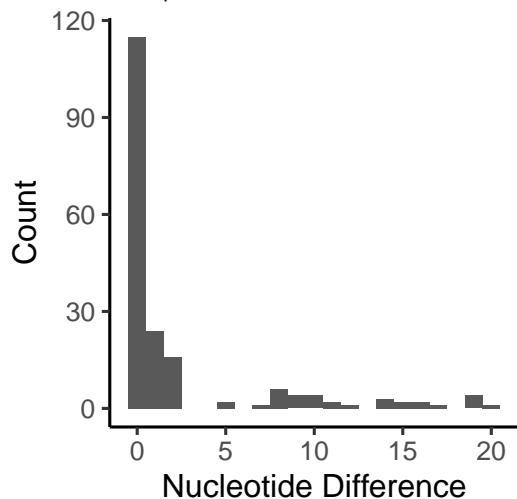


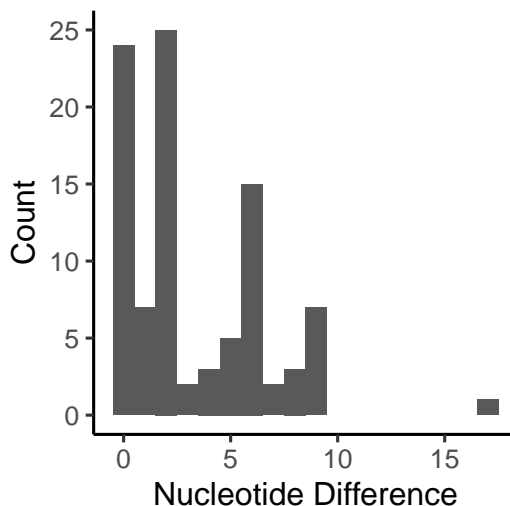
IGHV1-2*04

189 sequences assigned
115 (60.8%) exact matches, in which:
107 unique CDR3
5 unique J



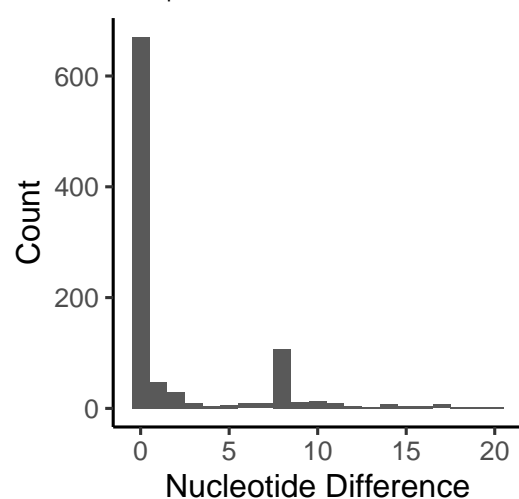
IGHV1-3*01_05_A291G_

95 sequences assigned
24 (25.3%) exact matches, in which:
24 unique CDR3
5 unique J



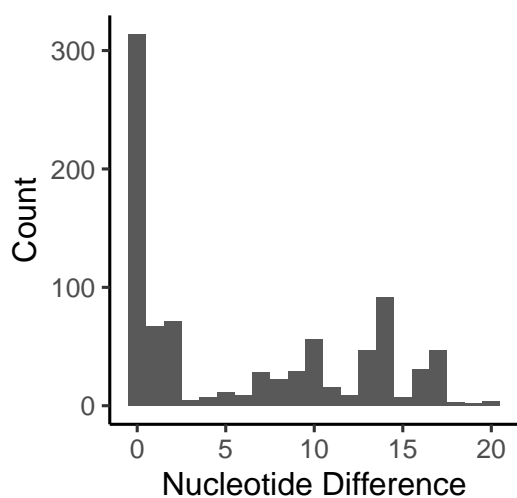
IGHV1-18*04

1038 sequences assigned
671 (64.6%) exact matches, in which:
657 unique CDR3
6 unique J



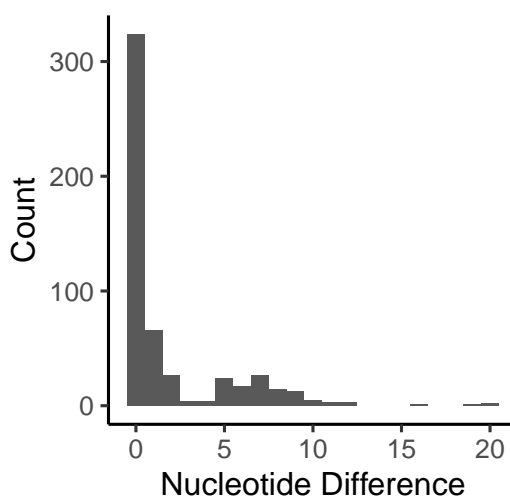
IGHV1-2*06

1080 sequences assigned
314 (29.1%) exact matches, in which:
304 unique CDR3
6 unique J



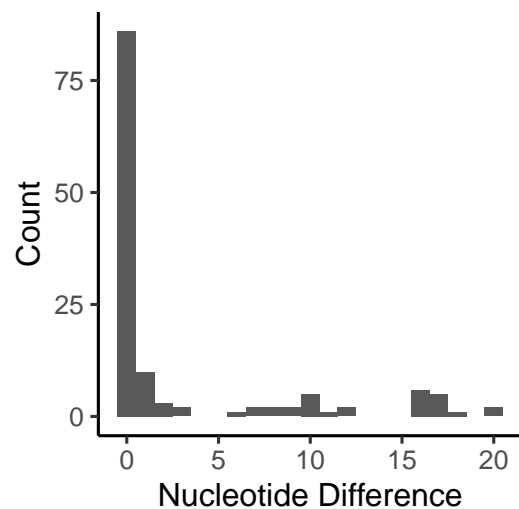
IGHV1-8*01

540 sequences assigned
324 (60%) exact matches, in which:
317 unique CDR3
6 unique J



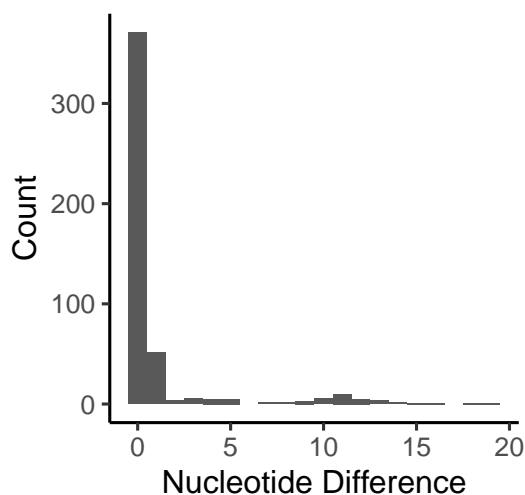
IGHV1-24*01

133 sequences assigned
86 (64.7%) exact matches, in which:
81 unique CDR3
6 unique J



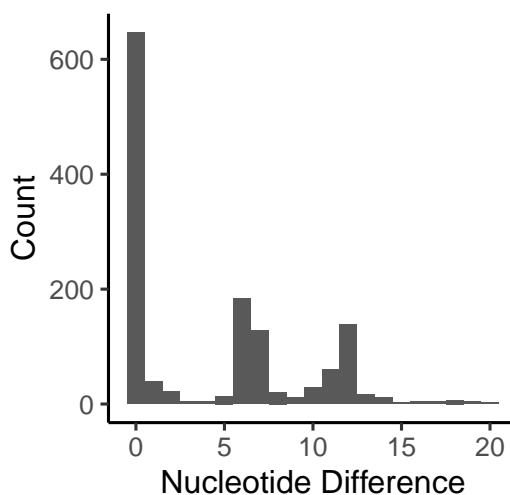
IGHV1-3*01_05

493 sequences assigned
371 (75.3%) exact matches, in which:
343 unique CDR3
6 unique J



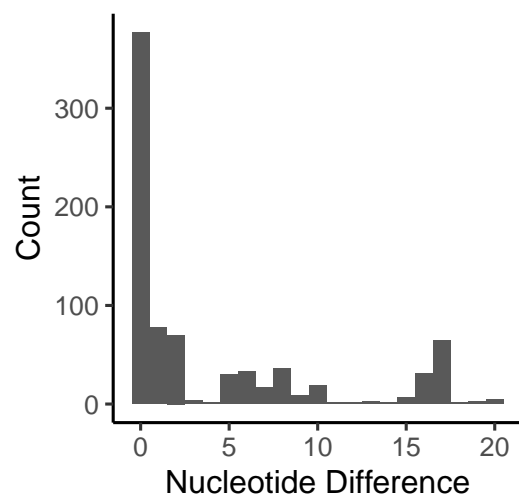
IGHV1-18*01

1375 sequences assigned
647 (47.1%) exact matches, in which:
635 unique CDR3
6 unique J



