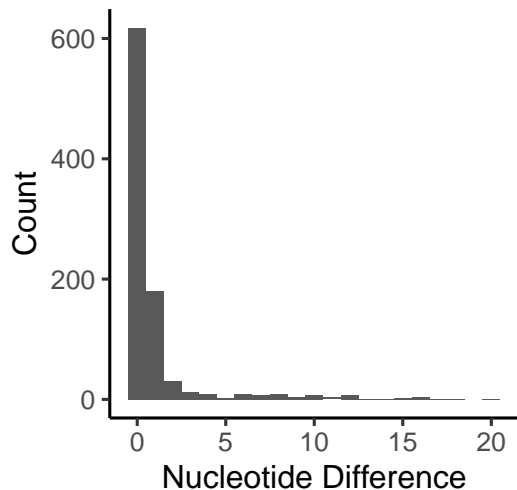


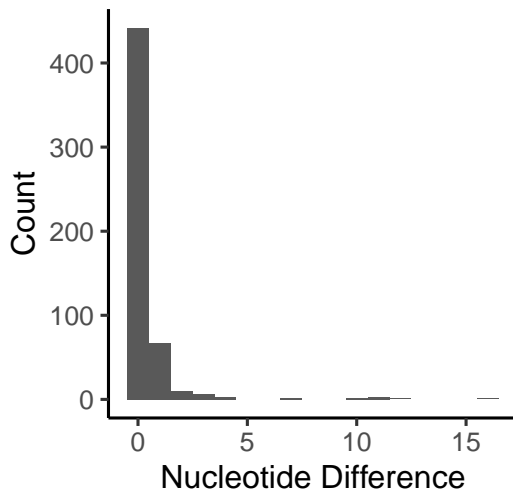
IGHV1-2*02

918 sequences assigned
618 (67.3%) exact matches, in which:
617 unique CDR3
6 unique J



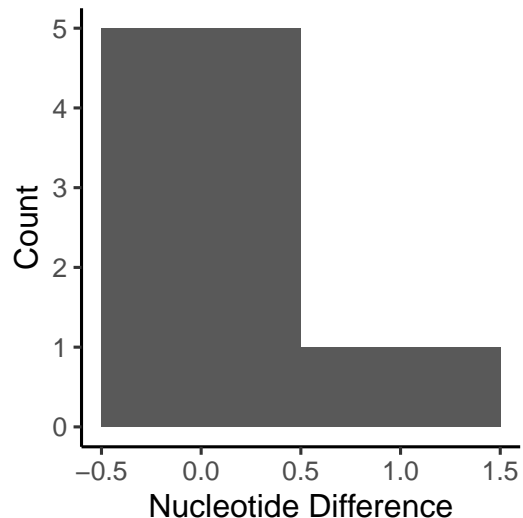
IGHV1-8*01

537 sequences assigned
442 (82.3%) exact matches, in which:
440 unique CDR3
7 unique J



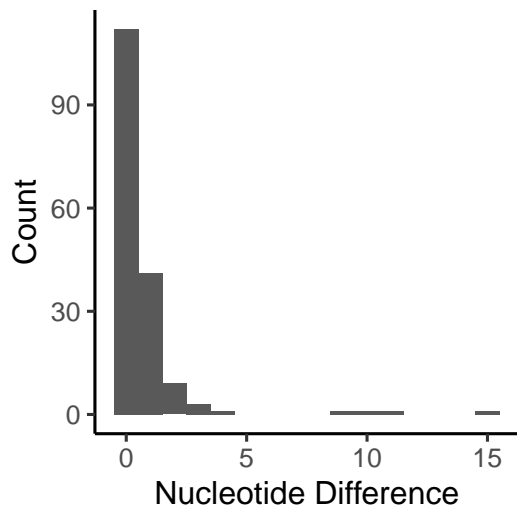
IGHV1-45*02

6 sequences assigned
5 (83.3%) exact matches, in which:
5 unique CDR3
3 unique J



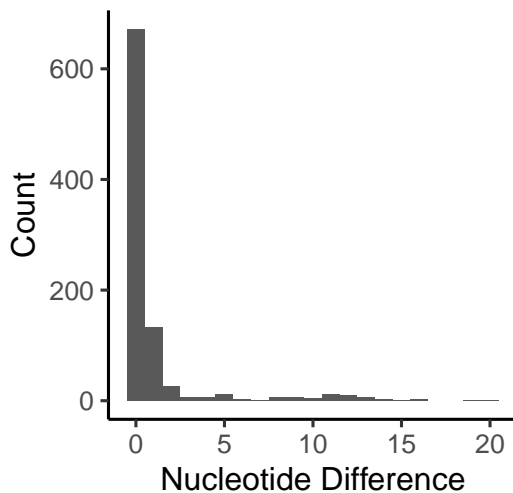
IGHV1-2*04

170 sequences assigned
112 (65.9%) exact matches, in which:
110 unique CDR3
6 unique J



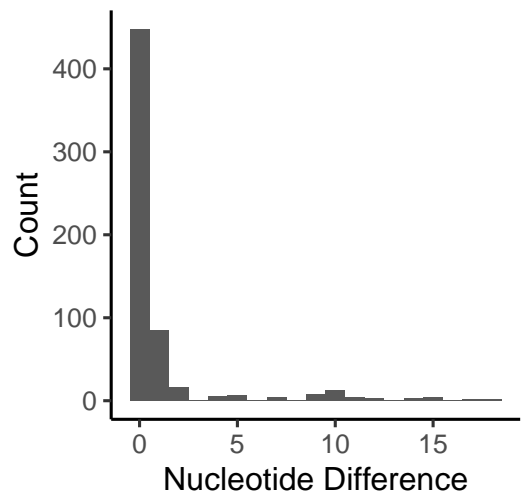
IGHV1-18*01

919 sequences assigned
672 (73.1%) exact matches, in which:
670 unique CDR3
7 unique J



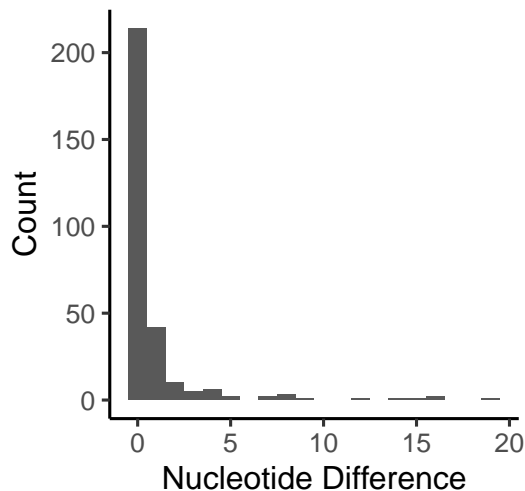
IGHV1-46*01

615 sequences assigned
448 (72.8%) exact matches, in which:
446 unique CDR3
7 unique J



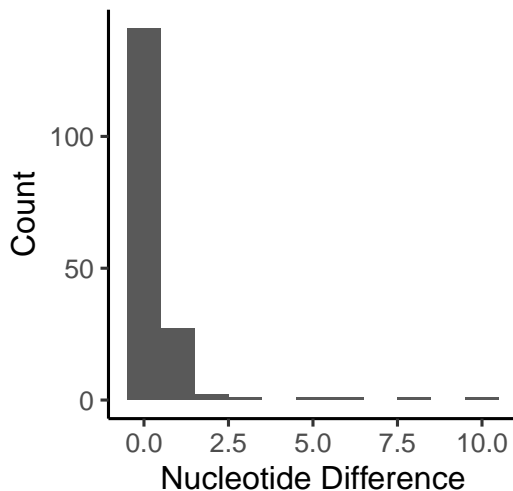
IGHV1-3*01

293 sequences assigned
214 (73%) exact matches, in which:
213 unique CDR3
6 unique J



