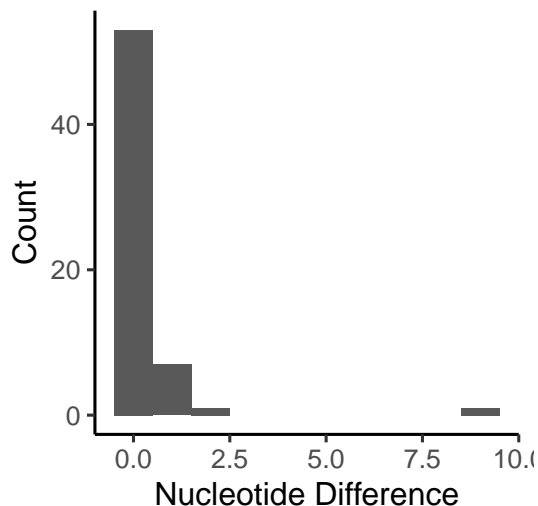


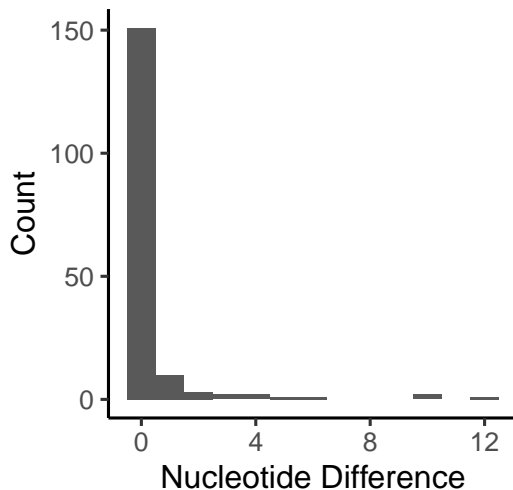
IGHV1-2*04

62 sequences assigned
53 (85.5%) exact matches, in which:
53 unique CDR3
5 unique J



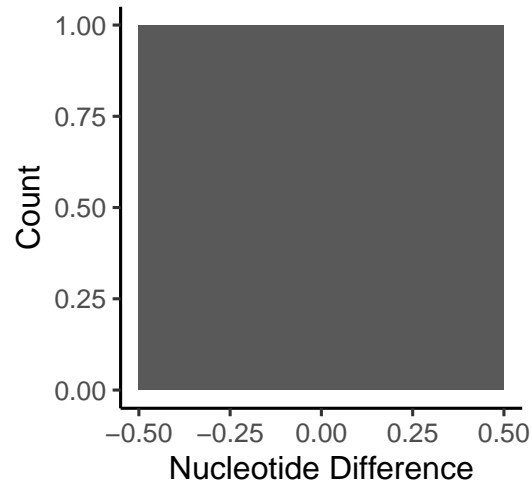
IGHV1-8*01

173 sequences assigned
151 (87.3%) exact matches, in which:
151 unique CDR3
6 unique J



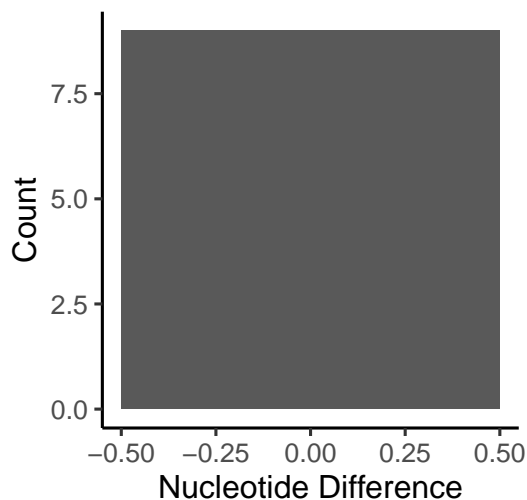
IGHV1-45*02

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



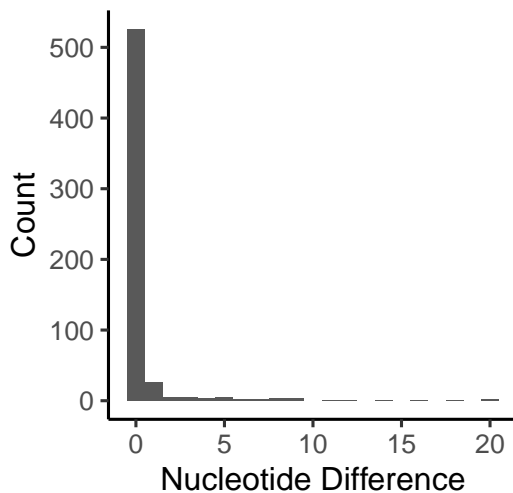
IGHV1-2*05

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



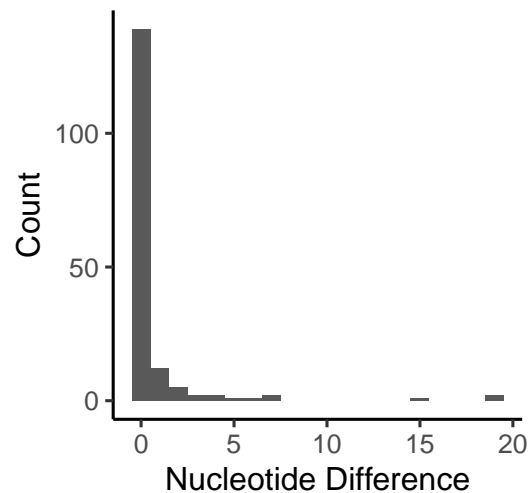
IGHV1-18*01

589 sequences assigned
526 (89.3%) exact matches, in which:
526 unique CDR3
6 unique J



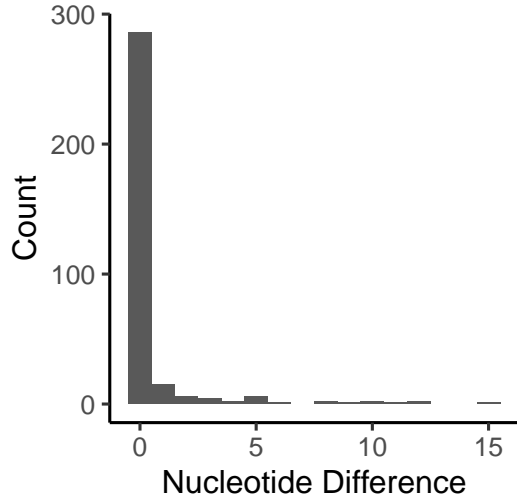
IGHV1-46*01

167 sequences assigned
139 (83.2%) exact matches, in which:
139 unique CDR3
6 unique J



