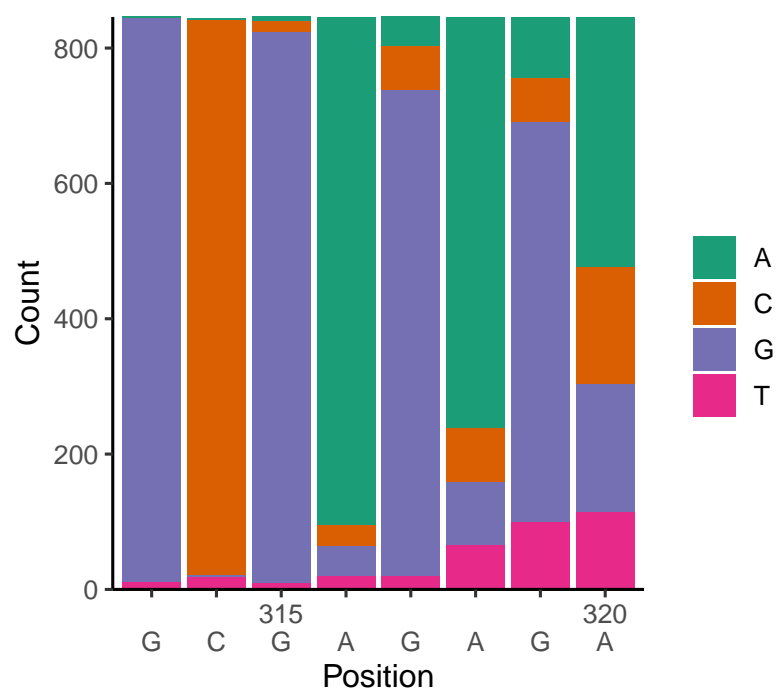
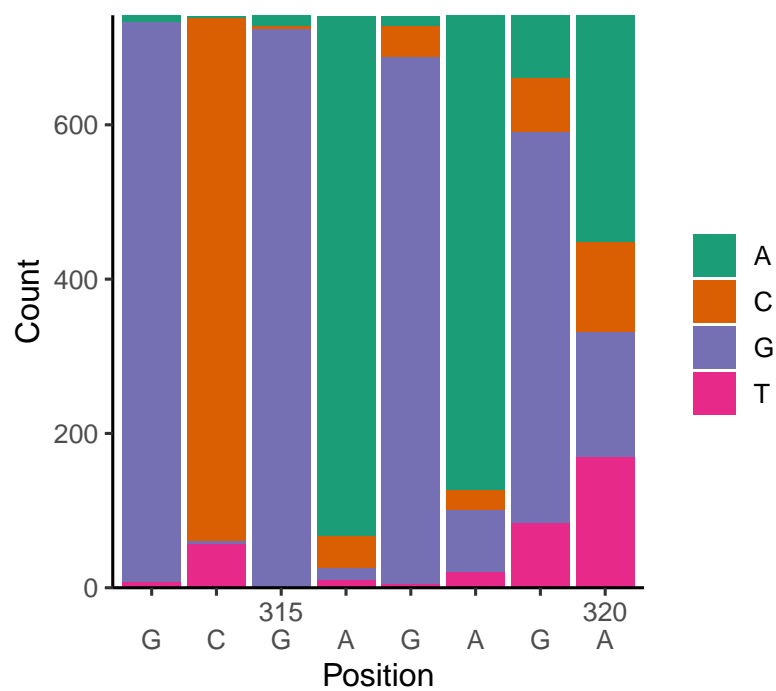