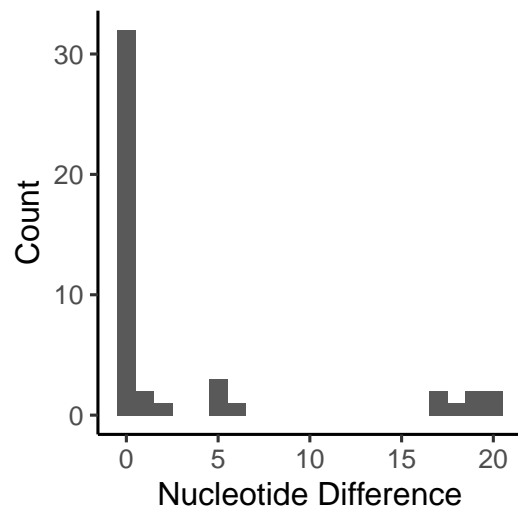
IGHV1-46*01

820 sequences assigned
377 (46%) exact matches, in which:
368 unique CDR3
6 unique J



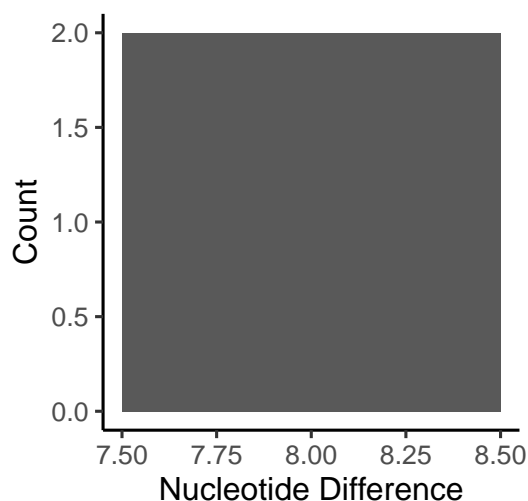
IGHV1-58*02

50 sequences assigned
32 (64%) exact matches, in which:
32 unique CDR3
5 unique J



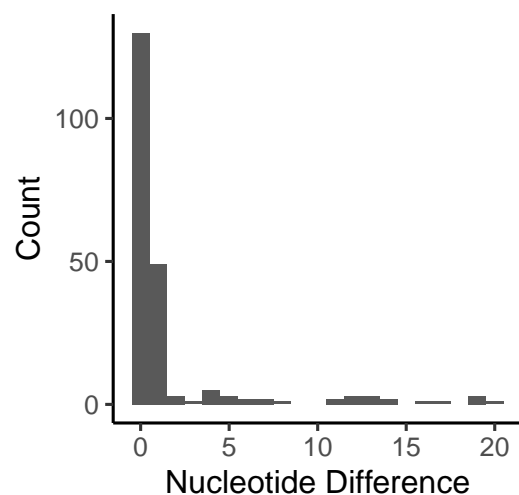
IGHV1-NL1*01

2 sequences assigned
No exact matches.



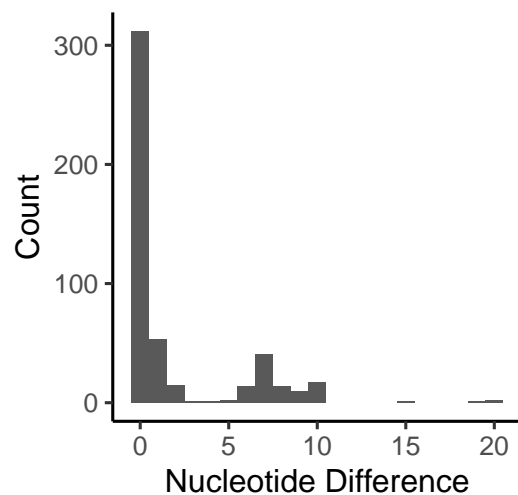
IGHV2-70*11_15

245 sequences assigned
130 (53.1%) exact matches, in which:
121 unique CDR3
6 unique J



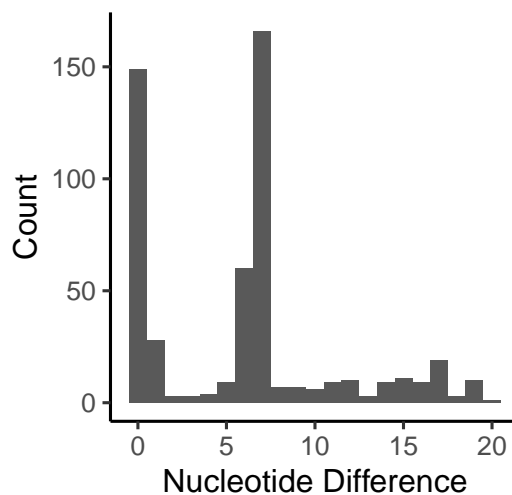
IGHV1-69*04_09

721 sequences assigned
312 (43.3%) exact matches, in which:
305 unique CDR3
6 unique J



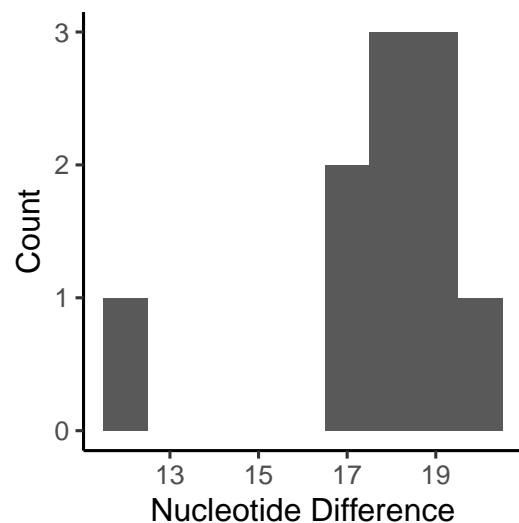
IGHV2-5*02

555 sequences assigned
149 (26.8%) exact matches, in which:
144 unique CDR3
6 unique J



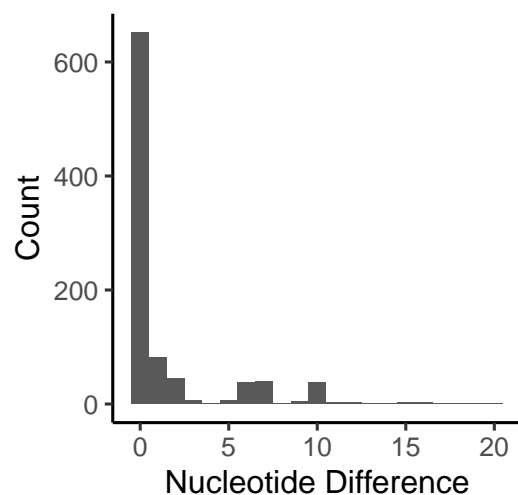
IGHV2-70D*04

11 sequences assigned
No exact matches.



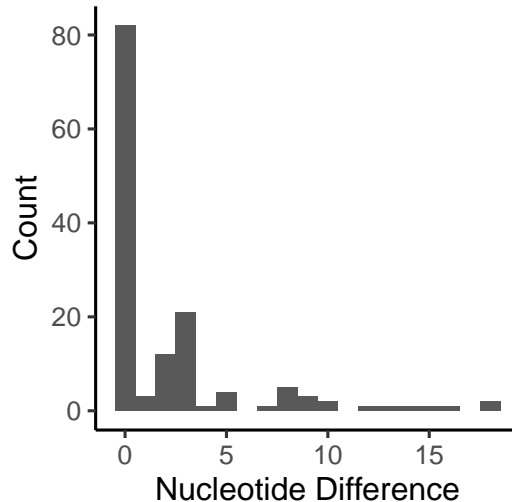
IGHV1-69*04_09_A244C

974 sequences assigned
652 (66.9%) exact matches, in which:
632 unique CDR3
6 unique J



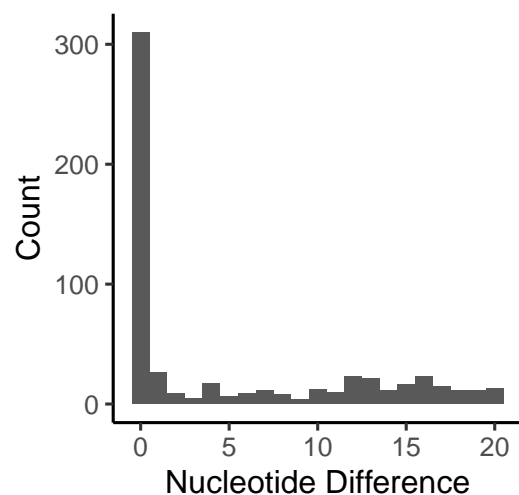
IGHV2-26*01

146 sequences assigned
82 (56.2%) exact matches, in which:
77 unique CDR3
5 unique J



