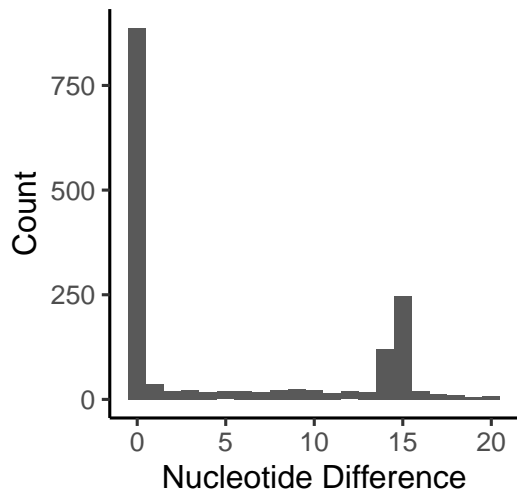


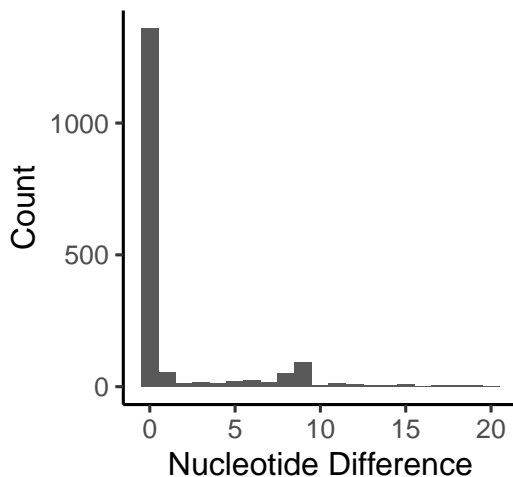
IGHV1-2*02

1638 sequences assigned
888 (54.2%) exact matches, in which:
885 unique CDR3
6 unique J



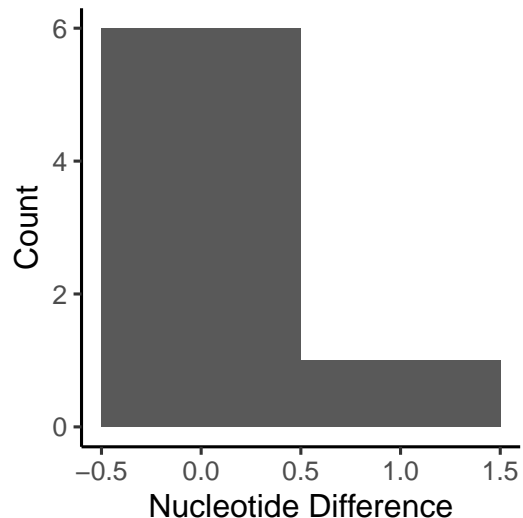
IGHV1-8*01

1754 sequences assigned
1359 (77.5%) exact matches, in which:
1344 unique CDR3
6 unique J



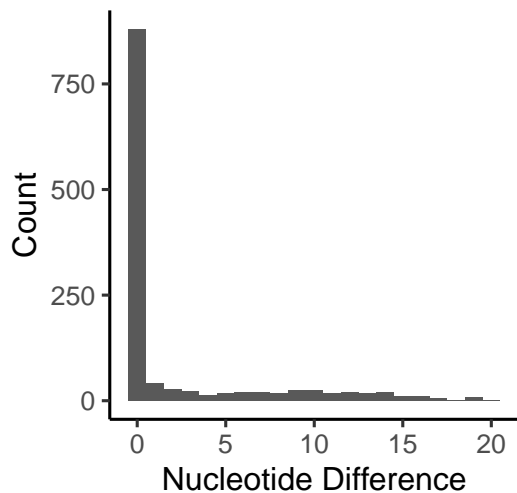
IGHV1-45*02

7 sequences assigned
6 (85.7%) exact matches, in which:
6 unique CDR3
2 unique J



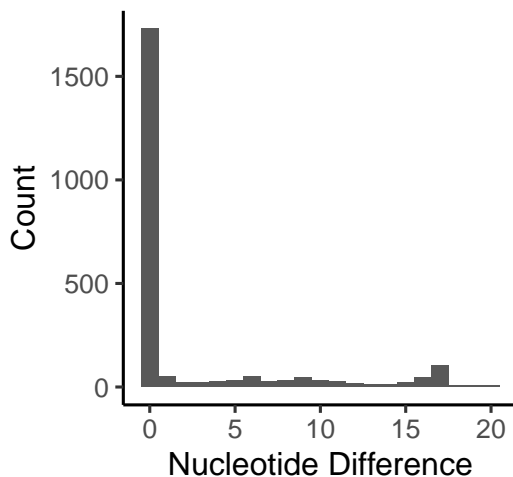
IGHV1-2*06

1248 sequences assigned
880 (70.5%) exact matches, in which:
876 unique CDR3
6 unique J



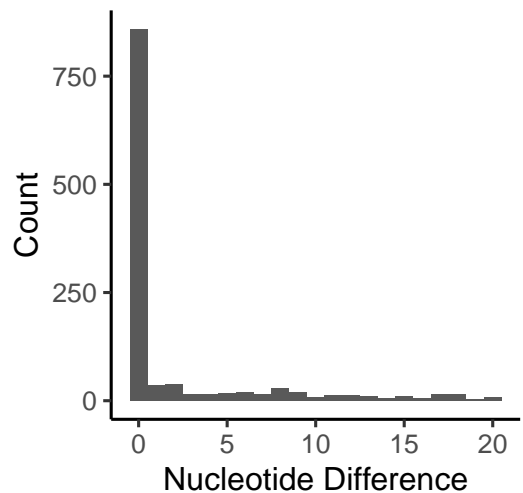
IGHV1-18*01

2365 sequences assigned
1730 (73.2%) exact matches, in which:
1721 unique CDR3
6 unique J



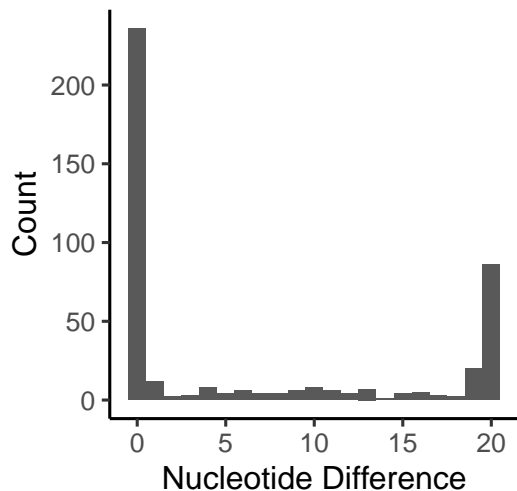
IGHV1-46*01

1212 sequences assigned
859 (70.9%) exact matches, in which:
853 unique CDR3
6 unique J



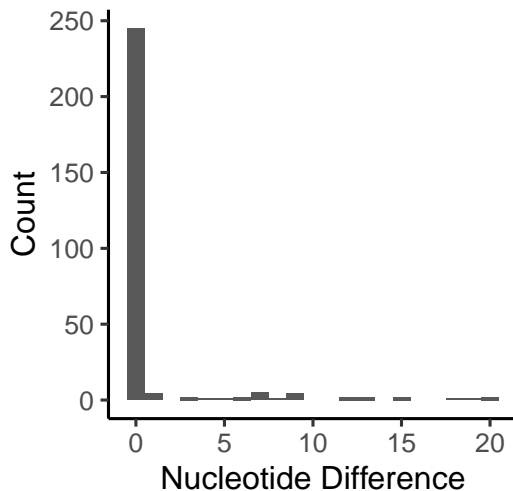
IGHV1-3*01_05

695 sequences assigned
236 (34%) exact matches, in which:
232 unique CDR3
6 unique J