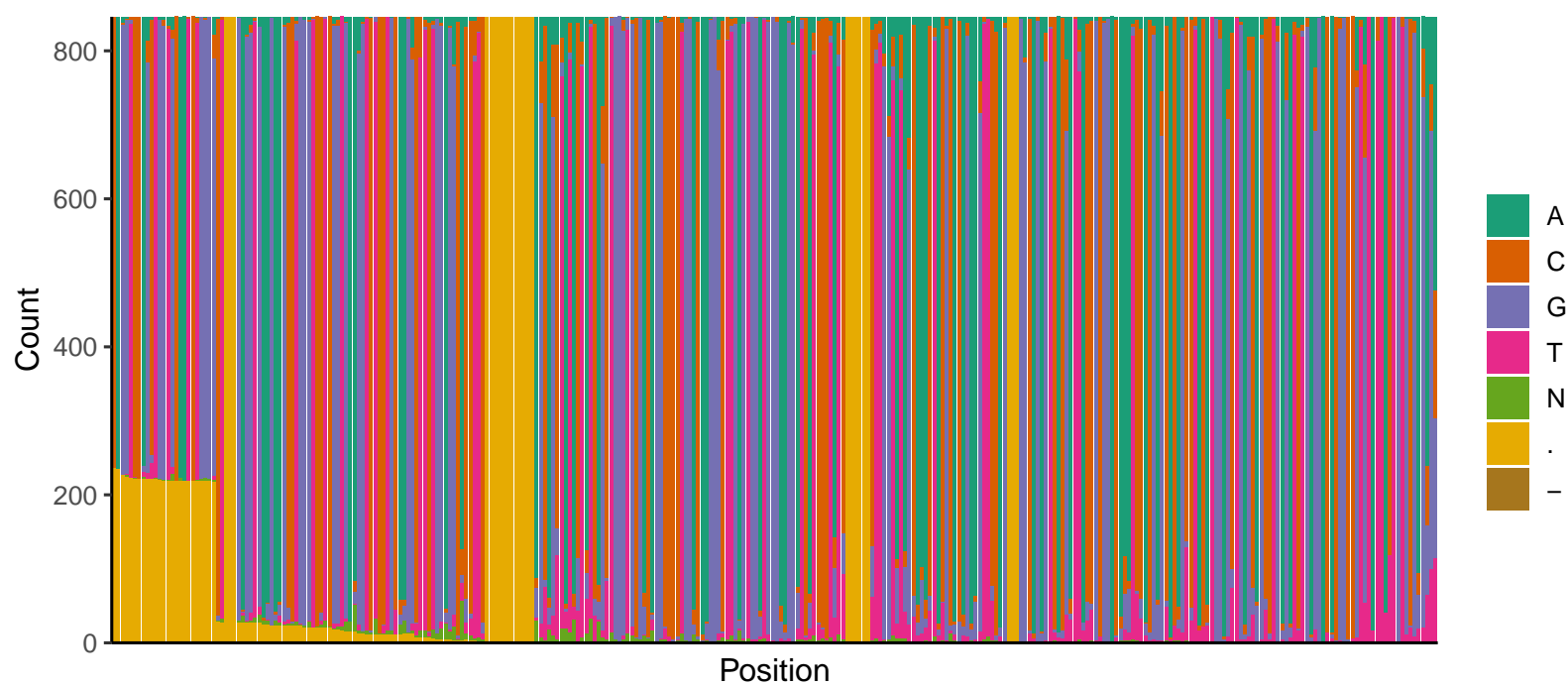
Gene IGHV1-69*08_C191T



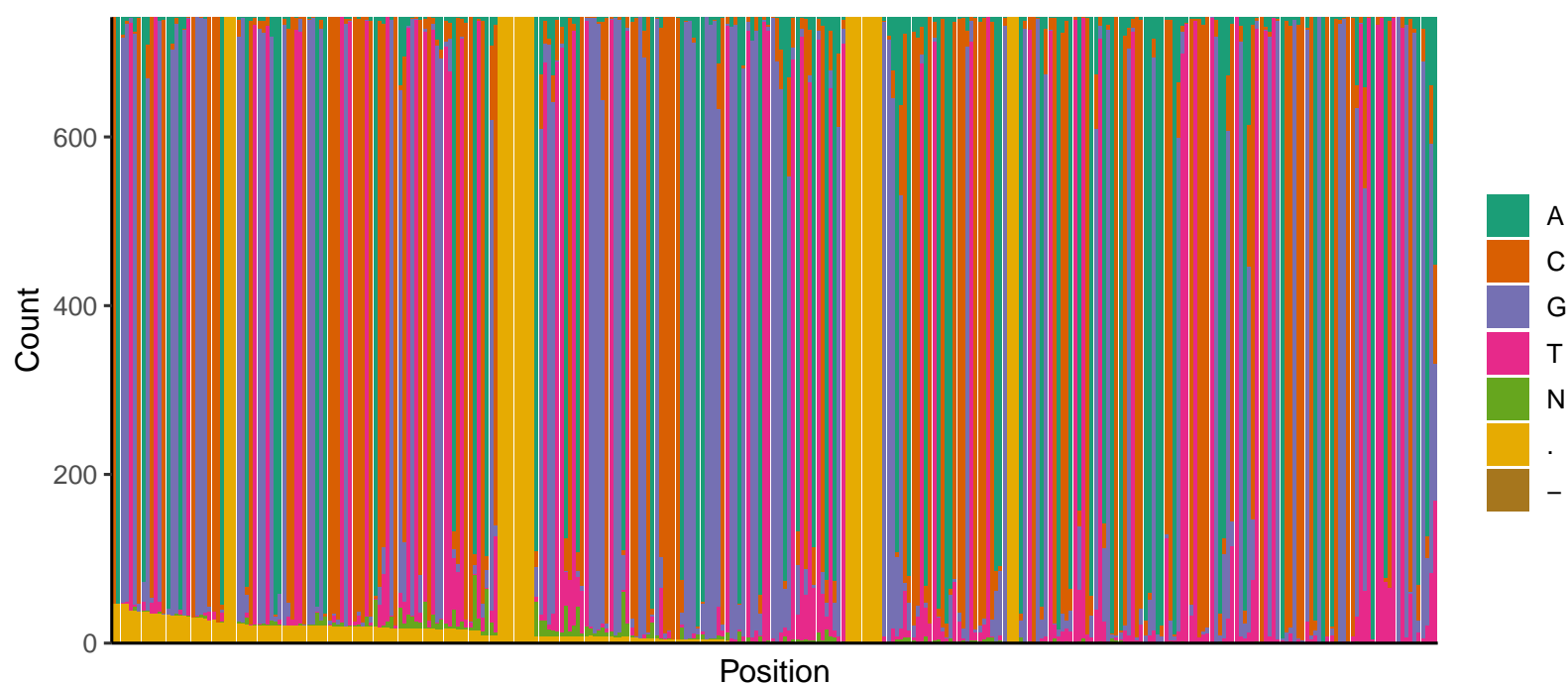
Gene IGHV4-38-2*02_A70G



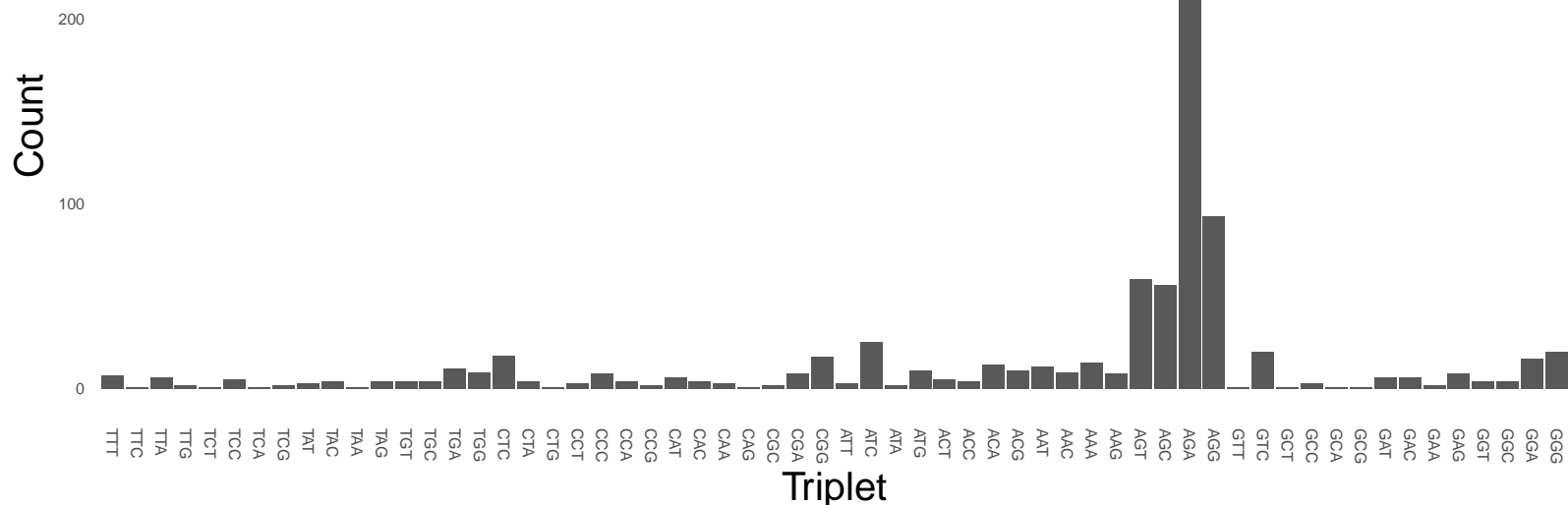
Gene IGHV1-69*08_C191T



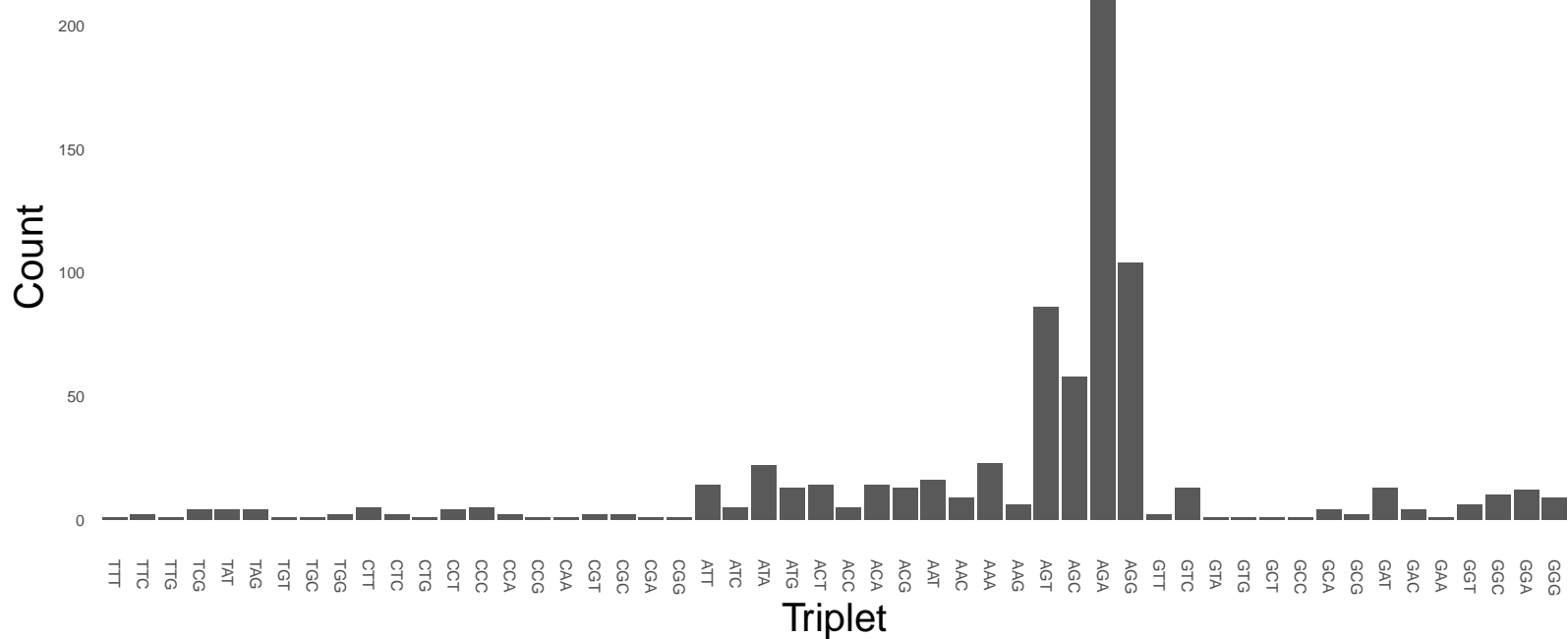
Gene IGHV4-38-2*02_A70G



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

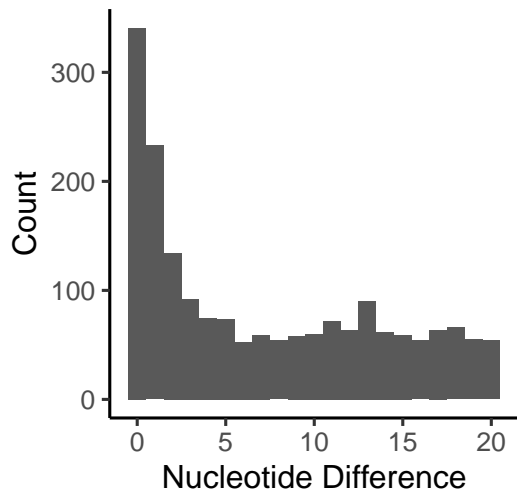


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



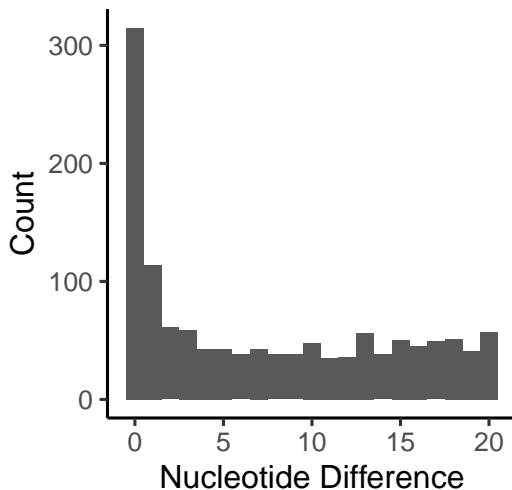
IGHV1-2*02

2899 sequences assigned
341 (11.8%) exact matches, in which:
340 unique CDR3
6 unique J



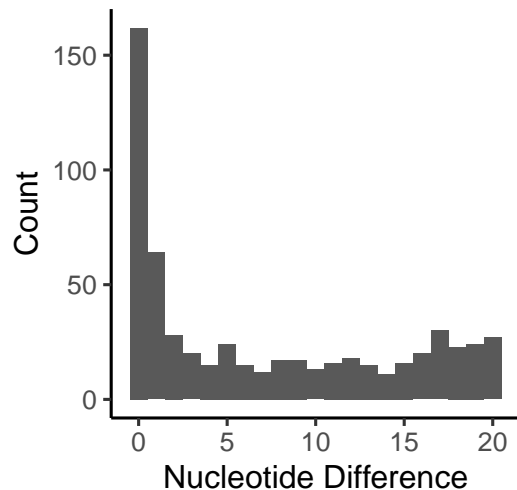
IGHV1-18*01

2078 sequences assigned
315 (15.2%) exact matches, in which:
312 unique CDR3
5 unique J



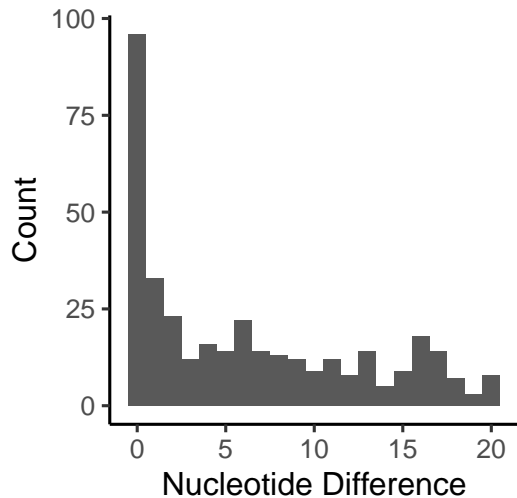
IGHV1-46*01

982 sequences assigned
162 (16.5%) exact matches, in which:
161 unique CDR3
6 unique J



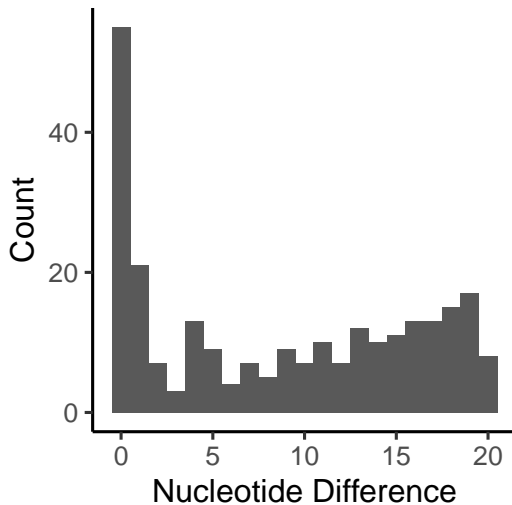
IGHV1-3*01

524 sequences assigned
96 (18.3%) exact matches, in which:
95 unique CDR3
6 unique J



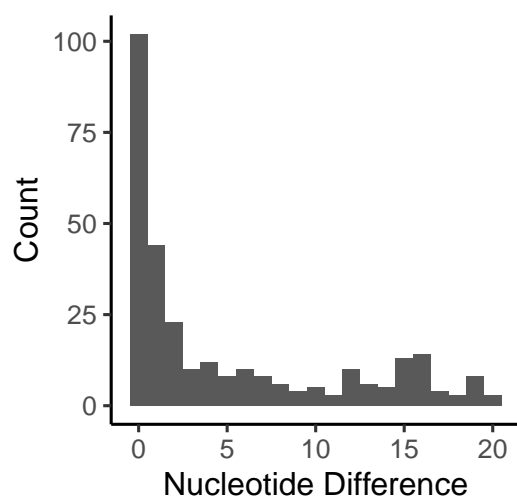
IGHV1-24*01

316 sequences assigned
55 (17.4%) exact matches, in which:
55 unique CDR3
6 unique J



