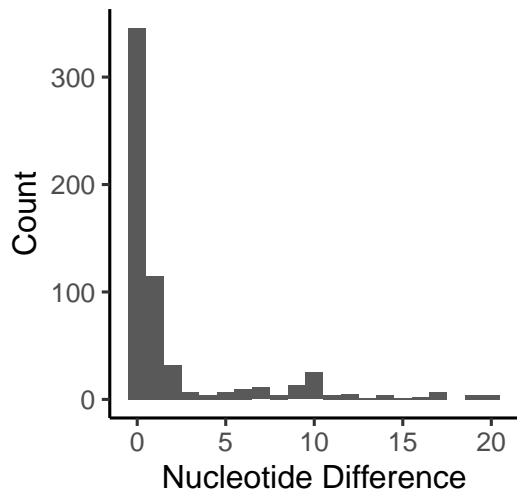


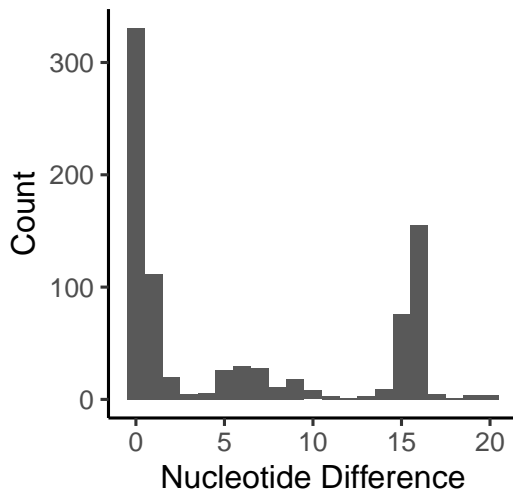
IGHV1-2*02

680 sequences assigned
346 (50.9%) exact matches, in which:
325 unique CDR3
7 unique J



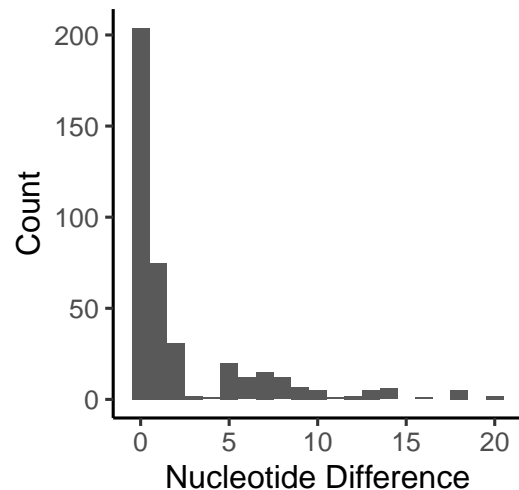
IGHV1-8*01

868 sequences assigned
331 (38.1%) exact matches, in which:
309 unique CDR3
7 unique J



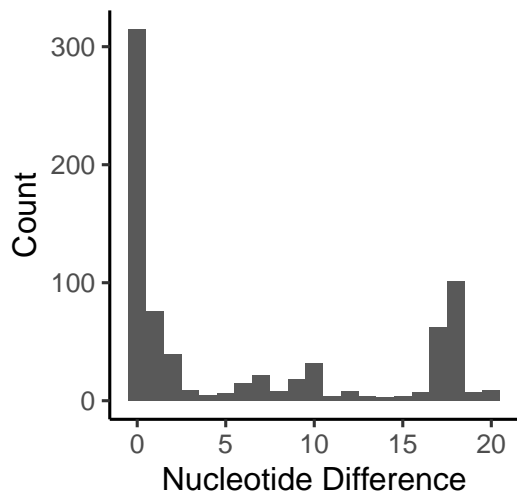
IGHV1-46*01

617 sequences assigned
204 (33.1%) exact matches, in which:
198 unique CDR3
7 unique J



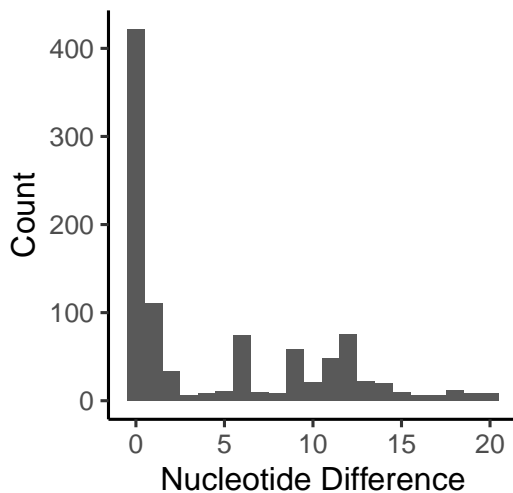
IGHV1-2*06

831 sequences assigned
315 (37.9%) exact matches, in which:
307 unique CDR3
7 unique J



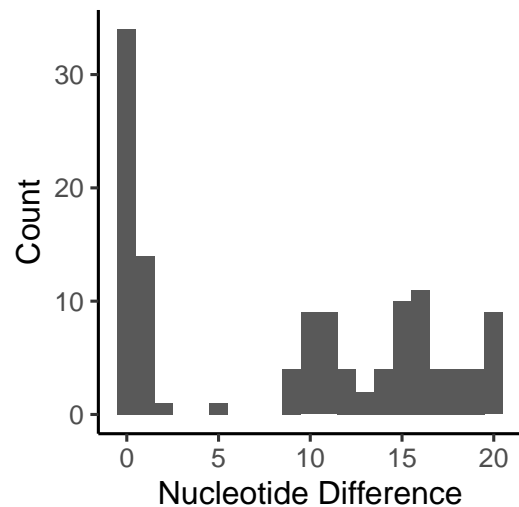
IGHV1-18*01

1296 sequences assigned
422 (32.6%) exact matches, in which:
401 unique CDR3
7 unique J



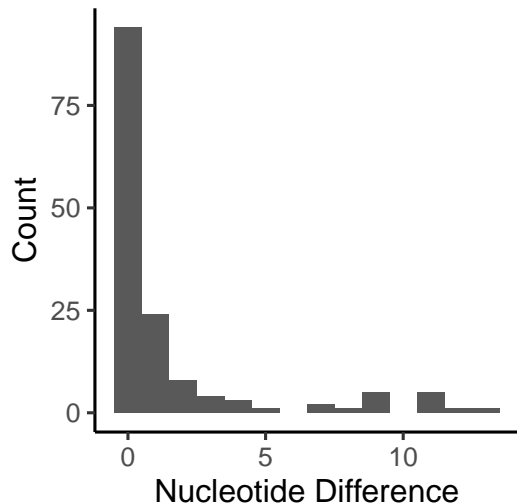
IGHV1-58*01_03

201 sequences assigned
34 (16.9%) exact matches, in which:
32 unique CDR3
6 unique J



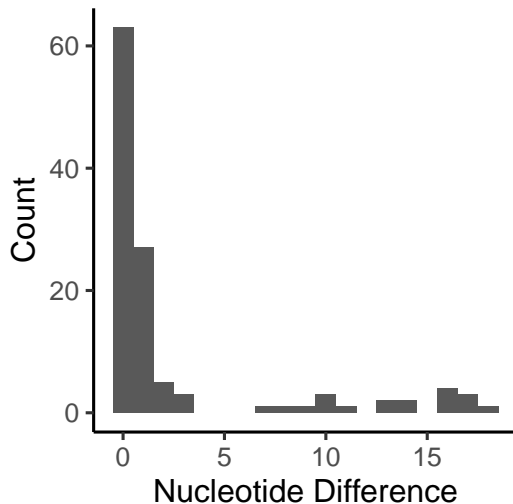
IGHV1-3*01_05

154 sequences assigned
94 (61%) exact matches, in which:
87 unique CDR3
6 unique J



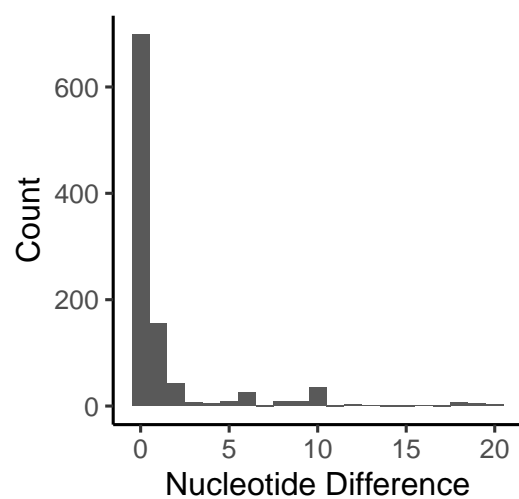
IGHV1-24*01

123 sequences assigned
63 (51.2%) exact matches, in which:
58 unique CDR3
6 unique J



