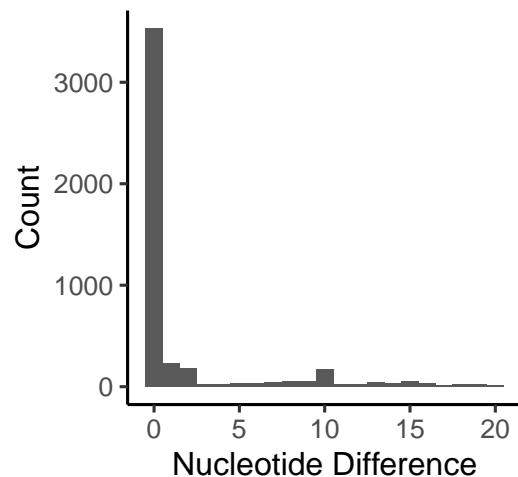


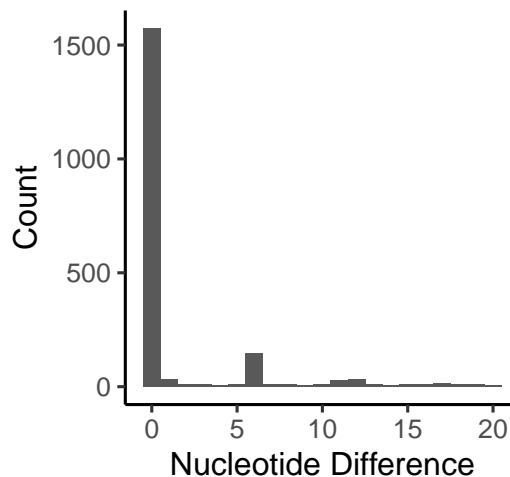
IGHV1-2*02

4899 sequences assigned
3531 (72.1%) exact matches, in which:
3473 unique CDR3
7 unique J



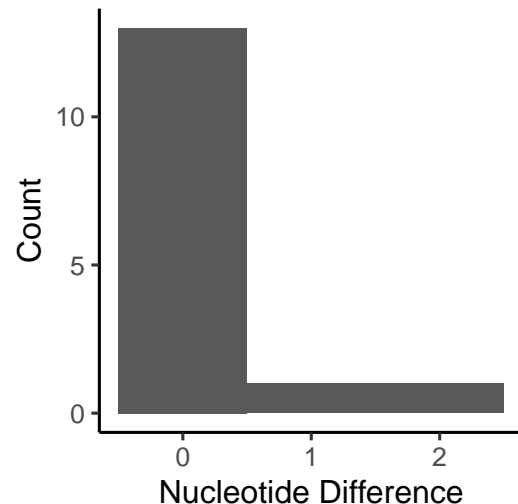
IGHV1-18*01

2071 sequences assigned
1573 (76%) exact matches, in which:
1563 unique CDR3
7 unique J



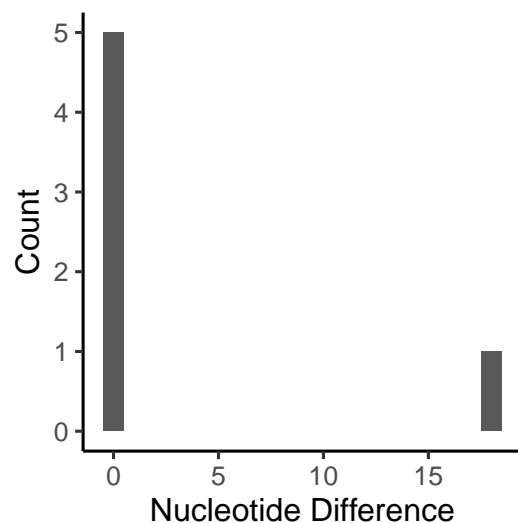
IGHV1-45*02

19 sequences assigned
13 (68.4%) exact matches, in which:
13 unique CDR3
4 unique J



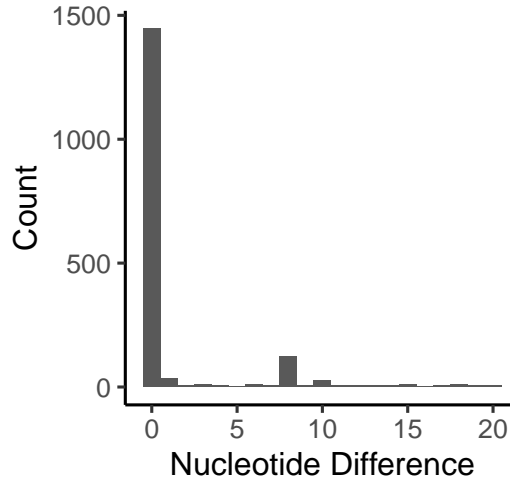
IGHV1-3*02

6 sequences assigned
5 (83.3%) exact matches, in which:
5 unique CDR3
3 unique J



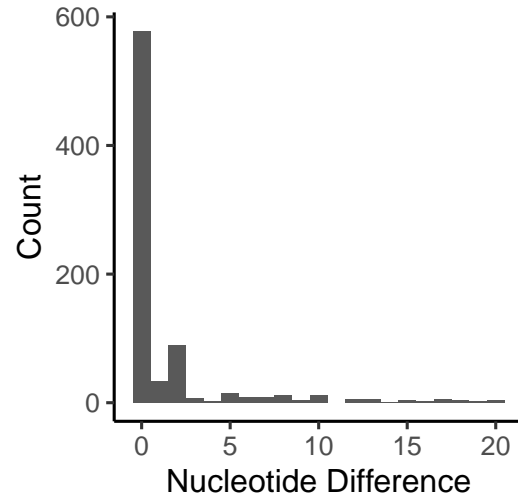
IGHV1-18*04

1797 sequences assigned
1446 (80.5%) exact matches, in which:
1431 unique CDR3
7 unique J



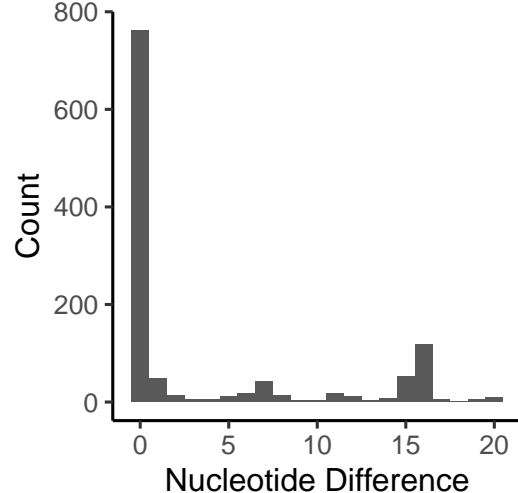
IGHV1-46*01

830 sequences assigned
578 (69.6%) exact matches, in which:
576 unique CDR3
7 unique J



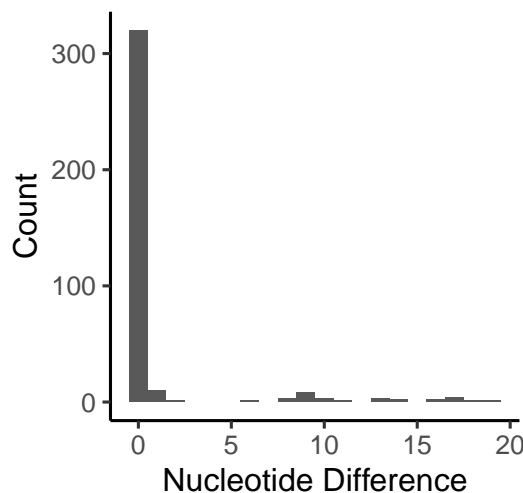
IGHV1-8*01

1185 sequences assigned
762 (64.3%) exact matches, in which:
753 unique CDR3
7 unique J