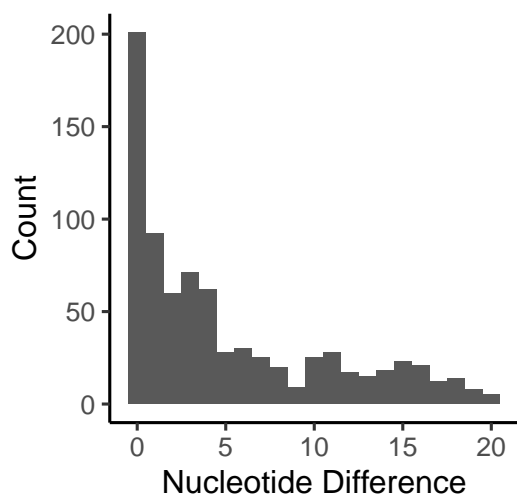
IGHV1-46*03

440 sequences assigned
102 (23.2%) exact matches, in which:
102 unique CDR3
5 unique J



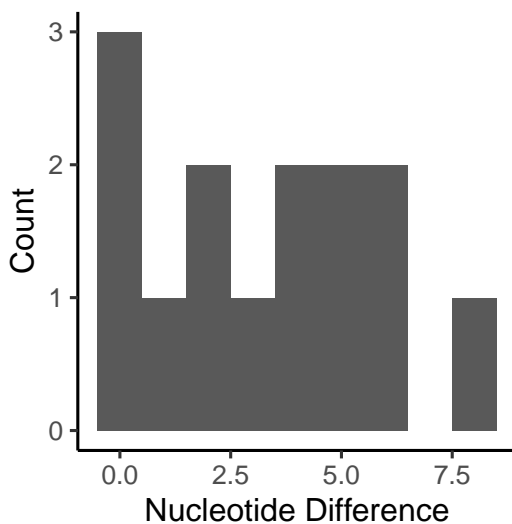
IGHV1-8*01

888 sequences assigned
201 (22.6%) exact matches, in which:
196 unique CDR3
6 unique J



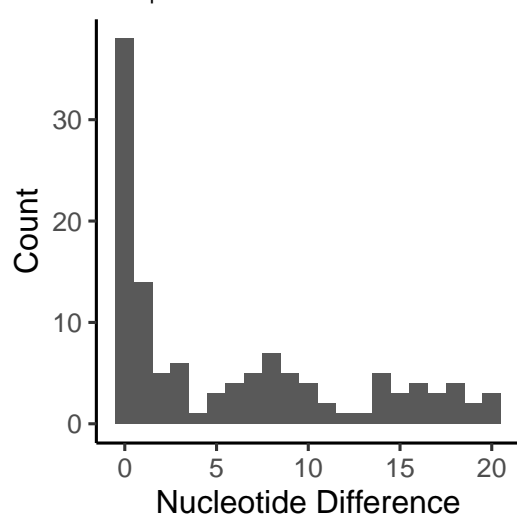
IGHV1-45*02

16 sequences assigned
3 (18.8%) exact matches, in which:
3 unique CDR3
2 unique J



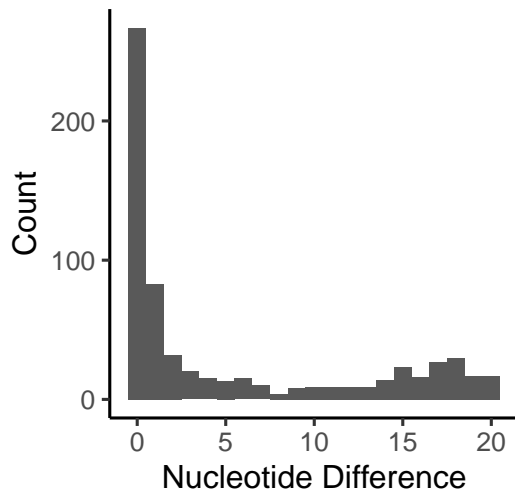
IGHV1-58*02

140 sequences assigned
38 (27.1%) exact matches, in which:
38 unique CDR3
5 unique J



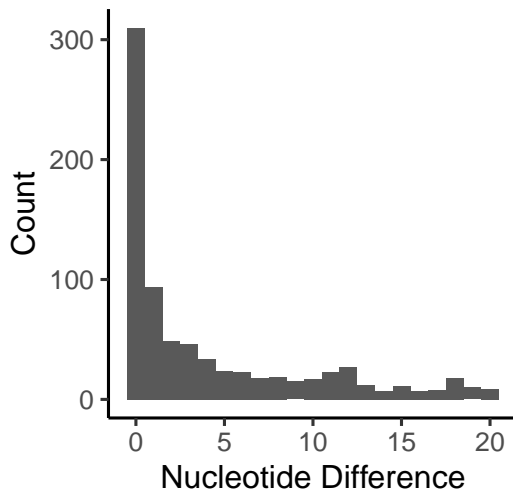
IGHV1–69*04

1100 sequences assigned
267 (24.3%) exact matches, in which:
262 unique CDR3
6 unique J



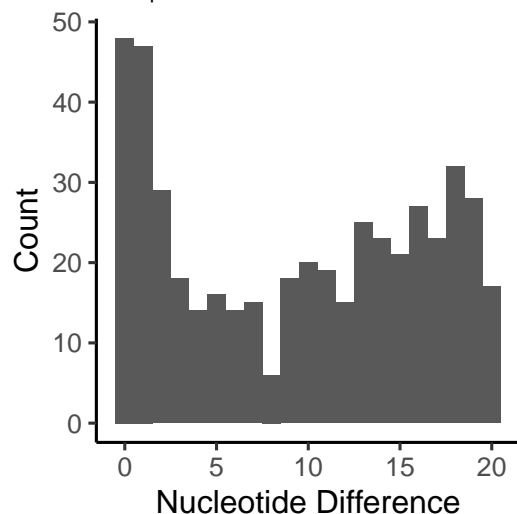
IGHV2–26*01

848 sequences assigned
310 (36.6%) exact matches, in which:
307 unique CDR3
6 unique J



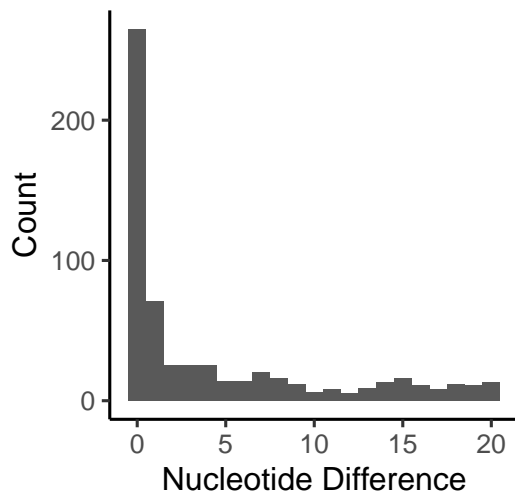
IGHV3–7*01

652 sequences assigned
48 (7.4%) exact matches, in which:
48 unique CDR3
5 unique J



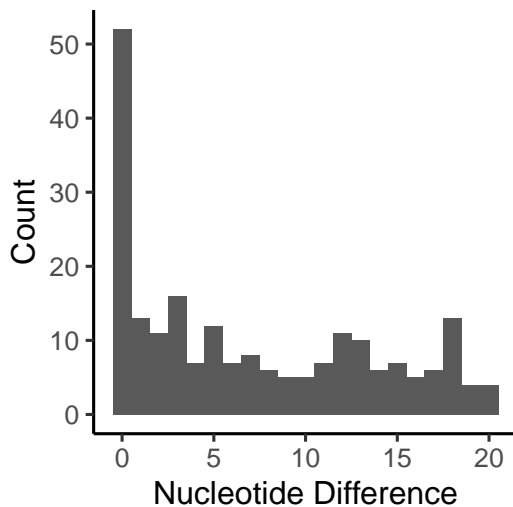
IGHV1–69*08_C191T

846 sequences assigned
265 (31.3%) exact matches, in which:
262 unique CDR3
6 unique J



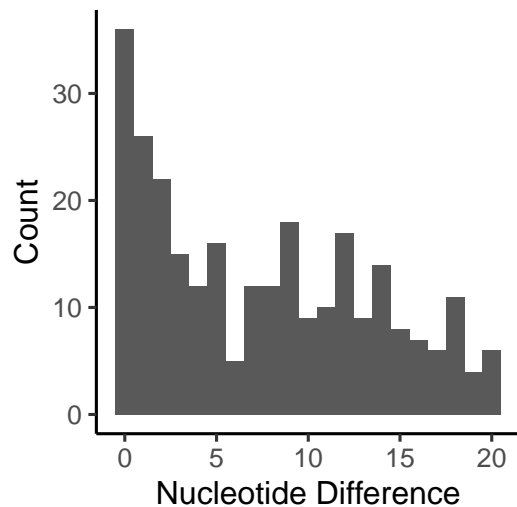
IGHV2–70*15

316 sequences assigned
52 (16.5%) exact matches, in which:
51 unique CDR3
4 unique J



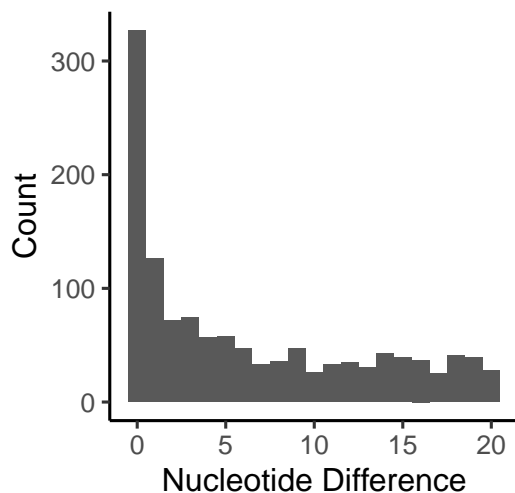
IGHV3–7*04

343 sequences assigned
36 (10.5%) exact matches, in which:
36 unique CDR3
4 unique J



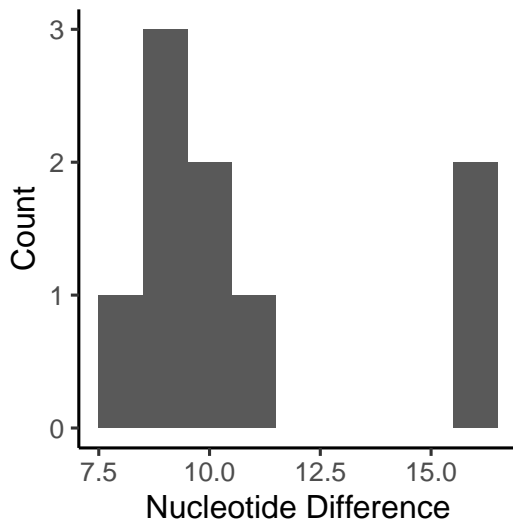
IGHV2–5*02

1516 sequences assigned
327 (21.6%) exact matches, in which:
326 unique CDR3
6 unique J



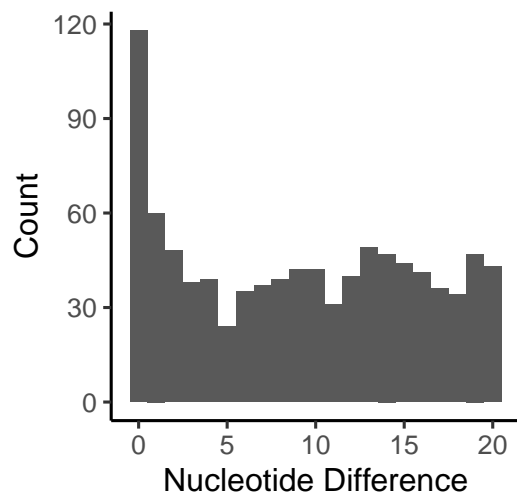
IGHV2–70D*04

11 sequences assigned
No exact matches.



