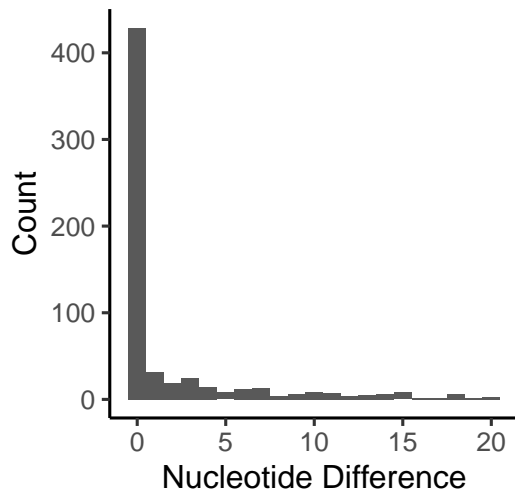


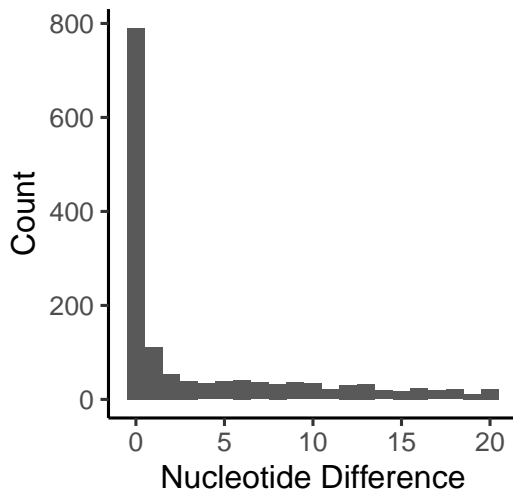
IGHV1-2*04

641 sequences assigned
429 (66.9%) exact matches, in which:
427 unique CDR3
6 unique J



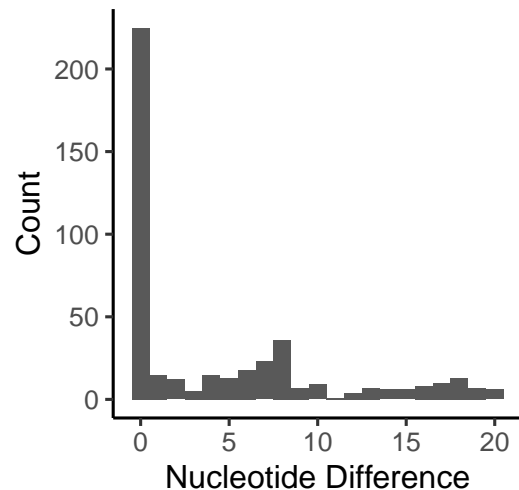
IGHV1-18*01

1582 sequences assigned
791 (50%) exact matches, in which:
782 unique CDR3
6 unique J



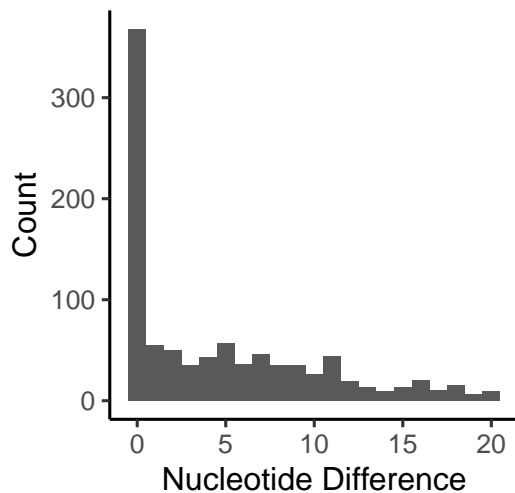
IGHV1-46*01

495 sequences assigned
225 (45.5%) exact matches, in which:
225 unique CDR3
6 unique J



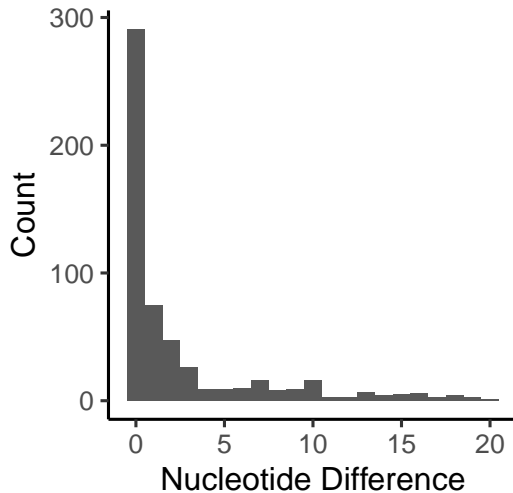
IGHV1-3*01_05

1030 sequences assigned
368 (35.7%) exact matches, in which:
364 unique CDR3
6 unique J



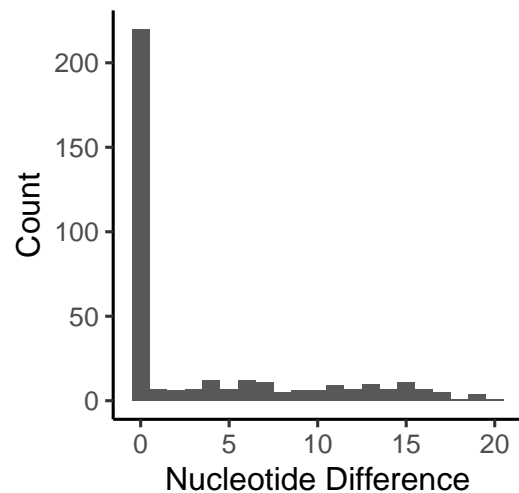
IGHV1-24*01

571 sequences assigned
291 (51%) exact matches, in which:
287 unique CDR3
6 unique J



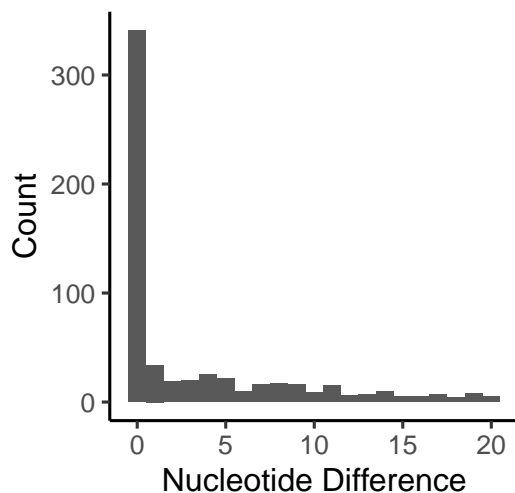
IGHV1-46*04

384 sequences assigned
220 (57.3%) exact matches, in which:
219 unique CDR3
6 unique J



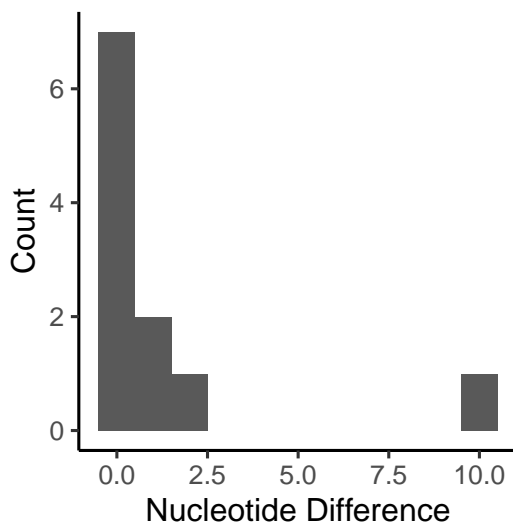
IGHV1-8*01

633 sequences assigned
341 (53.9%) exact matches, in which:
337 unique CDR3
6 unique J