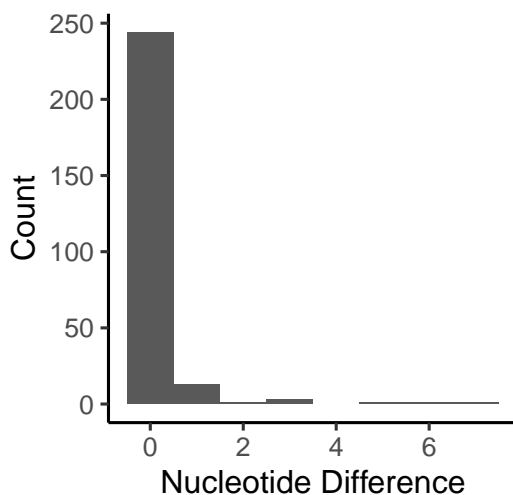
IGHV1-3*01

329 sequences assigned
286 (86.9%) exact matches, in which:
286 unique CDR3
6 unique J



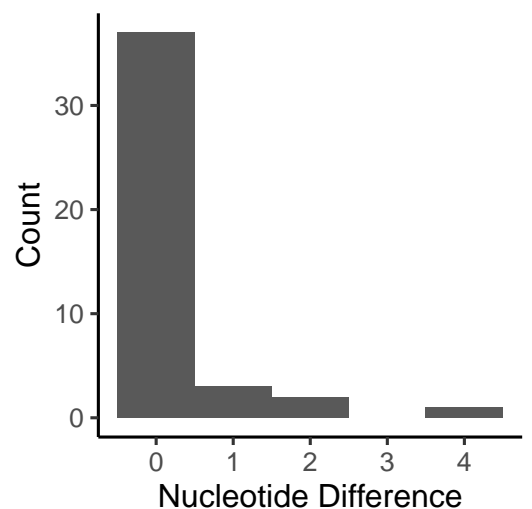
IGHV1-24*01

264 sequences assigned
244 (92.4%) exact matches, in which:
244 unique CDR3
6 unique J



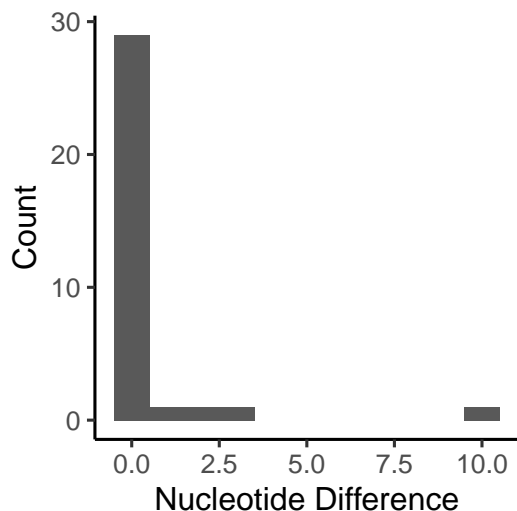
IGHV1-58*01

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



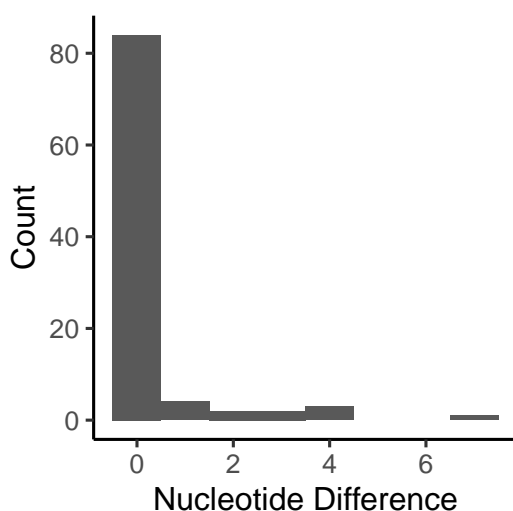
IGHV1-69-2*01

33 sequences assigned
29 (87.9%) exact matches, in which:
29 unique CDR3
5 unique J



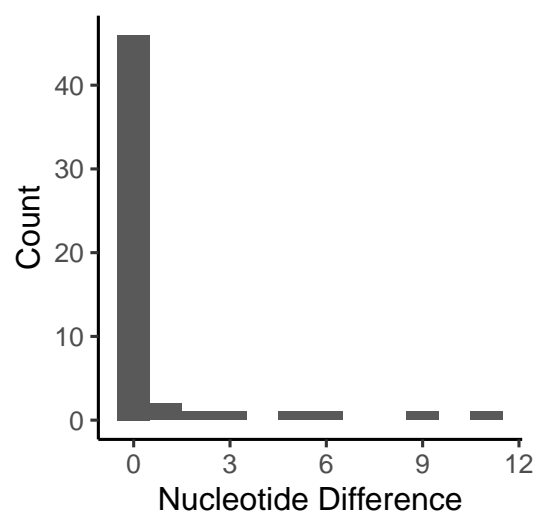
IGHV2-5*02

96 sequences assigned
84 (87.5%) exact matches, in which:
84 unique CDR3
6 unique J



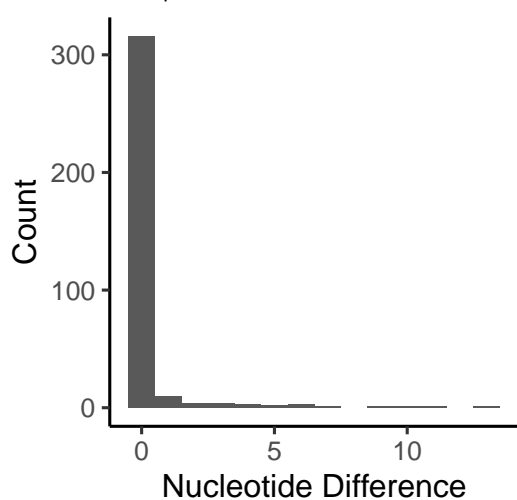
IGHV2-70*15

54 sequences assigned
46 (85.2%) exact matches, in which:
46 unique CDR3
4 unique J



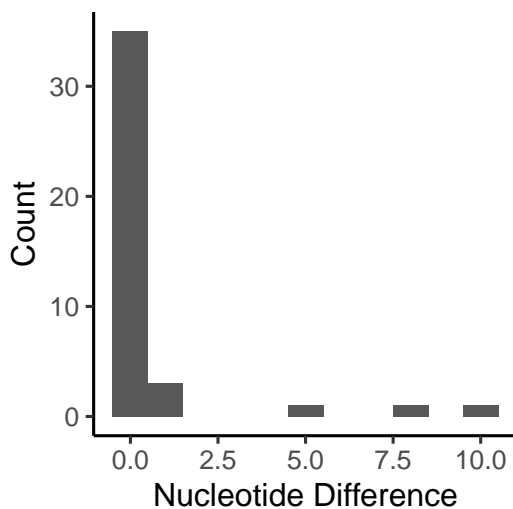
IGHV1-69*06

348 sequences assigned
316 (90.8%) exact matches, in which:
316 unique CDR3
6 unique J