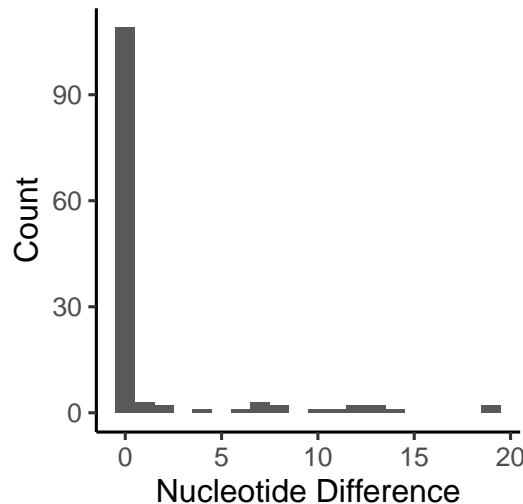
IGHV1-24*01

284 sequences assigned
245 (86.3%) exact matches, in which:
242 unique CDR3
6 unique J



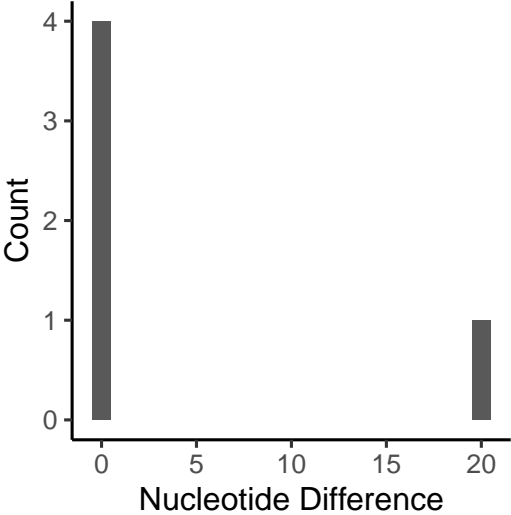
IGHV1-58*01_03

133 sequences assigned
109 (82%) exact matches, in which:
108 unique CDR3
5 unique J



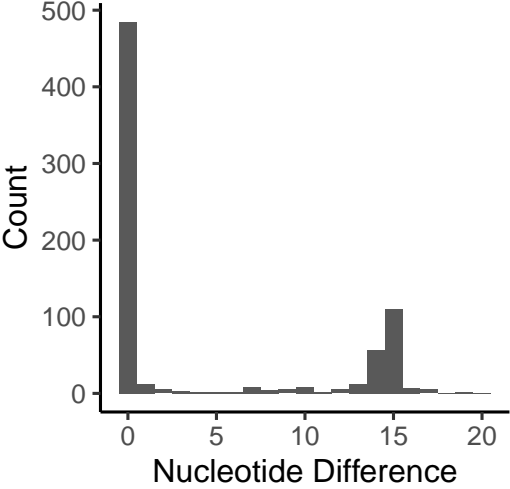
IGHV1-69-2*01

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



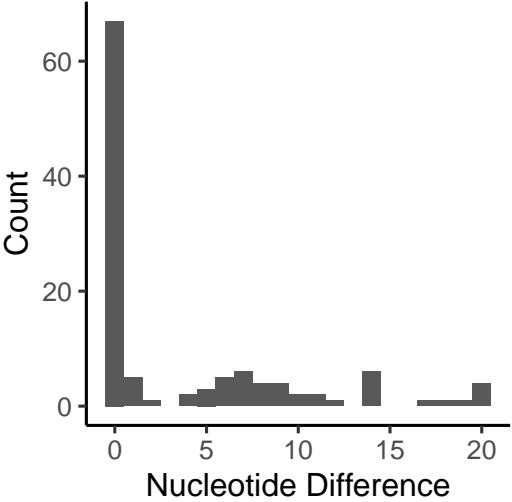
IGHV1-69*06_14

747 sequences assigned
485 (64.9%) exact matches, in which:
485 unique CDR3
6 unique J



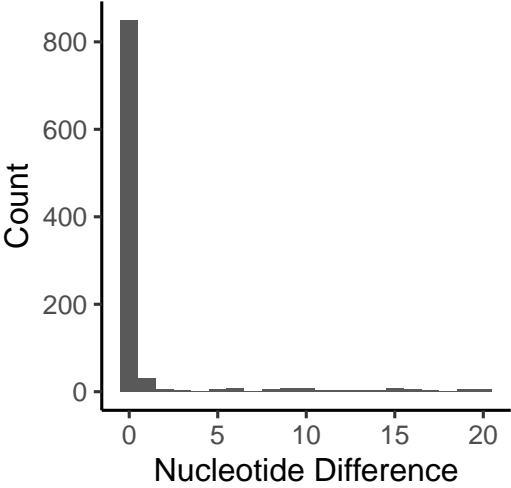
IGHV2-5*02

133 sequences assigned
67 (50.4%) exact matches, in which:
65 unique CDR3
5 unique J



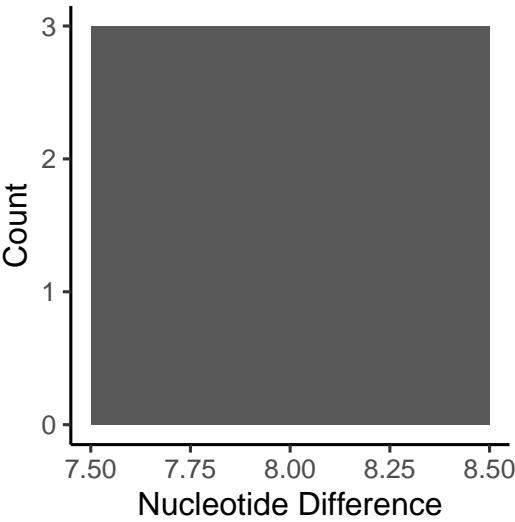
IGHV1-69*01_12_13

992 sequences assigned
850 (85.7%) exact matches, in which:
847 unique CDR3
6 unique J



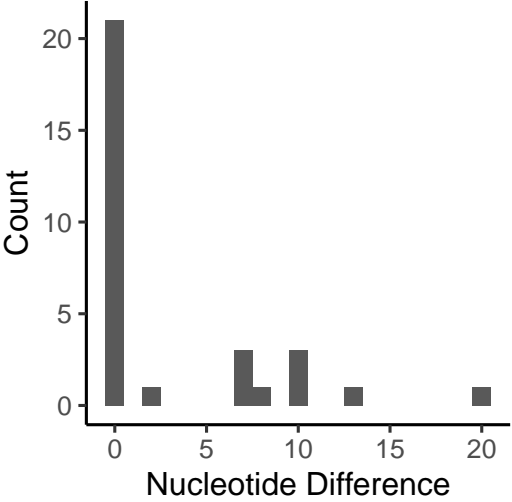
IGHV1-NL1*01

3 sequences assigned
No exact matches.



