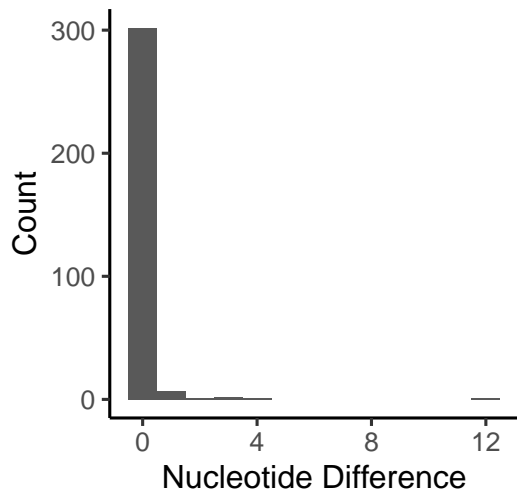


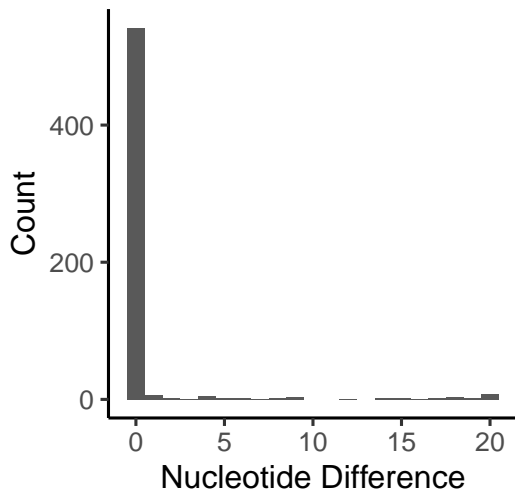
IGHV1–2*04

316 sequences assigned
302 (95.6%) exact matches, in which:
302 unique CDR3
6 unique J



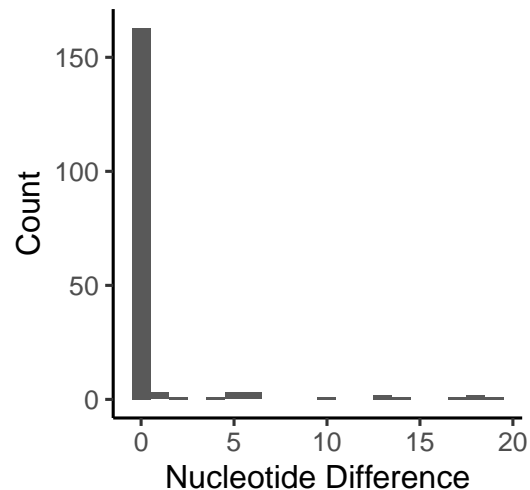
IGHV1–18*01

592 sequences assigned
542 (91.6%) exact matches, in which:
542 unique CDR3
6 unique J



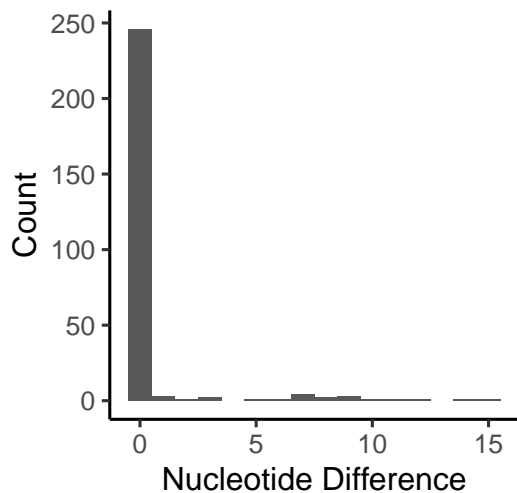
IGHV1–46*01

183 sequences assigned
163 (89.1%) exact matches, in which:
163 unique CDR3
6 unique J



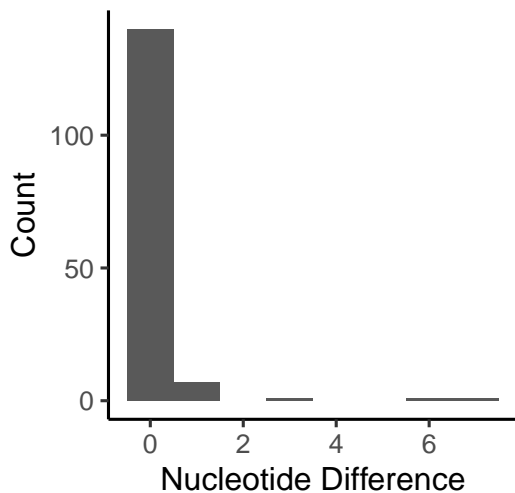
IGHV1–3*01_05

271 sequences assigned
246 (90.8%) exact matches, in which:
246 unique CDR3
6 unique J



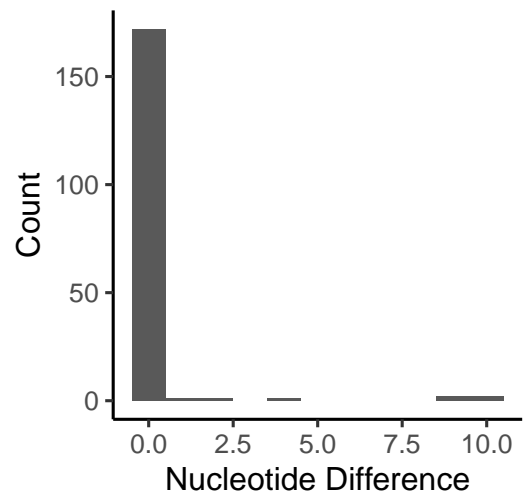
IGHV1–24*01

150 sequences assigned
140 (93.3%) exact matches, in which:
140 unique CDR3
6 unique J



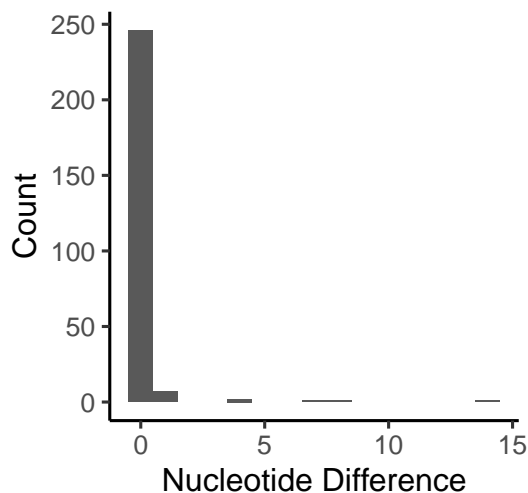
IGHV1–46*04

181 sequences assigned
172 (95%) exact matches, in which:
172 unique CDR3
5 unique J