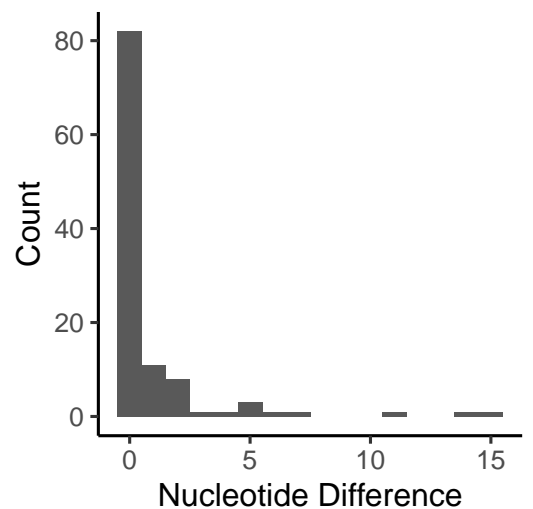
IGHV2-26*01

41 sequences assigned
35 (85.4%) exact matches, in which:
35 unique CDR3
5 unique J



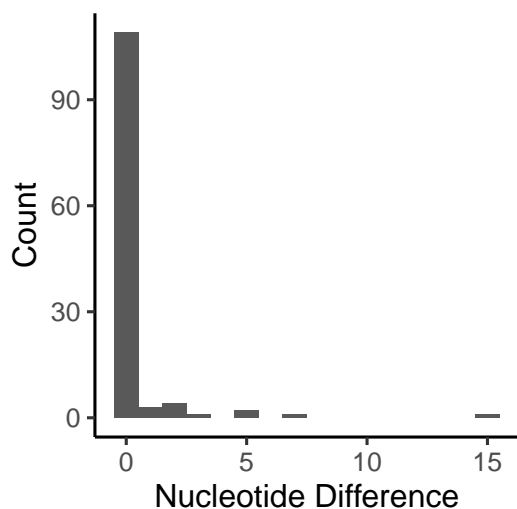
IGHV3-7*01

111 sequences assigned
82 (73.9%) exact matches, in which:
82 unique CDR3
5 unique J



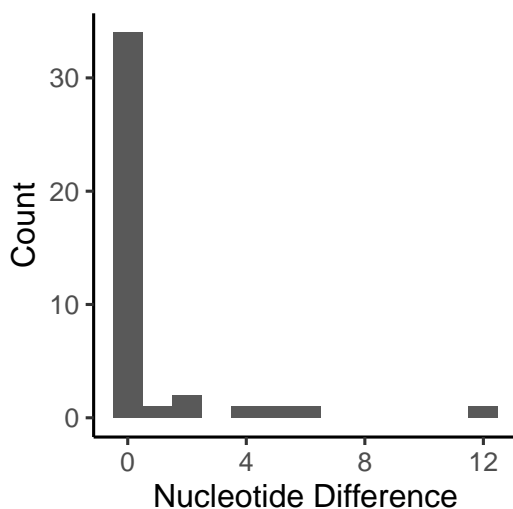
IGHV2-5*01

121 sequences assigned
109 (90.1%) exact matches, in which:
109 unique CDR3
6 unique J



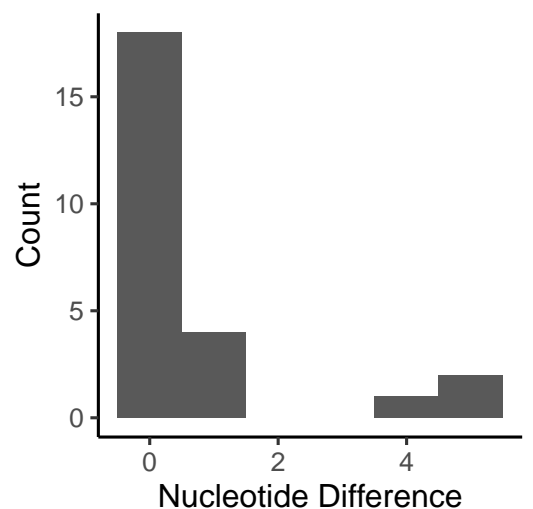
IGHV2-70*01

41 sequences assigned
34 (82.9%) exact matches, in which:
34 unique CDR3
5 unique J



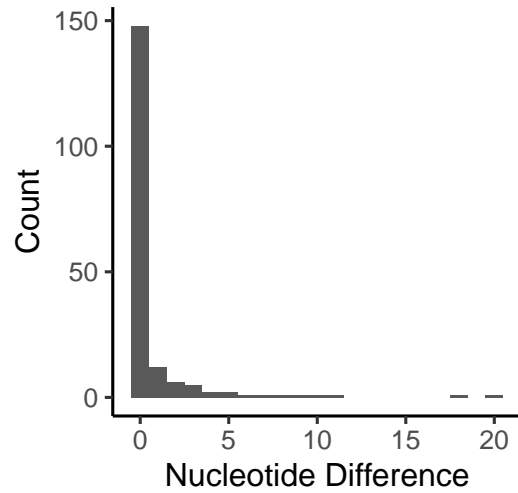
IGHV3-7*04

25 sequences assigned
18 (72%) exact matches, in which:
18 unique CDR3
4 unique J



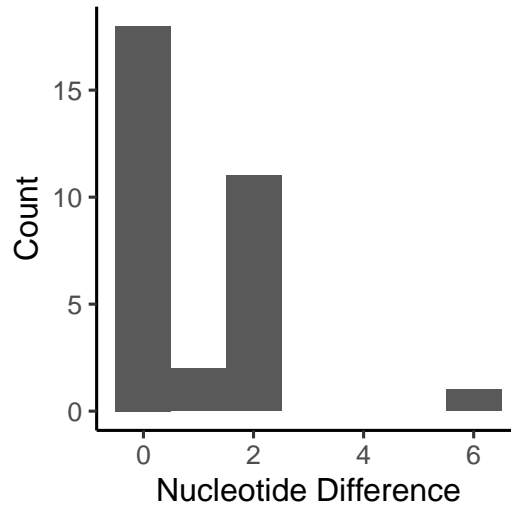
IGHV3-9*01

183 sequences assigned
148 (80.9%) exact matches, in which:
148 unique CDR3
6 unique J



