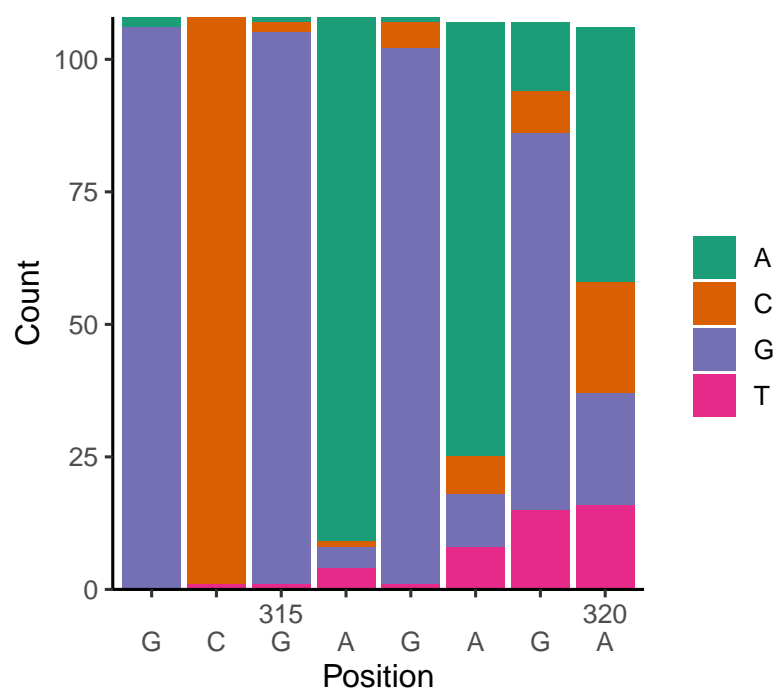


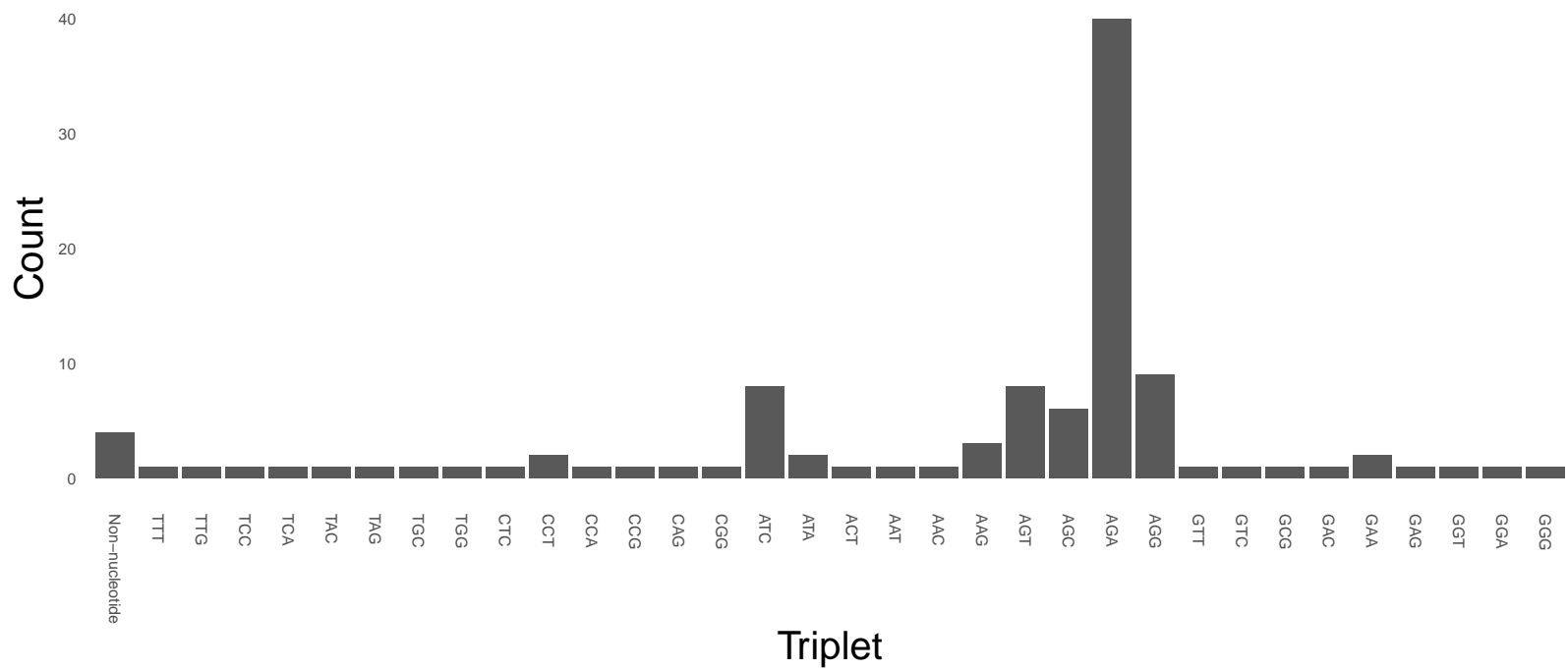
Gene IGHV1-69*08_C191T



Gene IGHV1-69*08_C191T

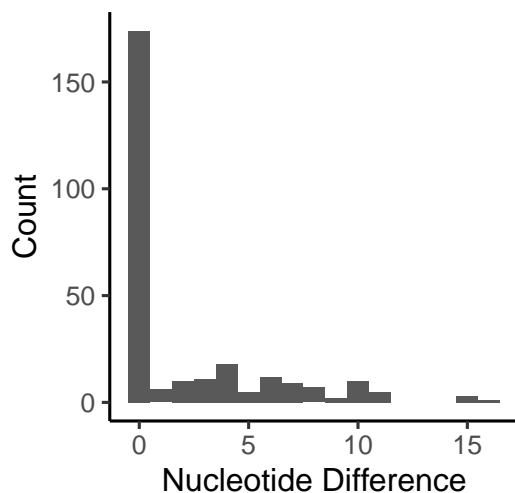


IGHV1-69*08_C191T- Final 3 nucleotides as a triplet



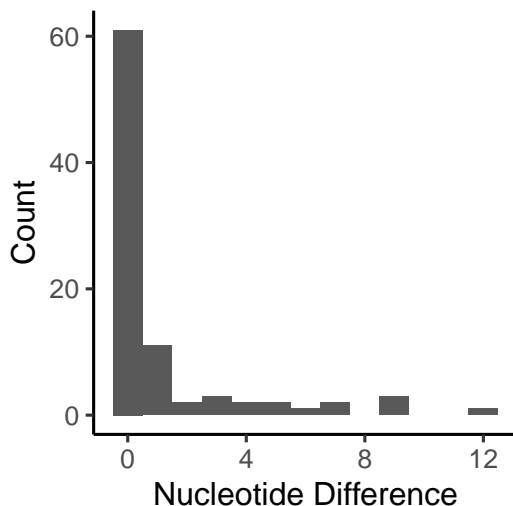
IGHV1-2*02

273 sequences assigned
174 (63.7%) exact matches, in which:
174 unique CDR3
6 unique J



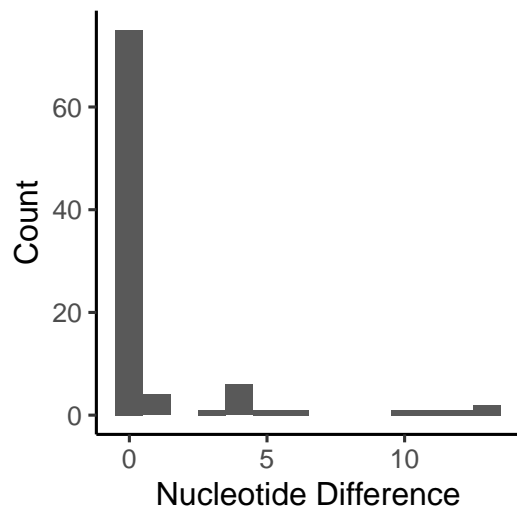
IGHV1-8*01

88 sequences assigned
61 (69.3%) exact matches, in which:
61 unique CDR3
4 unique J