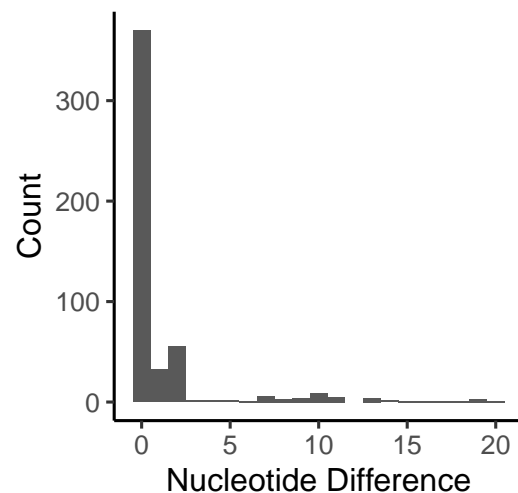
IGHV1-24*01

367 sequences assigned
320 (87.2%) exact matches, in which:
318 unique CDR3
7 unique J



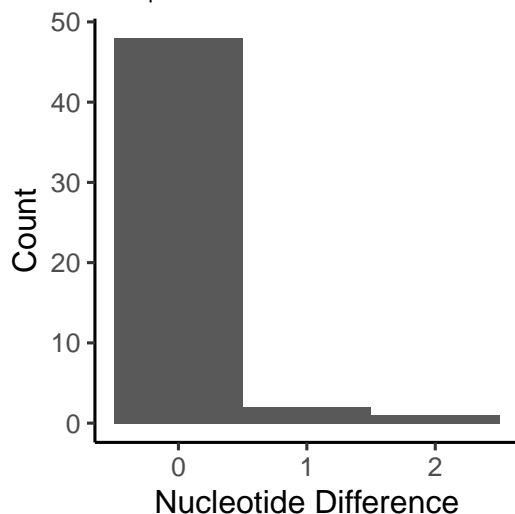
IGHV1-46*03

514 sequences assigned
370 (72%) exact matches, in which:
365 unique CDR3
7 unique J



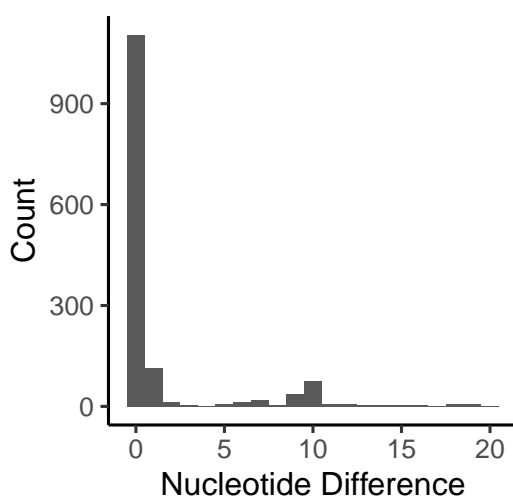
IGHV1-58*02

52 sequences assigned
48 (92.3%) exact matches, in which:
48 unique CDR3
5 unique J



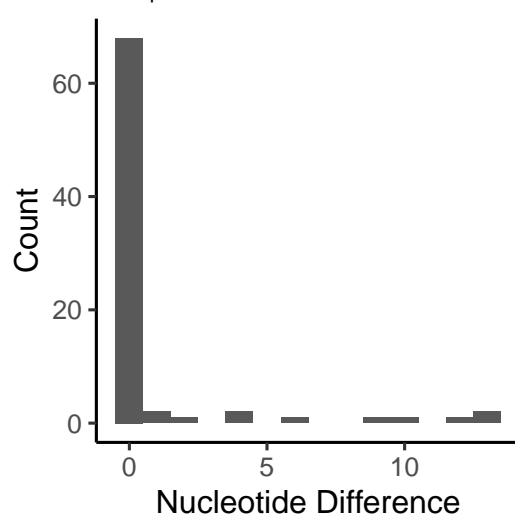
IGHV1-69*04_09

1491 sequences assigned
1105 (74.1%) exact matches, in which:
1087 unique CDR3
7 unique J



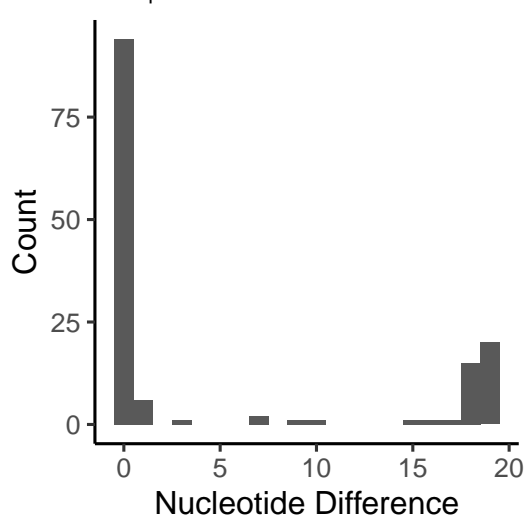
IGHV2-26*01

82 sequences assigned
68 (82.9%) exact matches, in which:
66 unique CDR3
6 unique J



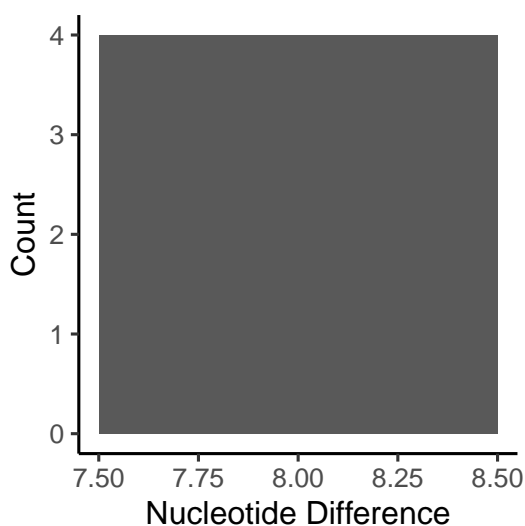
IGHV1-58*01_03

144 sequences assigned
94 (65.3%) exact matches, in which:
91 unique CDR3
6 unique J



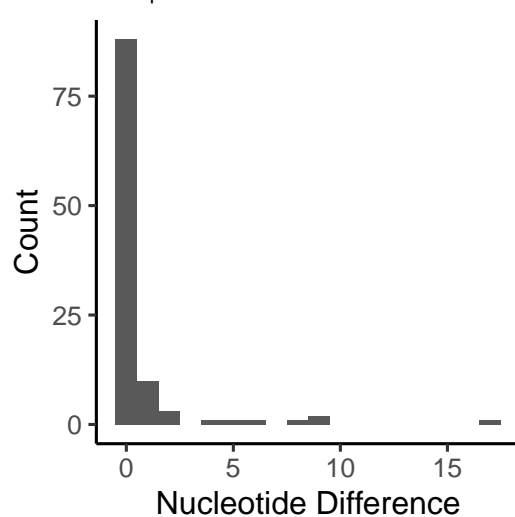
IGHV1-NL1*01

4 sequences assigned
No exact matches.



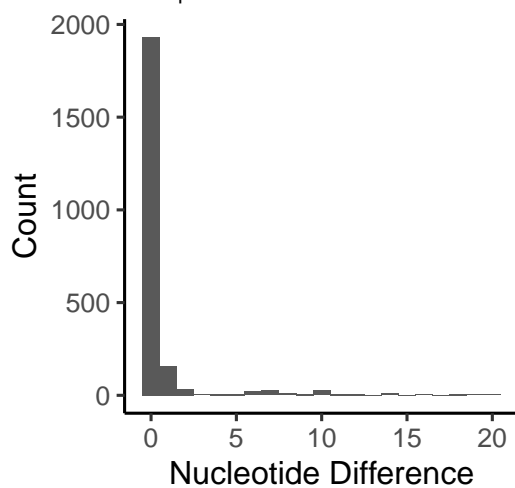
IGHV2-70*01

109 sequences assigned
88 (80.7%) exact matches, in which:
88 unique CDR3
6 unique J



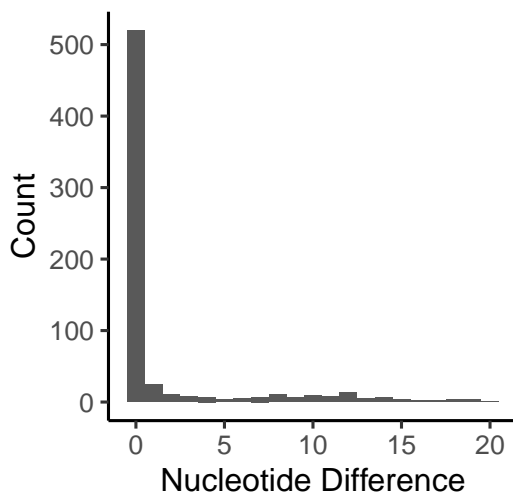
IGHV1-69*01_12_13

2358 sequences assigned
1932 (81.9%) exact matches, in which:
1915 unique CDR3
7 unique J



