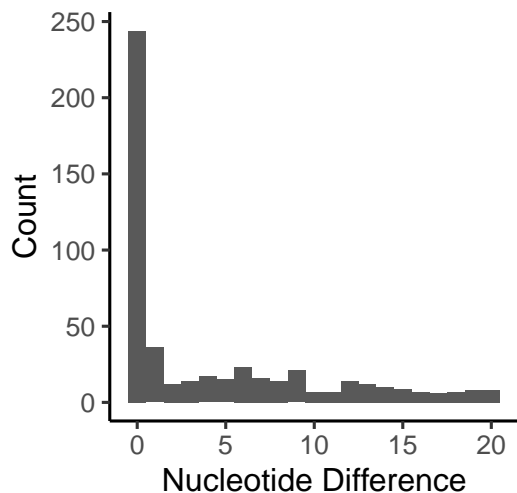


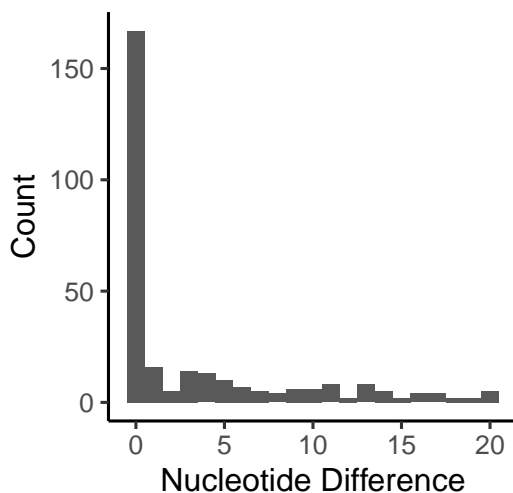
IGHV1-2*02

553 sequences assigned
244 (44.1%) exact matches, in which:
244 unique CDR3
6 unique J



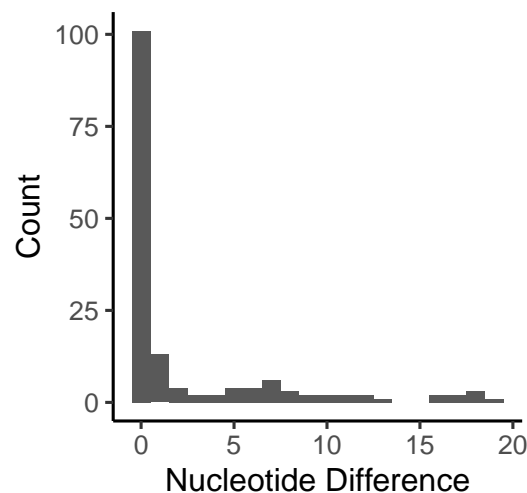
IGHV1-18*01

326 sequences assigned
167 (51.2%) exact matches, in which:
167 unique CDR3
5 unique J



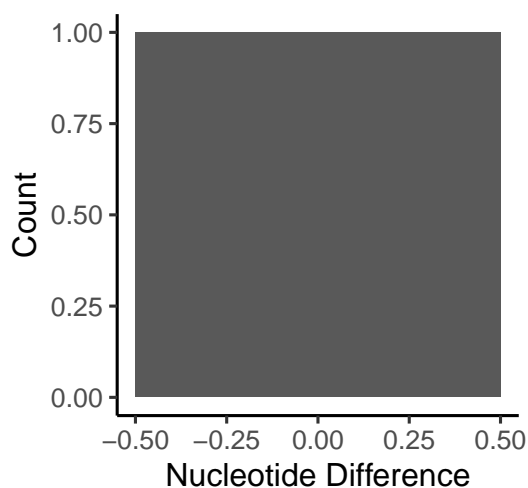
IGHV1-46*01

164 sequences assigned
101 (61.6%) exact matches, in which:
100 unique CDR3
6 unique J



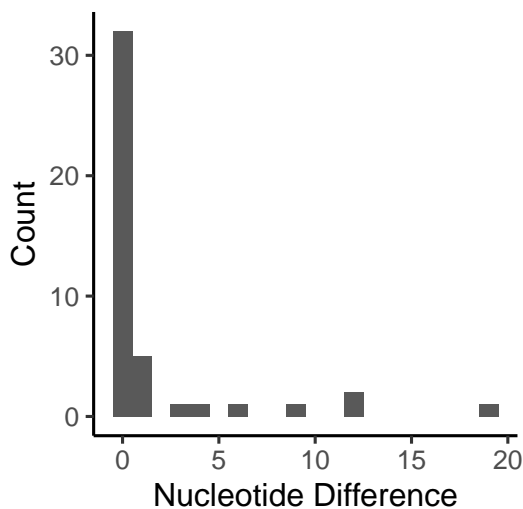
IGHV1-3*02

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



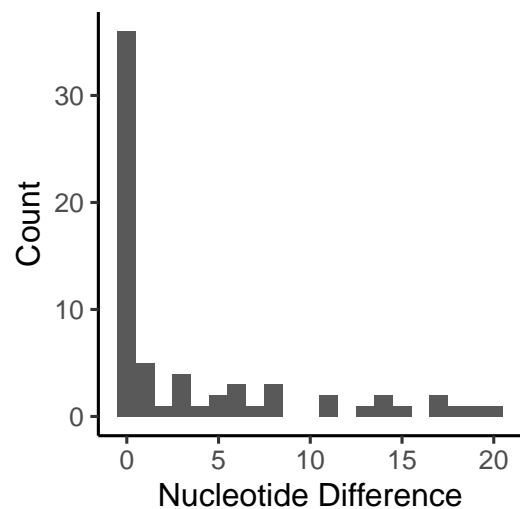
IGHV1-24*01

47 sequences assigned
32 (68.1%) exact matches, in which:
32 unique CDR3
5 unique J



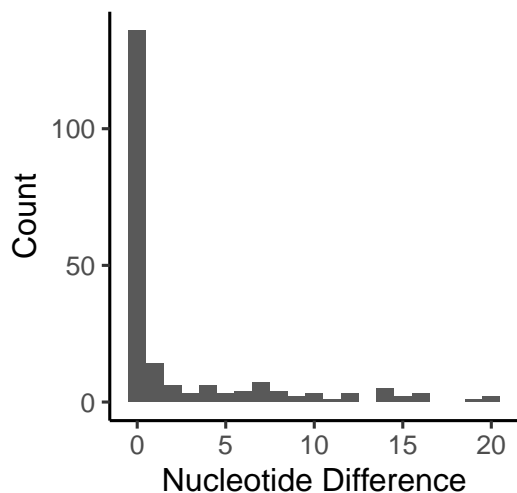
IGHV1-46*03

68 sequences assigned
36 (52.9%) exact matches, in which:
36 unique CDR3
6 unique J