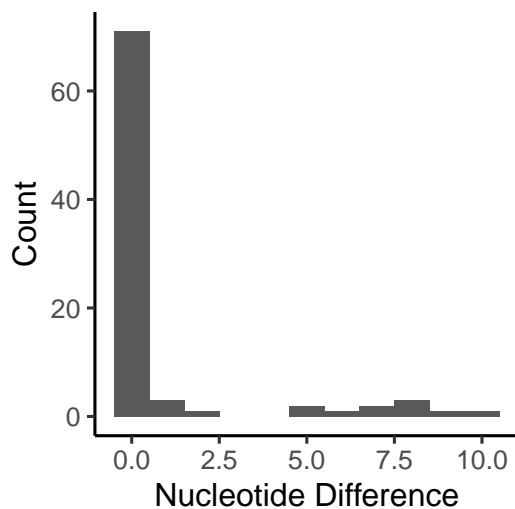
IGHV1-24*01

93 sequences assigned
75 (80.6%) exact matches, in which:
75 unique CDR3
6 unique J



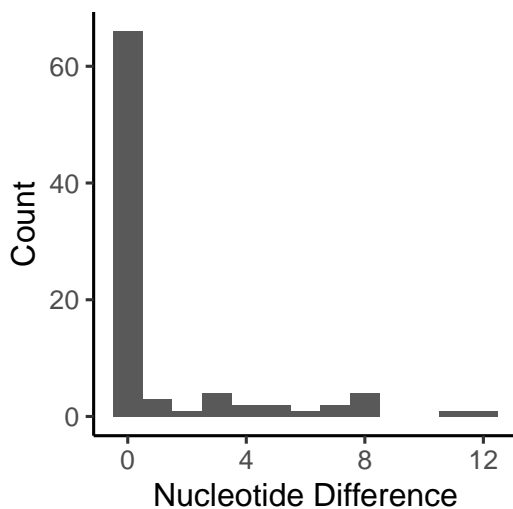
IGHV1-2*04

85 sequences assigned
71 (83.5%) exact matches, in which:
71 unique CDR3
5 unique J



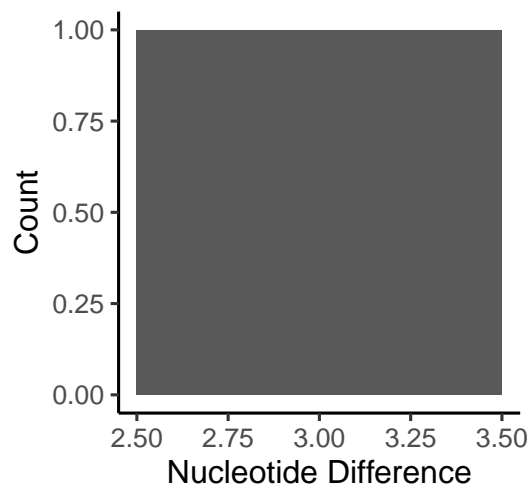
IGHV1-8*03

87 sequences assigned
66 (75.9%) exact matches, in which:
66 unique CDR3
4 unique J



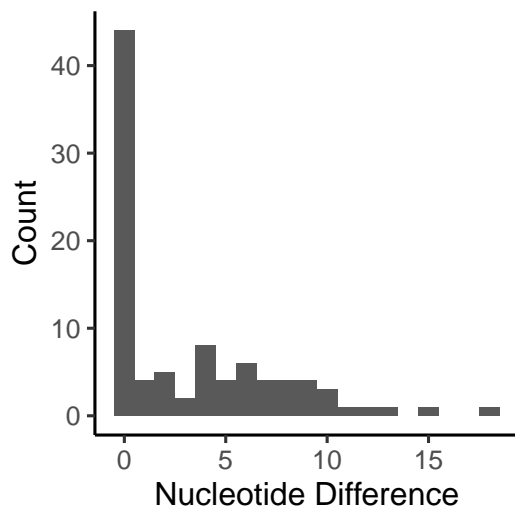
IGHV1-45*02

1 sequences assigned
No exact matches.



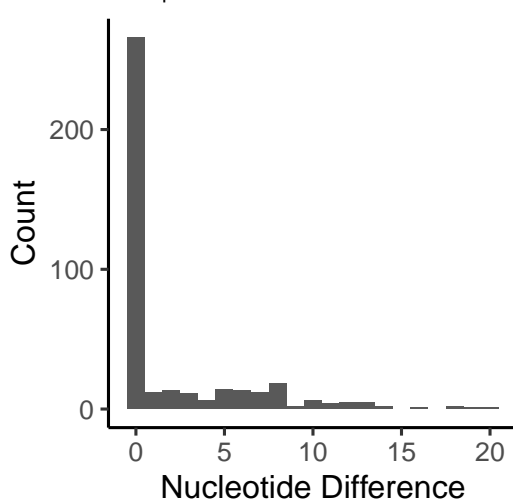
IGHV1-3*01

93 sequences assigned
44 (47.3%) exact matches, in which:
44 unique CDR3
5 unique J



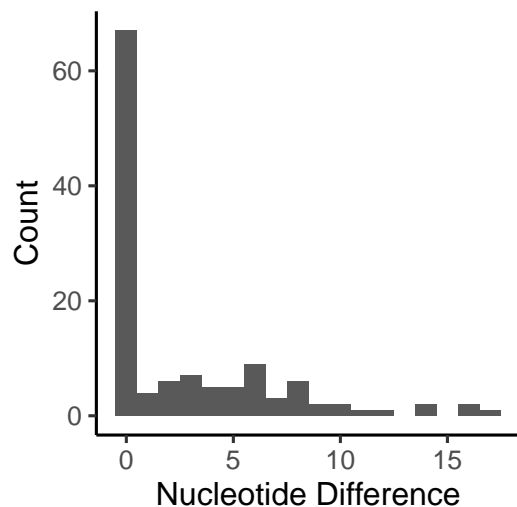
IGHV1-18*01

397 sequences assigned
266 (67%) exact matches, in which:
266 unique CDR3
6 unique J



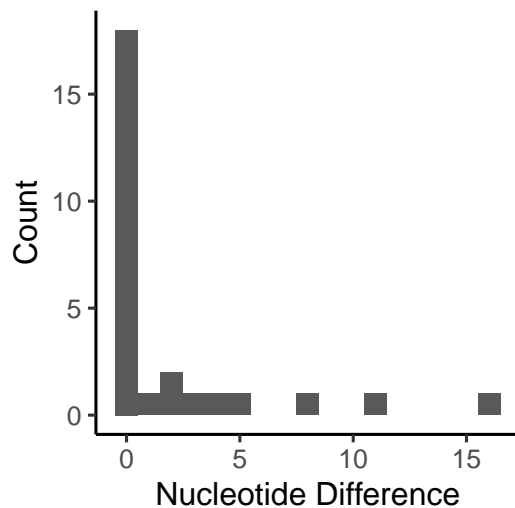
IGHV1-46*01

123 sequences assigned
67 (54.5%) exact matches, in which:
67 unique CDR3
5 unique J



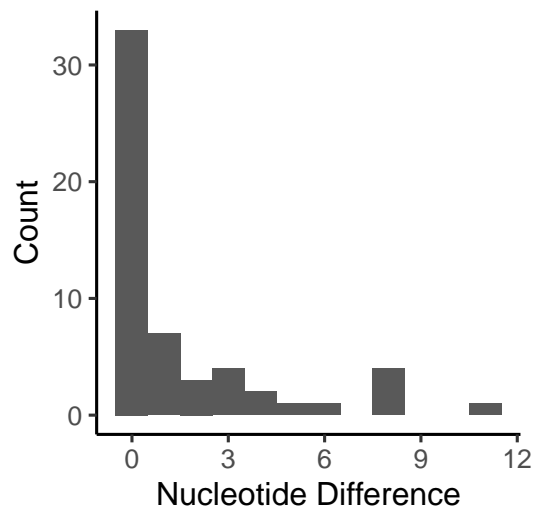
IGHV1-58*02

27 sequences assigned
18 (66.7%) exact matches, in which:
18 unique CDR3
3 unique J



