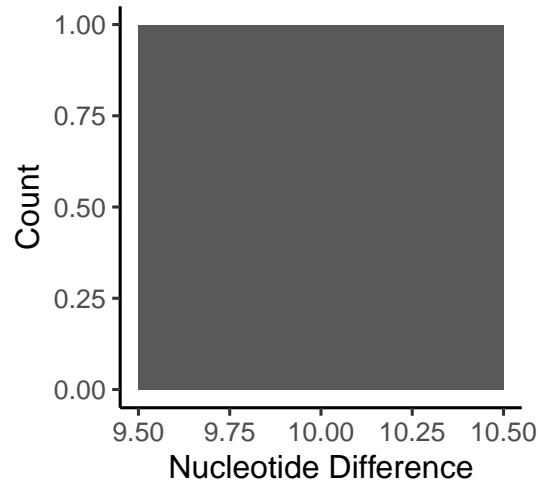


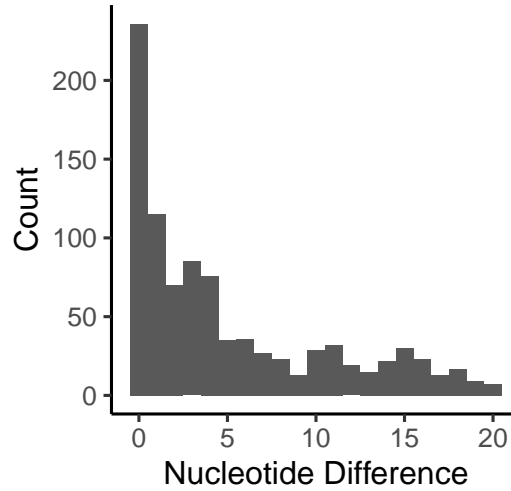
IGHV1/OR21-1*01

1 sequences assigned
No exact matches.



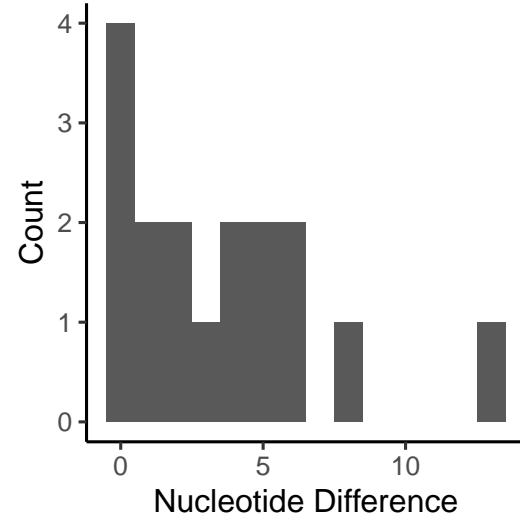
IGHV1-8*01

1049 sequences assigned
236 (22.5%) exact matches, in which:
231 unique CDR3
6 unique J



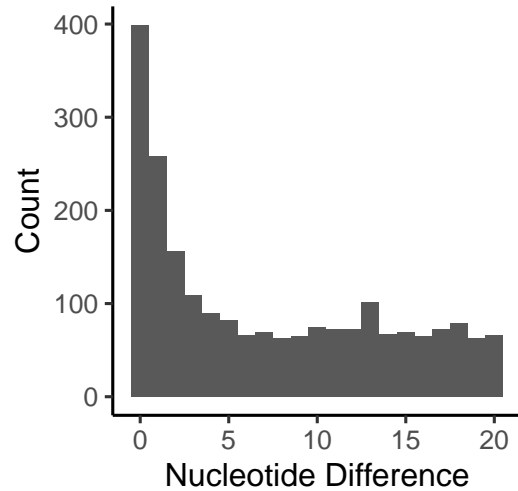
IGHV1-45*02

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



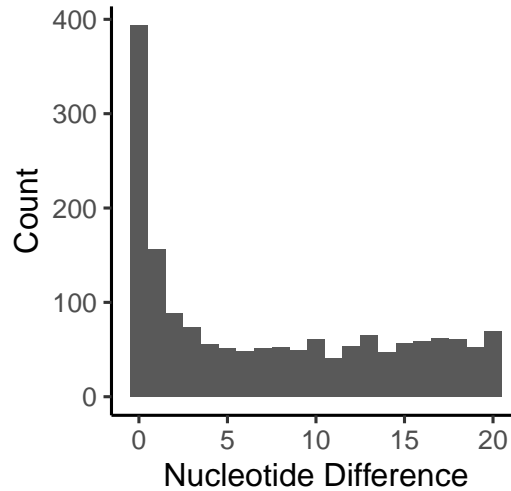
IGHV1-2*02

3335 sequences assigned
399 (12%) exact matches, in which:
398 unique CDR3
6 unique J



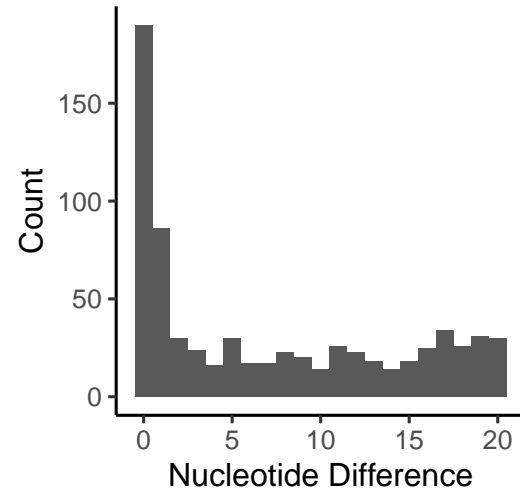
IGHV1-18*01

2590 sequences assigned
394 (15.2%) exact matches, in which:
388 unique CDR3
6 unique J



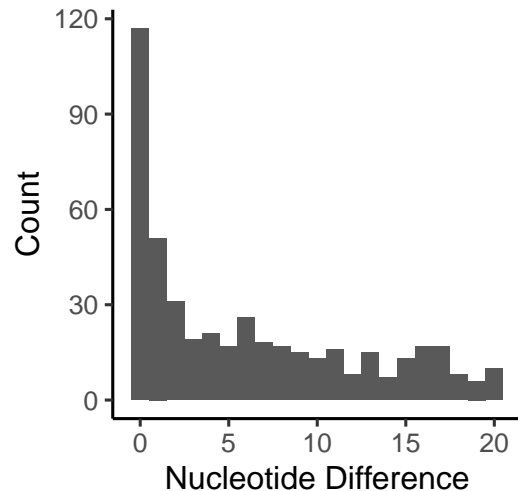
IGHV1-46*01

1195 sequences assigned
190 (15.9%) exact matches, in which:
187 unique CDR3
6 unique J



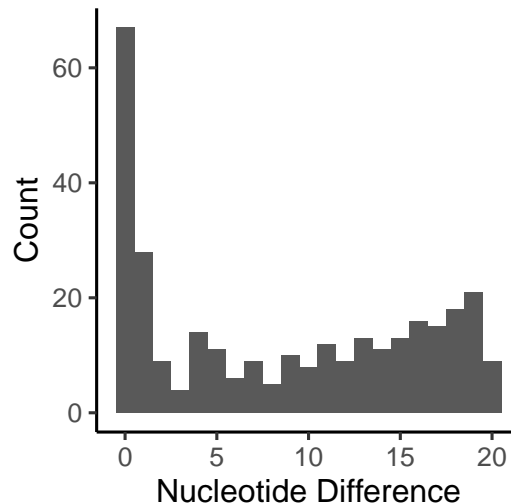
IGHV1-3*01

676 sequences assigned
117 (17.3%) exact matches, in which:
115 unique CDR3
6 unique J



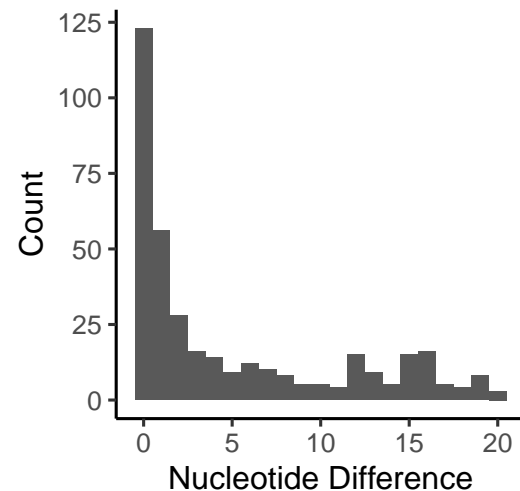
IGHV1-24*01

391 sequences assigned
67 (17.1%) exact matches, in which:
66 unique CDR3
6 unique J



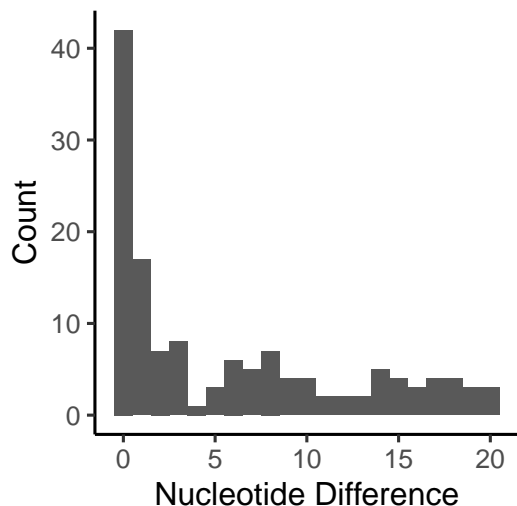
IGHV1-46*03

540 sequences assigned
123 (22.8%) exact matches, in which:
123 unique CDR3
5 unique J