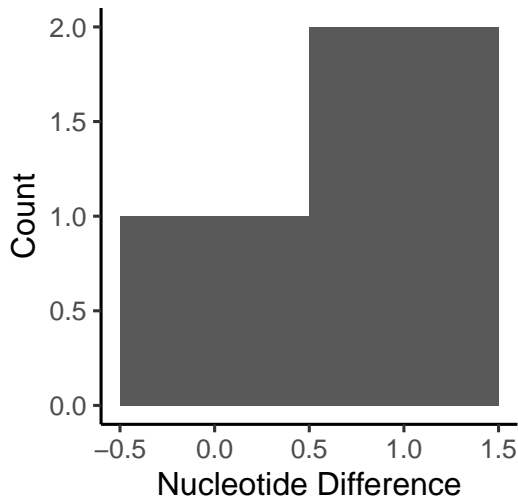
IGHV1-8*01

217 sequences assigned
136 (62.7%) exact matches, in which:
135 unique CDR3
6 unique J



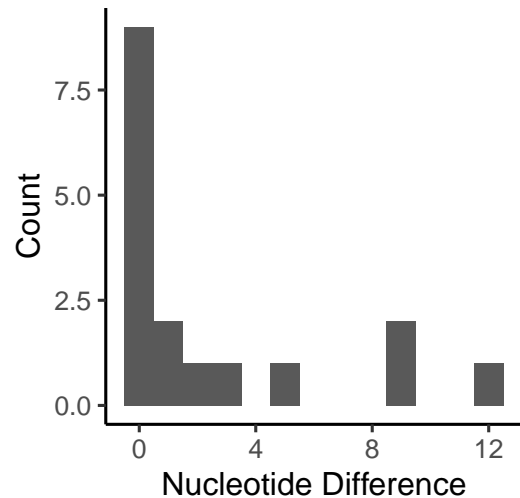
IGHV1-45*02

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



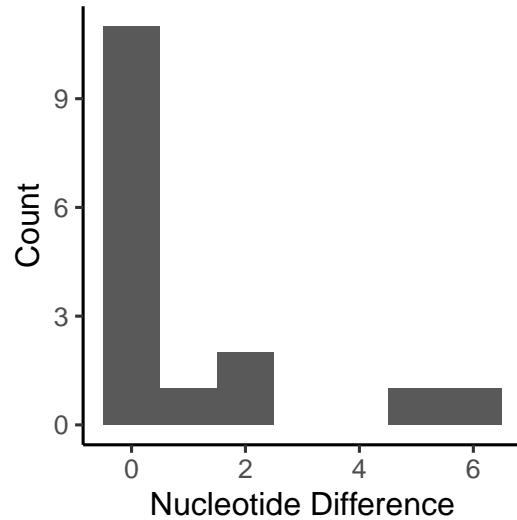
IGHV1-58*01

17 sequences assigned
9 (52.9%) exact matches, in which:
9 unique CDR3
5 unique J



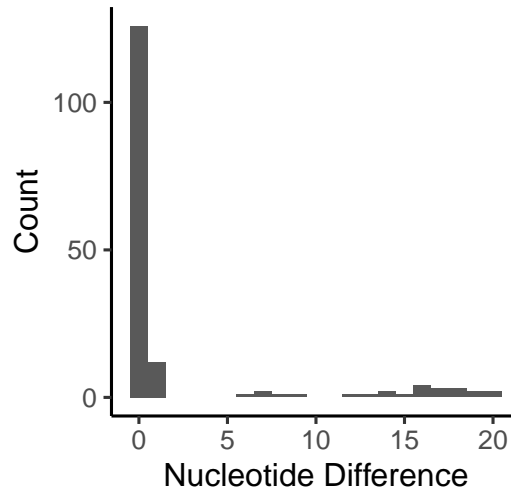
IGHV1-58*02

16 sequences assigned
11 (68.8%) exact matches, in which:
11 unique CDR3
3 unique J



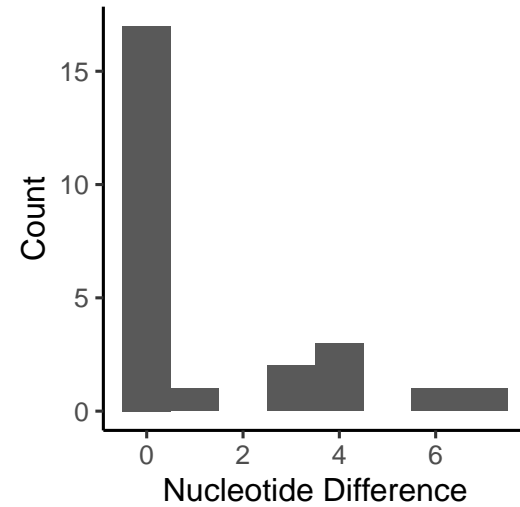
IGHV1-69*10

175 sequences assigned
126 (72%) exact matches, in which:
126 unique CDR3
5 unique J



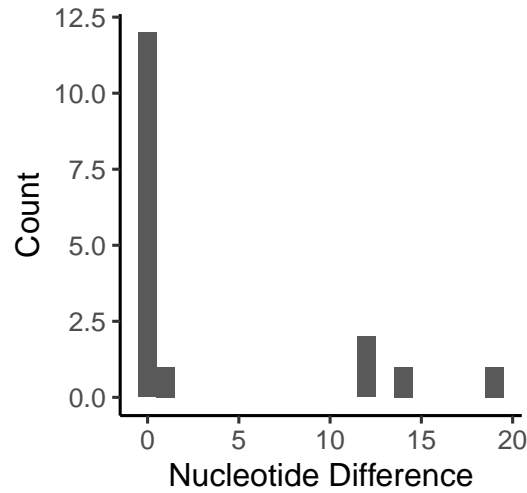
IGHV2-70*01

26 sequences assigned
17 (65.4%) exact matches, in which:
17 unique CDR3
4 unique J



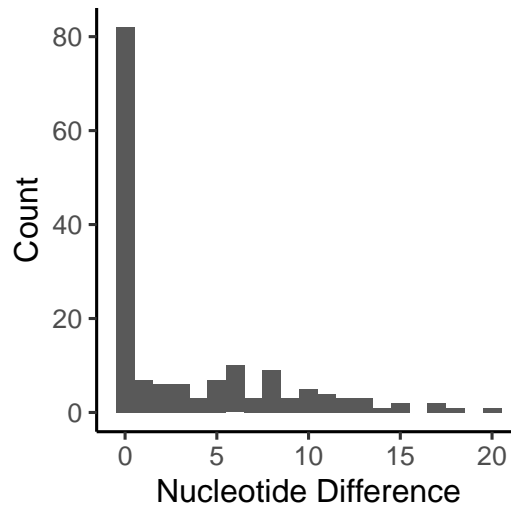
IGHV1-69-2*01

19 sequences assigned
12 (63.2%) exact matches, in which:
12 unique CDR3
4 unique J