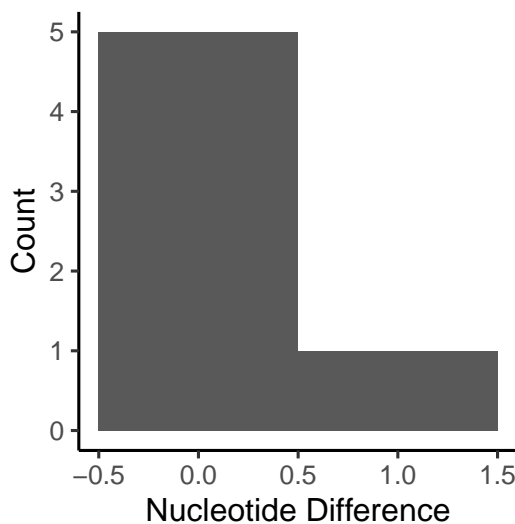
IGHV1–8*01

258 sequences assigned
246 (95.3%) exact matches, in which:
244 unique CDR3
6 unique J



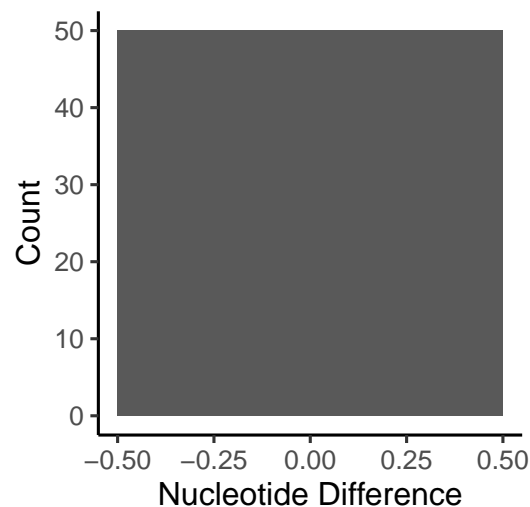
IGHV1–45*02

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



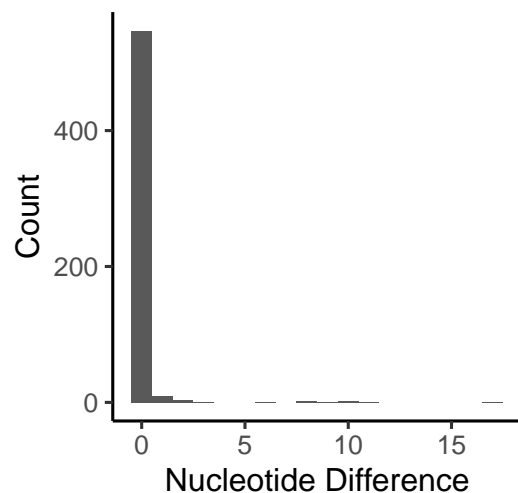
IGHV1–58*02

50 sequences assigned
50 (100%) exact matches, in which:
50 unique CDR3
5 unique J



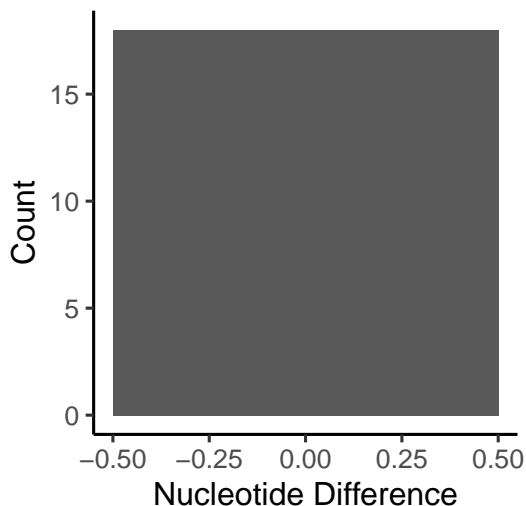
IGHV1–69*04_09

573 sequences assigned
547 (95.5%) exact matches, in which:
547 unique CDR3
6 unique J



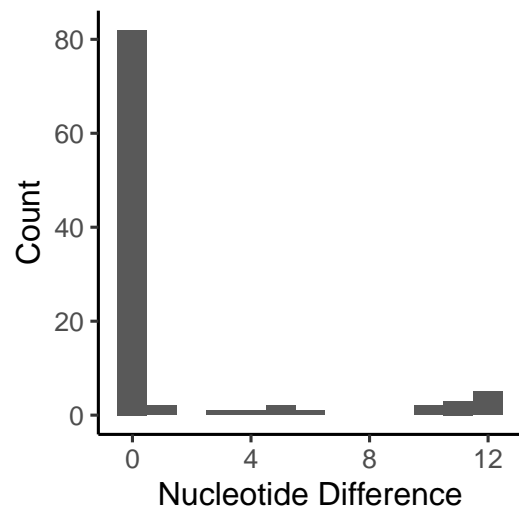
IGHV2–26*01

19 sequences assigned
18 (94.7%) exact matches, in which:
18 unique CDR3
4 unique J



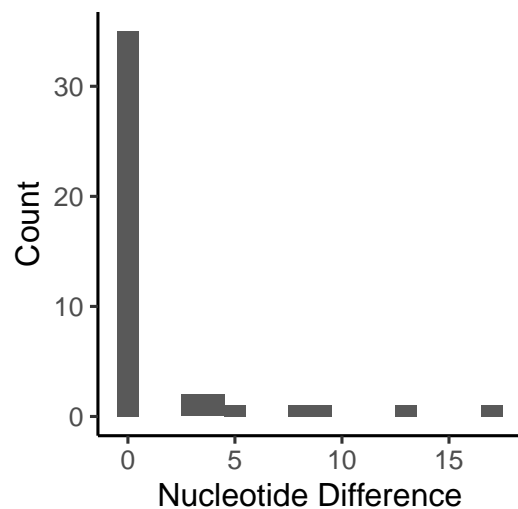
IGHV3–7*04

99 sequences assigned
82 (82.8%) exact matches, in which:
82 unique CDR3
6 unique J



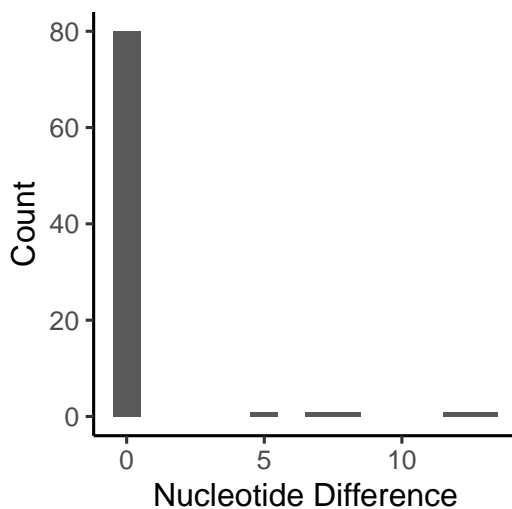
IGHV2–5*01

44 sequences assigned
35 (79.5%) exact matches, in which:
35 unique CDR3
5 unique J