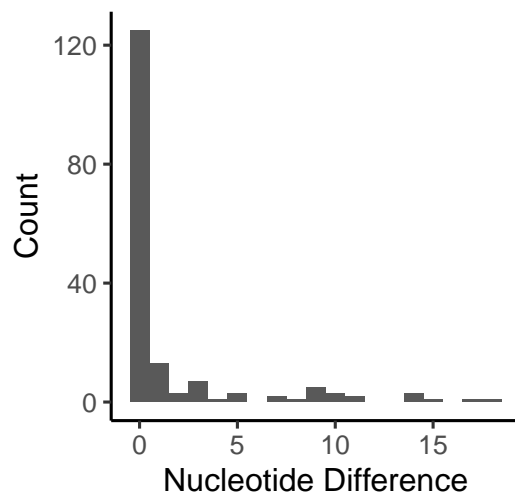
IGHV2-5*02

710 sequences assigned
520 (73.2%) exact matches, in which:
510 unique CDR3
7 unique J



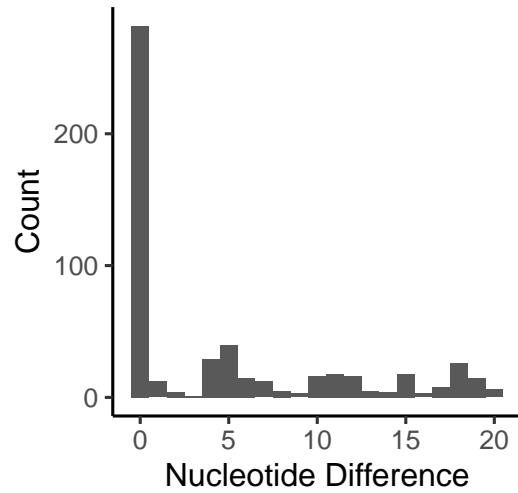
IGHV2-70*11_15

174 sequences assigned
125 (71.8%) exact matches, in which:
124 unique CDR3
5 unique J



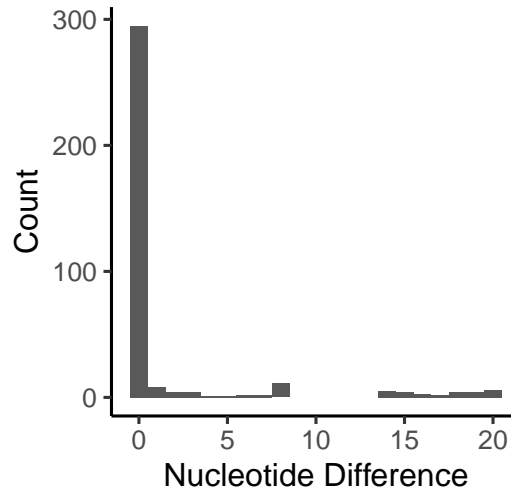
IGHV3-7*01

585 sequences assigned
282 (48.2%) exact matches, in which:
238 unique CDR3
6 unique J



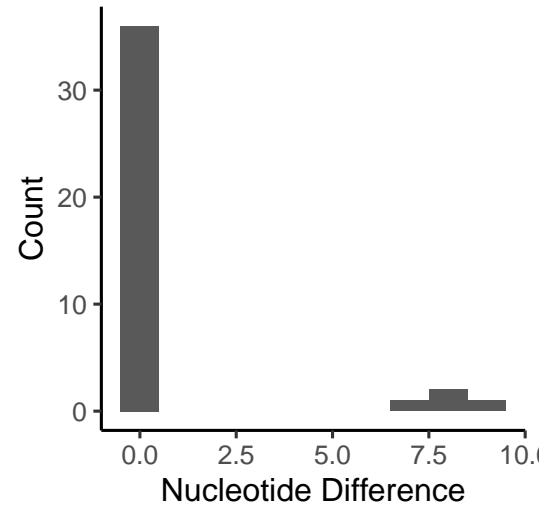
IGHV3-11*01

617 sequences assigned
295 (47.8%) exact matches, in which:
243 unique CDR3
6 unique J



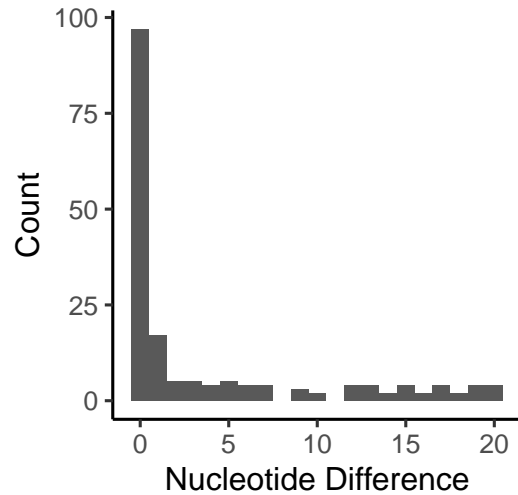
IGHV3-13*05

42 sequences assigned
36 (85.7%) exact matches, in which:
28 unique CDR3
5 unique J



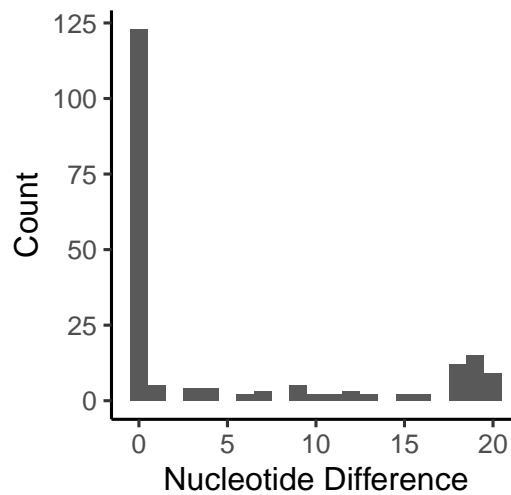
IGHV3-7*04

301 sequences assigned
97 (32.2%) exact matches, in which:
81 unique CDR3
7 unique J



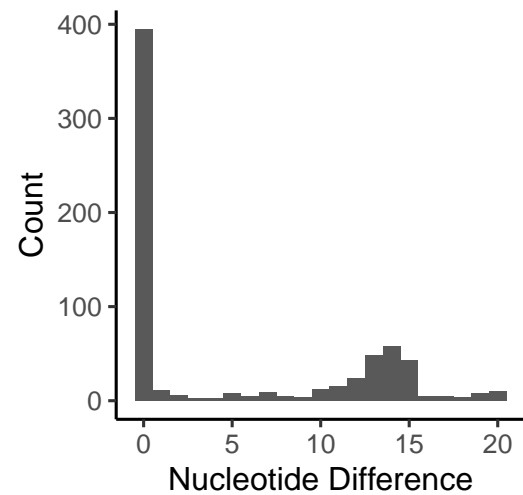
IGHV3-11*06

204 sequences assigned
123 (60.3%) exact matches, in which:
101 unique CDR3
6 unique J



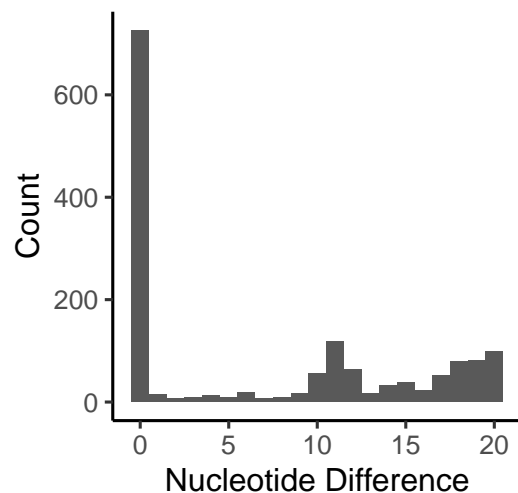
IGHV3-15*01_02

761 sequences assigned
395 (51.9%) exact matches, in which:
325 unique CDR3
7 unique J