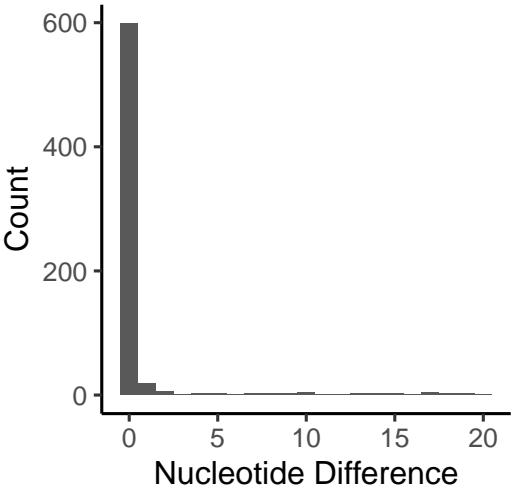
IGHV2-26*01

32 sequences assigned
21 (65.6%) exact matches, in which:
20 unique CDR3
4 unique J



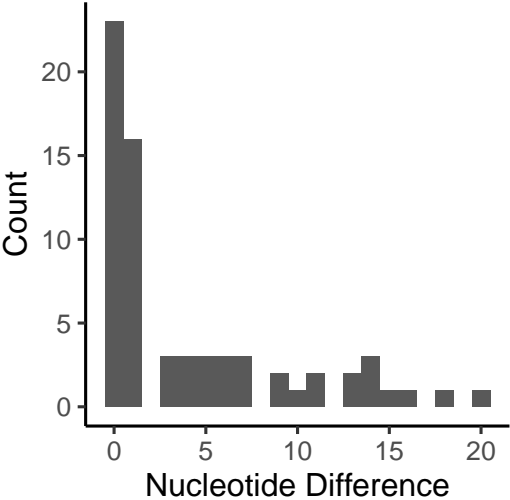
IGHV1-69*04_09

681 sequences assigned
599 (88%) exact matches, in which:
597 unique CDR3
6 unique J



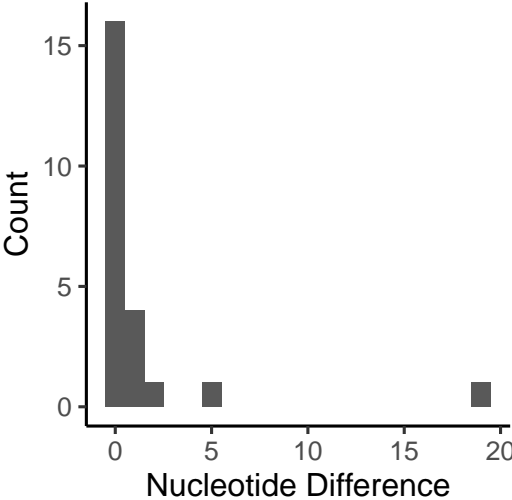
IGHV2-5*01

72 sequences assigned
23 (31.9%) exact matches, in which:
20 unique CDR3
3 unique J



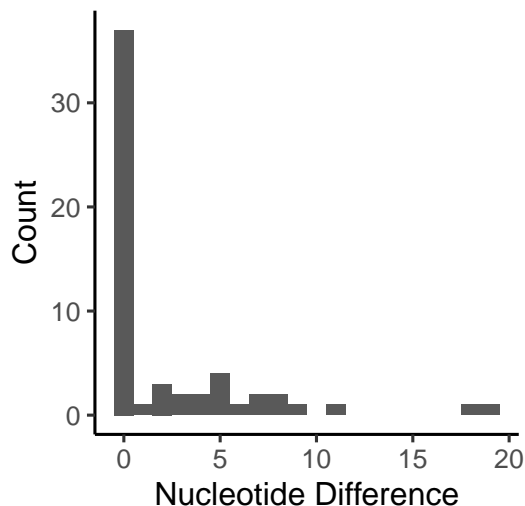
IGHV2-70*01

23 sequences assigned
16 (69.6%) exact matches, in which:
15 unique CDR3
3 unique J



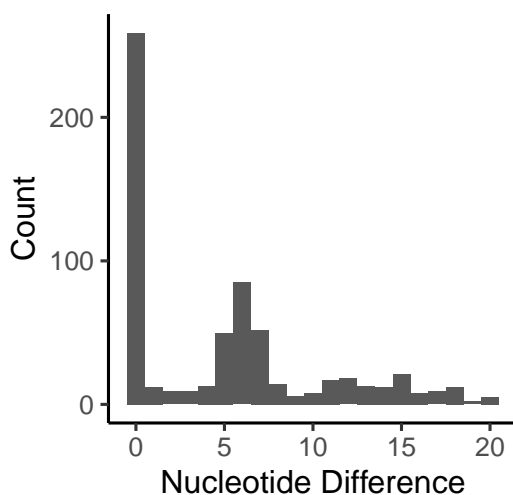
IGHV2-70*11_15

61 sequences assigned
37 (60.7%) exact matches, in which:
36 unique CDR3
5 unique J



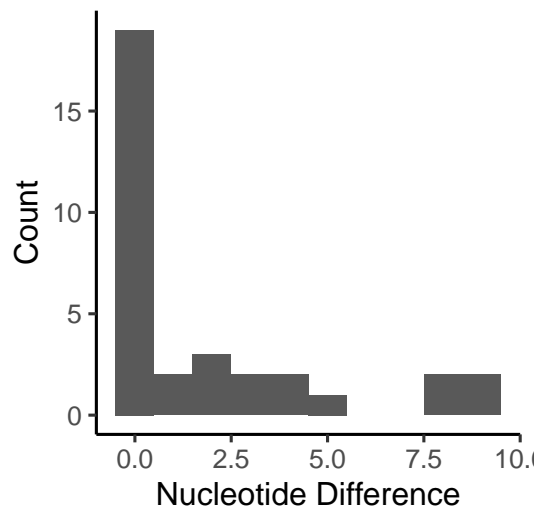
IGHV3-11*01

675 sequences assigned
259 (38.4%) exact matches, in which:
208 unique CDR3
6 unique J



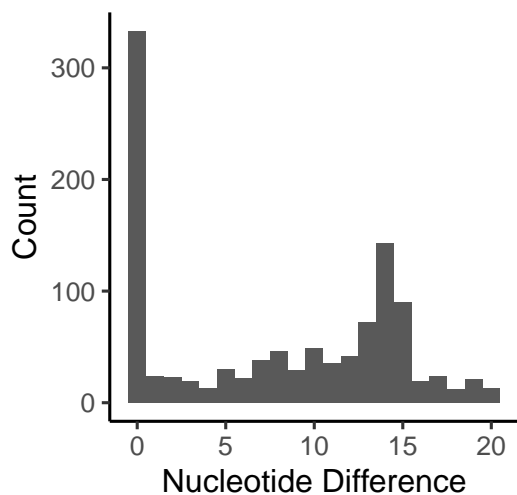
IGHV3-20*01_02

39 sequences assigned
19 (48.7%) exact matches, in which:
18 unique CDR3
4 unique J



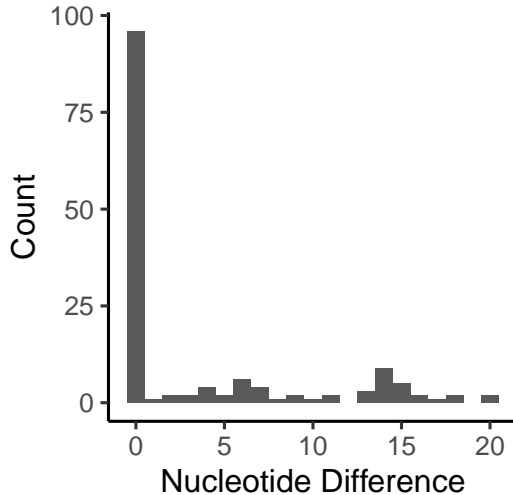
IGHV3-7*01

1155 sequences assigned
333 (28.8%) exact matches, in which:
279 unique CDR3
6 unique J



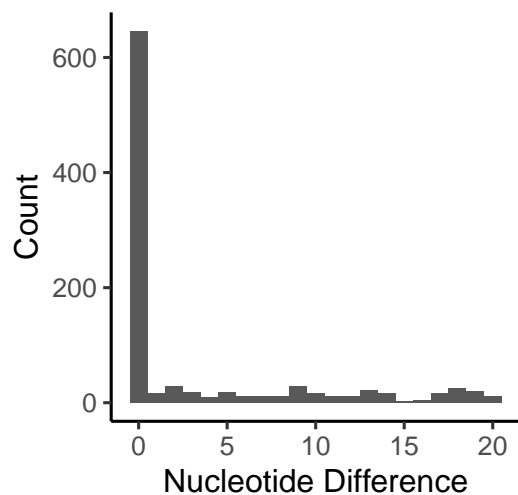
IGHV3-13*01

154 sequences assigned
96 (62.3%) exact matches, in which:
85 unique CDR3
5 unique J