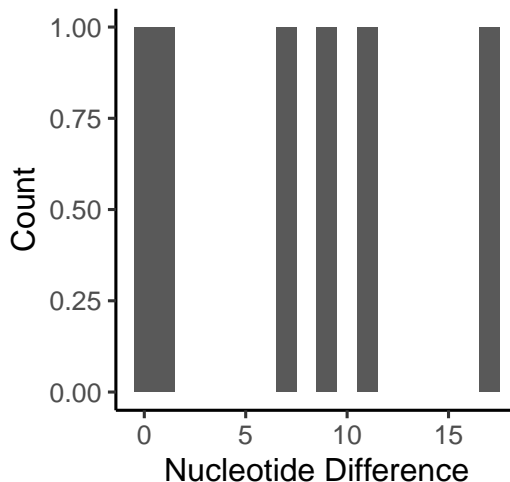
IGHV1-58*02

158 sequences assigned
42 (26.6%) exact matches, in which:
42 unique CDR3
5 unique J



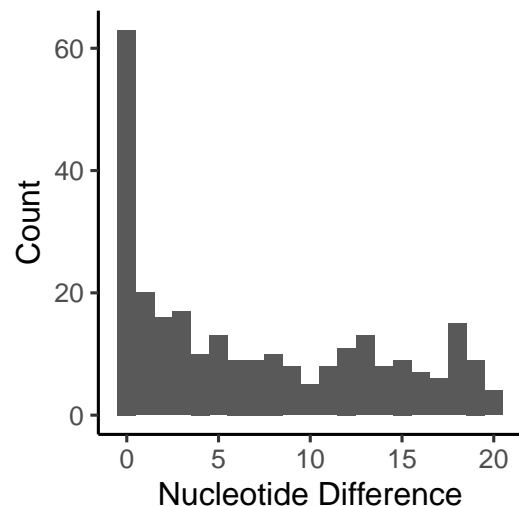
IGHV1-69D*01

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



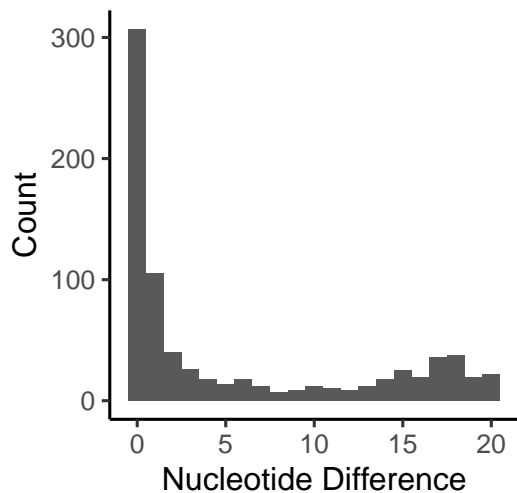
IGHV2-70*15

388 sequences assigned
63 (16.2%) exact matches, in which:
62 unique CDR3
4 unique J



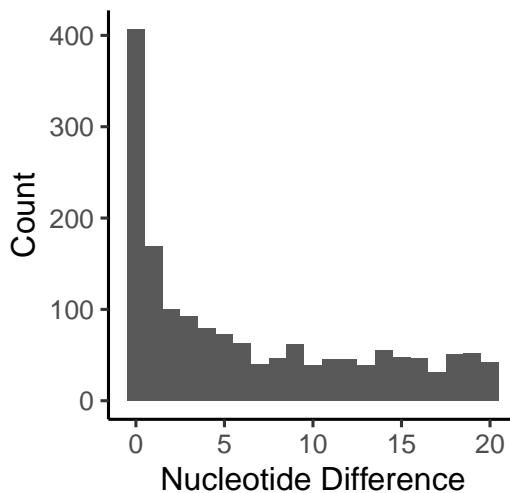
IGHV1-69*04

1341 sequences assigned
307 (22.9%) exact matches, in which:
303 unique CDR3
6 unique J



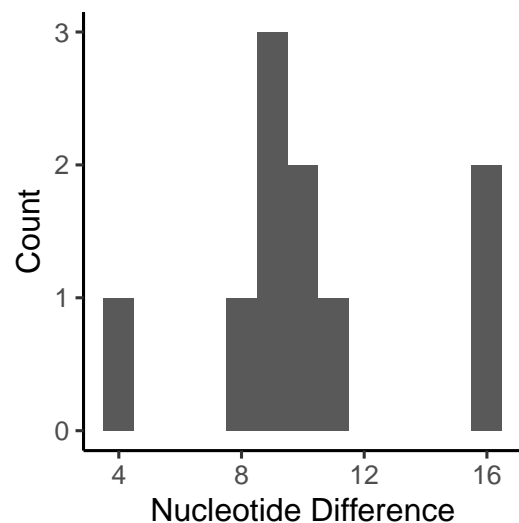
IGHV2-5*02

1976 sequences assigned
407 (20.6%) exact matches, in which:
406 unique CDR3
6 unique J



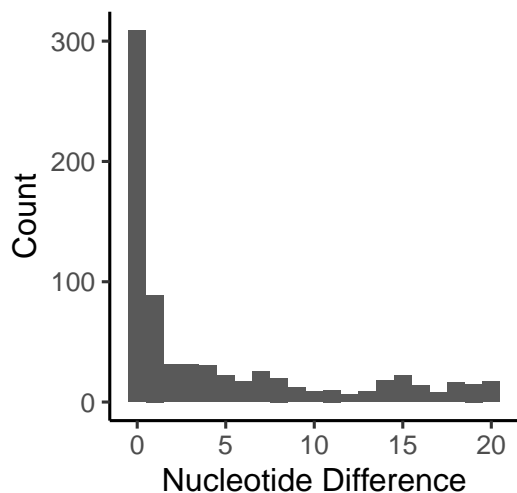
IGHV2-70D*04

12 sequences assigned
No exact matches.



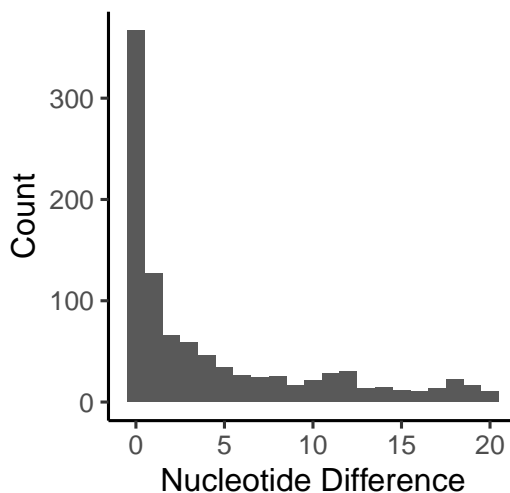
IGHV1-69*08_C191T

1052 sequences assigned
309 (29.4%) exact matches, in which:
305 unique CDR3
6 unique J



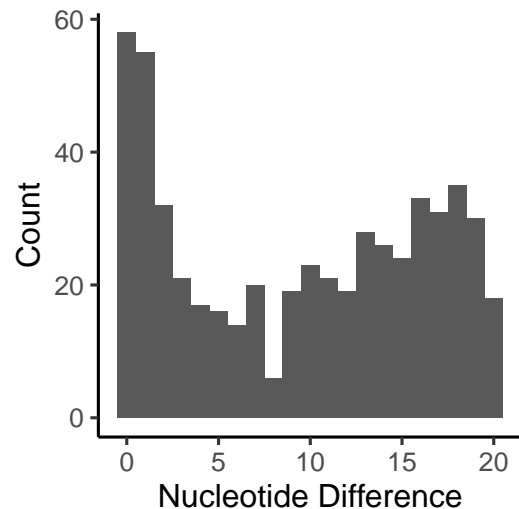
IGHV2-26*01

1062 sequences assigned
367 (34.6%) exact matches, in which:
363 unique CDR3
6 unique J



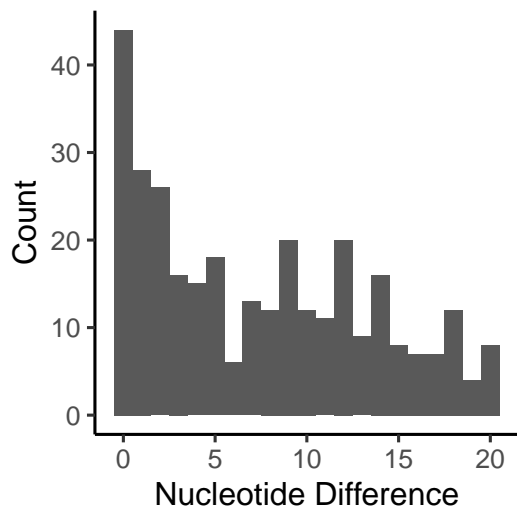
IGHV3-7*01

758 sequences assigned
58 (7.7%) exact matches, in which:
58 unique CDR3
6 unique J



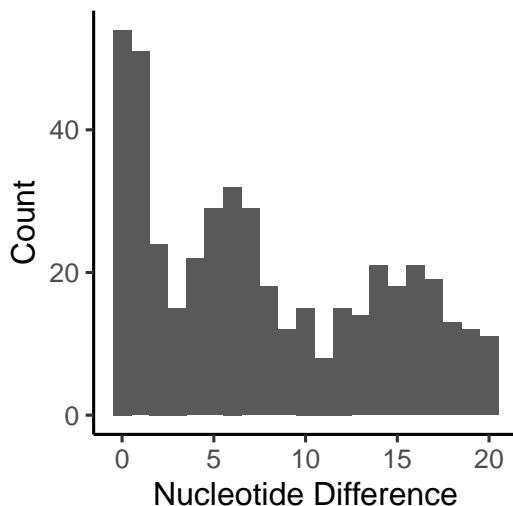
IGHV3-7*04

393 sequences assigned
44 (11.2%) exact matches, in which:
44 unique CDR3
4 unique J