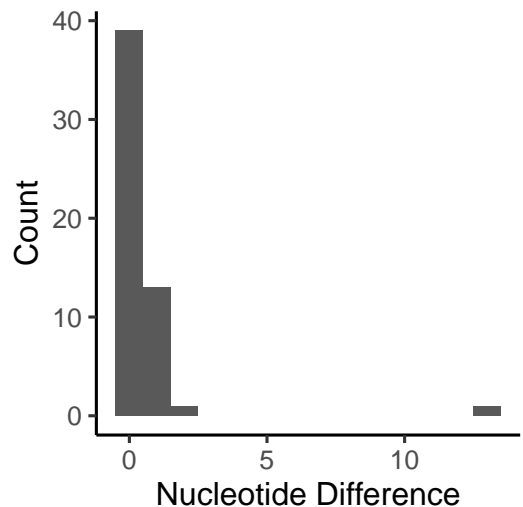
IGHV1-24*01

175 sequences assigned
141 (80.6%) exact matches, in which:
141 unique CDR3
7 unique J



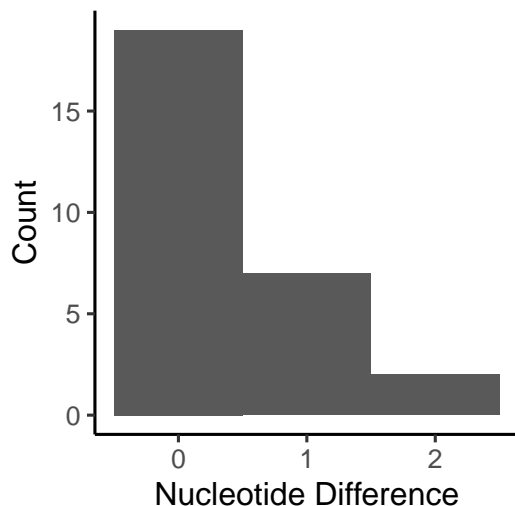
IGHV1-58*01

54 sequences assigned
39 (72.2%) exact matches, in which:
39 unique CDR3
5 unique J



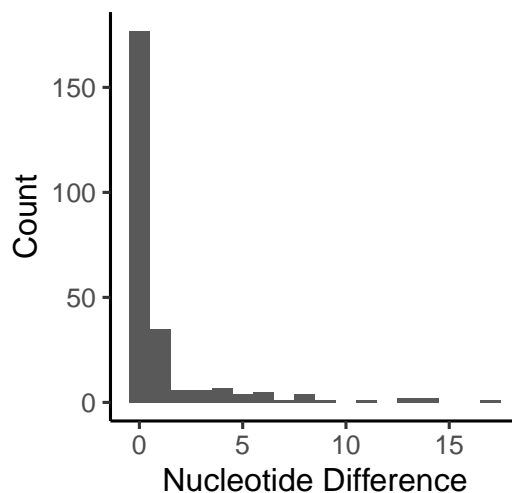
IGHV1-58*02

28 sequences assigned
19 (67.9%) exact matches, in which:
19 unique CDR3
4 unique J



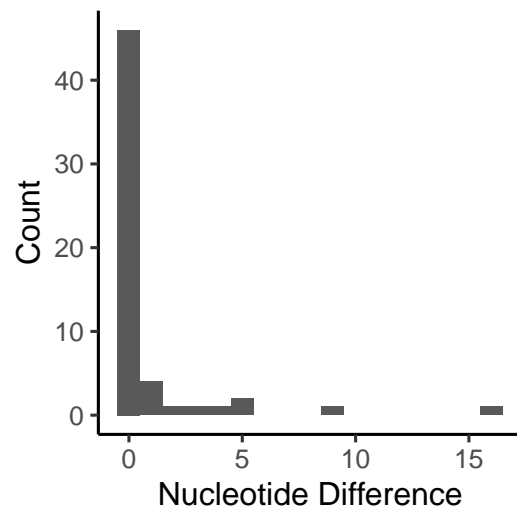
IGHV2-5*01

252 sequences assigned
177 (70.2%) exact matches, in which:
176 unique CDR3
6 unique J



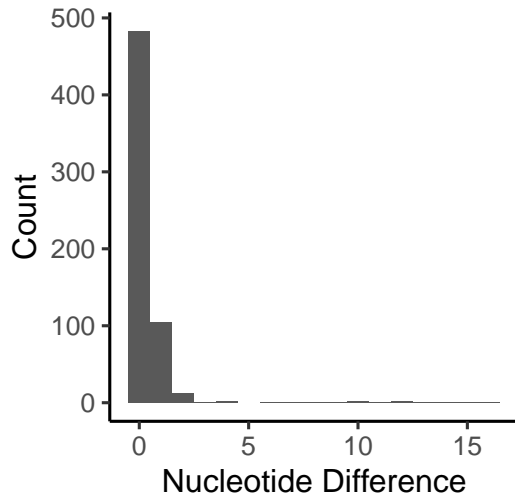
IGHV2-70*01

58 sequences assigned
46 (79.3%) exact matches, in which:
46 unique CDR3
5 unique J



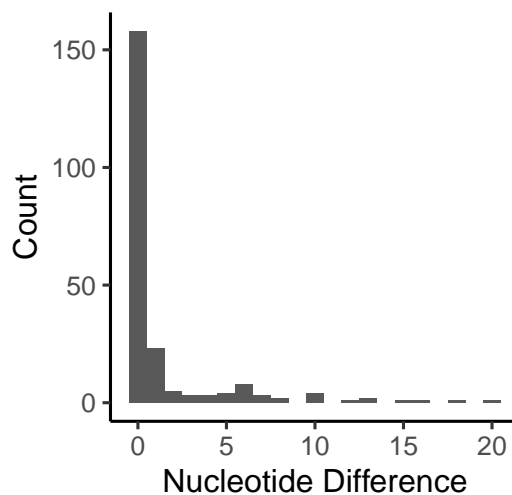
IGHV1-69*04

621 sequences assigned
483 (77.8%) exact matches, in which:
479 unique CDR3
6 unique J



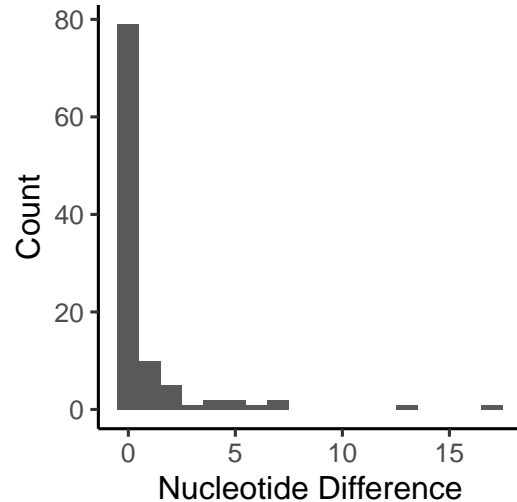
IGHV2-5*02

222 sequences assigned
158 (71.2%) exact matches, in which:
158 unique CDR3
6 unique J



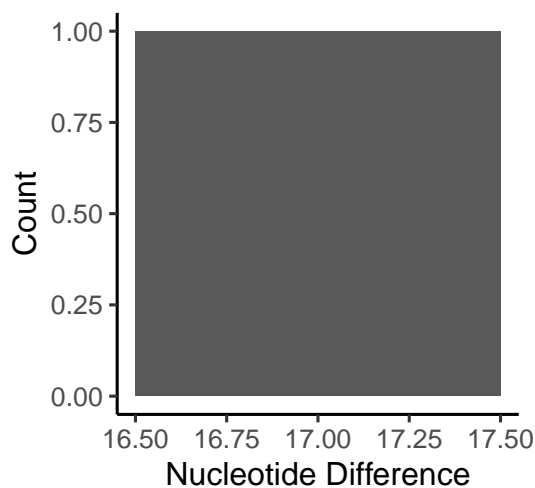
IGHV2-70*15

107 sequences assigned
79 (73.8%) exact matches, in which:
79 unique CDR3
4 unique J



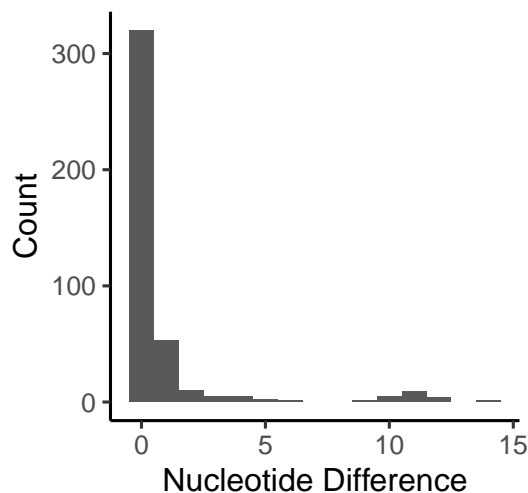
IGHV1-NL1*01

1 sequences assigned
No exact matches.