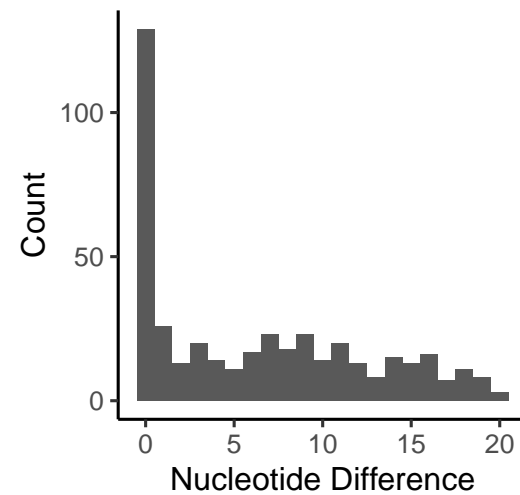
IGHV2-5*01

164 sequences assigned
82 (50%) exact matches, in which:
81 unique CDR3
6 unique J



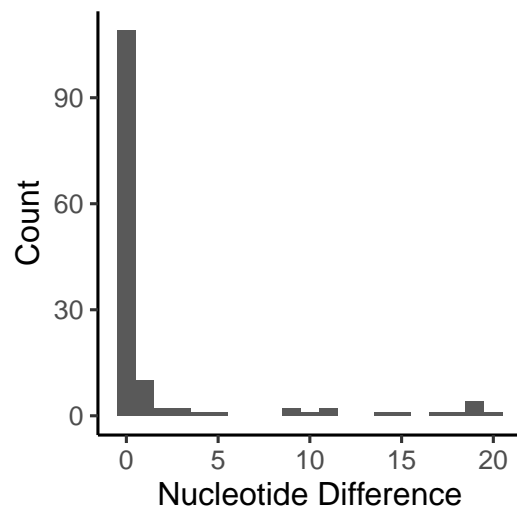
IGHV3-7*01

443 sequences assigned
129 (29.1%) exact matches, in which:
128 unique CDR3
6 unique J



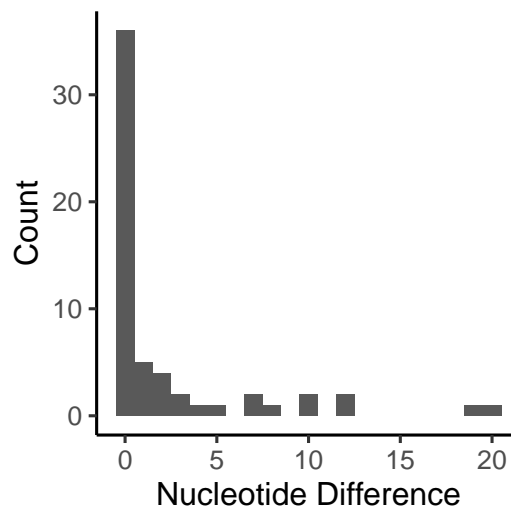
IGHV1-69*06

158 sequences assigned
109 (69%) exact matches, in which:
109 unique CDR3
4 unique J



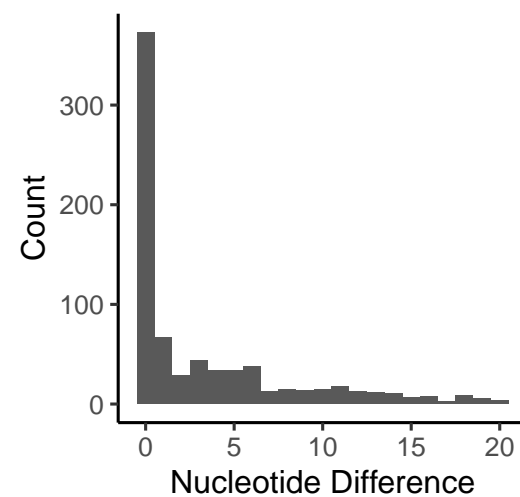
IGHV2-26*01

59 sequences assigned
36 (61%) exact matches, in which:
36 unique CDR3
5 unique J



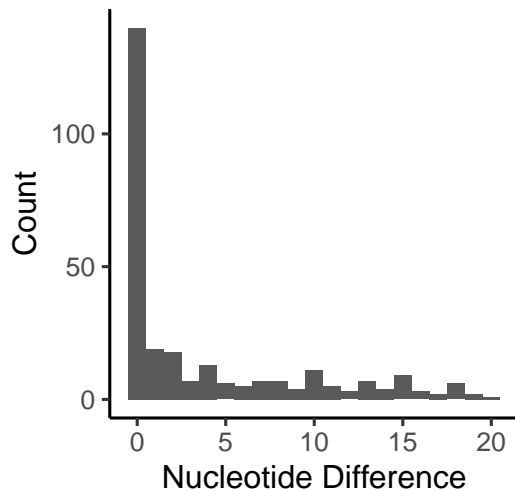
IGHV3-9*01

781 sequences assigned
373 (47.8%) exact matches, in which:
372 unique CDR3
6 unique J



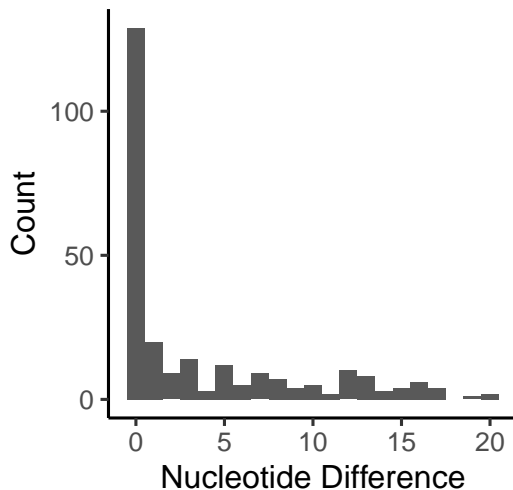
IGHV3-11*01

287 sequences assigned
140 (48.8%) exact matches, in which:
140 unique CDR3
6 unique J



