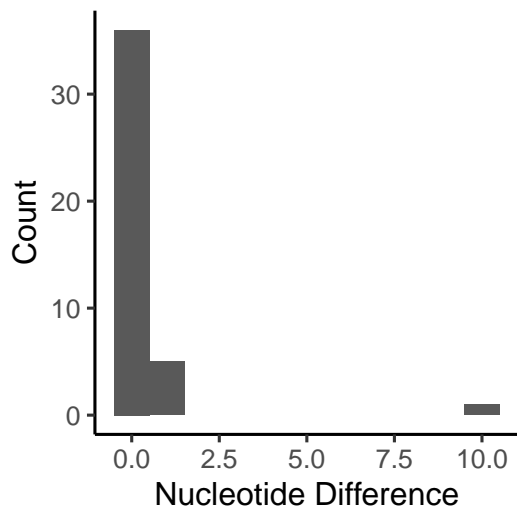


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



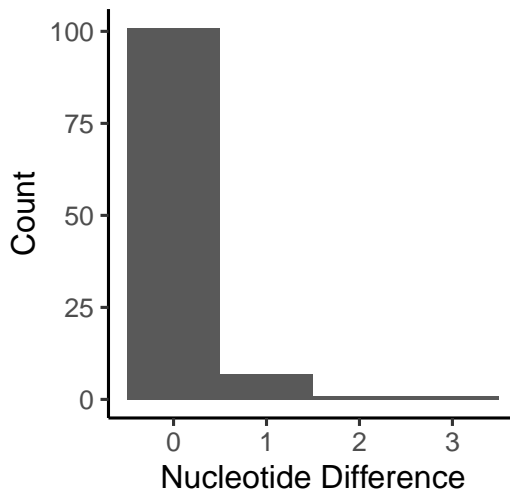
IGHV1-2*04

42 sequences assigned
36 (85.7%) exact matches, in which:
36 unique CDR3
5 unique J



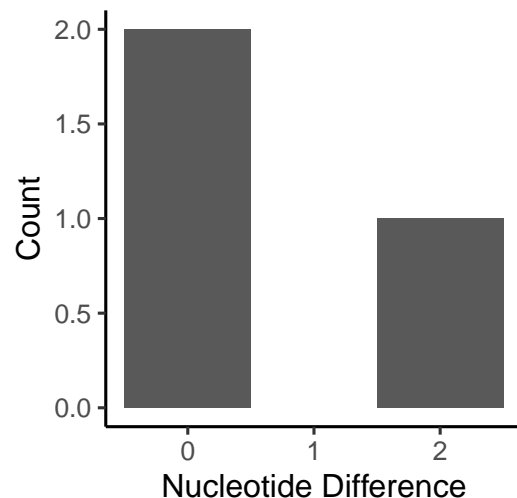
IGHV1-8*01

110 sequences assigned
101 (91.8%) exact matches, in which:
101 unique CDR3
5 unique J



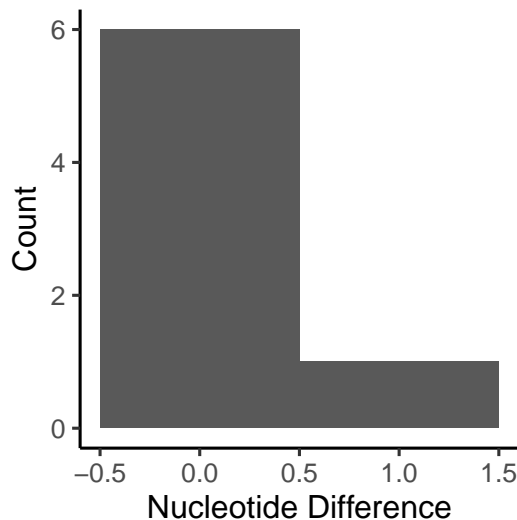
IGHV1-45*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



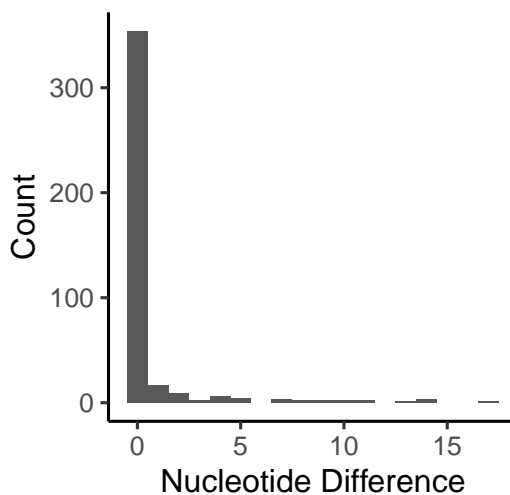
IGHV1-2*05

7 sequences assigned
6 (85.7%) exact matches, in which:
6 unique CDR3
3 unique J



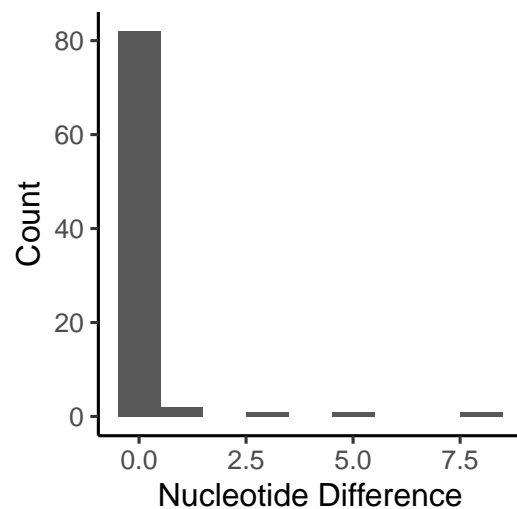
IGHV1-18*01

408 sequences assigned
354 (86.8%) exact matches, in which:
352 unique CDR3
7 unique J



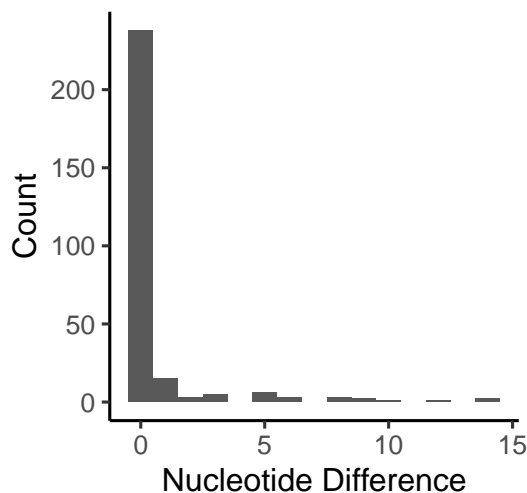
IGHV1-46*01

87 sequences assigned
82 (94.3%) exact matches, in which:
82 unique CDR3
7 unique J



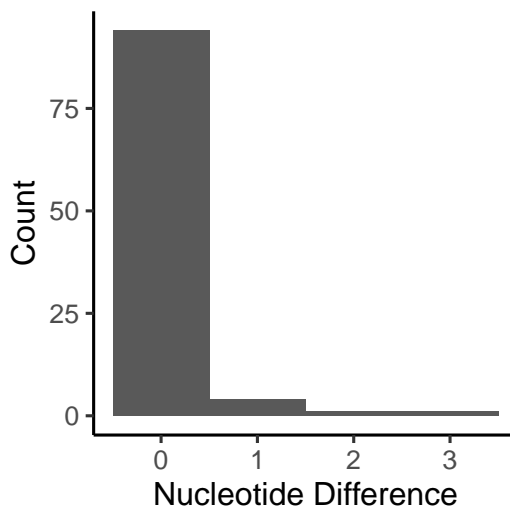
IGHV1-3*01

281 sequences assigned
238 (84.7%) exact matches, in which:
238 unique CDR3
7 unique J