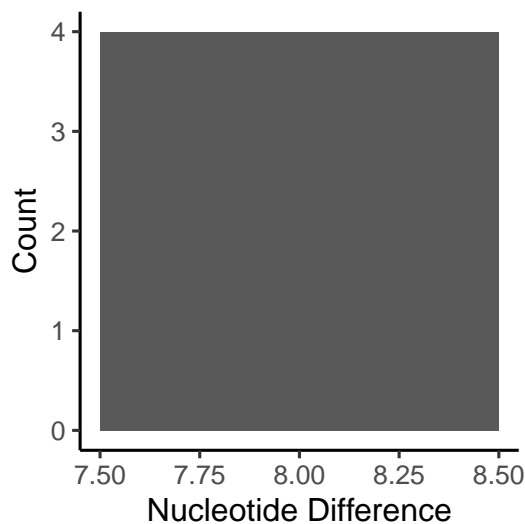
IGHV1-69*01_12_13

1048 sequences assigned
699 (66.7%) exact matches, in which:
677 unique CDR3
7 unique J



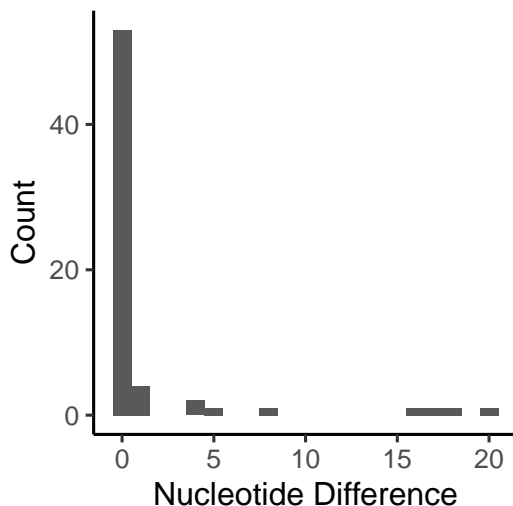
IGHV1–NL1*01

4 sequences assigned
No exact matches.



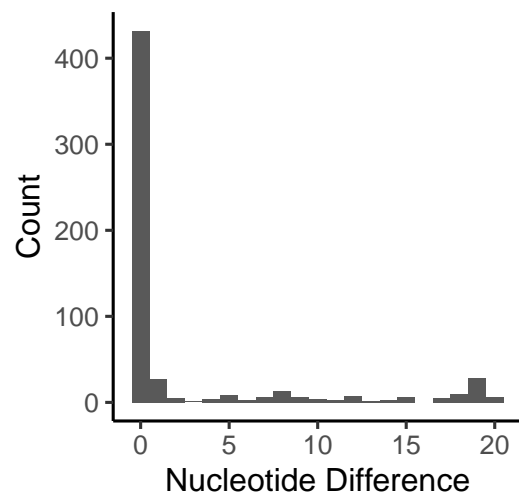
IGHV2–26*01

68 sequences assigned
53 (77.9%) exact matches, in which:
47 unique CDR3
5 unique J



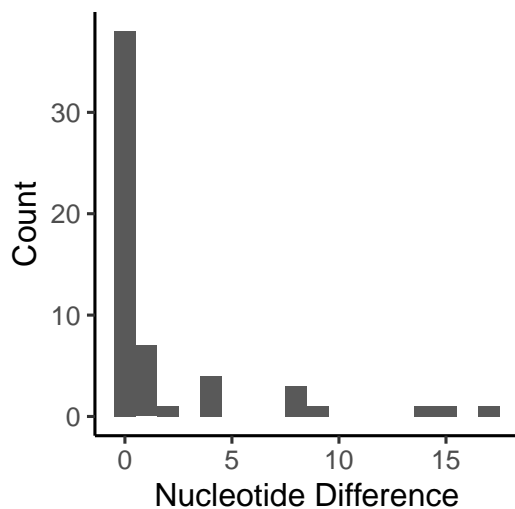
IGHV3–9*01

627 sequences assigned
432 (68.9%) exact matches, in which:
228 unique CDR3
7 unique J



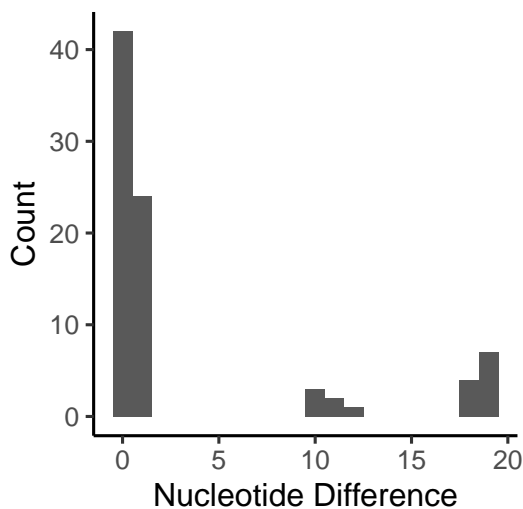
IGHV2–5*01

61 sequences assigned
38 (62.3%) exact matches, in which:
36 unique CDR3
5 unique J



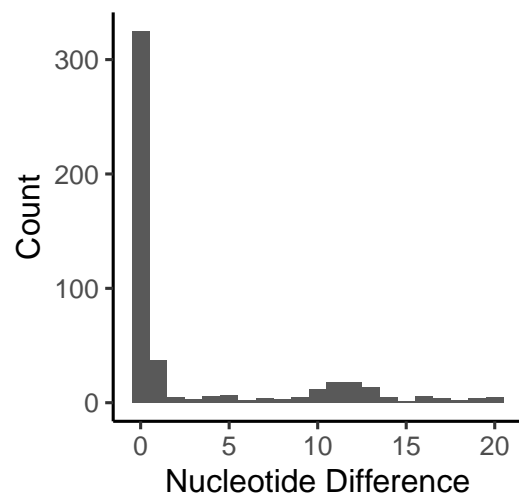
IGHV2–70*01

85 sequences assigned
42 (49.4%) exact matches, in which:
39 unique CDR3
5 unique J



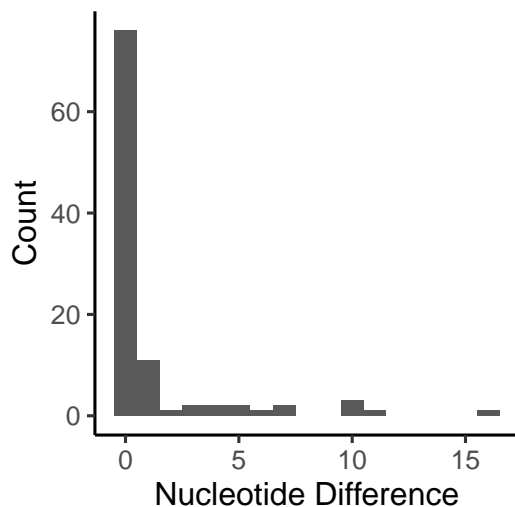
IGHV3–11*01

577 sequences assigned
325 (56.3%) exact matches, in which:
173 unique CDR3
6 unique J



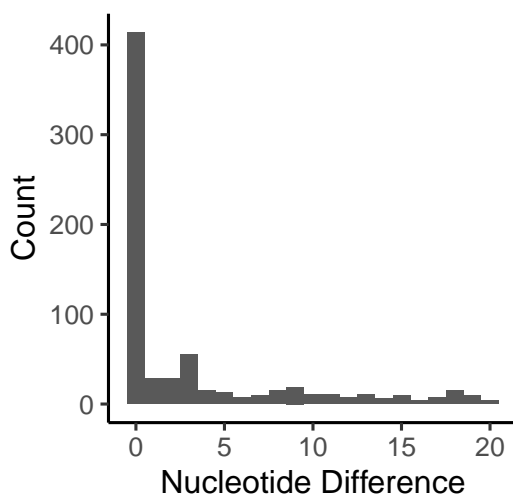
IGHV2–5*02

105 sequences assigned
76 (72.4%) exact matches, in which:
72 unique CDR3
7 unique J