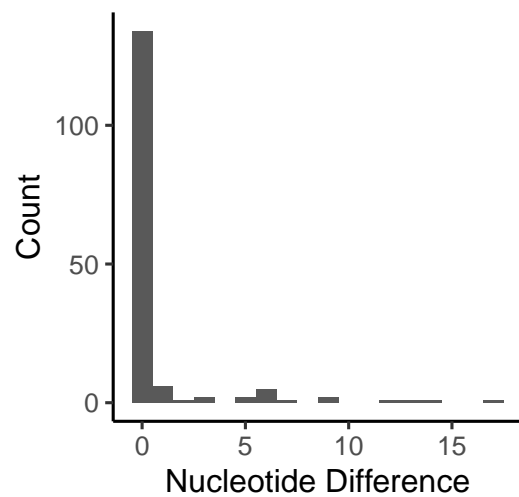
IGHV2–70*11_15

85 sequences assigned
80 (94.1%) exact matches, in which:
80 unique CDR3
6 unique J



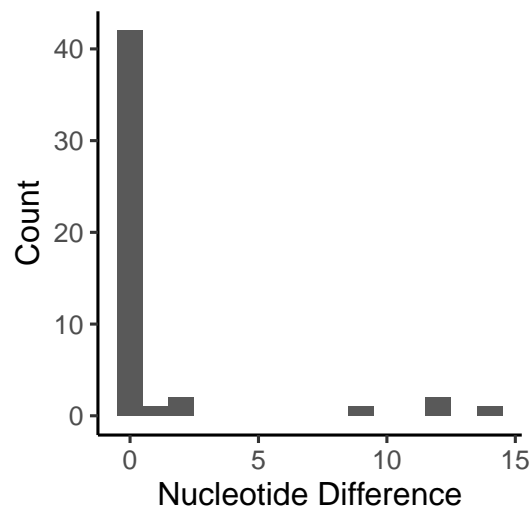
IGHV3–9*01

157 sequences assigned
134 (85.4%) exact matches, in which:
134 unique CDR3
6 unique J



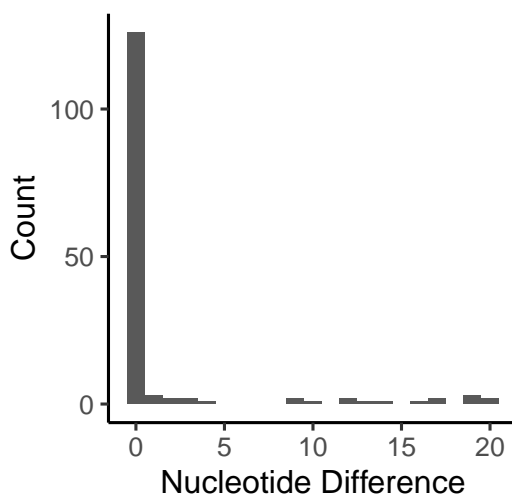
IGHV2–5*02

50 sequences assigned
42 (84%) exact matches, in which:
42 unique CDR3
6 unique J



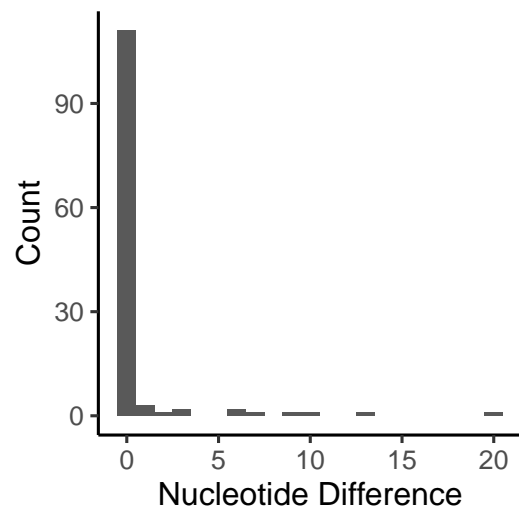
IGHV3–7*01

149 sequences assigned
126 (84.6%) exact matches, in which:
126 unique CDR3
6 unique J



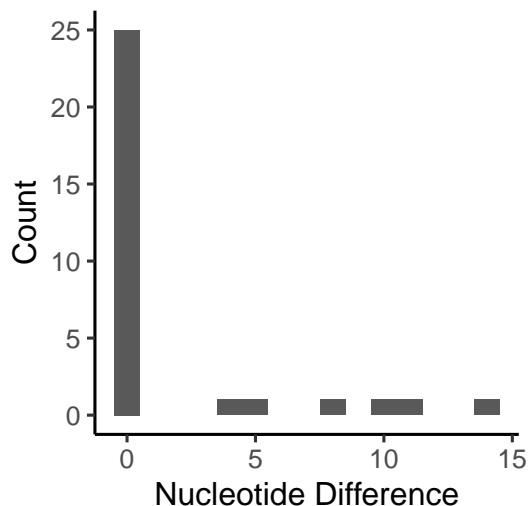
IGHV3–11*01

124 sequences assigned
111 (89.5%) exact matches, in which:
111 unique CDR3
6 unique J



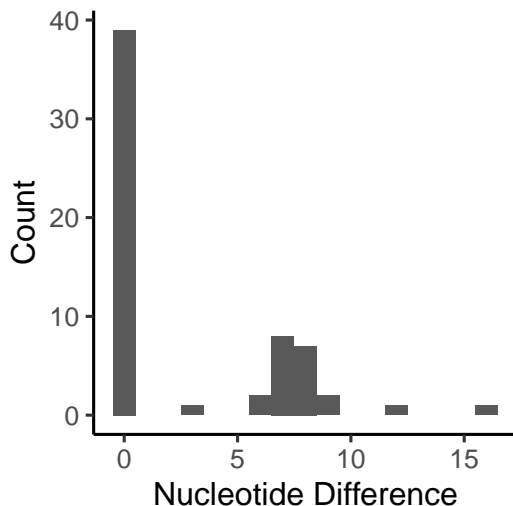
IGHV3-11*06

31 sequences assigned
25 (80.6%) exact matches, in which:
25 unique CDR3
6 unique J



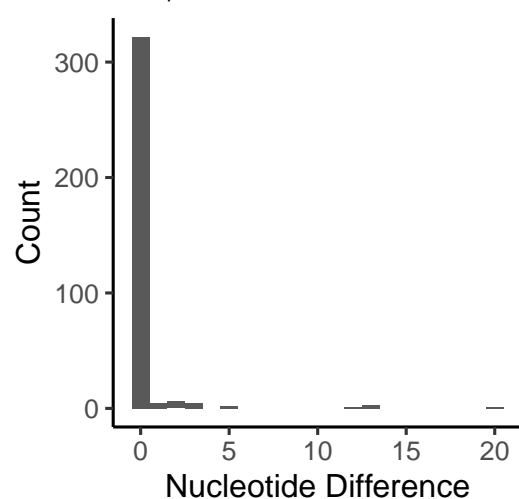
IGHV3-15*01_02

63 sequences assigned
39 (61.9%) exact matches, in which:
39 unique CDR3
5 unique J



