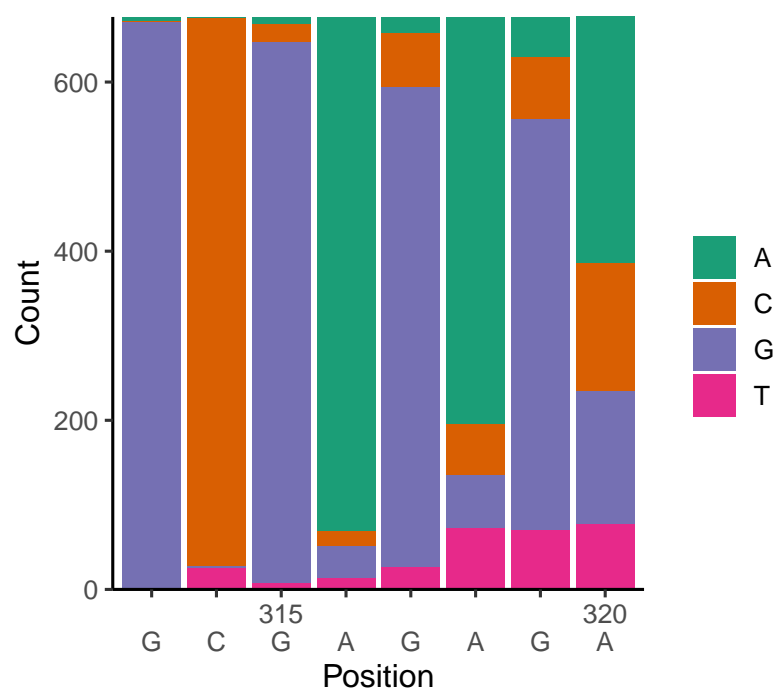
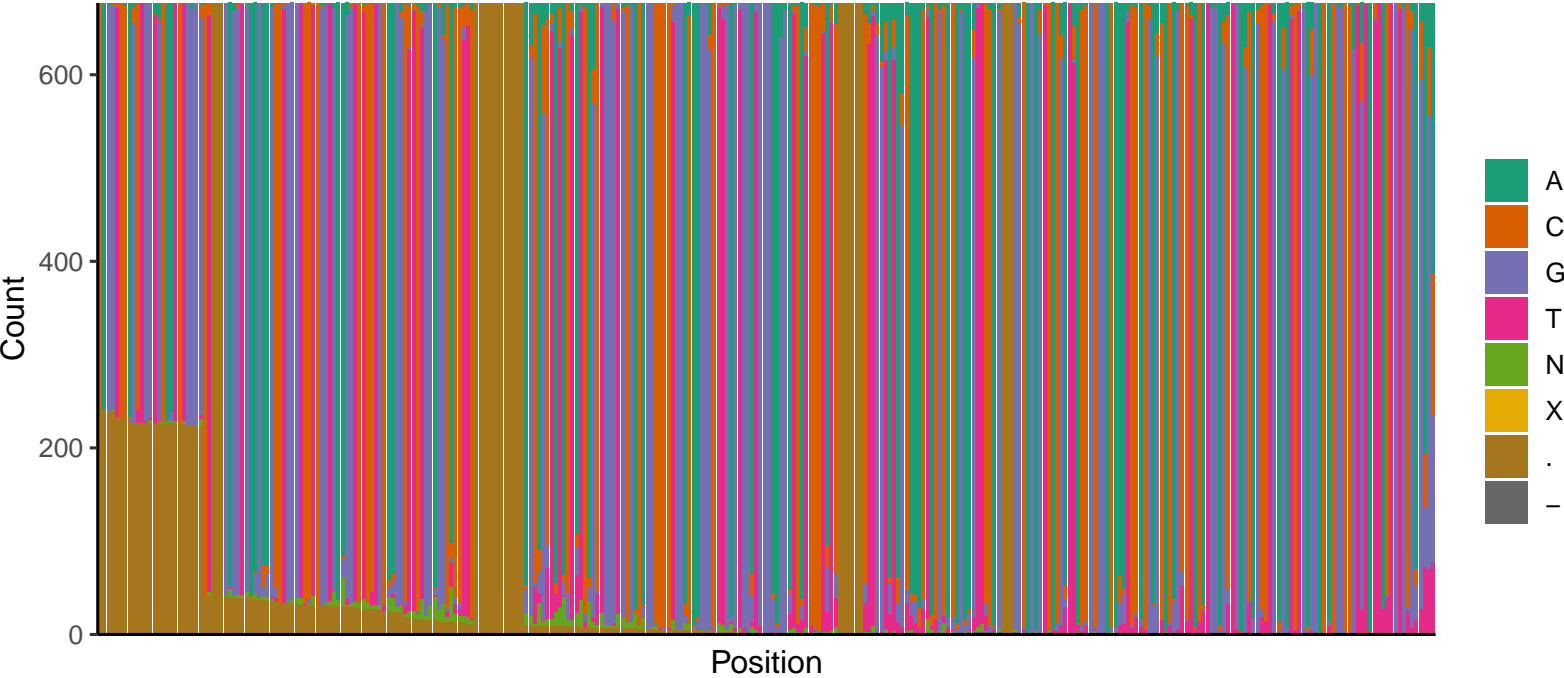


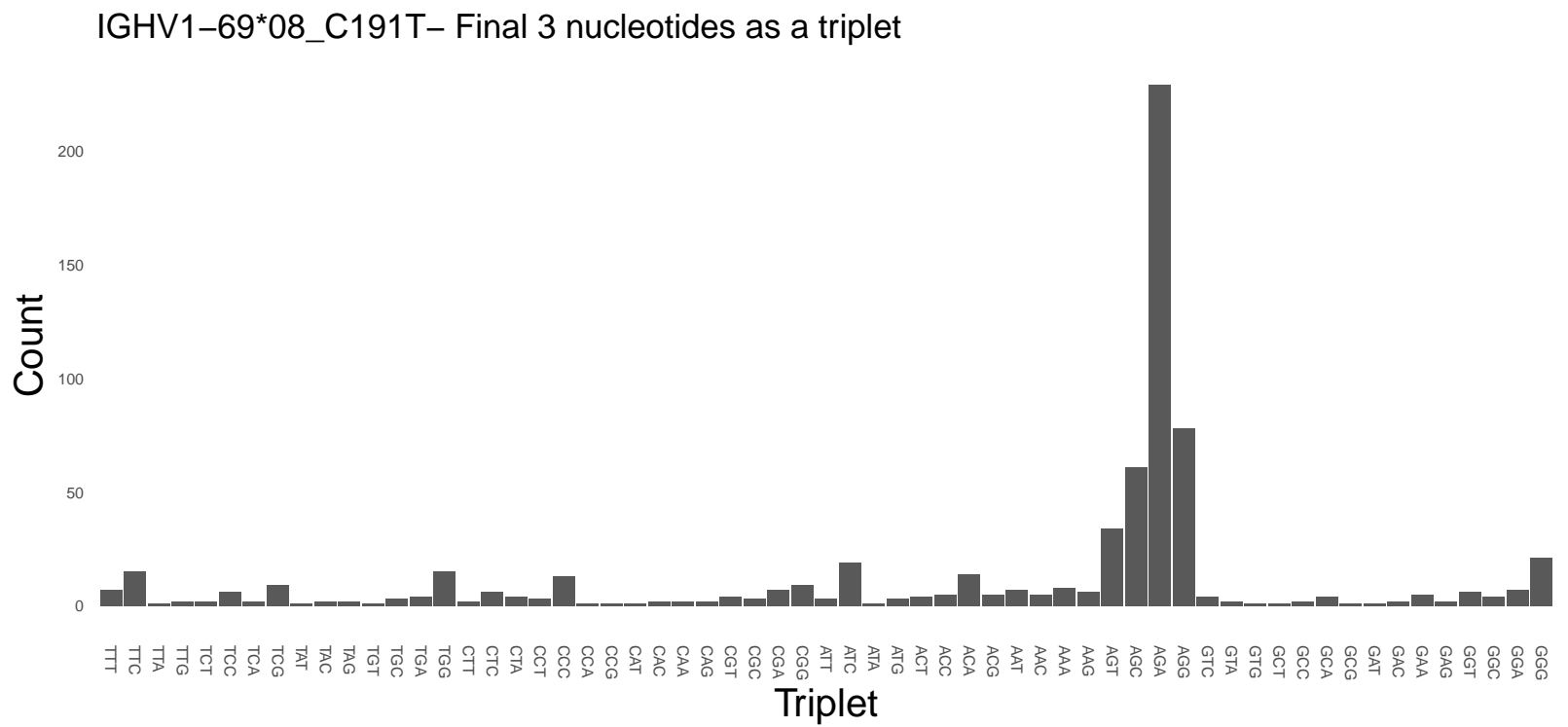
Gene IGHV1-69*08_C191T



Gene IGHV1-69*08_C191T

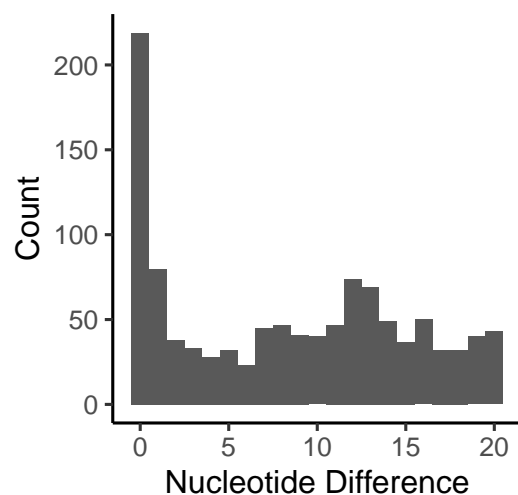


IGHV1-69*08_C191T- Final 3 nucleotides as a triplet



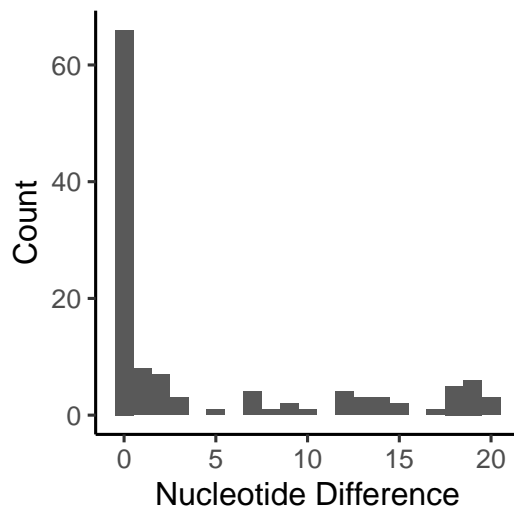
IGHV1-2*02

1458 sequences assigned
219 (15%) exact matches, in which:
211 unique CDR3
6 unique J