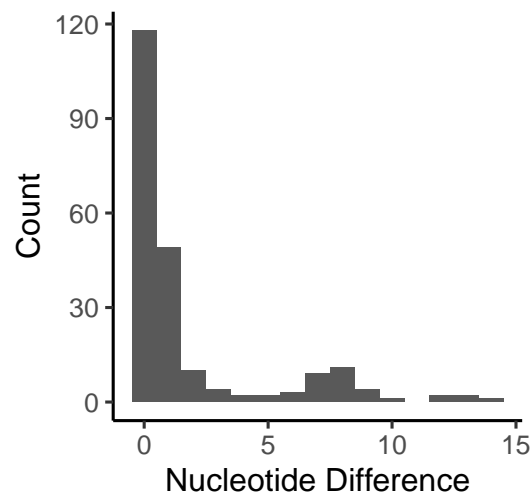
IGHV2-26*01

416 sequences assigned
320 (76.9%) exact matches, in which:
320 unique CDR3
7 unique J



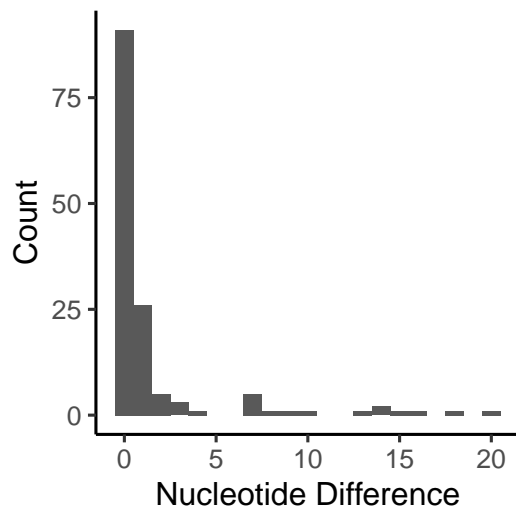
IGHV3-7*01

218 sequences assigned
118 (54.1%) exact matches, in which:
118 unique CDR3
6 unique J



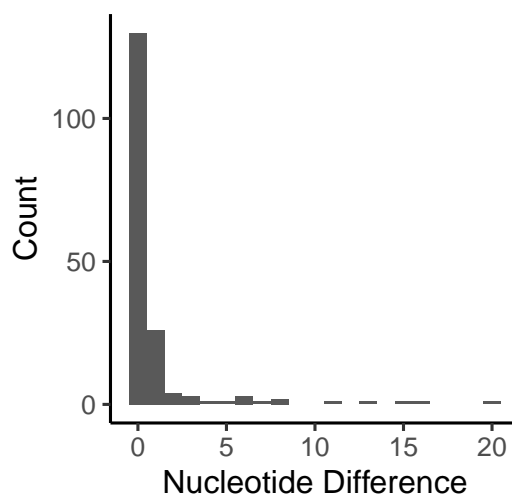
IGHV3-7*03

142 sequences assigned
91 (64.1%) exact matches, in which:
91 unique CDR3
5 unique J



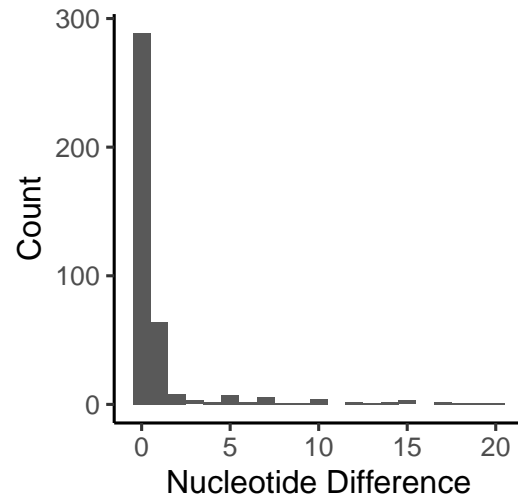
IGHV3-11*06

177 sequences assigned
130 (73.4%) exact matches, in which:
130 unique CDR3
6 unique J



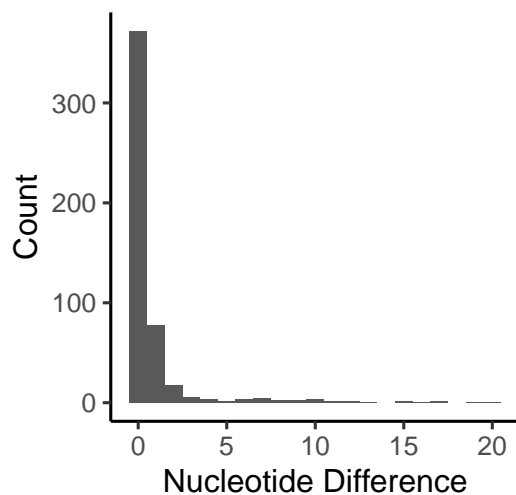
IGHV3-15*01

411 sequences assigned
289 (70.3%) exact matches, in which:
289 unique CDR3
7 unique J



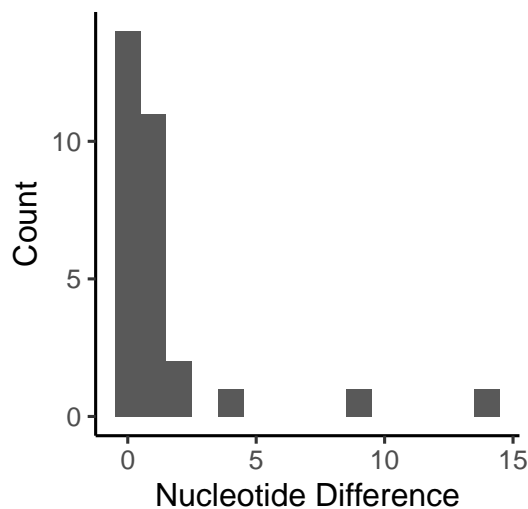
IGHV3-9*01

512 sequences assigned
372 (72.7%) exact matches, in which:
370 unique CDR3
6 unique J



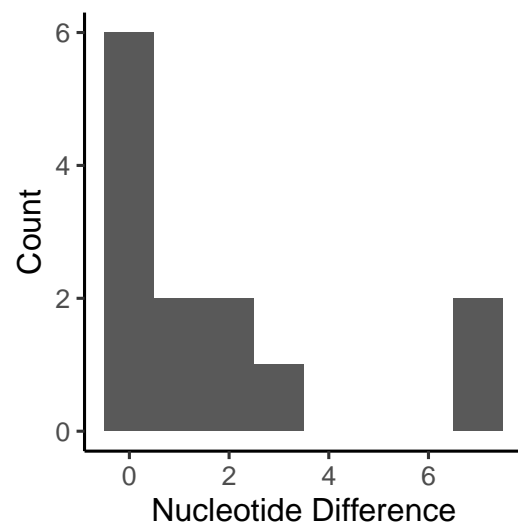
IGHV3-13*01

30 sequences assigned
14 (46.7%) exact matches, in which:
14 unique CDR3
4 unique J



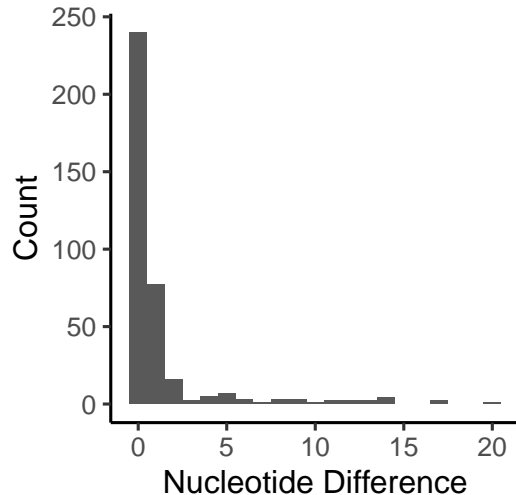
IGHV3-20*01

13 sequences assigned
6 (46.2%) exact matches, in which:
6 unique CDR3
3 unique J