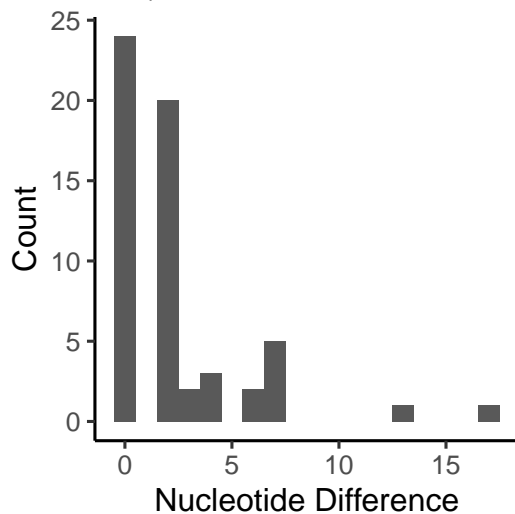
IGHV3-21*01_02

348 sequences assigned
322 (92.5%) exact matches, in which:
322 unique CDR3
6 unique J



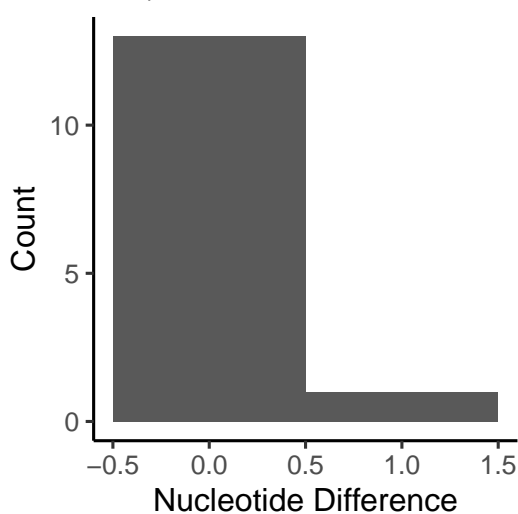
IGHV3-13*01

59 sequences assigned
24 (40.7%) exact matches, in which:
24 unique CDR3
5 unique J



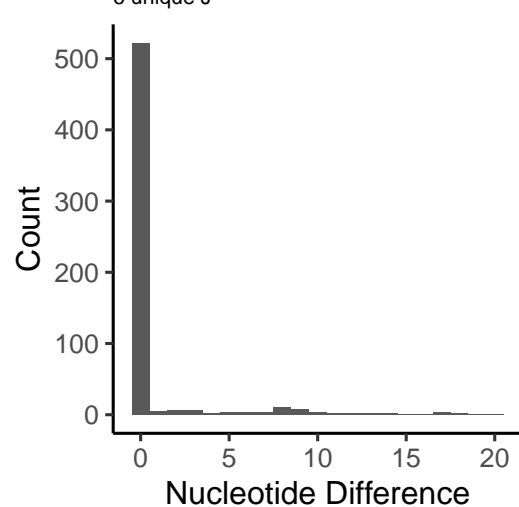
IGHV3-20*01_02

14 sequences assigned
13 (92.9%) exact matches, in which:
13 unique CDR3
5 unique J



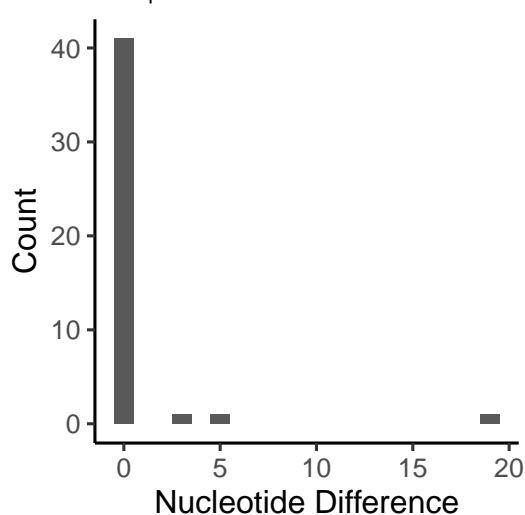
IGHV3-23*01_04

602 sequences assigned
522 (86.7%) exact matches, in which:
522 unique CDR3
6 unique J



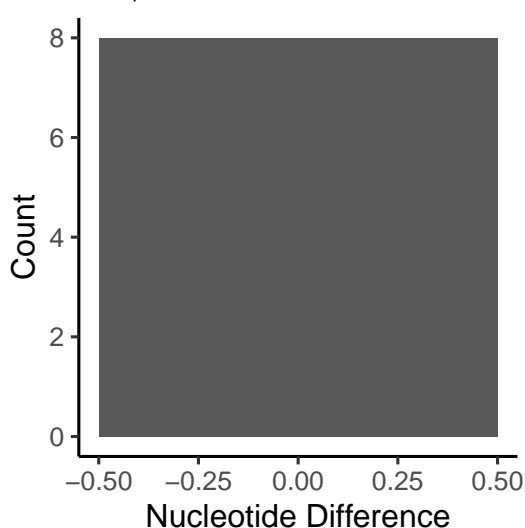
IGHV3-15*07

44 sequences assigned
41 (93.2%) exact matches, in which:
41 unique CDR3
5 unique J



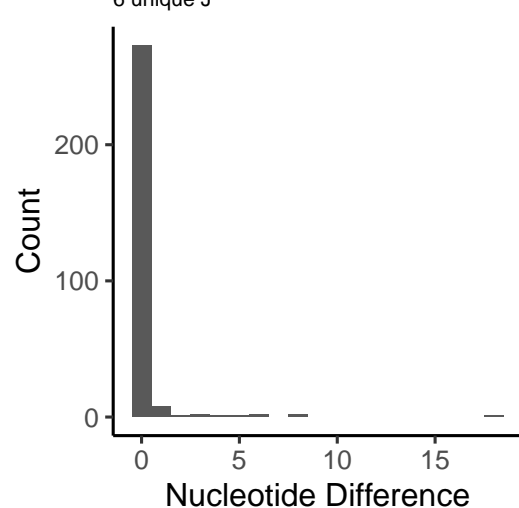
IGHV3-20*03_04

8 sequences assigned
8 (100%) exact matches, in which:
8 unique CDR3
2 unique J



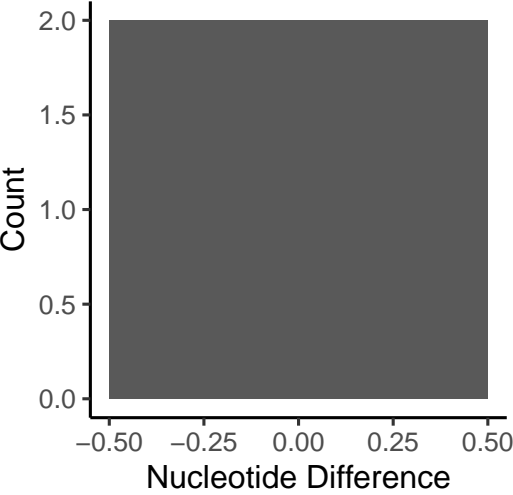
IGHV3-30-3*01

296 sequences assigned
273 (92.2%) exact matches, in which:
273 unique CDR3
6 unique J