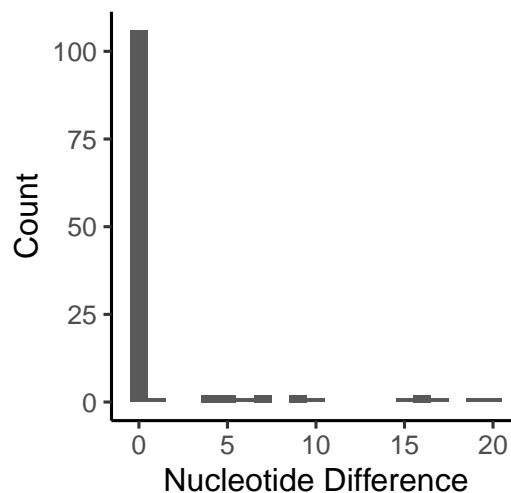
IGHV3-9*01

1567 sequences assigned
726 (46.3%) exact matches, in which:
593 unique CDR3
6 unique J



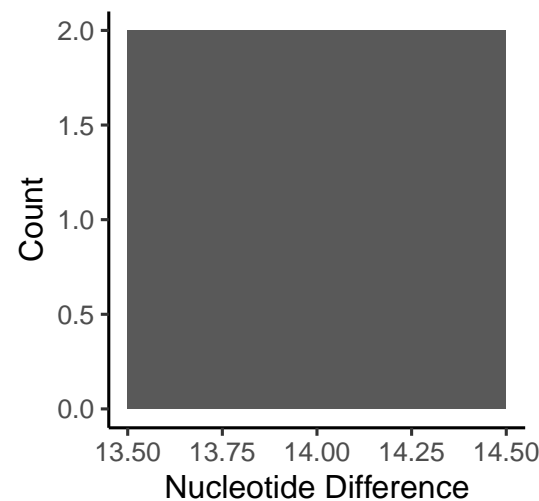
IGHV3-13*01

133 sequences assigned
106 (79.7%) exact matches, in which:
82 unique CDR3
6 unique J



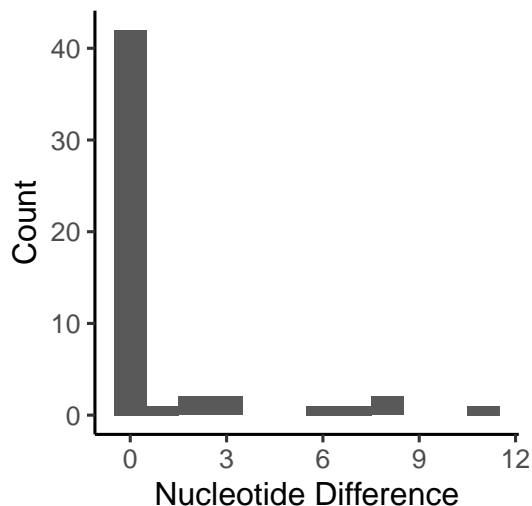
IGHV3-19*01

2 sequences assigned
No exact matches.



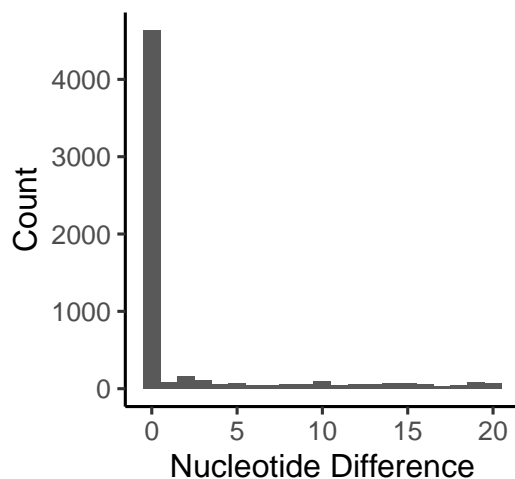
IGHV3-20*01_02

52 sequences assigned
42 (80.8%) exact matches, in which:
37 unique CDR3
6 unique J



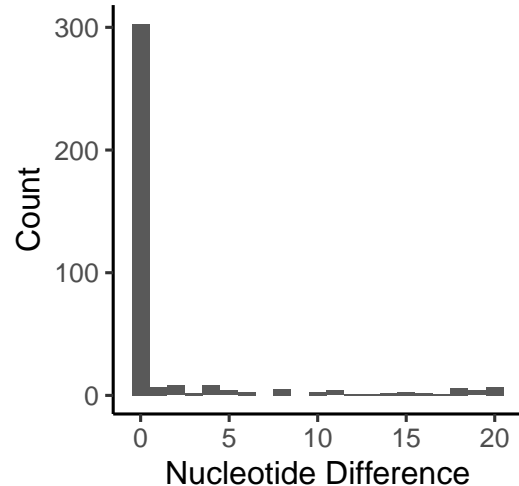
IGHV3-23*01_04

6728 sequences assigned
4633 (68.9%) exact matches, in which:
3617 unique CDR3
7 unique J



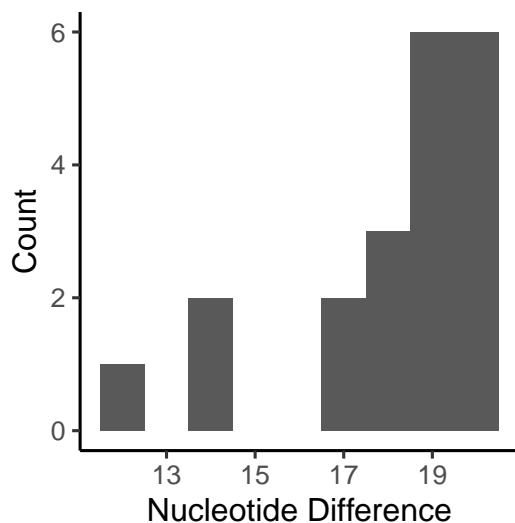
IGHV3-48*01

426 sequences assigned
303 (71.1%) exact matches, in which:
244 unique CDR3
6 unique J



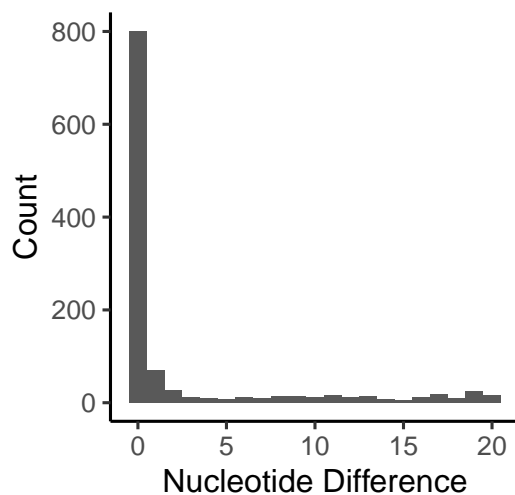
IGHV3-20*03_04

35 sequences assigned
No exact matches.



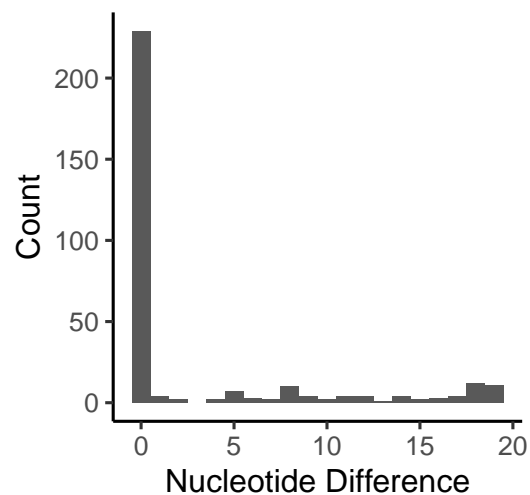
IGHV3-33*01

1280 sequences assigned
801 (62.6%) exact matches, in which:
673 unique CDR3
7 unique J