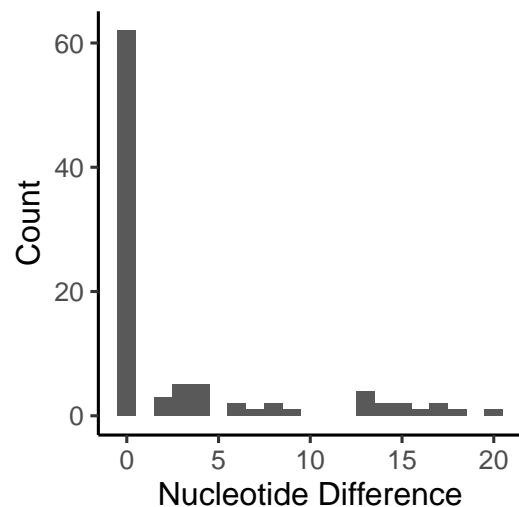
IGHV1-45*02

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



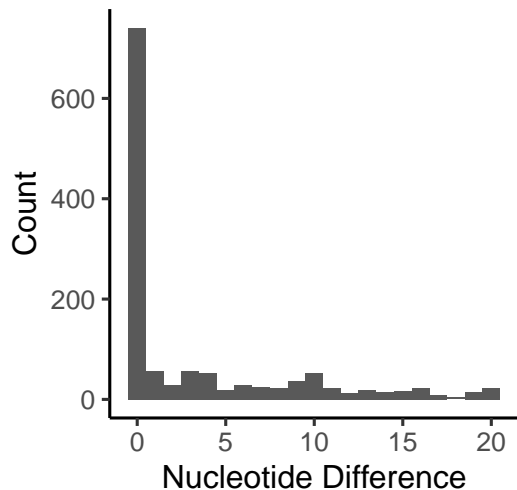
IGHV1-58*02

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



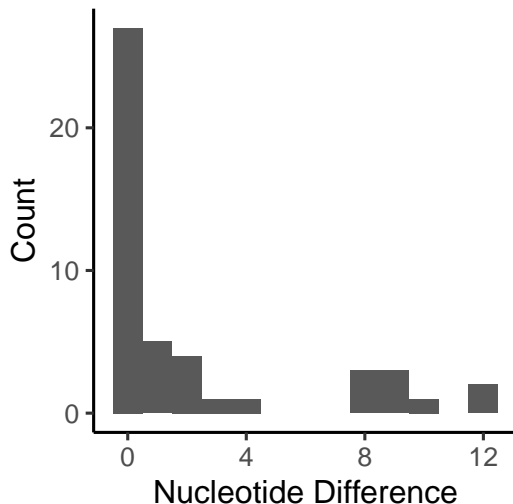
IGHV1–69*04_09

1377 sequences assigned
741 (53.8%) exact matches, in which:
736 unique CDR3
6 unique J



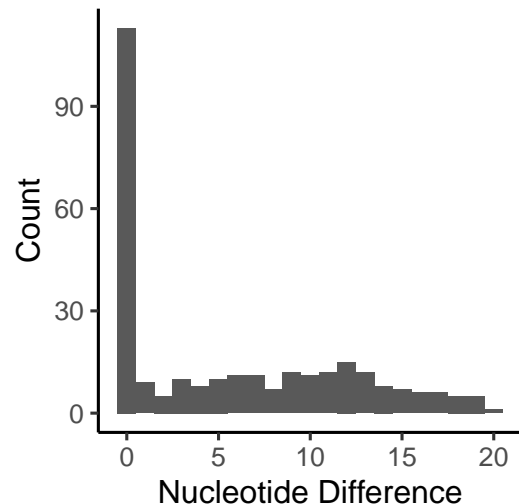
IGHV2–26*01

48 sequences assigned
27 (56.2%) exact matches, in which:
27 unique CDR3
5 unique J



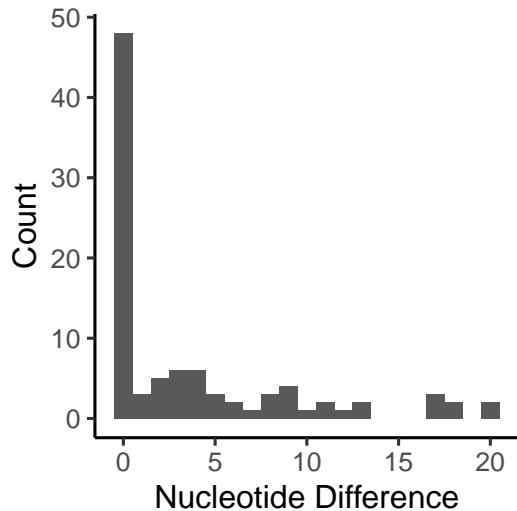
IGHV3–7*04

319 sequences assigned
113 (35.4%) exact matches, in which:
112 unique CDR3
6 unique J



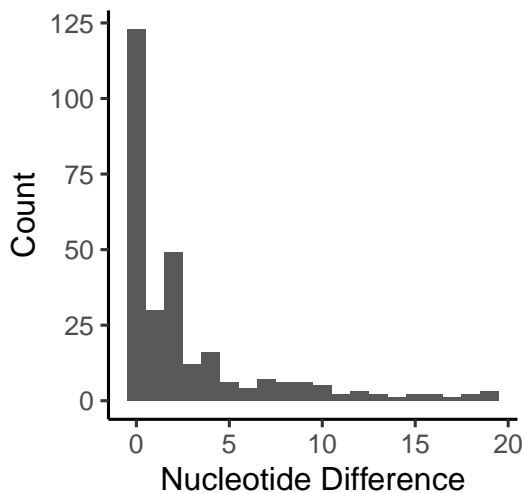
IGHV2–5*01

96 sequences assigned
48 (50%) exact matches, in which:
48 unique CDR3
5 unique J



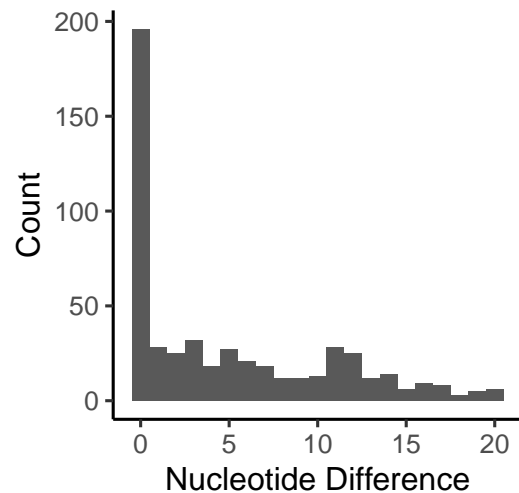
IGHV2–70*11_15

287 sequences assigned
123 (42.9%) exact matches, in which:
122 unique CDR3
6 unique J



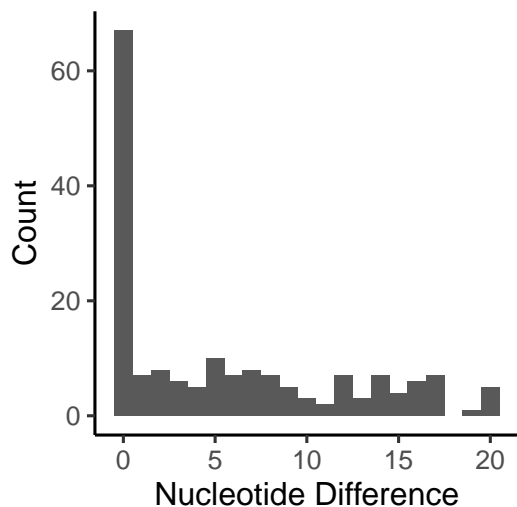
IGHV3–9*01

549 sequences assigned
196 (35.7%) exact matches, in which:
196 unique CDR3
6 unique J



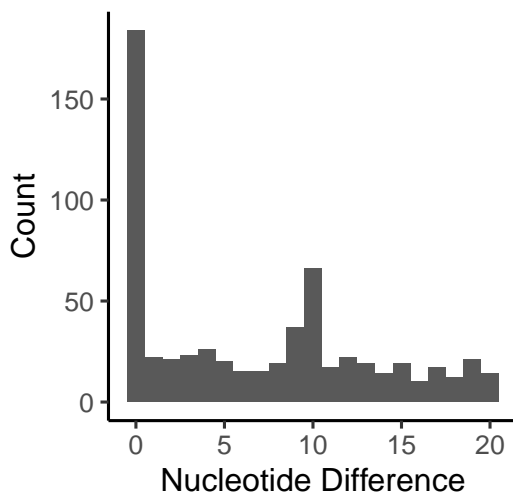
IGHV2–5*02

188 sequences assigned
67 (35.6%) exact matches, in which:
67 unique CDR3
6 unique J