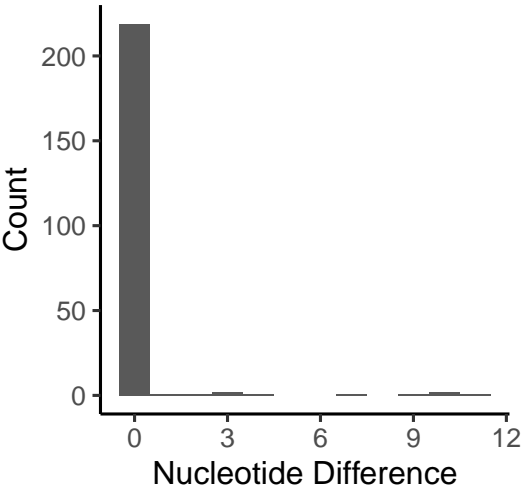
IGHV3-30-5*01

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



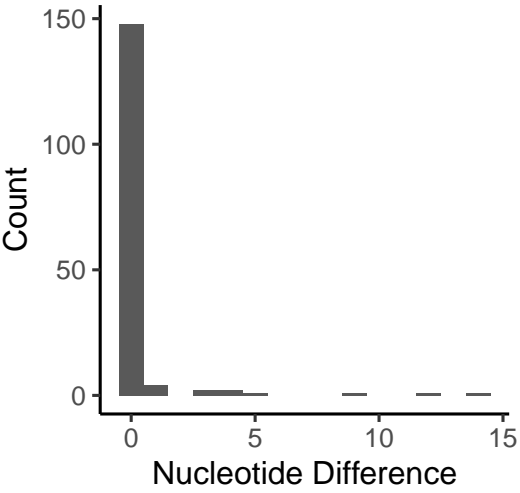
IGHV3-33*08

229 sequences assigned
219 (95.6%) exact matches, in which:
219 unique CDR3
6 unique J



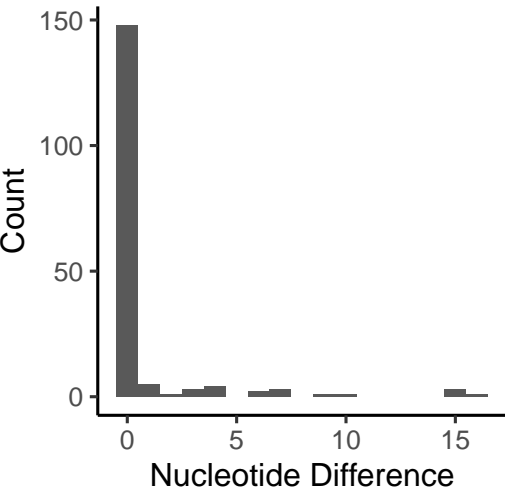
IGHV3-48*02

162 sequences assigned
148 (91.4%) exact matches, in which:
147 unique CDR3
6 unique J



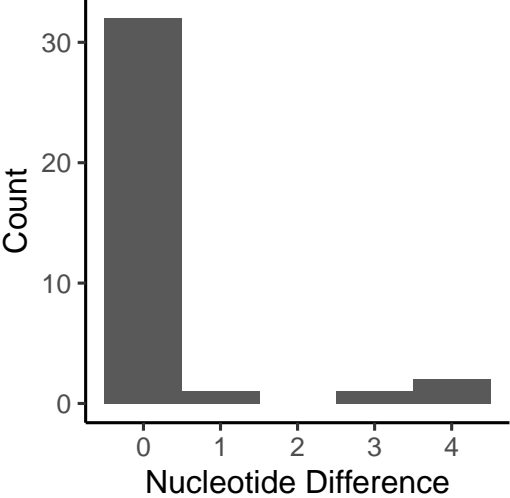
IGHV3-30*03

173 sequences assigned
148 (85.5%) exact matches, in which:
148 unique CDR3
6 unique J



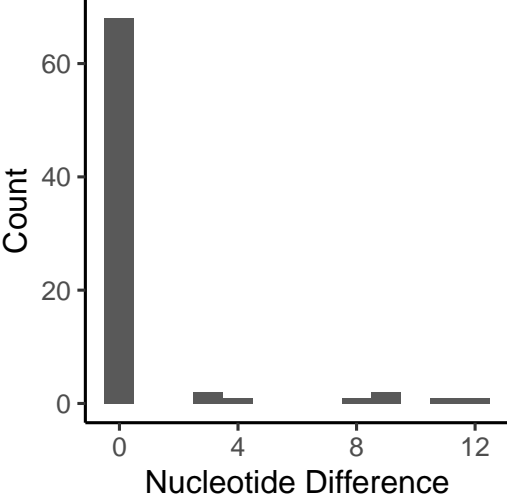
IGHV3-43*01

36 sequences assigned
32 (88.9%) exact matches, in which:
32 unique CDR3
5 unique J



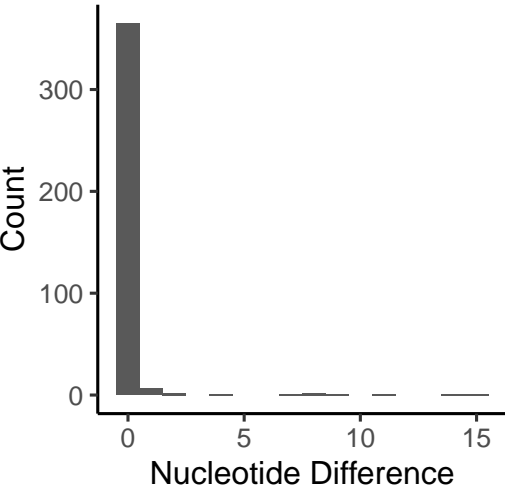
IGHV3-49*03_05

80 sequences assigned
68 (85%) exact matches, in which:
68 unique CDR3
6 unique J



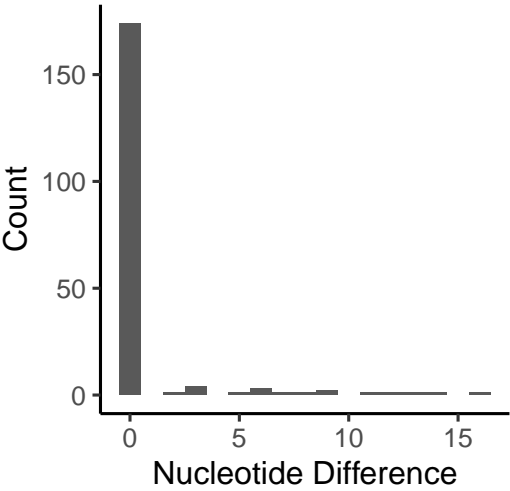
IGHV3-33*01

381 sequences assigned
365 (95.8%) exact matches, in which:
364 unique CDR3
6 unique J