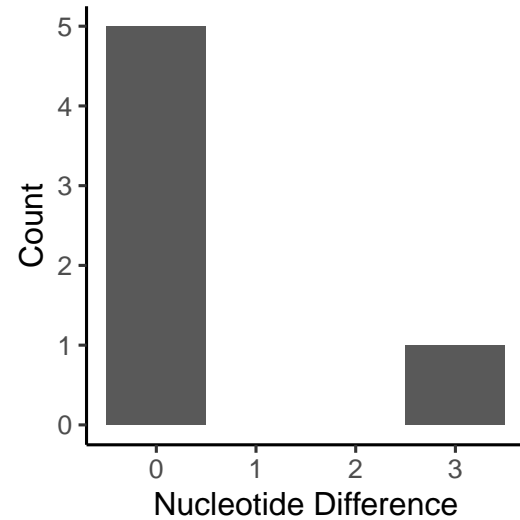
IGHV3-13*01

33 sequences assigned
18 (54.5%) exact matches, in which:
18 unique CDR3
5 unique J



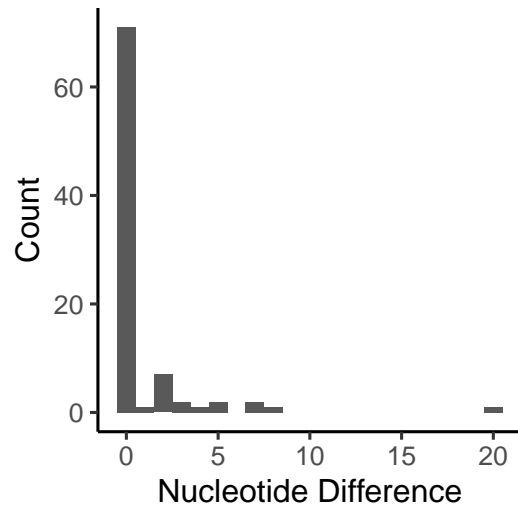
IGHV3-20*01

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



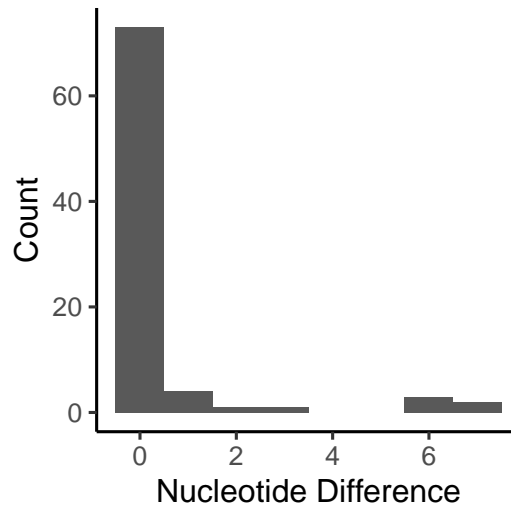
IGHV3-11*01

88 sequences assigned
71 (80.7%) exact matches, in which:
71 unique CDR3
6 unique J



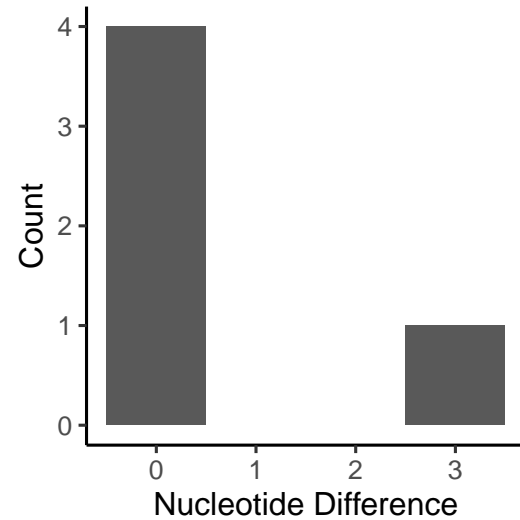
IGHV3-15*01

84 sequences assigned
73 (86.9%) exact matches, in which:
72 unique CDR3
6 unique J



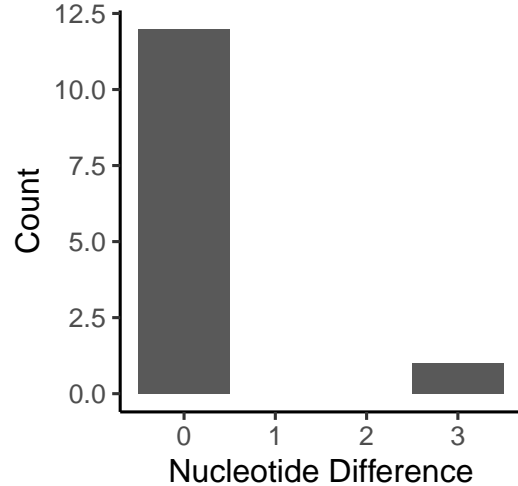
IGHV3-20*04

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



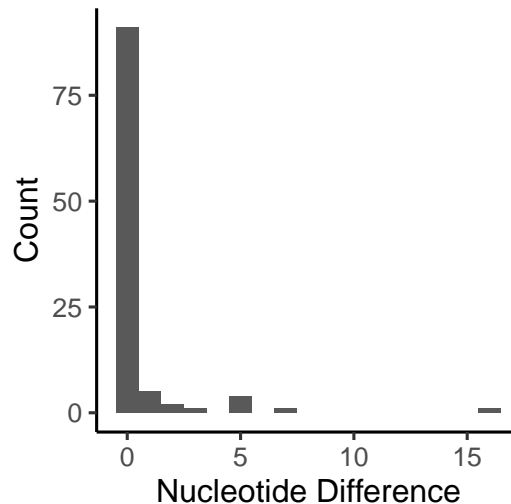
IGHV3-11*06

13 sequences assigned
12 (92.3%) exact matches, in which:
12 unique CDR3
3 unique J



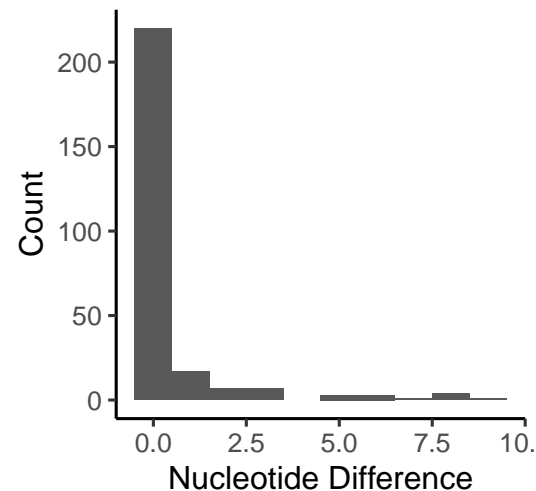
IGHV3-15*07

105 sequences assigned
91 (86.7%) exact matches, in which:
91 unique CDR3
5 unique J