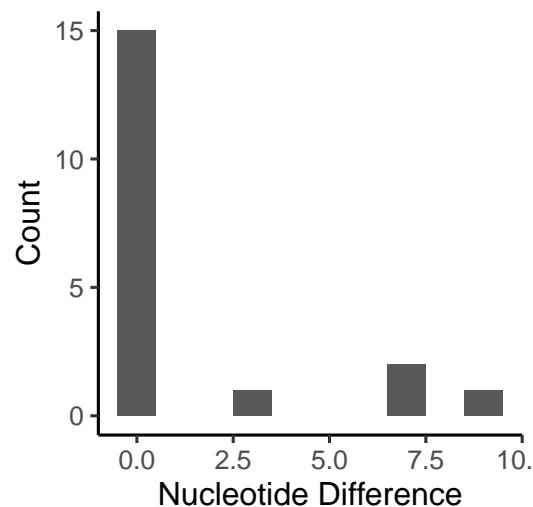
IGHV1-24*01

101 sequences assigned
94 (93.1%) exact matches, in which:
94 unique CDR3
7 unique J



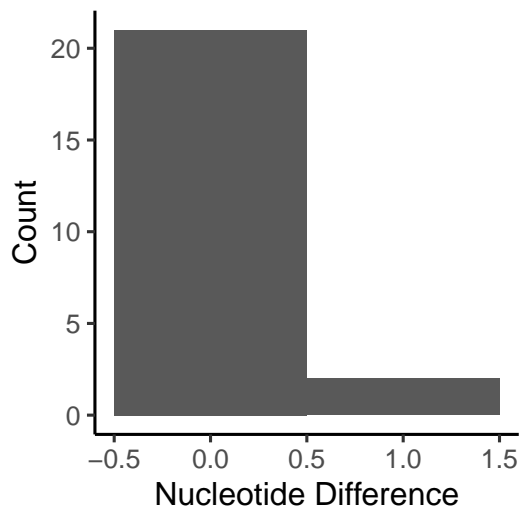
IGHV1-58*01

20 sequences assigned
15 (75%) exact matches, in which:
15 unique CDR3
5 unique J



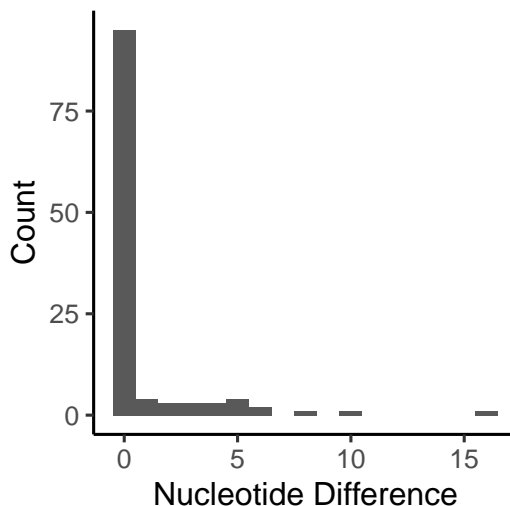
IGHV1-69-2*01

23 sequences assigned
21 (91.3%) exact matches, in which:
21 unique CDR3
5 unique J



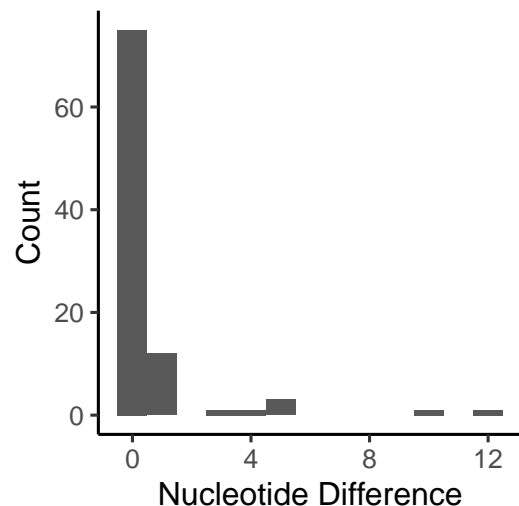
IGHV2-5*02

117 sequences assigned
95 (81.2%) exact matches, in which:
95 unique CDR3
6 unique J



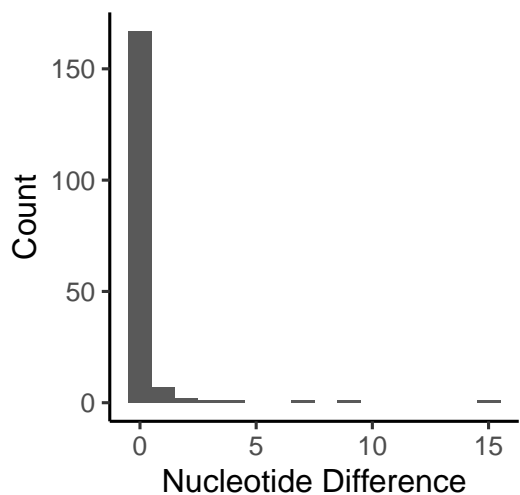
IGHV3-7*01

95 sequences assigned
75 (78.9%) exact matches, in which:
75 unique CDR3
5 unique J



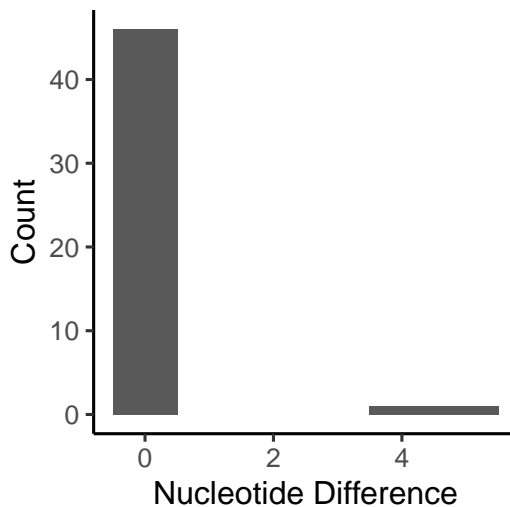
IGHV1-69*06

181 sequences assigned
167 (92.3%) exact matches, in which:
166 unique CDR3
6 unique J



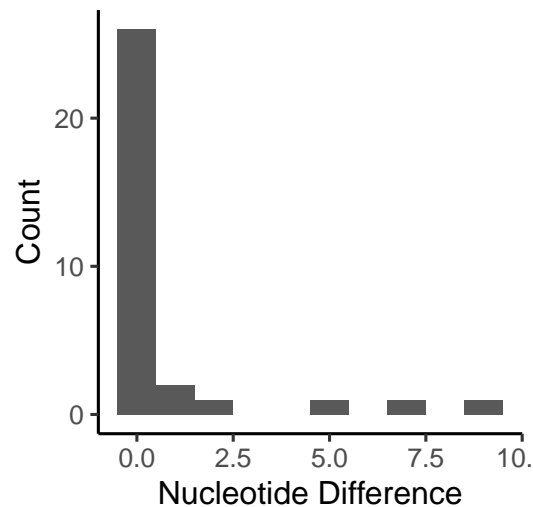
IGHV2-26*01

48 sequences assigned
46 (95.8%) exact matches, in which:
46 unique CDR3
6 unique J