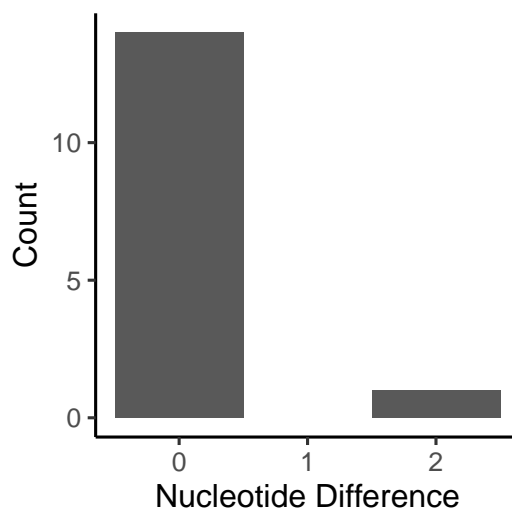
IGHV3-11*01

377 sequences assigned
240 (63.7%) exact matches, in which:
240 unique CDR3
6 unique J



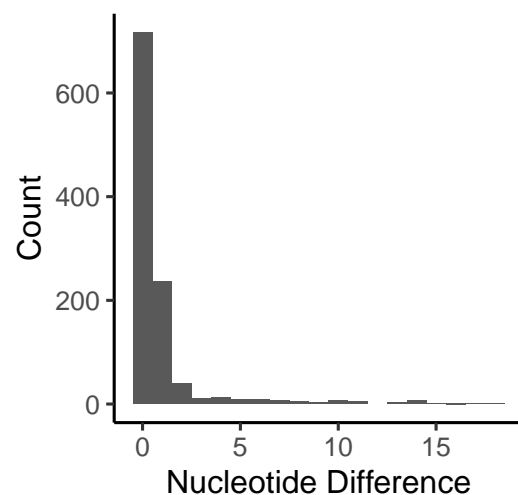
IGHV3-13*05

15 sequences assigned
14 (93.3%) exact matches, in which:
14 unique CDR3
5 unique J



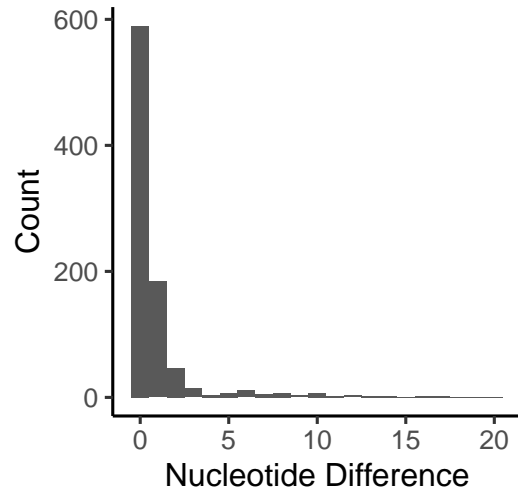
IGHV3-21*01

1073 sequences assigned
717 (66.8%) exact matches, in which:
715 unique CDR3
7 unique J



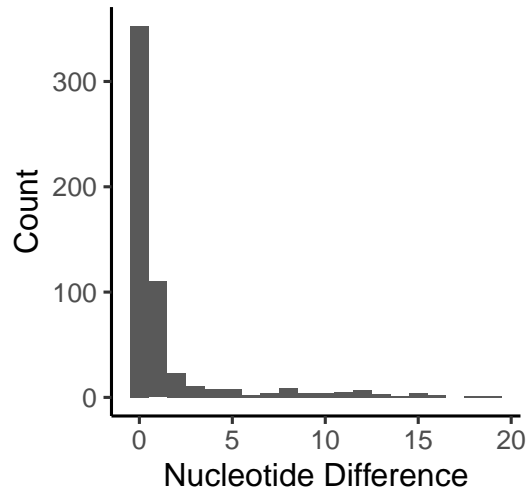
IGHV3-30-3*01

904 sequences assigned
590 (65.3%) exact matches, in which:
588 unique CDR3
7 unique J



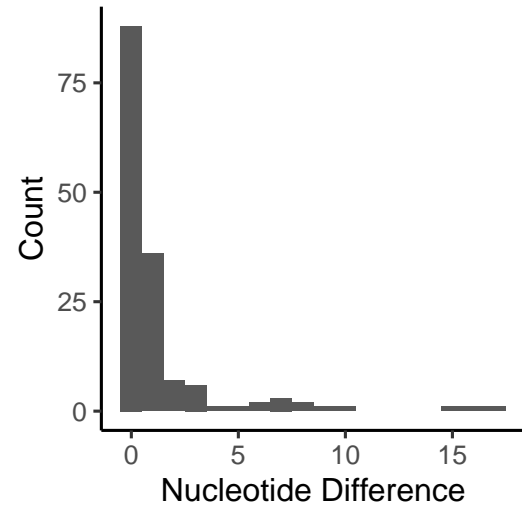
IGHV3-33*01

562 sequences assigned
353 (62.8%) exact matches, in which:
353 unique CDR3
7 unique J



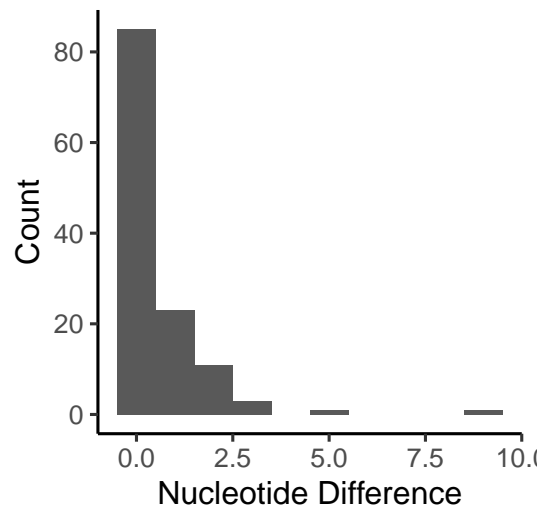
IGHV3-43*02

152 sequences assigned
88 (57.9%) exact matches, in which:
88 unique CDR3
5 unique J



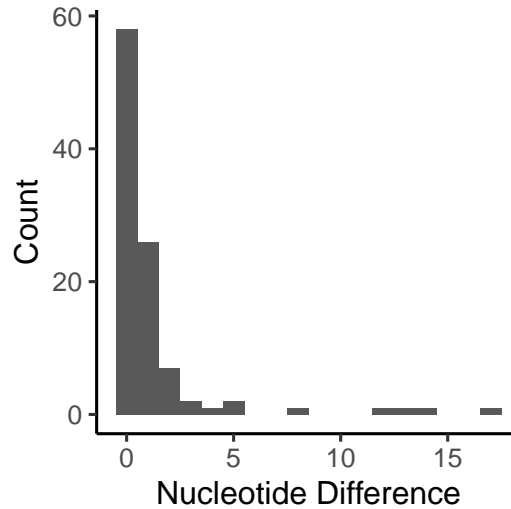
IGHV3-30-3*01_T158G

126 sequences assigned
85 (67.5%) exact matches, in which:
85 unique CDR3
5 unique J



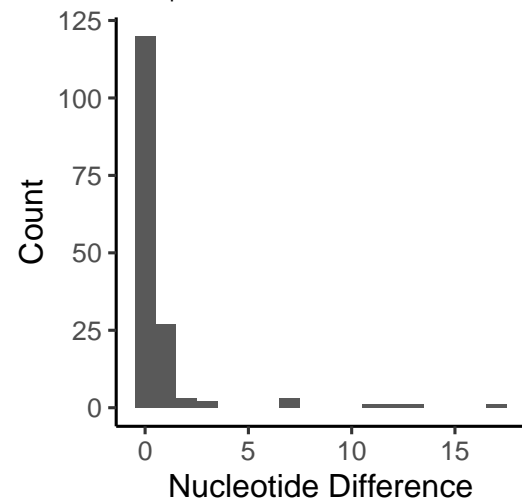
IGHV3-33*01_T158G

102 sequences assigned
58 (56.9%) exact matches, in which:
58 unique CDR3
6 unique J