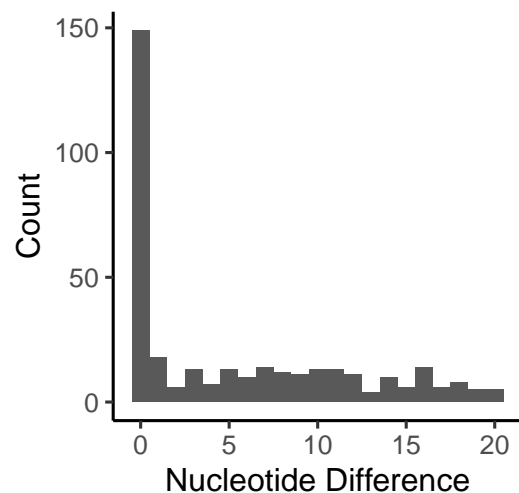
IGHV3–7*01

659 sequences assigned
184 (27.9%) exact matches, in which:
182 unique CDR3
6 unique J



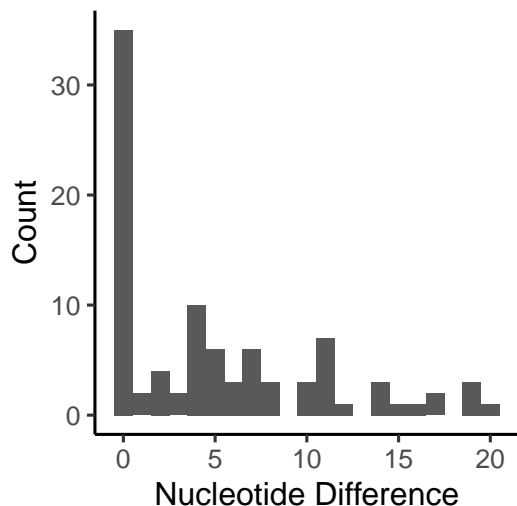
IGHV3–11*01

384 sequences assigned
149 (38.8%) exact matches, in which:
148 unique CDR3
6 unique J



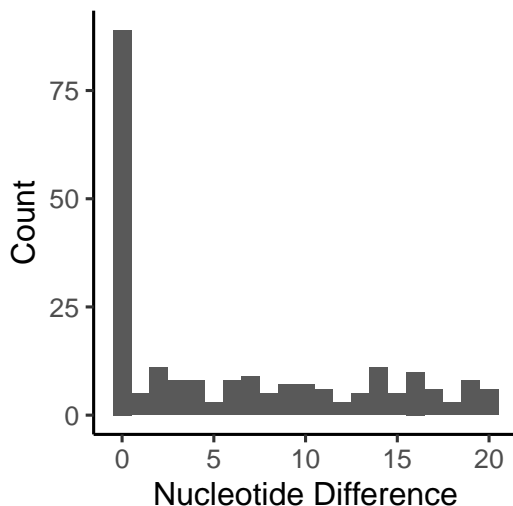
IGHV3-11*06

98 sequences assigned
35 (35.7%) exact matches, in which:
35 unique CDR3
6 unique J



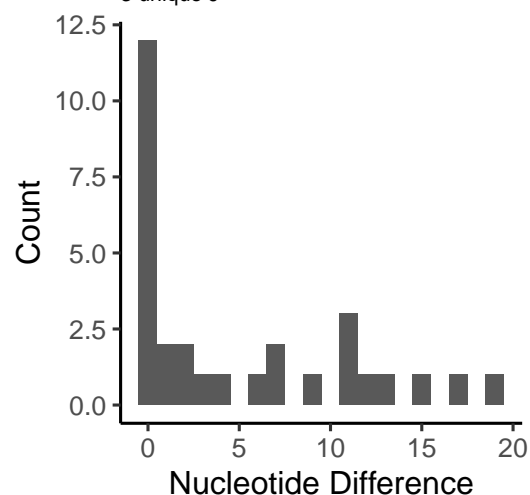
IGHV3-15*07

248 sequences assigned
89 (35.9%) exact matches, in which:
89 unique CDR3
6 unique J



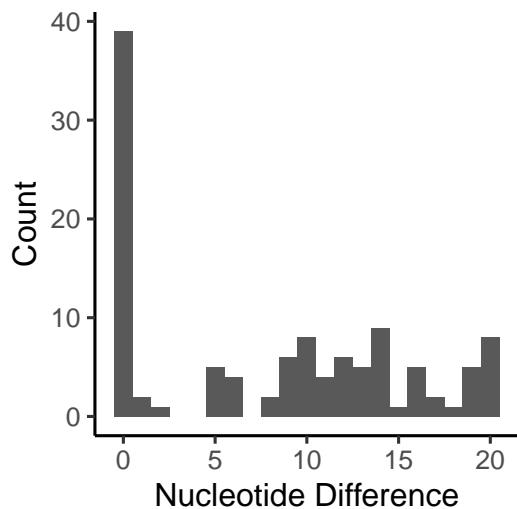
IGHV3-20*03_04

37 sequences assigned
12 (32.4%) exact matches, in which:
12 unique CDR3
3 unique J



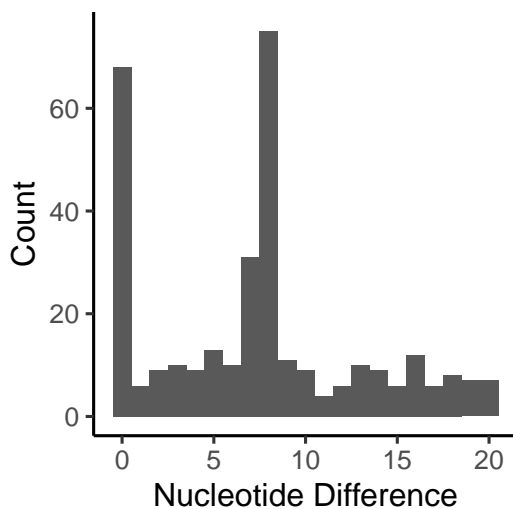
IGHV3-13*01

130 sequences assigned
39 (30%) exact matches, in which:
37 unique CDR3
5 unique J



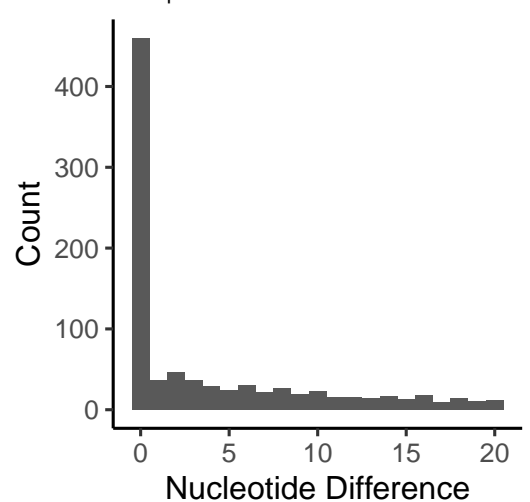
IGHV3-15*01_02

391 sequences assigned
68 (17.4%) exact matches, in which:
68 unique CDR3
5 unique J



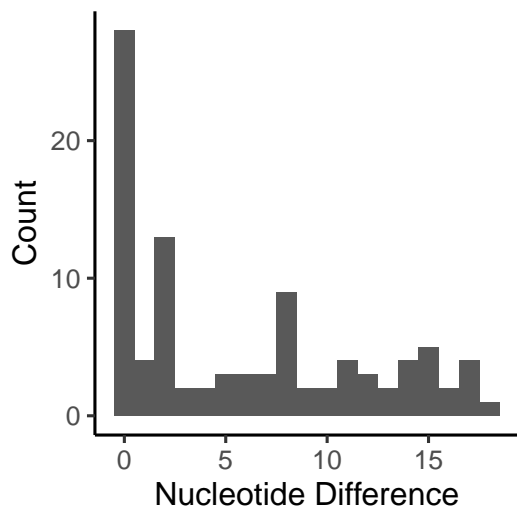
IGHV3-21*01_02

1029 sequences assigned
460 (44.7%) exact matches, in which:
456 unique CDR3
6 unique J