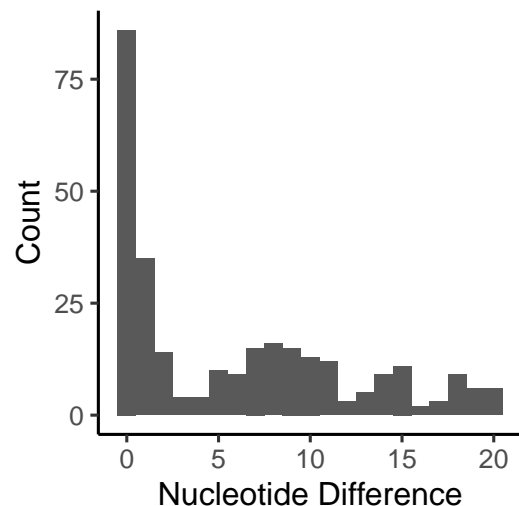
IGHV1-24*01

154 sequences assigned
66 (42.9%) exact matches, in which:
65 unique CDR3
6 unique J



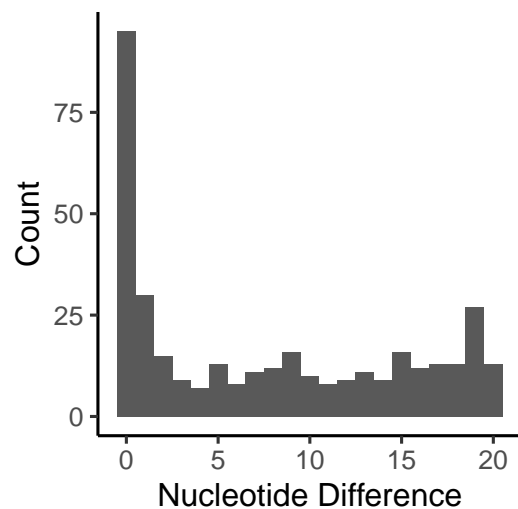
IGHV1-46*03

391 sequences assigned
86 (22%) exact matches, in which:
83 unique CDR3
5 unique J



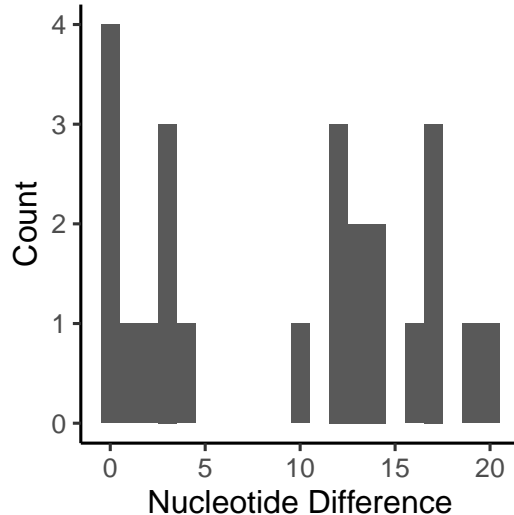
IGHV1-3*01

575 sequences assigned
95 (16.5%) exact matches, in which:
93 unique CDR3
6 unique J



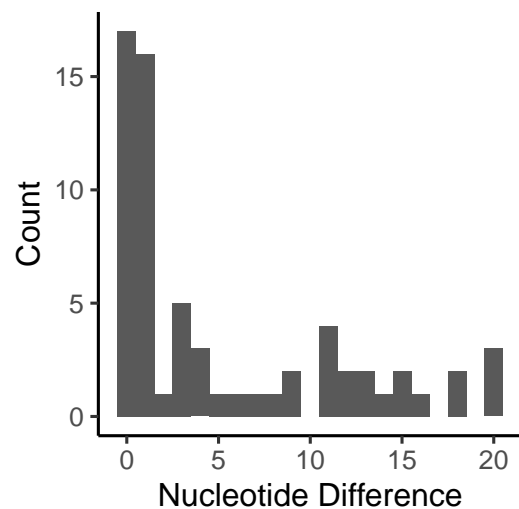
IGHV1-45*02

46 sequences assigned
4 (8.7%) exact matches, in which:
4 unique CDR3
3 unique J



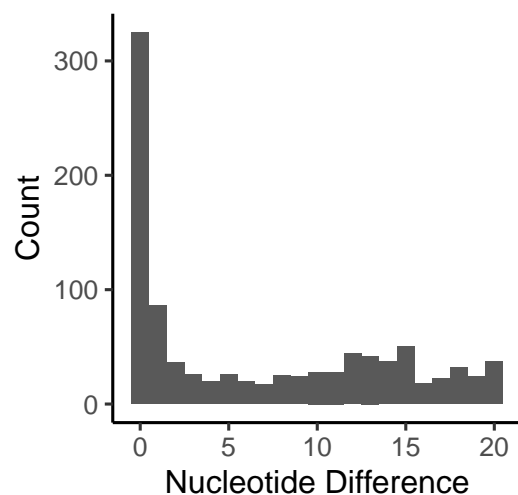
IGHV1-58*01

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



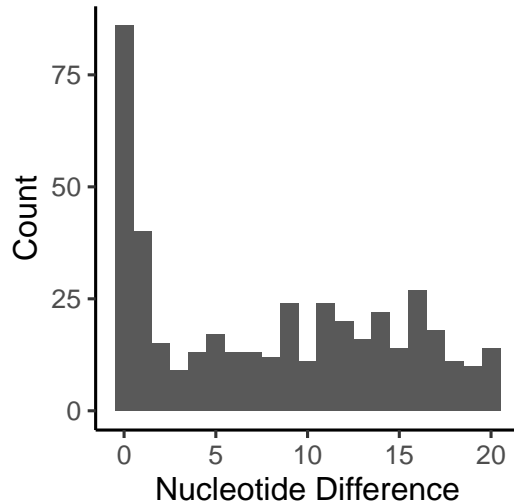
IGHV1-18*04

1479 sequences assigned
325 (22%) exact matches, in which:
315 unique CDR3
6 unique J



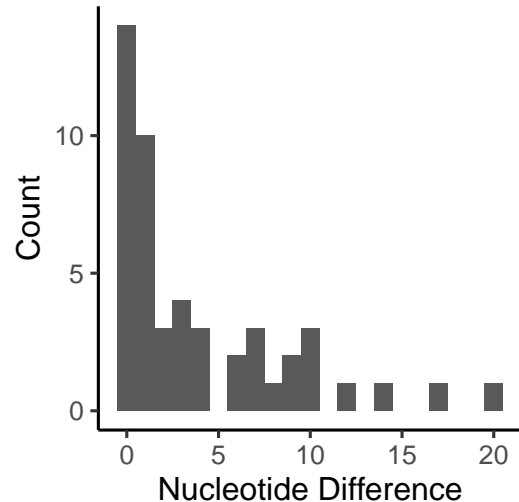
IGHV1-46*01

618 sequences assigned
86 (13.9%) exact matches, in which:
85 unique CDR3
4 unique J



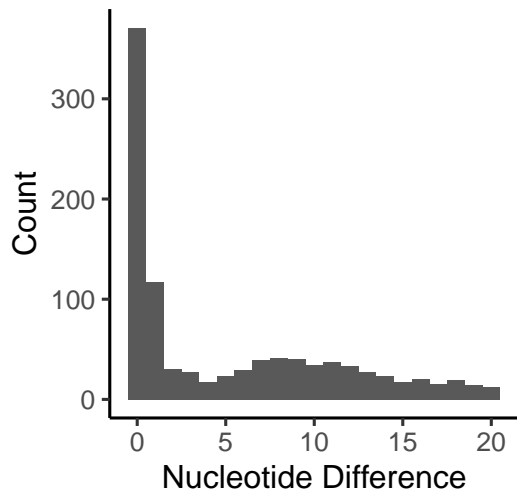
IGHV1-58*02

52 sequences assigned
14 (26.9%) exact matches, in which:
14 unique CDR3
3 unique J



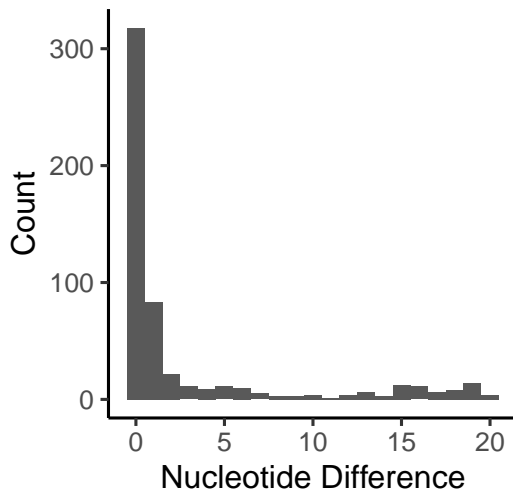
IGHV1-69*01

1213 sequences assigned
371 (30.6%) exact matches, in which:
356 unique CDR3
6 unique J