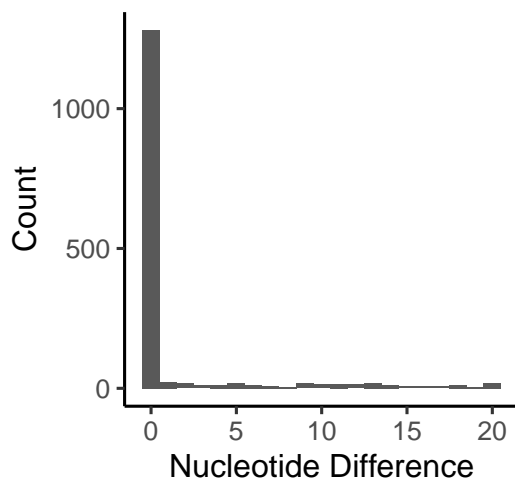
IGHV3-48*02

348 sequences assigned
229 (65.8%) exact matches, in which:
184 unique CDR3
6 unique J



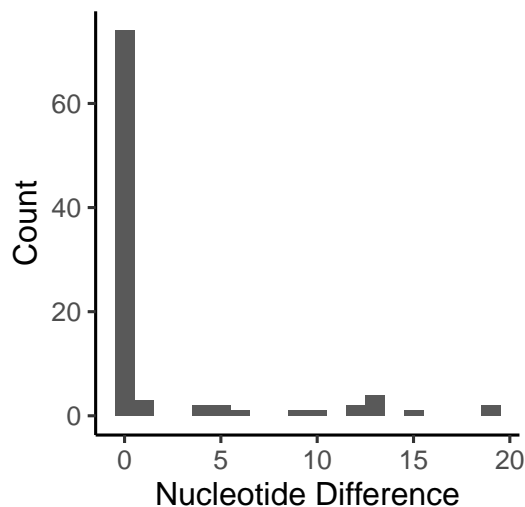
IGHV3-21*01_02

1697 sequences assigned
1281 (75.5%) exact matches, in which:
1021 unique CDR3
7 unique J



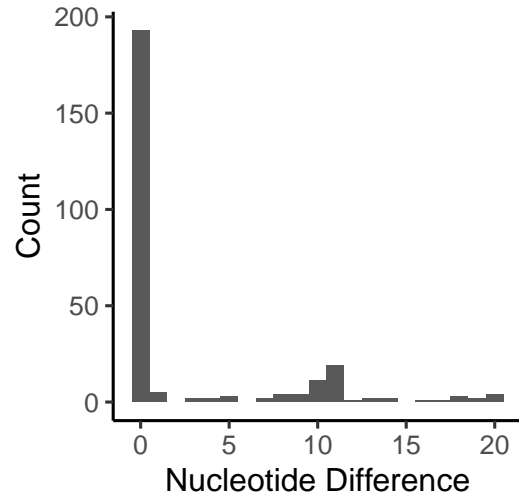
IGHV3-43*01

126 sequences assigned
74 (58.7%) exact matches, in which:
59 unique CDR3
7 unique J



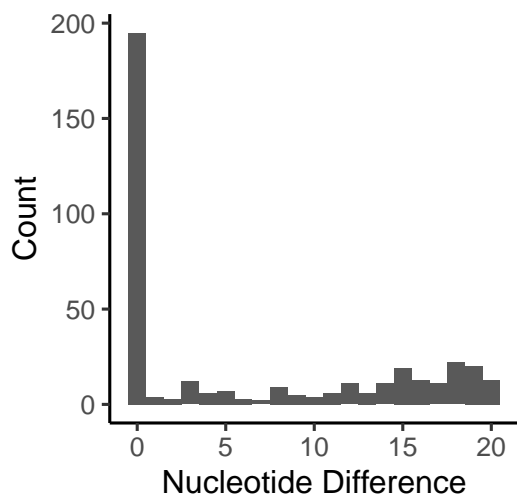
IGHV3-49*03_05

277 sequences assigned
193 (69.7%) exact matches, in which:
161 unique CDR3
5 unique J



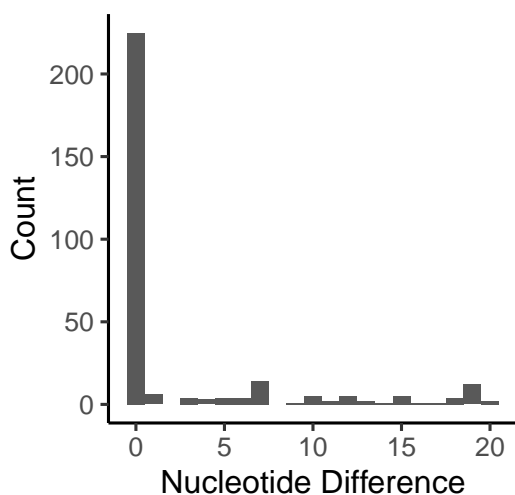
IGHV3–53*01_02

450 sequences assigned
195 (43.3%) exact matches, in which:
160 unique CDR3
6 unique J



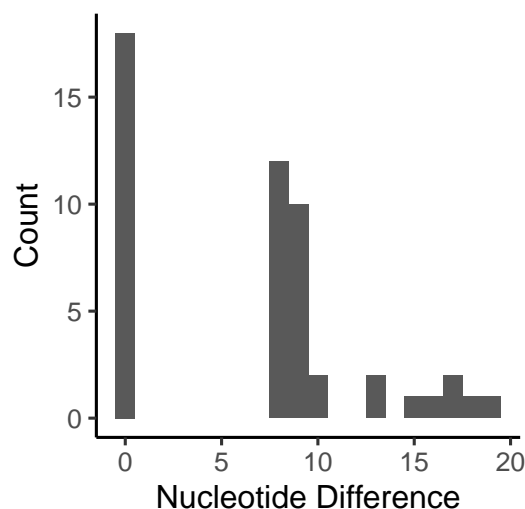
IGHV3–66*01

377 sequences assigned
225 (59.7%) exact matches, in which:
190 unique CDR3
6 unique J



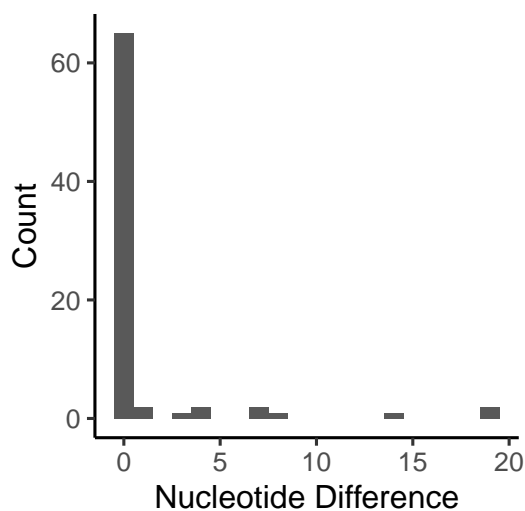
IGHV3–72*01

64 sequences assigned
18 (28.1%) exact matches, in which:
16 unique CDR3
5 unique J



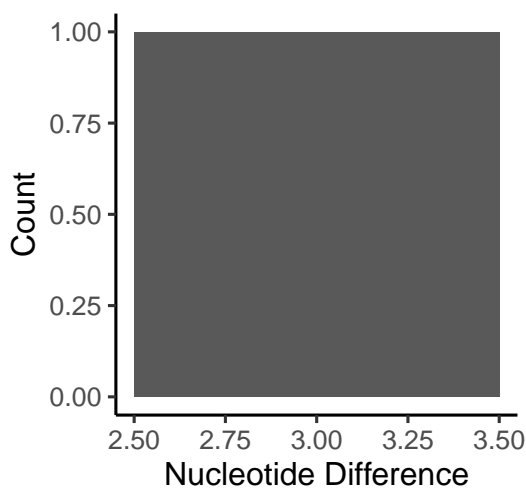
IGHV3–64*01

78 sequences assigned
65 (83.3%) exact matches, in which:
49 unique CDR3
5 unique J



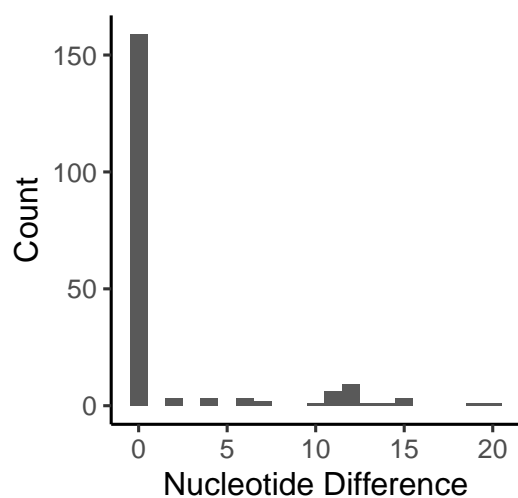
IGHV3–69–1*01

5 sequences assigned
No exact matches.