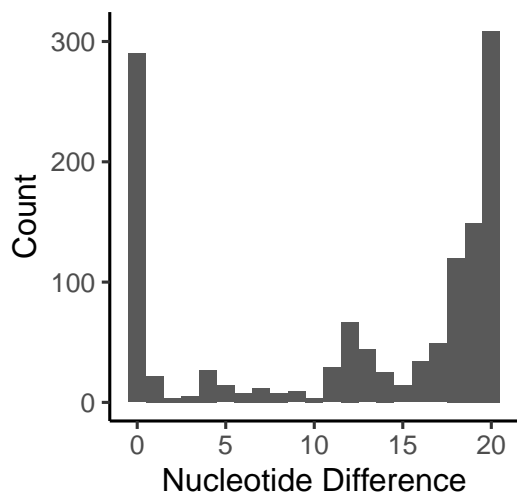
IGHV3-7*01

707 sequences assigned
310 (43.8%) exact matches, in which:
185 unique CDR3
6 unique J



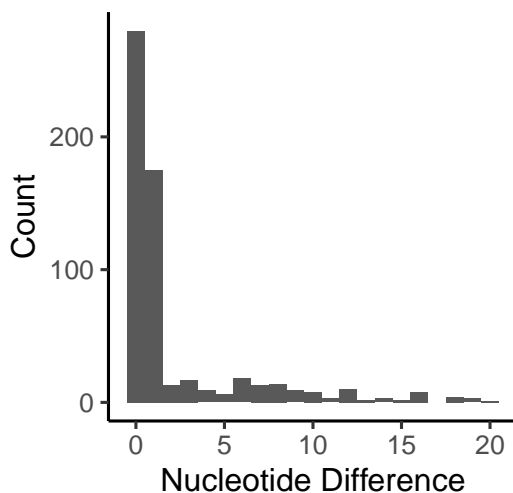
IGHV3-7*03

1761 sequences assigned
290 (16.5%) exact matches, in which:
175 unique CDR3
6 unique J



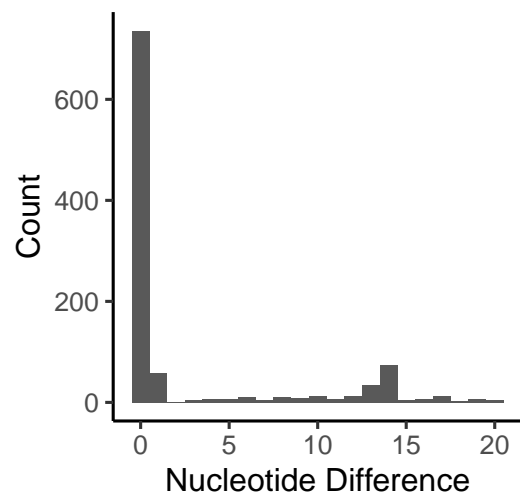
IGHV3-11*06

645 sequences assigned
280 (43.4%) exact matches, in which:
161 unique CDR3
6 unique J



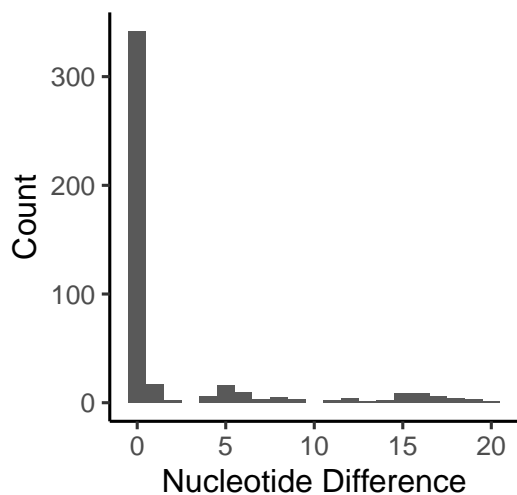
IGHV3-15*01_02

1081 sequences assigned
736 (68.1%) exact matches, in which:
459 unique CDR3
6 unique J



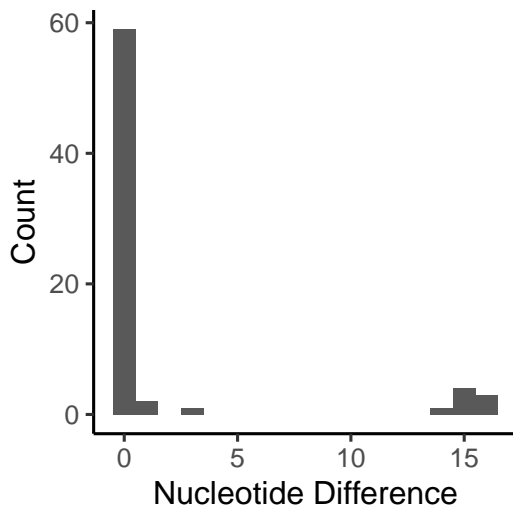
IGHV3-9*01

486 sequences assigned
342 (70.4%) exact matches, in which:
200 unique CDR3
6 unique J



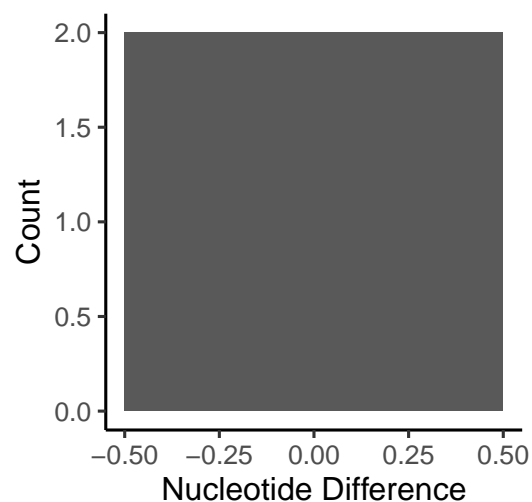
IGHV3-13*01

71 sequences assigned
59 (83.1%) exact matches, in which:
31 unique CDR3
4 unique J



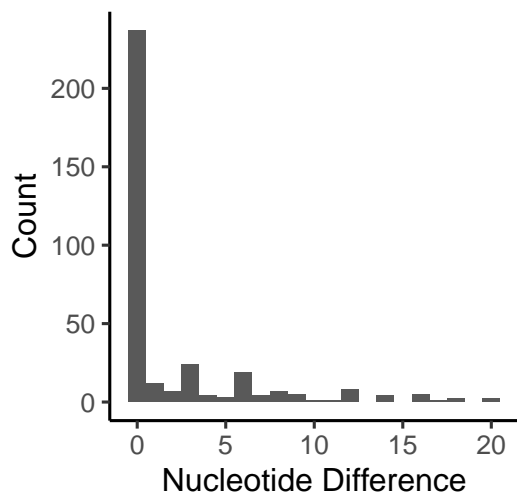
IGHV3-19*01

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



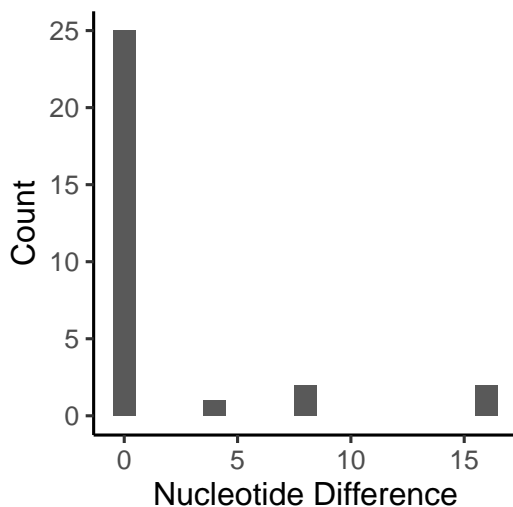
IGHV3-11*01

404 sequences assigned
237 (58.7%) exact matches, in which:
139 unique CDR3
5 unique J



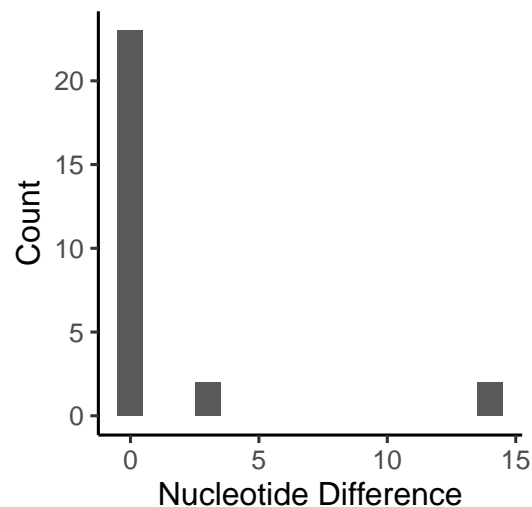
IGHV3-13*05

30 sequences assigned
25 (83.3%) exact matches, in which:
15 unique CDR3
4 unique J