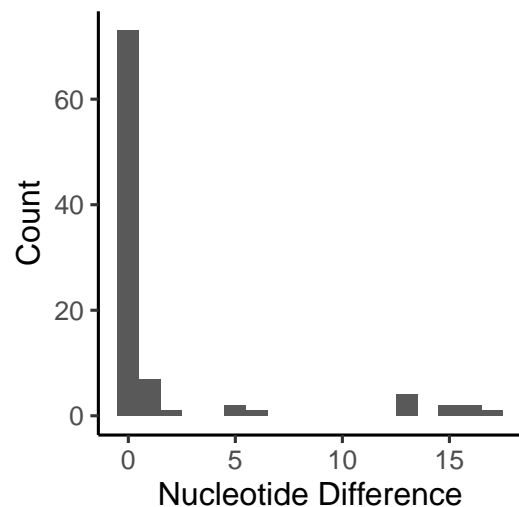
IGHV3–7*01

818 sequences assigned
414 (50.6%) exact matches, in which:
235 unique CDR3
7 unique J



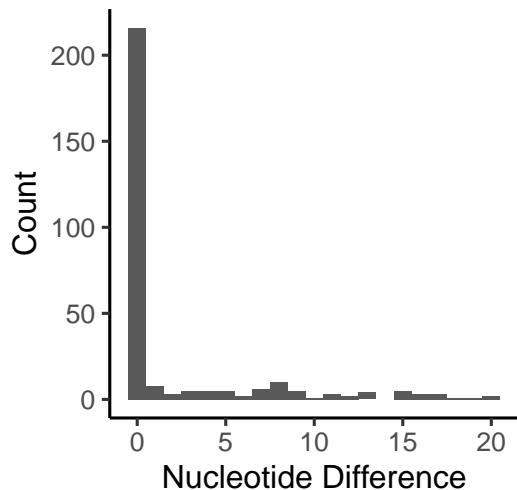
IGHV3–13*01

97 sequences assigned
73 (75.3%) exact matches, in which:
40 unique CDR3
6 unique J



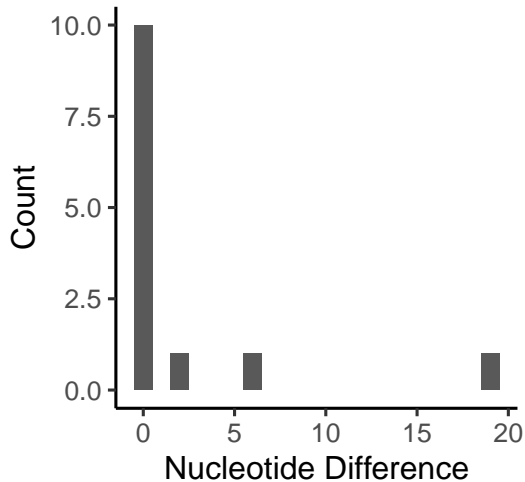
IGHV3-15*07

320 sequences assigned
216 (67.5%) exact matches, in which:
128 unique CDR3
7 unique J



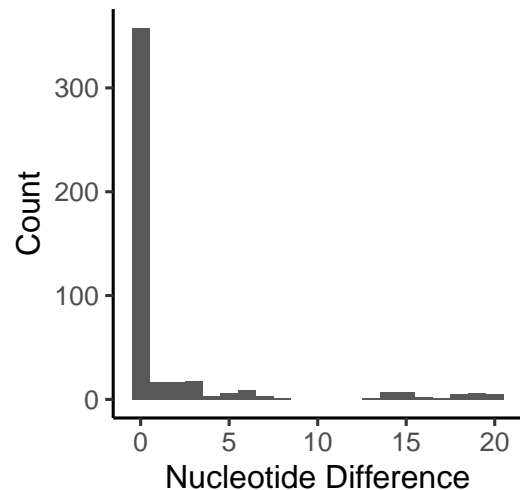
IGHV3-20*03_04

13 sequences assigned
10 (76.9%) exact matches, in which:
5 unique CDR3
4 unique J



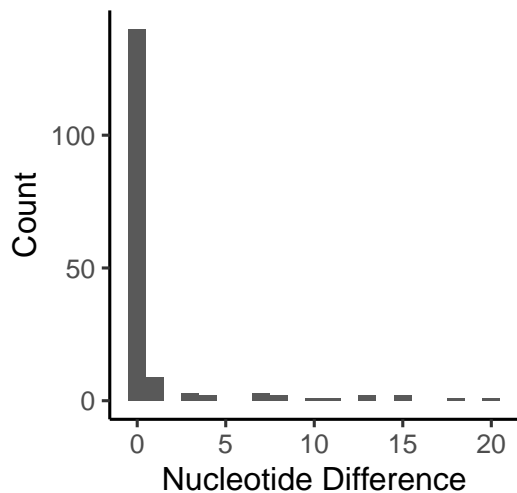
IGHV3-30-3*01

566 sequences assigned
358 (63.3%) exact matches, in which:
208 unique CDR3
7 unique J



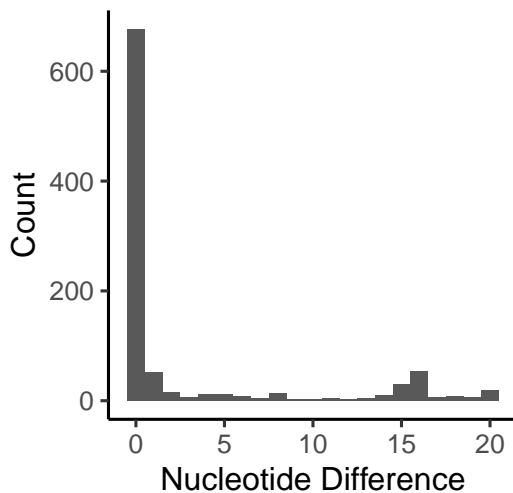
IGHV3-15*01_02

171 sequences assigned
140 (81.9%) exact matches, in which:
85 unique CDR3
7 unique J



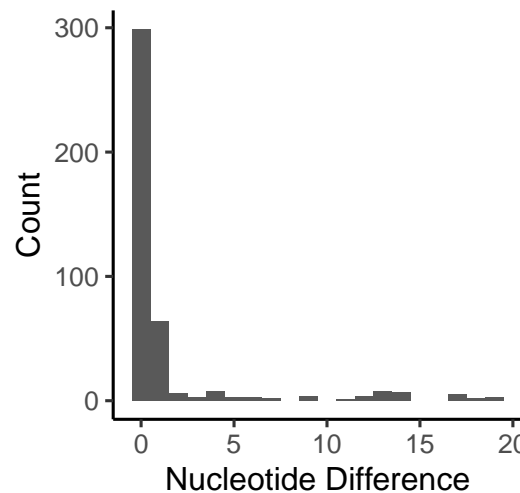
IGHV3-21*01_02

1288 sequences assigned
677 (52.6%) exact matches, in which:
380 unique CDR3
7 unique J



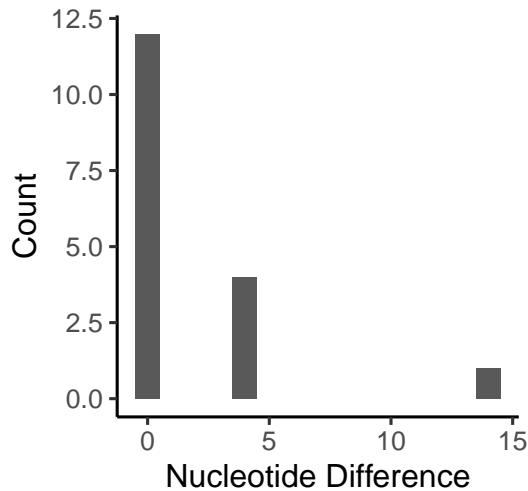
IGHV3-33*01

461 sequences assigned
299 (64.9%) exact matches, in which:
163 unique CDR3
7 unique J