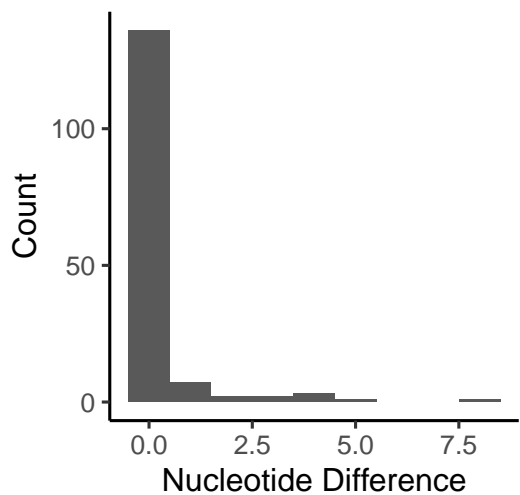
IGHV3-7*04

33 sequences assigned
26 (78.8%) exact matches, in which:
26 unique CDR3
4 unique J



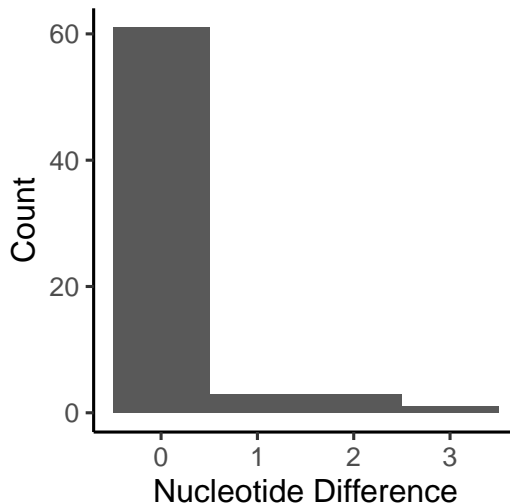
IGHV2-5*01

152 sequences assigned
136 (89.5%) exact matches, in which:
136 unique CDR3
6 unique J



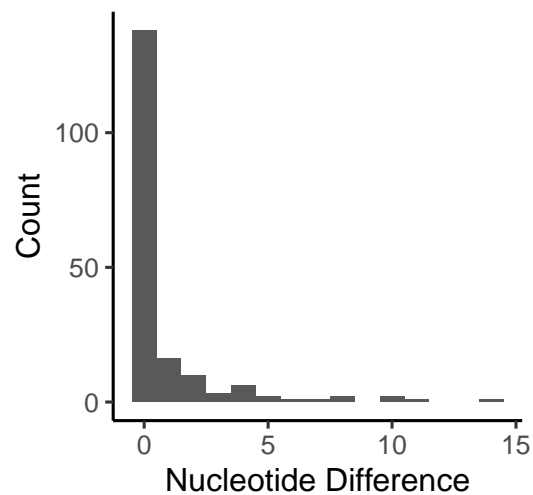
IGHV2-70*01

69 sequences assigned
61 (88.4%) exact matches, in which:
61 unique CDR3
6 unique J



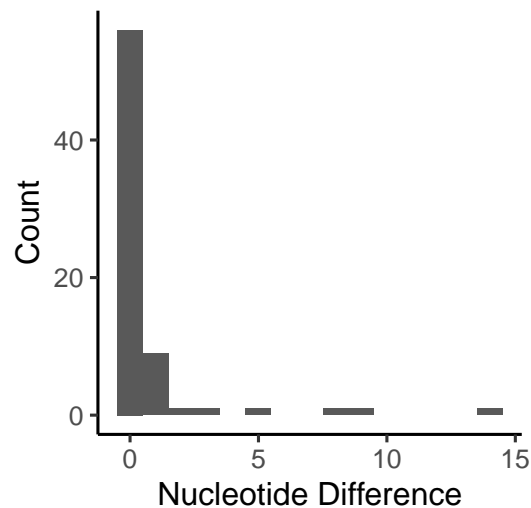
IGHV3-9*01

185 sequences assigned
138 (74.6%) exact matches, in which:
138 unique CDR3
6 unique J



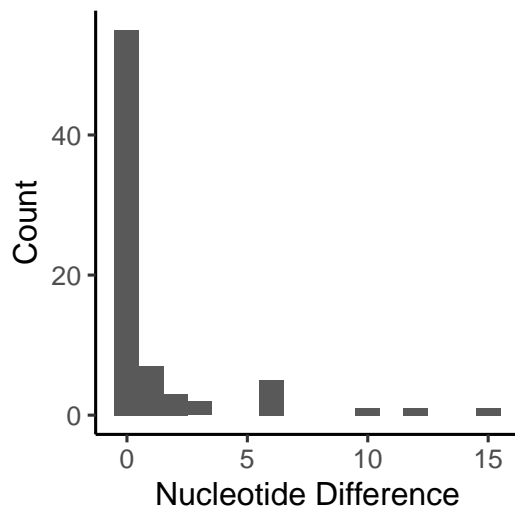
IGHV3-11*01

71 sequences assigned
56 (78.9%) exact matches, in which:
56 unique CDR3
5 unique J



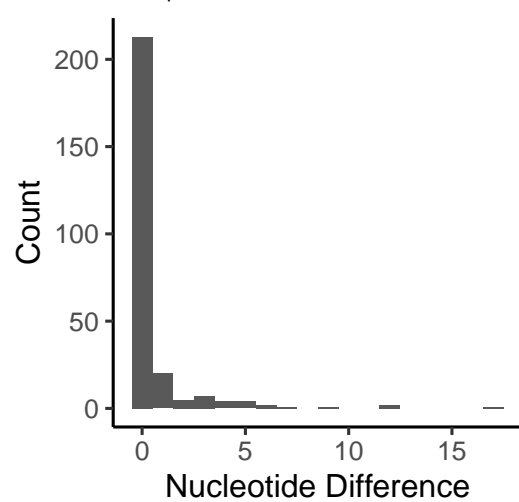
IGHV3-15*01

75 sequences assigned
55 (73.3%) exact matches, in which:
54 unique CDR3
6 unique J



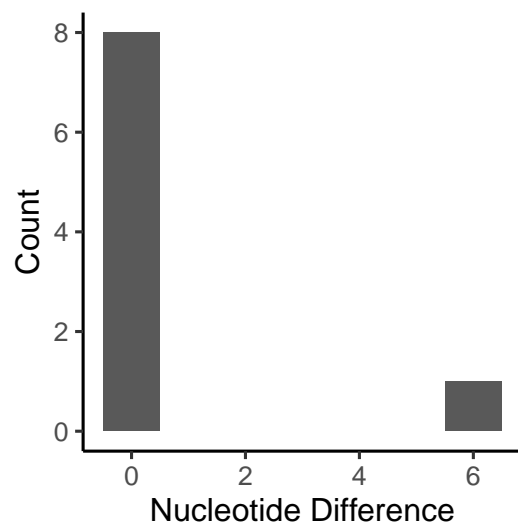
IGHV3-21*01

260 sequences assigned
213 (81.9%) exact matches, in which:
213 unique CDR3
7 unique J