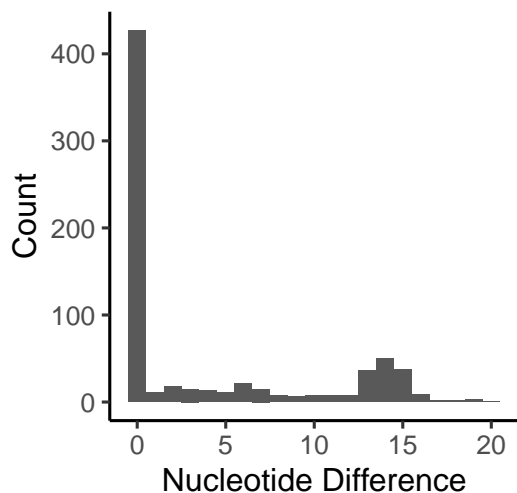
IGHV3-21*01_02

1551 sequences assigned
646 (41.7%) exact matches, in which:
538 unique CDR3
6 unique J



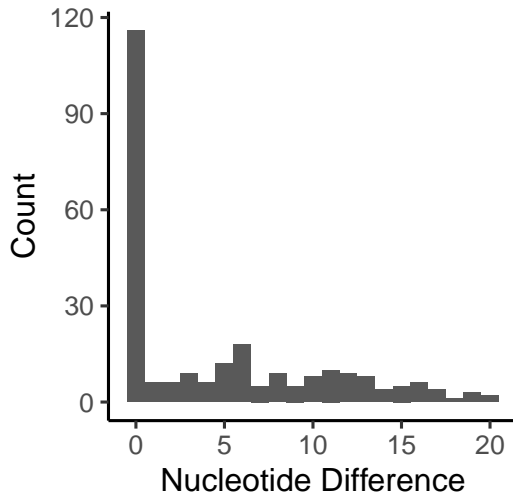
IGHV3-9*01

721 sequences assigned
427 (59.2%) exact matches, in which:
374 unique CDR3
6 unique J



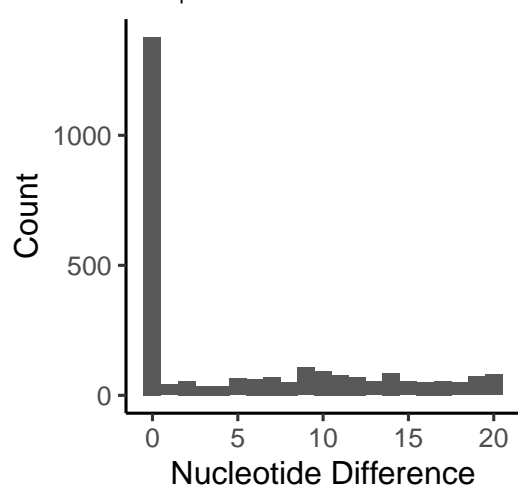
IGHV3-15*01_02

272 sequences assigned
116 (42.6%) exact matches, in which:
95 unique CDR3
4 unique J



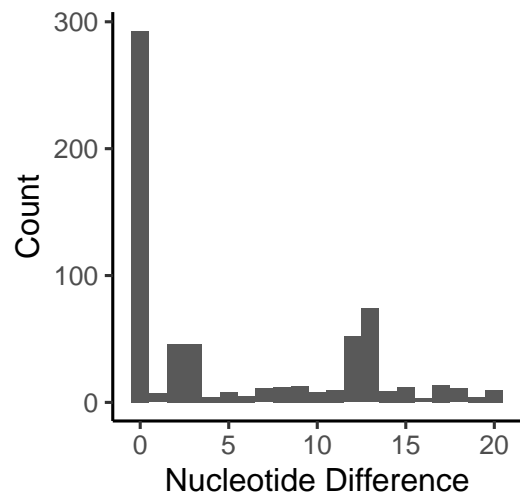
IGHV3-23*01_04

3433 sequences assigned
1378 (40.1%) exact matches, in which:
1186 unique CDR3
6 unique J



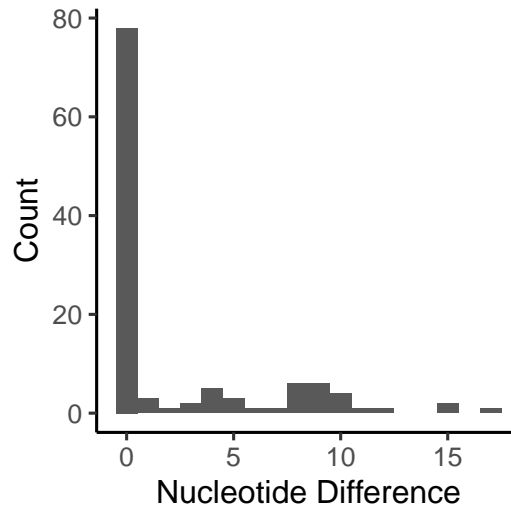
IGHV3-30-3*01

783 sequences assigned
293 (37.4%) exact matches, in which:
249 unique CDR3
6 unique J



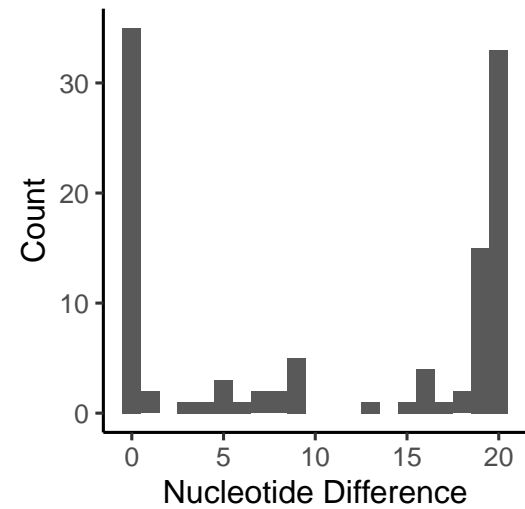
IGHV3-43*02

118 sequences assigned
78 (66.1%) exact matches, in which:
67 unique CDR3
4 unique J



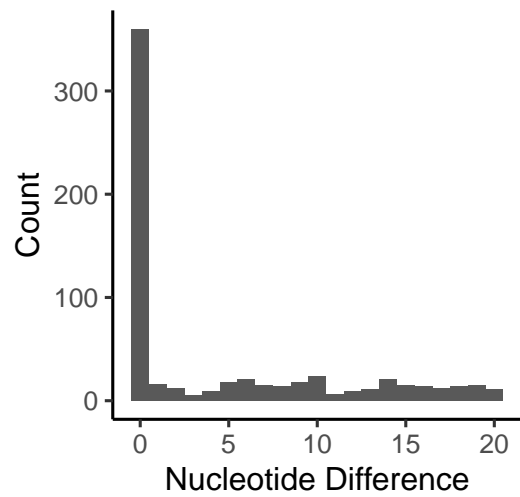
IGHV3-49*04

223 sequences assigned
35 (15.7%) exact matches, in which:
29 unique CDR3
4 unique J



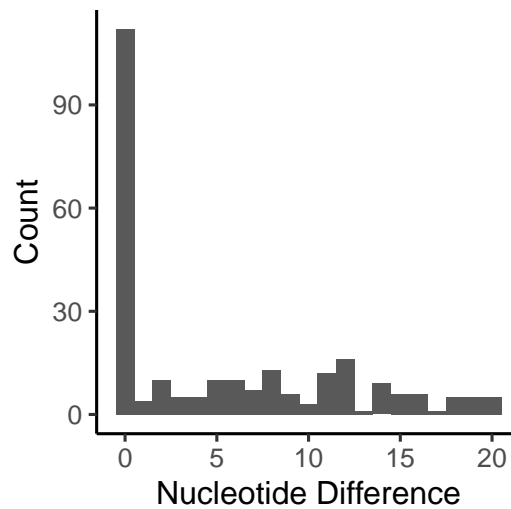
IGHV3-33*01

1161 sequences assigned
360 (31%) exact matches, in which:
303 unique CDR3
6 unique J