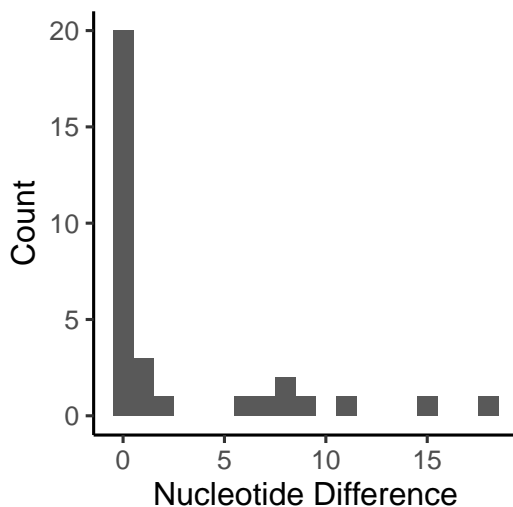
IGHV3-13*01_G290A_T3I

105 sequences assigned
28 (26.7%) exact matches, in which:
27 unique CDR3
5 unique J



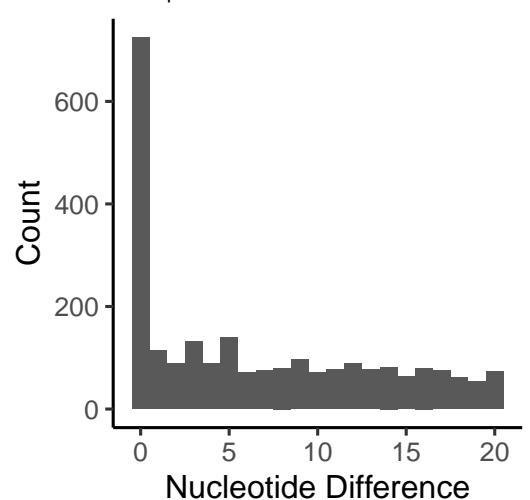
IGHV3-20*01_02

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



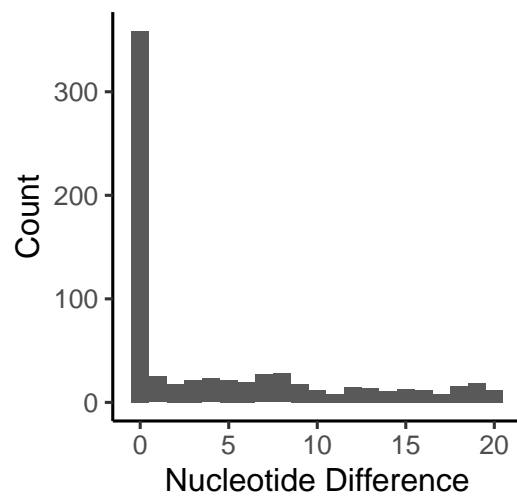
IGHV3-23*01_04

2814 sequences assigned
725 (25.8%) exact matches, in which:
715 unique CDR3
6 unique J



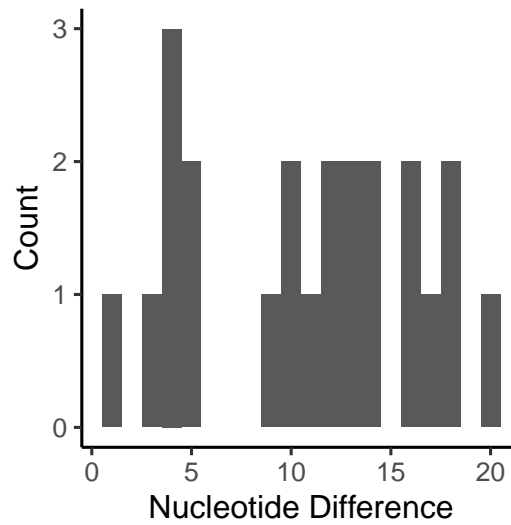
IGHV3-30-3*01

782 sequences assigned
359 (45.9%) exact matches, in which:
357 unique CDR3
6 unique J



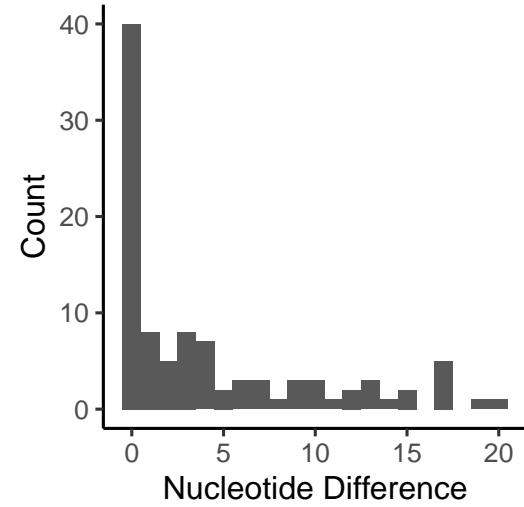
IGHV3-30*04

35 sequences assigned
No exact matches.



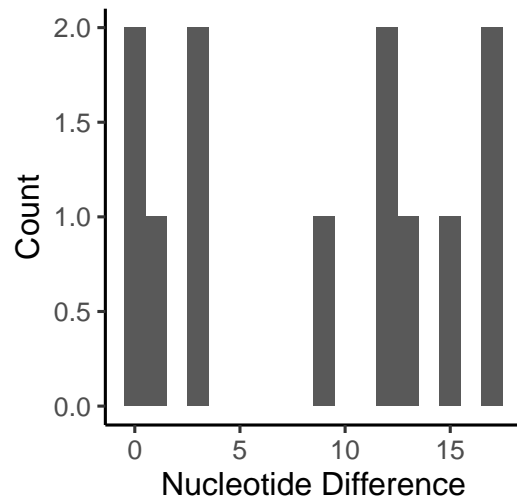
IGHV3-43*01

118 sequences assigned
40 (33.9%) exact matches, in which:
40 unique CDR3
5 unique J



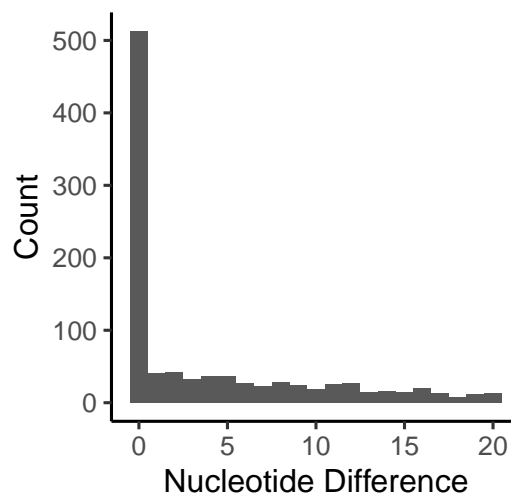
IGHV3-30-5*01

15 sequences assigned
2 (13.3%) exact matches, in which:
2 unique CDR3
2 unique J



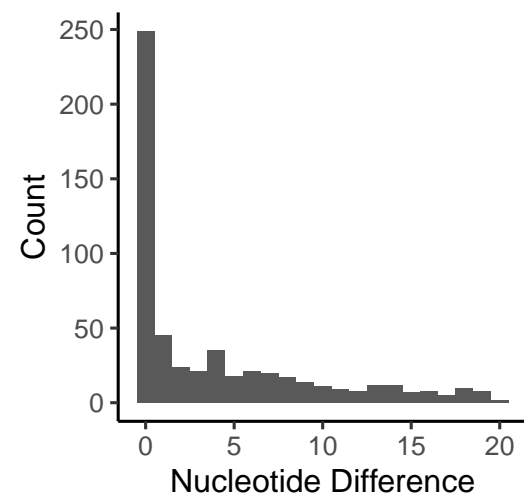
IGHV3-33*01

1093 sequences assigned
513 (46.9%) exact matches, in which:
509 unique CDR3
6 unique J



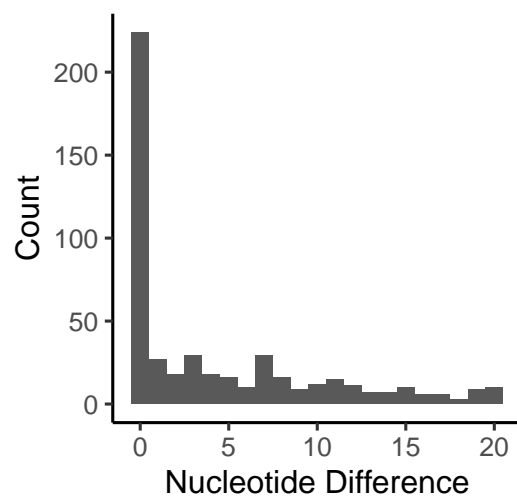
IGHV3-48*01

586 sequences assigned
249 (42.5%) exact matches, in which:
239 unique CDR3
6 unique J