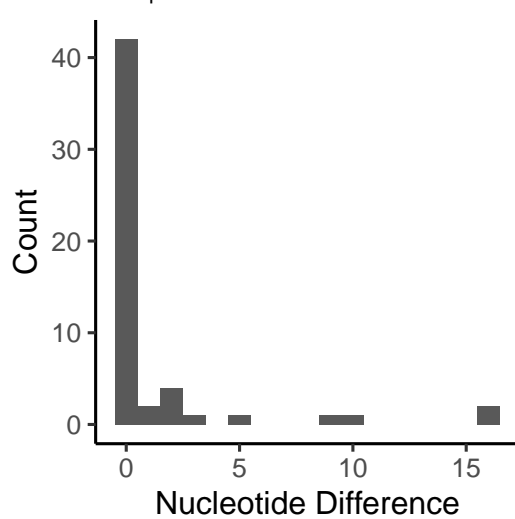
IGHV3-11*06

9 sequences assigned
8 (88.9%) exact matches, in which:
8 unique CDR3
4 unique J



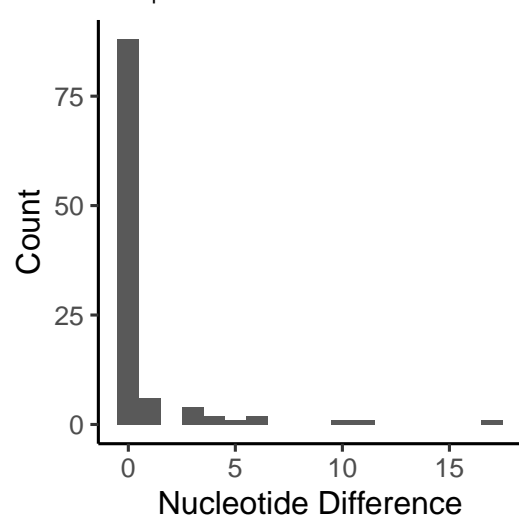
IGHV3-15*07

54 sequences assigned
42 (77.8%) exact matches, in which:
42 unique CDR3
5 unique J



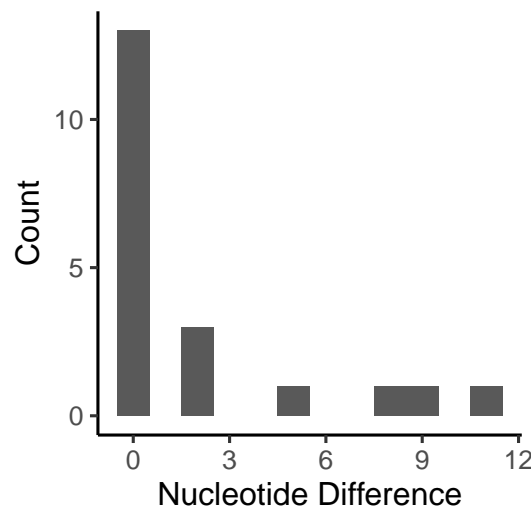
IGHV3-30*01

106 sequences assigned
88 (83%) exact matches, in which:
87 unique CDR3
4 unique J



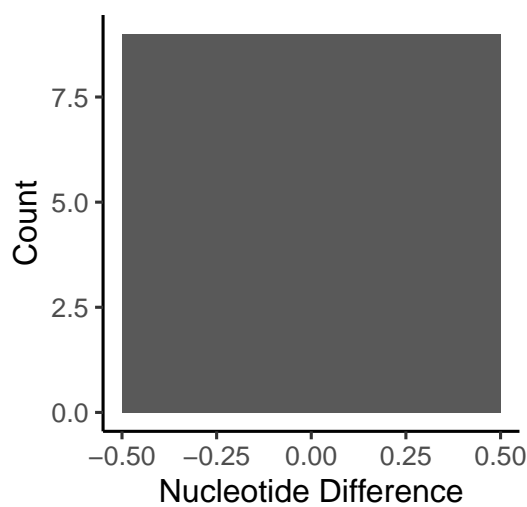
IGHV3-13*01

20 sequences assigned
13 (65%) exact matches, in which:
13 unique CDR3
3 unique J



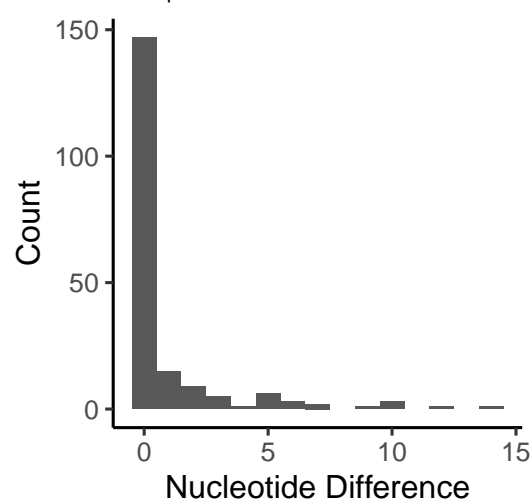
IGHV3-20*01

9 sequences assigned
9 (100%) exact matches, in which:
9 unique CDR3
5 unique J



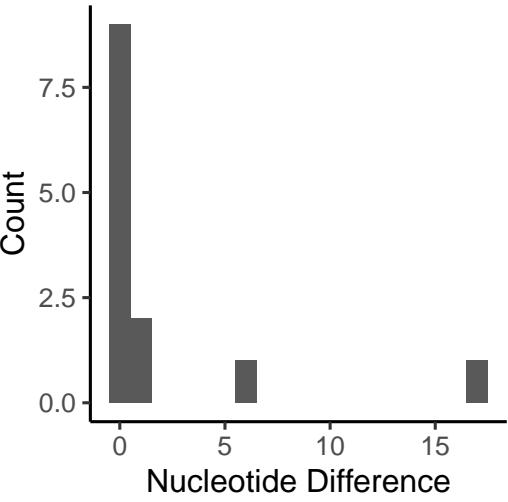
IGHV3-33*01

195 sequences assigned
147 (75.4%) exact matches, in which:
147 unique CDR3
7 unique J



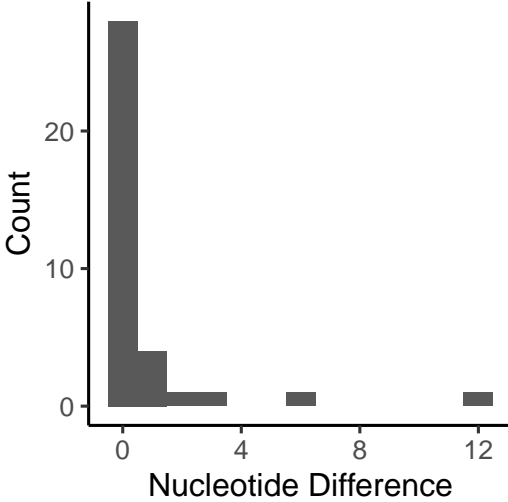
IGHV3-43*01

13 sequences assigned
9 (69.2%) exact matches, in which:
9 unique CDR3
3 unique J



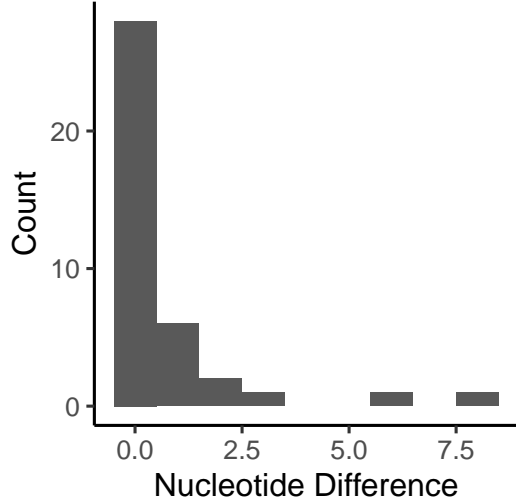
IGHV3-49*04

36 sequences assigned
28 (77.8%) exact matches, in which:
28 unique CDR3
5 unique J