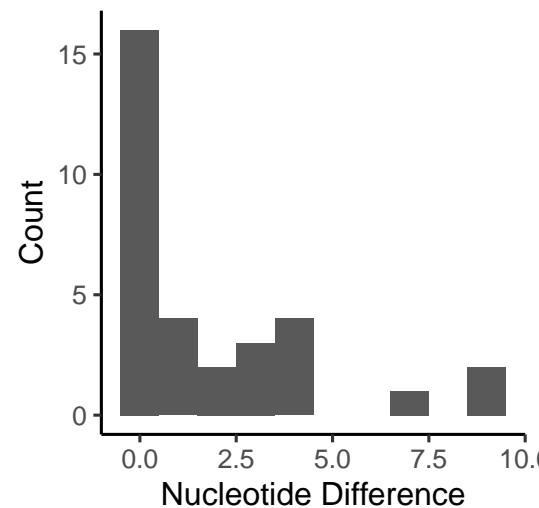
IGHV2-5*01

56 sequences assigned
33 (58.9%) exact matches, in which:
33 unique CDR3
5 unique J



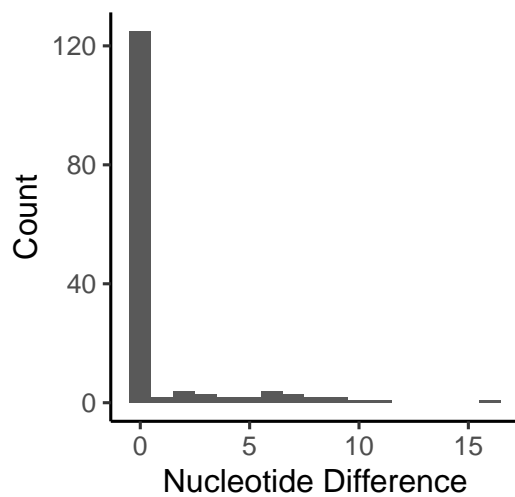
IGHV2-70*15

32 sequences assigned
16 (50%) exact matches, in which:
16 unique CDR3
5 unique J



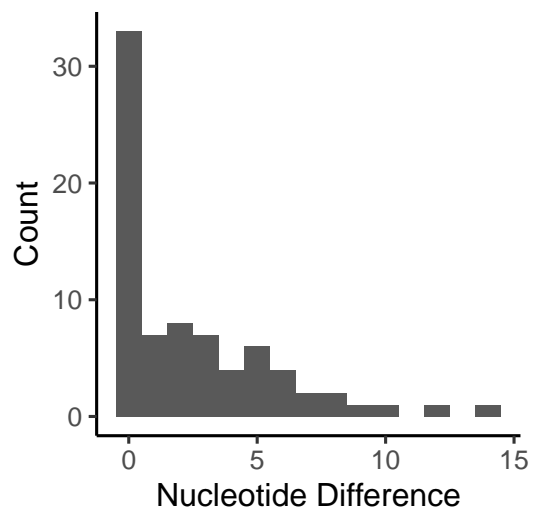
IGHV1-69*04

152 sequences assigned
125 (82.2%) exact matches, in which:
125 unique CDR3
6 unique J



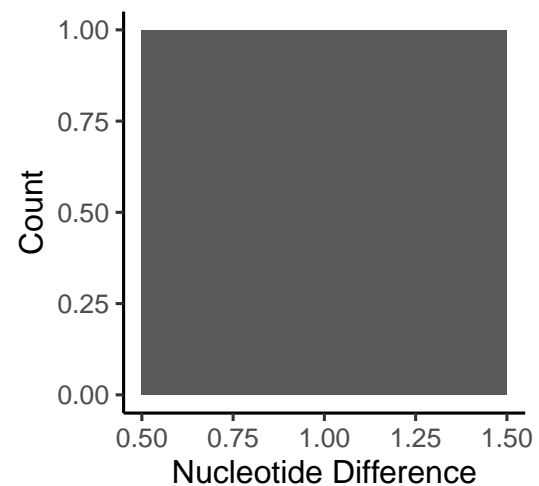
IGHV2-5*02

77 sequences assigned
33 (42.9%) exact matches, in which:
33 unique CDR3
6 unique J



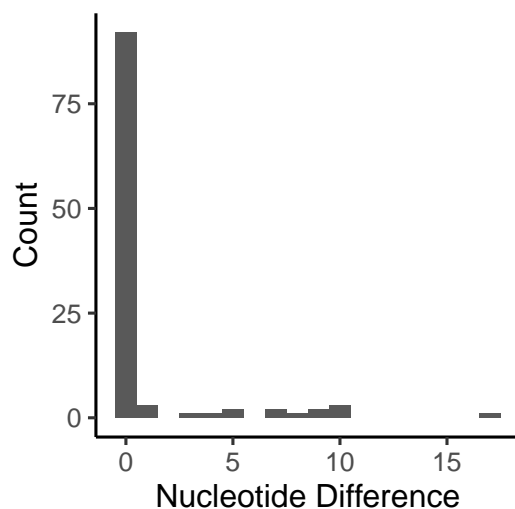
IGHV2-70D*04

1 sequences assigned
No exact matches.



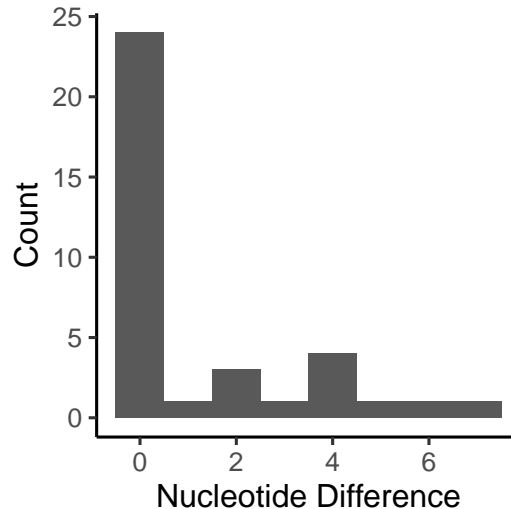
IGHV1-69*08_C191T

108 sequences assigned
92 (85.2%) exact matches, in which:
92 unique CDR3
5 unique J



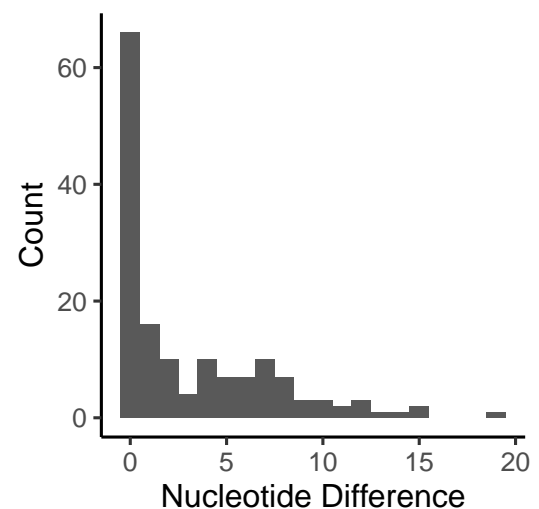
IGHV2-26*01

36 sequences assigned
24 (66.7%) exact matches, in which:
24 unique CDR3
5 unique J



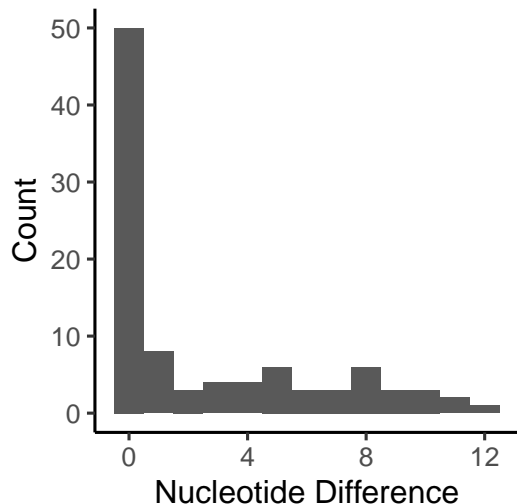
IGHV3-7*01

155 sequences assigned
66 (42.6%) exact matches, in which:
66 unique CDR3
6 unique J



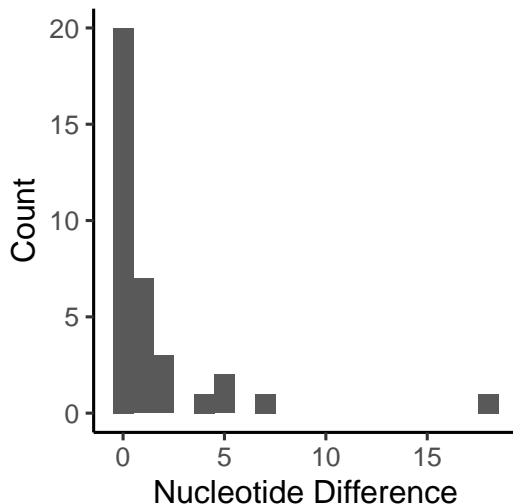
IGHV3-9*01

96 sequences assigned
50 (52.1%) exact matches, in which:
50 unique CDR3
5 unique J