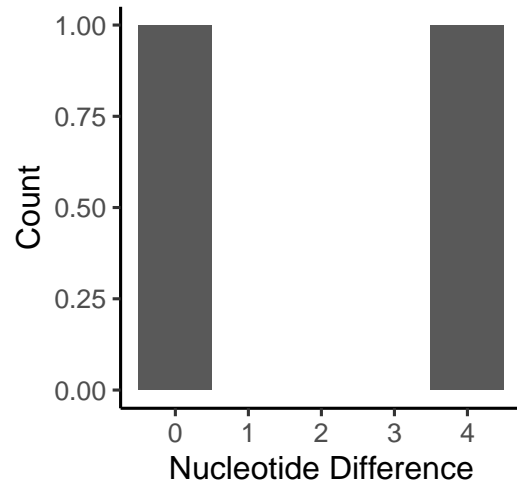
IGHV3-11*06

623 sequences assigned
54 (8.7%) exact matches, in which:
54 unique CDR3
4 unique J



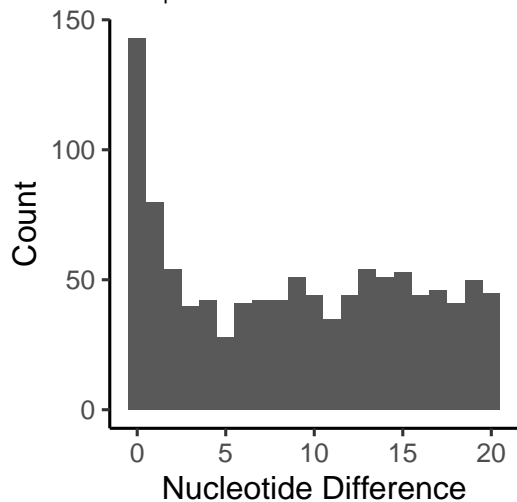
IGHV3-19*01

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



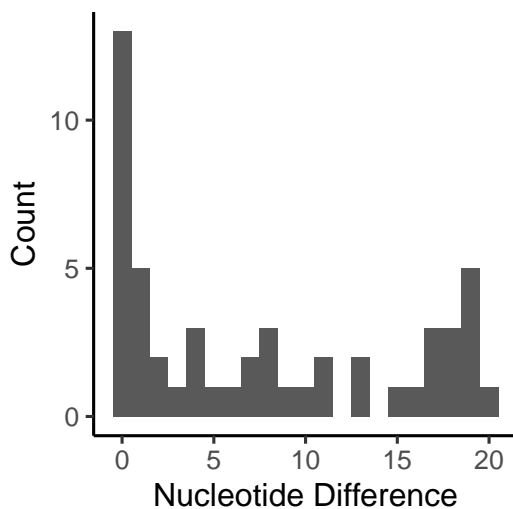
IGHV3-9*01

1626 sequences assigned
143 (8.8%) exact matches, in which:
142 unique CDR3
6 unique J



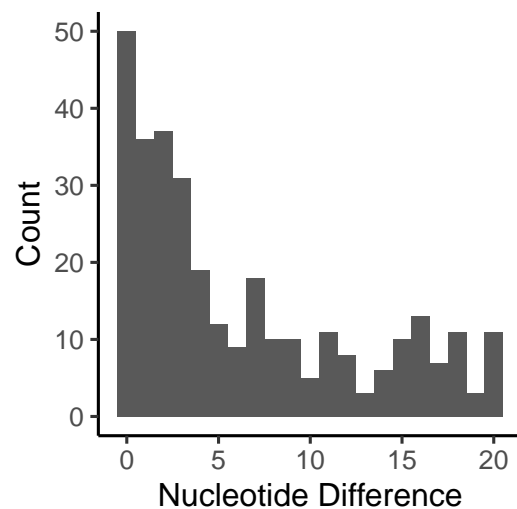
IGHV3-13*05

63 sequences assigned
13 (20.6%) exact matches, in which:
13 unique CDR3
4 unique J



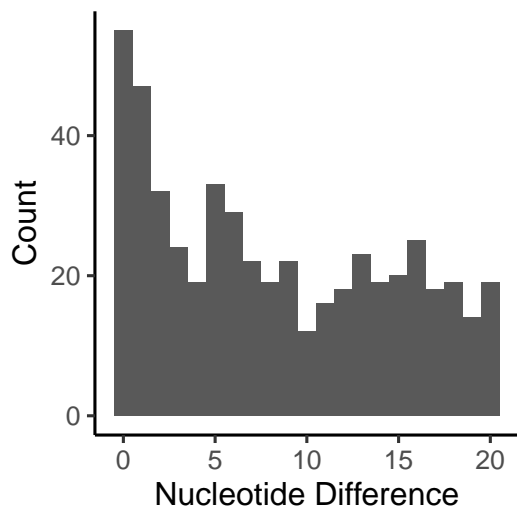
IGHV3-20*04

428 sequences assigned
50 (11.7%) exact matches, in which:
50 unique CDR3
5 unique J



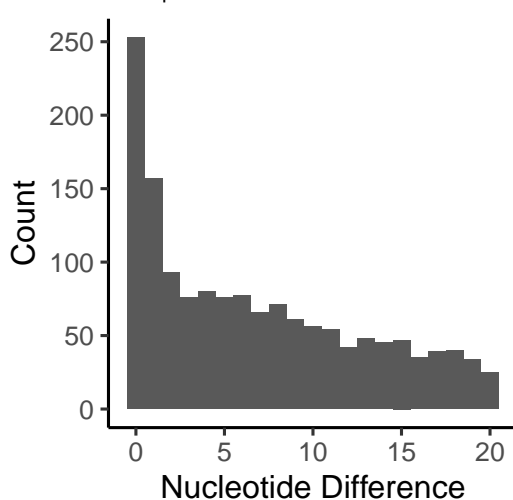
IGHV3-11*04

736 sequences assigned
55 (7.5%) exact matches, in which:
55 unique CDR3
6 unique J



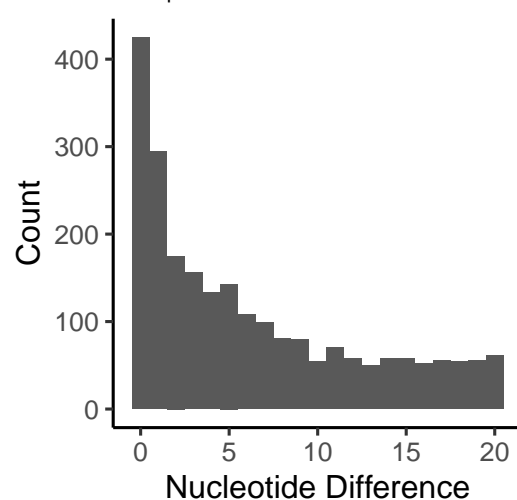
IGHV3-15*01

1847 sequences assigned
253 (13.7%) exact matches, in which:
249 unique CDR3
6 unique J



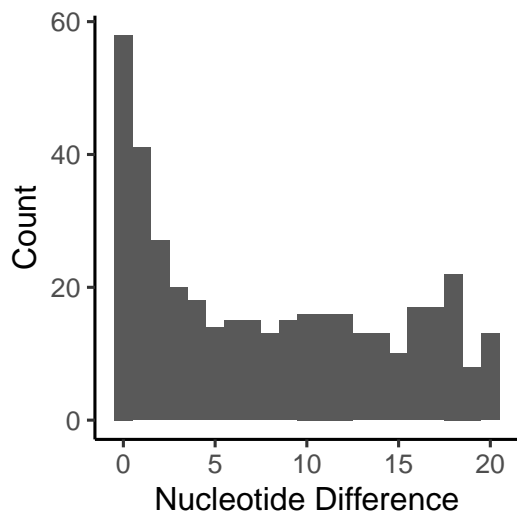
IGHV3-21*01

2902 sequences assigned
425 (14.6%) exact matches, in which:
419 unique CDR3
6 unique J



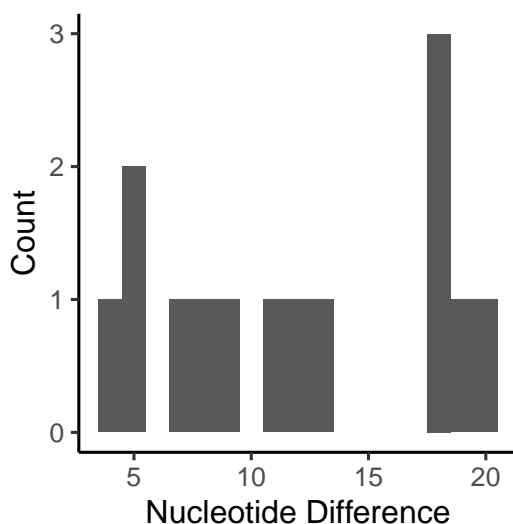
IGHV3-23*03

642 sequences assigned
58 (9%) exact matches, in which:
58 unique CDR3
6 unique J



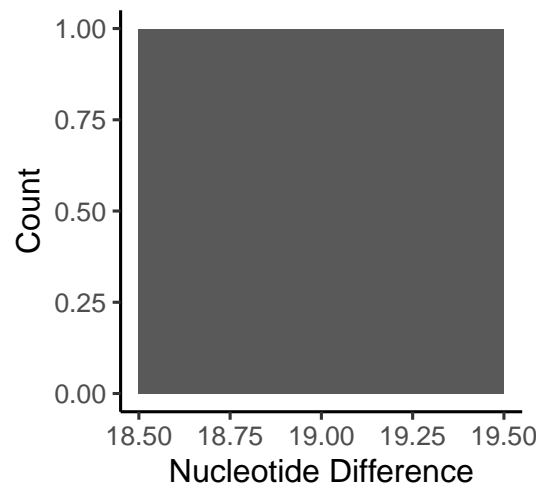
IGHV3-30-3*02

39 sequences assigned
No exact matches.