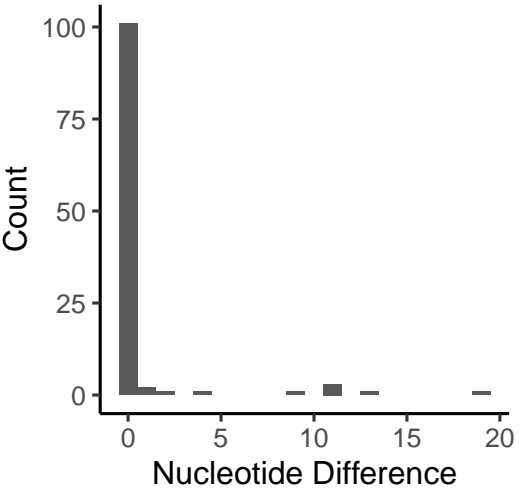
IGHV3-48*01

192 sequences assigned
174 (90.6%) exact matches, in which:
174 unique CDR3
6 unique J



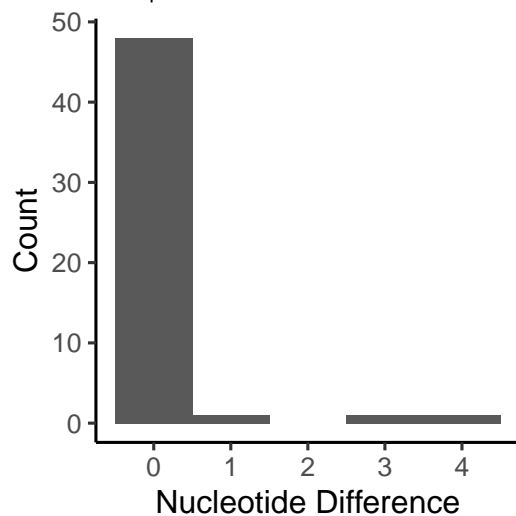
IGHV3-53*01_02

113 sequences assigned
101 (89.4%) exact matches, in which:
101 unique CDR3
6 unique J



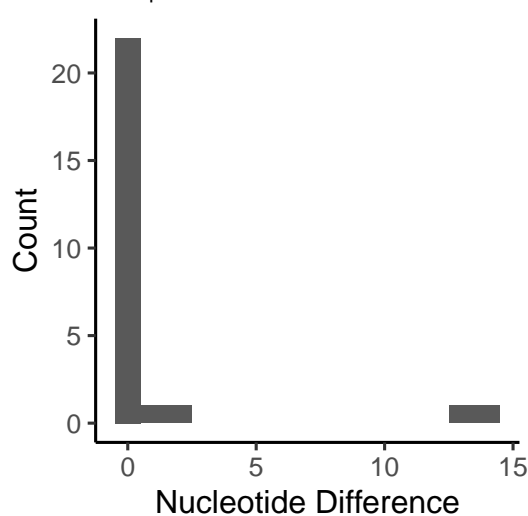
IGHV3-64*01

51 sequences assigned
48 (94.1%) exact matches, in which:
48 unique CDR3
5 unique J



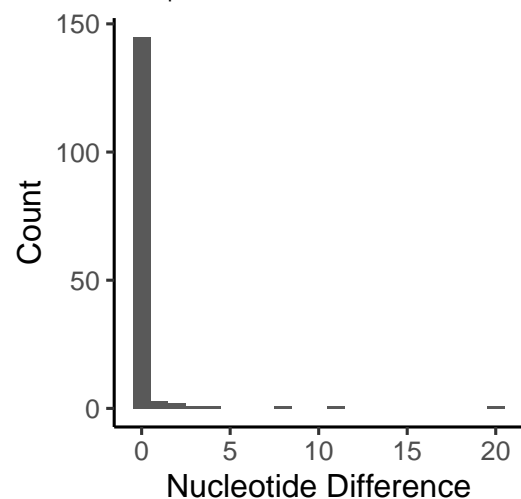
IGHV3-73*01_02

26 sequences assigned
22 (84.6%) exact matches, in which:
22 unique CDR3
5 unique J



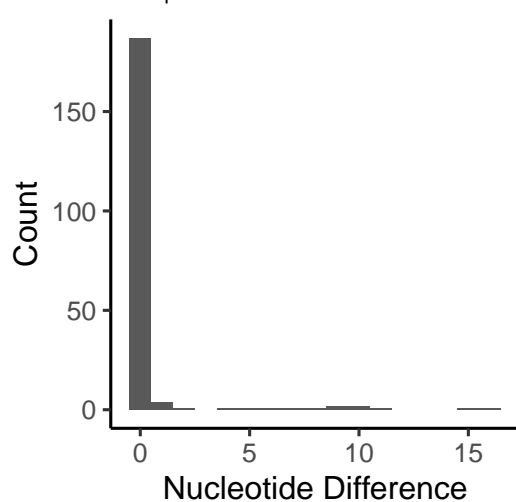
IGHV4-4*02_03

160 sequences assigned
145 (90.6%) exact matches, in which:
145 unique CDR3
6 unique J



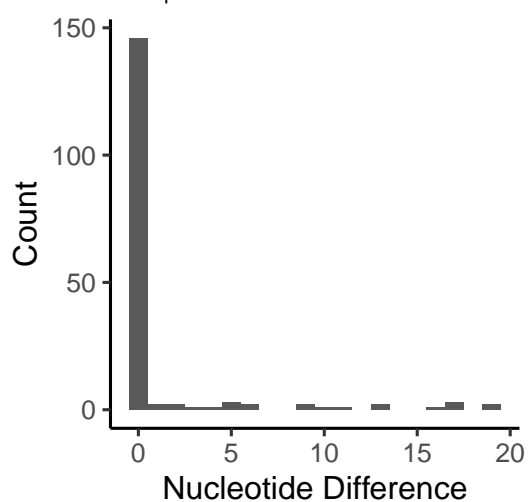
IGHV3-66*01

204 sequences assigned
187 (91.7%) exact matches, in which:
187 unique CDR3
6 unique J