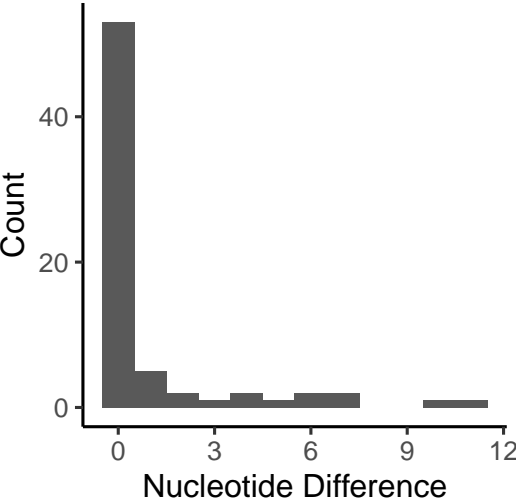
IGHV3-53*02

39 sequences assigned
28 (71.8%) exact matches, in which:
28 unique CDR3
5 unique J



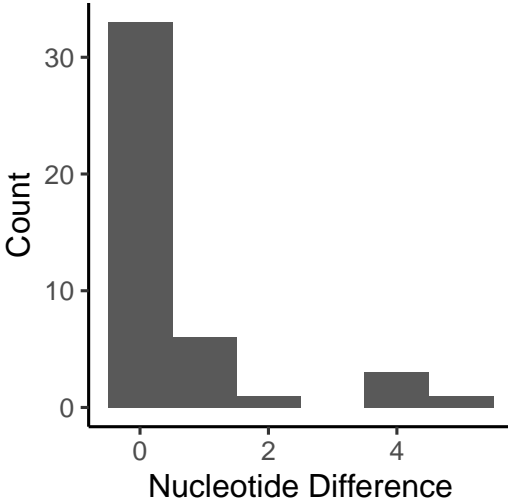
IGHV3-48*02

70 sequences assigned
53 (75.7%) exact matches, in which:
53 unique CDR3
5 unique J



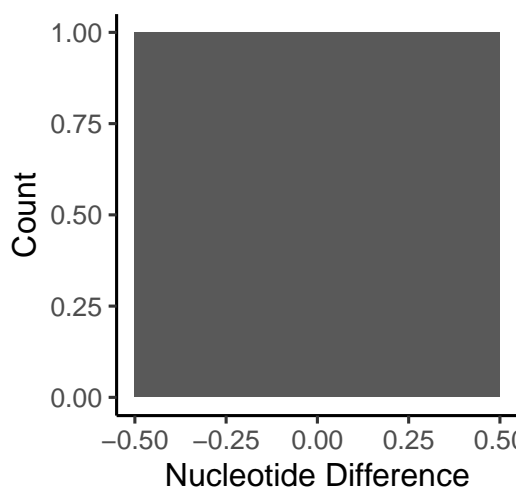
IGHV3-49*05

45 sequences assigned
33 (73.3%) exact matches, in which:
33 unique CDR3
5 unique J



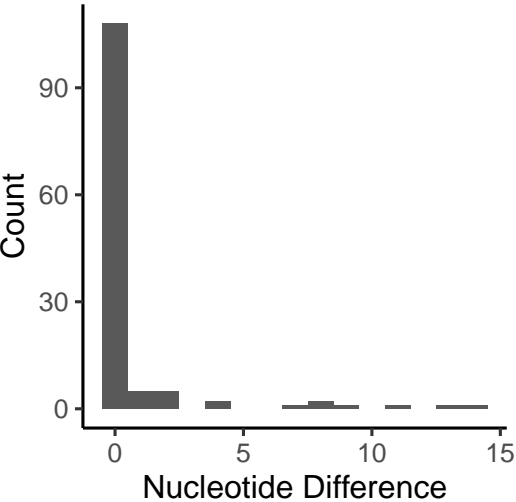
IGHV3-66*03

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



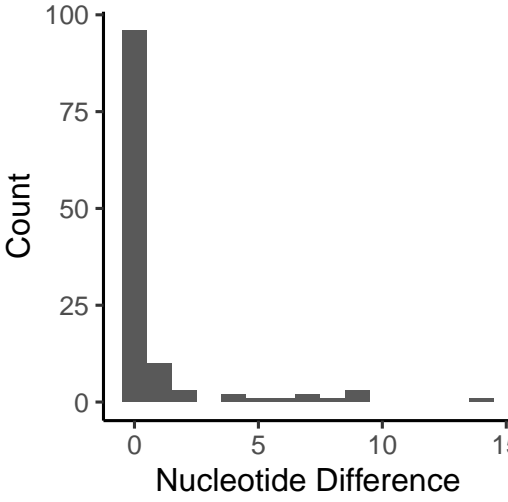
IGHV3-48*03

127 sequences assigned
108 (85%) exact matches, in which:
108 unique CDR3
6 unique J



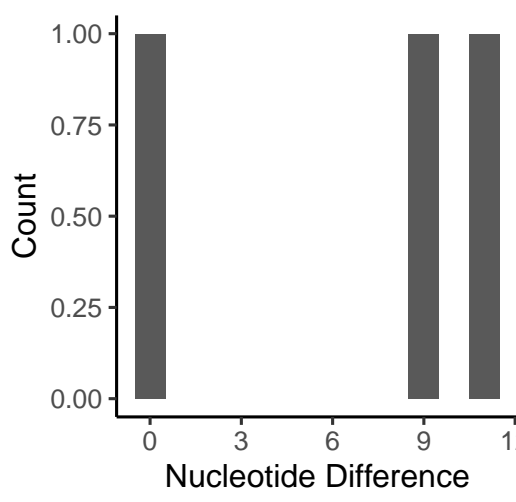
IGHV3-53*01

121 sequences assigned
96 (79.3%) exact matches, in which:
96 unique CDR3
7 unique J



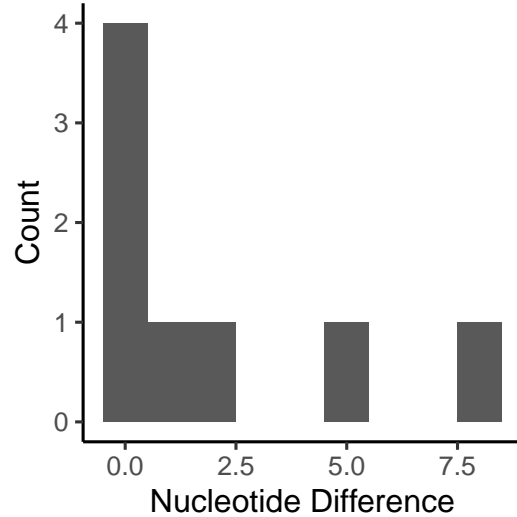
IGHV3-69-1*01

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



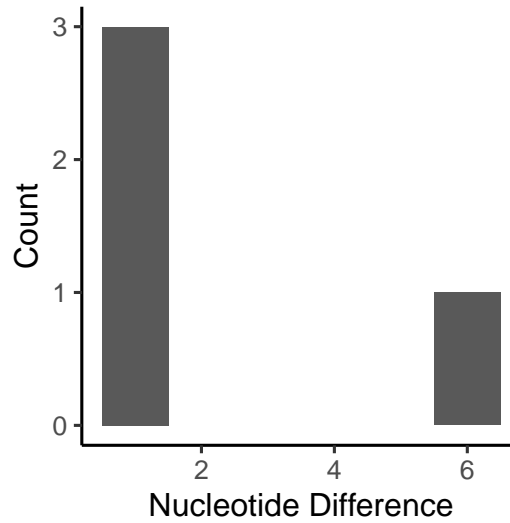
IGHV3-72*01

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



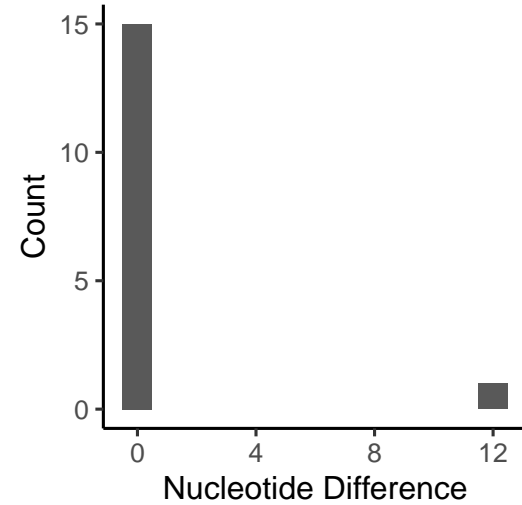
IGHV3-43D*04

4 sequences assigned
No exact matches.