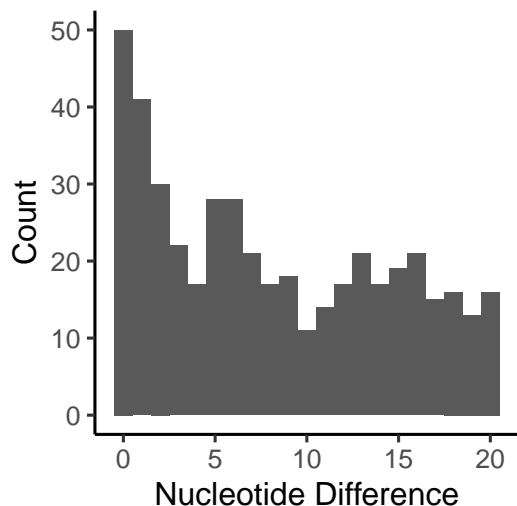
IGHV3–9*01

1442 sequences assigned
118 (8.2%) exact matches, in which:
117 unique CDR3
6 unique J



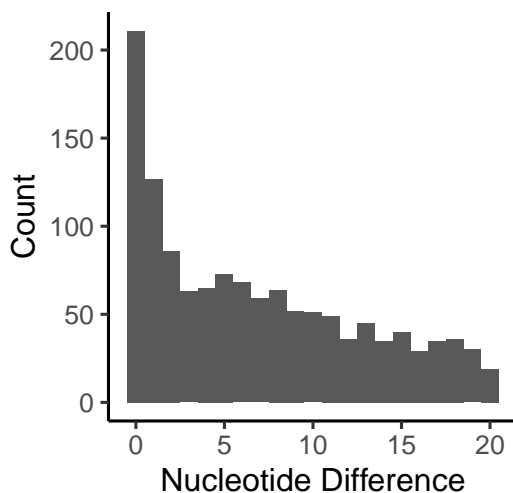
IGHV3-11*04

653 sequences assigned
50 (7.7%) exact matches, in which:
50 unique CDR3
6 unique J



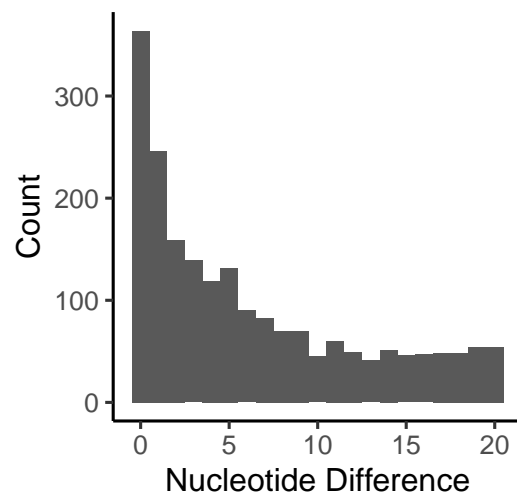
IGHV3-15*01

1617 sequences assigned
211 (13%) exact matches, in which:
209 unique CDR3
6 unique J



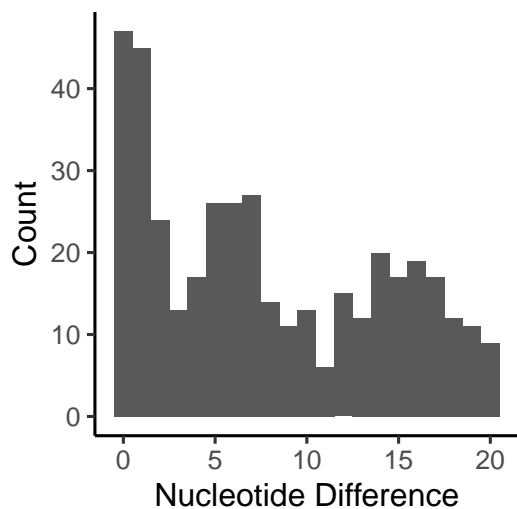
IGHV3-21*01

2524 sequences assigned
364 (14.4%) exact matches, in which:
360 unique CDR3
6 unique J



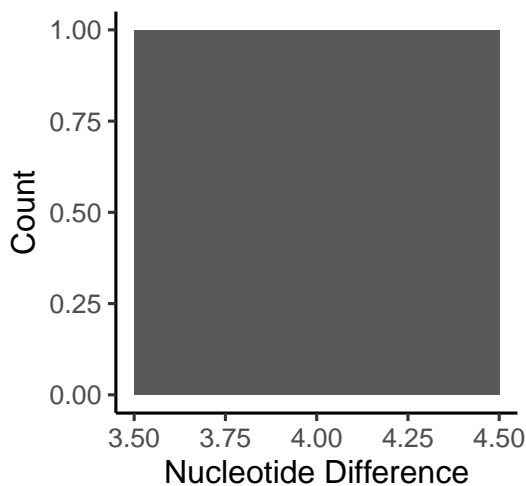
IGHV3-11*06

546 sequences assigned
47 (8.6%) exact matches, in which:
47 unique CDR3
4 unique J



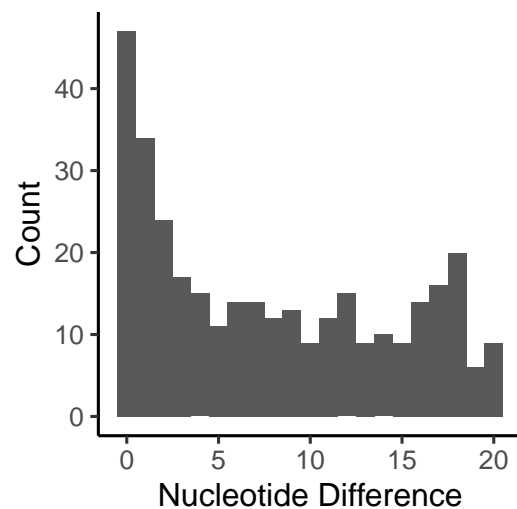
IGHV3-19*01

1 sequences assigned
No exact matches.



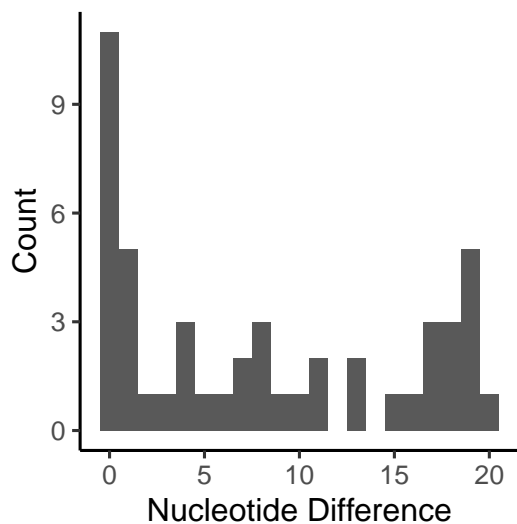
IGHV3-23*03

549 sequences assigned
47 (8.6%) exact matches, in which:
47 unique CDR3
6 unique J



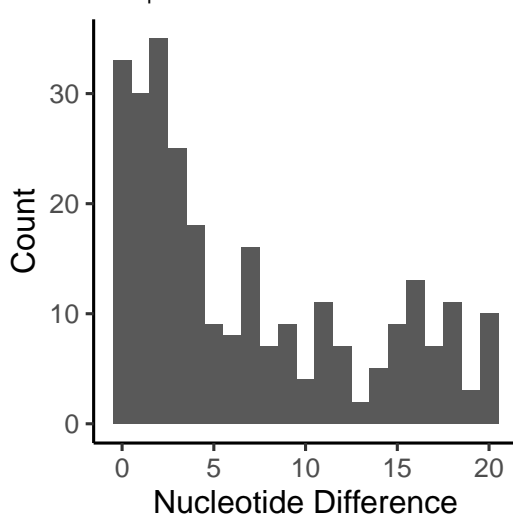
IGHV3-13*05

59 sequences assigned
11 (18.6%) exact matches, in which:
11 unique CDR3
3 unique J



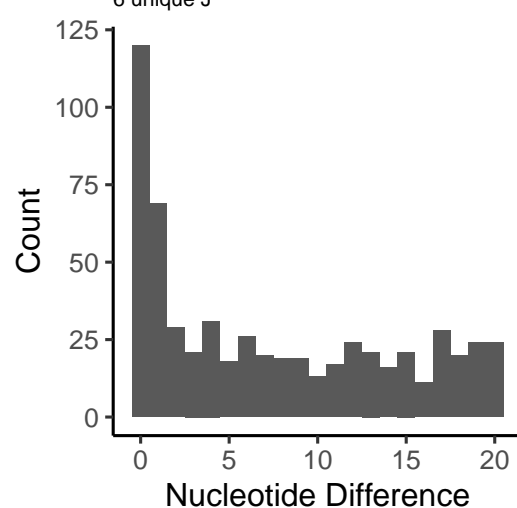
IGHV3-20*04

371 sequences assigned
33 (8.9%) exact matches, in which:
33 unique CDR3
5 unique J