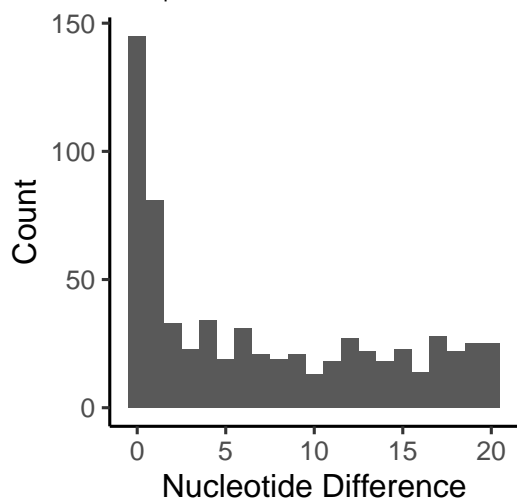
IGHV3-41*02

1 sequences assigned
No exact matches.



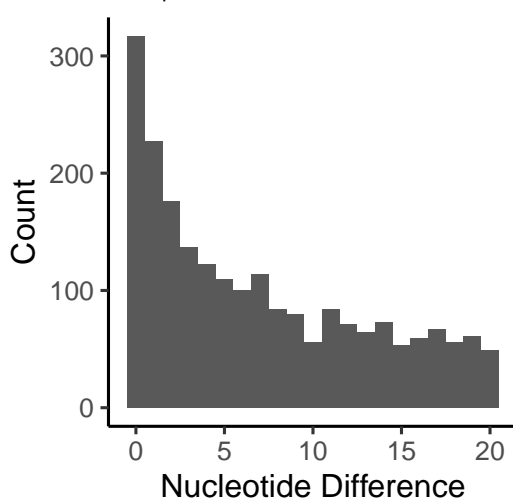
IGHV3-23*04

1012 sequences assigned
145 (14.3%) exact matches, in which:
145 unique CDR3
6 unique J



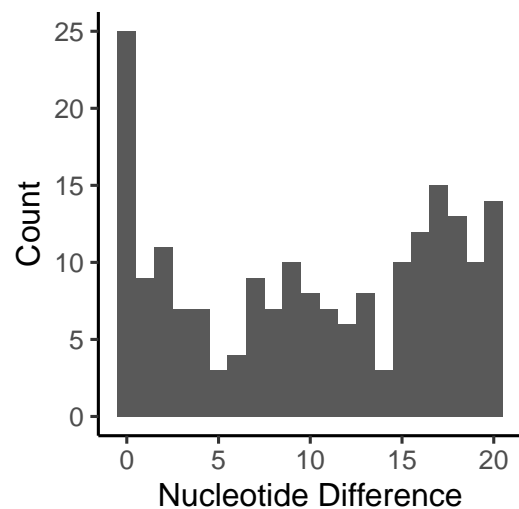
IGHV3-33*01

2785 sequences assigned
317 (11.4%) exact matches, in which:
311 unique CDR3
6 unique J



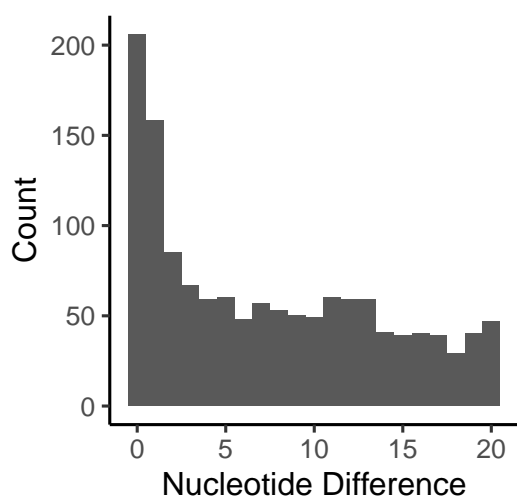
IGHV3-43*01

339 sequences assigned
25 (7.4%) exact matches, in which:
25 unique CDR3
4 unique J



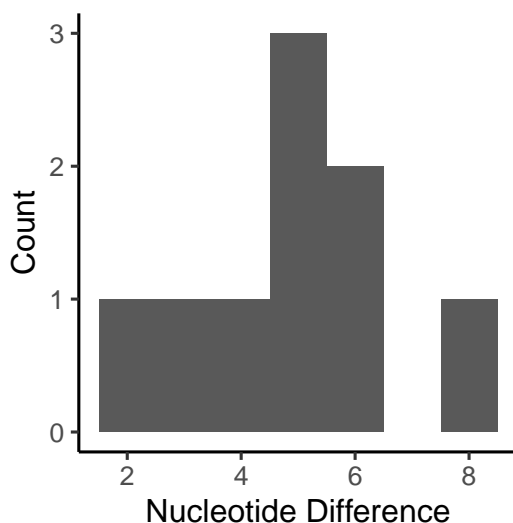
IGHV3-30-3*01

1876 sequences assigned
206 (11%) exact matches, in which:
206 unique CDR3
6 unique J



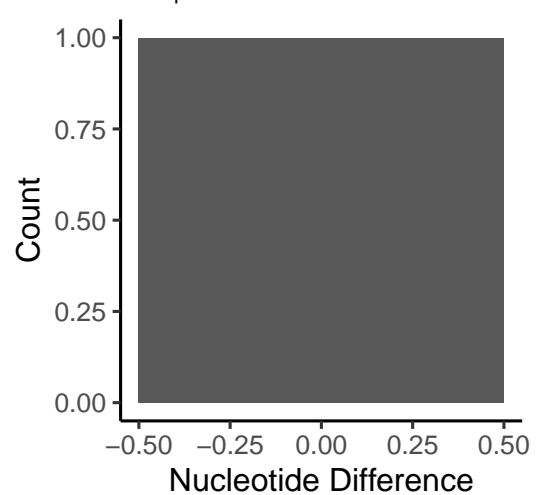
IGHV3-35*01

9 sequences assigned
No exact matches.



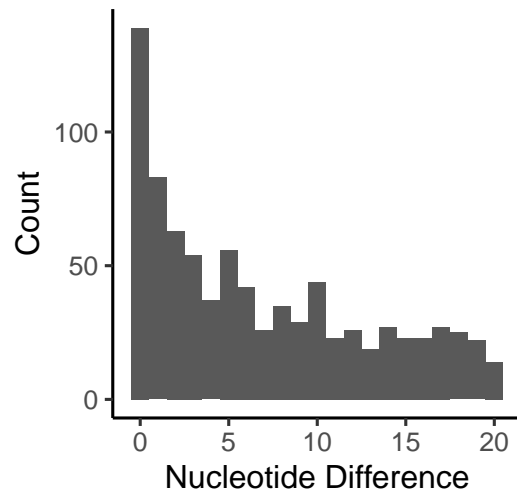
IGHV3-47*02

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



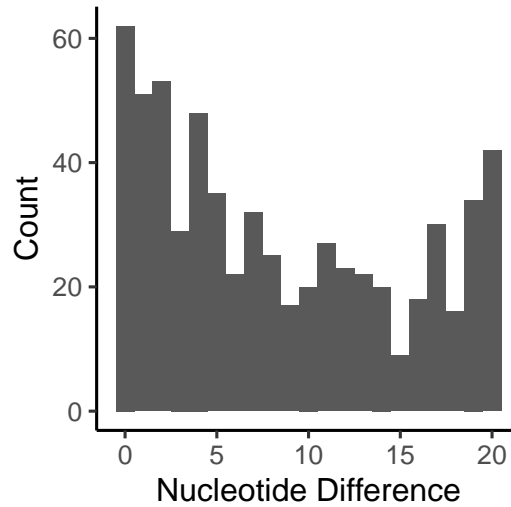
IGHV3-48*01

1084 sequences assigned
139 (12.8%) exact matches, in which:
134 unique CDR3
6 unique J



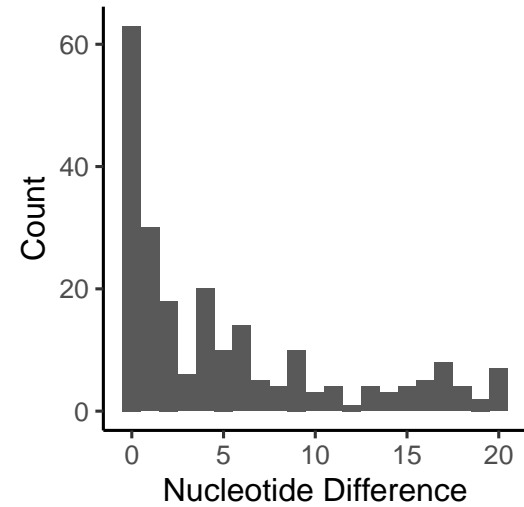
IGHV3-49*04

922 sequences assigned
62 (6.7%) exact matches, in which:
61 unique CDR3
6 unique J