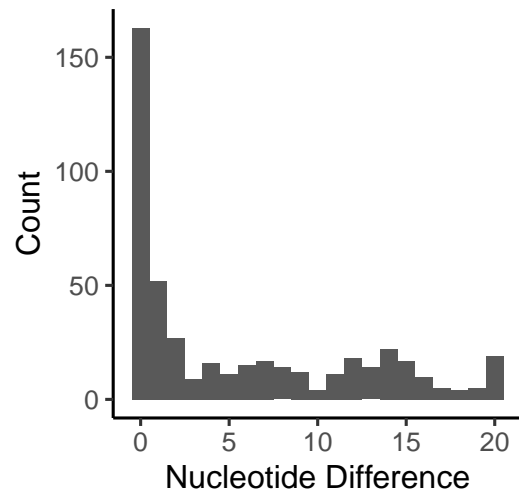
IGHV1-69*08_C191T

677 sequences assigned
318 (47%) exact matches, in which:
308 unique CDR3
6 unique J



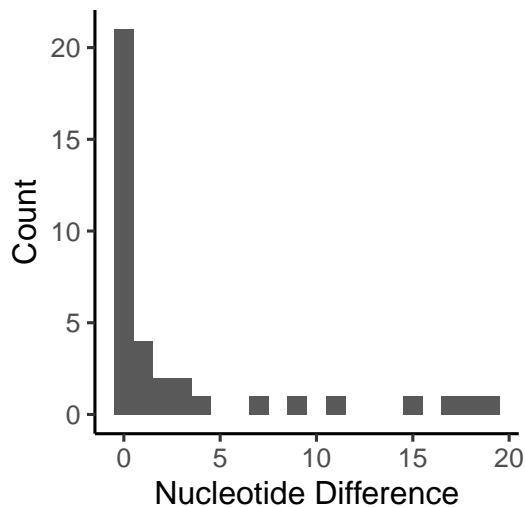
IGHV2-26*01

512 sequences assigned
163 (31.8%) exact matches, in which:
160 unique CDR3
5 unique J



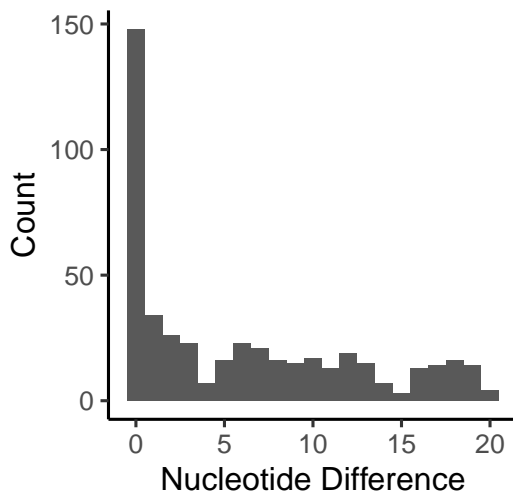
IGHV1-69-2*01

72 sequences assigned
21 (29.2%) exact matches, in which:
21 unique CDR3
5 unique J



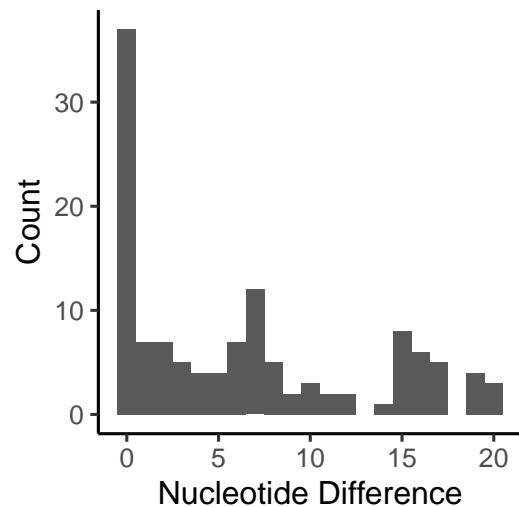
IGHV2-5*01

531 sequences assigned
148 (27.9%) exact matches, in which:
143 unique CDR3
6 unique J



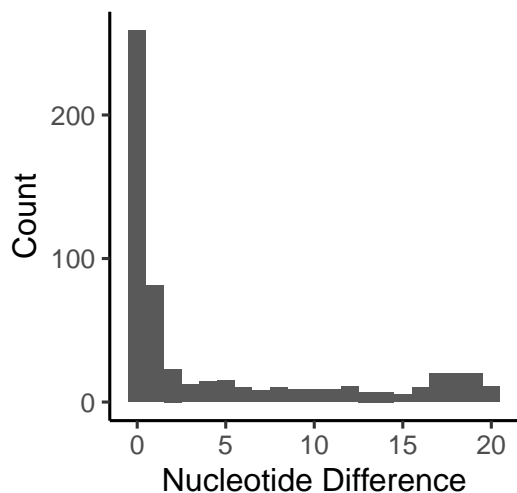
IGHV2-70*01

172 sequences assigned
37 (21.5%) exact matches, in which:
37 unique CDR3
6 unique J



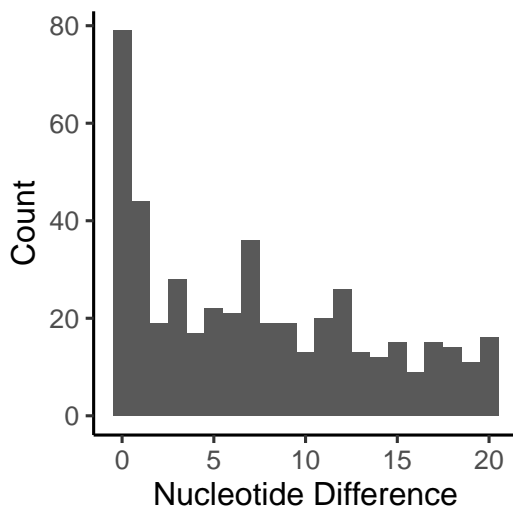
IGHV1-69*06

739 sequences assigned
259 (35%) exact matches, in which:
252 unique CDR3
5 unique J



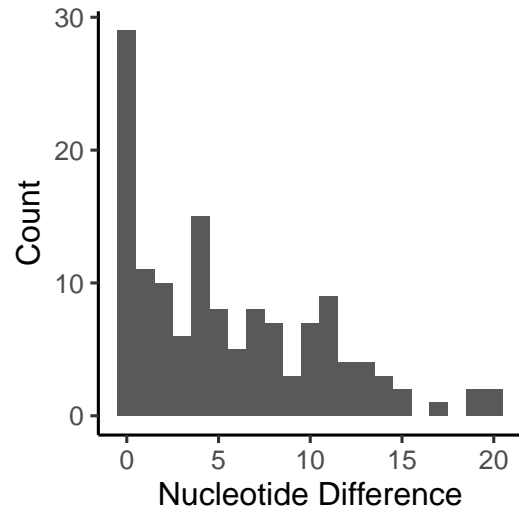
IGHV2-5*02

550 sequences assigned
79 (14.4%) exact matches, in which:
76 unique CDR3
6 unique J



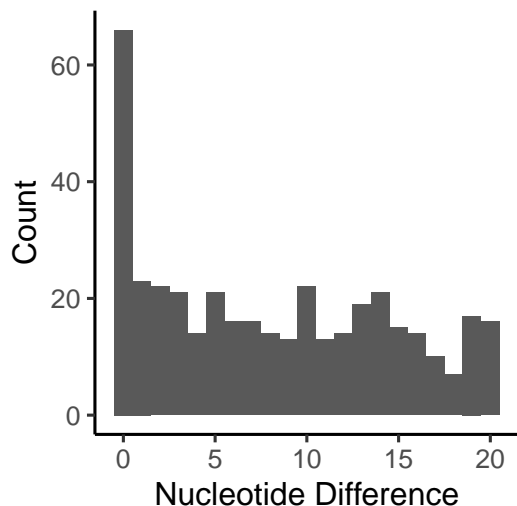
IGHV2-70*04

145 sequences assigned
29 (20%) exact matches, in which:
29 unique CDR3
5 unique J



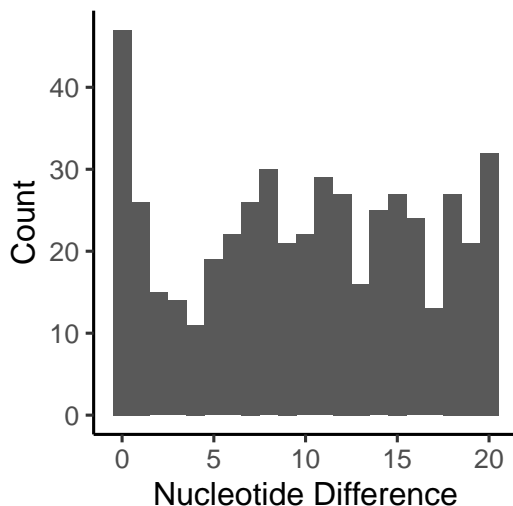
IGHV2-70*15

475 sequences assigned
66 (13.9%) exact matches, in which:
66 unique CDR3
6 unique J