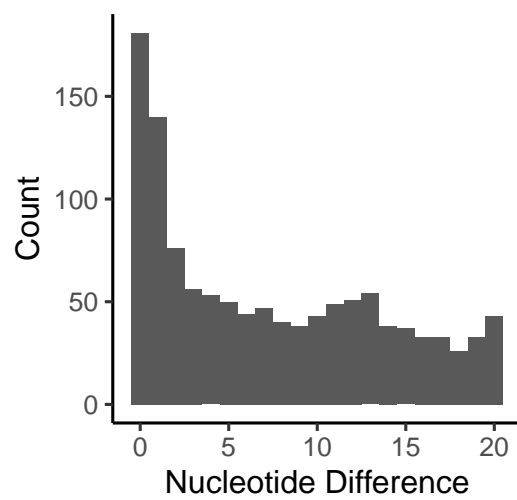
IGHV3-23*04

919 sequences assigned
120 (13.1%) exact matches, in which:
120 unique CDR3
6 unique J



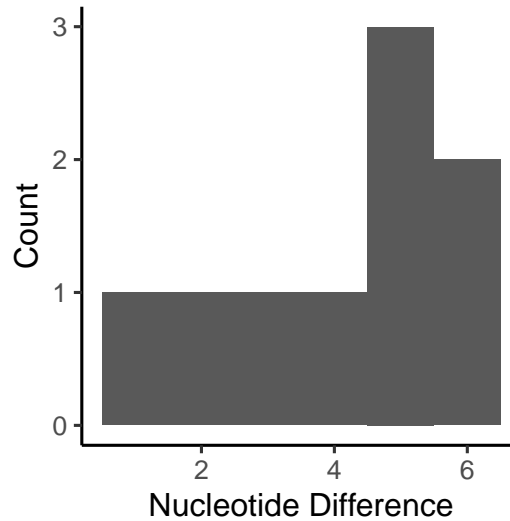
IGHV3-30-3*01

1648 sequences assigned
181 (11%) exact matches, in which:
181 unique CDR3
6 unique J



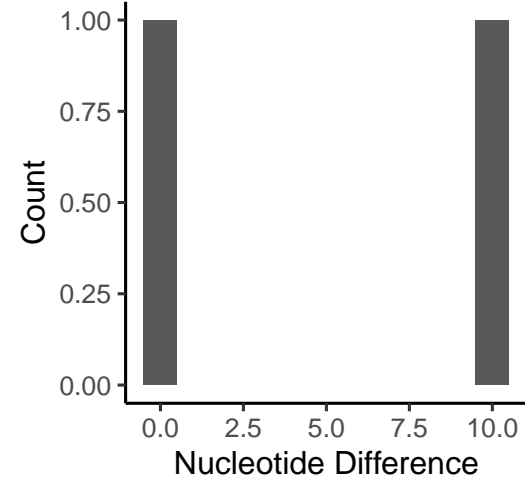
IGHV3-35*01

9 sequences assigned
No exact matches.



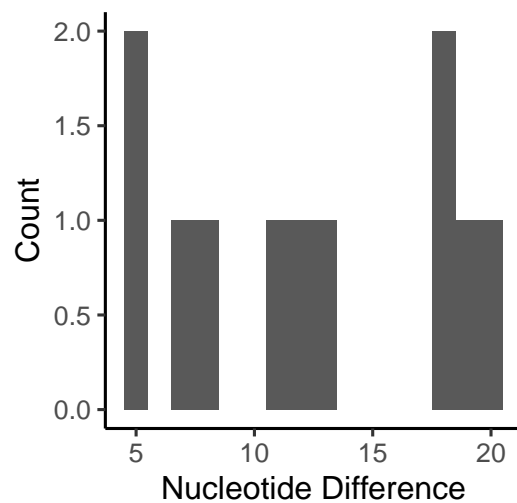
IGHV3-47*02

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



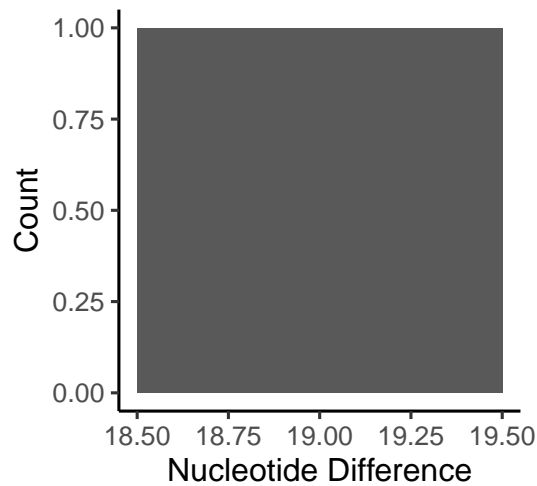
IGHV3-30-3*02

34 sequences assigned
No exact matches.



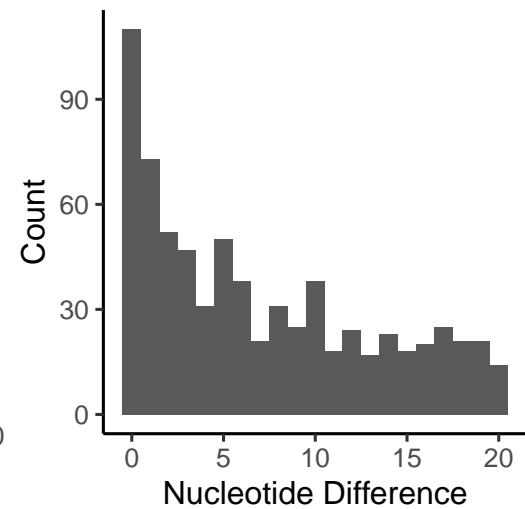
IGHV3-41*02

1 sequences assigned
No exact matches.



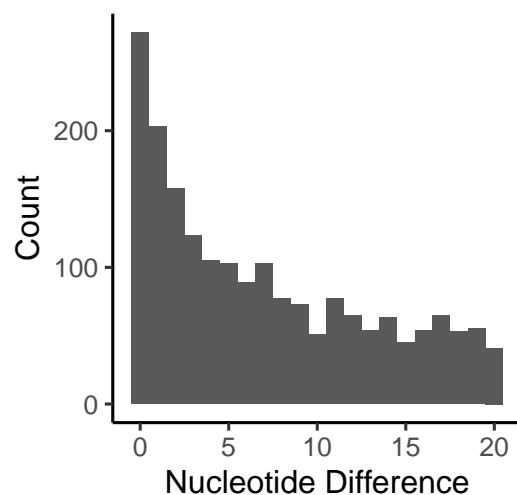
IGHV3-48*01

933 sequences assigned
110 (11.8%) exact matches, in which:
108 unique CDR3
5 unique J



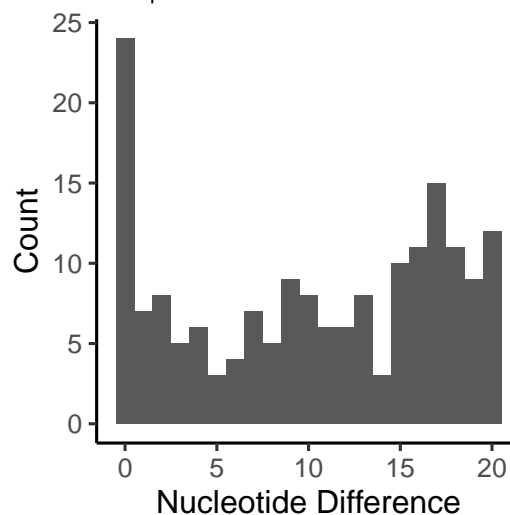
IGHV3-33*01

2504 sequences assigned
272 (10.9%) exact matches, in which:
268 unique CDR3
6 unique J



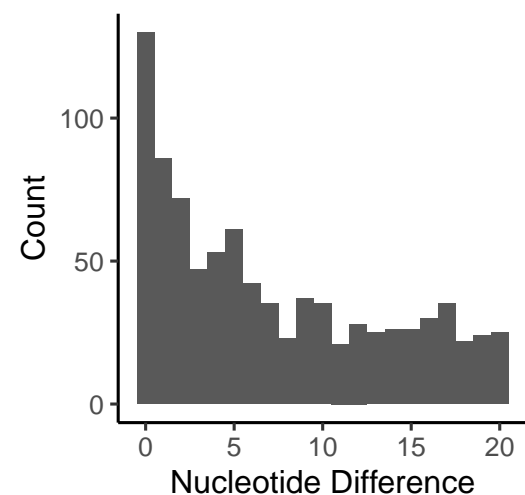
IGHV3-43*01

304 sequences assigned
24 (7.9%) exact matches, in which:
24 unique CDR3
4 unique J



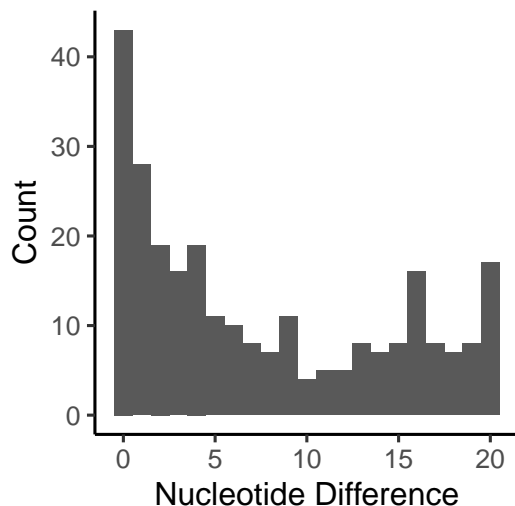
IGHV3-48*03

1183 sequences assigned
130 (11%) exact matches, in which:
129 unique CDR3
6 unique J



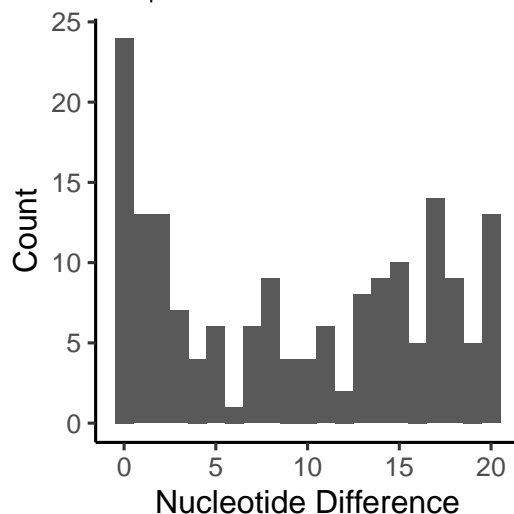
IGHV3-49*03

428 sequences assigned
43 (10%) exact matches, in which:
43 unique CDR3
4 unique J