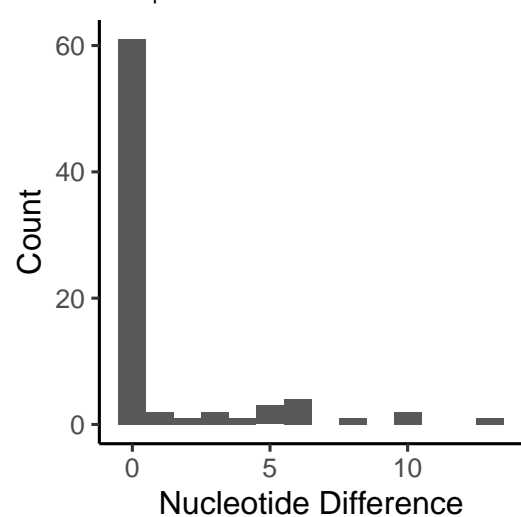
IGHV3-74*01_02

171 sequences assigned
146 (85.4%) exact matches, in which:
146 unique CDR3
5 unique J



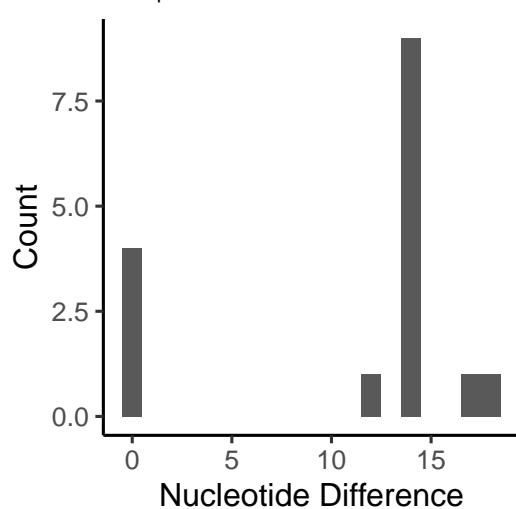
IGHV4-30-4*01

78 sequences assigned
61 (78.2%) exact matches, in which:
61 unique CDR3
4 unique J



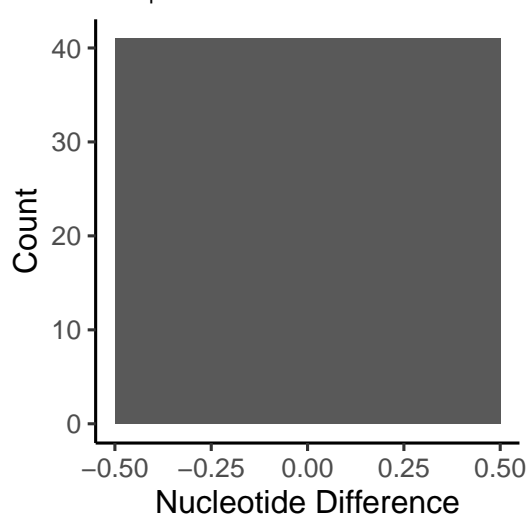
IGHV3-72*01

18 sequences assigned
4 (22.2%) exact matches, in which:
4 unique CDR3
2 unique J



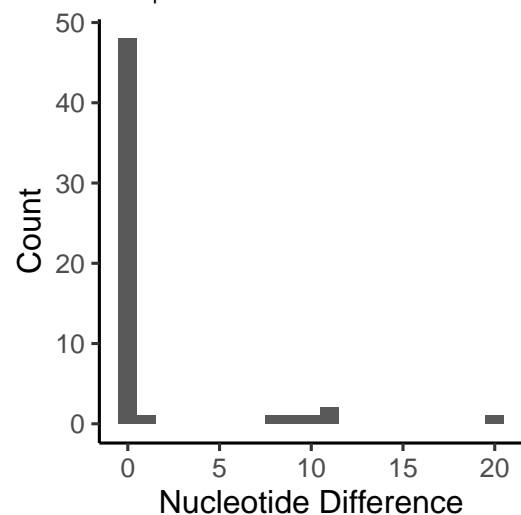
IGHV3-64D*06

41 sequences assigned
41 (100%) exact matches, in which:
41 unique CDR3
4 unique J



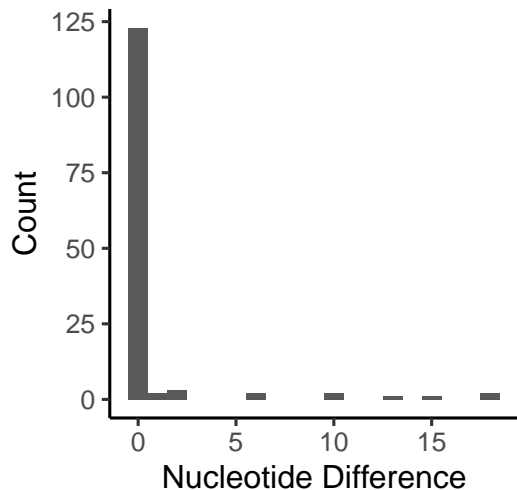
IGHV4-30-2*01

55 sequences assigned
48 (87.3%) exact matches, in which:
48 unique CDR3
6 unique J



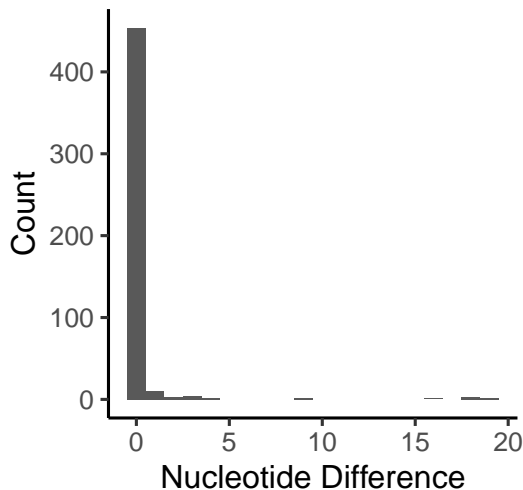
IGHV4-31*02

138 sequences assigned
123 (89.1%) exact matches, in which:
123 unique CDR3
5 unique J



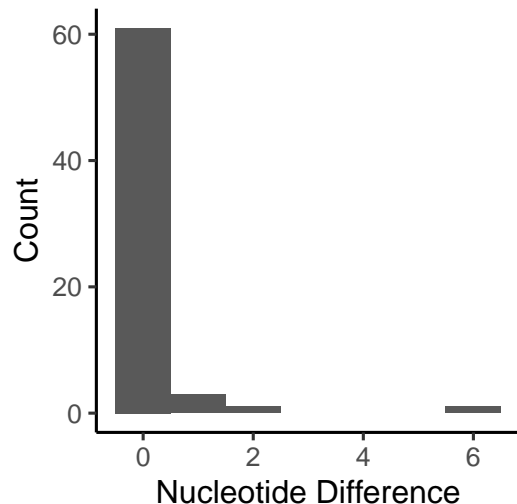
IGHV4-59*08

500 sequences assigned
454 (90.8%) exact matches, in which:
454 unique CDR3
6 unique J