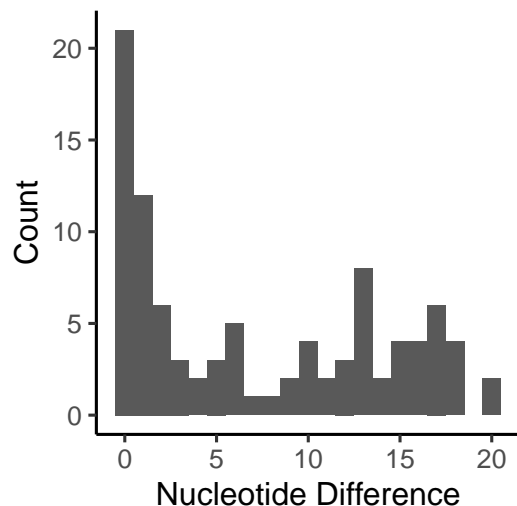
IGHV3-7*03

781 sequences assigned
47 (6%) exact matches, in which:
46 unique CDR3
5 unique J



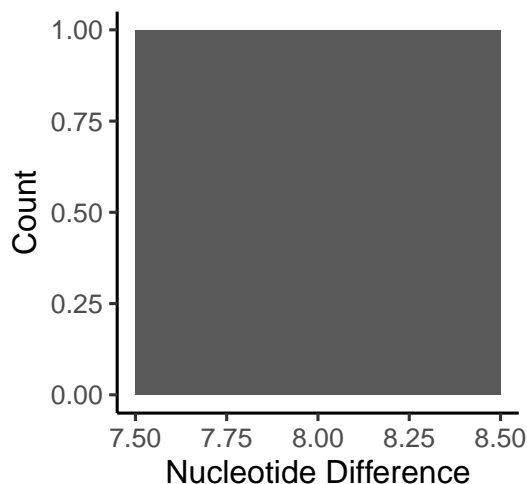
IGHV3-13*04

110 sequences assigned
21 (19.1%) exact matches, in which:
21 unique CDR3
5 unique J



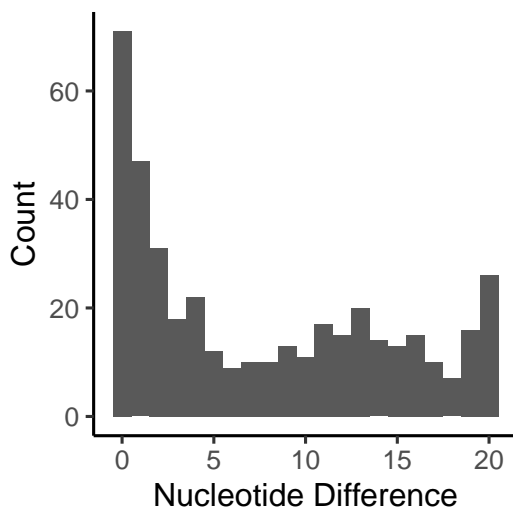
IGHV2-70D*14

1 sequences assigned
No exact matches.



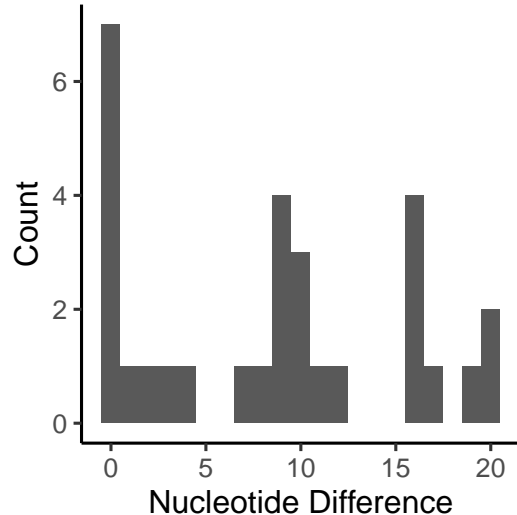
IGHV3-11*05

516 sequences assigned
71 (13.8%) exact matches, in which:
62 unique CDR3
5 unique J



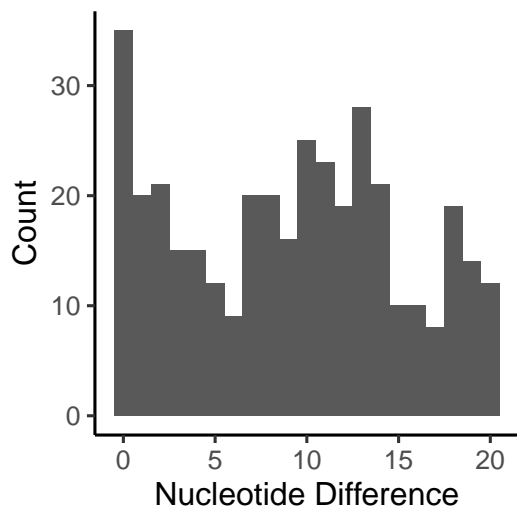
IGHV3-13*05

56 sequences assigned
7 (12.5%) exact matches, in which:
7 unique CDR3
2 unique J



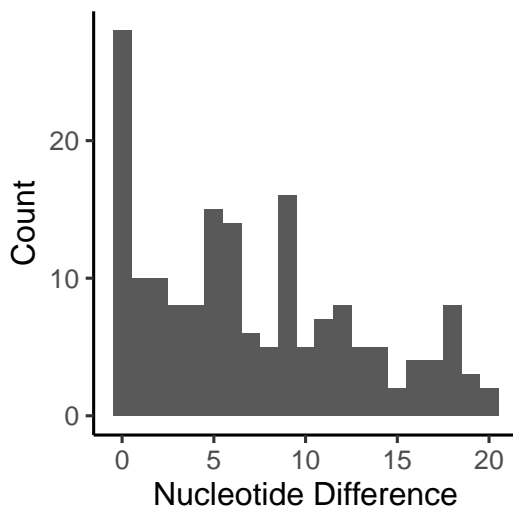
IGHV3-7*01

489 sequences assigned
35 (7.2%) exact matches, in which:
34 unique CDR3
6 unique J



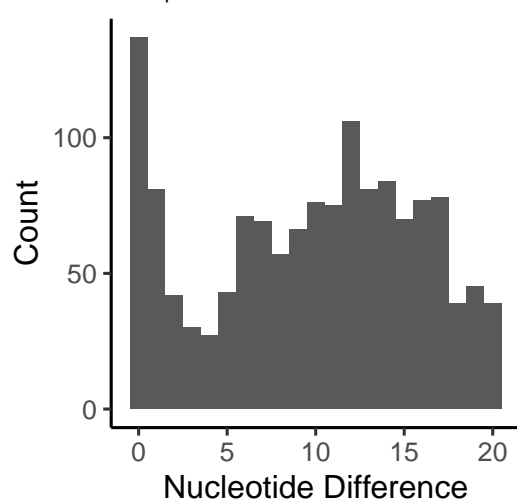
IGHV3-11*06

284 sequences assigned
28 (9.9%) exact matches, in which:
28 unique CDR3
4 unique J



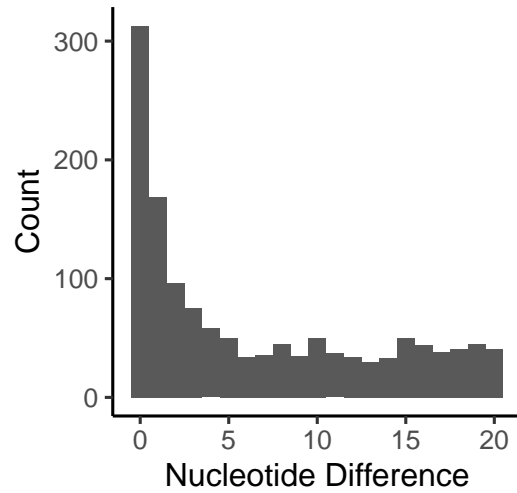
IGHV3-15*01

1693 sequences assigned
137 (8.1%) exact matches, in which:
133 unique CDR3
6 unique J



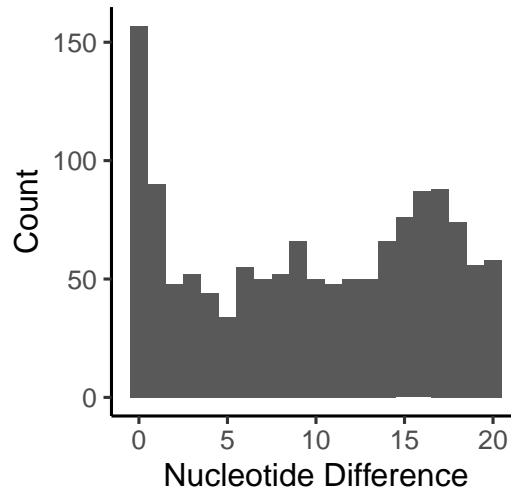
IGHV3-21*01

1857 sequences assigned
313 (16.9%) exact matches, in which:
298 unique CDR3
6 unique J



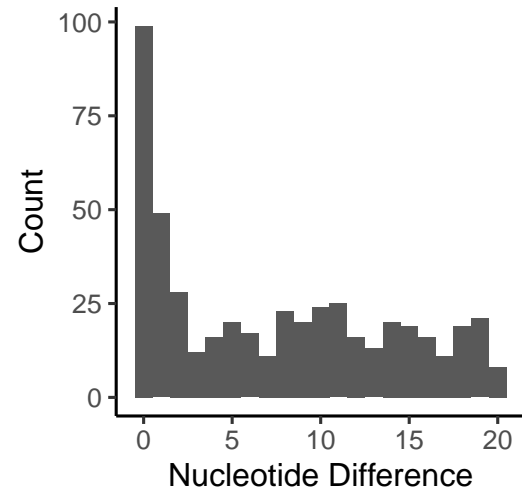
IGHV3-30*18

1914 sequences assigned
157 (8.2%) exact matches, in which:
156 unique CDR3
6 unique J