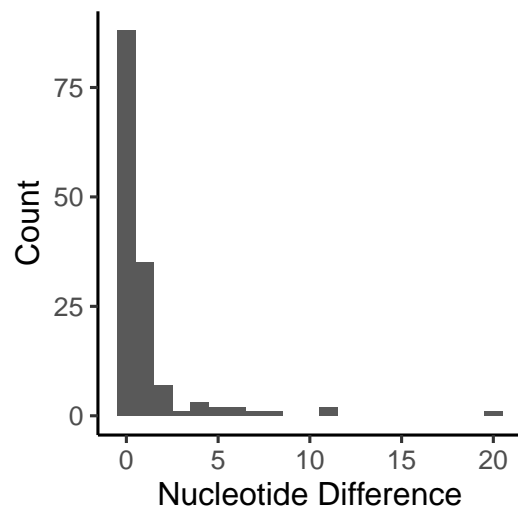
IGHV3-48*02

160 sequences assigned
120 (75%) exact matches, in which:
120 unique CDR3
6 unique J



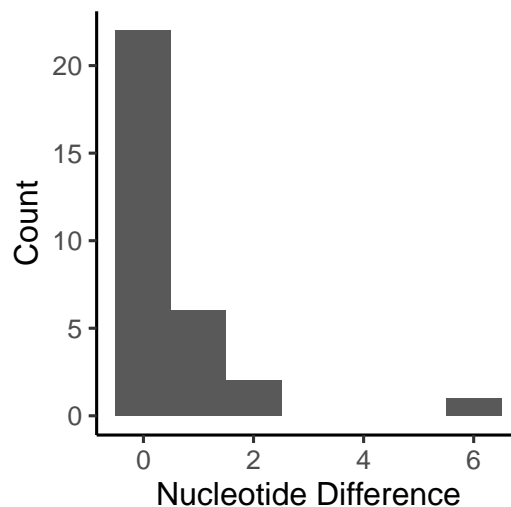
IGHV3-30*18_T158G

146 sequences assigned
88 (60.3%) exact matches, in which:
88 unique CDR3
7 unique J



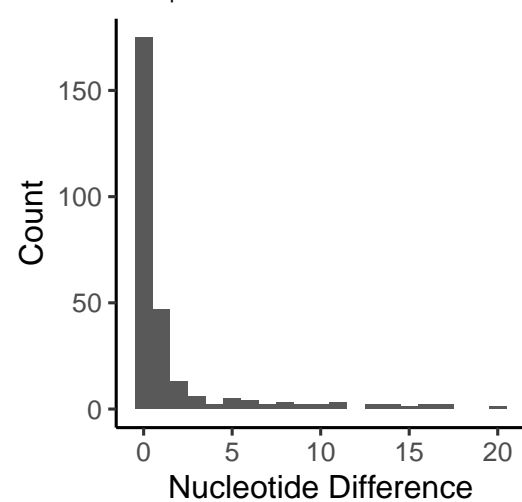
IGHV3-43*01

31 sequences assigned
22 (71%) exact matches, in which:
22 unique CDR3
5 unique J



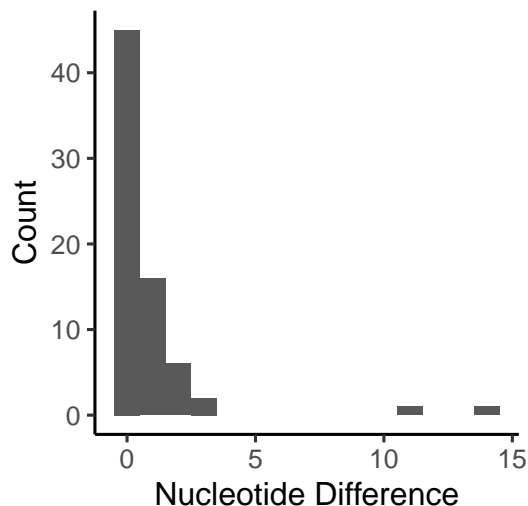
IGHV3-48*03

276 sequences assigned
175 (63.4%) exact matches, in which:
175 unique CDR3
6 unique J



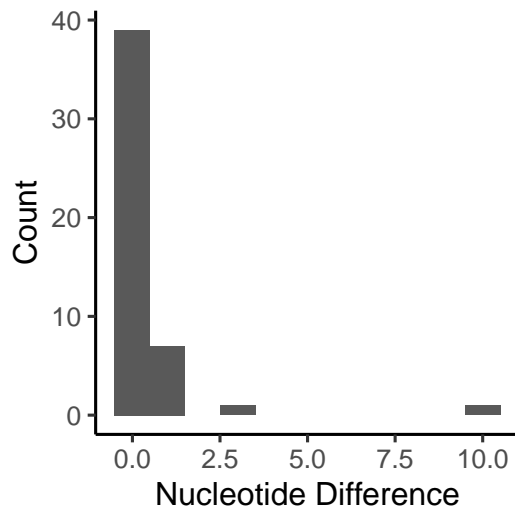
IGHV3-49*04

72 sequences assigned
45 (62.5%) exact matches, in which:
42 unique CDR3
5 unique J



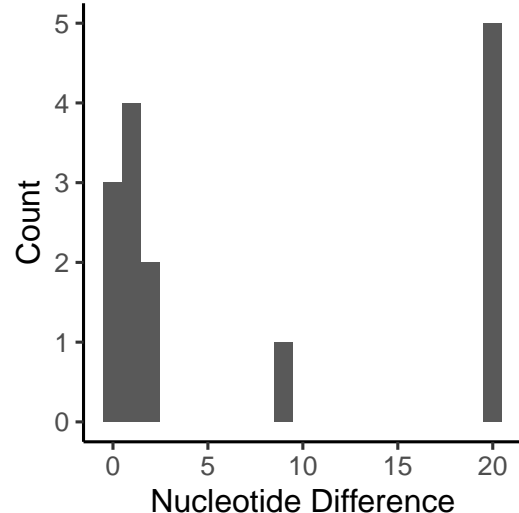
IGHV3-53*04

48 sequences assigned
39 (81.2%) exact matches, in which:
39 unique CDR3
5 unique J



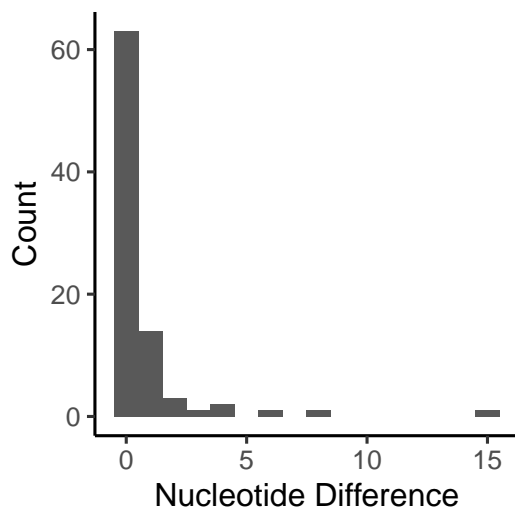
IGHV3-72*01

17 sequences assigned
3 (17.6%) exact matches, in which:
3 unique CDR3
2 unique J



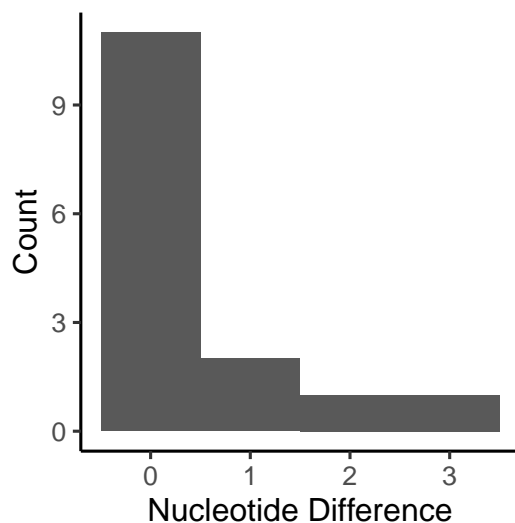
IGHV3-49*05

86 sequences assigned
63 (73.3%) exact matches, in which:
63 unique CDR3
6 unique J