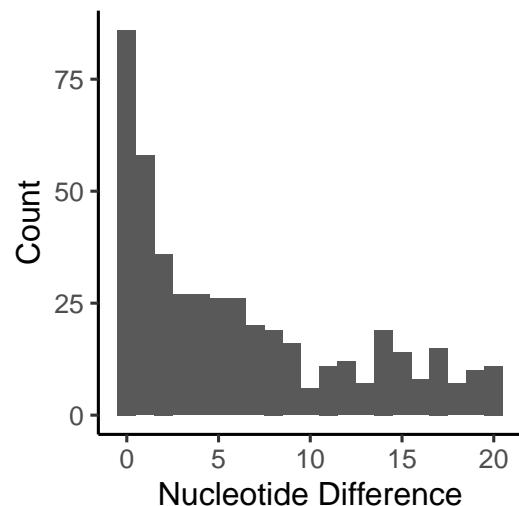
IGHV3-53*02

295 sequences assigned
24 (8.1%) exact matches, in which:
24 unique CDR3
4 unique J



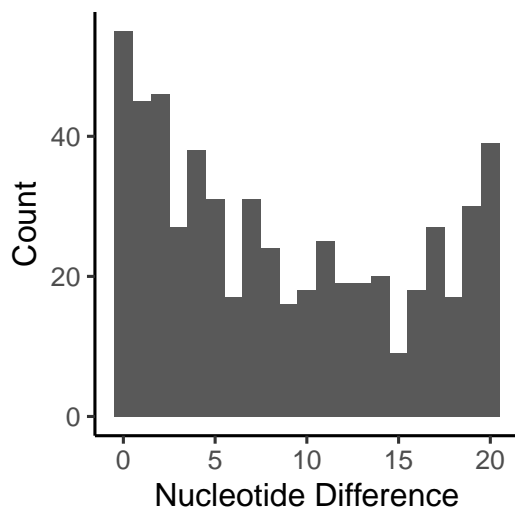
IGHV3-66*02

634 sequences assigned
86 (13.6%) exact matches, in which:
85 unique CDR3
5 unique J



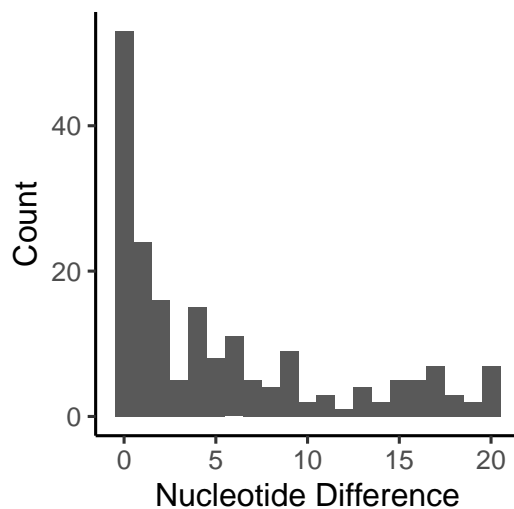
IGHV3-49*04

842 sequences assigned
55 (6.5%) exact matches, in which:
53 unique CDR3
6 unique J



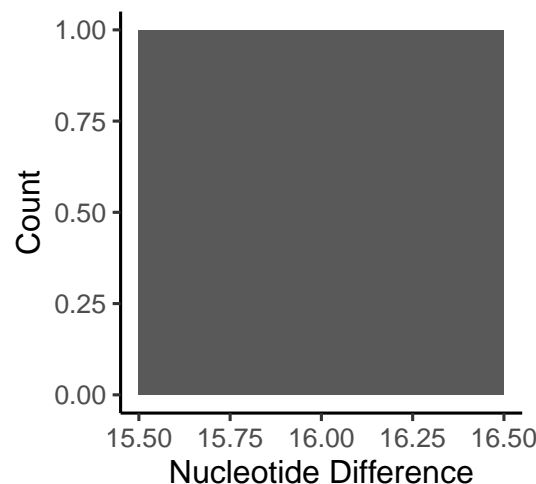
IGHV3-64*01

261 sequences assigned
53 (20.3%) exact matches, in which:
53 unique CDR3
6 unique J



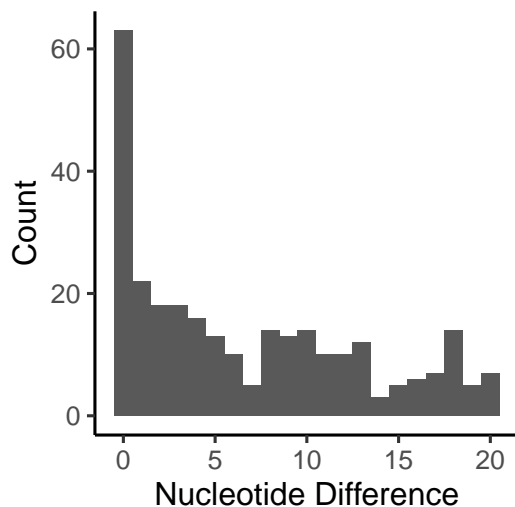
IGHV3-69-1*02

1 sequences assigned
No exact matches.



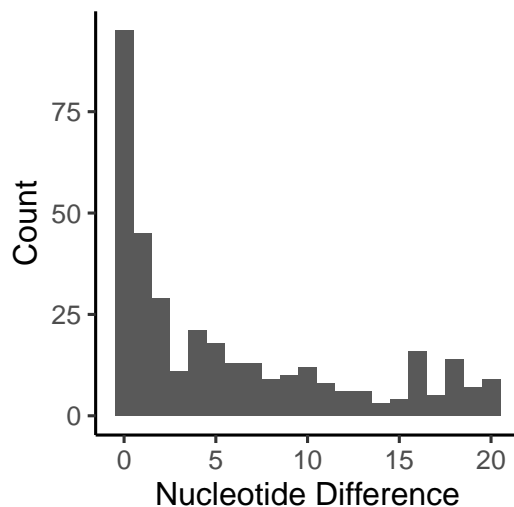
IGHV3-53*01

452 sequences assigned
63 (13.9%) exact matches, in which:
63 unique CDR3
6 unique J



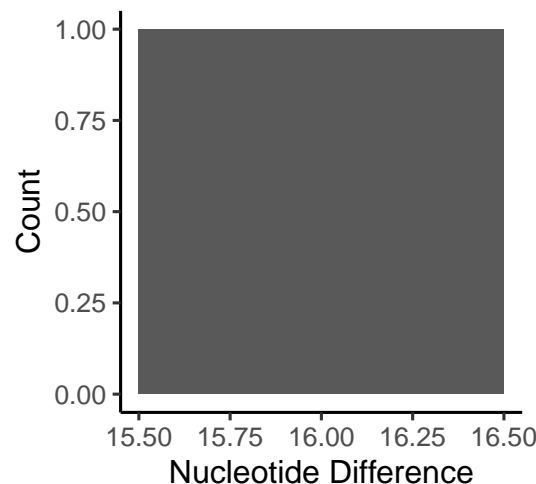
IGHV3-66*01

515 sequences assigned
95 (18.4%) exact matches, in which:
95 unique CDR3
6 unique J



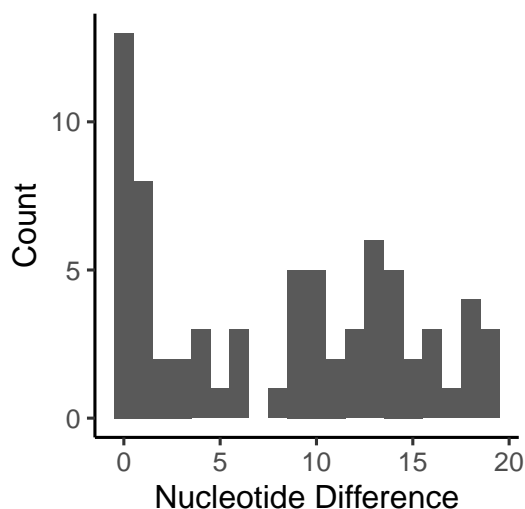
IGHV3-71*03

1 sequences assigned
No exact matches.



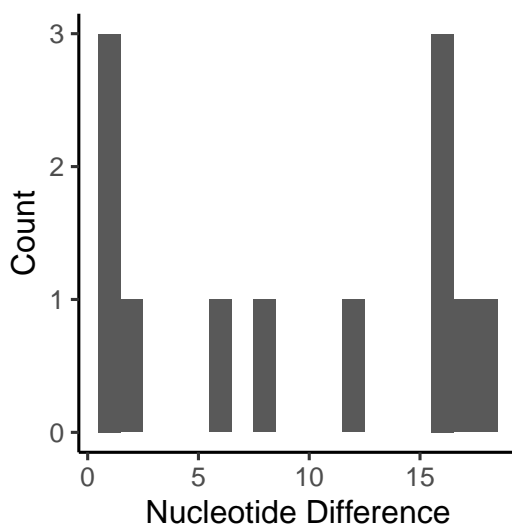
IGHV3-72*01

101 sequences assigned
13 (12.9%) exact matches, in which:
13 unique CDR3
4 unique J



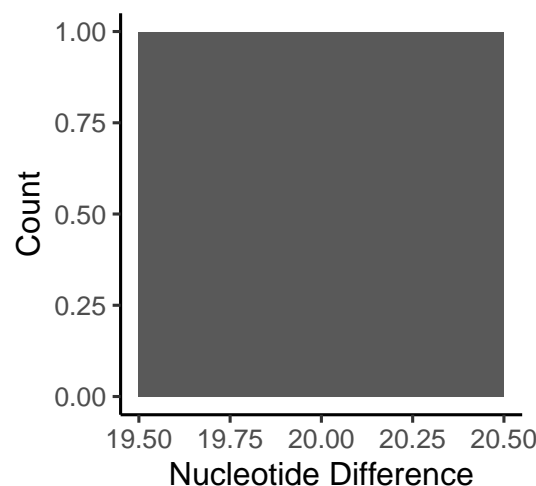
IGHV3-43D*04

18 sequences assigned
No exact matches.



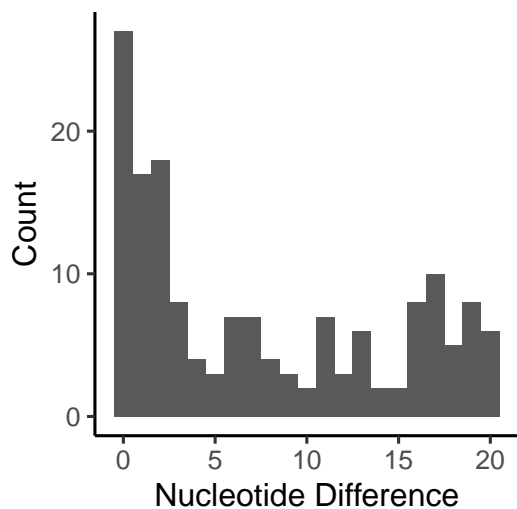
IGHV4-28*01

4 sequences assigned
No exact matches.