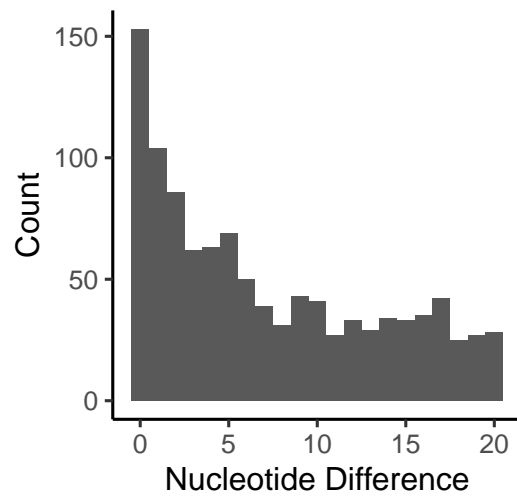
IGHV3-64*01

304 sequences assigned
63 (20.7%) exact matches, in which:
63 unique CDR3
6 unique J



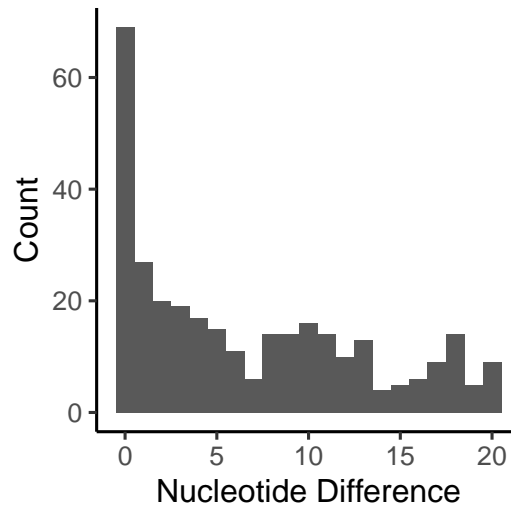
IGHV3-48*03

1407 sequences assigned
153 (10.9%) exact matches, in which:
152 unique CDR3
6 unique J



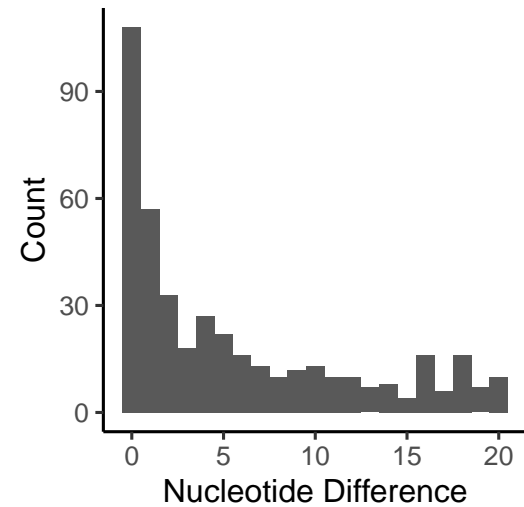
IGHV3-53*01

505 sequences assigned
69 (13.7%) exact matches, in which:
69 unique CDR3
6 unique J



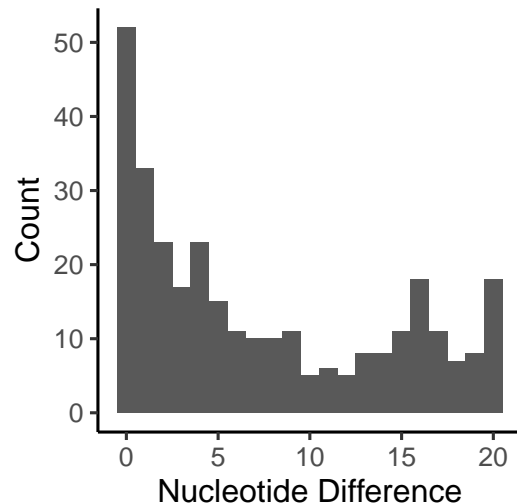
IGHV3-66*01

596 sequences assigned
108 (18.1%) exact matches, in which:
108 unique CDR3
6 unique J



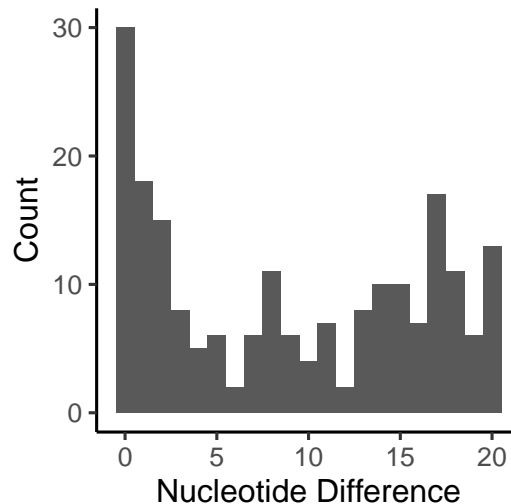
IGHV3-49*03

488 sequences assigned
52 (10.7%) exact matches, in which:
52 unique CDR3
4 unique J



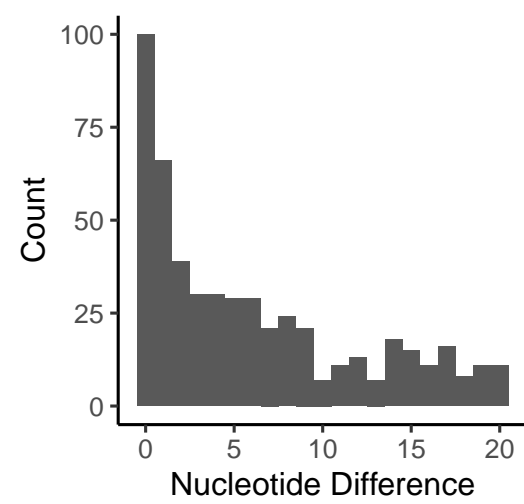
IGHV3-53*02

354 sequences assigned
30 (8.5%) exact matches, in which:
30 unique CDR3
5 unique J



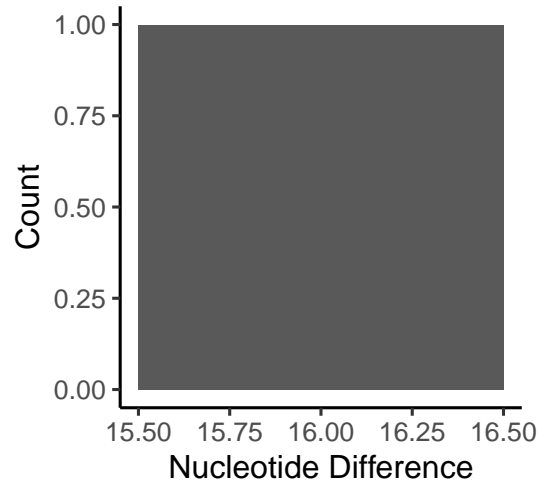
IGHV3-66*02

704 sequences assigned
100 (14.2%) exact matches, in which:
99 unique CDR3
5 unique J



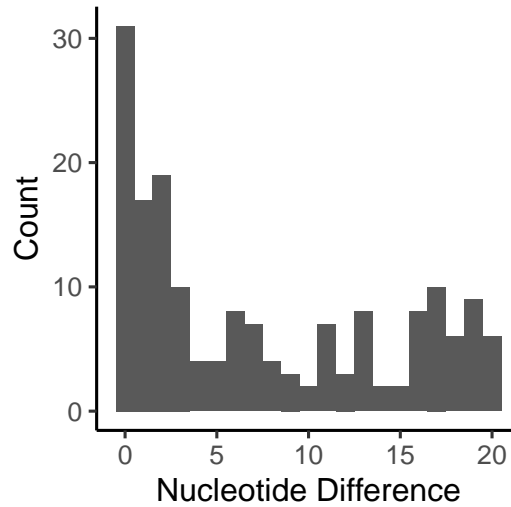
IGHV3-69-1*02

1 sequences assigned
No exact matches.



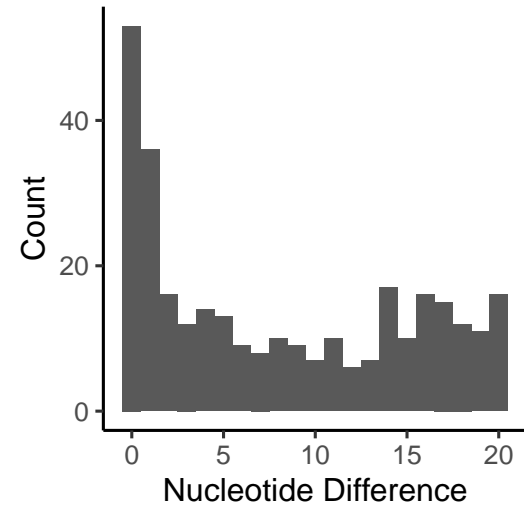
IGHV3-73*01

210 sequences assigned
31 (14.8%) exact matches, in which:
31 unique CDR3
5 unique J



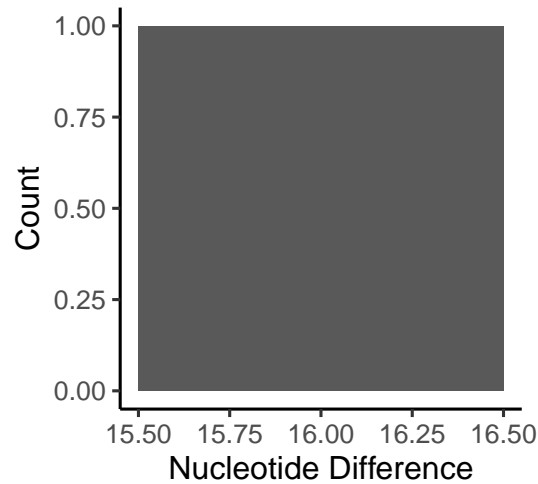
IGHV3-64D*06

472 sequences assigned
53 (11.2%) exact matches, in which:
53 unique CDR3
4 unique J



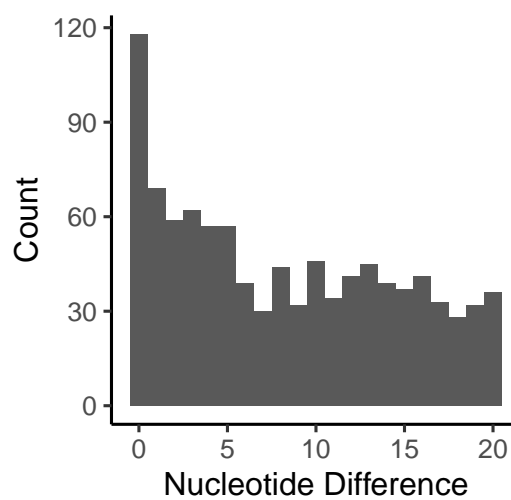
IGHV3-71*03

1 sequences assigned
No exact matches.