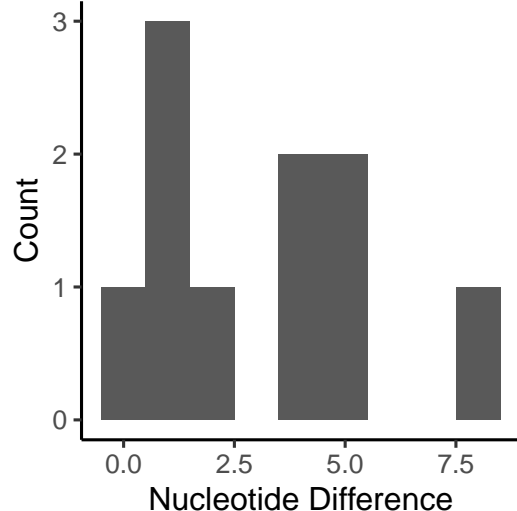
IGHV3-11*04

35 sequences assigned
20 (57.1%) exact matches, in which:
20 unique CDR3
5 unique J



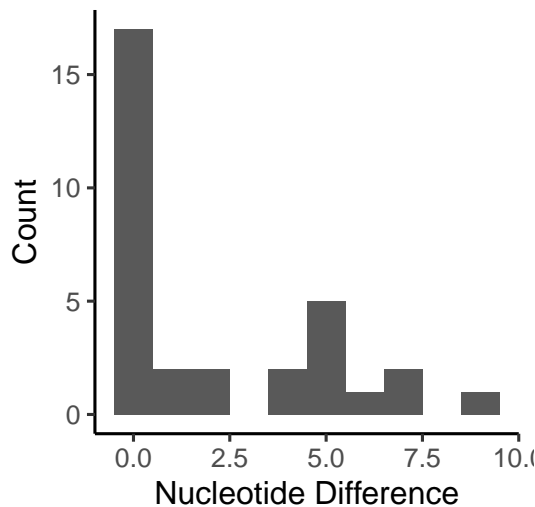
IGHV3-20*01

10 sequences assigned
1 (10%) exact matches, in which:
1 unique CDR3
1 unique J



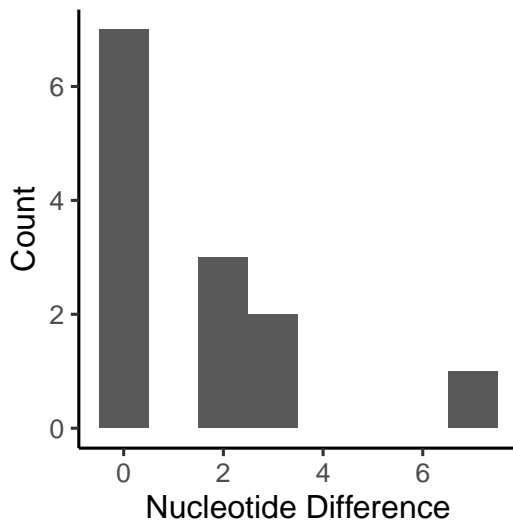
IGHV3-9*03

32 sequences assigned
17 (53.1%) exact matches, in which:
17 unique CDR3
4 unique J



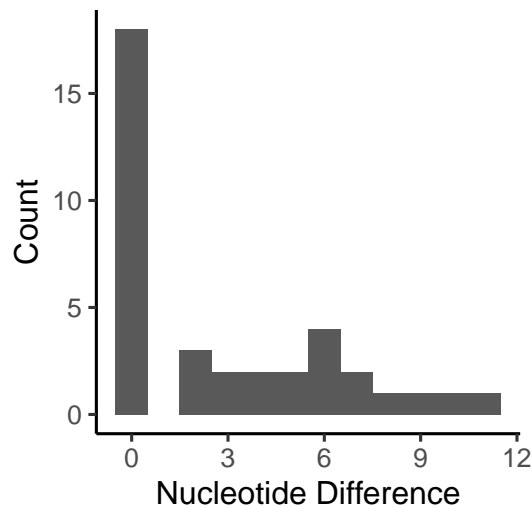
IGHV3-13*01

13 sequences assigned
7 (53.8%) exact matches, in which:
7 unique CDR3
2 unique J



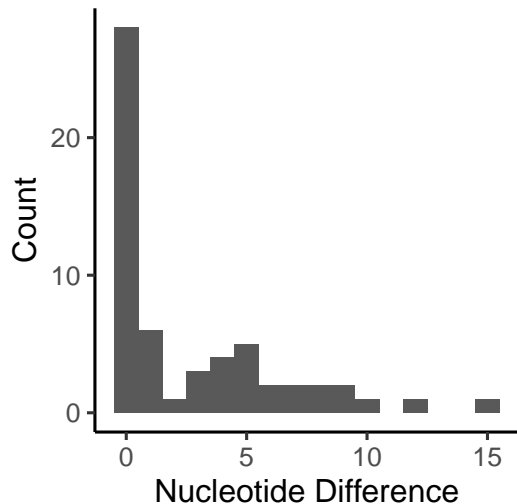
IGHV3-20*04

37 sequences assigned
18 (48.6%) exact matches, in which:
18 unique CDR3
3 unique J



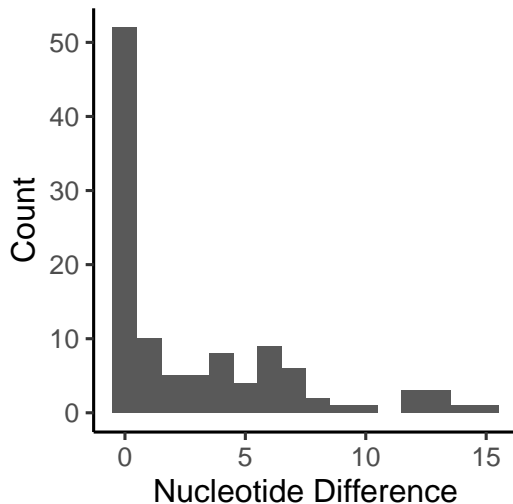
IGHV3-11*01

58 sequences assigned
28 (48.3%) exact matches, in which:
28 unique CDR3
5 unique J



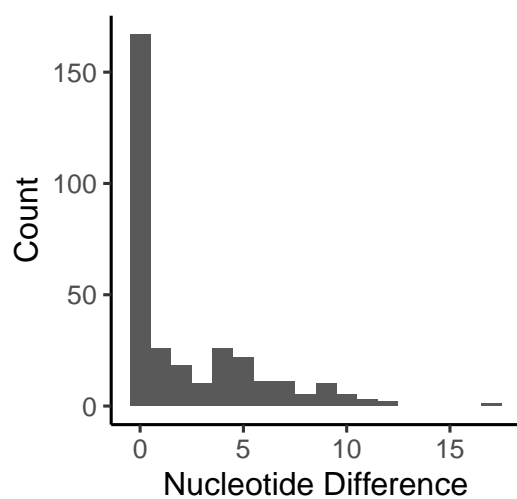
IGHV3-15*01

111 sequences assigned
52 (46.8%) exact matches, in which:
52 unique CDR3
4 unique J



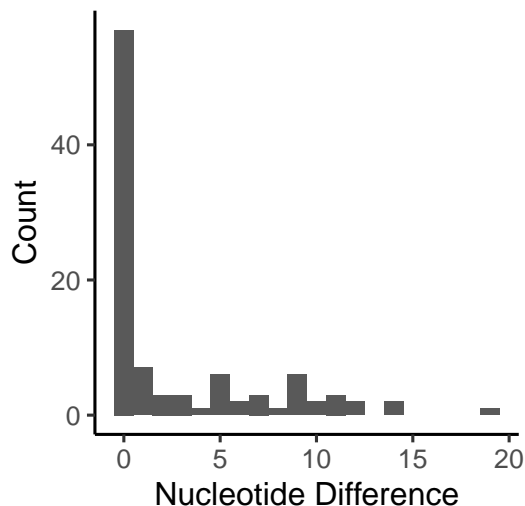
IGHV3-21*01

319 sequences assigned
167 (52.4%) exact matches, in which:
167 unique CDR3
6 unique J