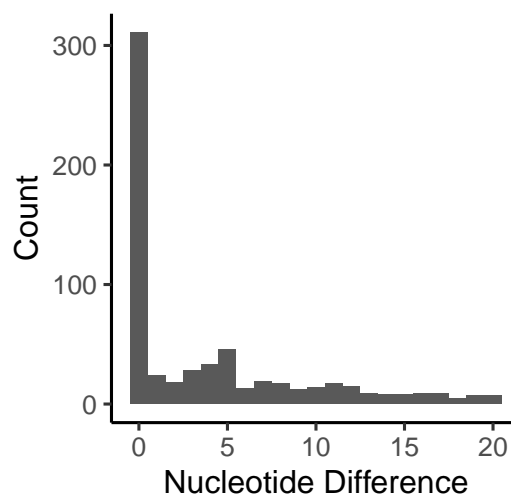
IGHV3-30*03

528 sequences assigned
224 (42.4%) exact matches, in which:
220 unique CDR3
6 unique J



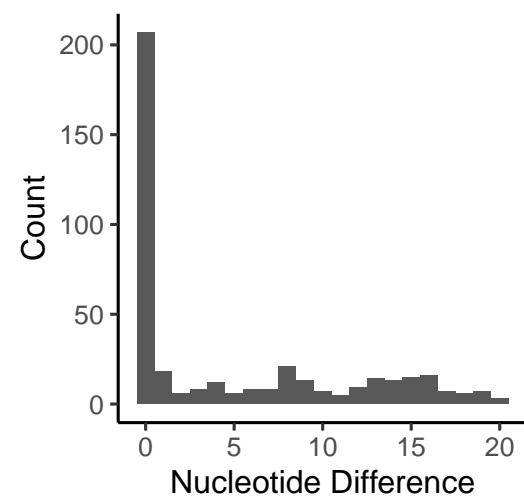
IGHV3-33*08

662 sequences assigned
311 (47%) exact matches, in which:
309 unique CDR3
6 unique J



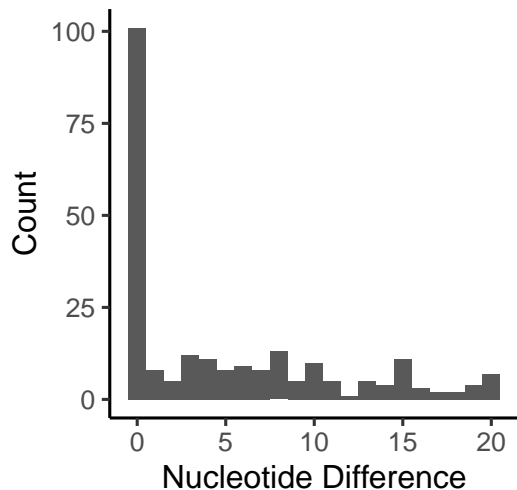
IGHV3-48*02

468 sequences assigned
207 (44.2%) exact matches, in which:
204 unique CDR3
6 unique J



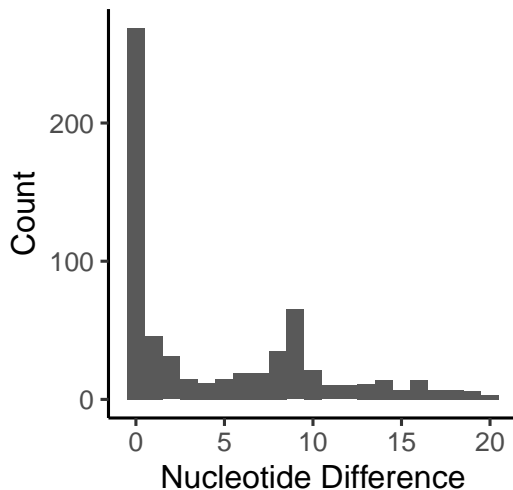
IGHV3-49*03_05

266 sequences assigned
101 (38%) exact matches, in which:
101 unique CDR3
6 unique J



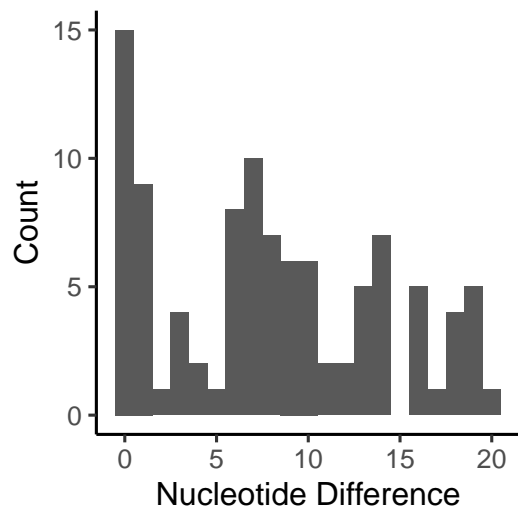
IGHV3-66*01

686 sequences assigned
269 (39.2%) exact matches, in which:
266 unique CDR3
6 unique J



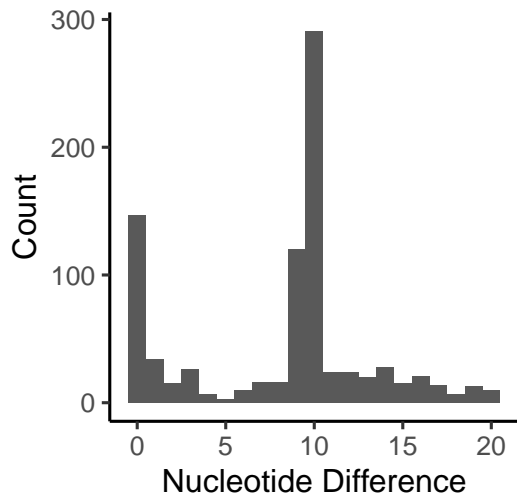
IGHV3-72*01_T159A_C10

108 sequences assigned
15 (13.9%) exact matches, in which:
15 unique CDR3
4 unique J



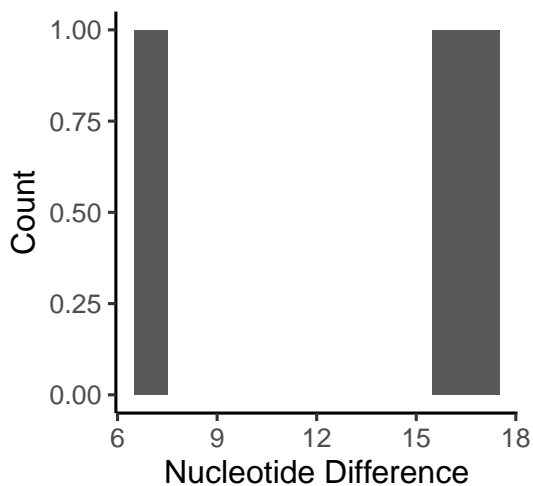
IGHV3-53*01_02

953 sequences assigned
147 (15.4%) exact matches, in which:
142 unique CDR3
6 unique J



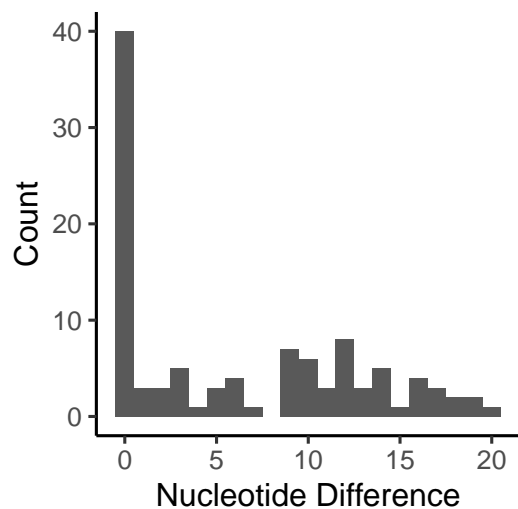
IGHV3-69-1*01

3 sequences assigned
No exact matches.