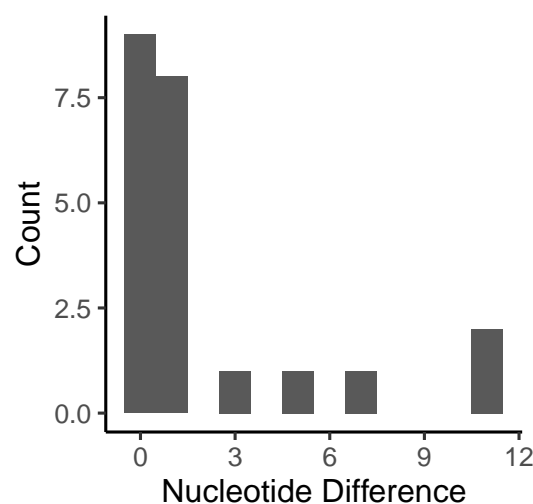
IGHV3-64*01

15 sequences assigned
11 (73.3%) exact matches, in which:
11 unique CDR3
2 unique J



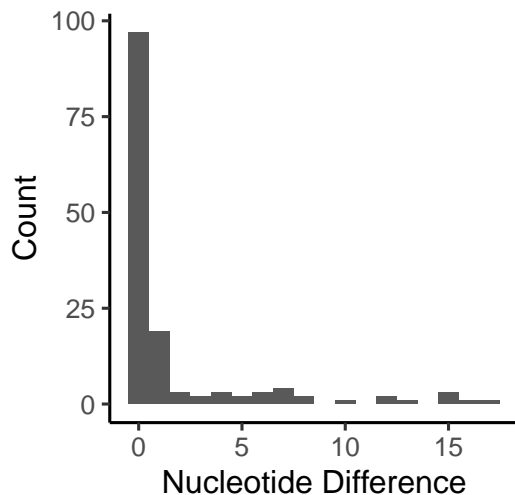
IGHV3-73*01

22 sequences assigned
9 (40.9%) exact matches, in which:
9 unique CDR3
3 unique J



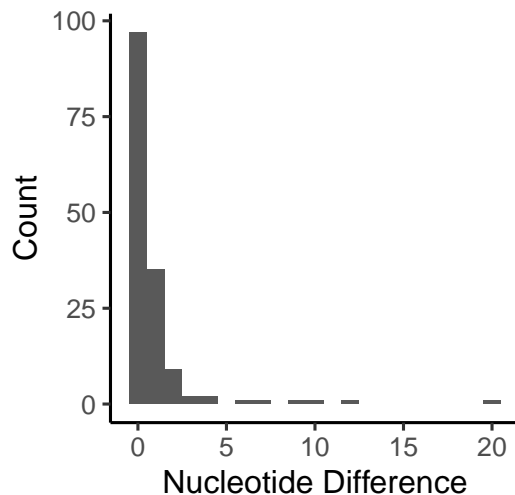
IGHV3-53*01

149 sequences assigned
97 (65.1%) exact matches, in which:
97 unique CDR3
6 unique J



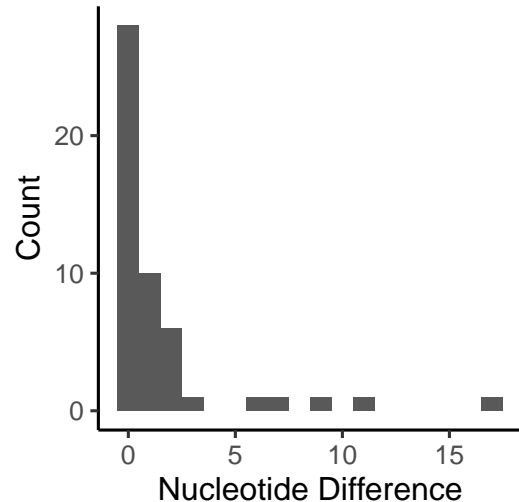
IGHV3-66*01

151 sequences assigned
97 (64.2%) exact matches, in which:
96 unique CDR3
6 unique J



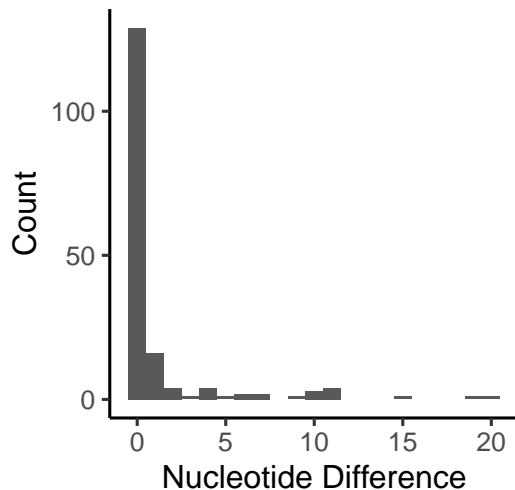
IGHV3-73*02

50 sequences assigned
28 (56%) exact matches, in which:
28 unique CDR3
4 unique J



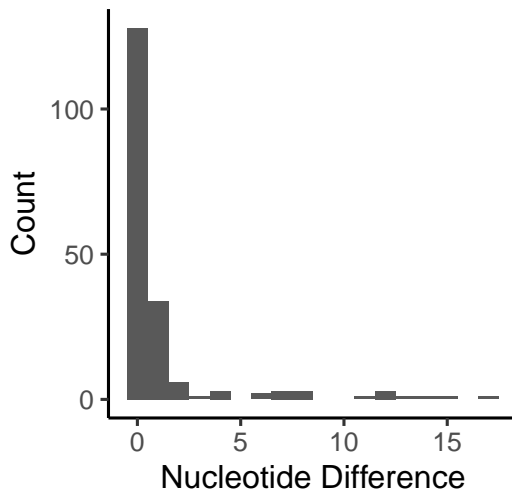
IGHV3-74*01

172 sequences assigned
129 (75%) exact matches, in which:
127 unique CDR3
7 unique J



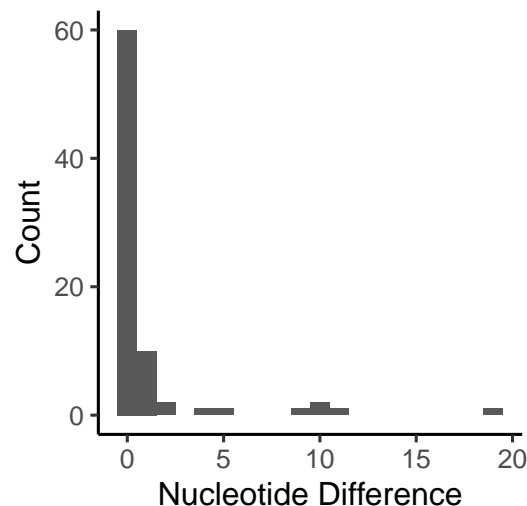
IGHV4-4*02_C20T

190 sequences assigned
128 (67.4%) exact matches, in which:
128 unique CDR3
6 unique J



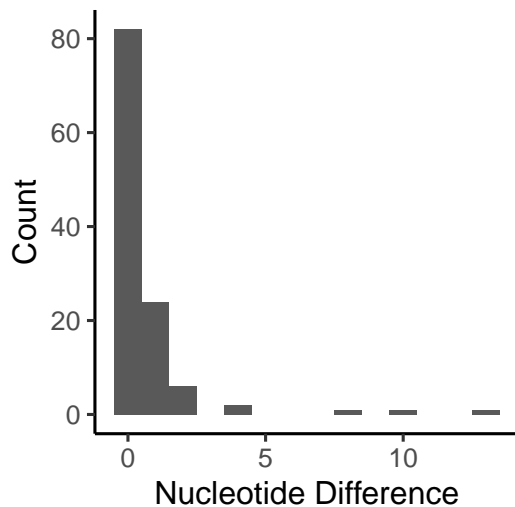
IGHV4-30-2*01

79 sequences assigned
60 (75.9%) exact matches, in which:
60 unique CDR3
6 unique J