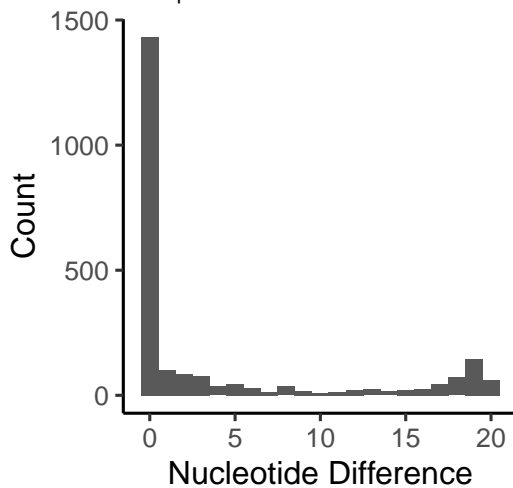
IGHV3-20*01_02

17 sequences assigned
12 (70.6%) exact matches, in which:
6 unique CDR3
4 unique J



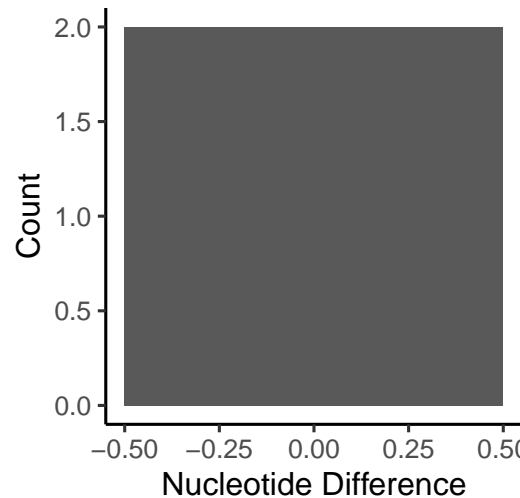
IGHV3-23*01_04

3982 sequences assigned
1432 (36%) exact matches, in which:
744 unique CDR3
7 unique J



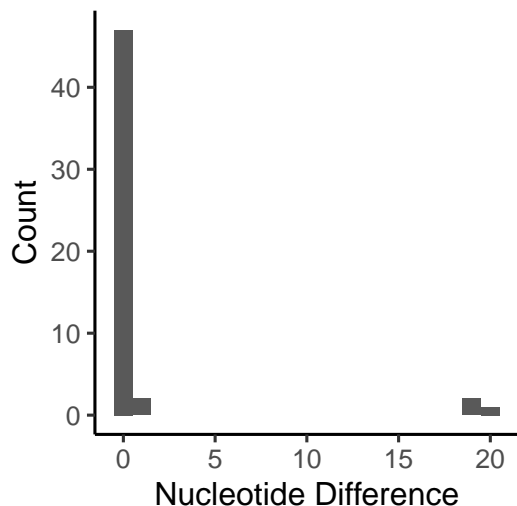
IGHV3-38-3*01

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



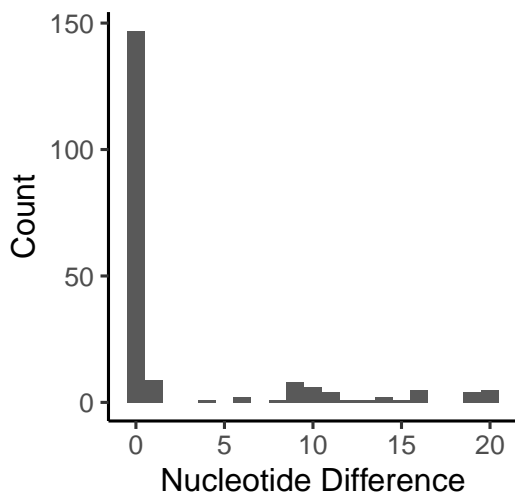
IGHV3-43*01

58 sequences assigned
47 (81%) exact matches, in which:
25 unique CDR3
5 unique J



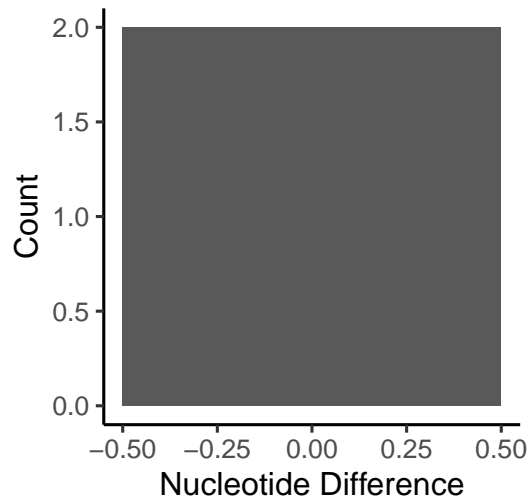
IGHV3-49*03_05

203 sequences assigned
147 (72.4%) exact matches, in which:
81 unique CDR3
7 unique J



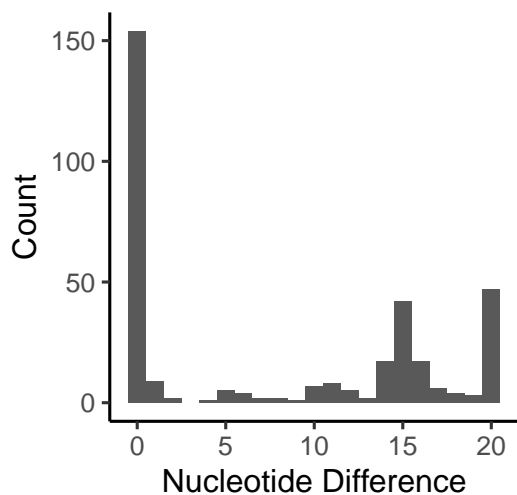
IGHV3-64*02_07

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



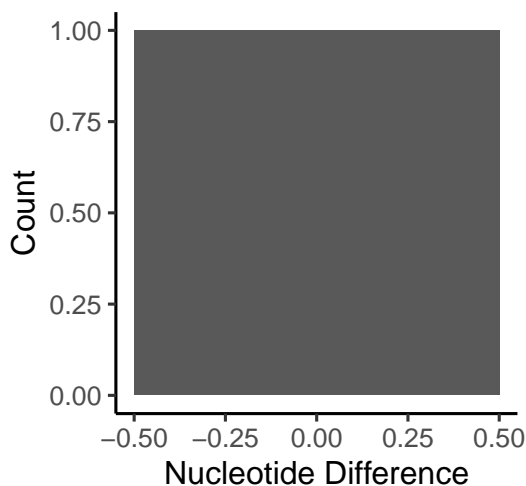
IGHV3-48*02

852 sequences assigned
154 (18.1%) exact matches, in which:
77 unique CDR3
5 unique J



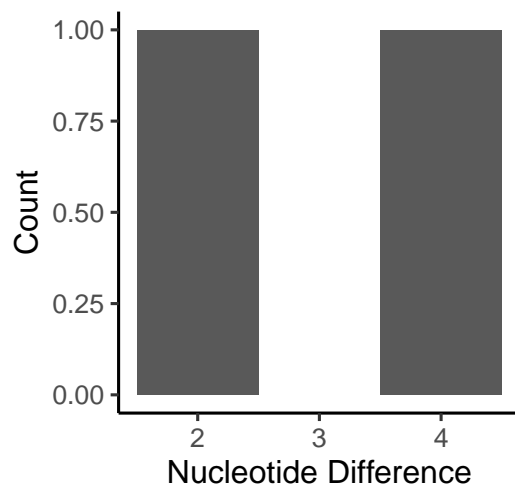
IGHV3-52*01_03

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



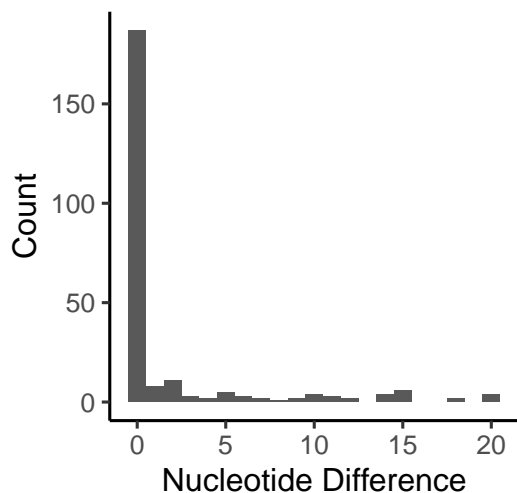
IGHV3-66*03

3 sequences assigned
No exact matches.