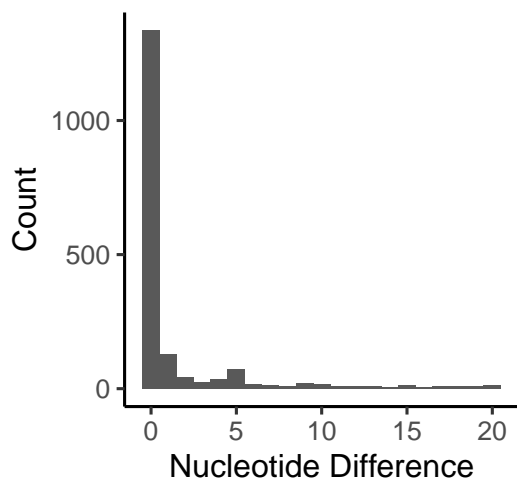
IGHV3-20*01_02

30 sequences assigned
23 (76.7%) exact matches, in which:
13 unique CDR3
5 unique J



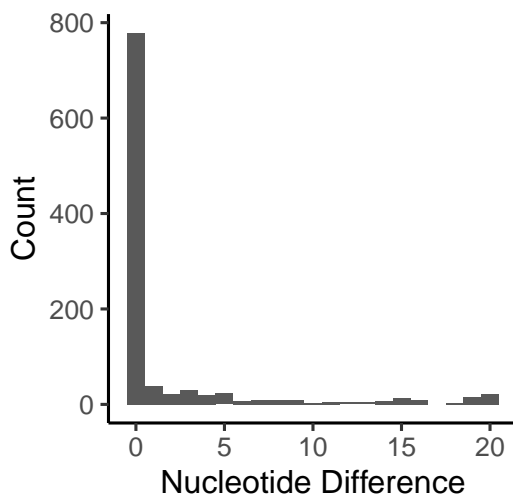
IGHV3-21*01_02

2065 sequences assigned
1336 (64.7%) exact matches, in which:
799 unique CDR3
6 unique J



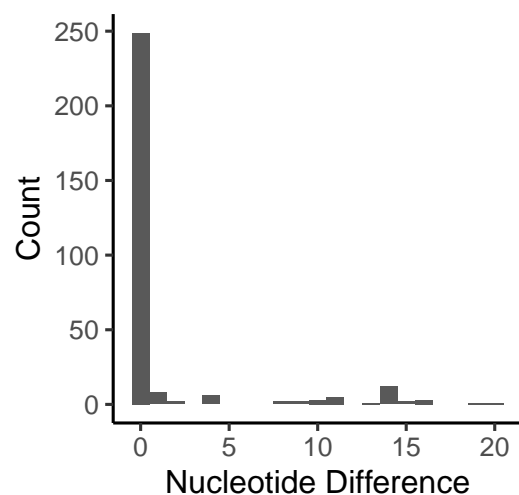
IGHV3-30-3*01

1242 sequences assigned
779 (62.7%) exact matches, in which:
489 unique CDR3
6 unique J



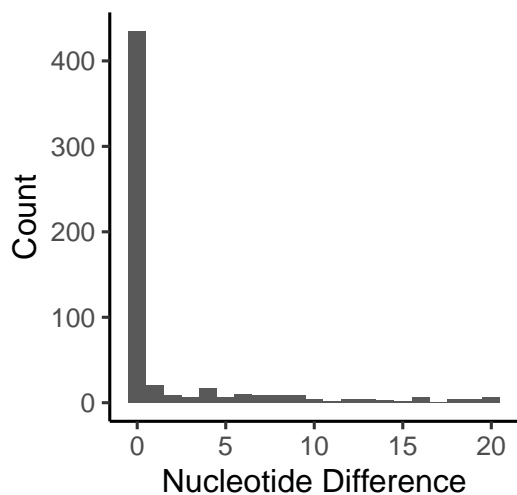
IGHV3-43*02

319 sequences assigned
249 (78.1%) exact matches, in which:
155 unique CDR3
6 unique J



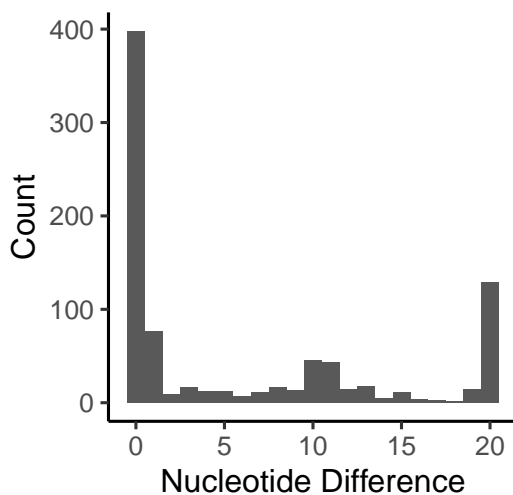
IGHV3-23*03

637 sequences assigned
435 (68.3%) exact matches, in which:
257 unique CDR3
6 unique J



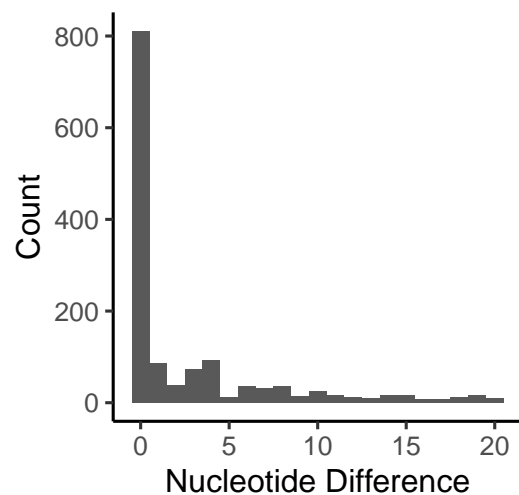
IGHV3-33*01

1150 sequences assigned
398 (34.6%) exact matches, in which:
258 unique CDR3
6 unique J



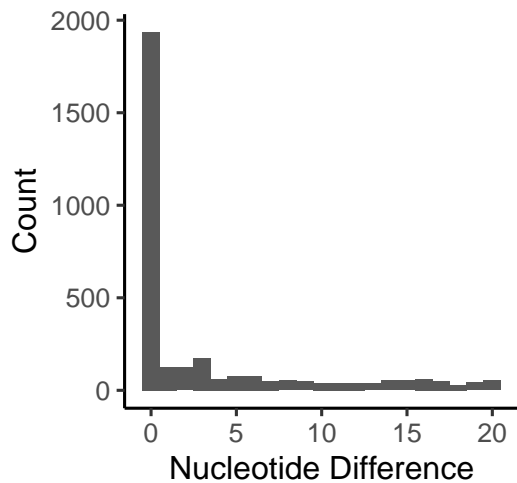
IGHV3-48*03

1678 sequences assigned
811 (48.3%) exact matches, in which:
481 unique CDR3
6 unique J



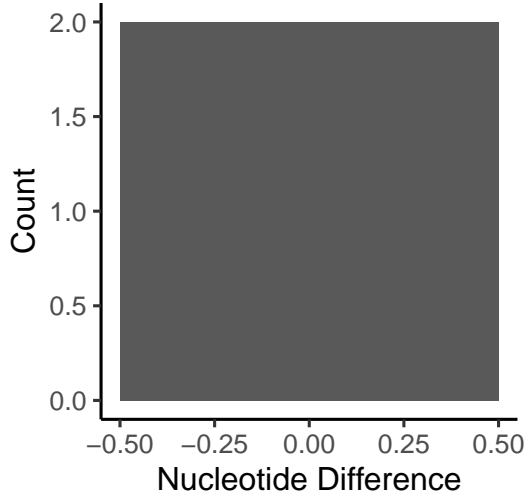
IGHV3-23*01_04

3789 sequences assigned
1936 (51.1%) exact matches, in which:
1134 unique CDR3
6 unique J