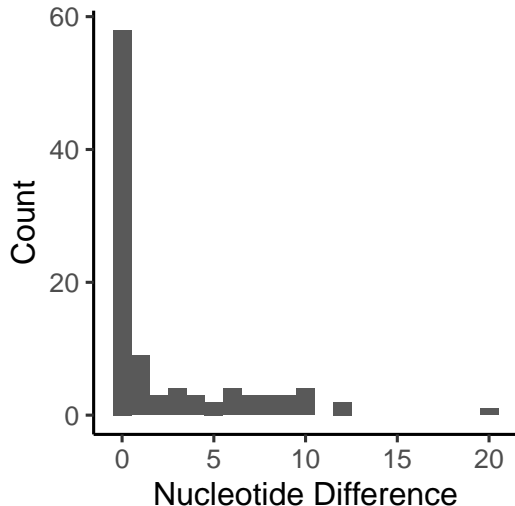
IGHV3-30-3*01

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



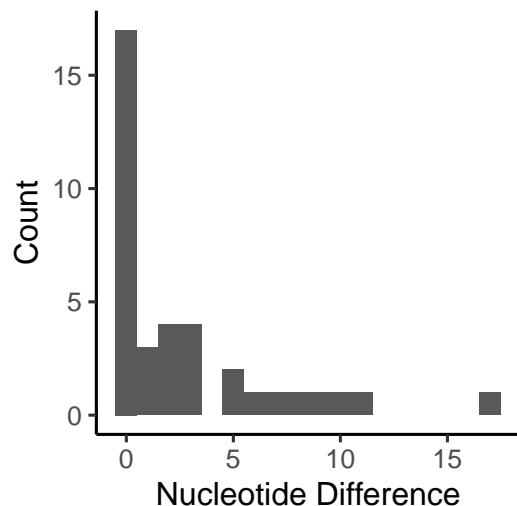
IGHV3-48*03

101 sequences assigned
58 (57.4%) exact matches, in which:
58 unique CDR3
5 unique J



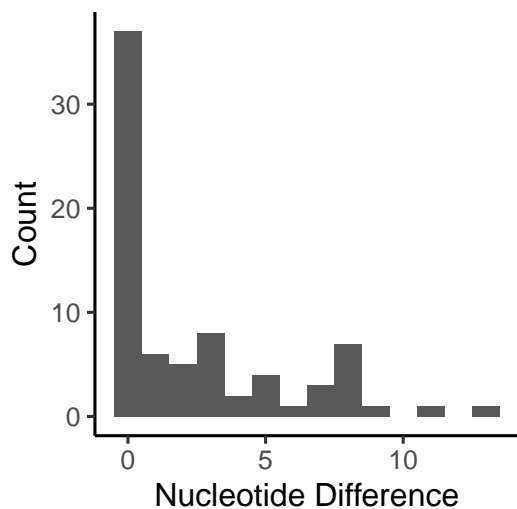
IGHV3-49*04

37 sequences assigned
17 (45.9%) exact matches, in which:
17 unique CDR3
5 unique J



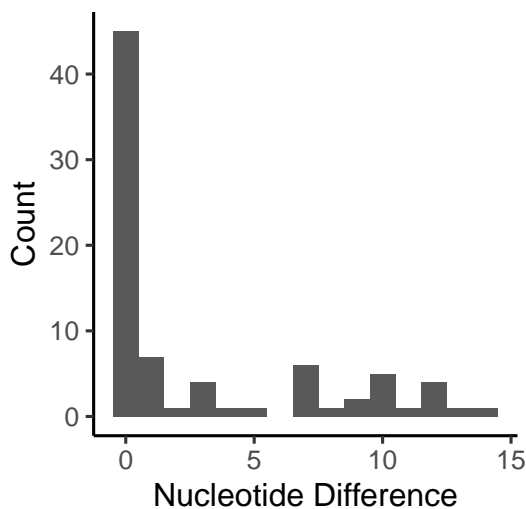
IGHV3-33*01

76 sequences assigned
37 (48.7%) exact matches, in which:
37 unique CDR3
5 unique J



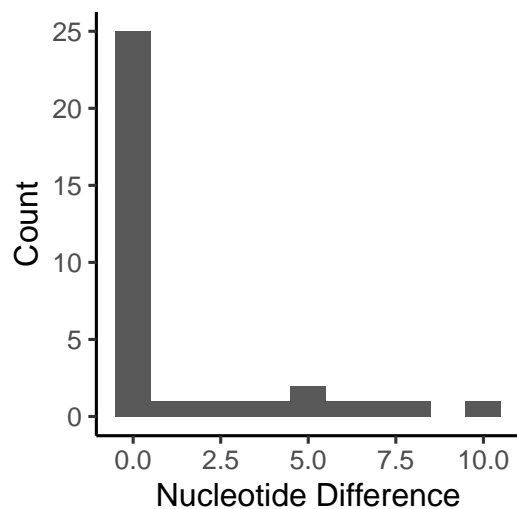
IGHV3-48*04

80 sequences assigned
45 (56.2%) exact matches, in which:
45 unique CDR3
5 unique J



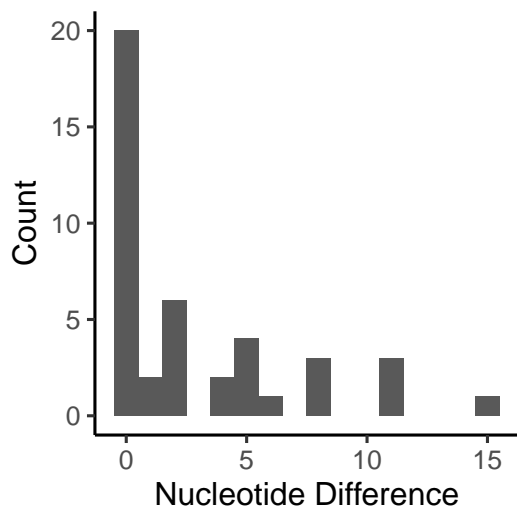
IGHV3-53*02

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



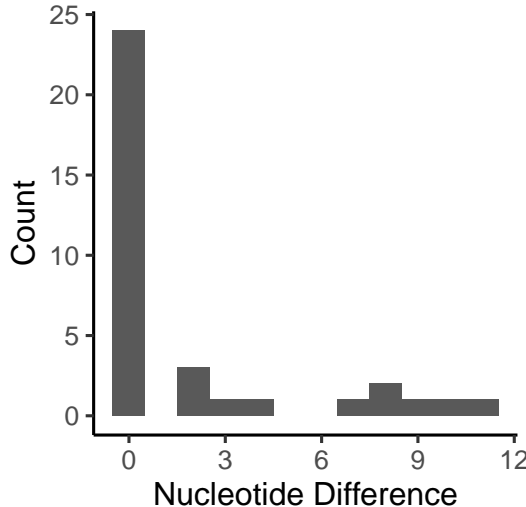
IGHV3-43*02

42 sequences assigned
20 (47.6%) exact matches, in which:
20 unique CDR3
5 unique J



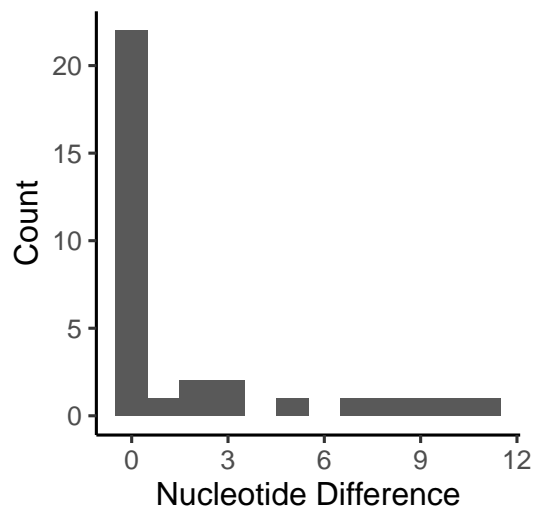
IGHV3-49*03

35 sequences assigned
24 (68.6%) exact matches, in which:
24 unique CDR3
4 unique J