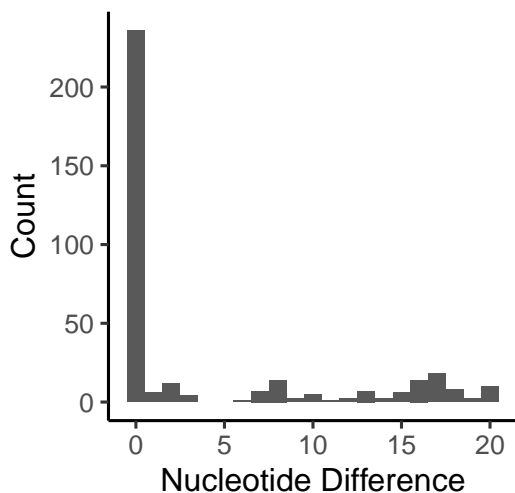
IGHV3-48*04

262 sequences assigned
187 (71.4%) exact matches, in which:
100 unique CDR3
6 unique J



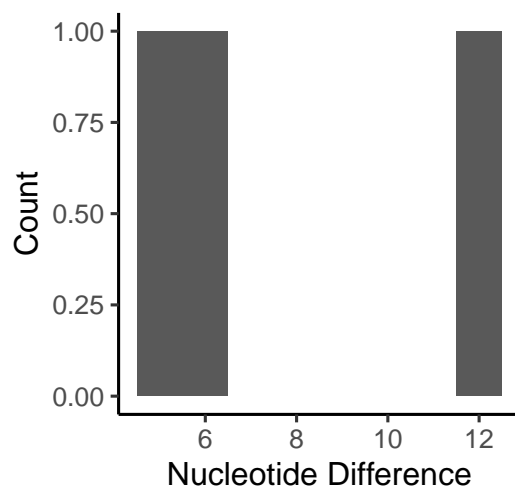
IGHV3-53*01_02

439 sequences assigned
236 (53.8%) exact matches, in which:
127 unique CDR3
7 unique J



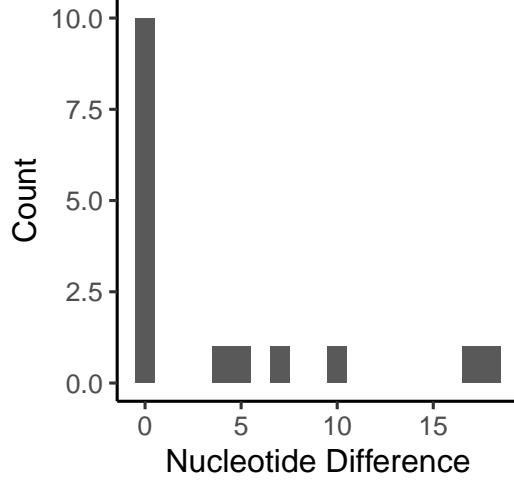
IGHV3-69-1*02

9 sequences assigned
No exact matches.



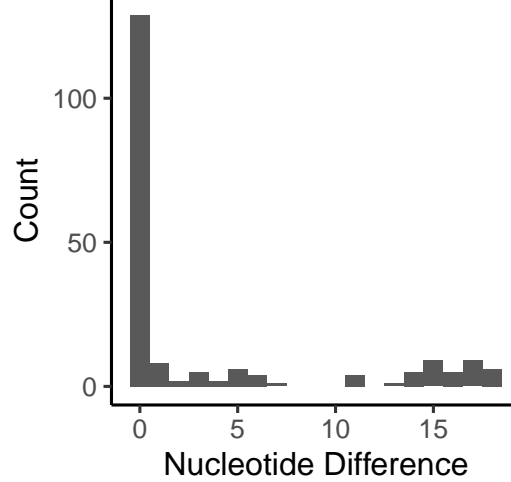
IGHV3-72*01

21 sequences assigned
10 (47.6%) exact matches, in which:
6 unique CDR3
5 unique J



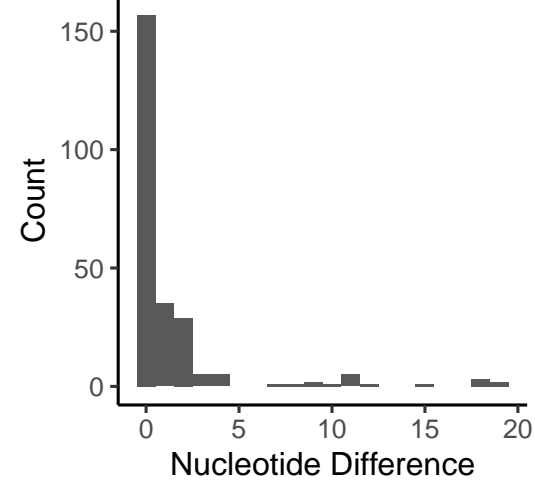
IGHV3-74*01_02

289 sequences assigned
129 (44.6%) exact matches, in which:
69 unique CDR3
7 unique J



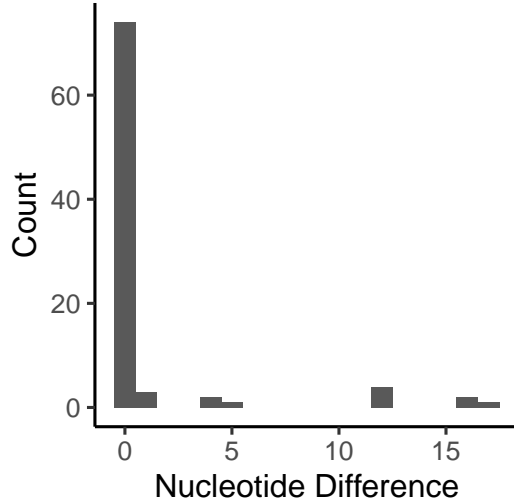
IGHV4-4*02_03

256 sequences assigned
157 (61.3%) exact matches, in which:
133 unique CDR3
7 unique J



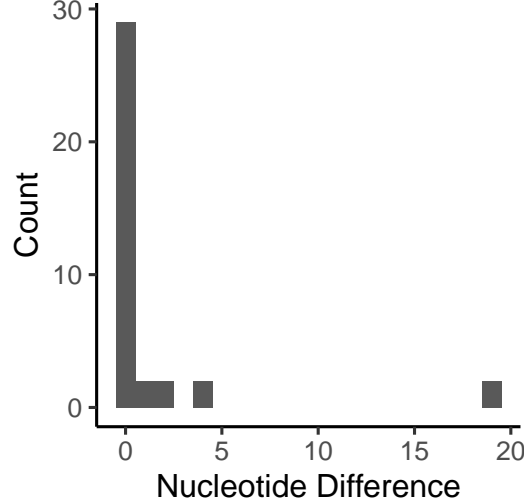
IGHV3-73*01_02

139 sequences assigned
74 (53.2%) exact matches, in which:
40 unique CDR3
7 unique J



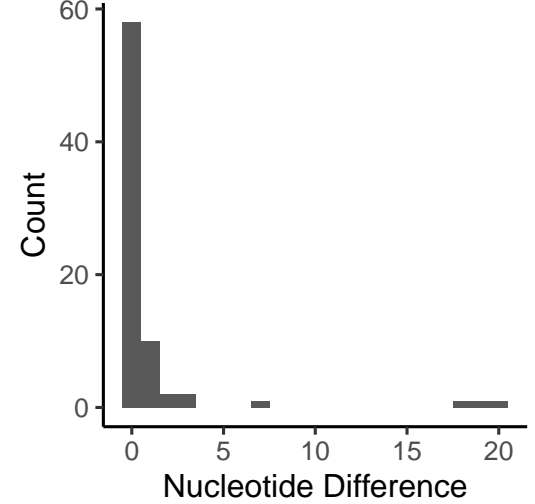
IGHV3-43D*03

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



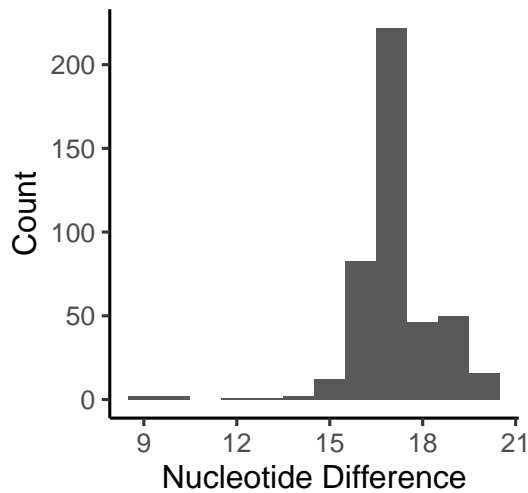
IGHV4-30-2*01

79 sequences assigned
58 (73.4%) exact matches, in which:
44 unique CDR3
6 unique J