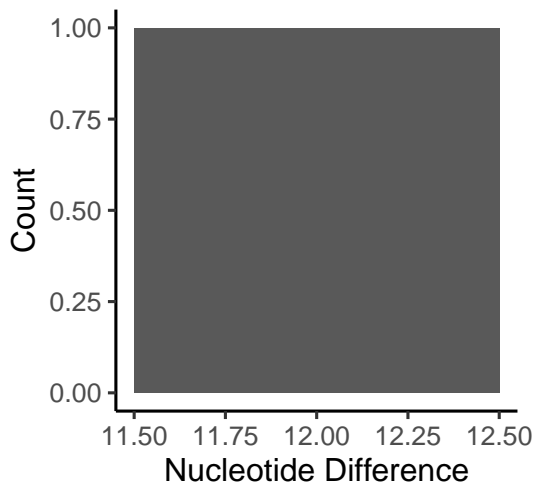
IGHV3-64D*06

118 sequences assigned
82 (69.5%) exact matches, in which:
82 unique CDR3
6 unique J



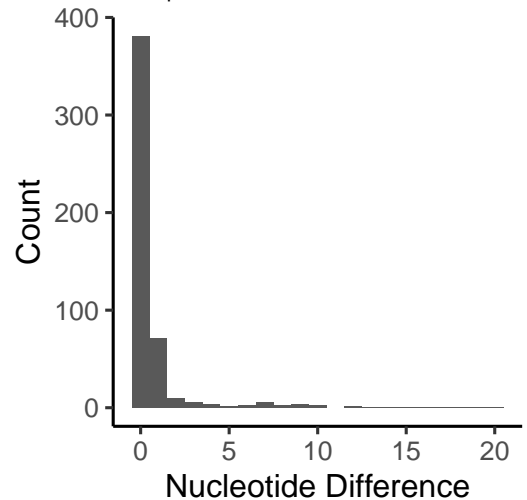
IGHV4-28*01

1 sequences assigned
No exact matches.



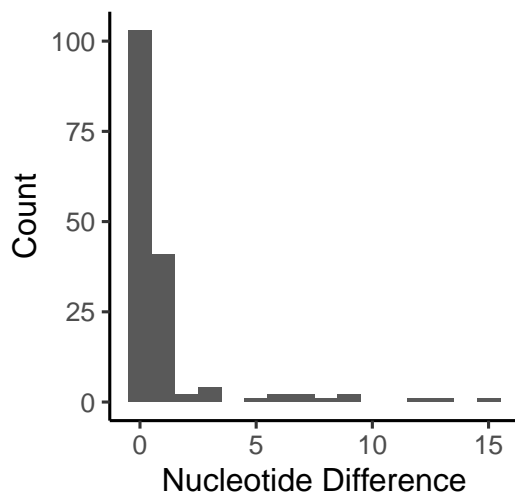
IGHV4-31*03

507 sequences assigned
381 (75.1%) exact matches, in which:
380 unique CDR3
7 unique J



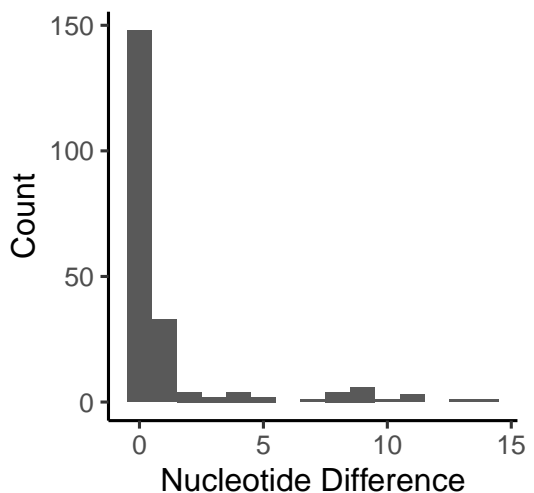
IGHV4-4*07

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



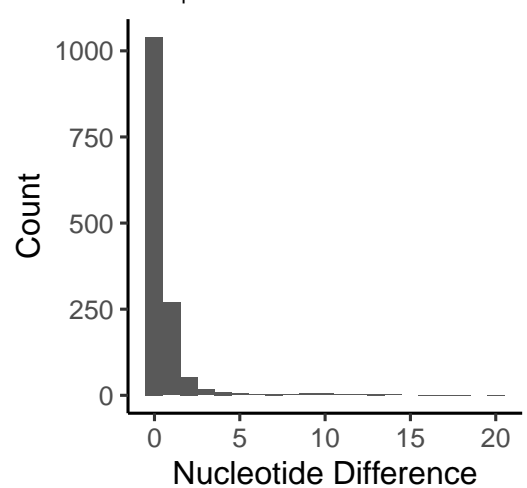
IGHV4-30-4*01

212 sequences assigned
148 (69.8%) exact matches, in which:
148 unique CDR3
5 unique J



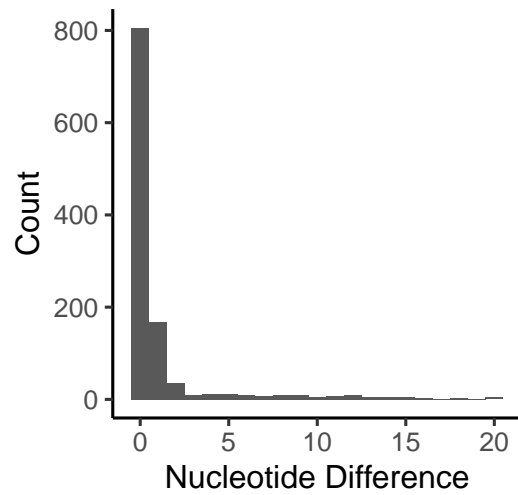
IGHV4-34*01

1426 sequences assigned
1040 (72.9%) exact matches, in which:
1035 unique CDR3
7 unique J



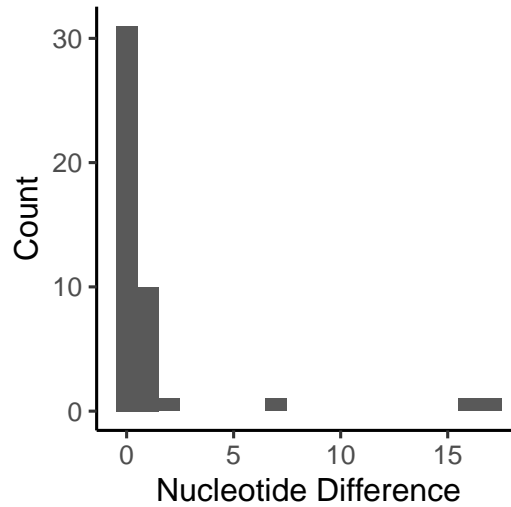
IGHV4–39*01

1140 sequences assigned
806 (70.7%) exact matches, in which:
804 unique CDR3
7 unique J



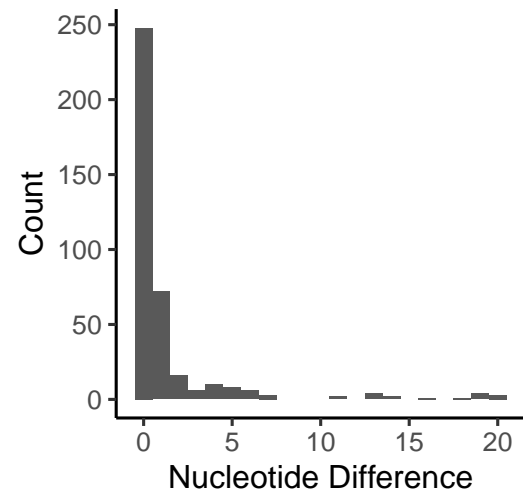
IGHV4–61*01

46 sequences assigned
31 (67.4%) exact matches, in which:
31 unique CDR3
4 unique J