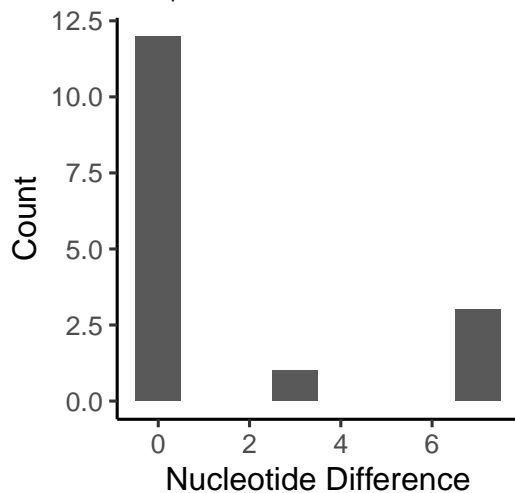
IGHV3-53*04

33 sequences assigned
22 (66.7%) exact matches, in which:
22 unique CDR3
4 unique J



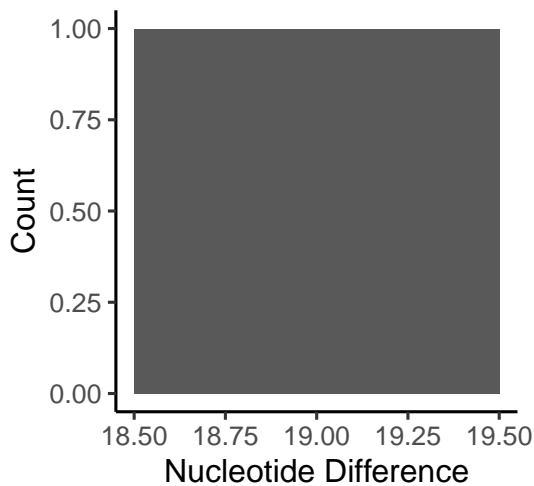
IGHV3-64*01

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



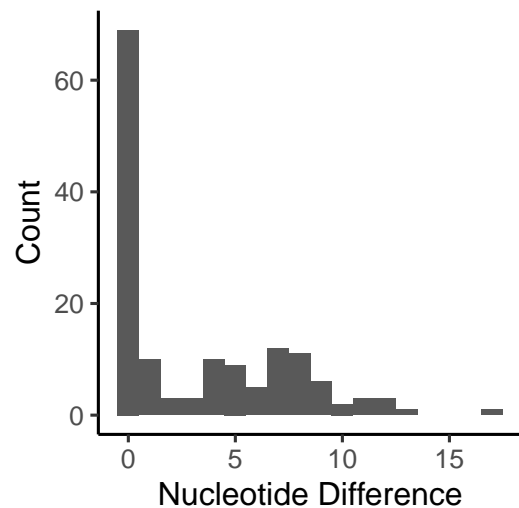
IGHV3-69-1*02

1 sequences assigned
No exact matches.



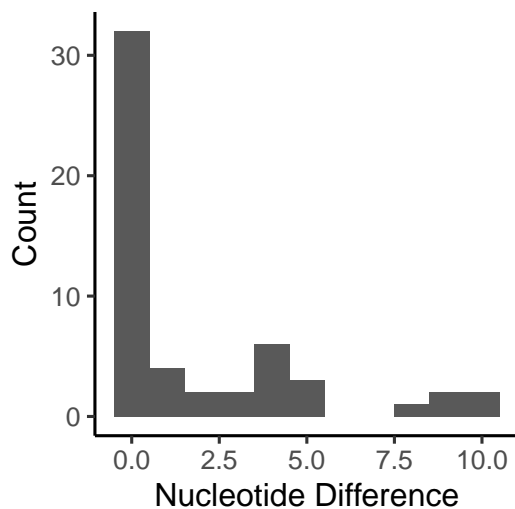
IGHV3-74*01

149 sequences assigned
69 (46.3%) exact matches, in which:
69 unique CDR3
5 unique J



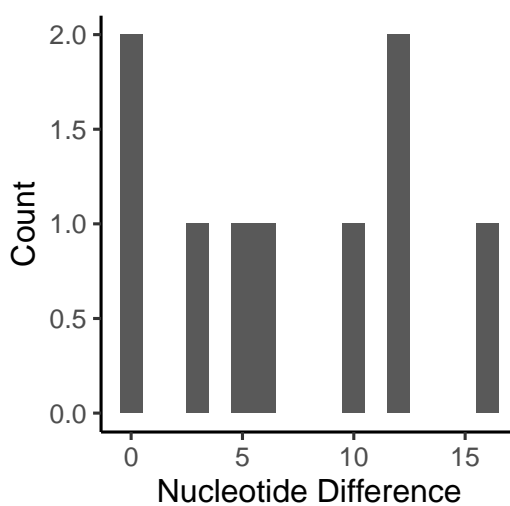
IGHV3-66*01

55 sequences assigned
32 (58.2%) exact matches, in which:
32 unique CDR3
5 unique J



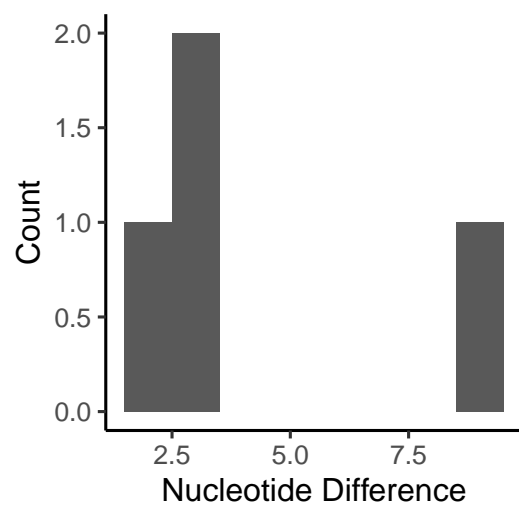
IGHV3-72*01

9 sequences assigned
2 (22.2%) exact matches, in which:
2 unique CDR3
2 unique J



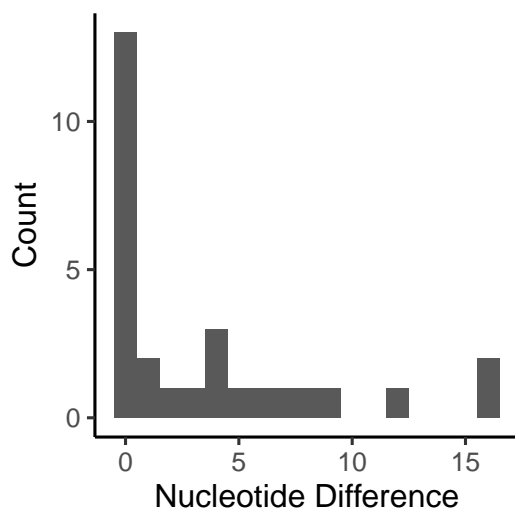
IGHV3-43D*04

4 sequences assigned
No exact matches.



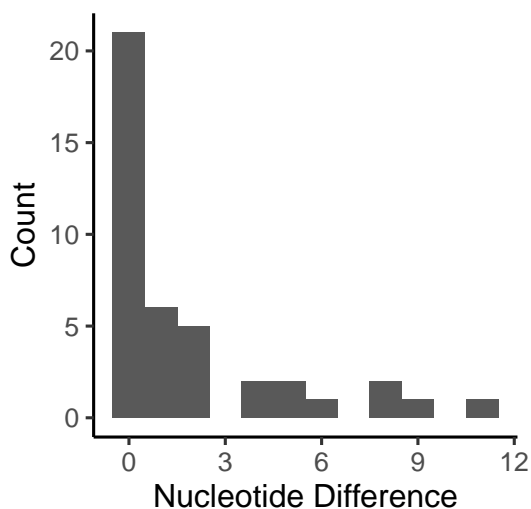
IGHV3-66*02

28 sequences assigned
13 (46.4%) exact matches, in which:
13 unique CDR3
3 unique J