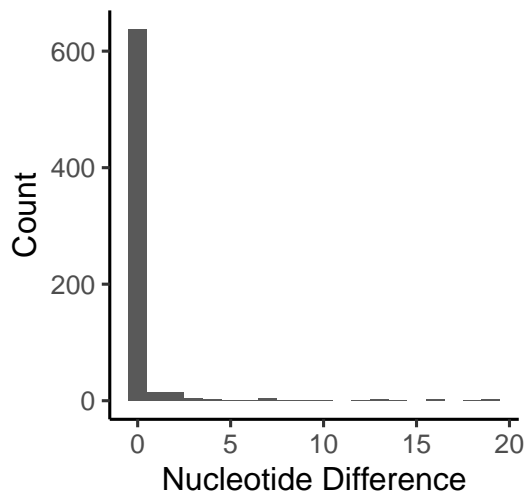
IGHV5-10-1*01_03

66 sequences assigned
61 (92.4%) exact matches, in which:
61 unique CDR3
6 unique J



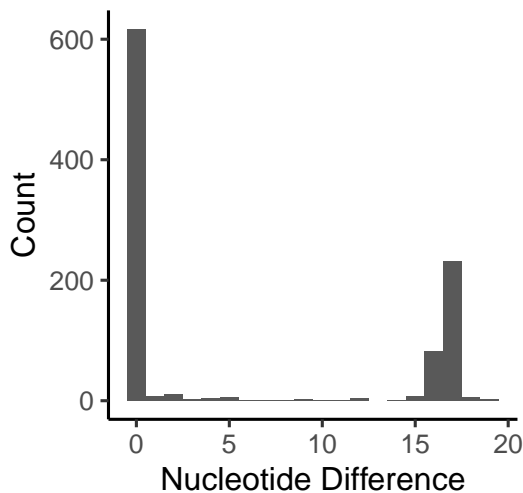
IGHV4-34*01_02

693 sequences assigned
638 (92.1%) exact matches, in which:
634 unique CDR3
6 unique J



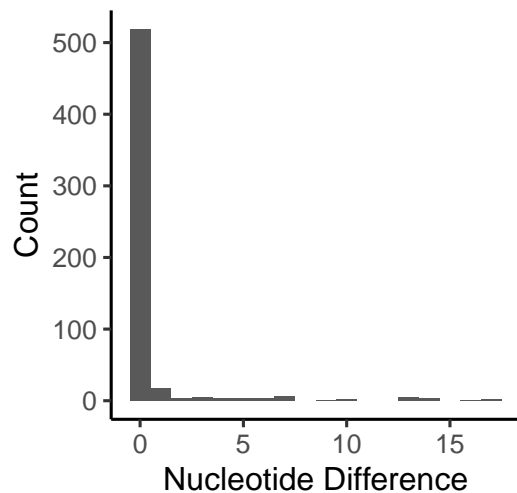
IGHV4-59*02_G88A

999 sequences assigned
617 (61.8%) exact matches, in which:
616 unique CDR3
6 unique J



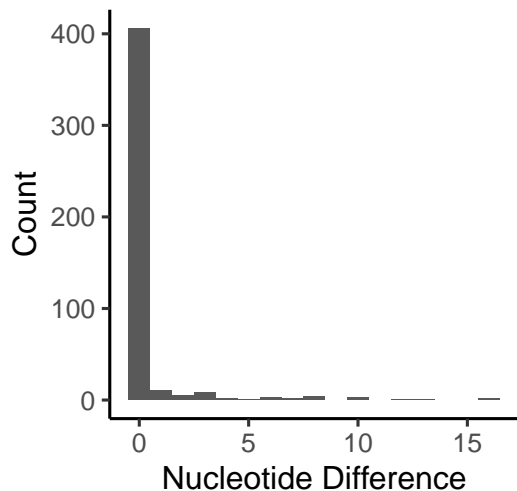
IGHV5-51*07_A128G

577 sequences assigned
519 (89.9%) exact matches, in which:
517 unique CDR3
6 unique J



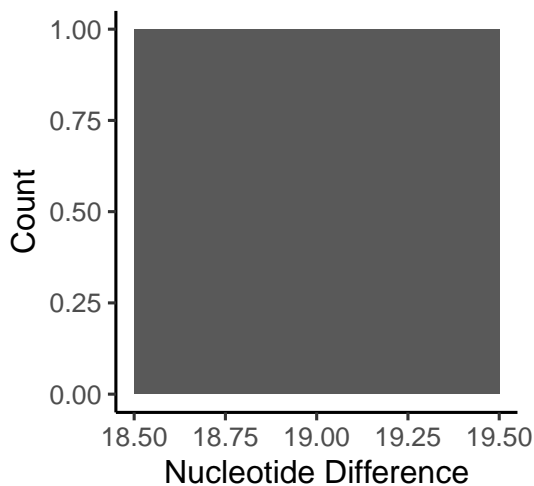
IGHV4-39*02_C258G

456 sequences assigned
406 (89%) exact matches, in which:
404 unique CDR3
6 unique J



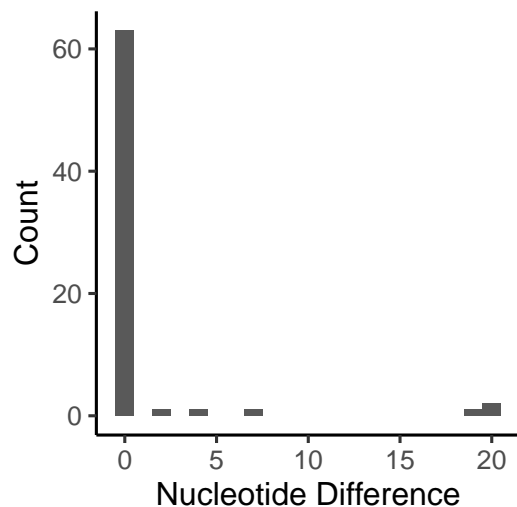
IGHV4-61*02

1 sequences assigned
No exact matches.



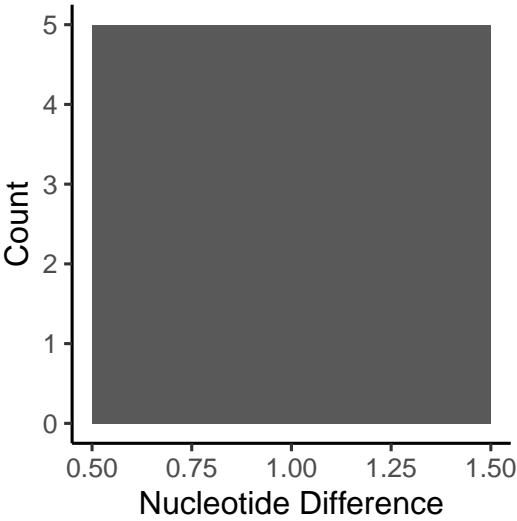
IGHV6-1*01_02

69 sequences assigned
63 (91.3%) exact matches, in which:
63 unique CDR3
5 unique J



IGHV7-4-1*01

5 sequences assigned
No exact matches.





Warning – no inferred sequences found.