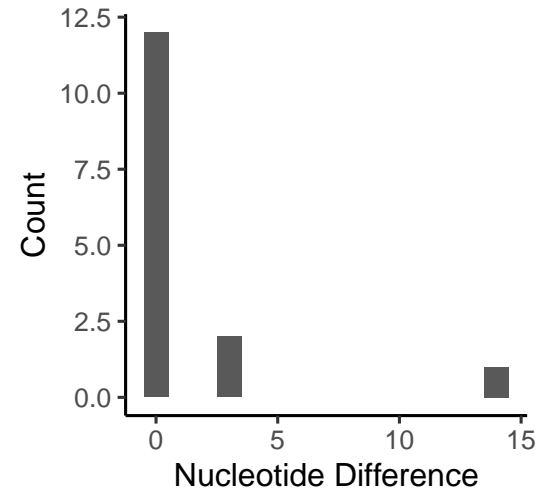
IGHV3-48*02

280 sequences assigned
112 (40%) exact matches, in which:
96 unique CDR3
6 unique J



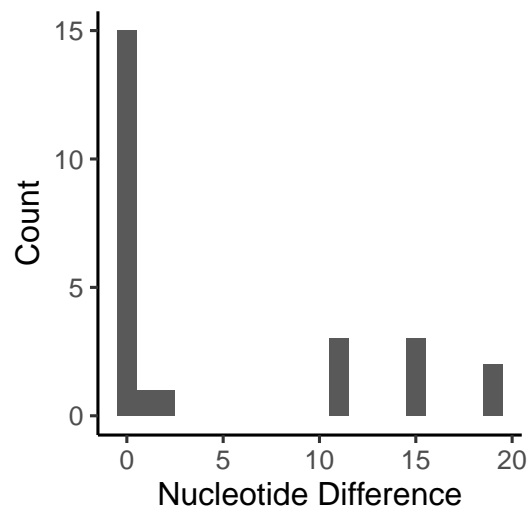
IGHV3-49*03_05

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



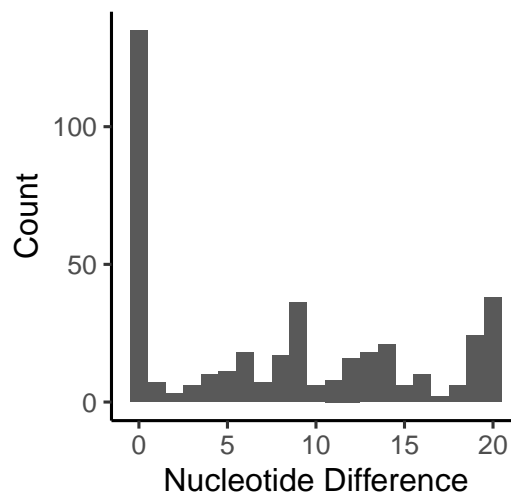
IGHV3-43*01

25 sequences assigned
15 (60%) exact matches, in which:
12 unique CDR3
3 unique J



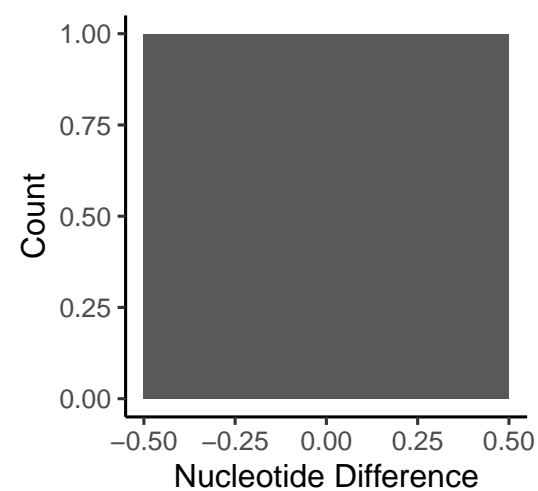
IGHV3-48*03

438 sequences assigned
135 (30.8%) exact matches, in which:
109 unique CDR3
5 unique J



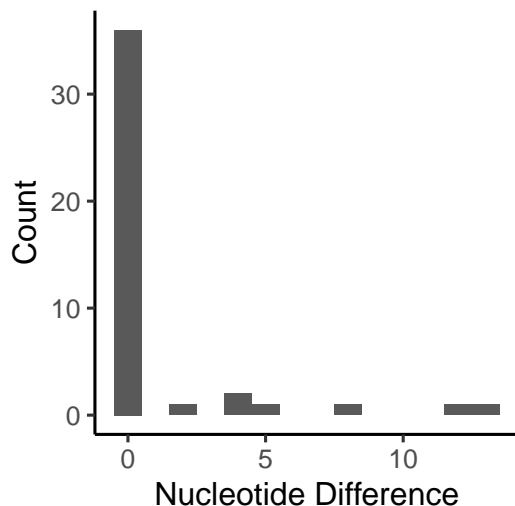
IGHV3-52*01_03

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



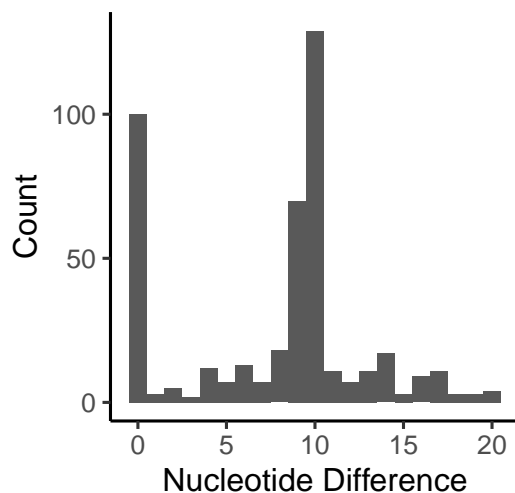
IGHV3-53*04

46 sequences assigned
36 (78.3%) exact matches, in which:
32 unique CDR3
5 unique J



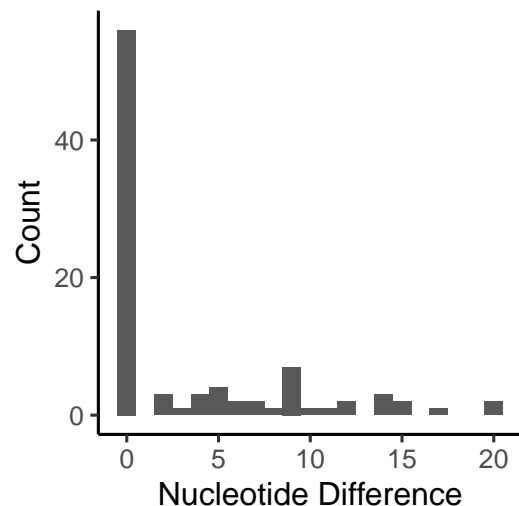
IGHV3-66*01

492 sequences assigned
100 (20.3%) exact matches, in which:
85 unique CDR3
4 unique J



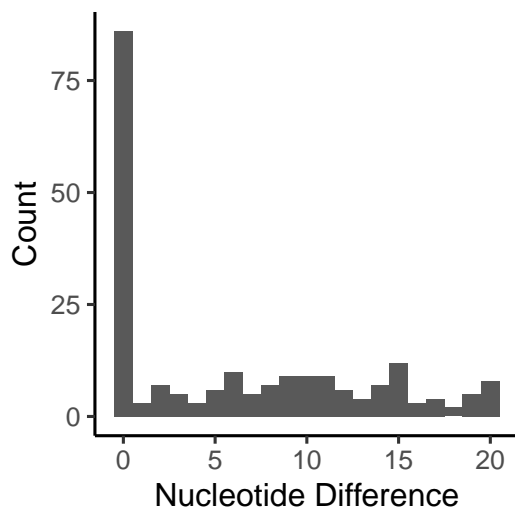
IGHV3-73*01_02

94 sequences assigned
56 (59.6%) exact matches, in which:
50 unique CDR3
5 unique J