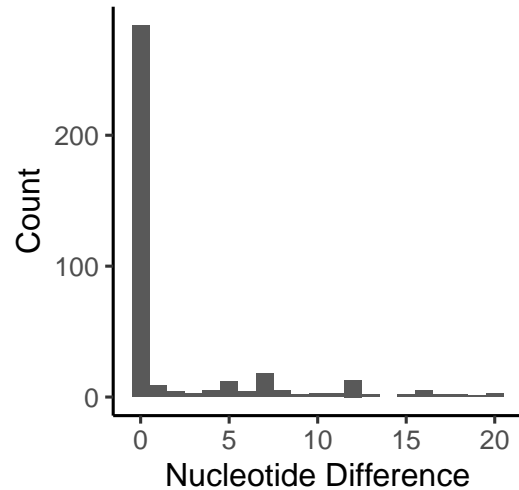
IGHV3-35*01

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



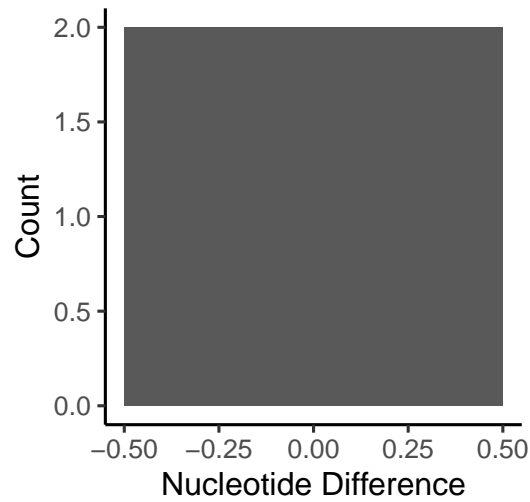
IGHV3-49*04

422 sequences assigned
284 (67.3%) exact matches, in which:
178 unique CDR3
5 unique J



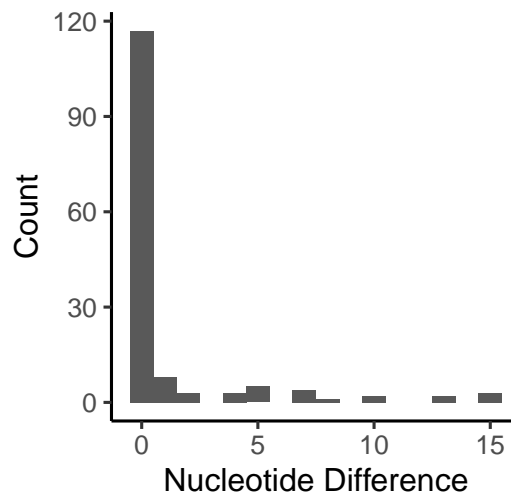
IGHV3-52*01_03

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



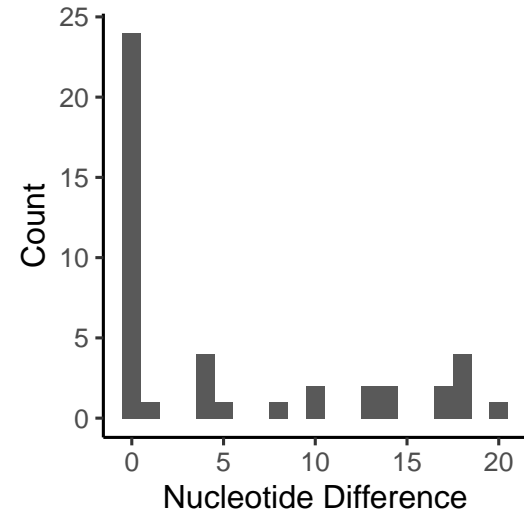
IGHV3-64*01

156 sequences assigned
117 (75%) exact matches, in which:
64 unique CDR3
5 unique J



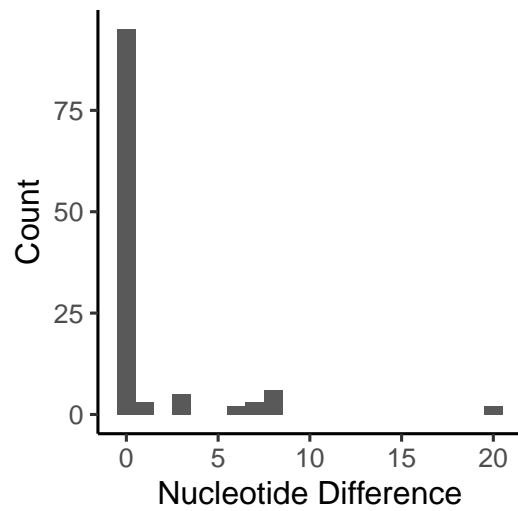
IGHV3-72*01

63 sequences assigned
24 (38.1%) exact matches, in which:
18 unique CDR3
5 unique J



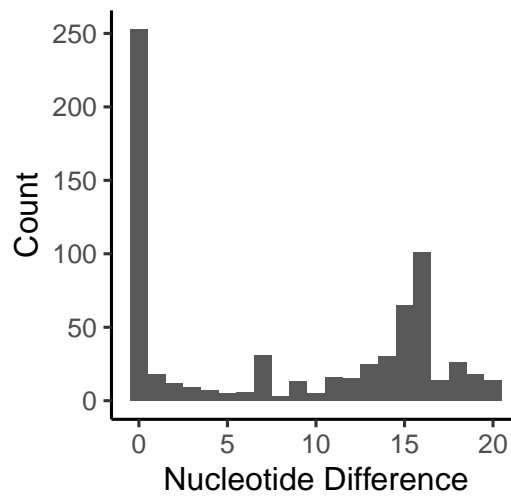
IGHV3-53*04

134 sequences assigned
95 (70.9%) exact matches, in which:
55 unique CDR3
5 unique J



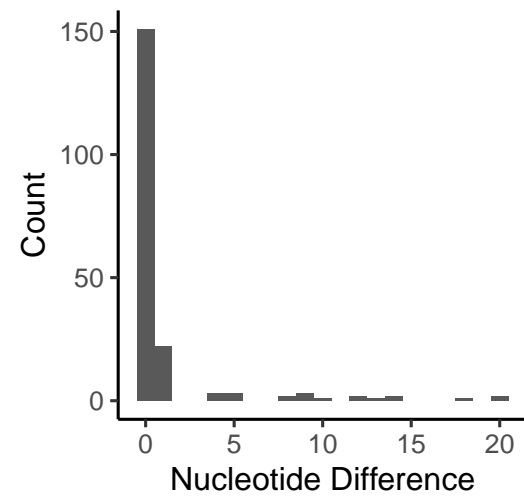
IGHV3-66*01

798 sequences assigned
253 (31.7%) exact matches, in which:
149 unique CDR3
6 unique J



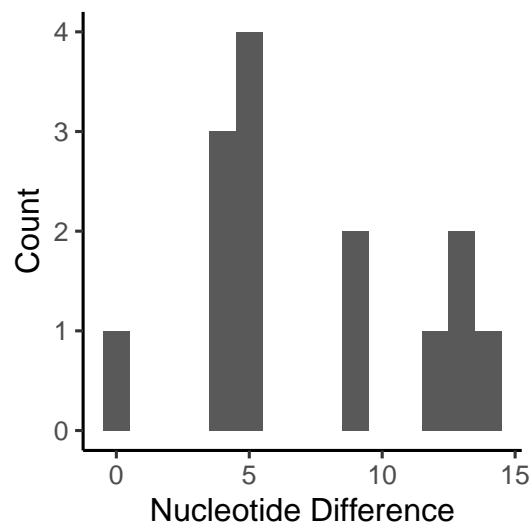
IGHV3-73*01_02

218 sequences assigned
151 (69.3%) exact matches, in which:
90 unique CDR3
5 unique J



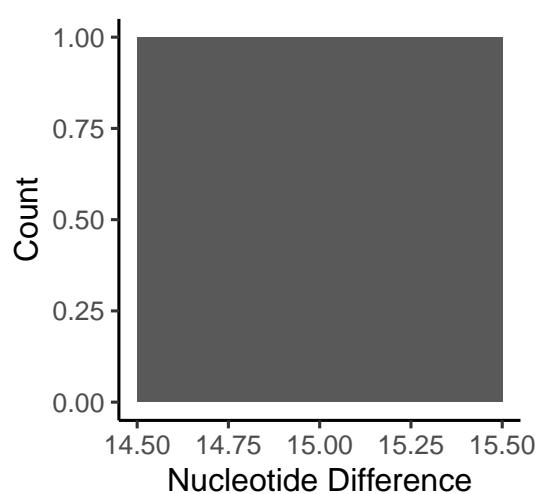
IGHV3-53*01_02

19 sequences assigned
1 (5.3%) exact matches, in which:
1 unique CDR3
1 unique J



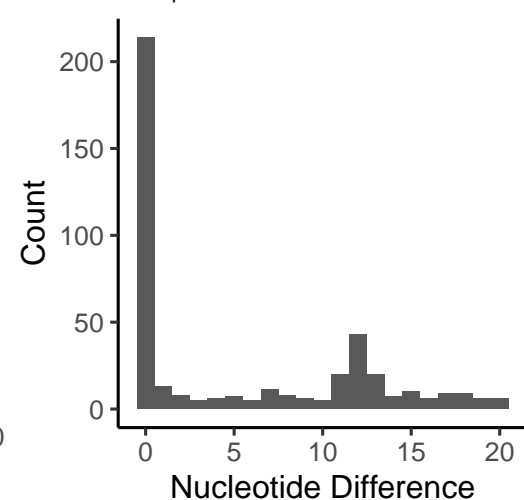
IGHV3-71*01_04

1 sequences assigned
No exact matches.