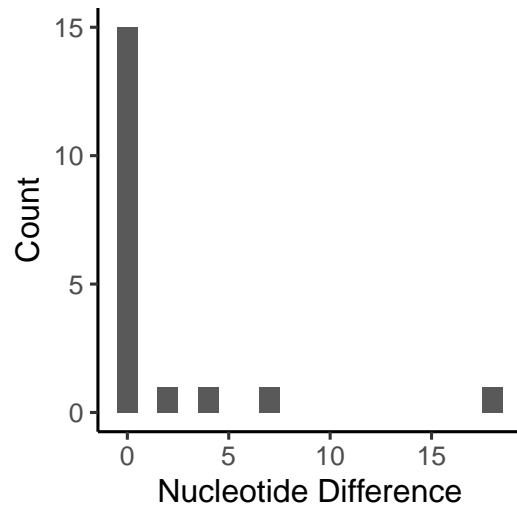
IGHV4-31*01

16 sequences assigned
15 (93.8%) exact matches, in which:
15 unique CDR3
5 unique J



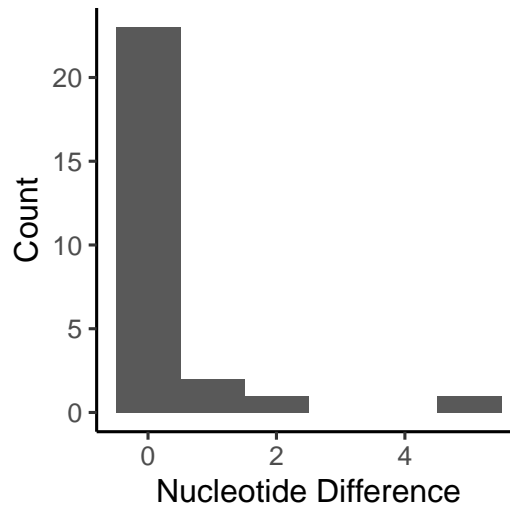
IGHV3-73*02

20 sequences assigned
15 (75%) exact matches, in which:
15 unique CDR3
5 unique J



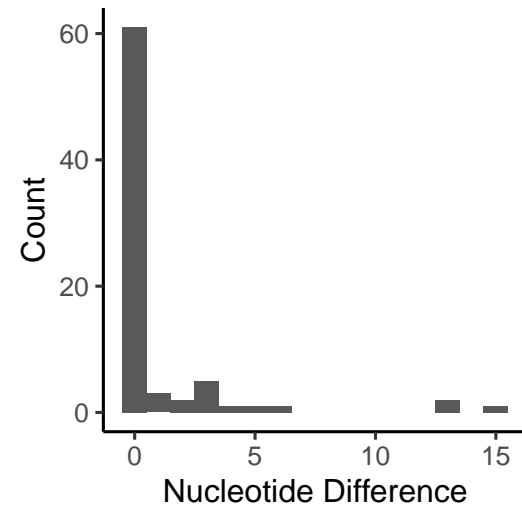
IGHV3-64D*06

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



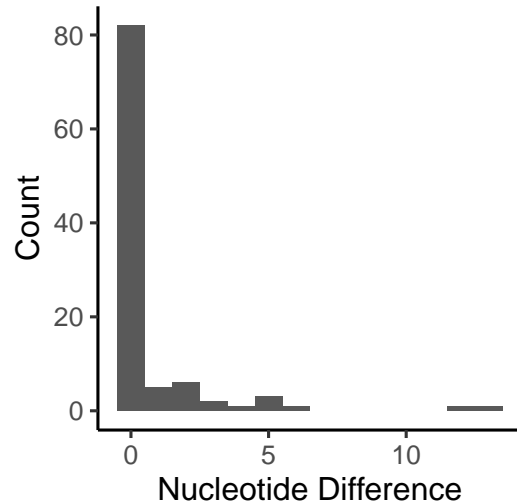
IGHV4-31*03

77 sequences assigned
61 (79.2%) exact matches, in which:
61 unique CDR3
7 unique J



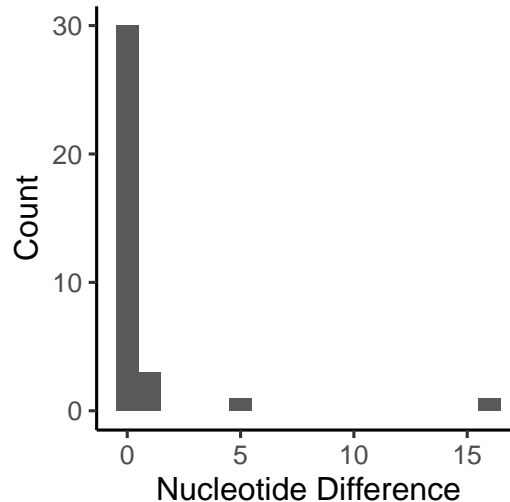
IGHV3-74*01

102 sequences assigned
82 (80.4%) exact matches, in which:
82 unique CDR3
6 unique J



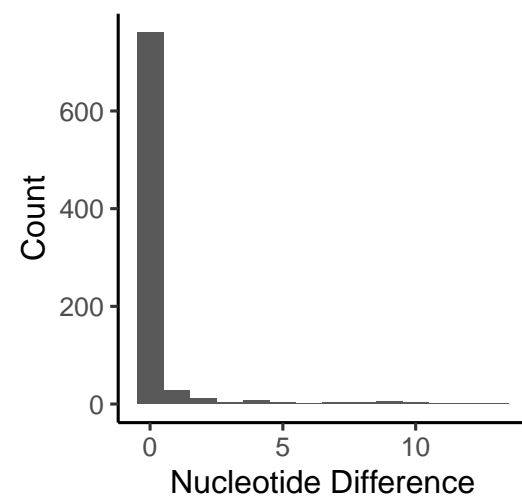
IGHV4-4*02

35 sequences assigned
30 (85.7%) exact matches, in which:
30 unique CDR3
4 unique J



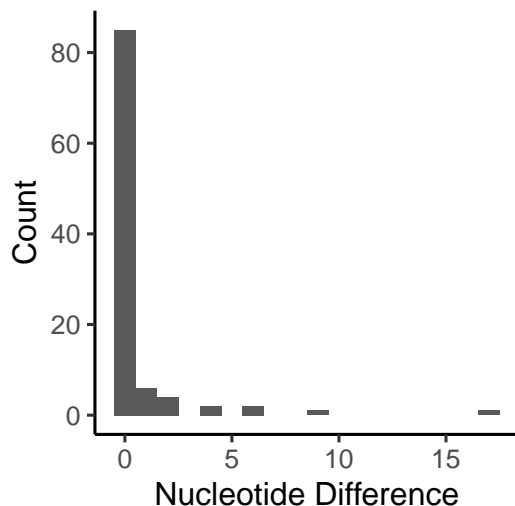
IGHV4-34*01

840 sequences assigned
761 (90.6%) exact matches, in which:
761 unique CDR3
7 unique J