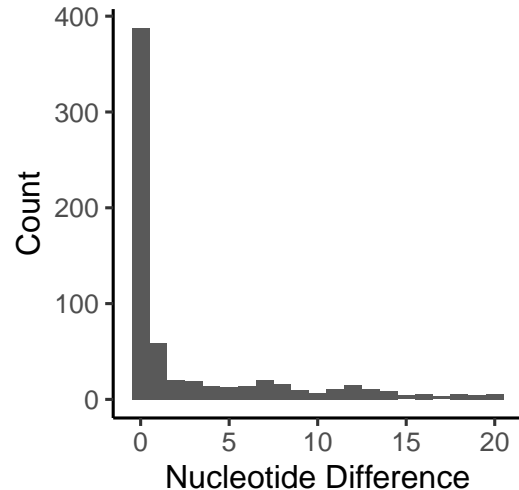
IGHV3-15*07

279 sequences assigned
129 (46.2%) exact matches, in which:
129 unique CDR3
5 unique J



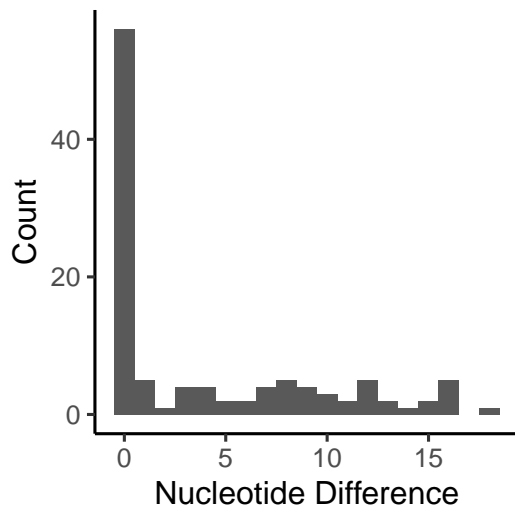
IGHV3-21*01

688 sequences assigned
388 (56.4%) exact matches, in which:
387 unique CDR3
6 unique J



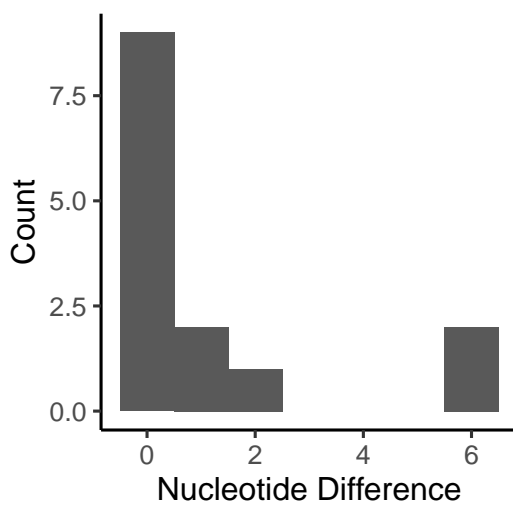
IGHV3-13*01

114 sequences assigned
56 (49.1%) exact matches, in which:
56 unique CDR3
5 unique J



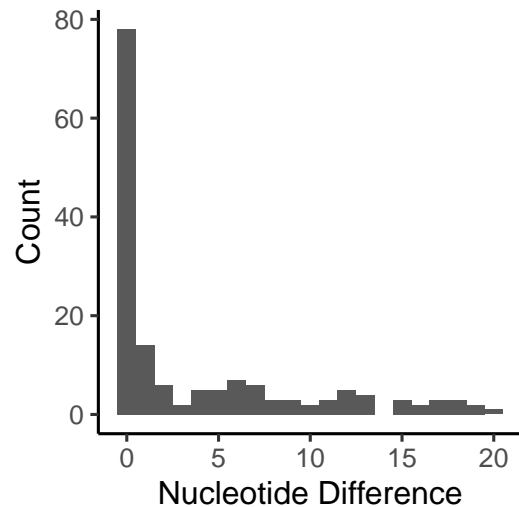
IGHV3-20*01

14 sequences assigned
9 (64.3%) exact matches, in which:
9 unique CDR3
4 unique J



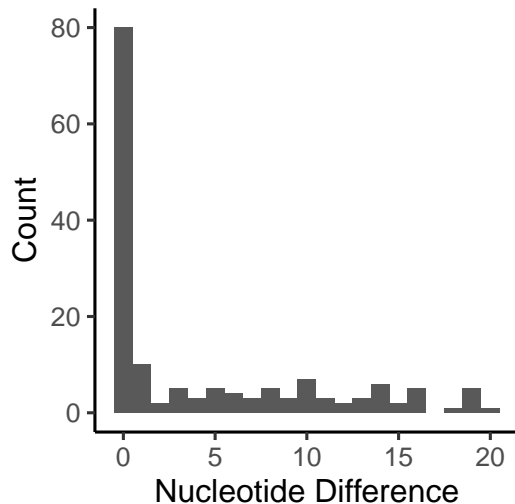
IGHV3-30*18_C75G

172 sequences assigned
78 (45.3%) exact matches, in which:
78 unique CDR3
6 unique J



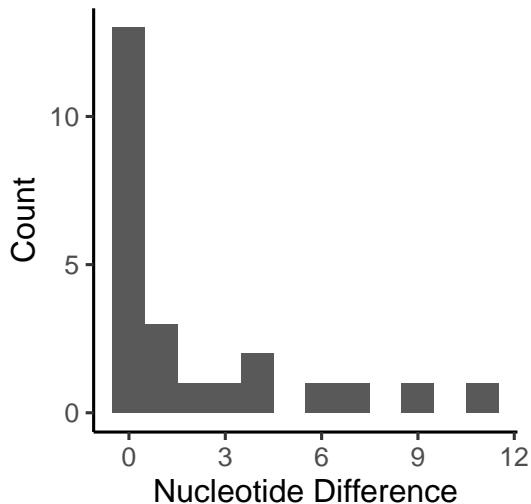
IGHV3-15*01

168 sequences assigned
80 (47.6%) exact matches, in which:
80 unique CDR3
4 unique J



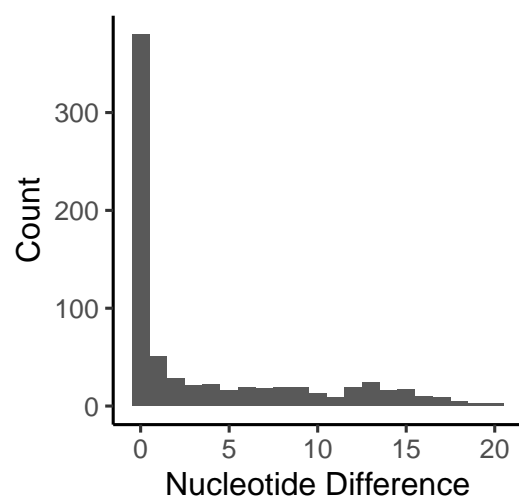
IGHV3-20*04

26 sequences assigned
13 (50%) exact matches, in which:
13 unique CDR3
3 unique J