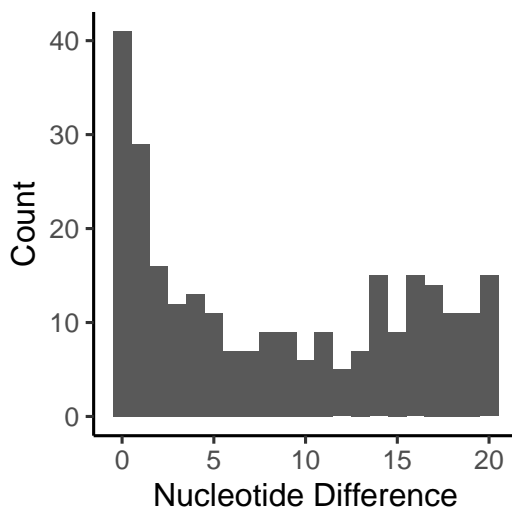
IGHV3-73*01

191 sequences assigned
27 (14.1%) exact matches, in which:
27 unique CDR3
5 unique J



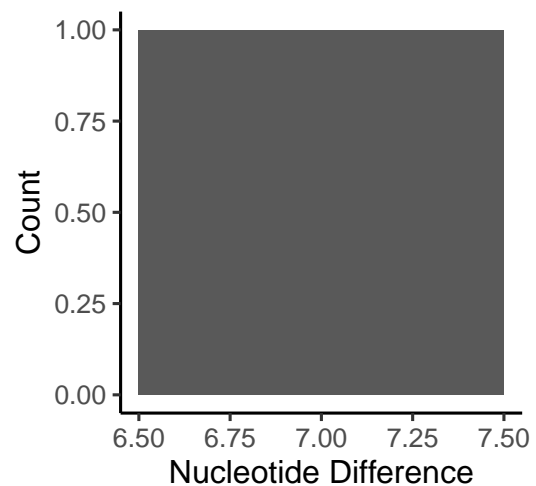
IGHV3-64D*06

425 sequences assigned
41 (9.6%) exact matches, in which:
41 unique CDR3
4 unique J



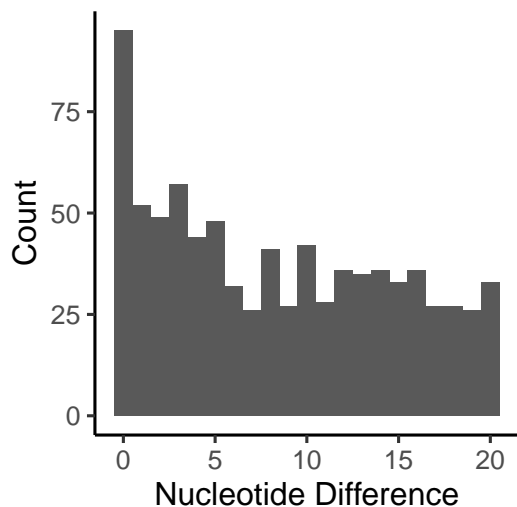
IGHV4-28*03

1 sequences assigned
No exact matches.



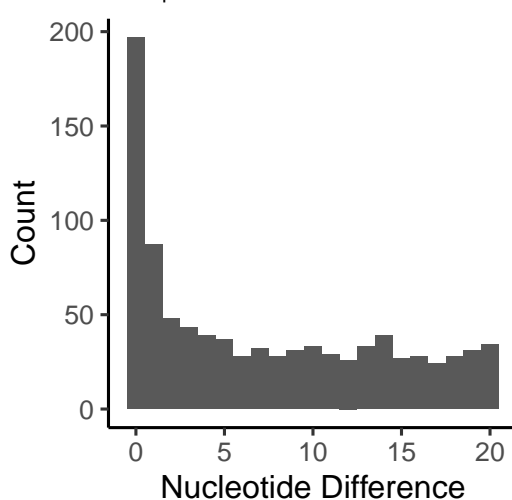
IGHV3-74*01

1209 sequences assigned
95 (7.9%) exact matches, in which:
94 unique CDR3
6 unique J



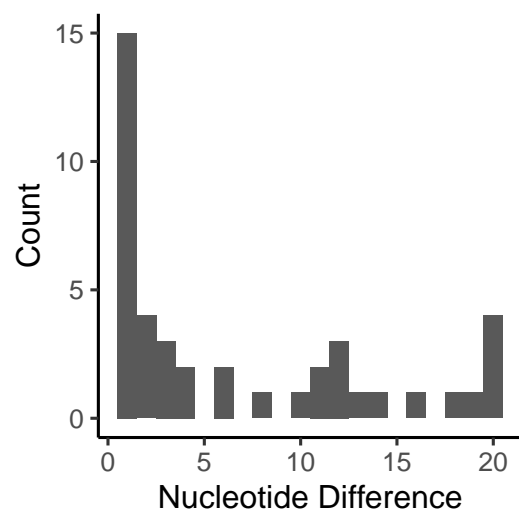
IGHV4-4*07

1322 sequences assigned
197 (14.9%) exact matches, in which:
196 unique CDR3
6 unique J



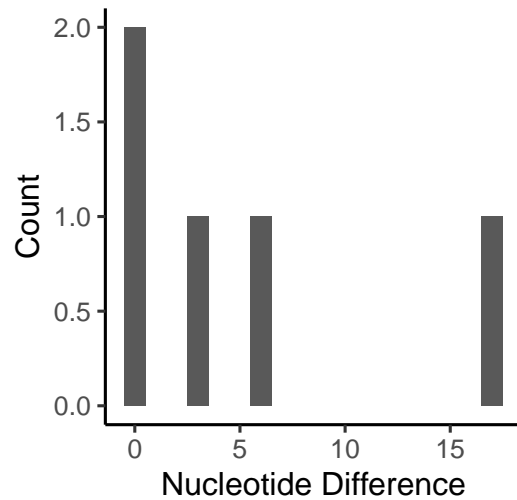
IGHV4-30-2*01

57 sequences assigned
No exact matches.



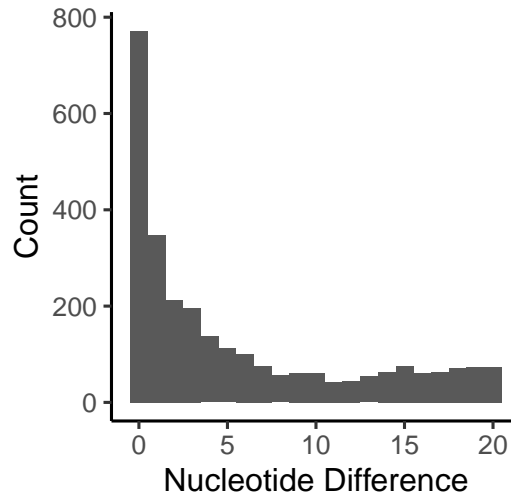
IGHV4-30-2*05

5 sequences assigned
2 (40%) exact matches, in which:
2 unique CDR3
1 unique J



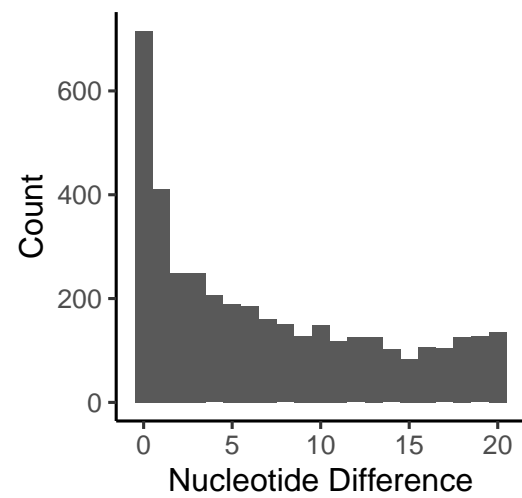
IGHV4-34*01

3297 sequences assigned
772 (23.4%) exact matches, in which:
766 unique CDR3
6 unique J



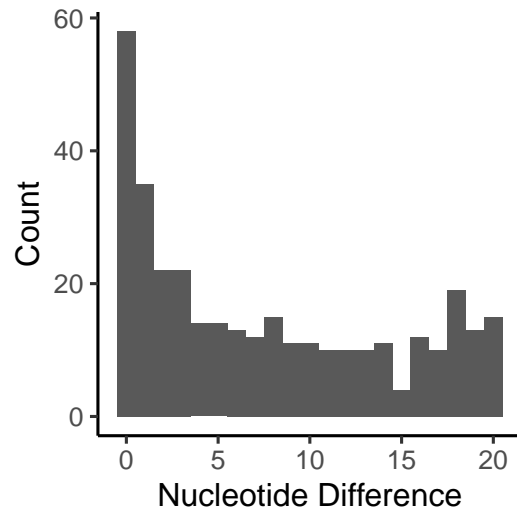
IGHV4-39*01

5798 sequences assigned
716 (12.3%) exact matches, in which:
712 unique CDR3
6 unique J



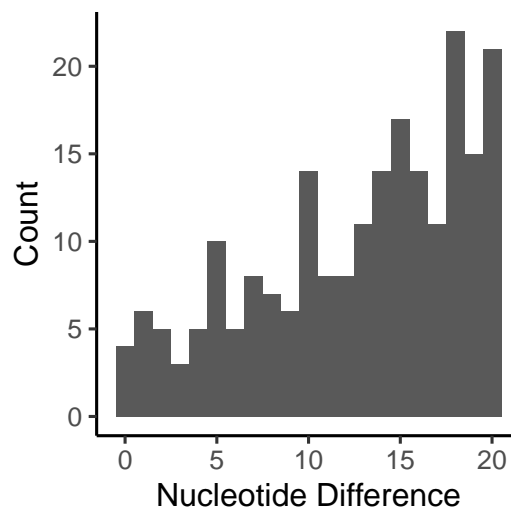
IGHV4-30-4*08

575 sequences assigned
58 (10.1%) exact matches, in which:
58 unique CDR3
5 unique J



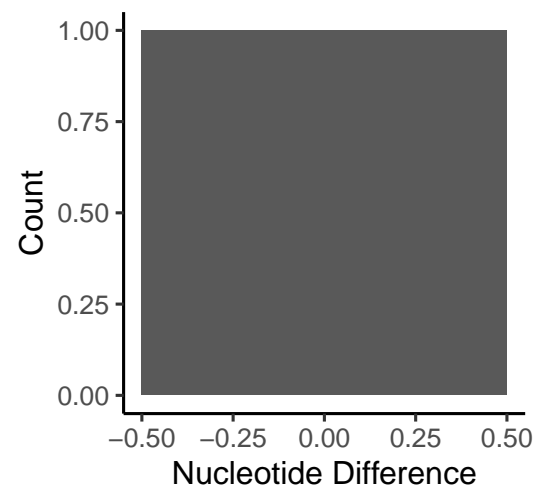
IGHV4-34*02

575 sequences assigned
4 (0.7%) exact matches, in which:
4 unique CDR3
3 unique J