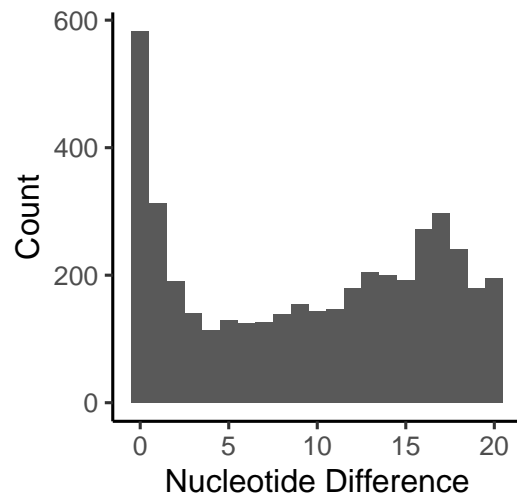
IGHV3-48*01

609 sequences assigned
99 (16.3%) exact matches, in which:
96 unique CDR3
5 unique J



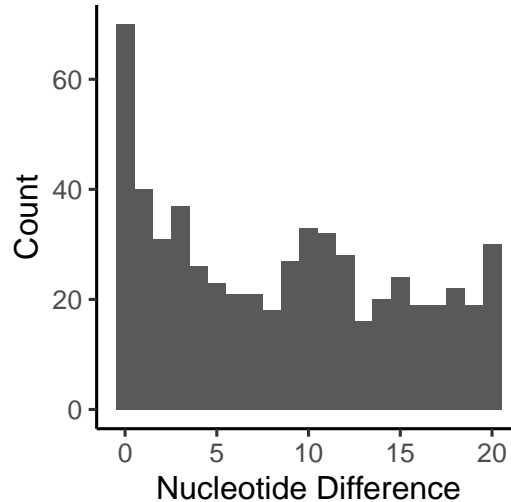
IGHV3-23*01

6687 sequences assigned
583 (8.7%) exact matches, in which:
565 unique CDR3
6 unique J



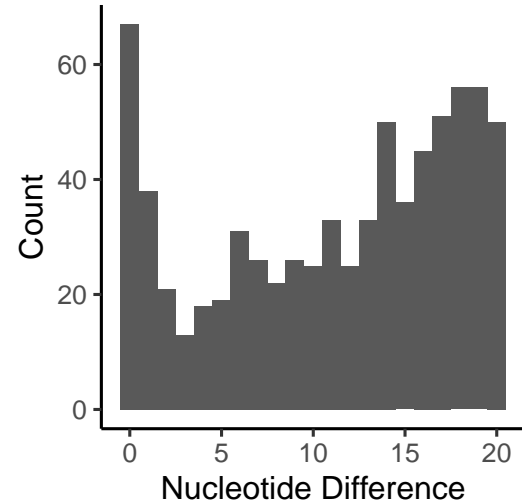
IGHV3-33*01

769 sequences assigned
70 (9.1%) exact matches, in which:
70 unique CDR3
6 unique J



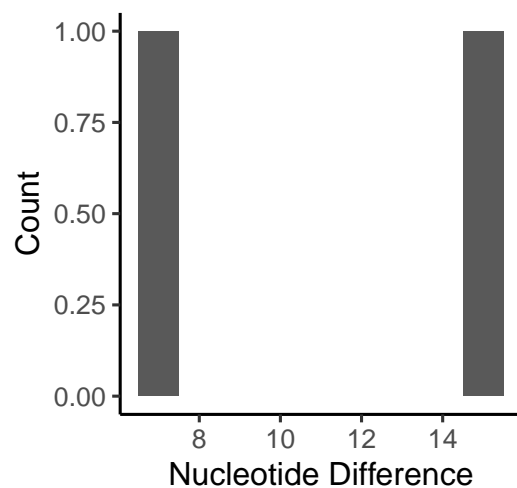
IGHV3-48*02

985 sequences assigned
67 (6.8%) exact matches, in which:
66 unique CDR3
5 unique J



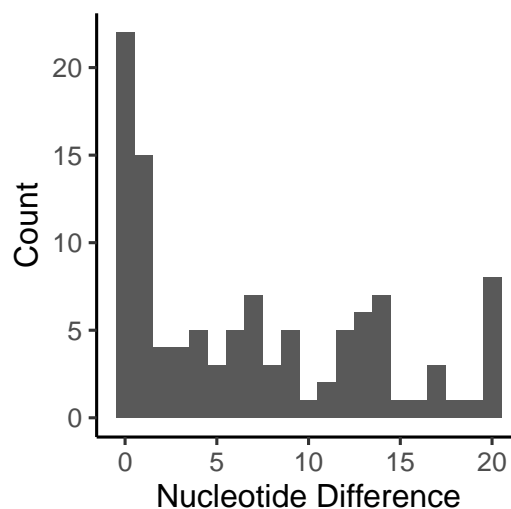
IGHV3-30-3*01

23 sequences assigned
No exact matches.



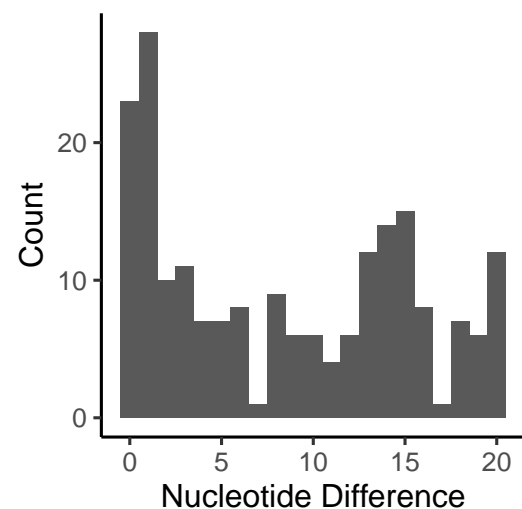
IGHV3-43*01

201 sequences assigned
22 (10.9%) exact matches, in which:
22 unique CDR3
5 unique J



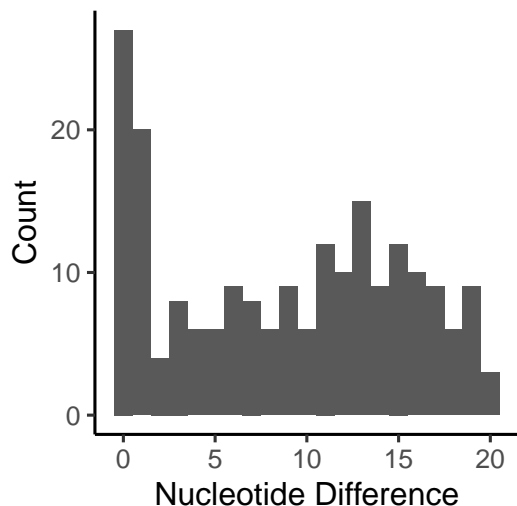
IGHV3-49*03

256 sequences assigned
23 (9%) exact matches, in which:
23 unique CDR3
3 unique J



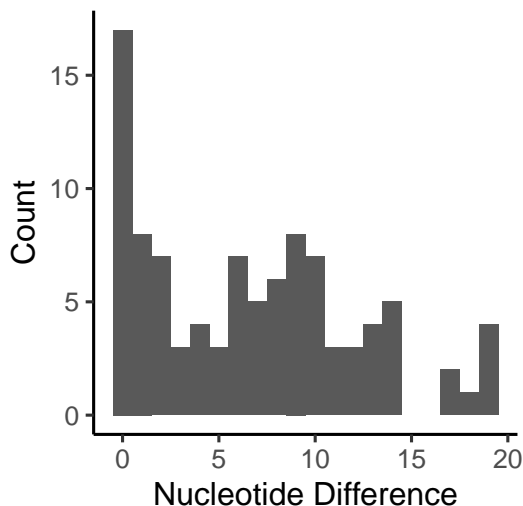
IGHV3-49*04

298 sequences assigned
27 (9.1%) exact matches, in which:
27 unique CDR3
4 unique J



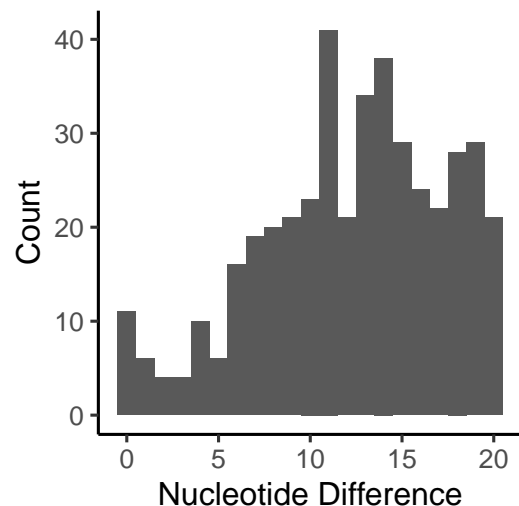
IGHV3-64*01

146 sequences assigned
17 (11.6%) exact matches, in which:
16 unique CDR3
4 unique J