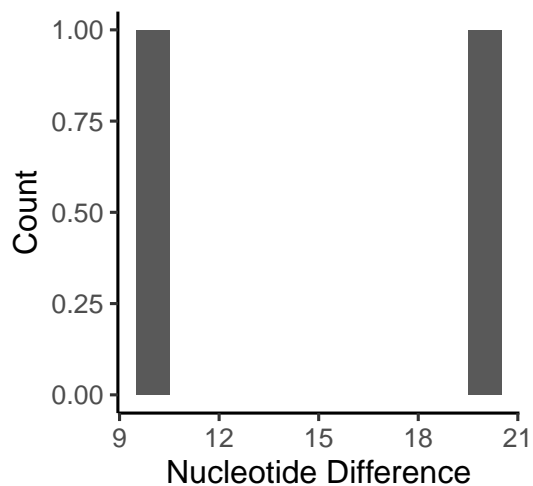
IGHV3-53*01_02

535 sequences assigned
86 (16.1%) exact matches, in which:
76 unique CDR3
5 unique J



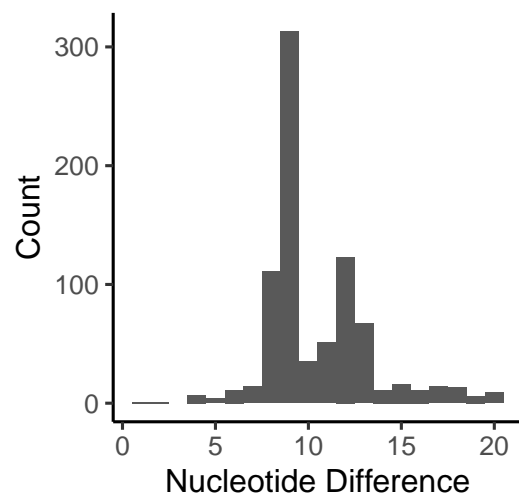
IGHV3-69-1*01

2 sequences assigned
No exact matches.



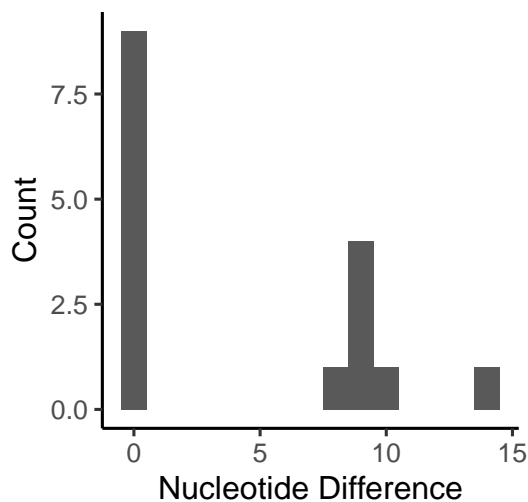
IGHV3-74*03

846 sequences assigned
No exact matches.



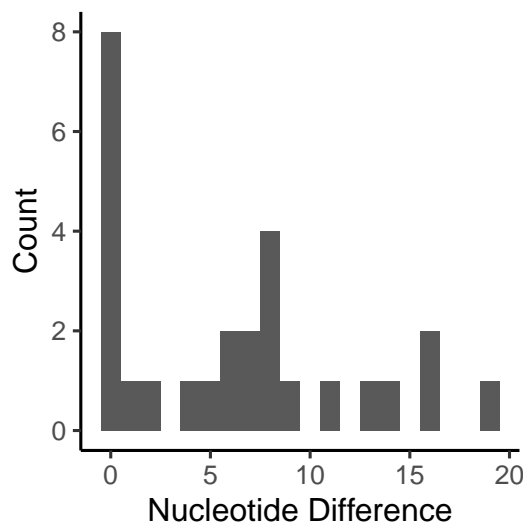
IGHV3-64*02_07

16 sequences assigned
9 (56.2%) exact matches, in which:
7 unique CDR3
3 unique J



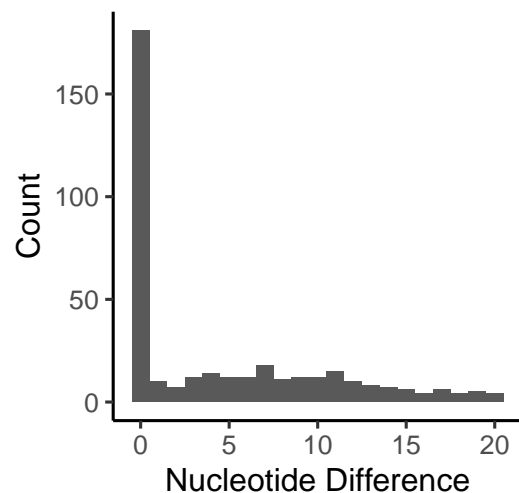
IGHV3-72*01

42 sequences assigned
8 (19%) exact matches, in which:
7 unique CDR3
4 unique J



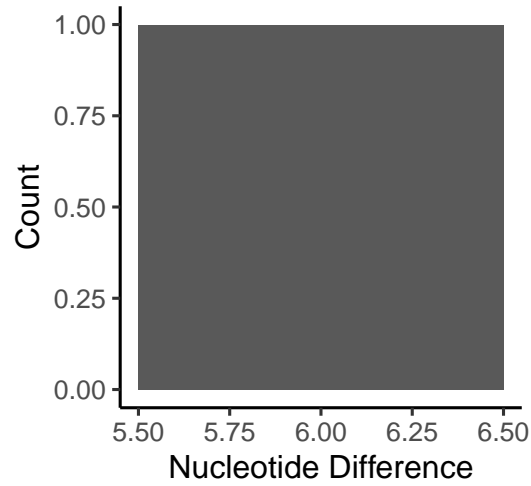
IGHV3-74*01_02

379 sequences assigned
181 (47.8%) exact matches, in which:
157 unique CDR3
5 unique J



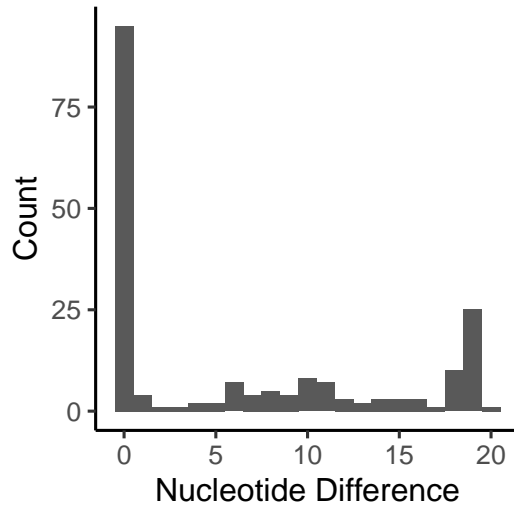
IGHV3-43D*03

1 sequences assigned
No exact matches.