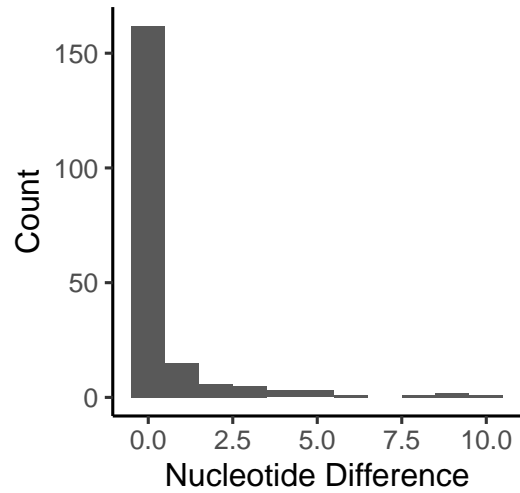
IGHV3-21*01

265 sequences assigned
220 (83%) exact matches, in which:
220 unique CDR3
6 unique J



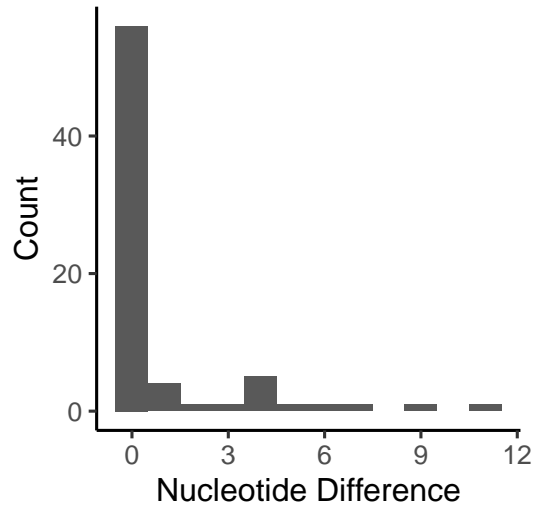
IGHV3-30-3*01

200 sequences assigned
162 (81%) exact matches, in which:
162 unique CDR3
6 unique J



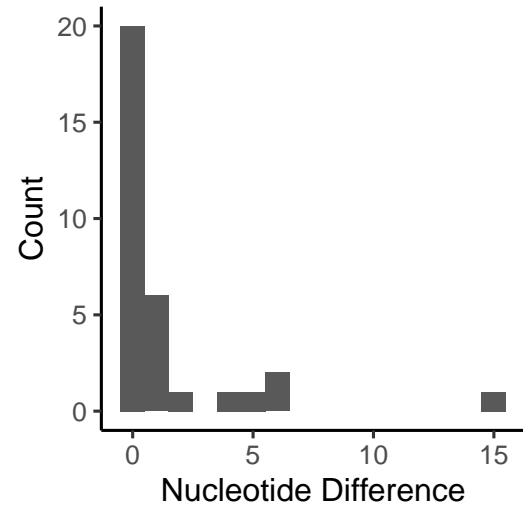
IGHV3-48*01

72 sequences assigned
56 (77.8%) exact matches, in which:
56 unique CDR3
4 unique J



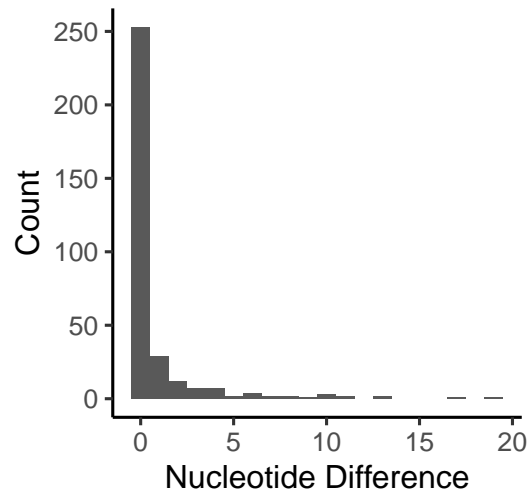
IGHV3-49*05

32 sequences assigned
20 (62.5%) exact matches, in which:
20 unique CDR3
5 unique J



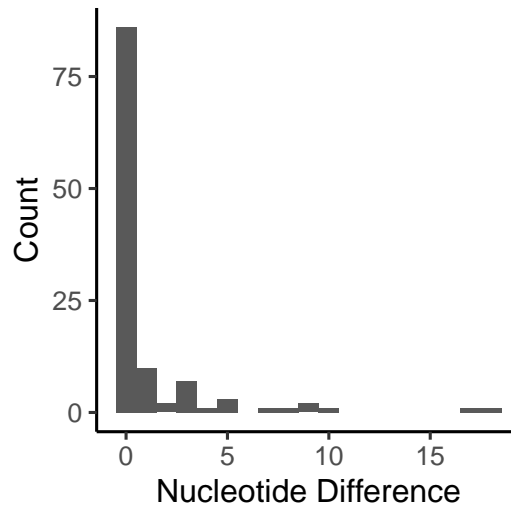
IGHV3-33*01

328 sequences assigned
253 (77.1%) exact matches, in which:
253 unique CDR3
6 unique J



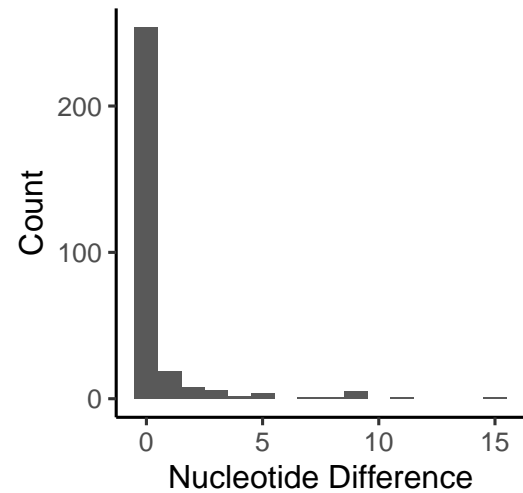
IGHV3-48*02

116 sequences assigned
86 (74.1%) exact matches, in which:
86 unique CDR3
5 unique J