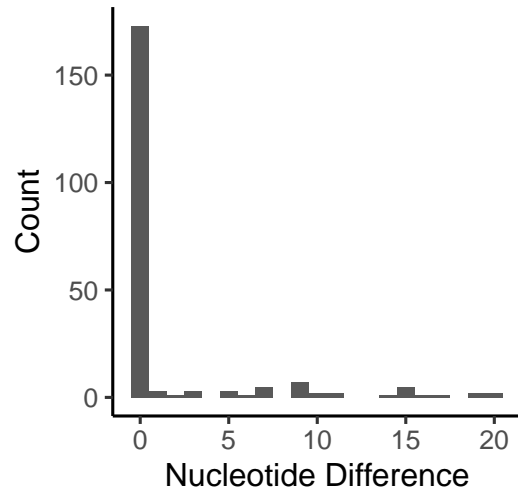
IGHV3-74*01_02

490 sequences assigned
214 (43.7%) exact matches, in which:
125 unique CDR3
6 unique J



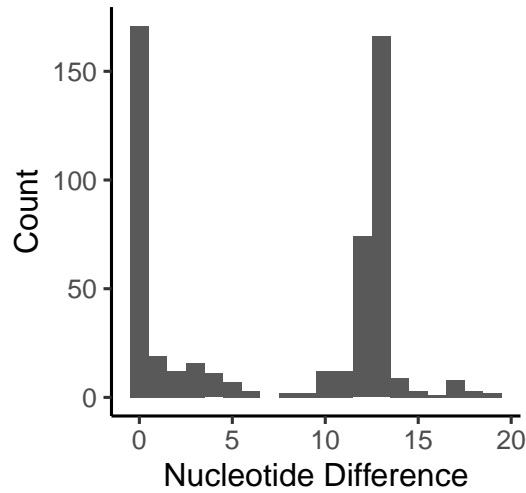
IGHV3-64D*06

240 sequences assigned
173 (72.1%) exact matches, in which:
85 unique CDR3
5 unique J



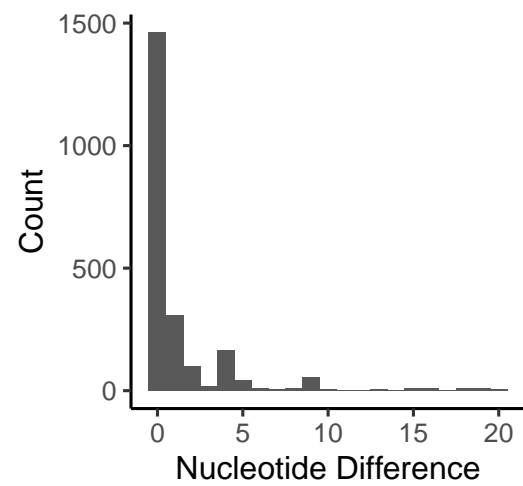
IGHV4-30-4*01

675 sequences assigned
171 (25.3%) exact matches, in which:
161 unique CDR3
6 unique J



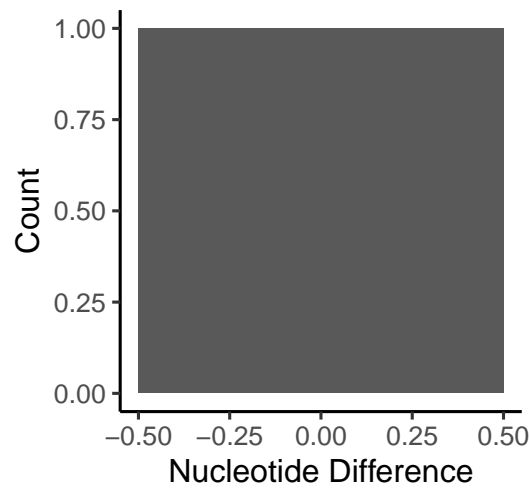
IGHV4-34*01_02

2944 sequences assigned
1462 (49.7%) exact matches, in which:
1131 unique CDR3
6 unique J



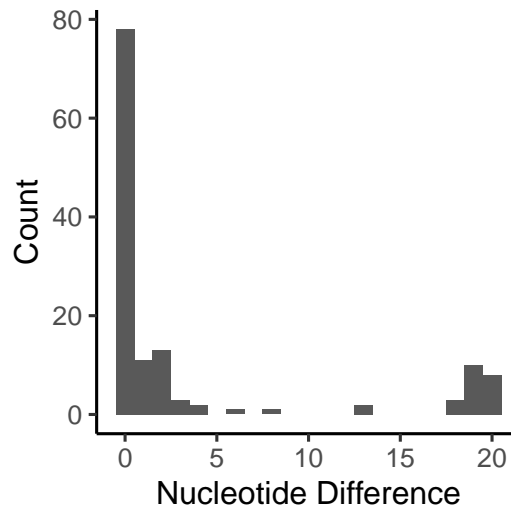
IGHV3-NL1*01

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



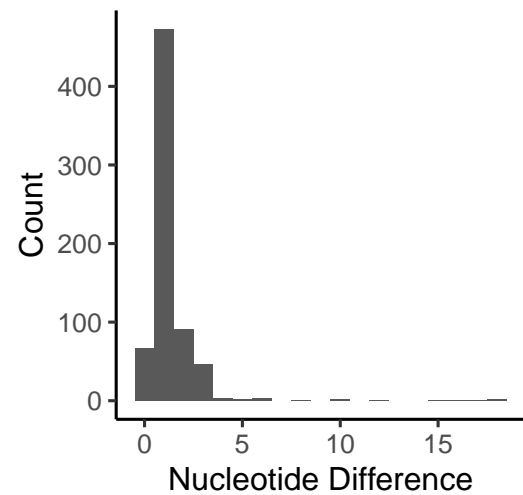
IGHV4-30-2*01

180 sequences assigned
78 (43.3%) exact matches, in which:
51 unique CDR3
5 unique J



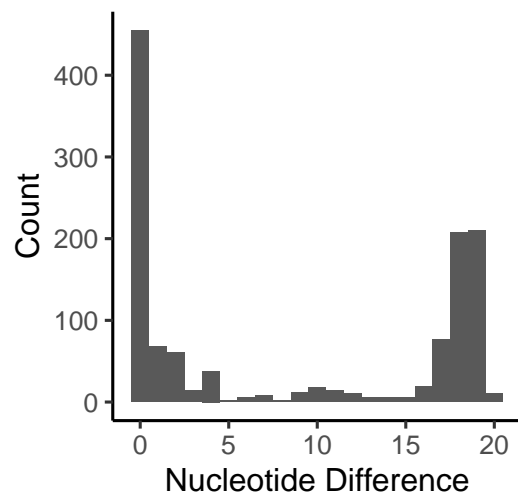
IGHV4-34*01_02_T300C

727 sequences assigned
67 (9.2%) exact matches, in which:
67 unique CDR3
5 unique J



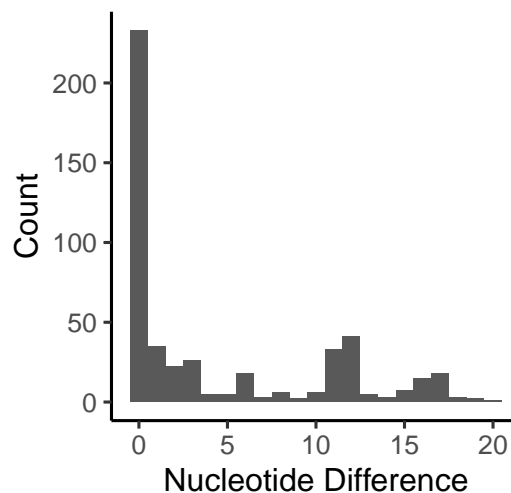
IGHV4-4*02_03

1408 sequences assigned
455 (32.3%) exact matches, in which:
364 unique CDR3
6 unique J