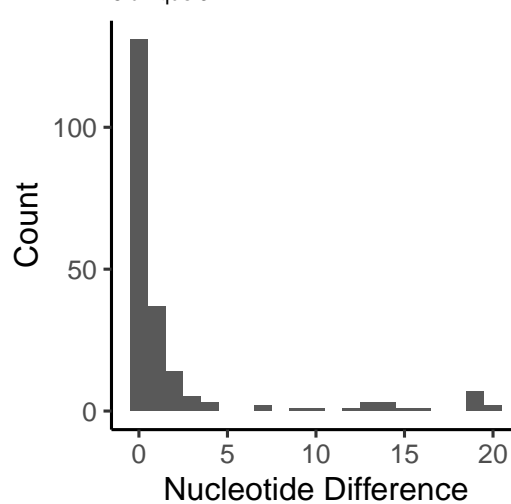
IGHV3-74*03

1329 sequences assigned
No exact matches.



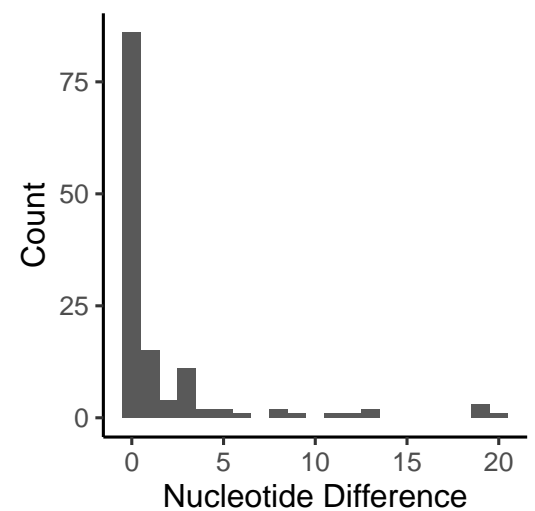
IGHV4-4*07

243 sequences assigned
131 (53.9%) exact matches, in which:
119 unique CDR3
6 unique J



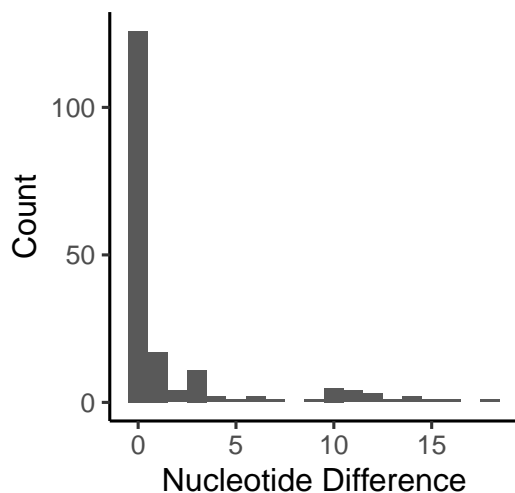
IGHV4-30-4*01

142 sequences assigned
86 (60.6%) exact matches, in which:
79 unique CDR3
7 unique J



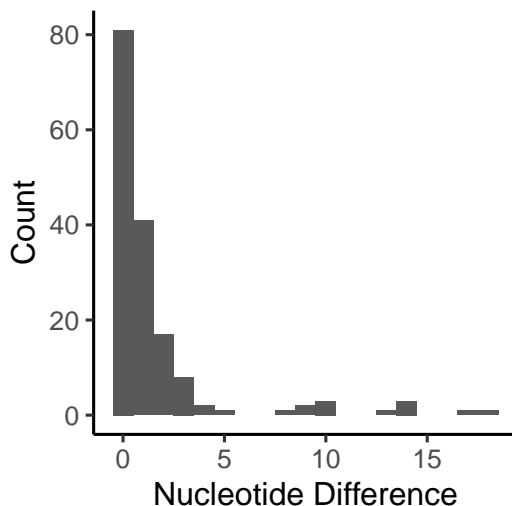
IGHV4-31*02

188 sequences assigned
126 (67%) exact matches, in which:
120 unique CDR3
6 unique J



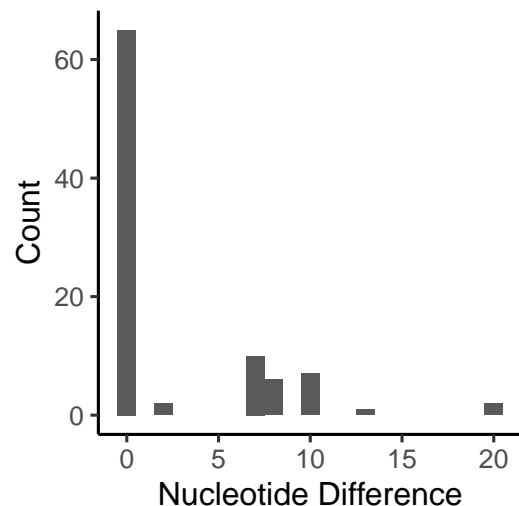
IGHV4-38-2*02

170 sequences assigned
81 (47.6%) exact matches, in which:
78 unique CDR3
7 unique J



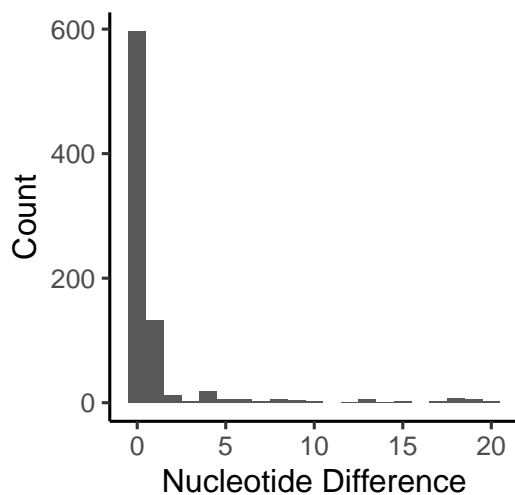
IGHV4-39*07_C300T

96 sequences assigned
65 (67.7%) exact matches, in which:
64 unique CDR3
6 unique J



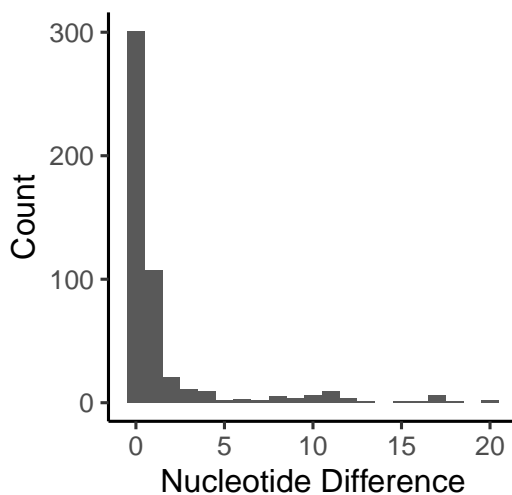
IGHV4-34*01_02

969 sequences assigned
597 (61.6%) exact matches, in which:
482 unique CDR3
7 unique J



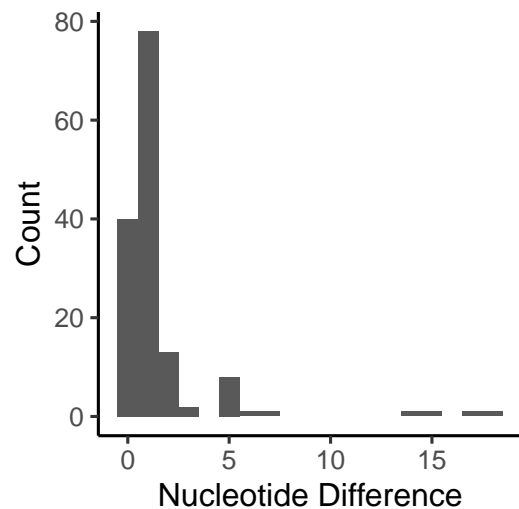
IGHV4-39*07

504 sequences assigned
301 (59.7%) exact matches, in which:
281 unique CDR3
6 unique J