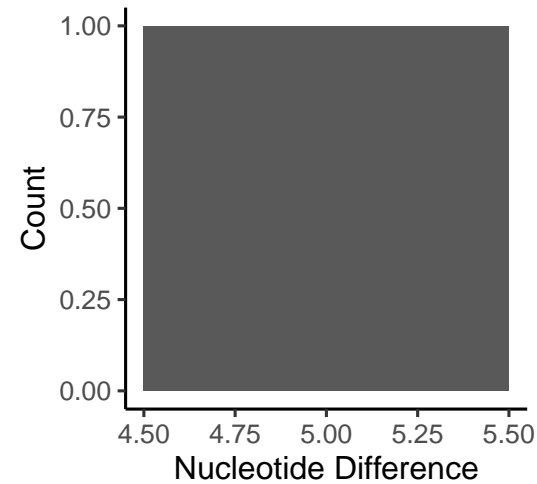
IGHV3-74*01

1413 sequences assigned
118 (8.4%) exact matches, in which:
117 unique CDR3
6 unique J



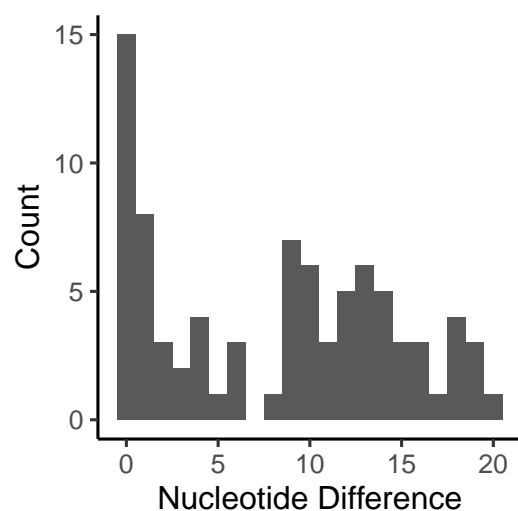
IGHV3-NL1*01

1 sequences assigned
No exact matches.



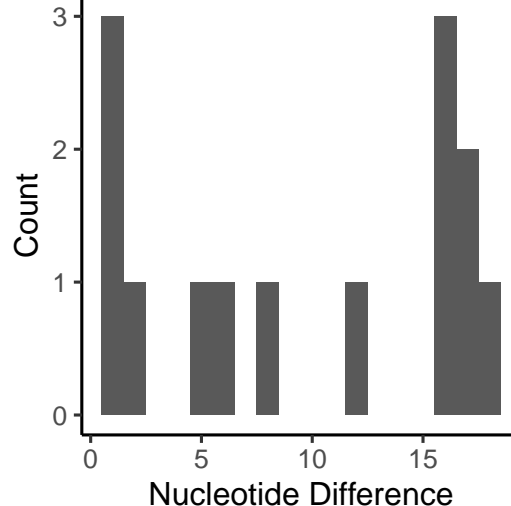
IGHV3-72*01

112 sequences assigned
15 (13.4%) exact matches, in which:
15 unique CDR3
4 unique J



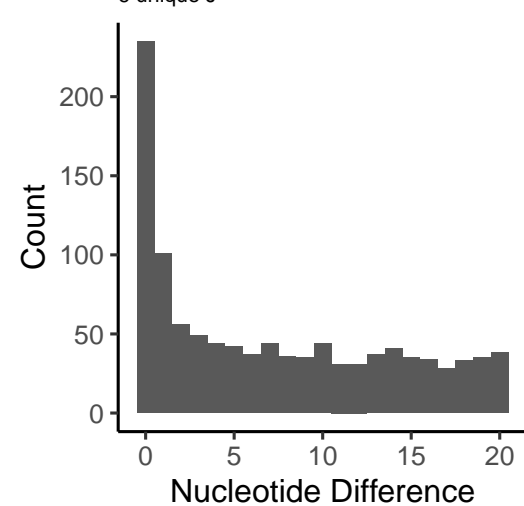
IGHV3-43D*04

20 sequences assigned
No exact matches.



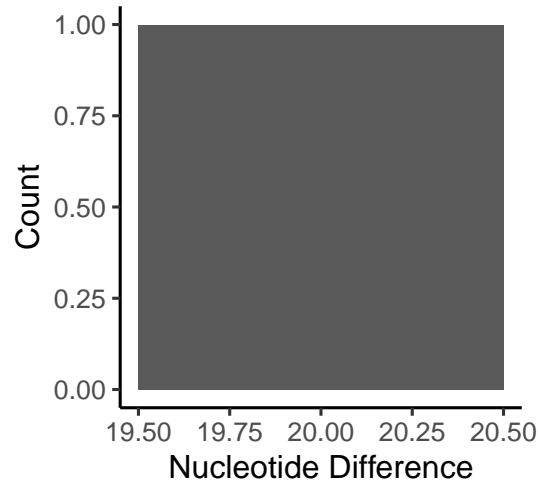
IGHV4-4*07

1545 sequences assigned
235 (15.2%) exact matches, in which:
234 unique CDR3
6 unique J



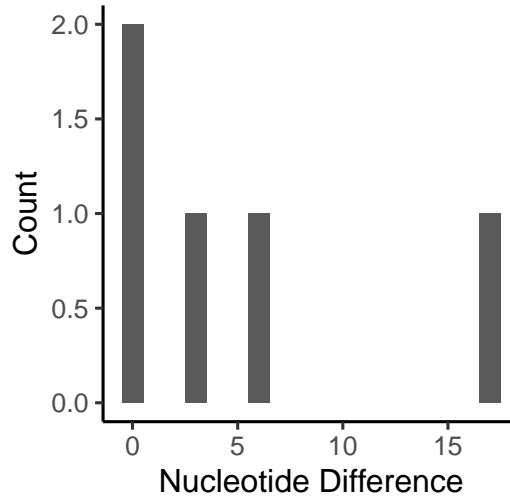
IGHV4-28*01

4 sequences assigned
No exact matches.



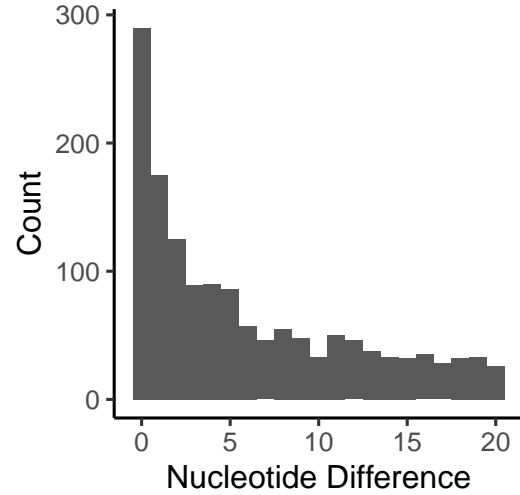
IGHV4-30-2*05

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



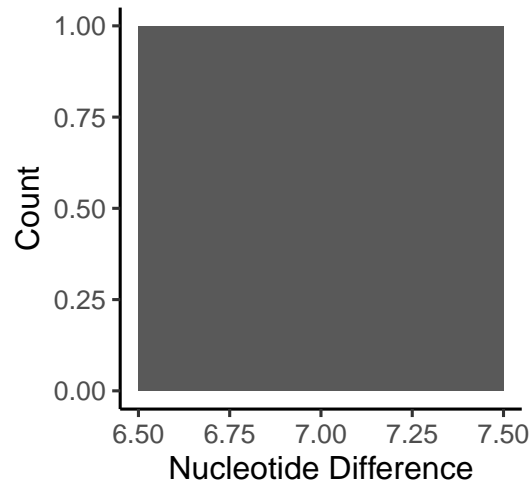
IGHV4-31*03

1905 sequences assigned
290 (15.2%) exact matches, in which:
287 unique CDR3
6 unique J



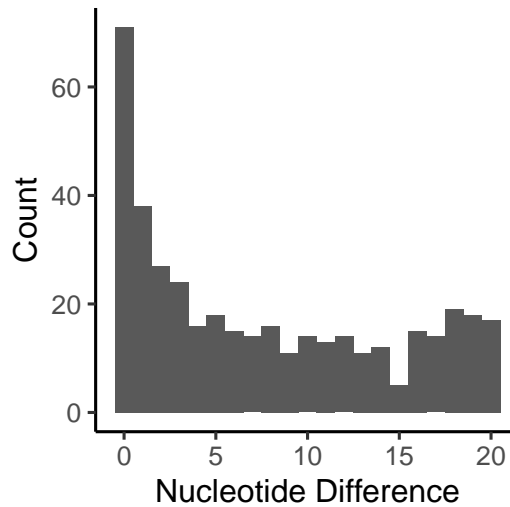
IGHV4-28*03

1 sequences assigned
No exact matches.