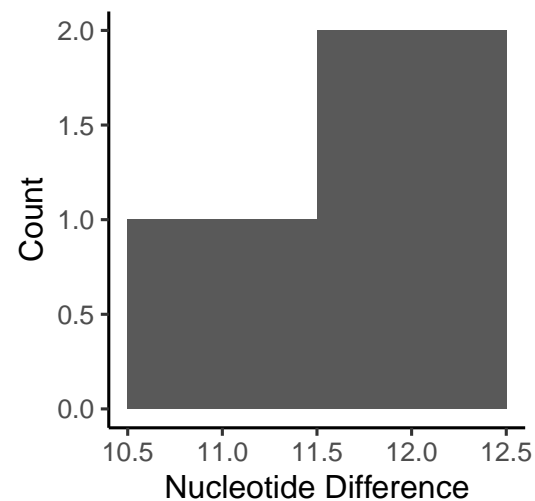
IGHV4-31*02

596 sequences assigned
233 (39.1%) exact matches, in which:
225 unique CDR3
6 unique J



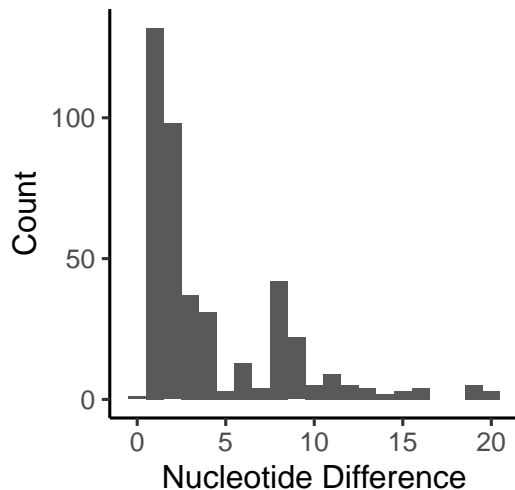
IGHV4-38-2*01

5 sequences assigned
No exact matches.



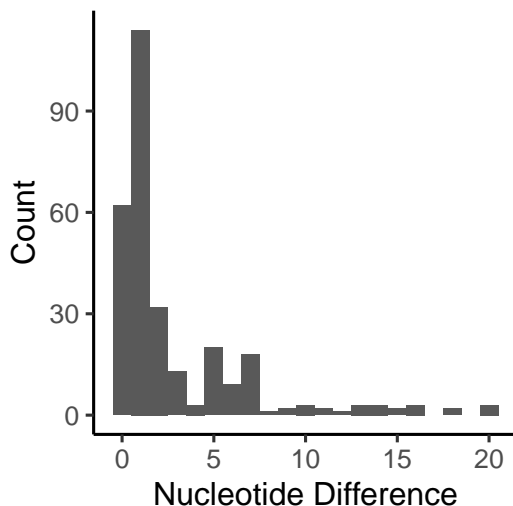
IGHV4-39*07

456 sequences assigned
1 (0.2%) exact matches, in which:
1 unique CDR3
1 unique J



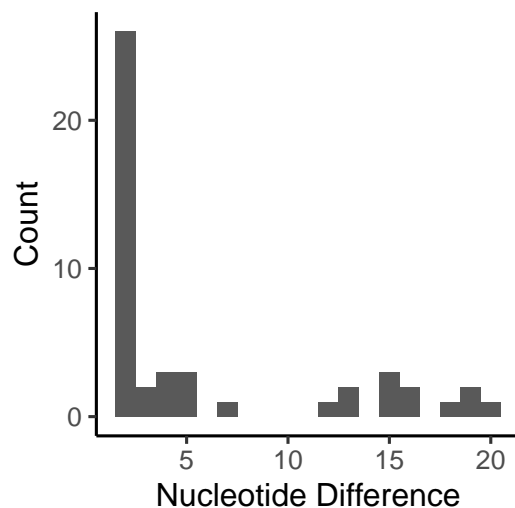
IGHV4-59*12

345 sequences assigned
62 (18%) exact matches, in which:
62 unique CDR3
5 unique J



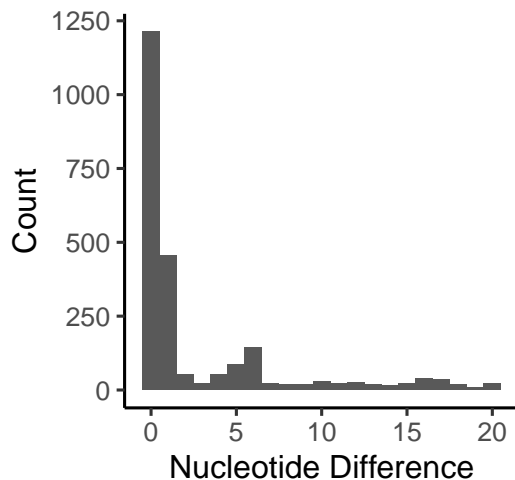
IGHV4-61*01

52 sequences assigned
No exact matches.



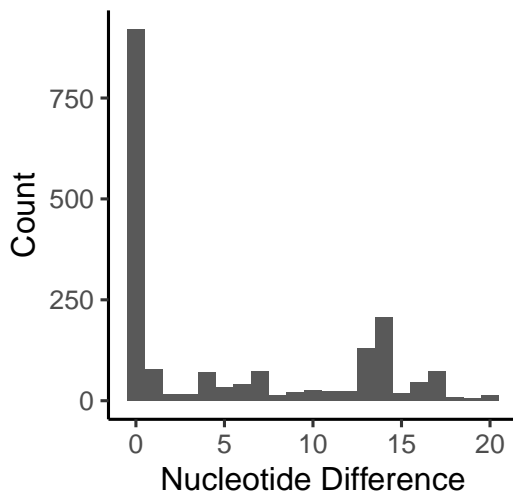
IGHV4-39*02_C258G

2929 sequences assigned
1213 (41.4%) exact matches, in which:
1038 unique CDR3
6 unique J



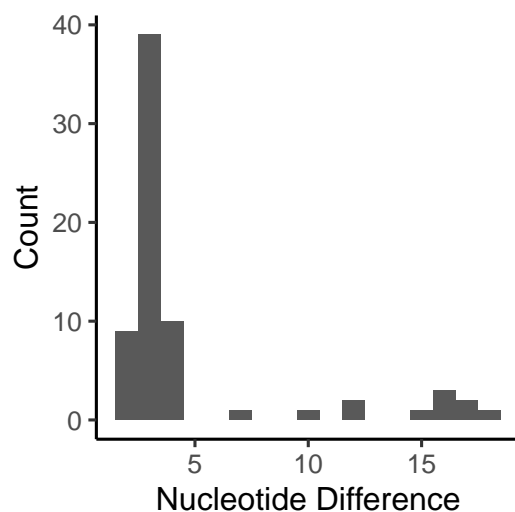
IGHV4-59*02_G88A

2022 sequences assigned
921 (45.5%) exact matches, in which:
851 unique CDR3
6 unique J



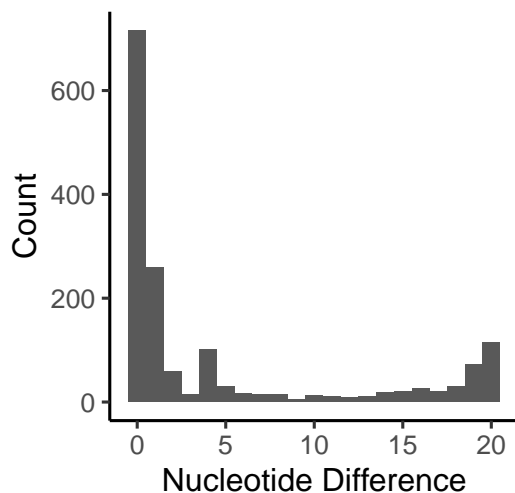
IGHV4-61*05

81 sequences assigned
No exact matches.