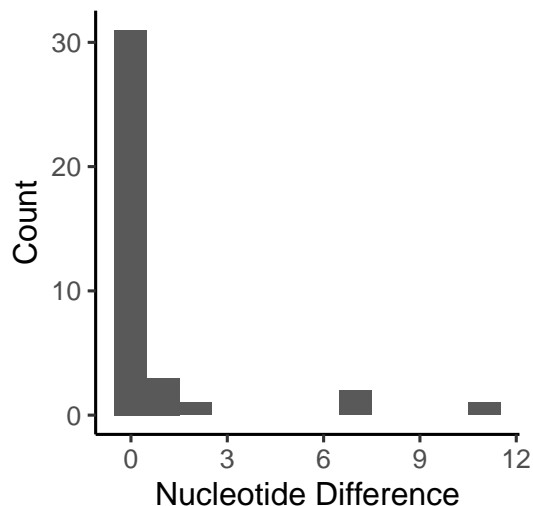
IGHV4-38-2*02_A70G

102 sequences assigned
85 (83.3%) exact matches, in which:
85 unique CDR3
6 unique J



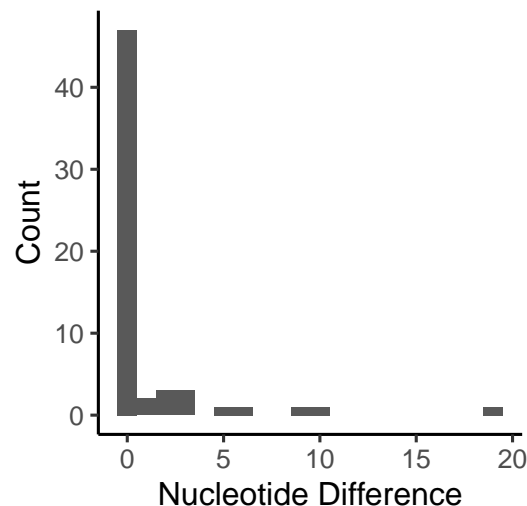
IGHV4-61*01

38 sequences assigned
31 (81.6%) exact matches, in which:
31 unique CDR3
6 unique J



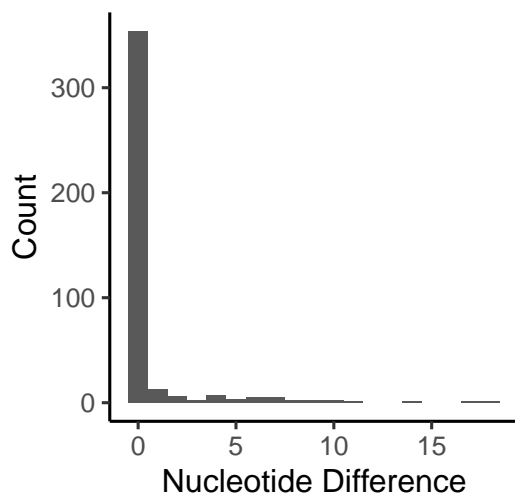
IGHV6-1*01

61 sequences assigned
47 (77%) exact matches, in which:
47 unique CDR3
6 unique J



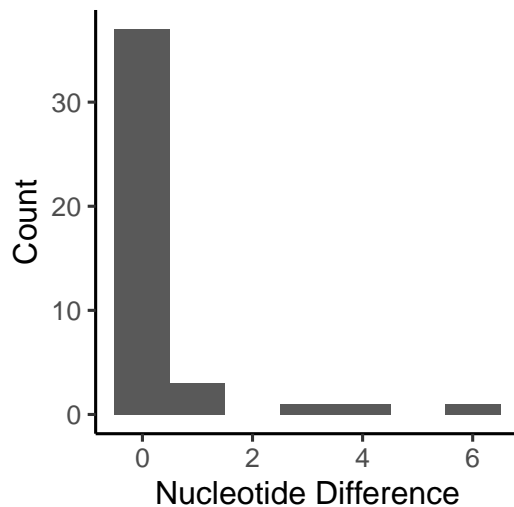
IGHV4-39*01

408 sequences assigned
354 (86.8%) exact matches, in which:
353 unique CDR3
7 unique J



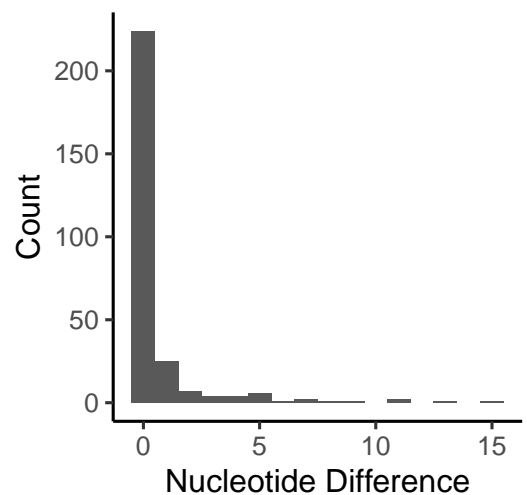
IGHV5-10-1*03

43 sequences assigned
37 (86%) exact matches, in which:
37 unique CDR3
4 unique J



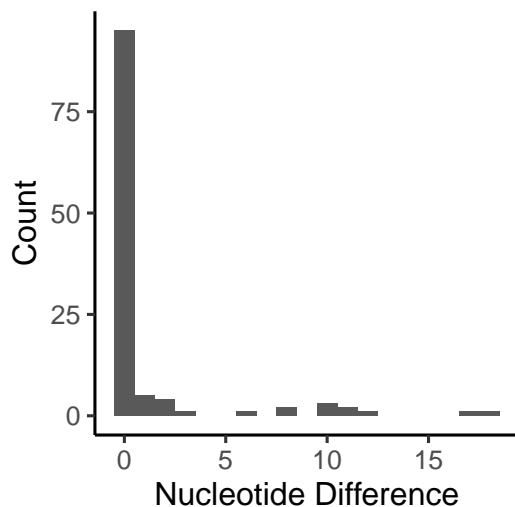
IGHV7-4-1*02

280 sequences assigned
224 (80%) exact matches, in which:
224 unique CDR3
7 unique J



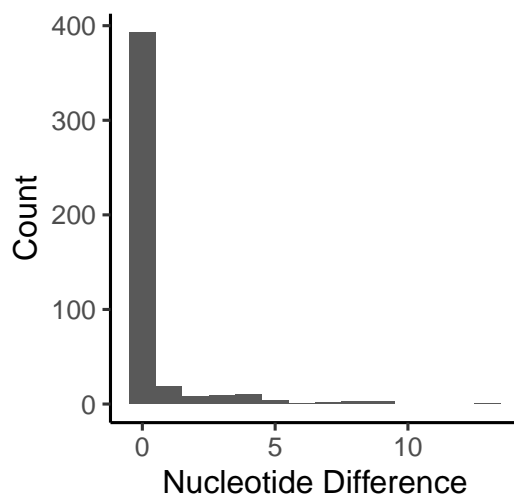
IGHV4-59*01

116 sequences assigned
95 (81.9%) exact matches, in which:
95 unique CDR3
6 unique J