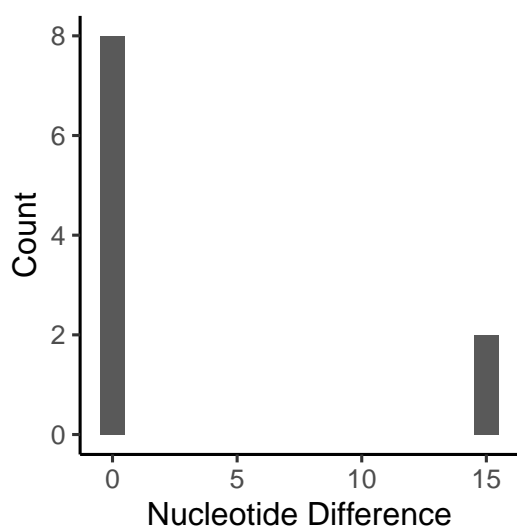
IGHV3–73*01_02

203 sequences assigned
159 (78.3%) exact matches, in which:
130 unique CDR3
6 unique J



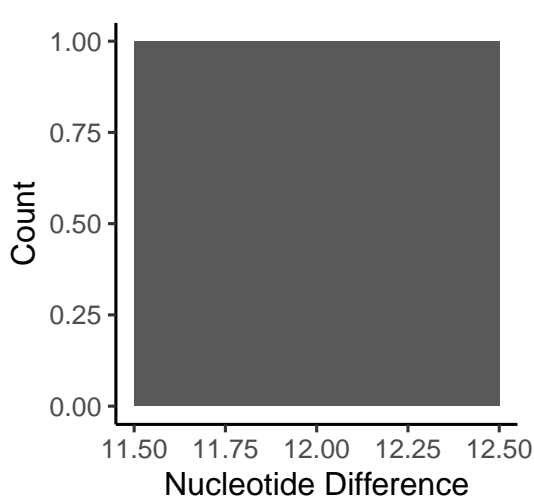
IGHV3–64*02_07

13 sequences assigned
8 (61.5%) exact matches, in which:
6 unique CDR3
3 unique J



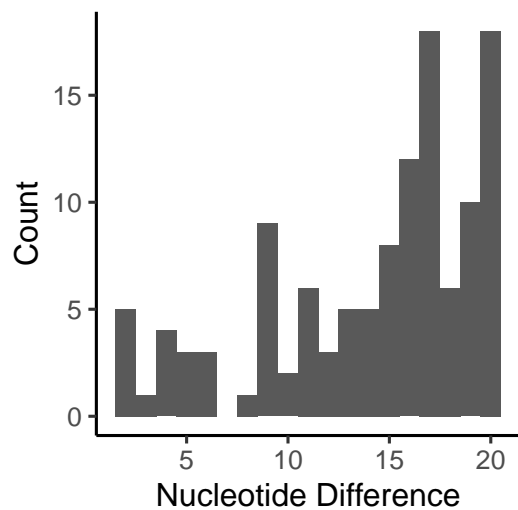
IGHV3–69–1*02

2 sequences assigned
No exact matches.



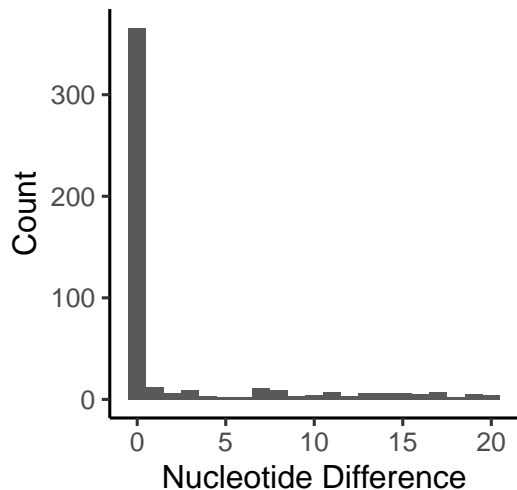
IGHV3–74*03

333 sequences assigned
No exact matches.



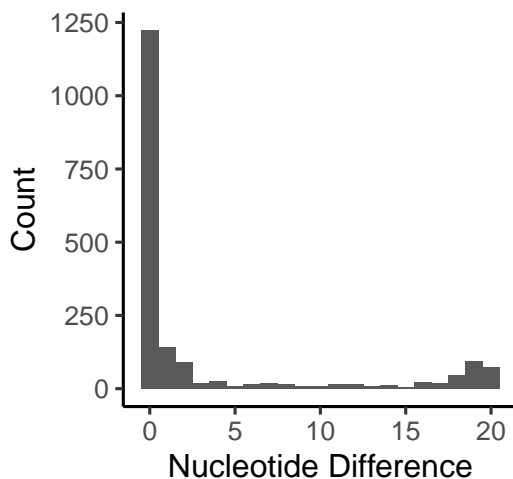
IGHV3–74*01_02

567 sequences assigned
366 (64.6%) exact matches, in which:
289 unique CDR3
7 unique J



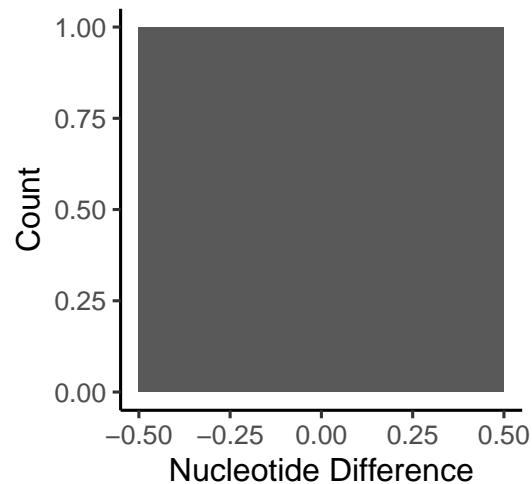
IGHV4–4*07

1992 sequences assigned
1223 (61.4%) exact matches, in which:
1207 unique CDR3
7 unique J



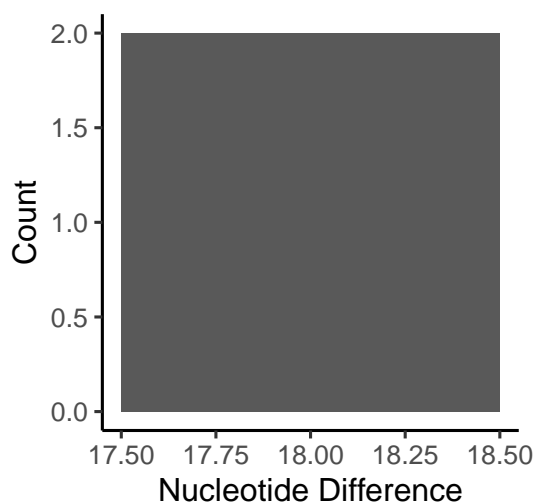
IGHV4–28*02_05

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



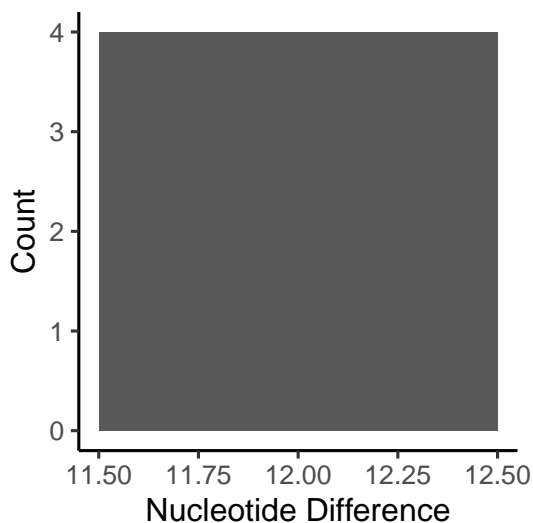
IGHV3–43D*04

2 sequences assigned
No exact matches.