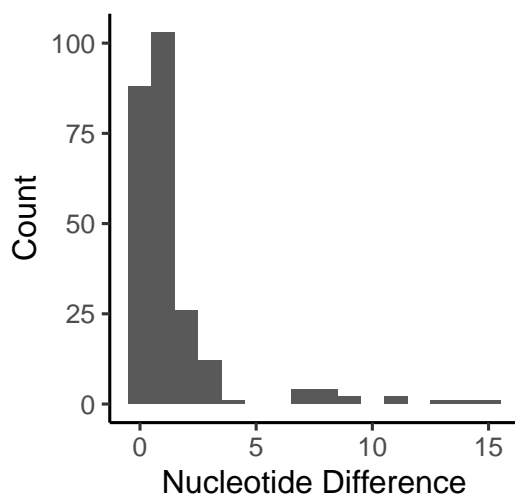
IGHV4-59*12

148 sequences assigned
40 (27%) exact matches, in which:
40 unique CDR3
6 unique J



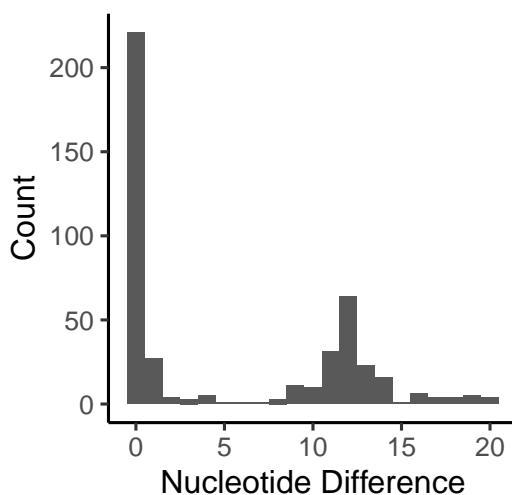
IGHV4-34*01_02_T300C

246 sequences assigned
88 (35.8%) exact matches, in which:
87 unique CDR3
7 unique J



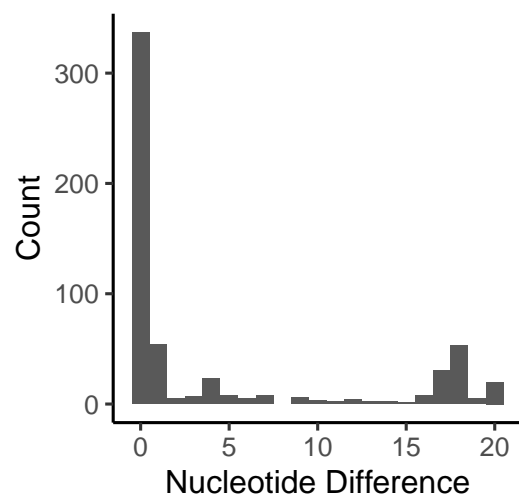
IGHV4-39*02_C258G

526 sequences assigned
221 (42%) exact matches, in which:
199 unique CDR3
7 unique J



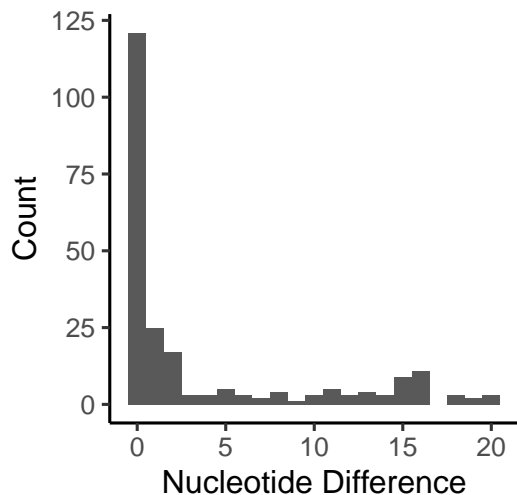
IGHV4-59*02_G88A

746 sequences assigned
337 (45.2%) exact matches, in which:
325 unique CDR3
7 unique J



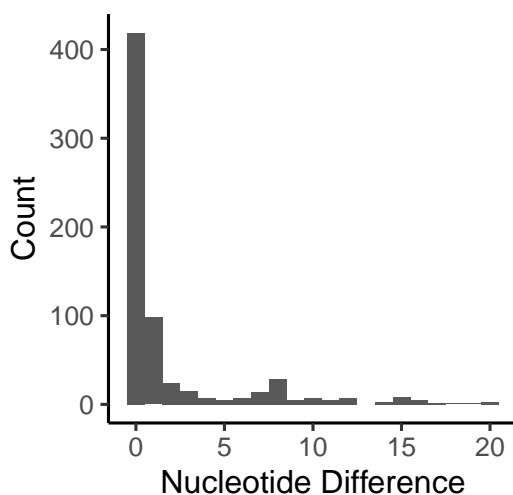
IGHV4–61*01

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



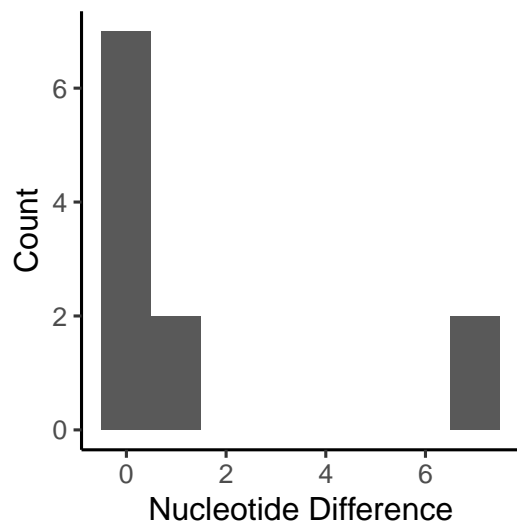
IGHV5–51*07_A128G

696 sequences assigned
419 (60.2%) exact matches, in which:
246 unique CDR3
7 unique J



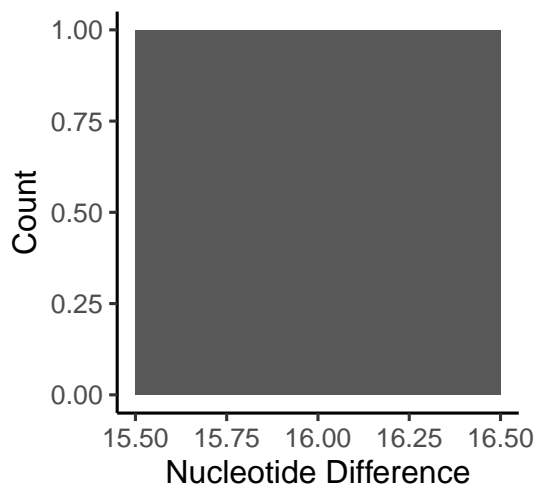
IGHV7–4–1*01

11 sequences assigned
7 (63.6%) exact matches, in which:
7 unique CDR3
4 unique J



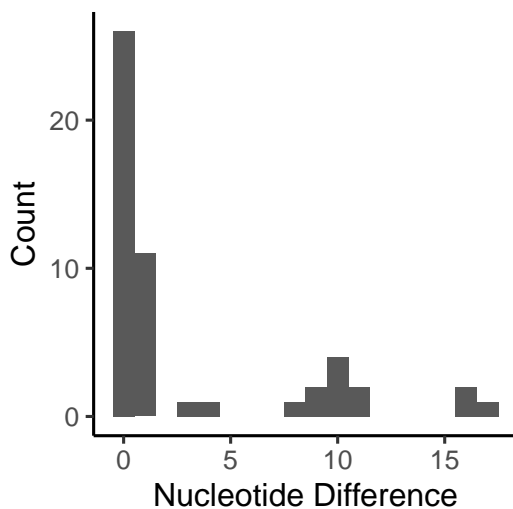
IGHV4/OR15–8*01

1 sequences assigned
No exact matches.