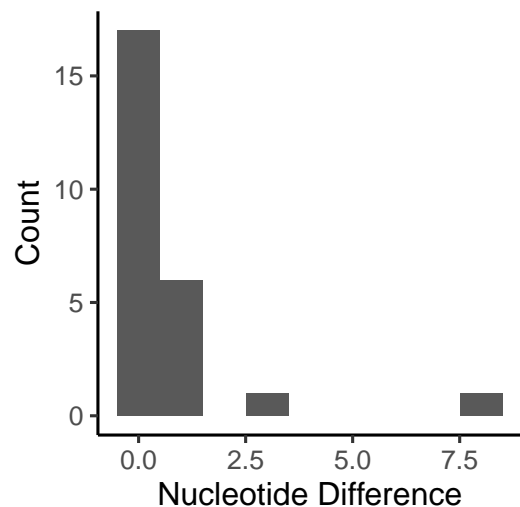
IGHV3-53*01

303 sequences assigned
254 (83.8%) exact matches, in which:
253 unique CDR3
5 unique J



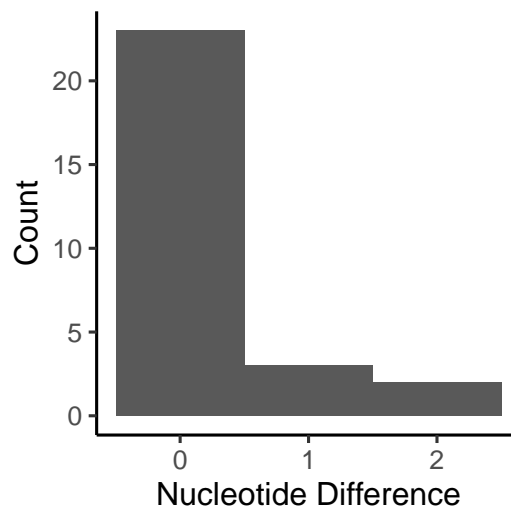
IGHV3-43*01

25 sequences assigned
17 (68%) exact matches, in which:
17 unique CDR3
5 unique J



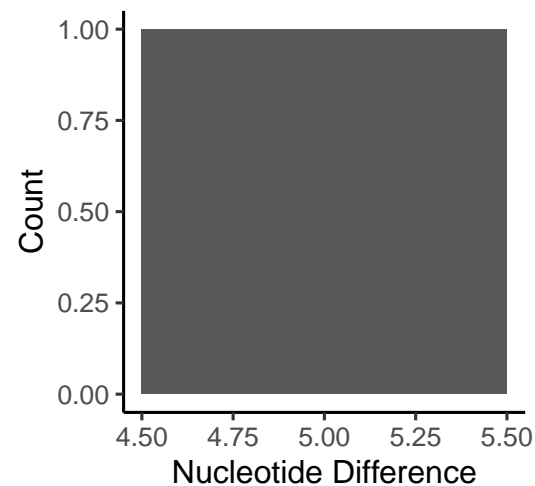
IGHV3-49*03

28 sequences assigned
23 (82.1%) exact matches, in which:
23 unique CDR3
5 unique J



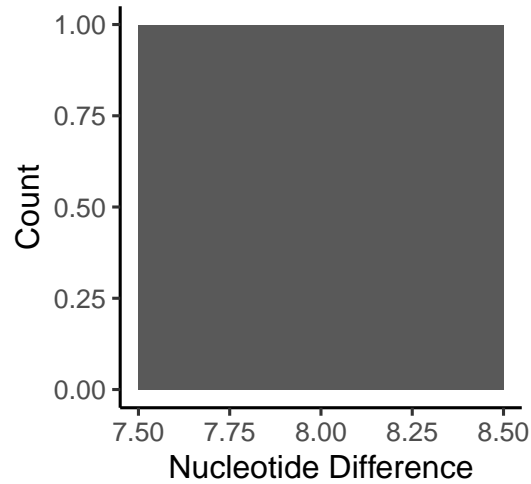
IGHV3-64*02

1 sequences assigned
No exact matches.



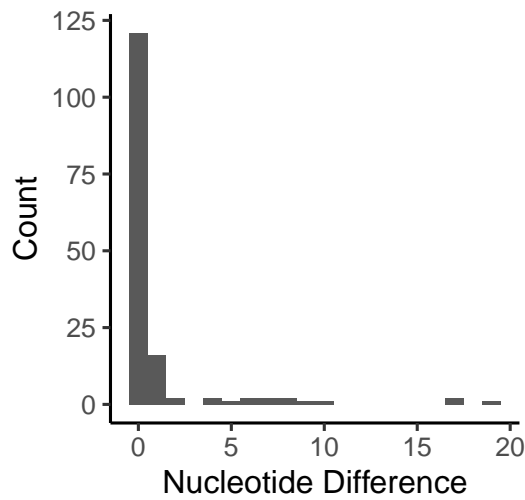
IGHV3-66*01

1 sequences assigned
No exact matches.



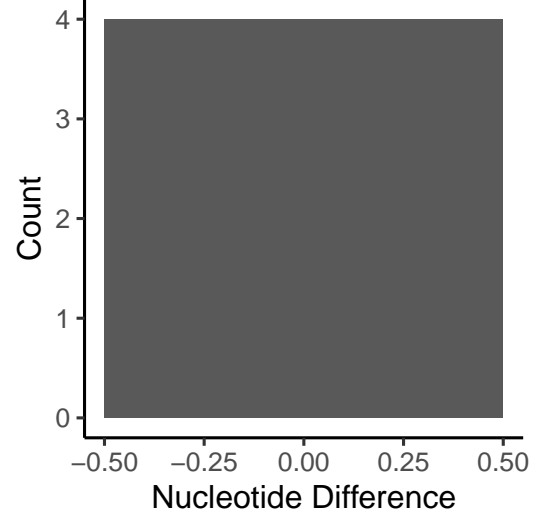
IGHV3-74*01

154 sequences assigned
121 (78.6%) exact matches, in which:
121 unique CDR3
5 unique J