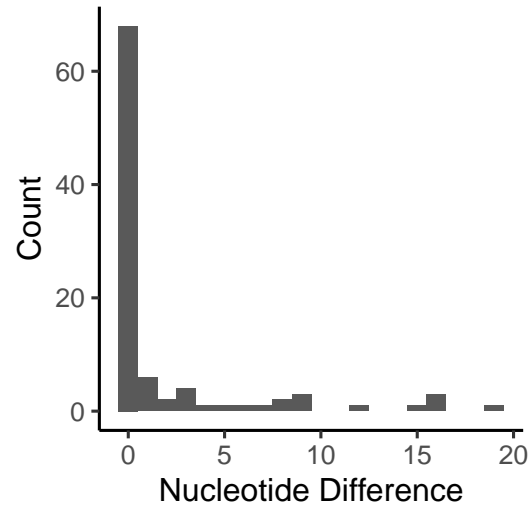
IGHV4-4*02_03

213 sequences assigned
95 (44.6%) exact matches, in which:
93 unique CDR3
5 unique J



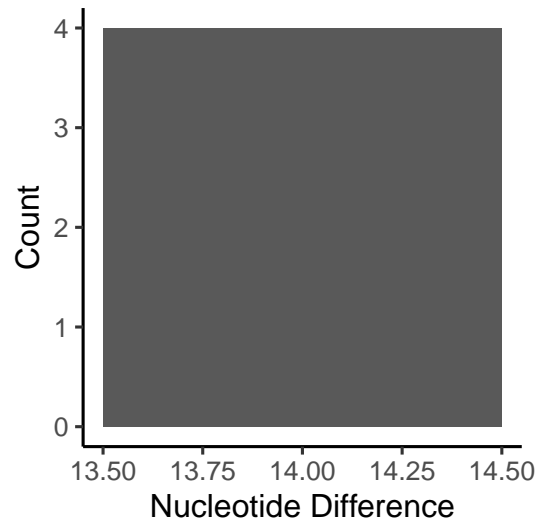
IGHV4-30-4*01

127 sequences assigned
68 (53.5%) exact matches, in which:
66 unique CDR3
5 unique J



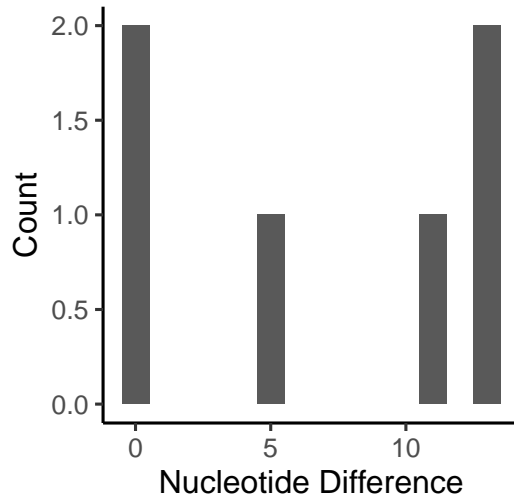
IGHV3-64D*06

6 sequences assigned
No exact matches.



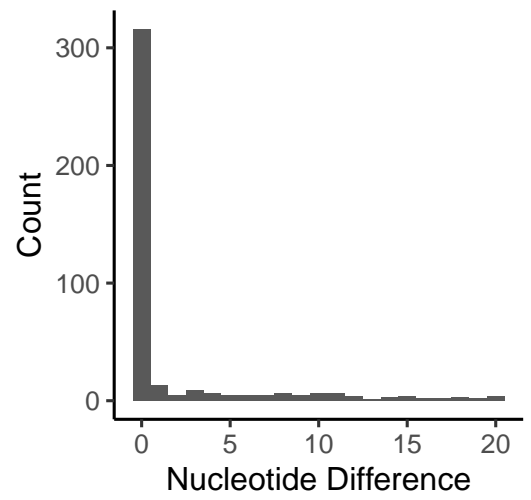
IGHV4-28*01_07

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
2 unique J



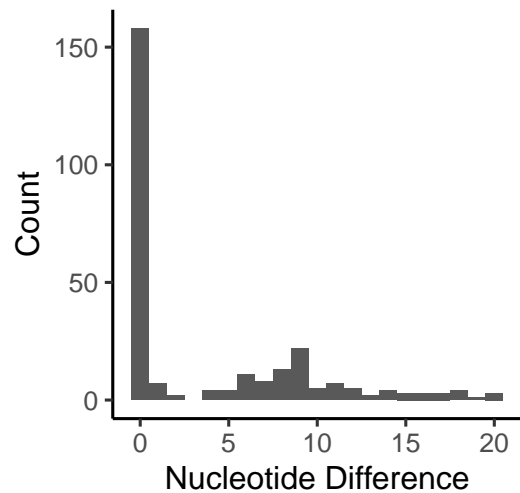
IGHV4-31*02

454 sequences assigned
316 (69.6%) exact matches, in which:
309 unique CDR3
6 unique J



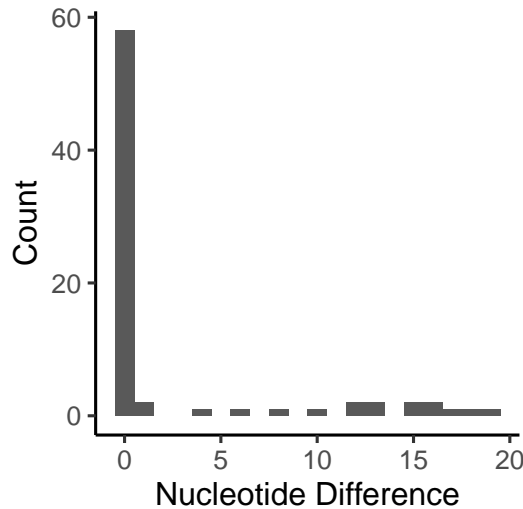
IGHV4-4*07

278 sequences assigned
158 (56.8%) exact matches, in which:
156 unique CDR3
6 unique J



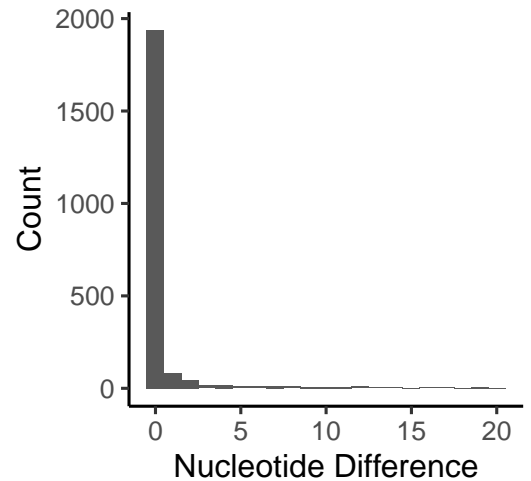
IGHV4-30-2*01

84 sequences assigned
58 (69%) exact matches, in which:
58 unique CDR3
4 unique J



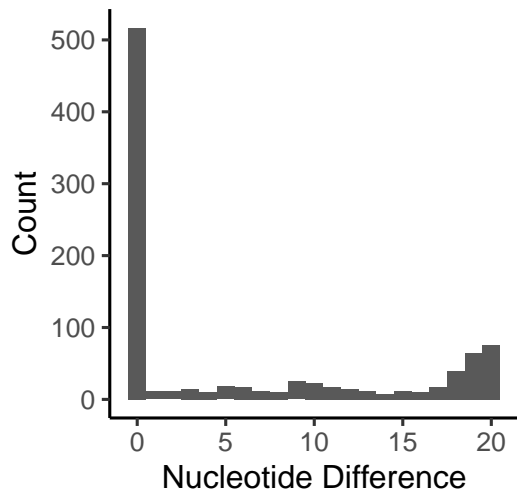
IGHV4-34*01_02

2225 sequences assigned
1938 (87.1%) exact matches, in which:
1911 unique CDR3
6 unique J



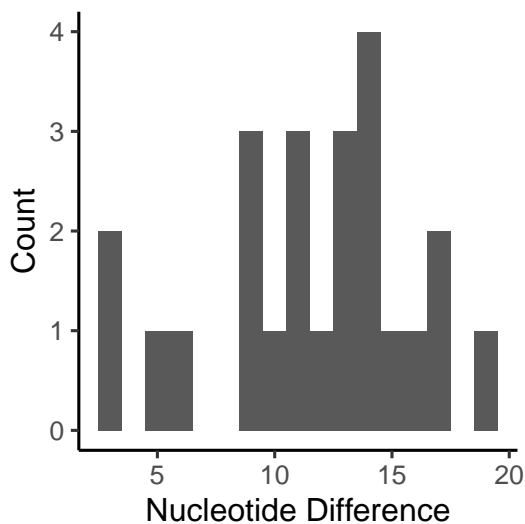
IGHV4-39*02_C258G

1162 sequences assigned
517 (44.5%) exact matches, in which:
509 unique CDR3
6 unique J



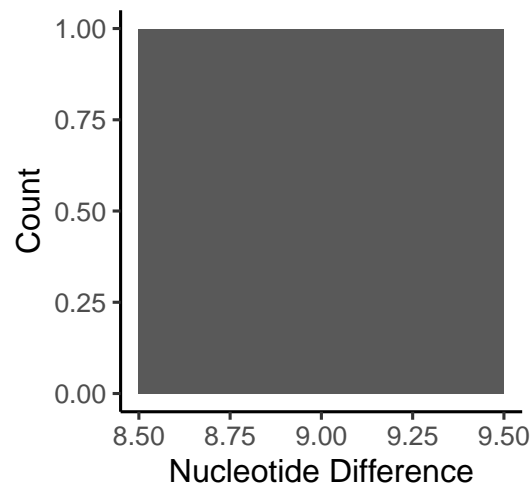
IGHV4-59*11

34 sequences assigned
No exact matches.