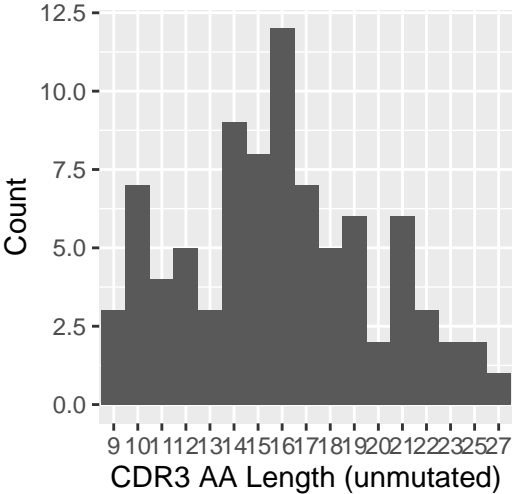


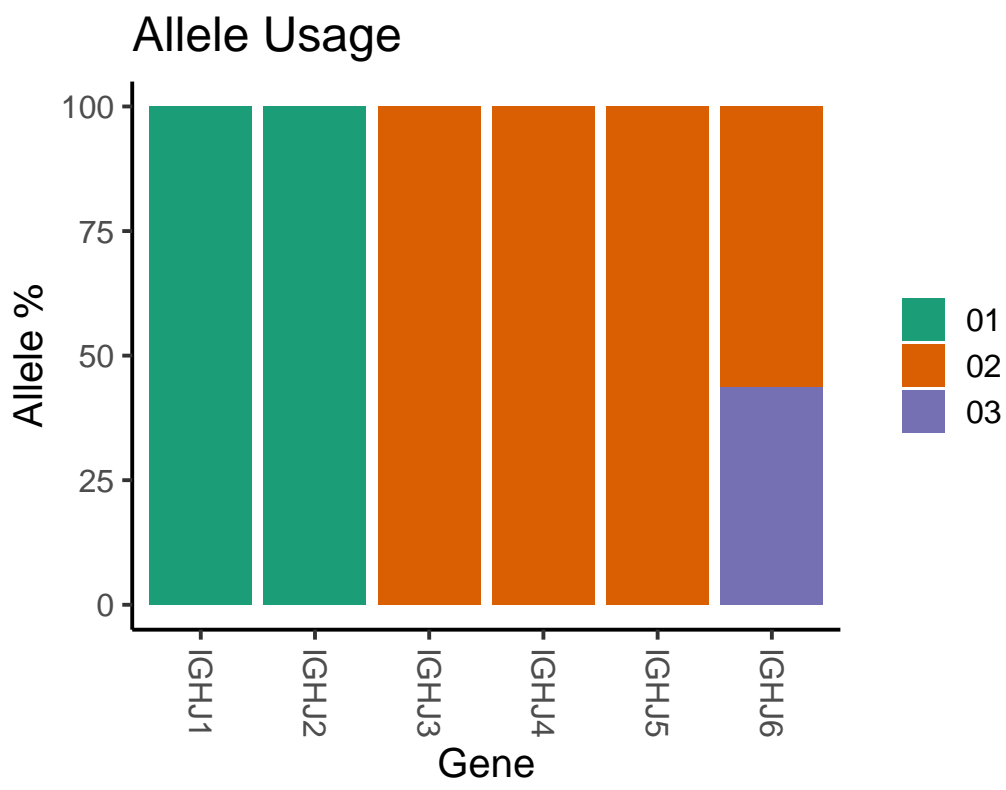
IGHV5-51*01

455 sequences assigned
393 (86.4%) exact matches, in which:
393 unique CDR3
7 unique J

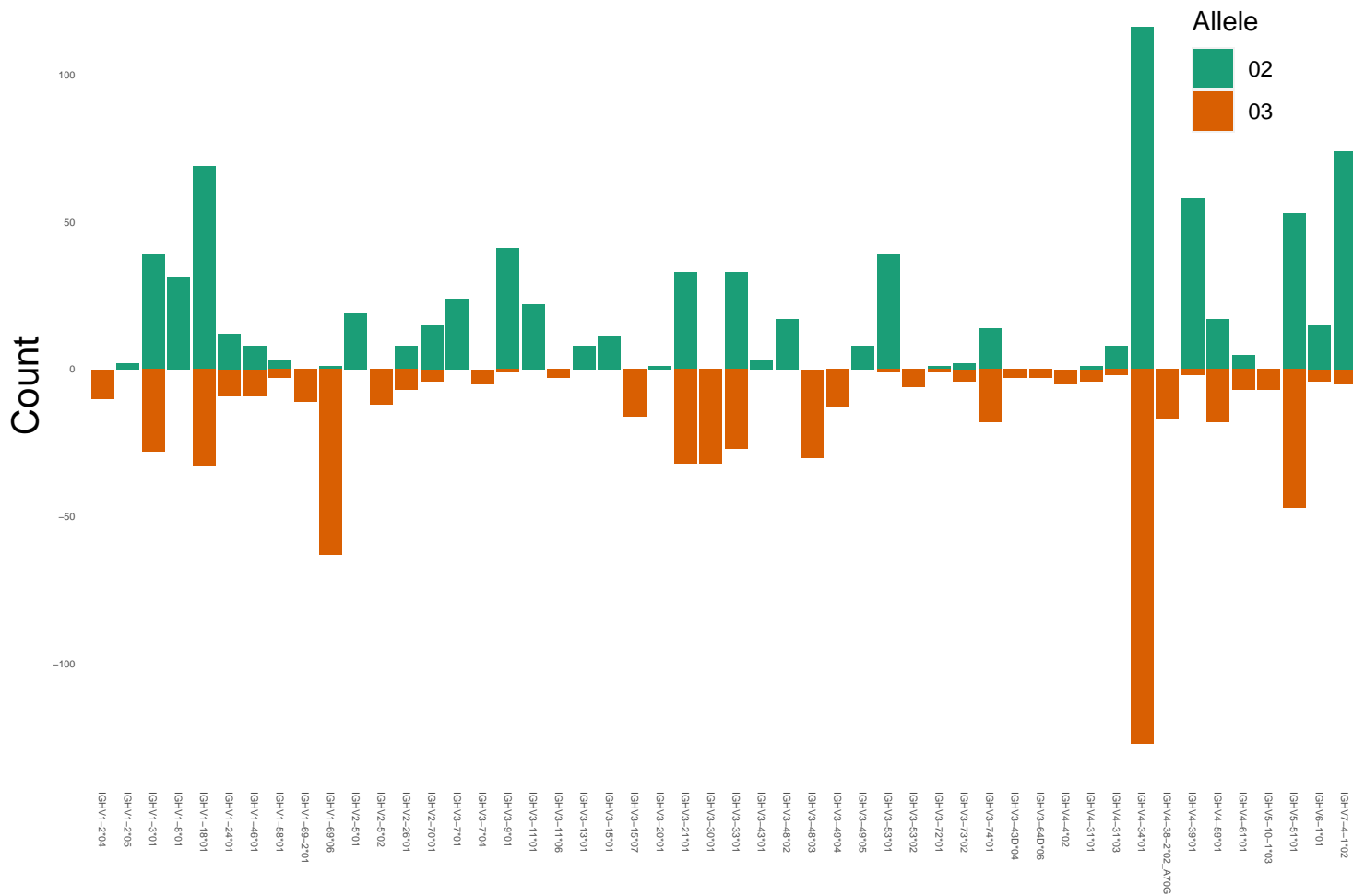


IGHV4-38-2*02_A70G





Sequence Count by IGHJ6 allele usage



[illegible]