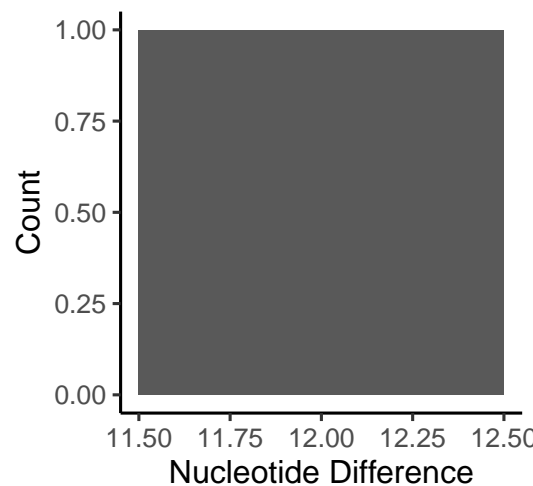
IGHV4–28*04

11 sequences assigned
No exact matches.



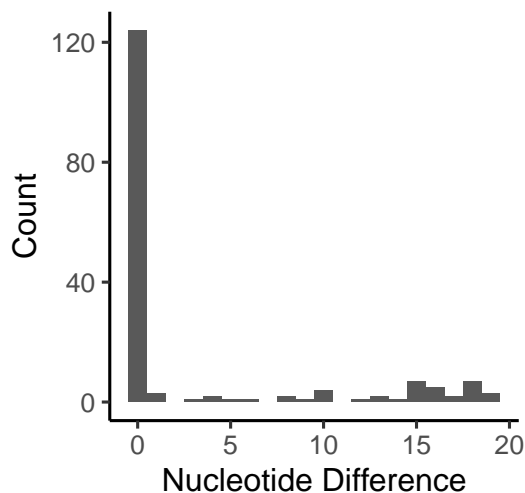
IGHV4–30–4*01

3 sequences assigned
No exact matches.



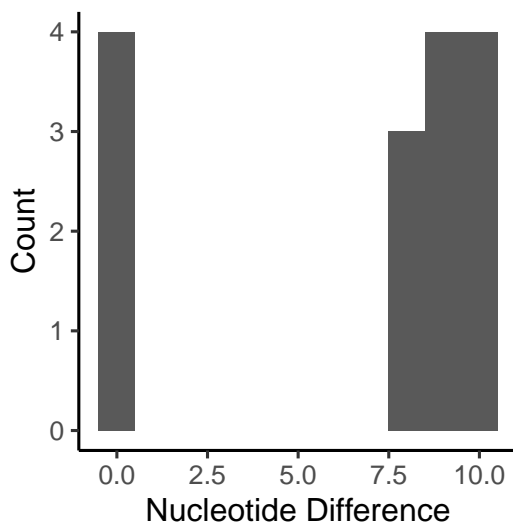
IGHV3–64D*06

212 sequences assigned
124 (58.5%) exact matches, in which:
105 unique CDR3
6 unique J



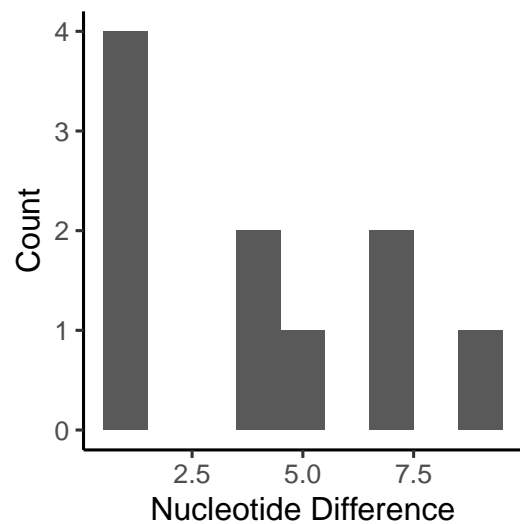
IGHV4–28*01_07

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



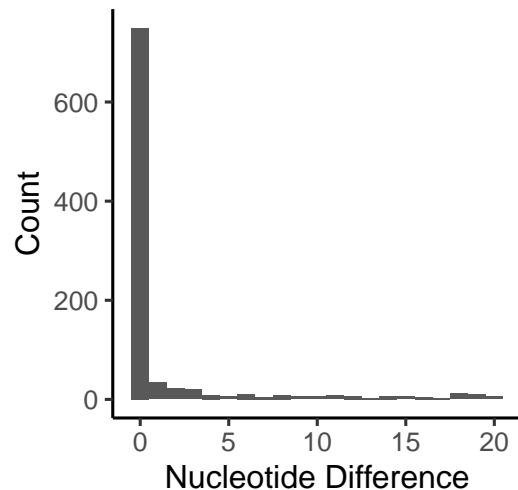
IGHV4–30–2*03_T288C

16 sequences assigned
No exact matches.



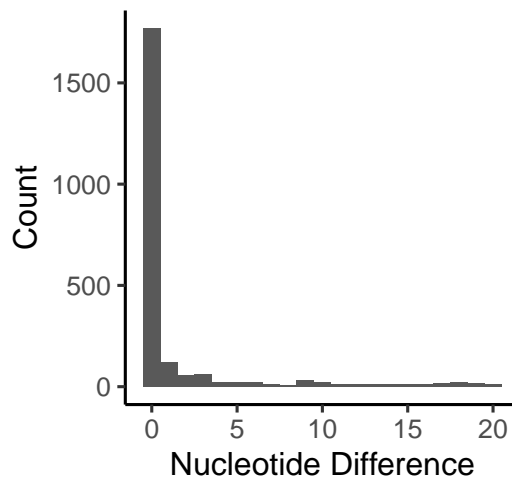
IGHV4-31*02

1054 sequences assigned
750 (71.2%) exact matches, in which:
733 unique CDR3
7 unique J



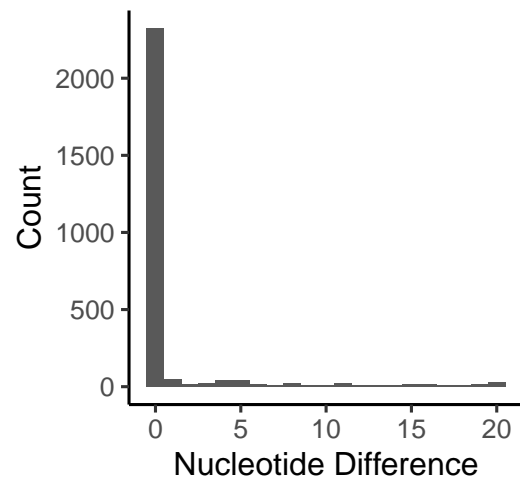
IGHV4-39*02_C258G

2987 sequences assigned
1769 (59.2%) exact matches, in which:
1710 unique CDR3
7 unique J



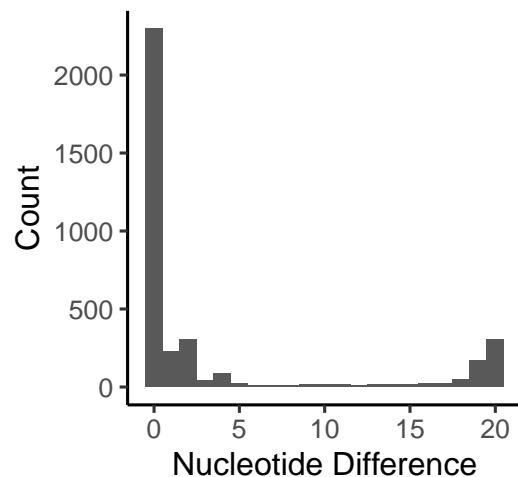
IGHV4-59*02_G88A

3158 sequences assigned
2323 (73.6%) exact matches, in which:
2306 unique CDR3
7 unique J