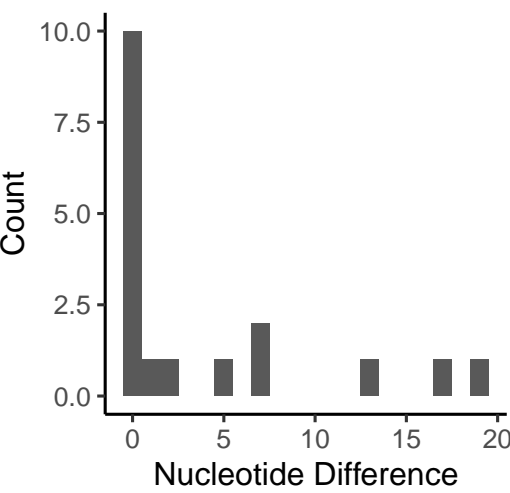
IGHV3-33*01

747 sequences assigned
380 (50.9%) exact matches, in which:
380 unique CDR3
6 unique J



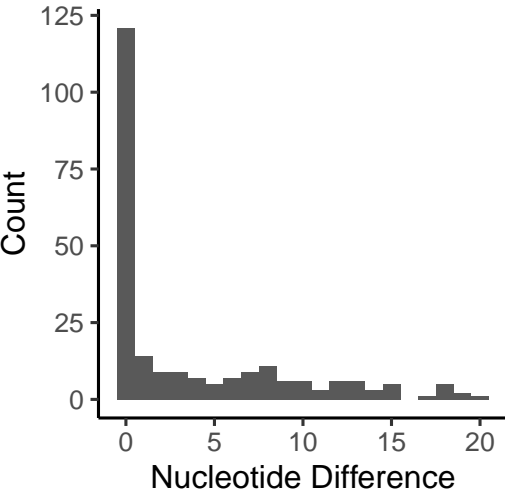
IGHV3-43*01

18 sequences assigned
10 (55.6%) exact matches, in which:
10 unique CDR3
3 unique J



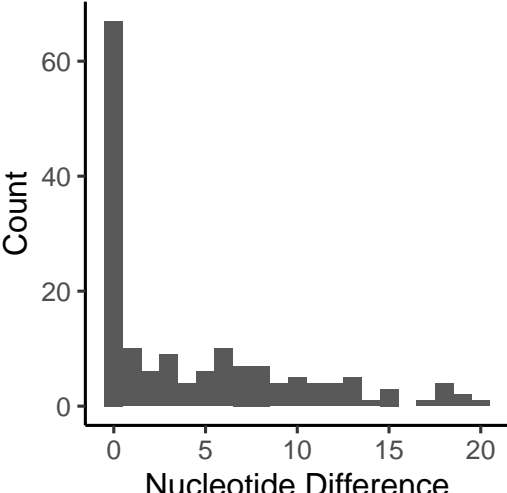
IGHV3-48*02

245 sequences assigned
121 (49.4%) exact matches, in which:
121 unique CDR3
6 unique J



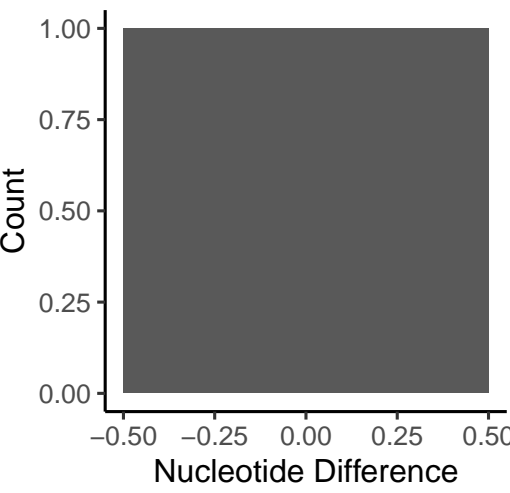
IGHV3-53*01

177 sequences assigned
67 (37.9%) exact matches, in which:
67 unique CDR3
5 unique J



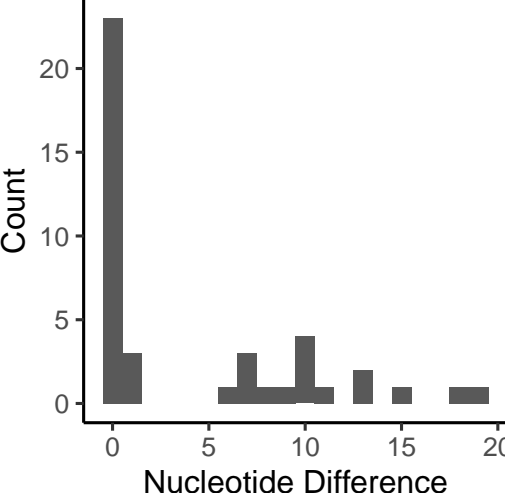
IGHV3-47*02

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



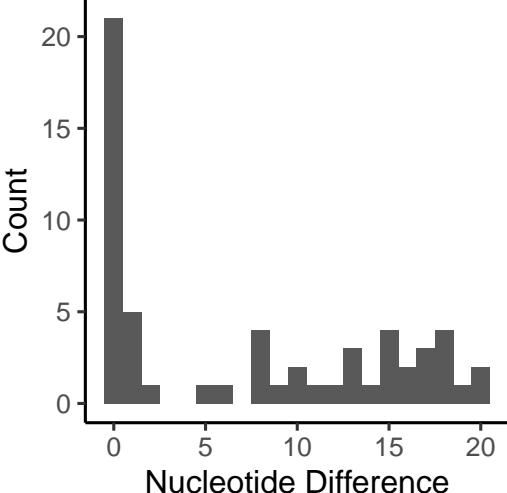
IGHV3-49*03

47 sequences assigned
23 (48.9%) exact matches, in which:
23 unique CDR3
5 unique J



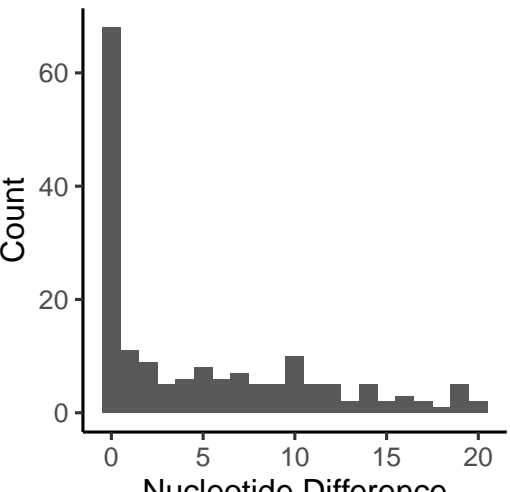
IGHV3-53*02

63 sequences assigned
21 (33.3%) exact matches, in which:
21 unique CDR3
4 unique J