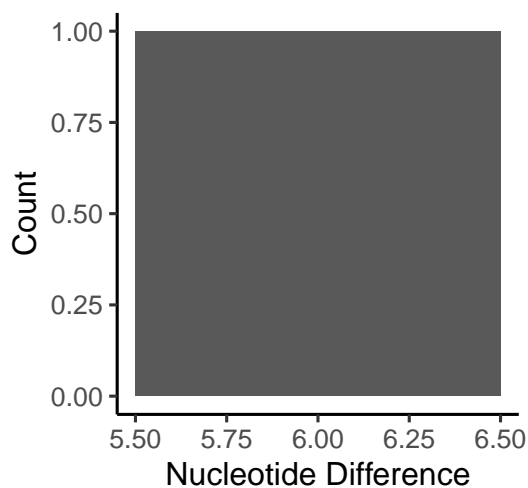
IGHV6–1*01_02

51 sequences assigned
26 (51%) exact matches, in which:
26 unique CDR3
5 unique J



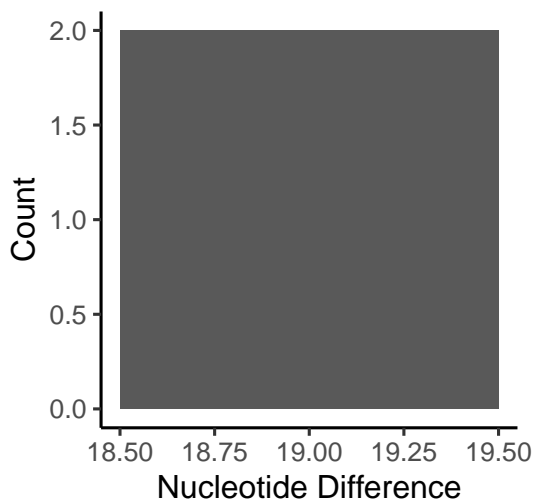
IGHV5–10–1*01_03

1 sequences assigned
No exact matches.

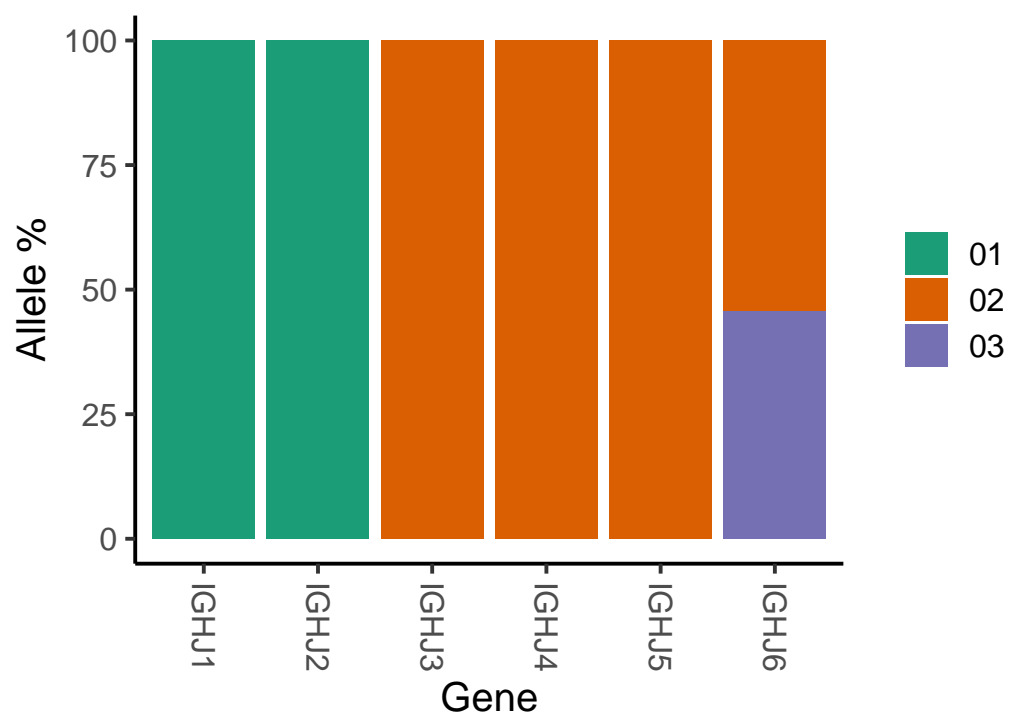


IGHV3/OR16–9*01

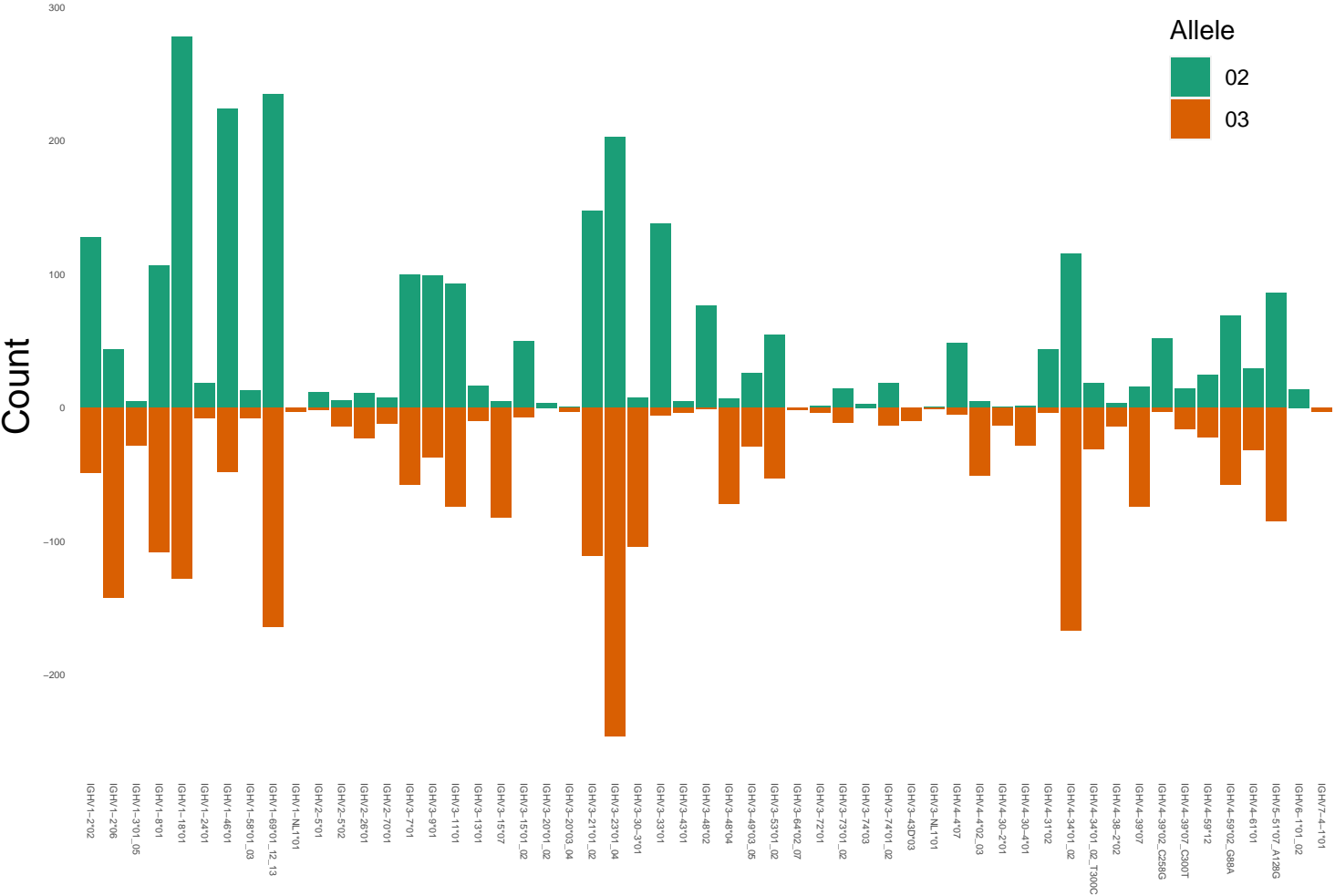
2 sequences assigned
No exact matches.



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.