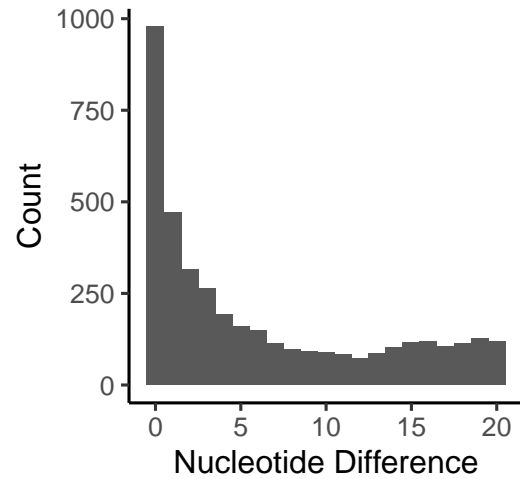
IGHV4-30-4*08

666 sequences assigned
71 (10.7%) exact matches, in which:
71 unique CDR3
6 unique J



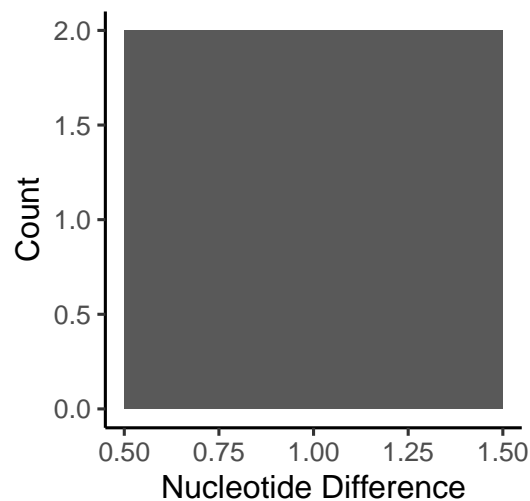
IGHV4-34*01

5142 sequences assigned
978 (19%) exact matches, in which:
958 unique CDR3
6 unique J



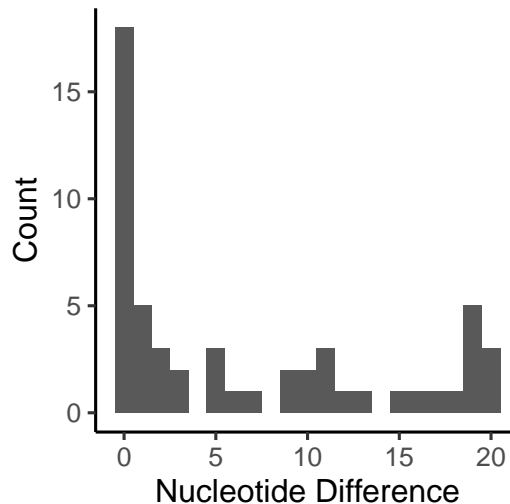
IGHV4-28*04

2 sequences assigned
No exact matches.



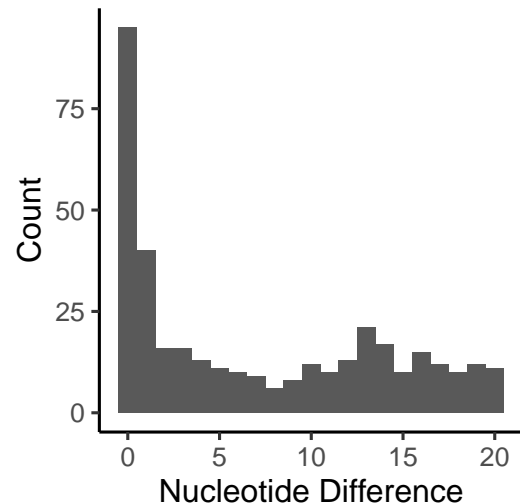
IGHV4-30-2*01_G139C

70 sequences assigned
18 (25.7%) exact matches, in which:
18 unique CDR3
5 unique J



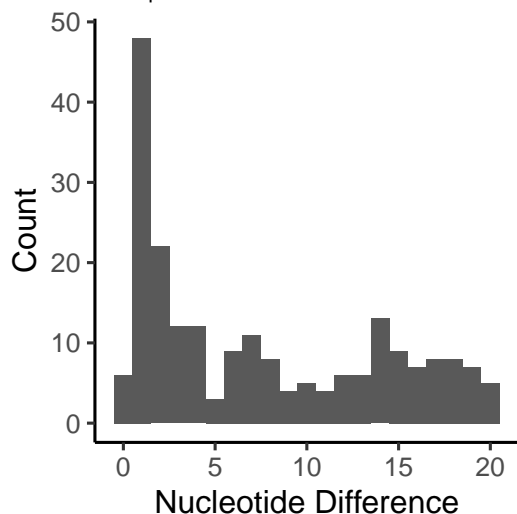
IGHV4-38-2*01

494 sequences assigned
95 (19.2%) exact matches, in which:
95 unique CDR3
6 unique J



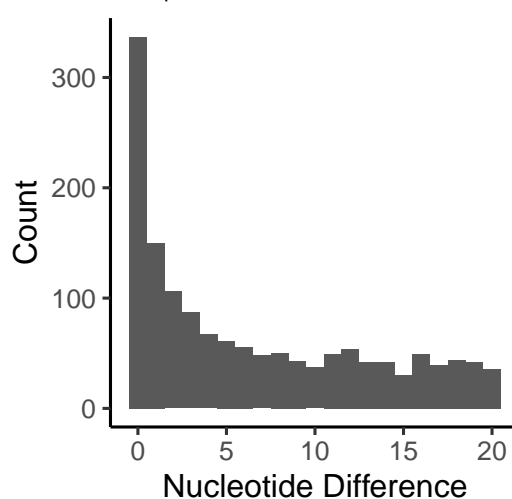
IGHV4-38-2*02

343 sequences assigned
6 (1.7%) exact matches, in which:
6 unique CDR3
2 unique J



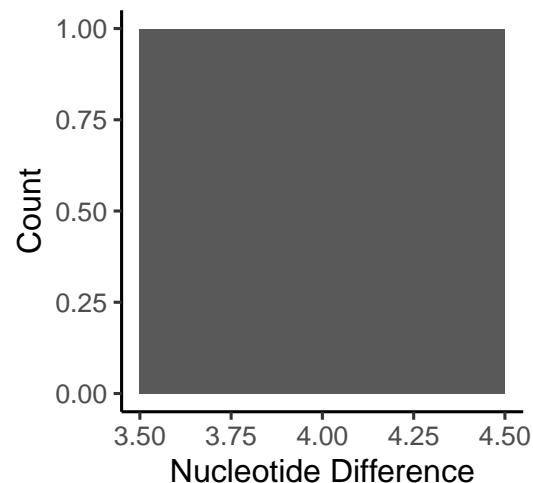
IGHV4-59*01

2091 sequences assigned
337 (16.1%) exact matches, in which:
334 unique CDR3
6 unique J



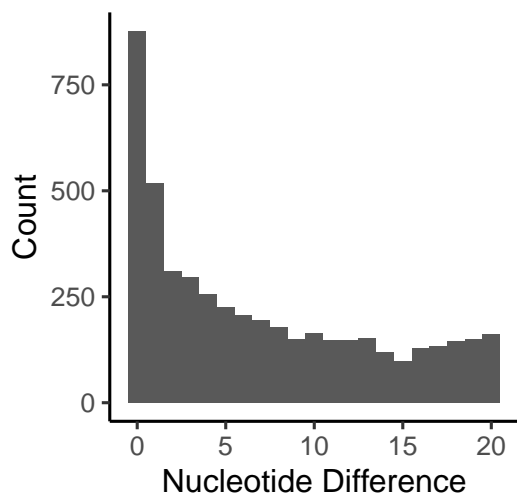
IGHV4/OR15-8*01

1 sequences assigned
No exact matches.