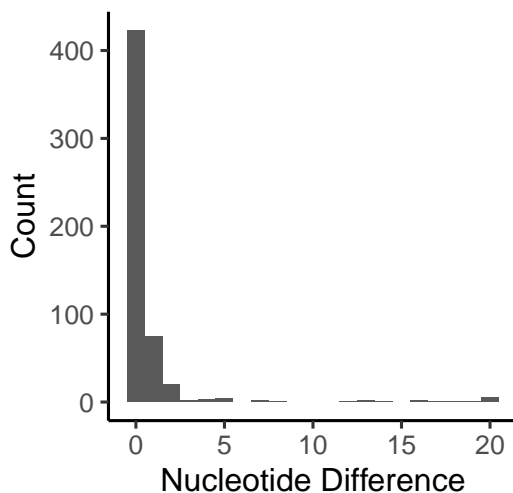
IGHV4-59*08

2544 sequences assigned
716 (28.1%) exact matches, in which:
672 unique CDR3
6 unique J



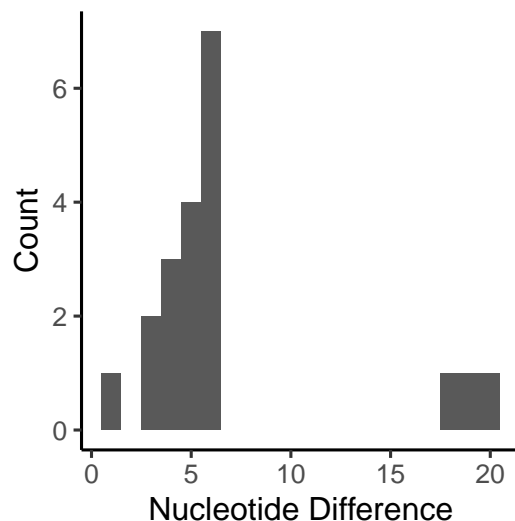
IGHV4-59*12_C300T

556 sequences assigned
423 (76.1%) exact matches, in which:
423 unique CDR3
6 unique J



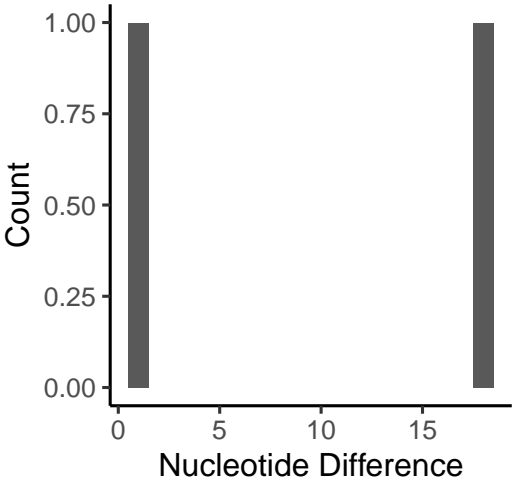
IGHV4-61*08

27 sequences assigned
No exact matches.



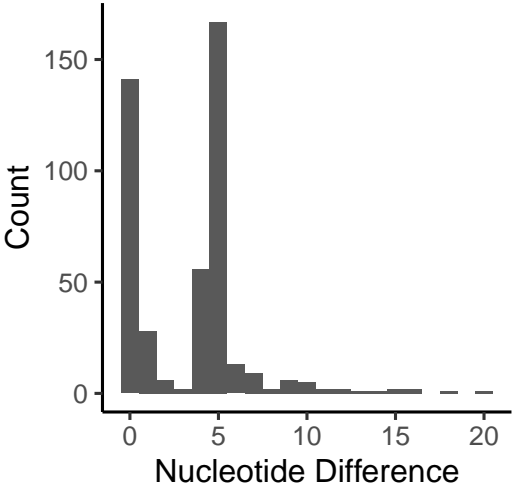
IGHV4/OR15-8*01

3 sequences assigned
No exact matches.



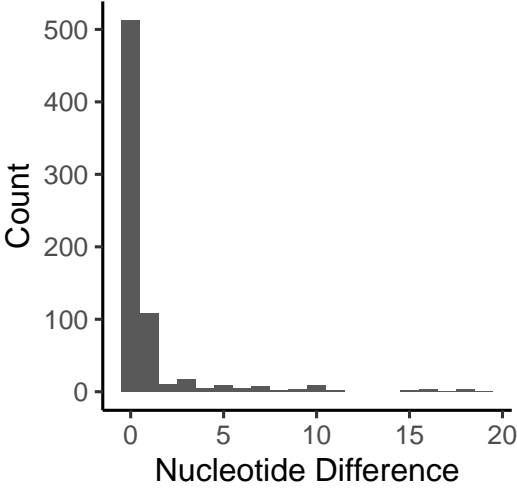
IGHV6-1*01_02

458 sequences assigned
141 (30.8%) exact matches, in which:
137 unique CDR3
6 unique J



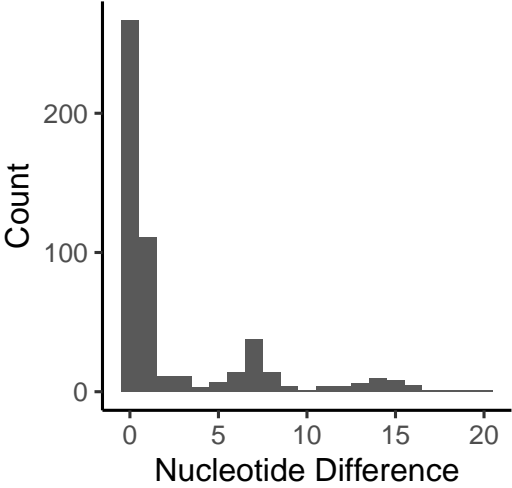
IGHV5-10-1*01_03

748 sequences assigned
513 (68.6%) exact matches, in which:
366 unique CDR3
6 unique J



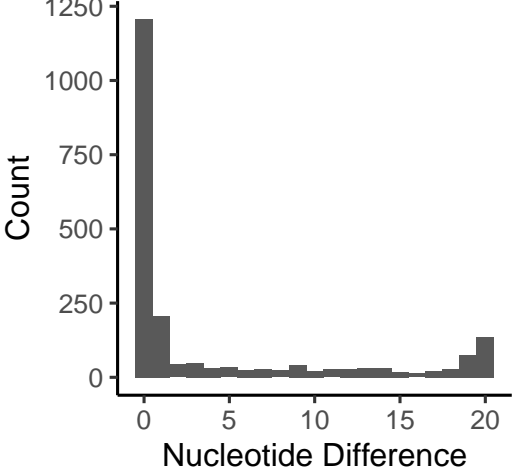
IGHV7-4-1*02

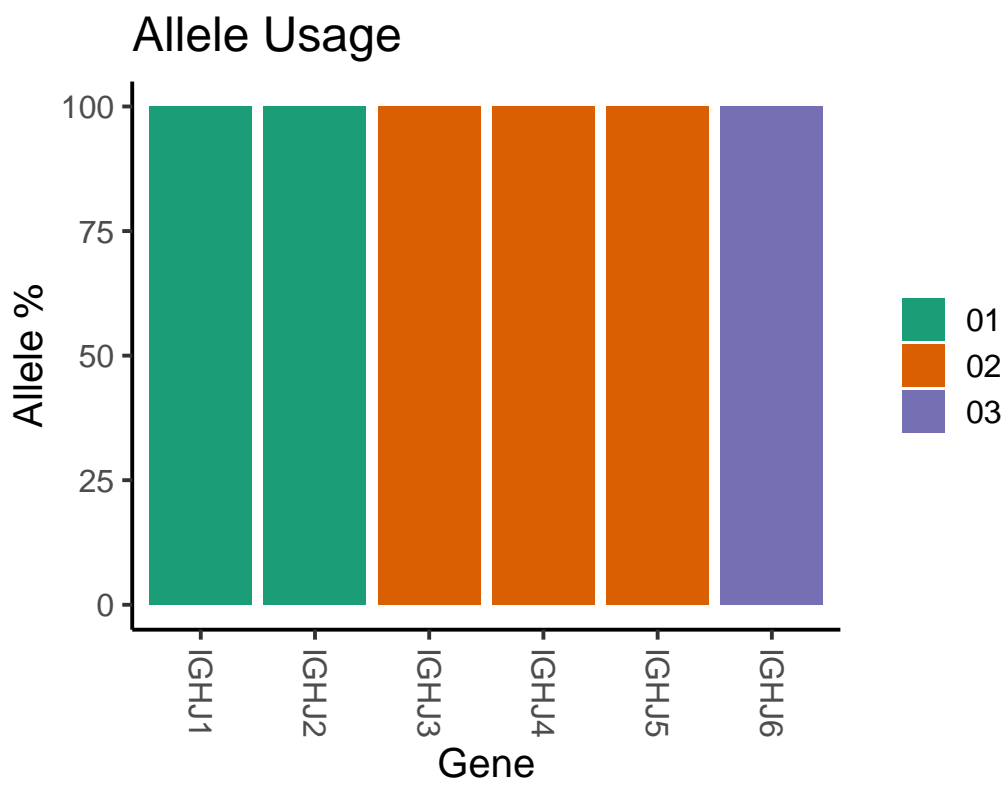
529 sequences assigned
267 (50.5%) exact matches, in which:
245 unique CDR3
6 unique J



IGHV5-51*07_A128G

2663 sequences assigned
1207 (45.3%) exact matches, in which:
730 unique CDR3
6 unique J





Warning – no inferred sequences found.