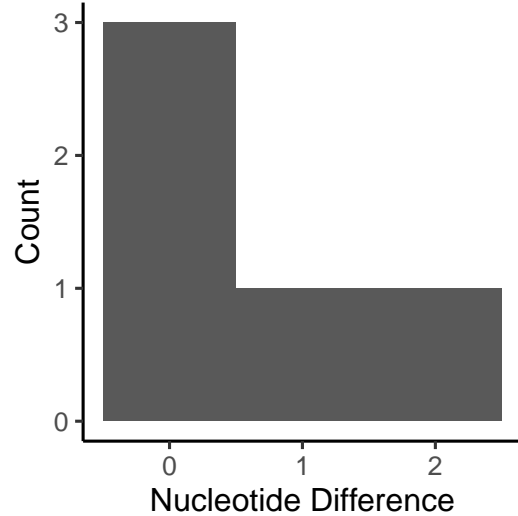
IGHV4-28*01

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



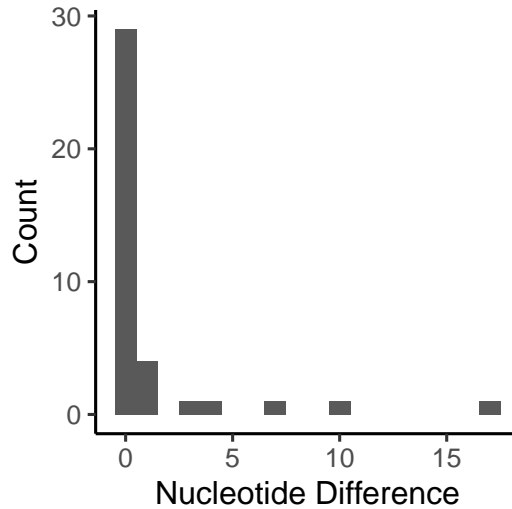
IGHV3-72*01

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
3 unique J



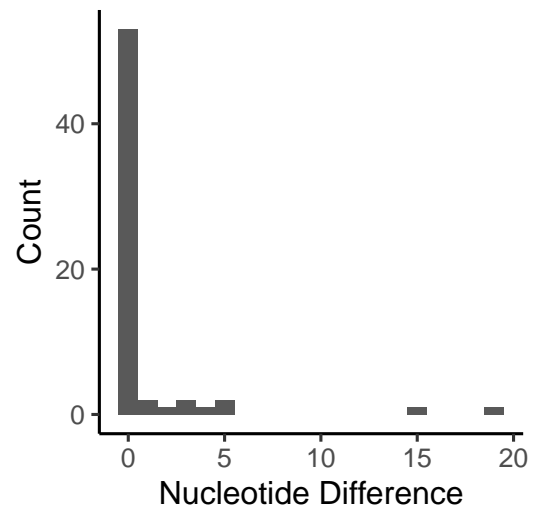
IGHV3-64D*06

38 sequences assigned
29 (76.3%) exact matches, in which:
29 unique CDR3
6 unique J



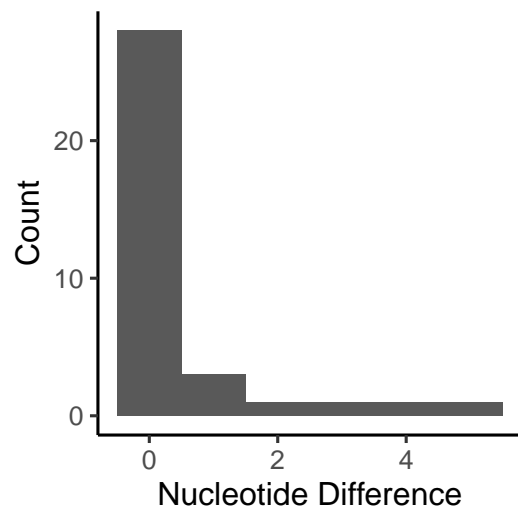
IGHV4-30-4*01

63 sequences assigned
53 (84.1%) exact matches, in which:
53 unique CDR3
6 unique J



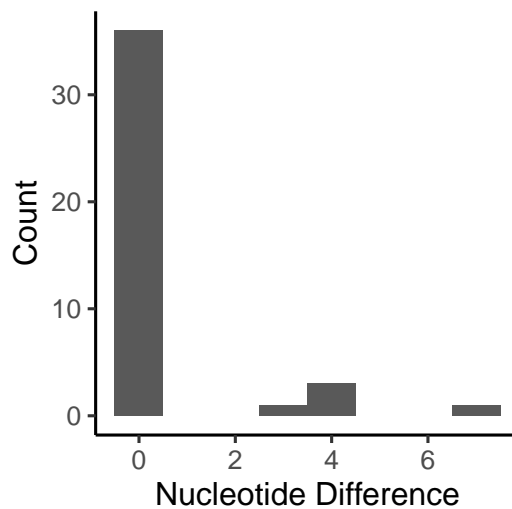
IGHV3-73*02

35 sequences assigned
28 (80%) exact matches, in which:
28 unique CDR3
5 unique J



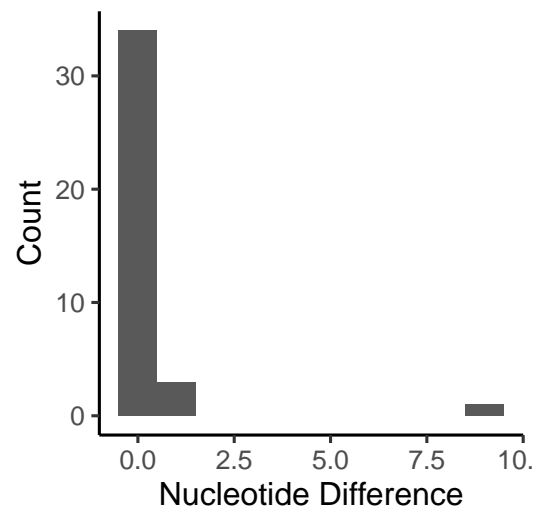
IGHV4-4*02

41 sequences assigned
36 (87.8%) exact matches, in which:
36 unique CDR3
5 unique J



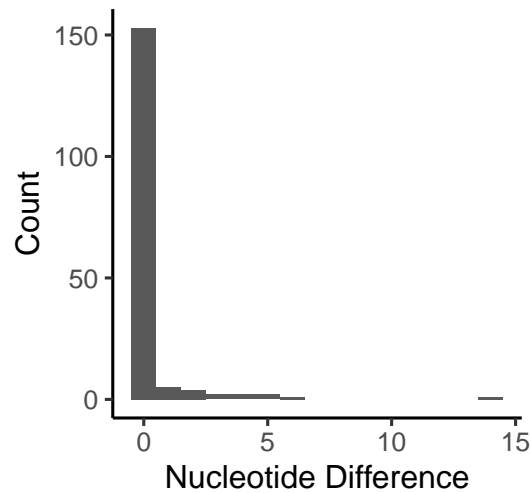
IGHV4-30-2*01

38 sequences assigned
34 (89.5%) exact matches, in which:
34 unique CDR3
4 unique J



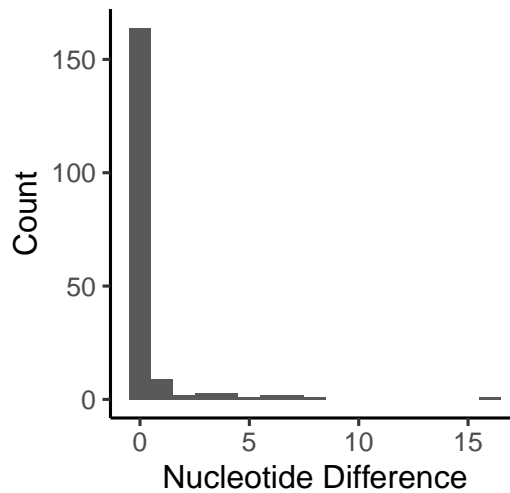
IGHV4–31*03

170 sequences assigned
153 (90%) exact matches, in which:
153 unique CDR3
6 unique J