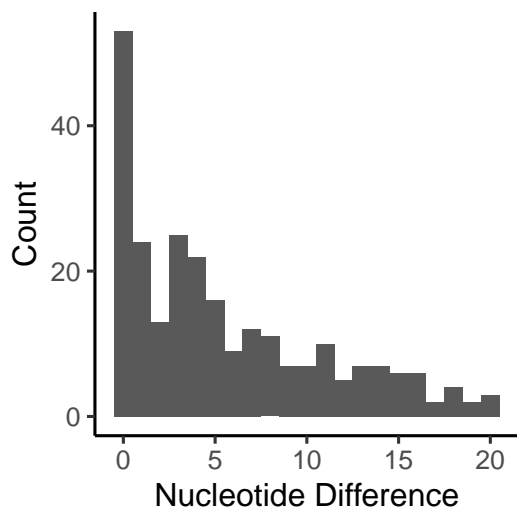
IGHV3-72*01

495 sequences assigned
11 (2.2%) exact matches, in which:
9 unique CDR3
3 unique J



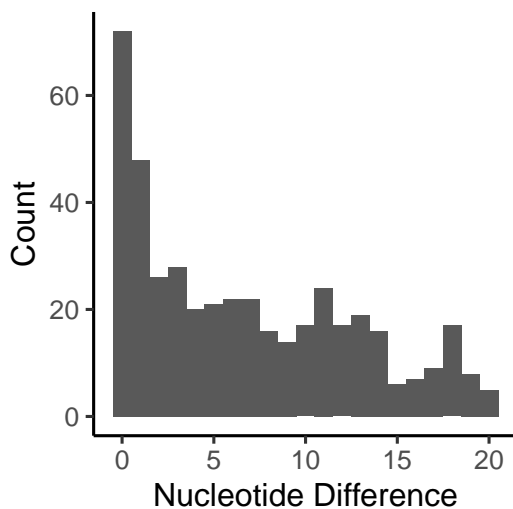
IGHV3-53*01

322 sequences assigned
53 (16.5%) exact matches, in which:
52 unique CDR3
5 unique J



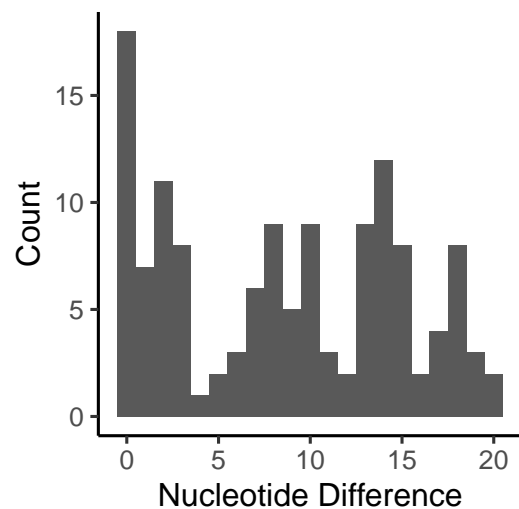
IGHV3-66*01

608 sequences assigned
72 (11.8%) exact matches, in which:
70 unique CDR3
5 unique J



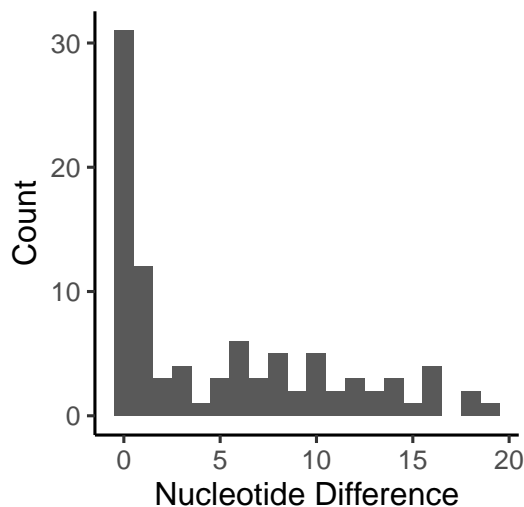
IGHV3-73*01

171 sequences assigned
18 (10.5%) exact matches, in which:
17 unique CDR3
4 unique J



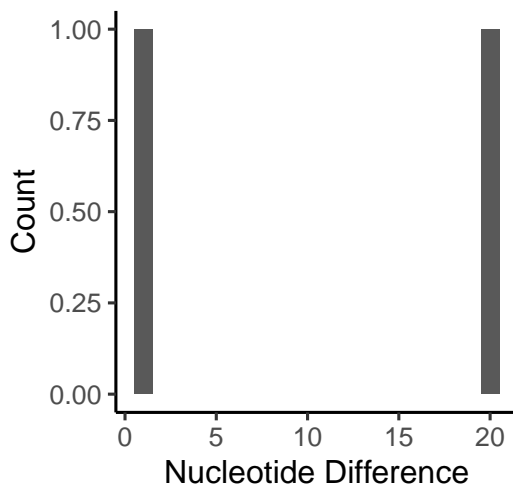
IGHV3-53*04

131 sequences assigned
31 (23.7%) exact matches, in which:
31 unique CDR3
5 unique J



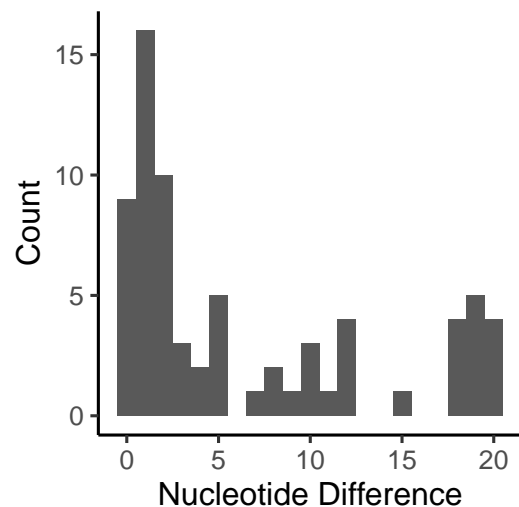
IGHV3-69-1*02

4 sequences assigned
No exact matches.



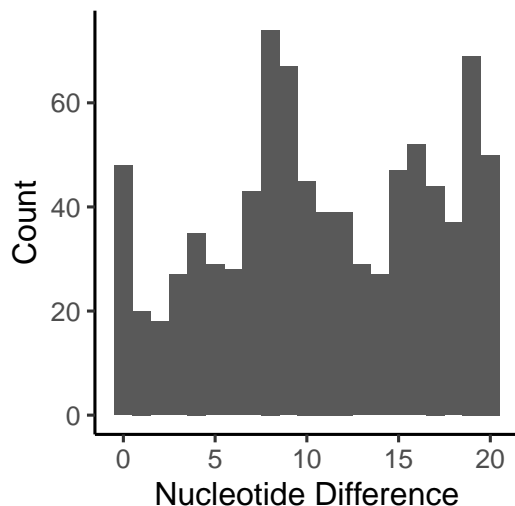
IGHV3-73*02

107 sequences assigned
9 (8.4%) exact matches, in which:
9 unique CDR3
3 unique J



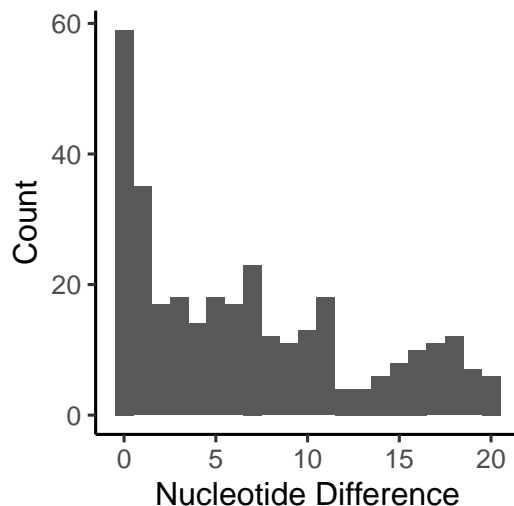
IGHV3-74*01

1238 sequences assigned
48 (3.9%) exact matches, in which:
46 unique CDR3
6 unique J



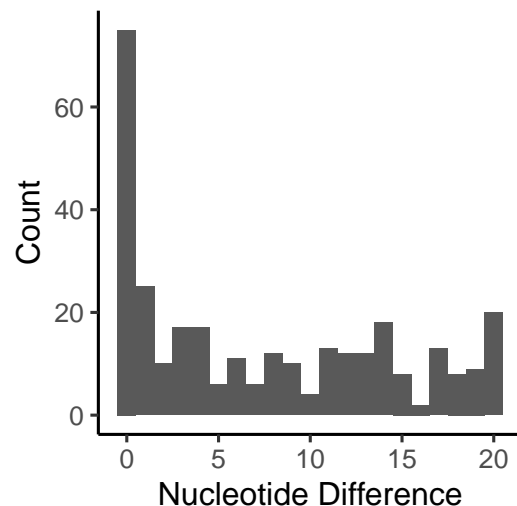
IGHV4-4*07

441 sequences assigned
59 (13.4%) exact matches, in which:
56 unique CDR3
5 unique J



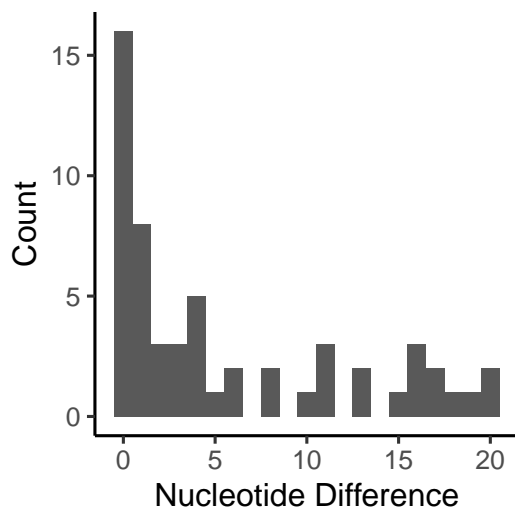
IGHV4-31*03

523 sequences assigned
75 (14.3%) exact matches, in which:
73 unique CDR3
5 unique J