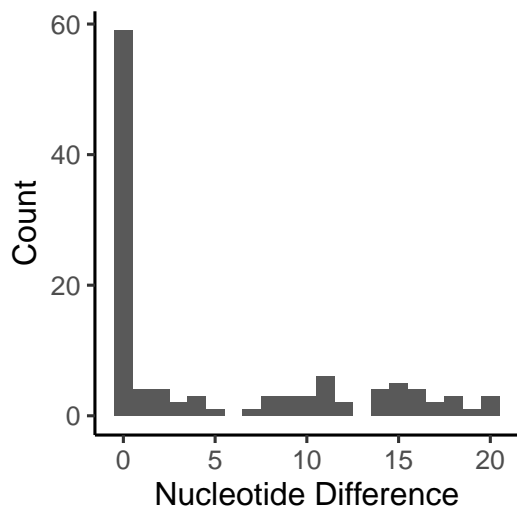
IGHV3-73*01_02

115 sequences assigned
40 (34.8%) exact matches, in which:
40 unique CDR3
5 unique J



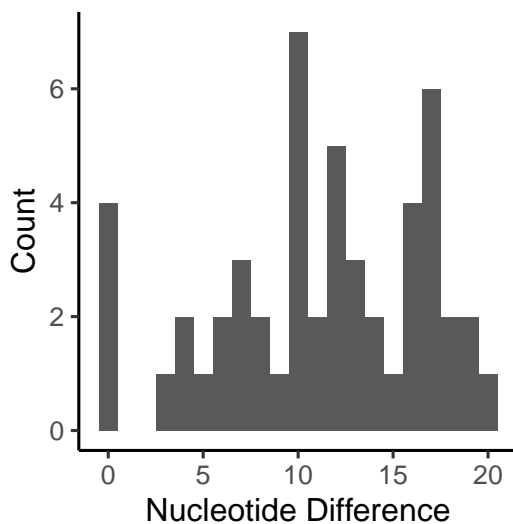
IGHV3-64*01

120 sequences assigned
59 (49.2%) exact matches, in which:
59 unique CDR3
5 unique J



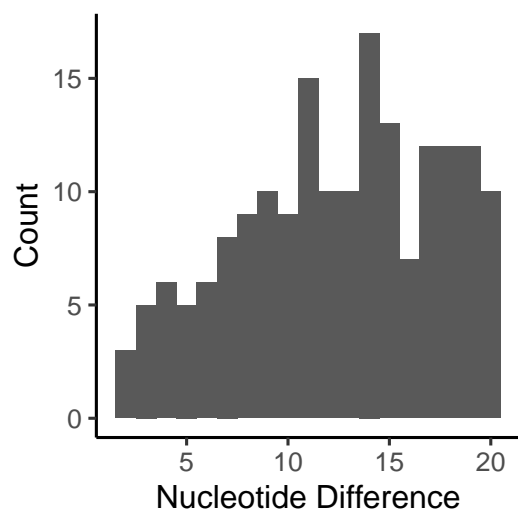
IGHV3-72*01

67 sequences assigned
4 (6%) exact matches, in which:
4 unique CDR3
2 unique J



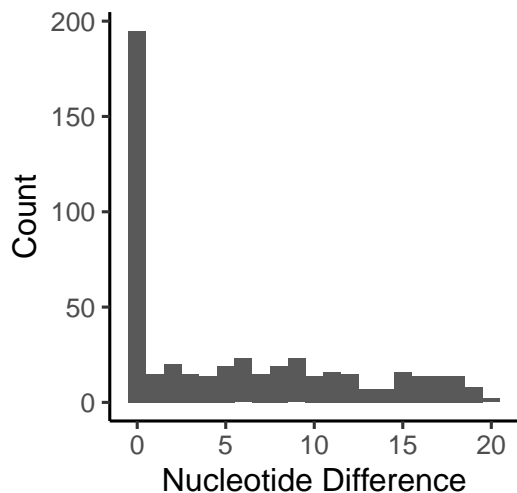
IGHV3-74*03

230 sequences assigned
No exact matches.



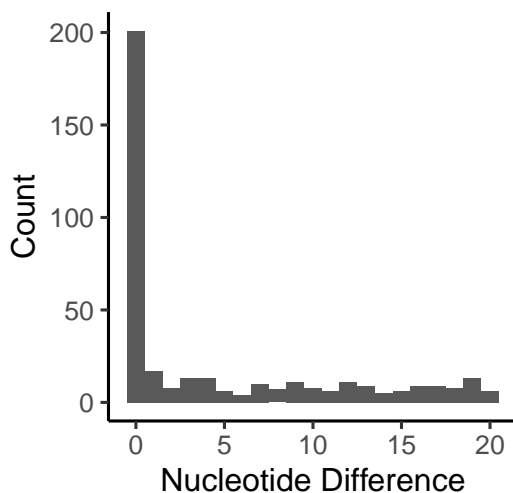
IGHV3-74*01_02

530 sequences assigned
195 (36.8%) exact matches, in which:
195 unique CDR3
6 unique J



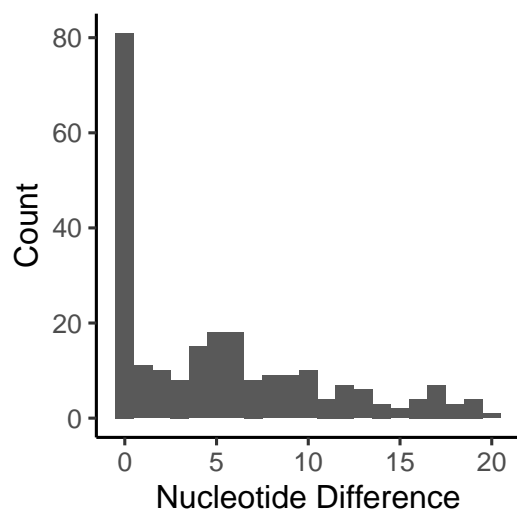
IGHV4-4*02_03

436 sequences assigned
201 (46.1%) exact matches, in which:
198 unique CDR3
6 unique J



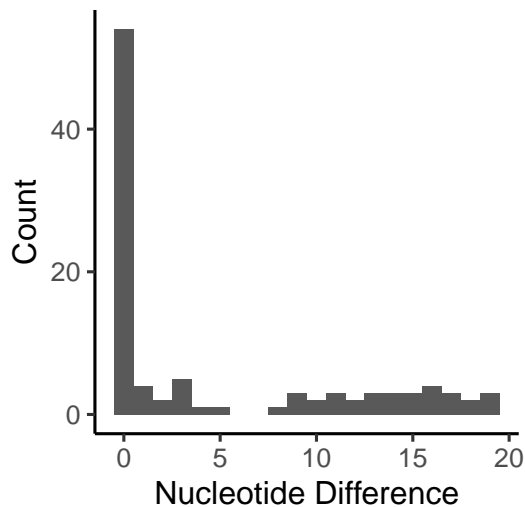
IGHV4-30-4*01

260 sequences assigned
81 (31.2%) exact matches, in which:
81 unique CDR3
5 unique J



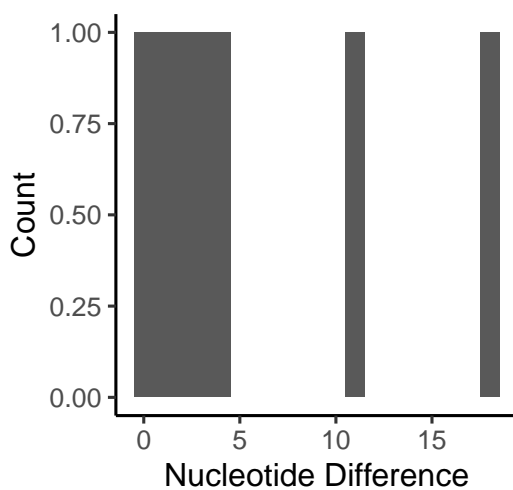
IGHV3-64D*06

115 sequences assigned
54 (47%) exact matches, in which:
54 unique CDR3
4 unique J