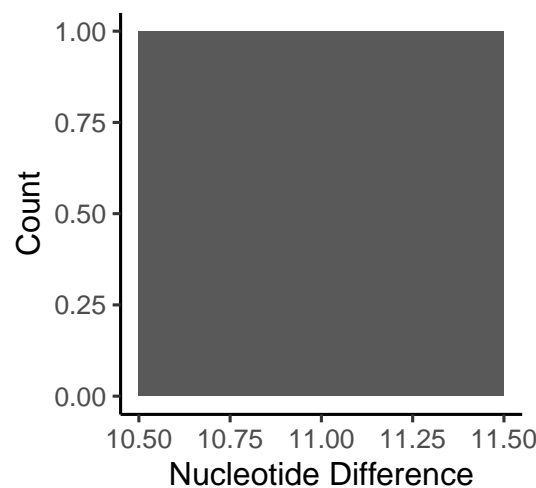
IGHV3-73*01

41 sequences assigned
21 (51.2%) exact matches, in which:
21 unique CDR3
4 unique J



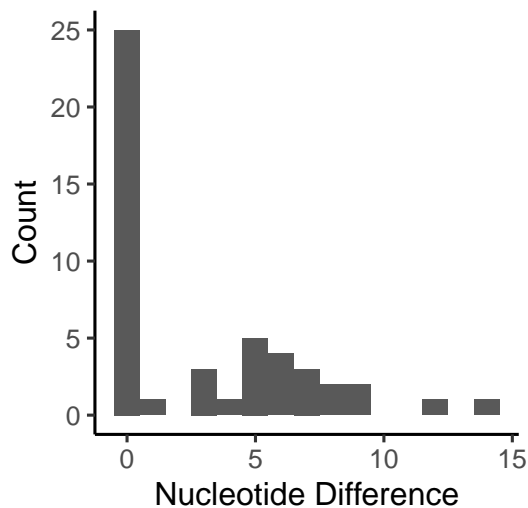
IGHV3-NL1*01

1 sequences assigned
No exact matches.



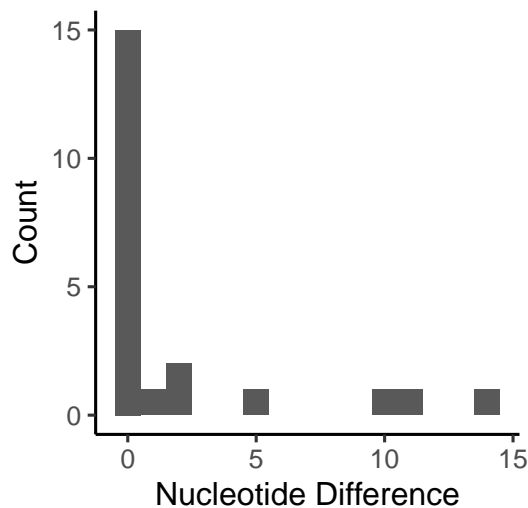
IGHV4-4*02

48 sequences assigned
25 (52.1%) exact matches, in which:
25 unique CDR3
5 unique J



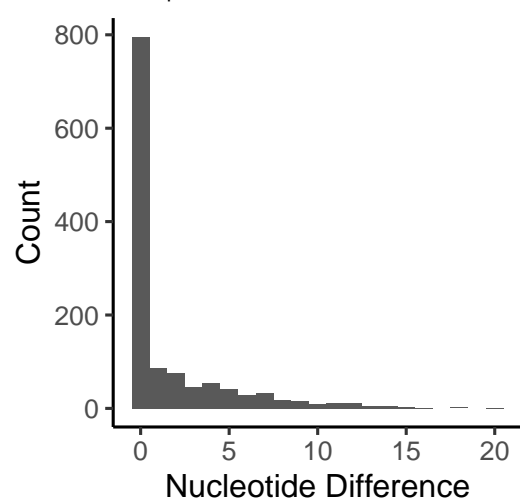
IGHV4-30-2*01

22 sequences assigned
15 (68.2%) exact matches, in which:
15 unique CDR3
3 unique J



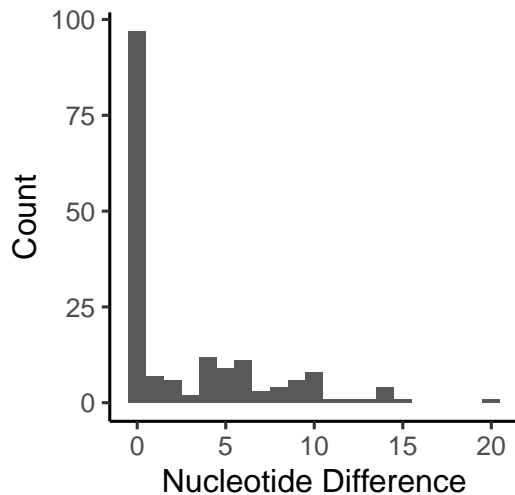
IGHV4-34*01

1250 sequences assigned
796 (63.7%) exact matches, in which:
794 unique CDR3
6 unique J



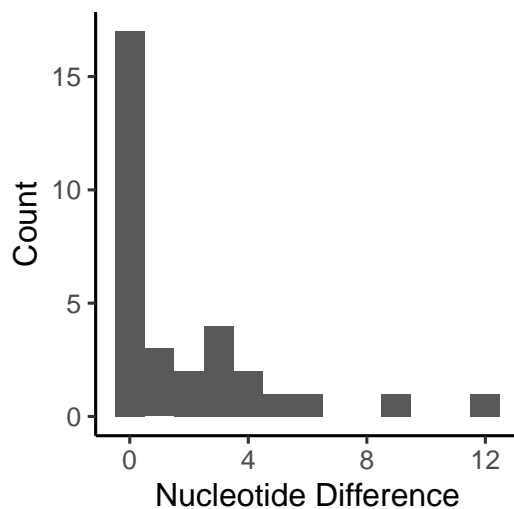
IGHV4-4*07

175 sequences assigned
97 (55.4%) exact matches, in which:
97 unique CDR3
5 unique J



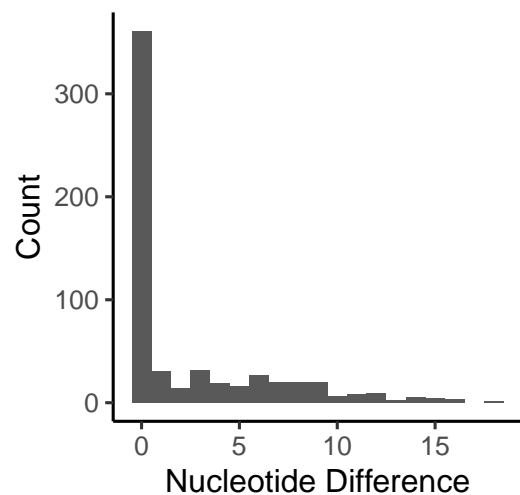
IGHV4-30-4*01

32 sequences assigned
17 (53.1%) exact matches, in which:
17 unique CDR3
5 unique J



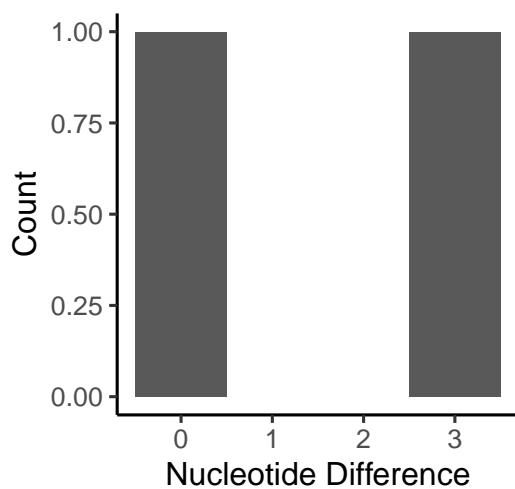
IGHV4-39*01

600 sequences assigned
361 (60.2%) exact matches, in which:
361 unique CDR3
6 unique J