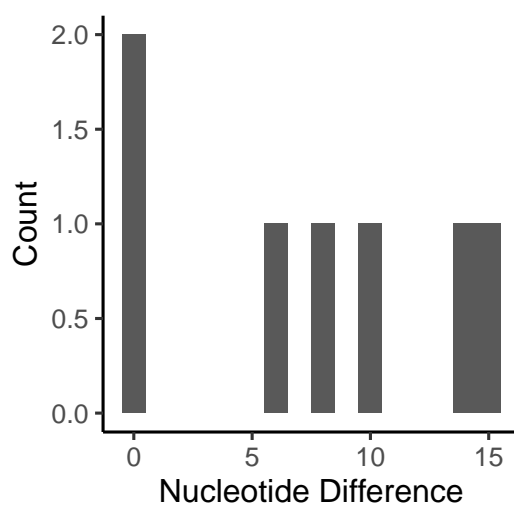
IGHV3-43D*03

74 sequences assigned
16 (21.6%) exact matches, in which:
16 unique CDR3
5 unique J



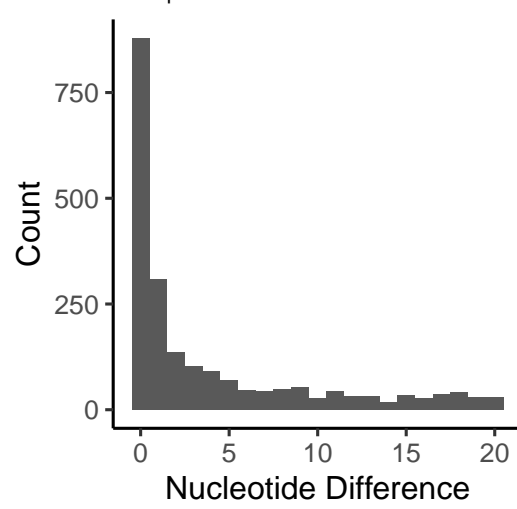
IGHV4-28*01

8 sequences assigned
2 (25%) exact matches, in which:
2 unique CDR3
2 unique J



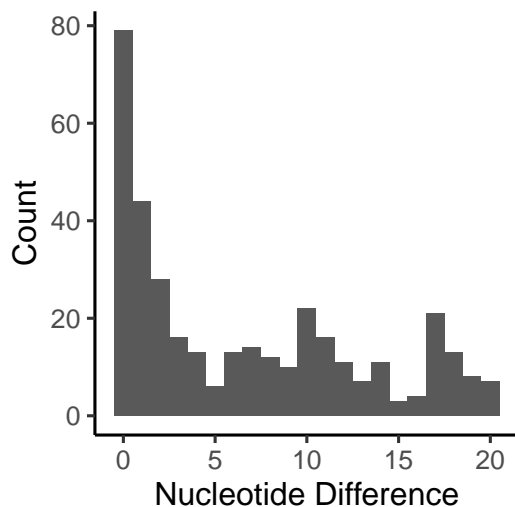
IGHV4-34*01

2560 sequences assigned
879 (34.3%) exact matches, in which:
827 unique CDR3
6 unique J



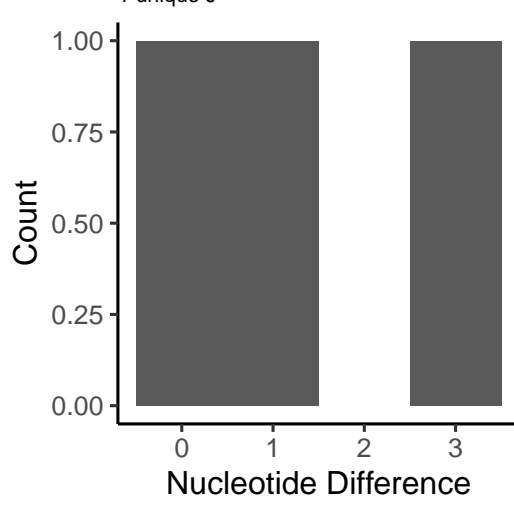
IGHV3-64D*09

455 sequences assigned
79 (17.4%) exact matches, in which:
74 unique CDR3
6 unique J



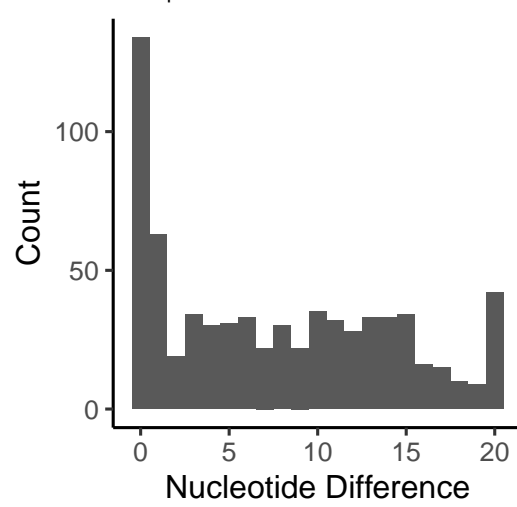
IGHV4-28*03

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



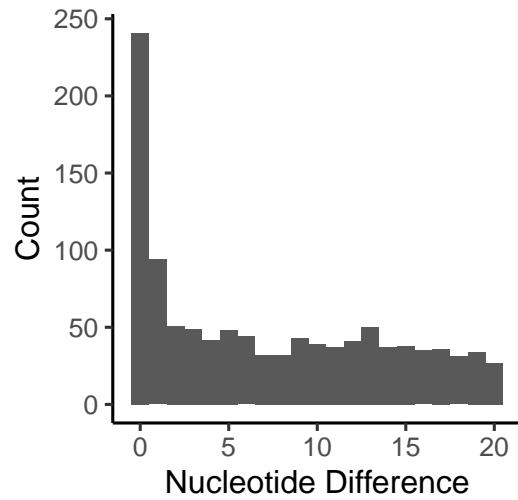
IGHV4-38-2*02

913 sequences assigned
134 (14.7%) exact matches, in which:
132 unique CDR3
6 unique J



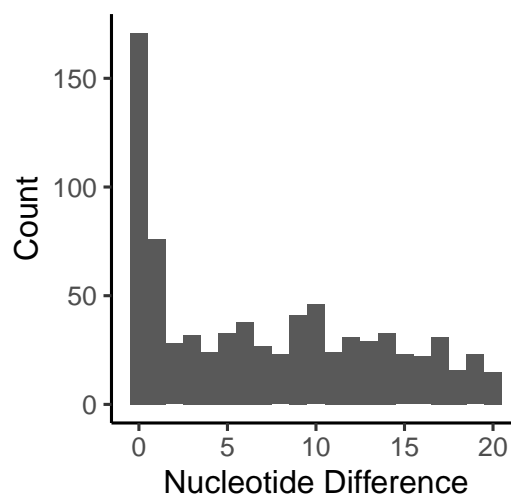
IGHV4-39*01

1490 sequences assigned
241 (16.2%) exact matches, in which:
238 unique CDR3
6 unique J



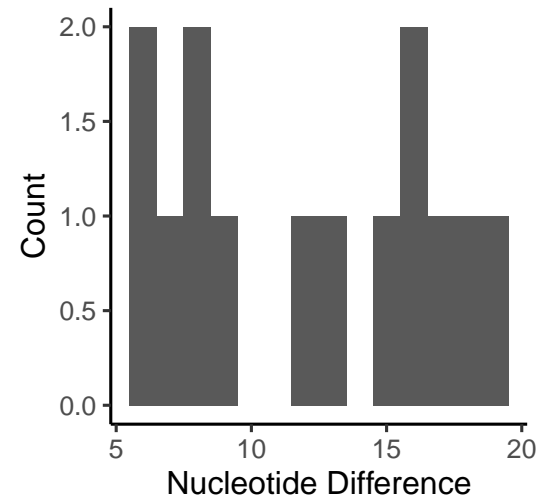
IGHV4-59*01

1137 sequences assigned
171 (15%) exact matches, in which:
170 unique CDR3
6 unique J



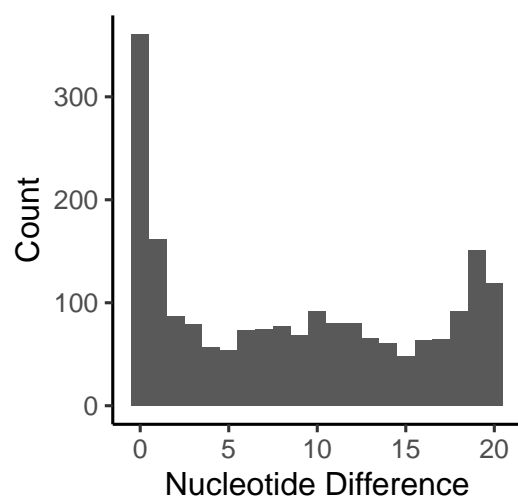
IGHV4/OR15-8*01

15 sequences assigned
No exact matches.