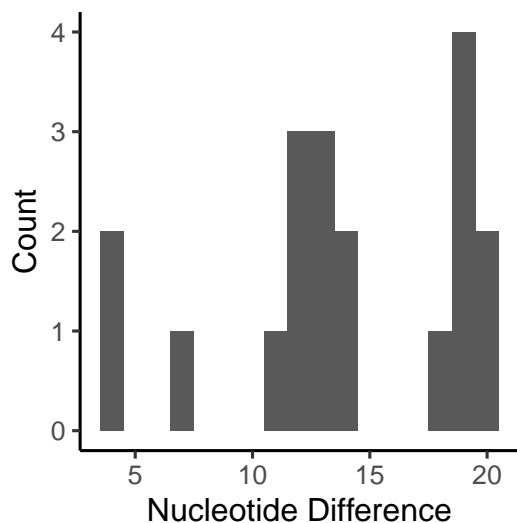
IGHV5-10-1*01_03

2 sequences assigned
No exact matches.



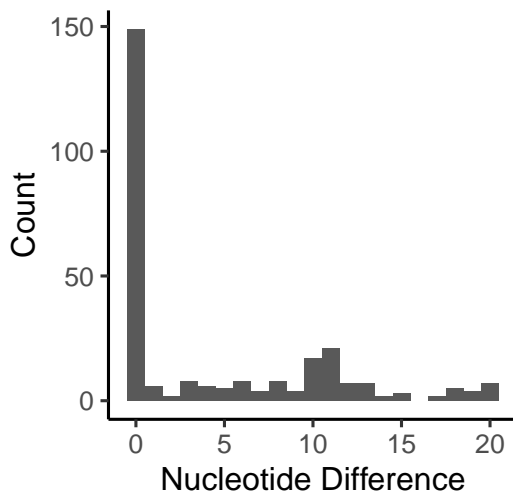
IGHV4-59*02

31 sequences assigned
No exact matches.



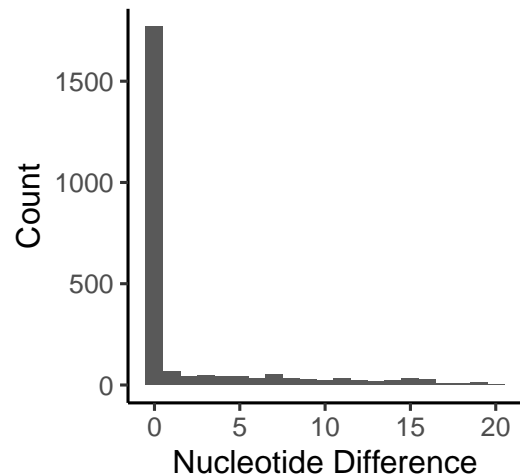
IGHV4-61*01

299 sequences assigned
149 (49.8%) exact matches, in which:
148 unique CDR3
6 unique J



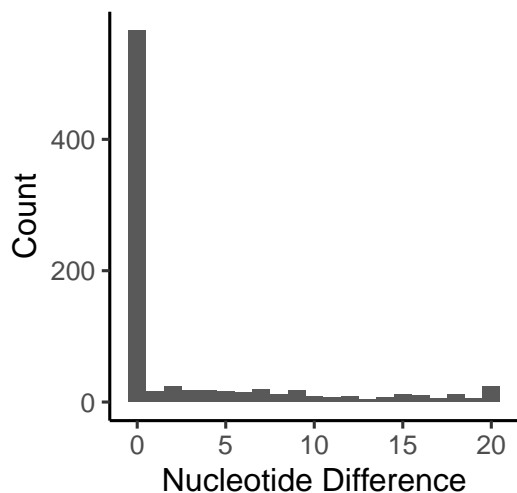
IGHV5-51*07_A128G

2404 sequences assigned
1769 (73.6%) exact matches, in which:
1711 unique CDR3
6 unique J



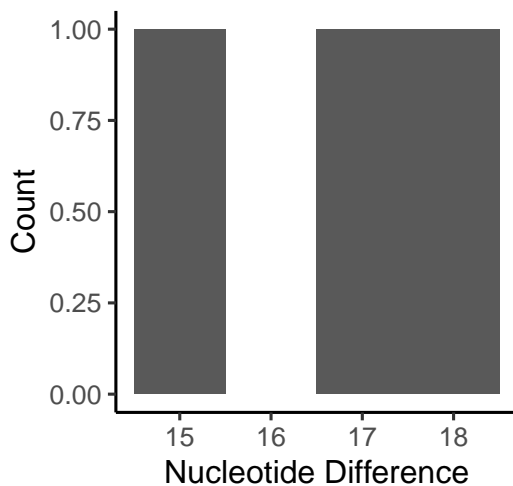
IGHV4-59*01_07

1306 sequences assigned
566 (43.3%) exact matches, in which:
562 unique CDR3
6 unique J



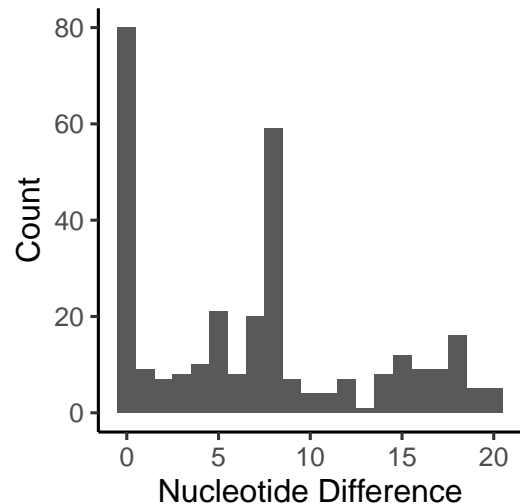
IGHV4/OR15-8*01

3 sequences assigned
No exact matches.



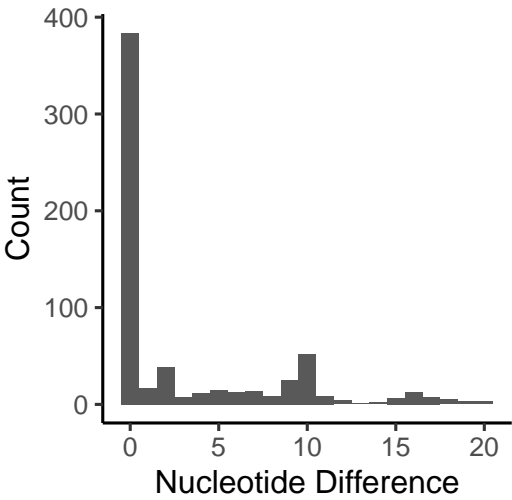
IGHV6-1*01_02

855 sequences assigned
80 (9.4%) exact matches, in which:
80 unique CDR3
6 unique J



IGHV7-4-1*02

650 sequences assigned
384 (59.1%) exact matches, in which:
382 unique CDR3
6 unique J





Warning – no inferred sequences found.