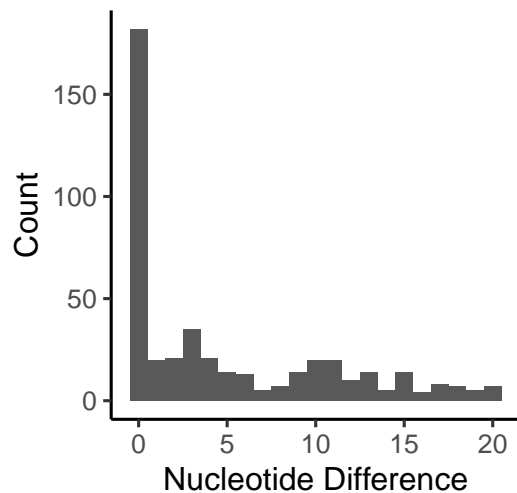
IGHV4-28*01_07

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



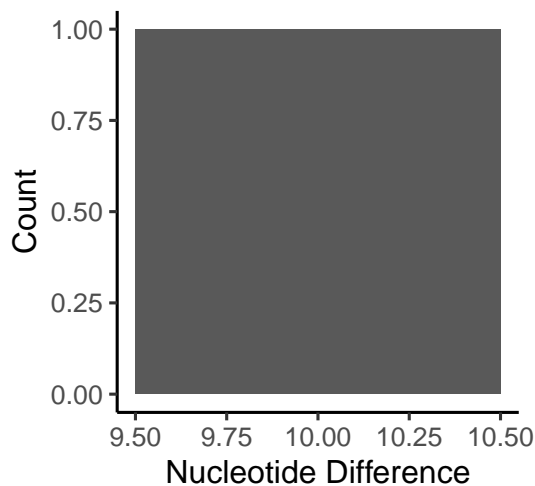
IGHV4-31*02

478 sequences assigned
182 (38.1%) exact matches, in which:
182 unique CDR3
6 unique J



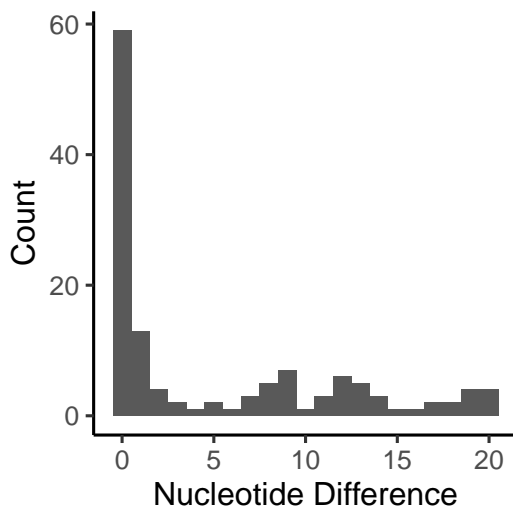
IGHV3-NL1*01

1 sequences assigned
No exact matches.



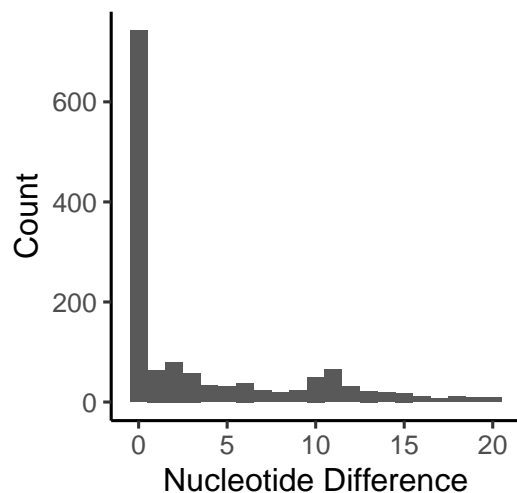
IGHV4-30-2*01

145 sequences assigned
59 (40.7%) exact matches, in which:
56 unique CDR3
6 unique J



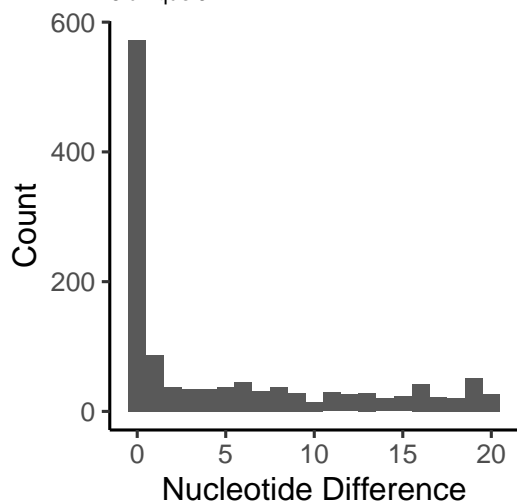
IGHV4-34*01_02

1448 sequences assigned
743 (51.3%) exact matches, in which:
734 unique CDR3
6 unique J



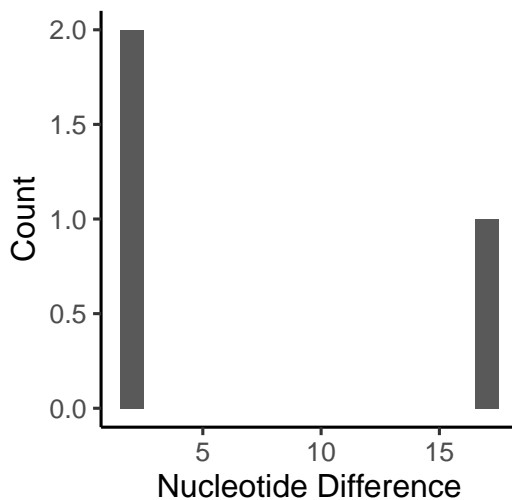
IGHV4–39*02_C258G

1474 sequences assigned
573 (38.9%) exact matches, in which:
560 unique CDR3
6 unique J



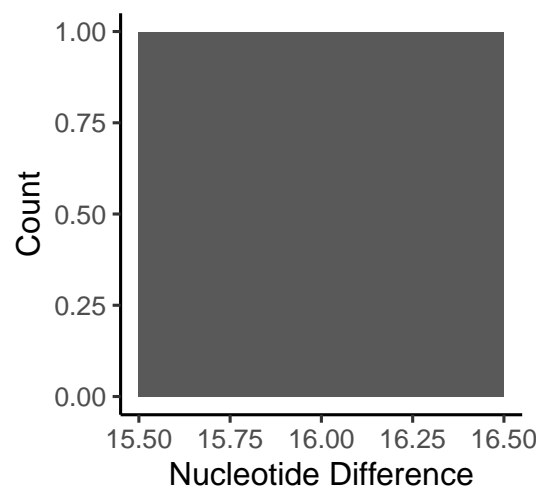
IGHV4–61*01

4 sequences assigned
No exact matches.



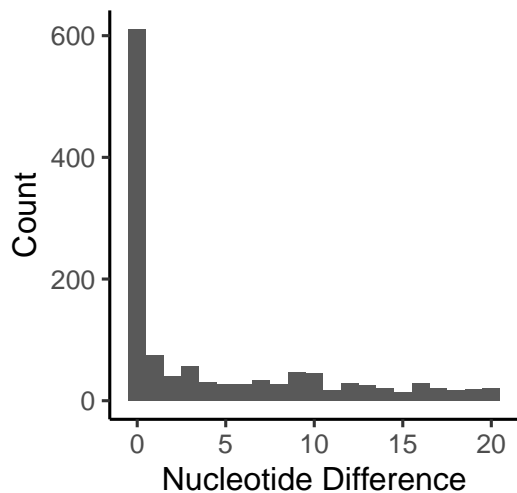
IGHV1/OR15–2*02_03

2 sequences assigned
No exact matches.