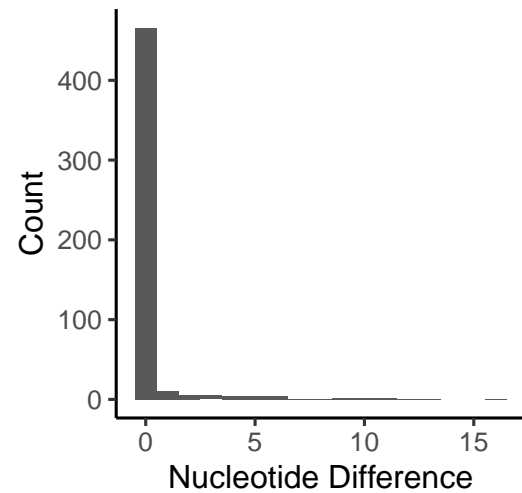
IGHV4–59*01

188 sequences assigned
164 (87.2%) exact matches, in which:
164 unique CDR3
6 unique J



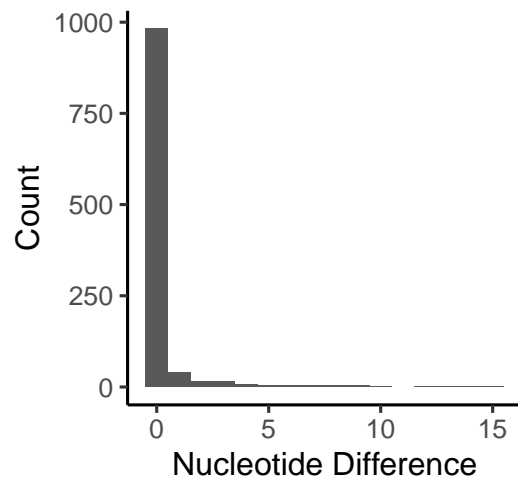
IGHV5–51*01

511 sequences assigned
466 (91.2%) exact matches, in which:
466 unique CDR3
6 unique J



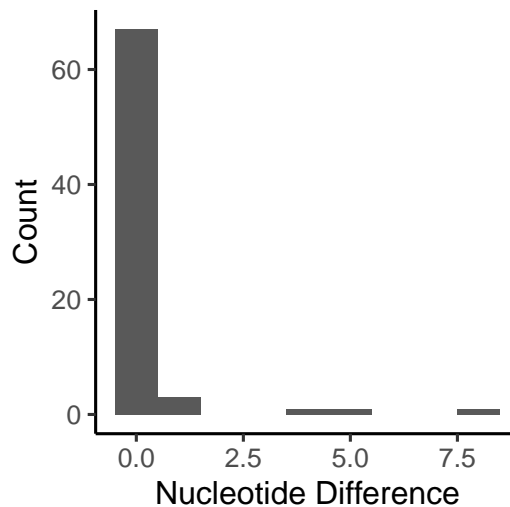
IGHV4–34*01

1090 sequences assigned
982 (90.1%) exact matches, in which:
980 unique CDR3
6 unique J



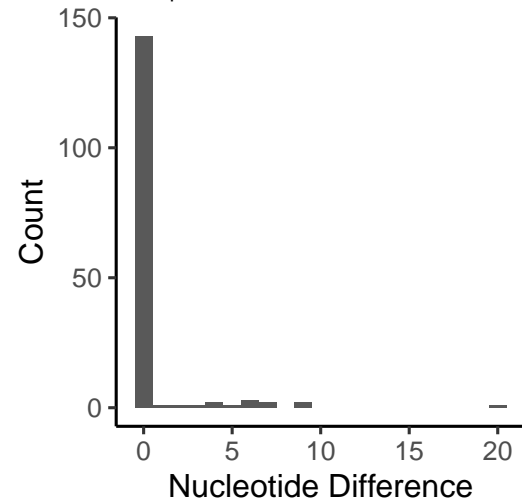
IGHV4–61*01

73 sequences assigned
67 (91.8%) exact matches, in which:
67 unique CDR3
5 unique J



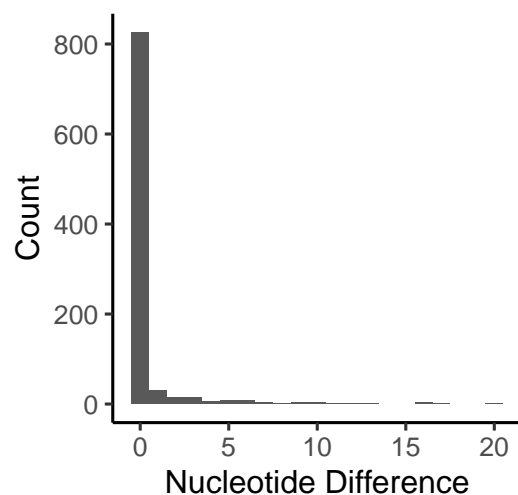
IGHV6–1*01

157 sequences assigned
143 (91.1%) exact matches, in which:
143 unique CDR3
6 unique J



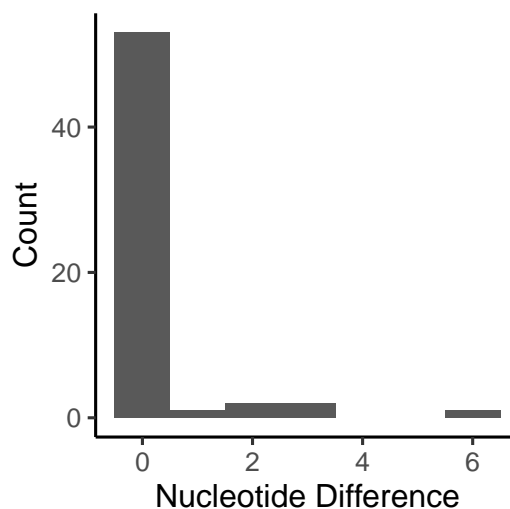
IGHV4–39*01

934 sequences assigned
826 (88.4%) exact matches, in which:
826 unique CDR3
6 unique J



IGHV5–10–1*03

59 sequences assigned
53 (89.8%) exact matches, in which:
53 unique CDR3
5 unique J



IGHV7–4–1*02

265 sequences assigned
235 (88.7%) exact matches, in which:
235 unique CDR3
6 unique J