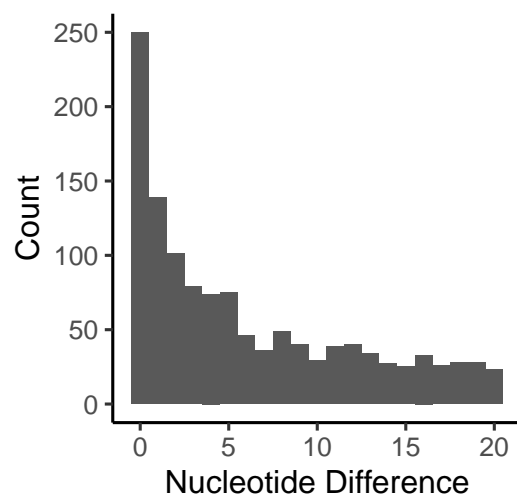
IGHV4-55*01

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



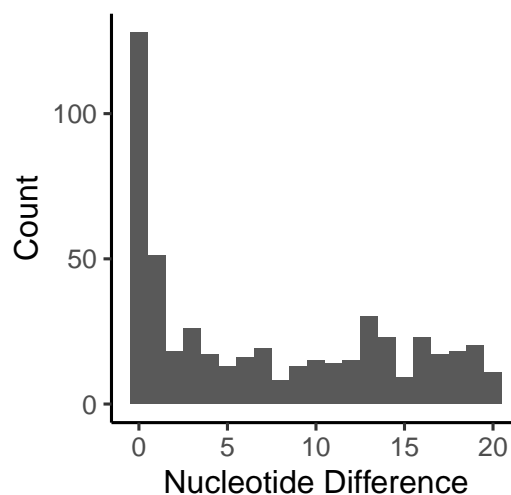
IGHV4-31*03

1599 sequences assigned
250 (15.6%) exact matches, in which:
249 unique CDR3
6 unique J



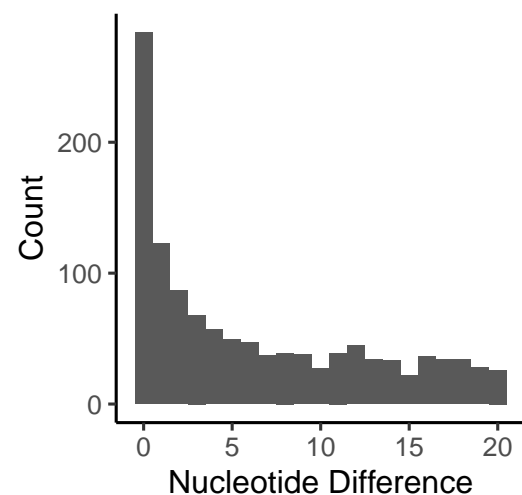
IGHV4-38-2*02_A70G

742 sequences assigned
128 (17.3%) exact matches, in which:
128 unique CDR3
6 unique J



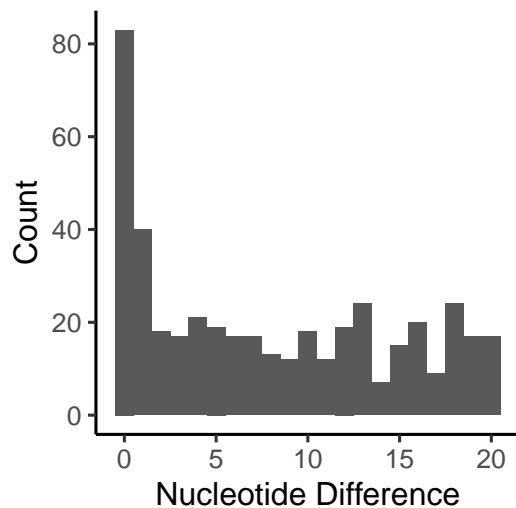
IGHV4-59*01

1697 sequences assigned
284 (16.7%) exact matches, in which:
283 unique CDR3
6 unique J



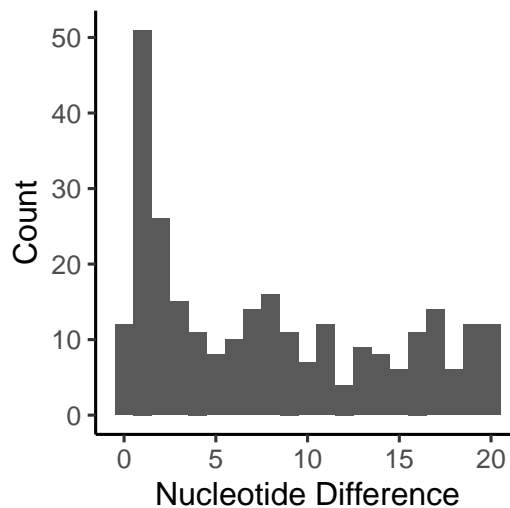
IGHV4-59*08

669 sequences assigned
83 (12.4%) exact matches, in which:
82 unique CDR3
6 unique J



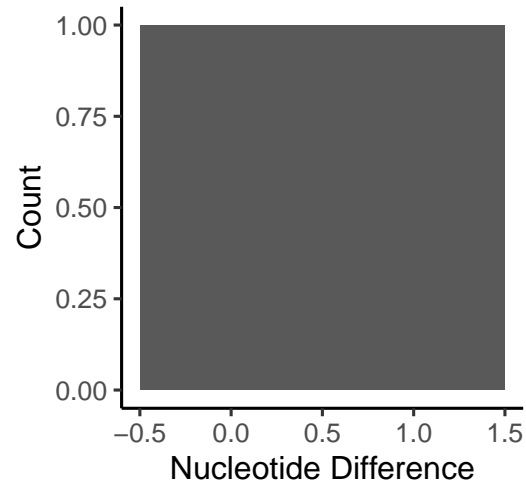
IGHV5-51*01

377 sequences assigned
12 (3.2%) exact matches, in which:
12 unique CDR3
4 unique J



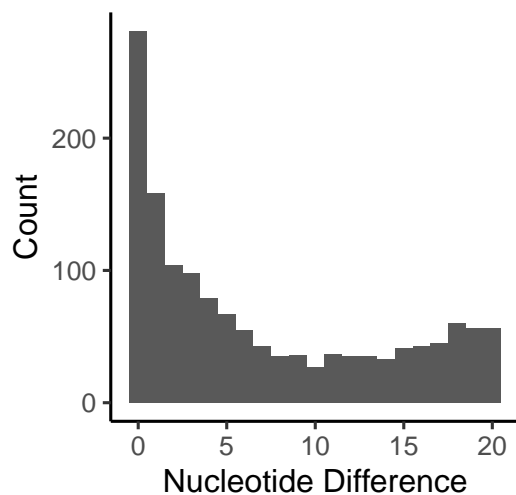
IGHV7-4-1*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



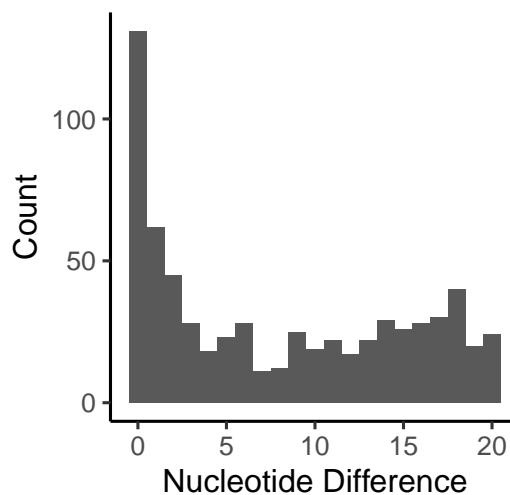
IGHV4-61*02

2068 sequences assigned
281 (13.6%) exact matches, in which:
279 unique CDR3
6 unique J



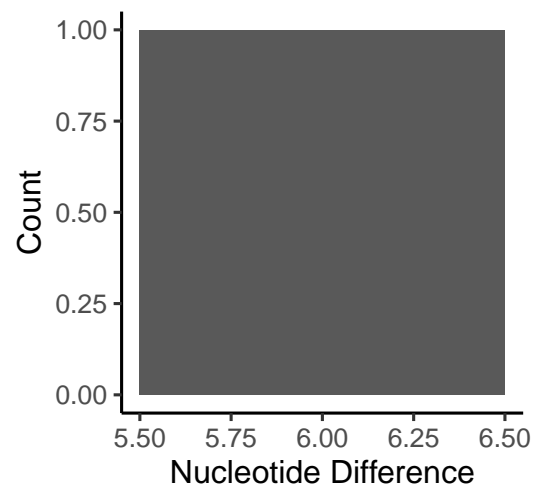
IGHV5-51*03

957 sequences assigned
131 (13.7%) exact matches, in which:
130 unique CDR3
6 unique J



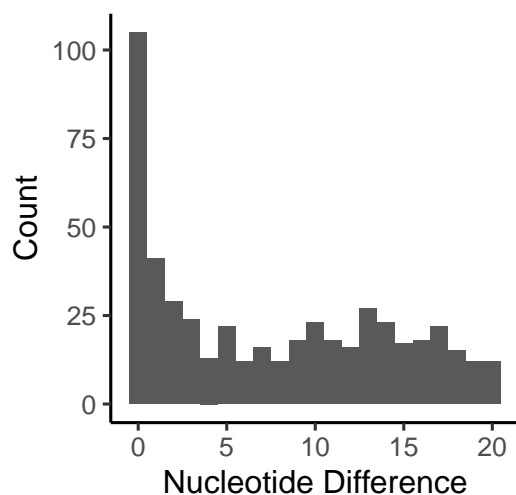
IGHV7-81*01

1 sequences assigned
No exact matches.



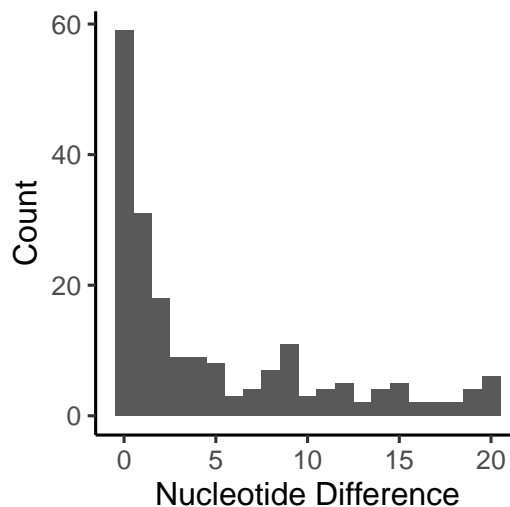
IGHV5-10-1*03

633 sequences assigned
105 (16.6%) exact matches, in which:
104 unique CDR3
5 unique J



IGHV6-1*01

247 sequences assigned
59 (23.9%) exact matches, in which:
57 unique CDR3
6 unique J





Warning – no inferred sequences found.

Warning – no inferred sequences found.