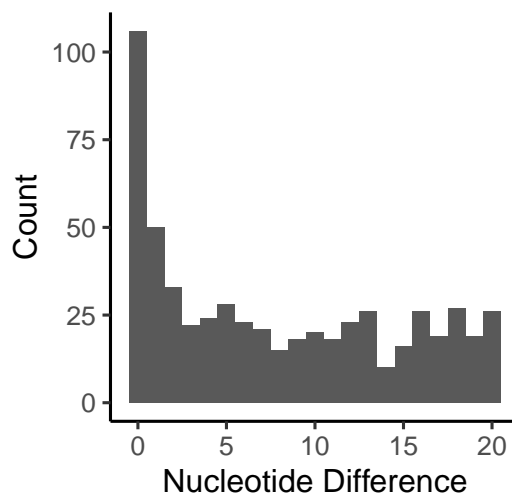
IGHV4-39*01

6941 sequences assigned
877 (12.6%) exact matches, in which:
872 unique CDR3
6 unique J



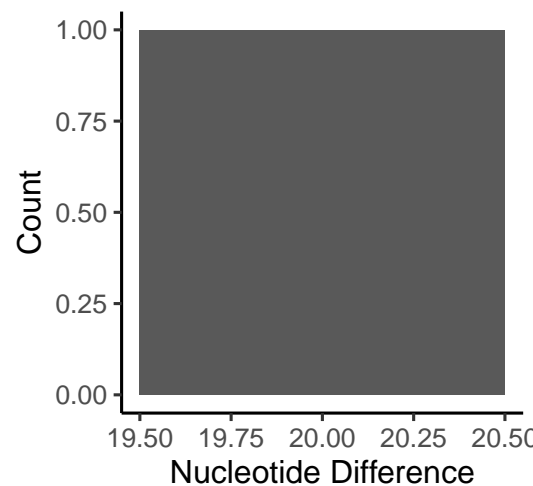
IGHV4-59*08

841 sequences assigned
106 (12.6%) exact matches, in which:
105 unique CDR3
6 unique J



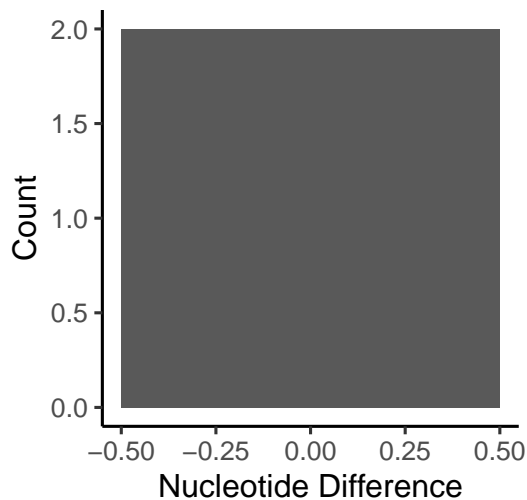
IGHV4/OR15-8*02

1 sequences assigned
No exact matches.



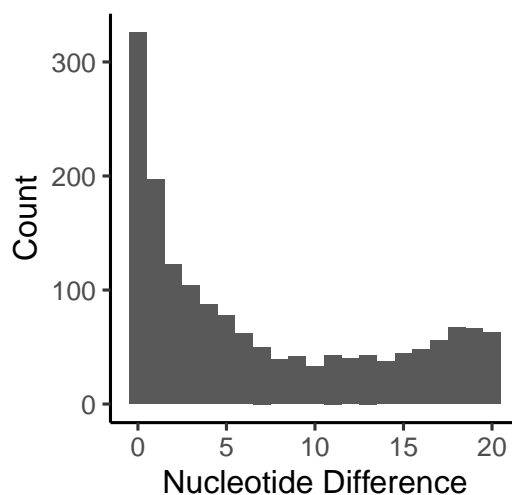
IGHV4-55*01

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



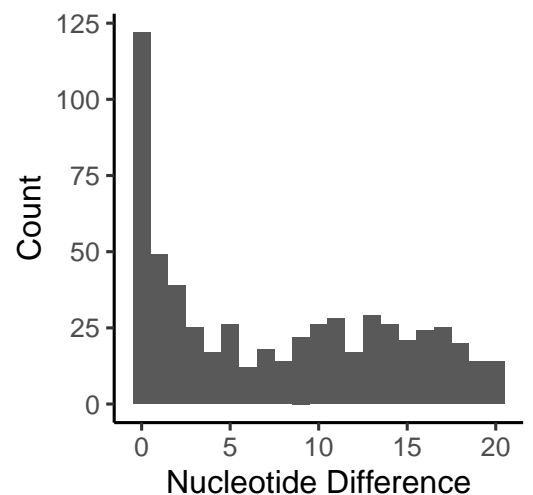
IGHV4-61*02

2395 sequences assigned
326 (13.6%) exact matches, in which:
323 unique CDR3
6 unique J



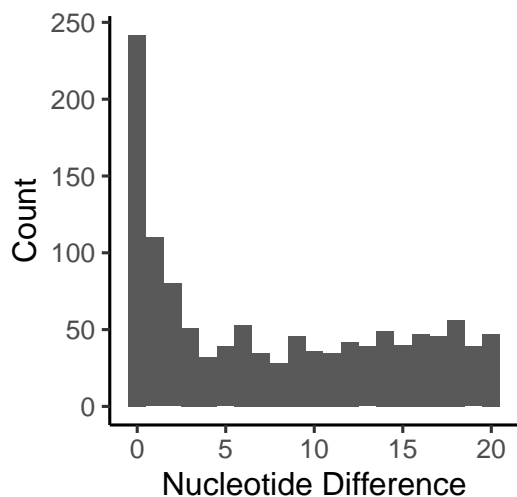
IGHV5-10-1*03

748 sequences assigned
122 (16.3%) exact matches, in which:
120 unique CDR3
5 unique J



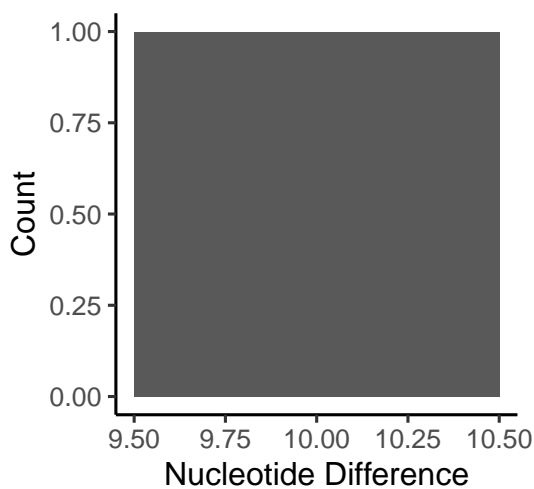
IGHV5–51*01_C45G

1628 sequences assigned
242 (14.9%) exact matches, in which:
240 unique CDR3
6 unique J



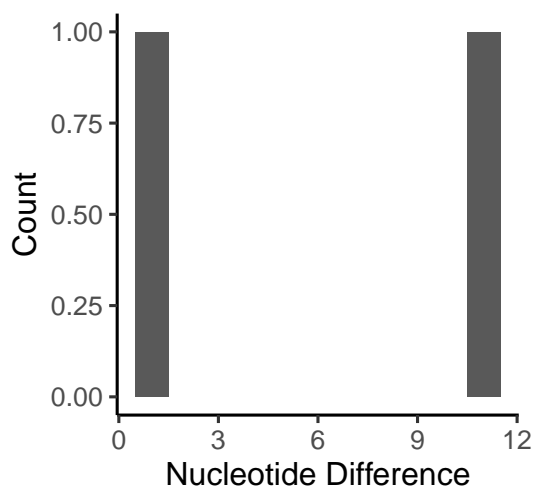
IGHV3/OR16–12*01

2 sequences assigned
No exact matches.



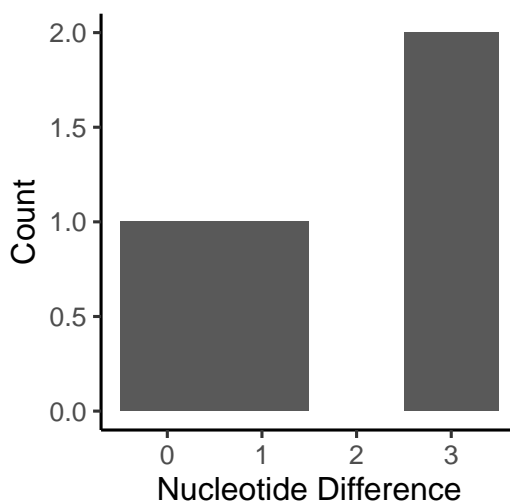
IGHV5–78*01

2 sequences assigned
No exact matches.



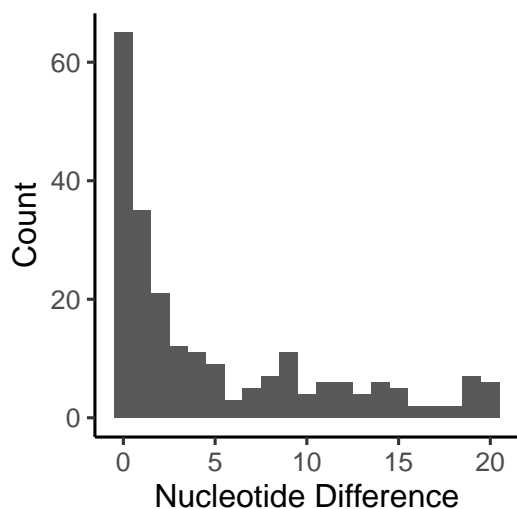
IGHV7–4–1*01

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



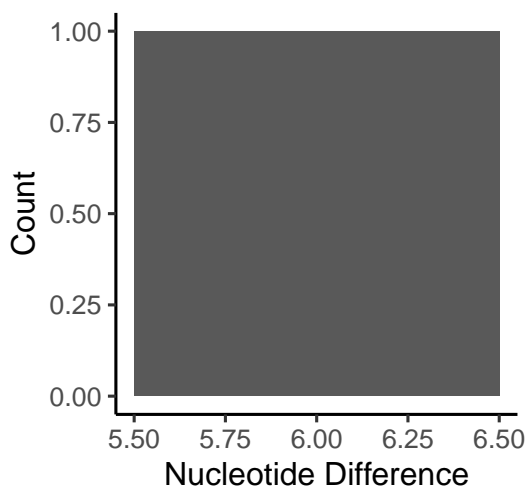
IGHV6–1*01

293 sequences assigned
65 (22.2%) exact matches, in which:
63 unique CDR3
6 unique J



IGHV7–81*01

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.