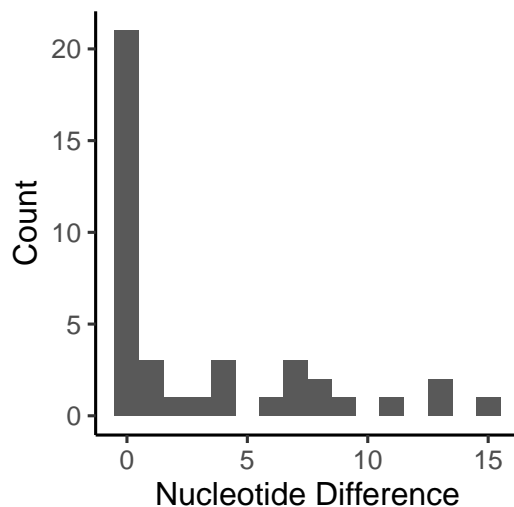
IGHV4-28*01

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



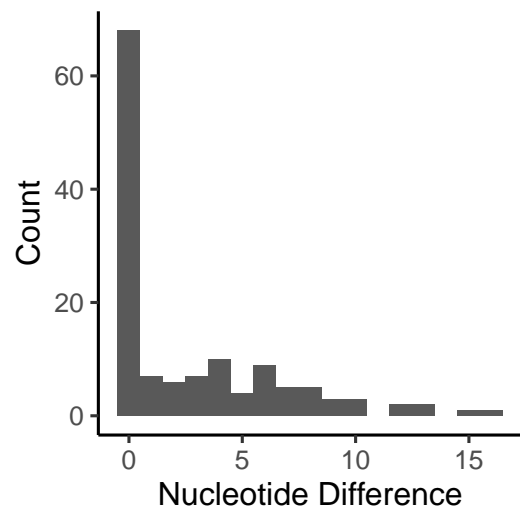
IGHV4-31*03

40 sequences assigned
21 (52.5%) exact matches, in which:
21 unique CDR3
6 unique J



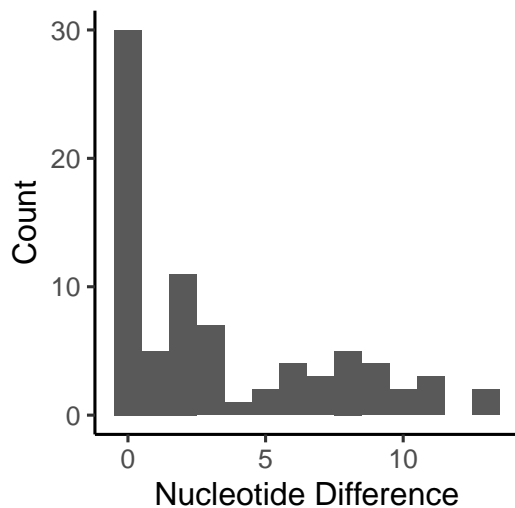
IGHV4-59*01

135 sequences assigned
68 (50.4%) exact matches, in which:
68 unique CDR3
5 unique J



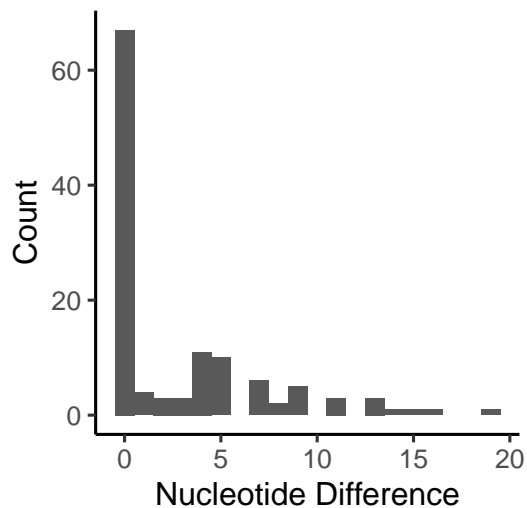
IGHV4-59*08

80 sequences assigned
30 (37.5%) exact matches, in which:
30 unique CDR3
5 unique J



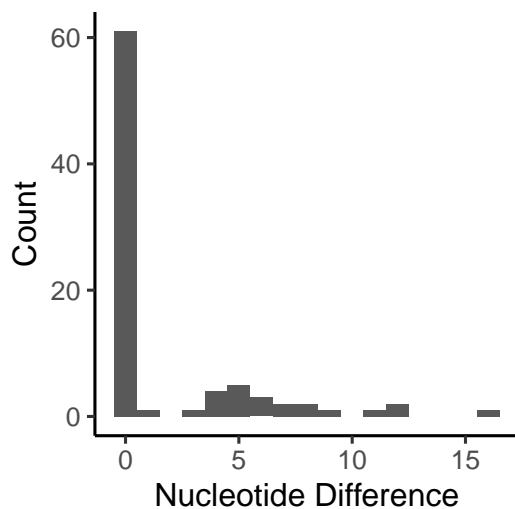
IGHV5-51*03

121 sequences assigned
67 (55.4%) exact matches, in which:
67 unique CDR3
5 unique J



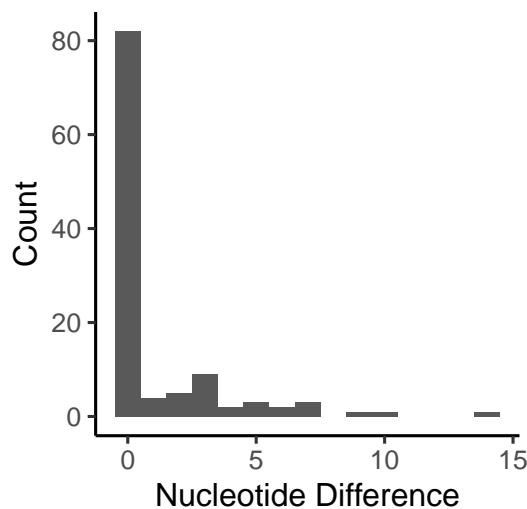
IGHV4-61*02

84 sequences assigned
61 (72.6%) exact matches, in which:
61 unique CDR3
6 unique J



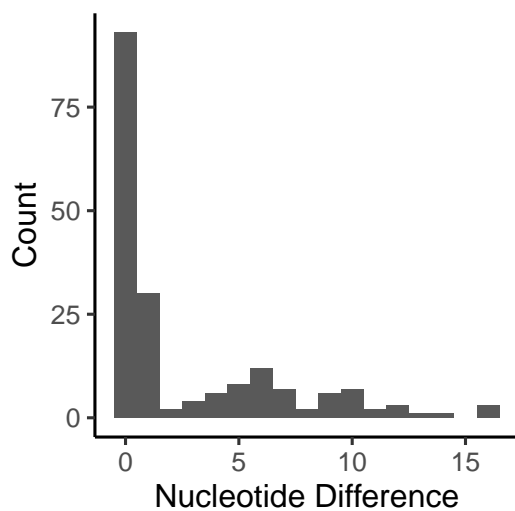
IGHV6-1*01

113 sequences assigned
82 (72.6%) exact matches, in which:
82 unique CDR3
6 unique J



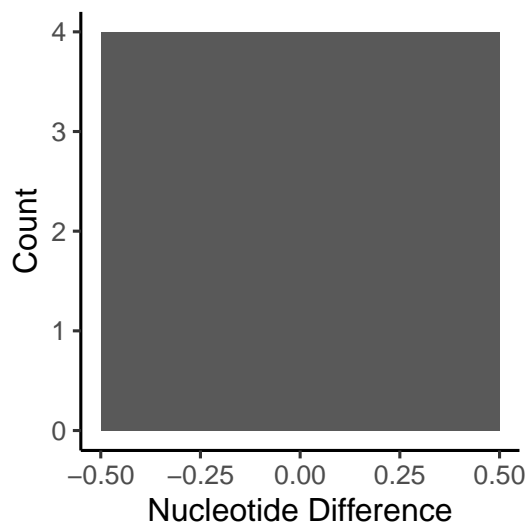
IGHV5-51*01

188 sequences assigned
93 (49.5%) exact matches, in which:
93 unique CDR3
5 unique J

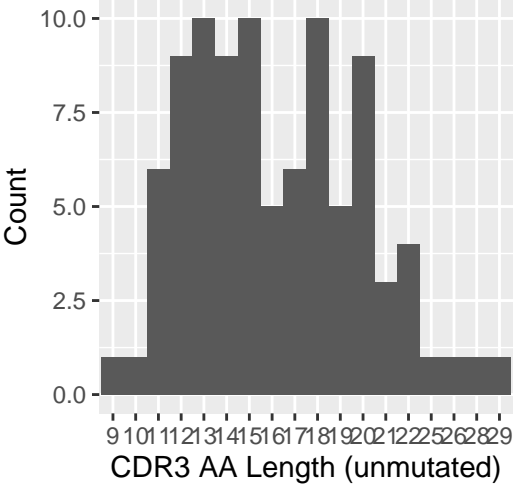


IGHV7-4-1*01

4 sequences assigned
4 (100%) exact matches, in which:
4 unique CDR3
2 unique J



IGHV1-69*08_C191T





[illegible]