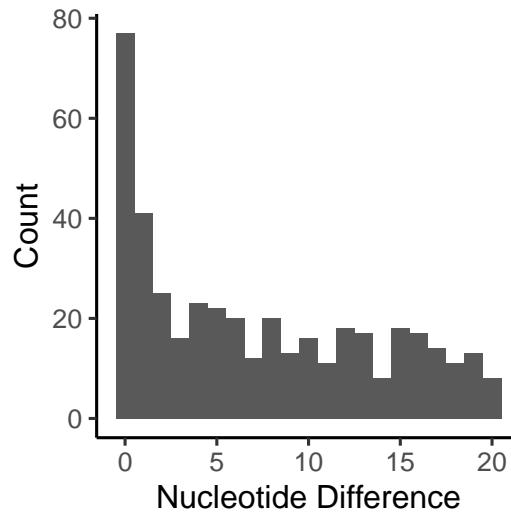
IGHV4-39*07

3126 sequences assigned
361 (11.5%) exact matches, in which:
352 unique CDR3
6 unique J



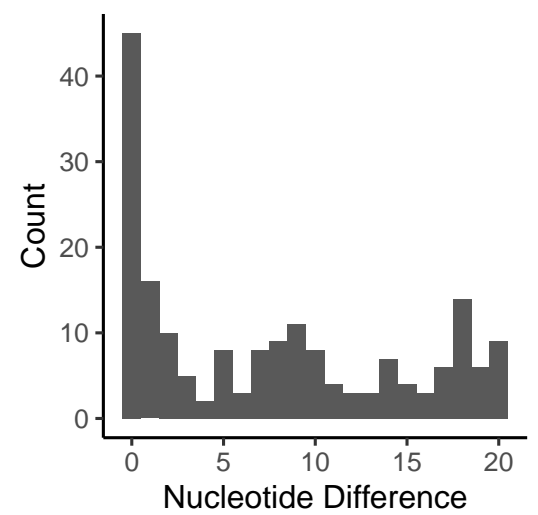
IGHV4-59*08

567 sequences assigned
77 (13.6%) exact matches, in which:
76 unique CDR3
6 unique J



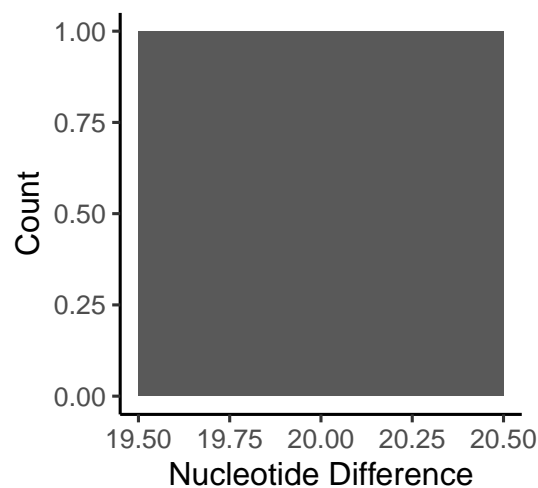
IGHV5-10-1*01

240 sequences assigned
45 (18.8%) exact matches, in which:
45 unique CDR3
6 unique J



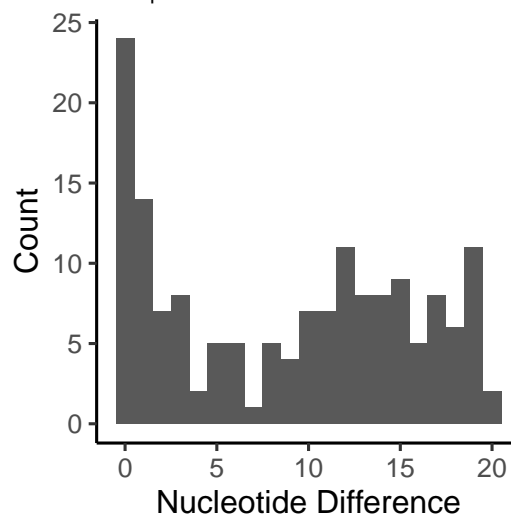
IGHV4-55*01

1 sequences assigned
No exact matches.



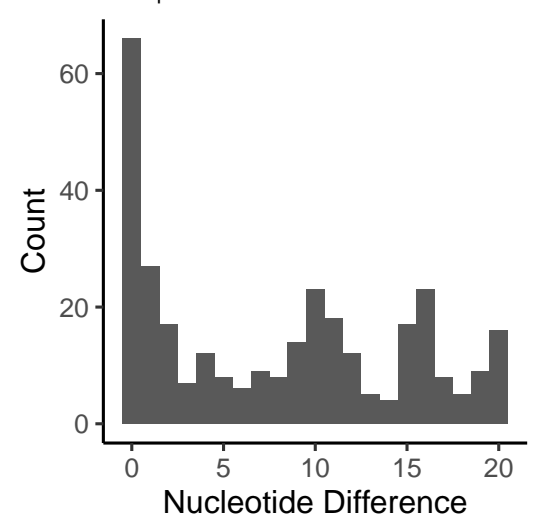
IGHV4-61*01

254 sequences assigned
24 (9.4%) exact matches, in which:
24 unique CDR3
5 unique J



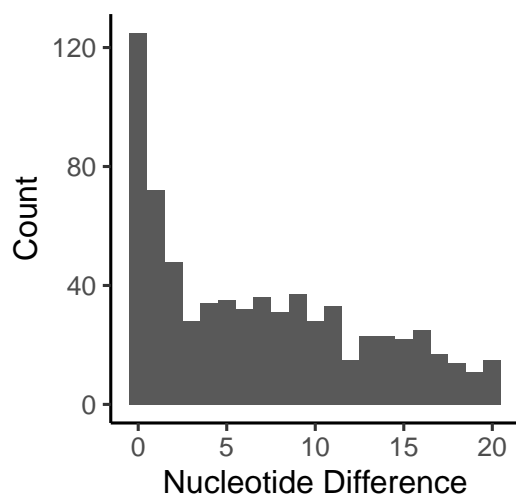
IGHV5-10-1*03

477 sequences assigned
66 (13.8%) exact matches, in which:
63 unique CDR3
6 unique J



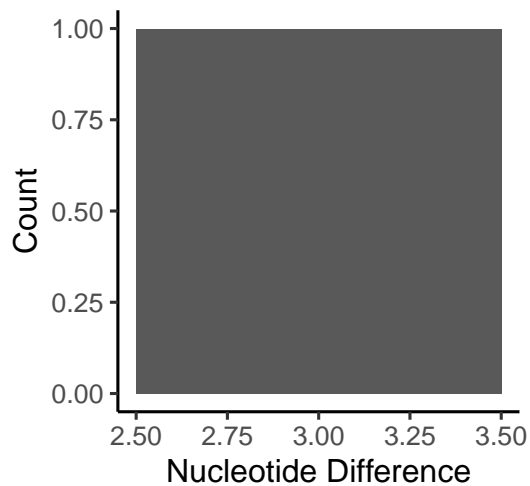
IGHV5–51*01

912 sequences assigned
125 (13.7%) exact matches, in which:
125 unique CDR3
6 unique J



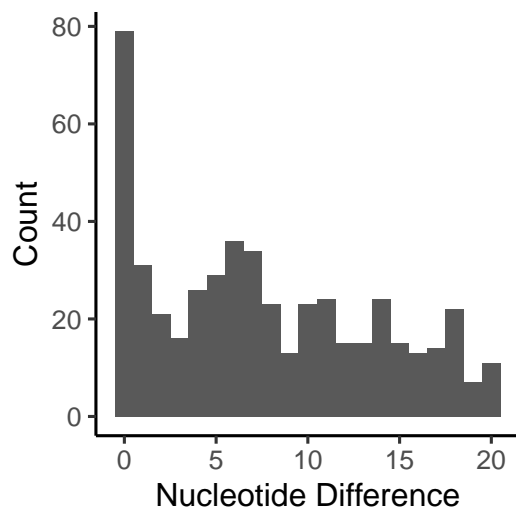
IGHV3/OR16–6*02

1 sequences assigned
No exact matches.



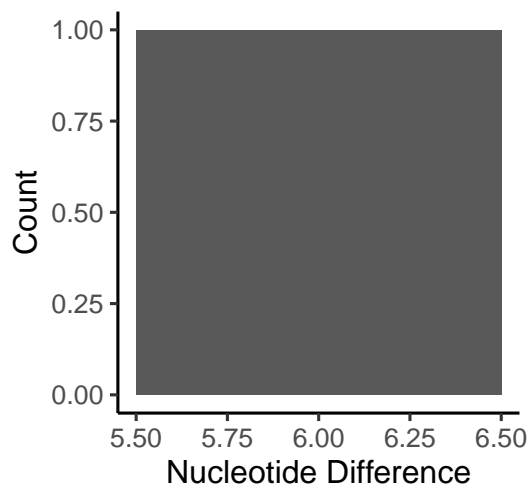
IGHV5–51*03

666 sequences assigned
79 (11.9%) exact matches, in which:
76 unique CDR3
6 unique J



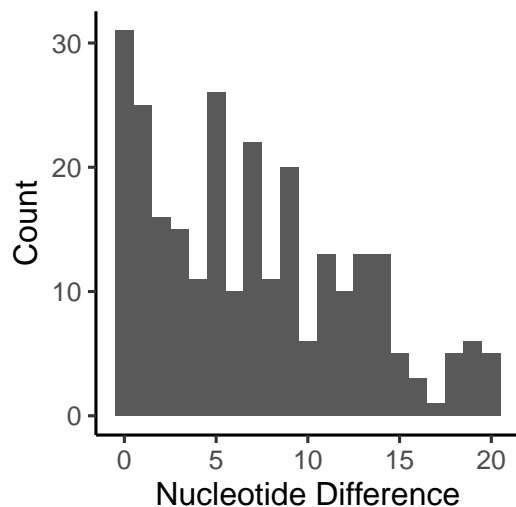
IGHV3/OR16–9*01

1 sequences assigned
No exact matches.



IGHV6–1*01

278 sequences assigned
31 (11.2%) exact matches, in which:
29 unique CDR3
5 unique J



IGHV1-69*08_C191T