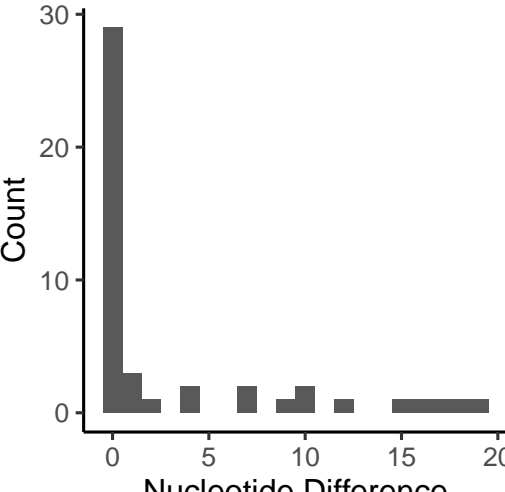
IGHV3-48*01

180 sequences assigned
68 (37.8%) exact matches, in which:
68 unique CDR3
6 unique J



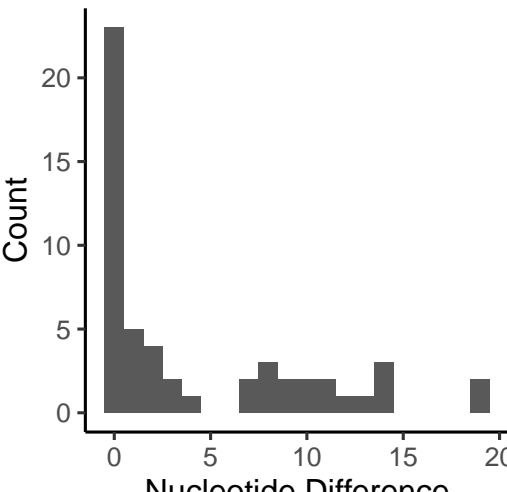
IGHV3-49*05

49 sequences assigned
29 (59.2%) exact matches, in which:
29 unique CDR3
4 unique J



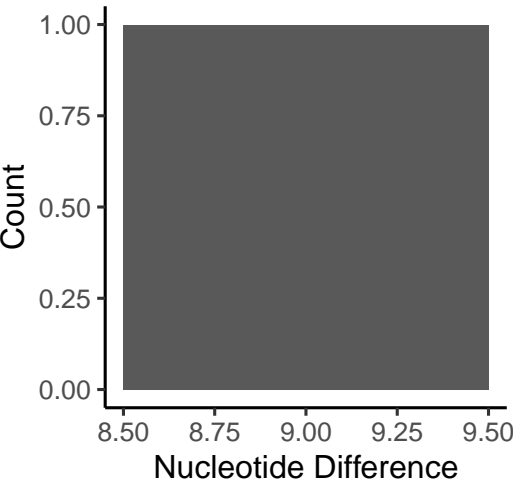
IGHV3-64*01

60 sequences assigned
23 (38.3%) exact matches, in which:
23 unique CDR3
6 unique J



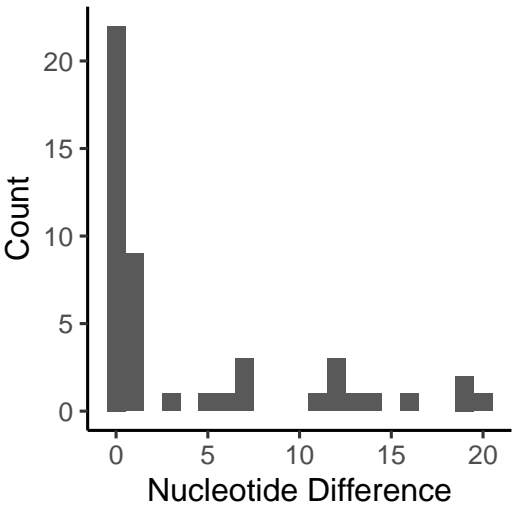
IGHV3-66*03

1 sequences assigned
No exact matches.



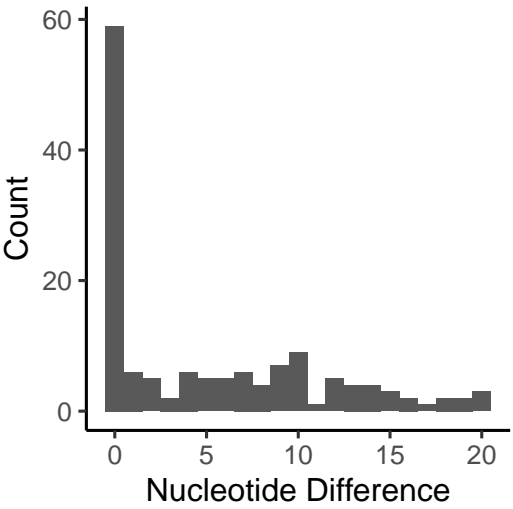
IGHV3-73*01

49 sequences assigned
22 (44.9%) exact matches, in which:
22 unique CDR3
5 unique J



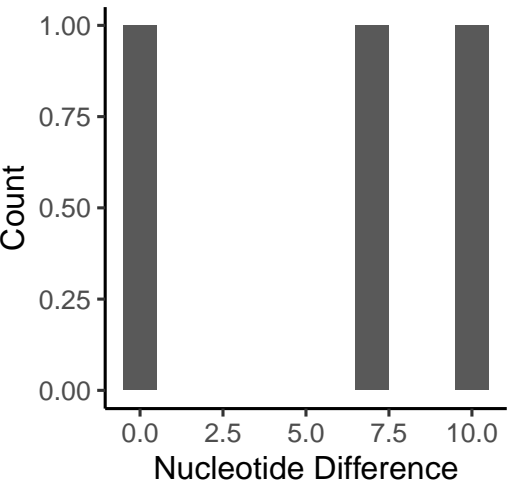
IGHV4-4*07

151 sequences assigned
59 (39.1%) exact matches, in which:
59 unique CDR3
5 unique J