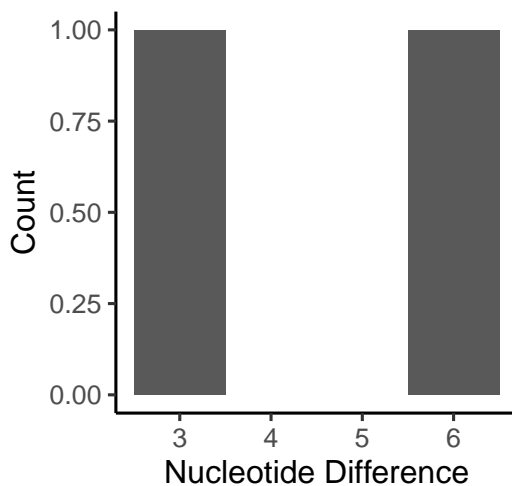
IGHV4–59*08

1390 sequences assigned
611 (44%) exact matches, in which:
603 unique CDR3
6 unique J



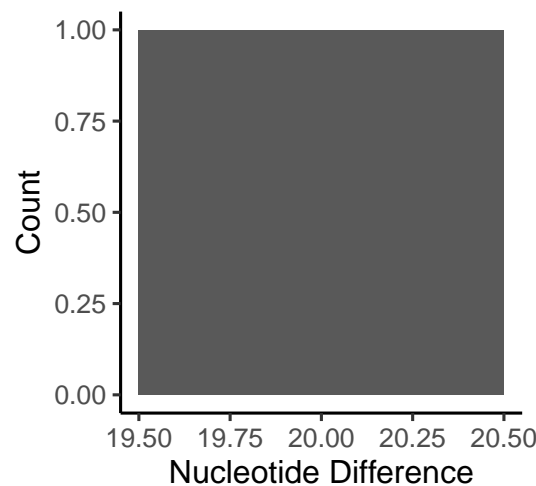
IGHV4–61*05

2 sequences assigned
No exact matches.



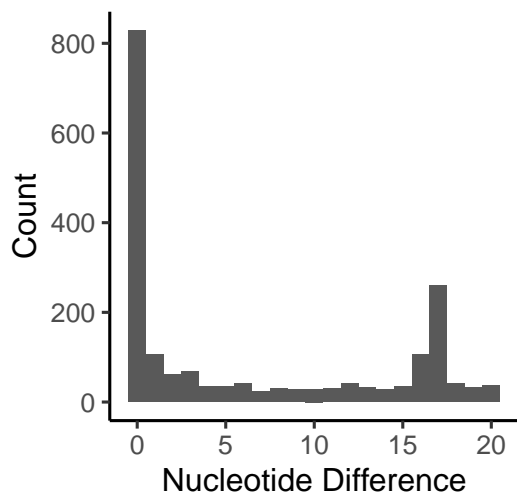
IGHV4/OR15–8*02

3 sequences assigned
No exact matches.



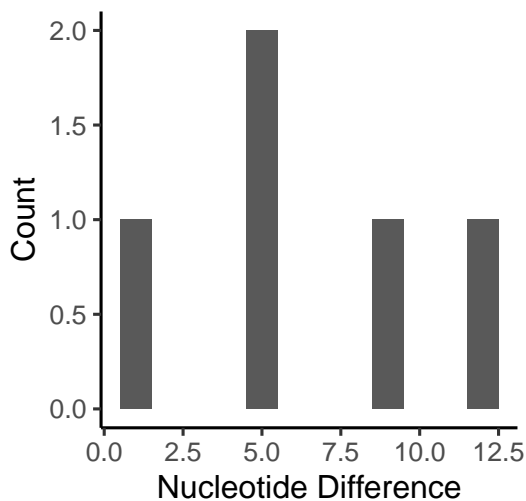
IGHV4–59*02_G88A

2150 sequences assigned
829 (38.6%) exact matches, in which:
821 unique CDR3
6 unique J



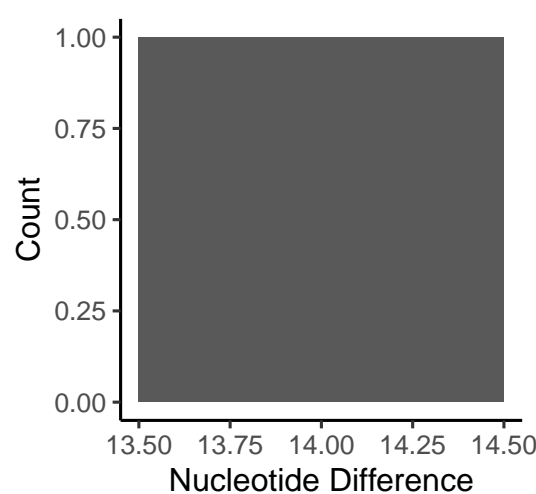
IGHV4–61*08

6 sequences assigned
No exact matches.



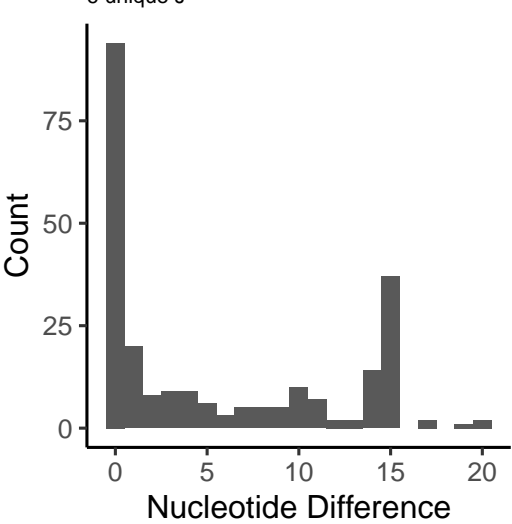
IGHV4/OR15–8*03

1 sequences assigned
No exact matches.



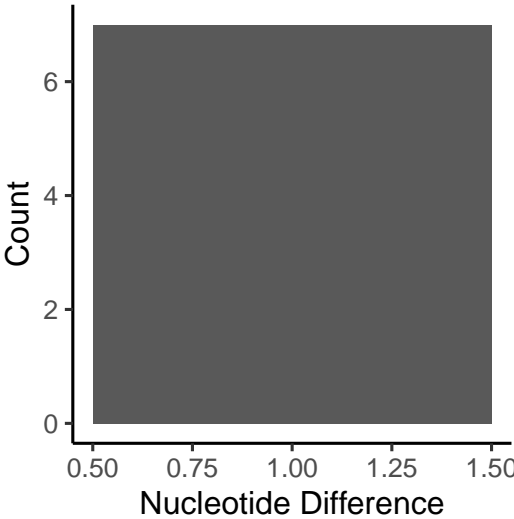
IGHV5-10-1*01_03

276 sequences assigned
94 (34.1%) exact matches, in which:
93 unique CDR3
6 unique J



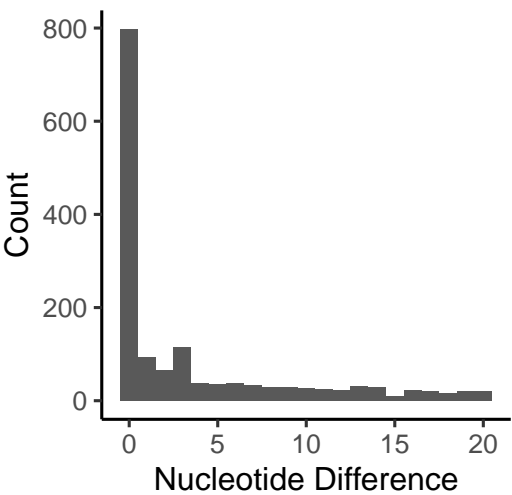
IGHV7-4-1*01

7 sequences assigned
No exact matches.



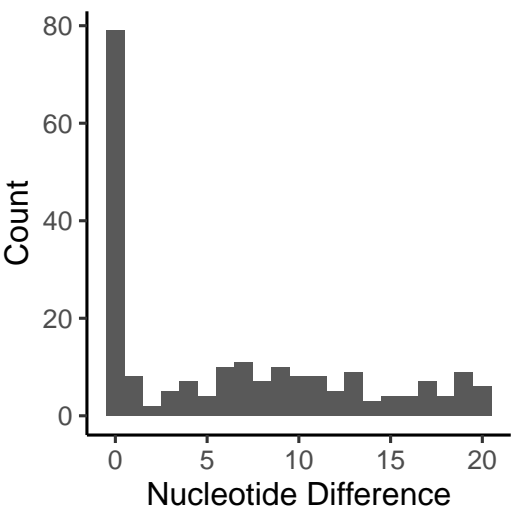
IGHV5-51*07_A128G

1587 sequences assigned
798 (50.3%) exact matches, in which:
792 unique CDR3
6 unique J



IGHV6-1*01_02

226 sequences assigned
79 (35%) exact matches, in which:
79 unique CDR3
5 unique J





Warning – no inferred sequences found.