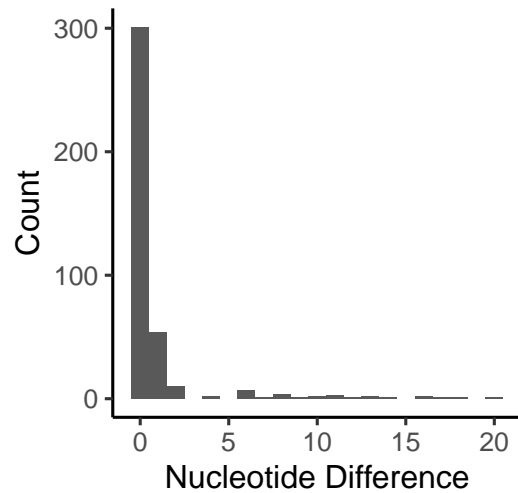
IGHV5–51*01

392 sequences assigned
248 (63.3%) exact matches, in which:
248 unique CDR3
6 unique J



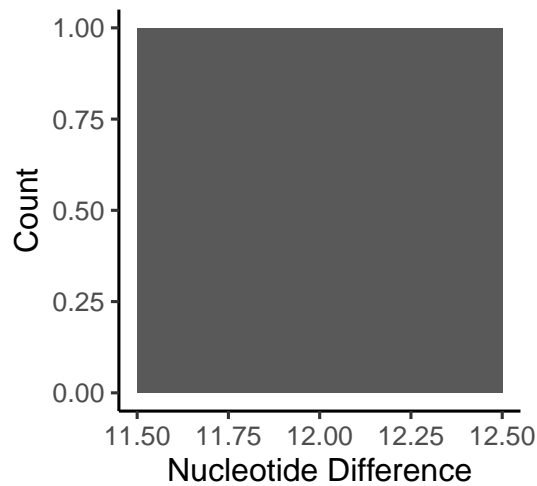
IGHV4–59*01

398 sequences assigned
301 (75.6%) exact matches, in which:
299 unique CDR3
7 unique J



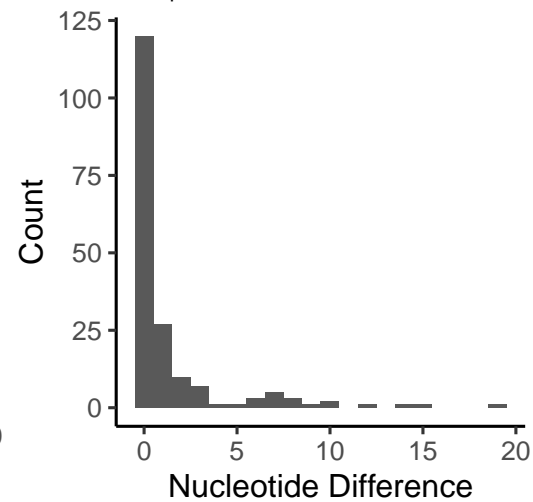
IGHV1/OR15–9*01

1 sequences assigned
No exact matches.



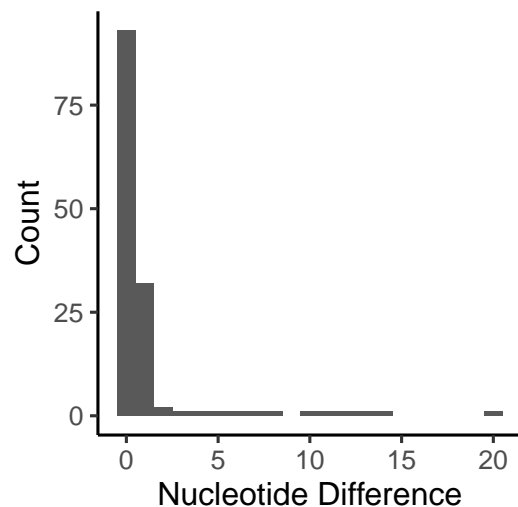
IGHV6–1*01

184 sequences assigned
120 (65.2%) exact matches, in which:
120 unique CDR3
6 unique J



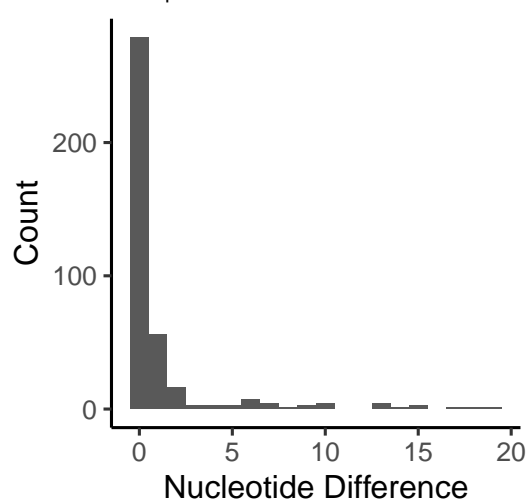
IGHV4–59*08

141 sequences assigned
93 (66%) exact matches, in which:
92 unique CDR3
6 unique J



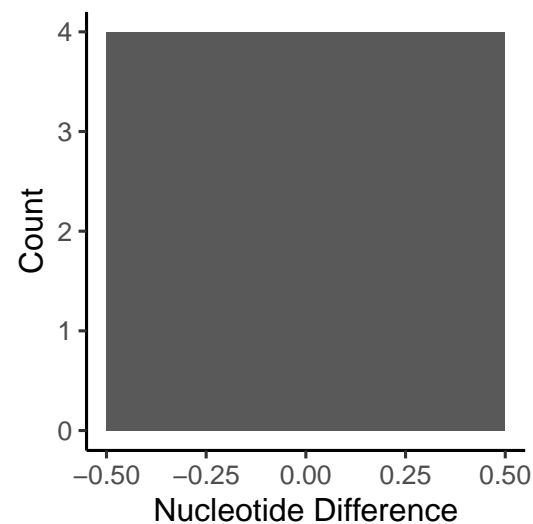
IGHV5–10–1*03

392 sequences assigned
279 (71.2%) exact matches, in which:
278 unique CDR3
6 unique J

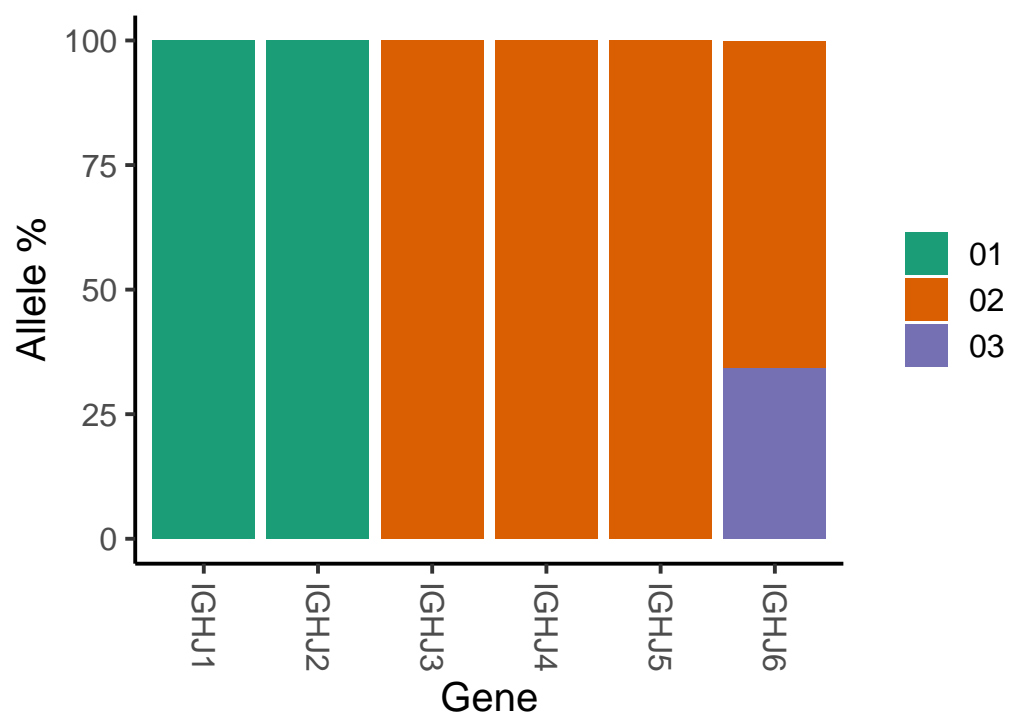


IGHV7–4–1*01

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



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.