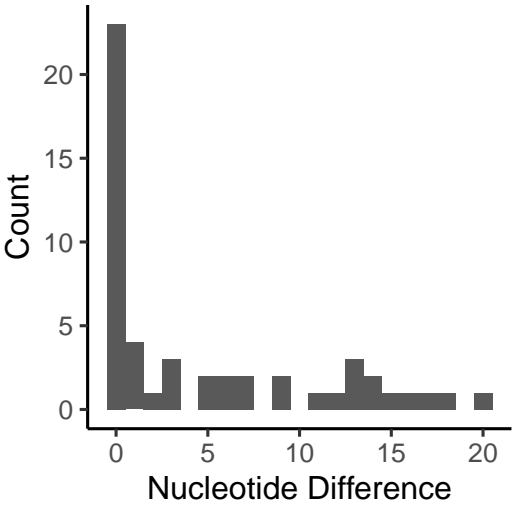
IGHV3-69-1*01

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



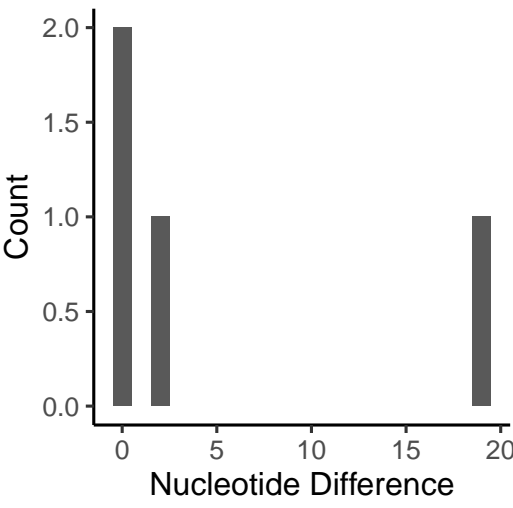
IGHV3-73*02

53 sequences assigned
23 (43.4%) exact matches, in which:
22 unique CDR3
4 unique J



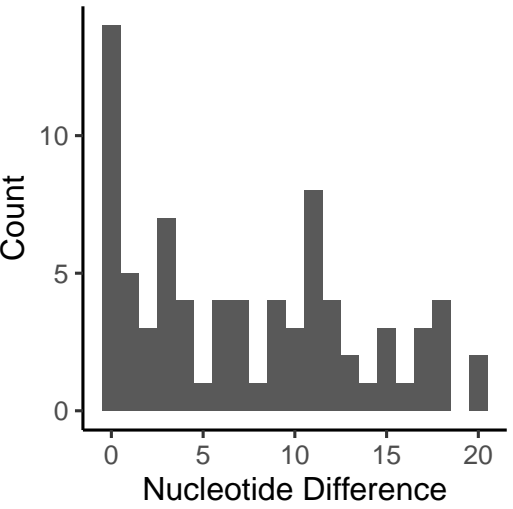
IGHV4-28*01

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



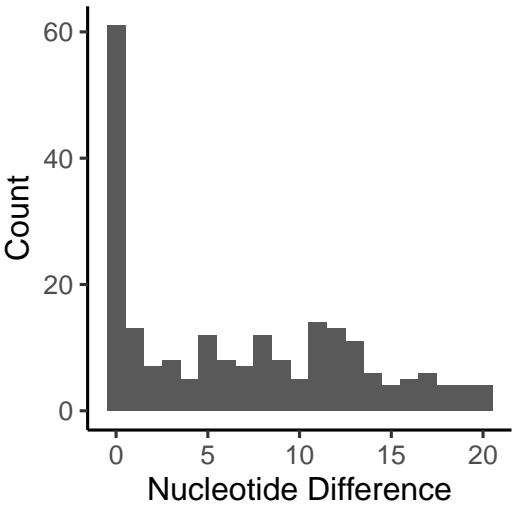
IGHV3-72*01

89 sequences assigned
14 (15.7%) exact matches, in which:
14 unique CDR3
2 unique J



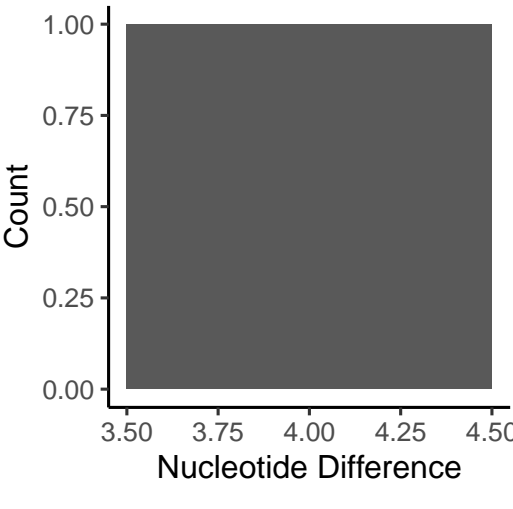
IGHV3-74*01

233 sequences assigned
61 (26.2%) exact matches, in which:
61 unique CDR3
5 unique J



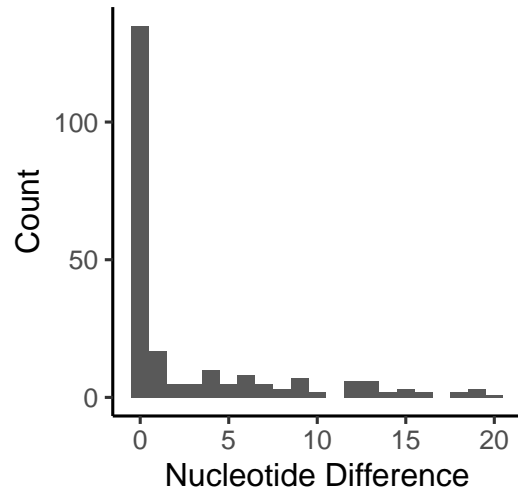
IGHV4-28*03

2 sequences assigned
No exact matches.



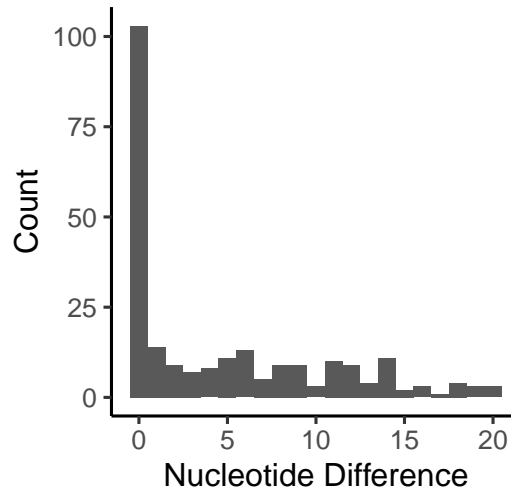
IGHV4-31*03

240 sequences assigned
135 (56.2%) exact matches, in which:
134 unique CDR3
6 unique J



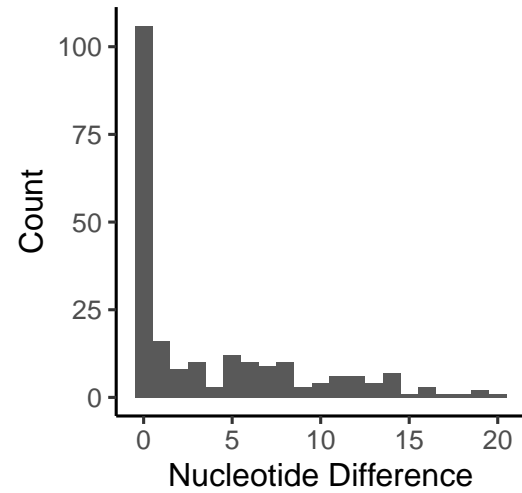
IGHV4-59*01

259 sequences assigned
103 (39.8%) exact matches, in which:
103 unique CDR3
5 unique J



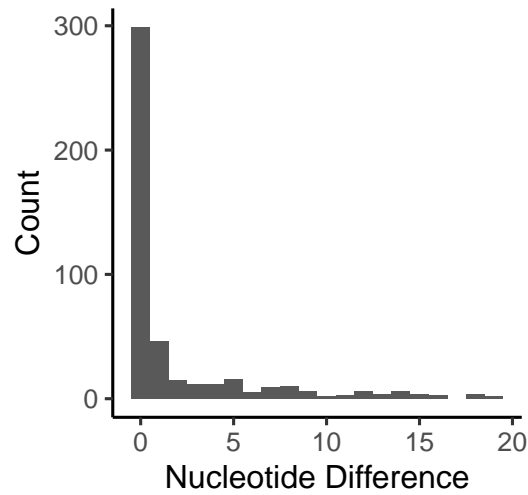
IGHV5-51*01

228 sequences assigned
106 (46.5%) exact matches, in which:
106 unique CDR3
6 unique J



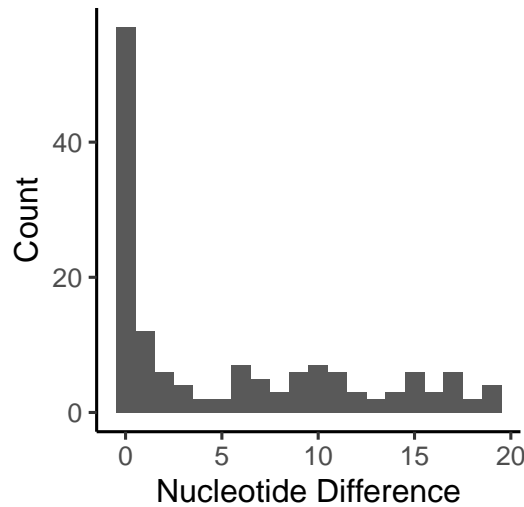
IGHV4-34*01

484 sequences assigned
299 (61.8%) exact matches, in which:
297 unique CDR3
6 unique J



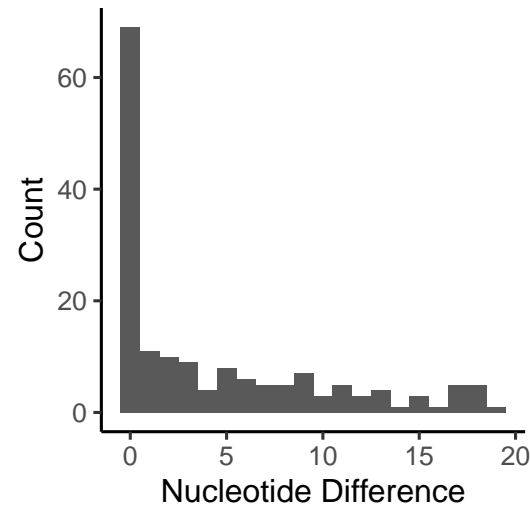
IGHV4-59*08

155 sequences assigned
57 (36.8%) exact matches, in which:
57 unique CDR3
6 unique J



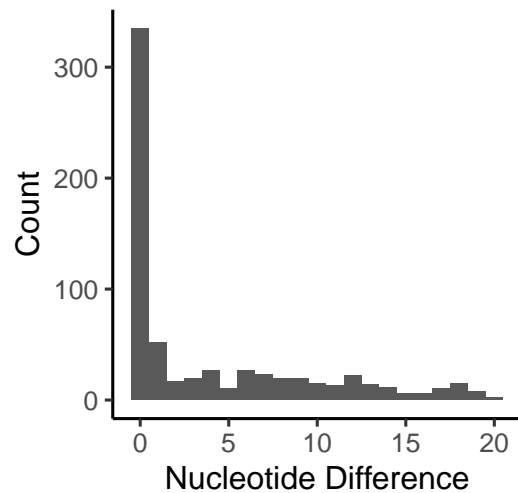
IGHV5-51*01_C45G

173 sequences assigned
69 (39.9%) exact matches, in which:
69 unique CDR3
5 unique J



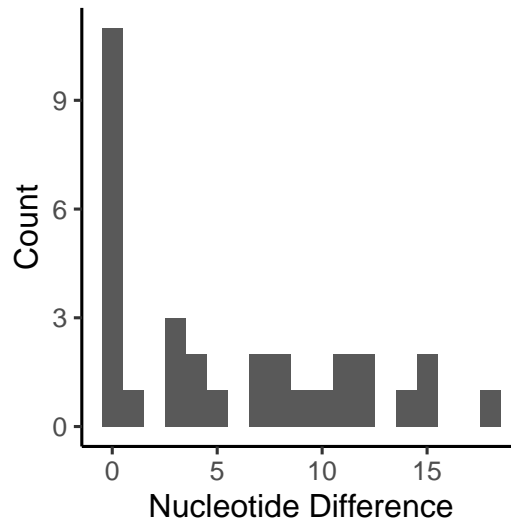
IGHV4-39*01

723 sequences assigned
335 (46.3%) exact matches, in which:
334 unique CDR3
6 unique J



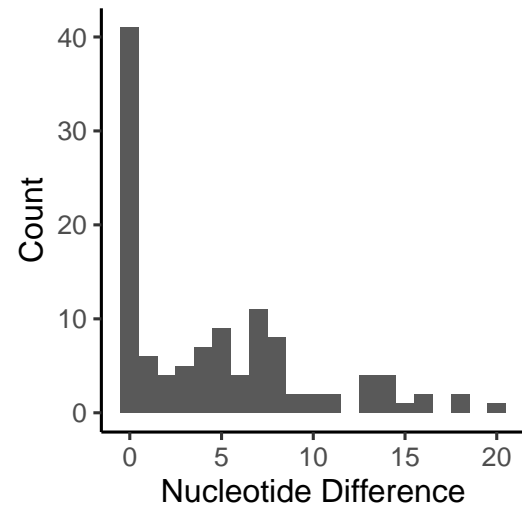
IGHV4-61*01

36 sequences assigned
11 (30.6%) exact matches, in which:
11 unique CDR3
3 unique J



IGHV6-1*01

119 sequences assigned
41 (34.5%) exact matches, in which:
41 unique CDR3
5 unique J





Warning – no inferred sequences found.