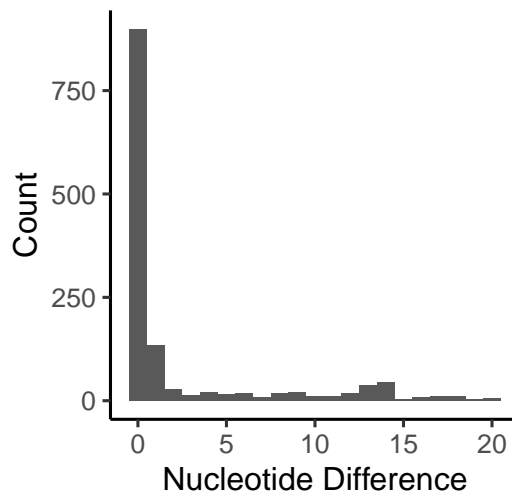
IGHV4-34*01_02

3868 sequences assigned
2297 (59.4%) exact matches, in which:
2241 unique CDR3
7 unique J



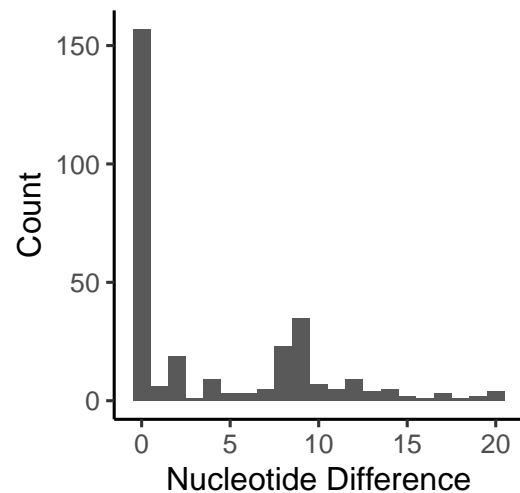
IGHV4-59*08

1648 sequences assigned
899 (54.6%) exact matches, in which:
888 unique CDR3
7 unique J



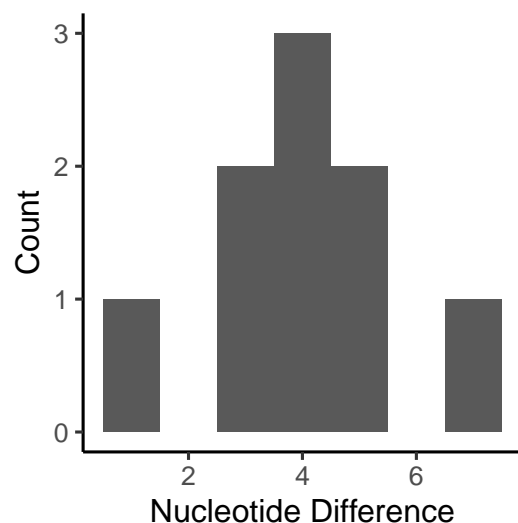
IGHV4-61*01

332 sequences assigned
157 (47.3%) exact matches, in which:
157 unique CDR3
7 unique J



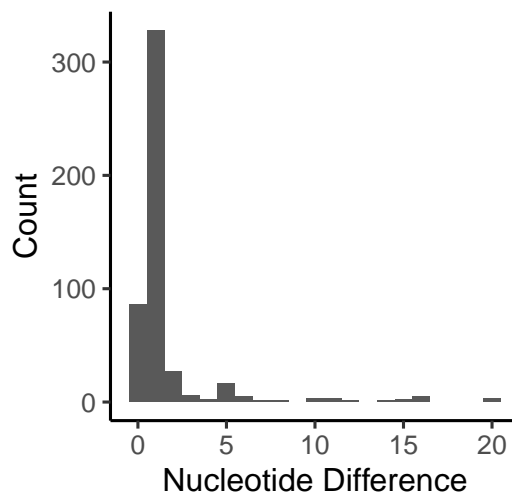
IGHV4-38-2*02

10 sequences assigned
No exact matches.



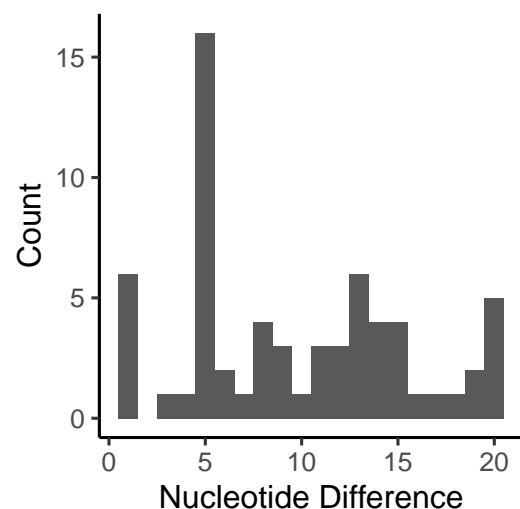
IGHV4-59*12

510 sequences assigned
86 (16.9%) exact matches, in which:
86 unique CDR3
6 unique J



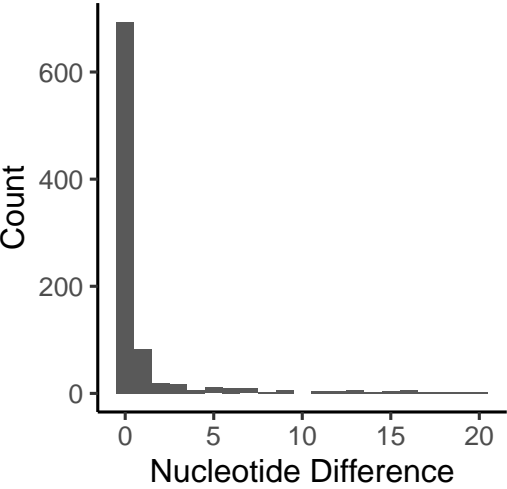
IGHV4-61*08

473 sequences assigned
No exact matches.



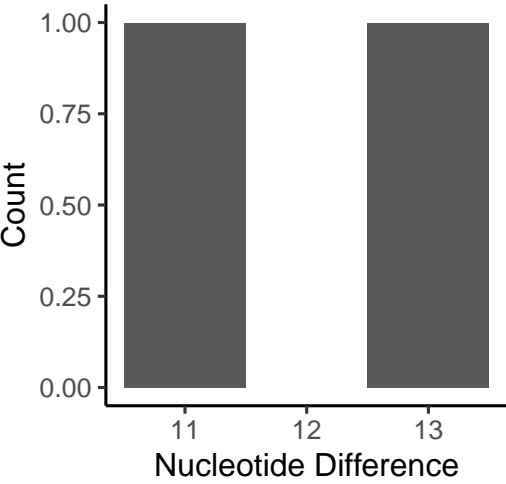
IGHV5-10-1*01_03

935 sequences assigned
694 (74.2%) exact matches, in which:
660 unique CDR3
7 unique J



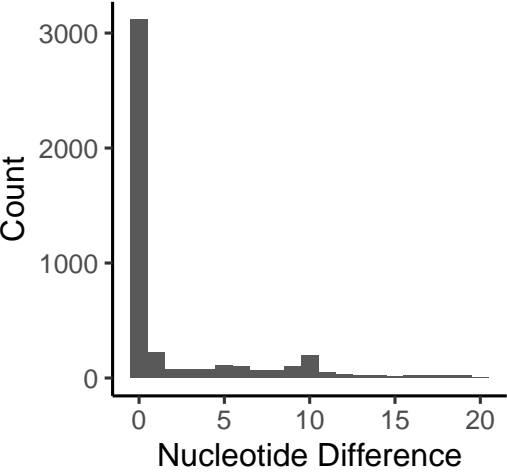
IGHV7-4-1*02

2 sequences assigned
No exact matches.



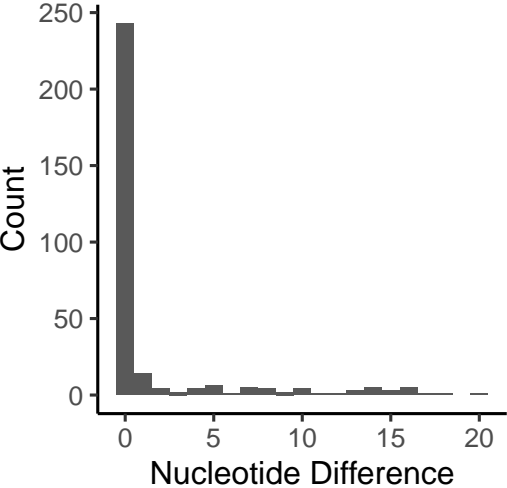
IGHV5-51*07_A128G

4507 sequences assigned
3116 (69.1%) exact matches, in which:
2812 unique CDR3
7 unique J

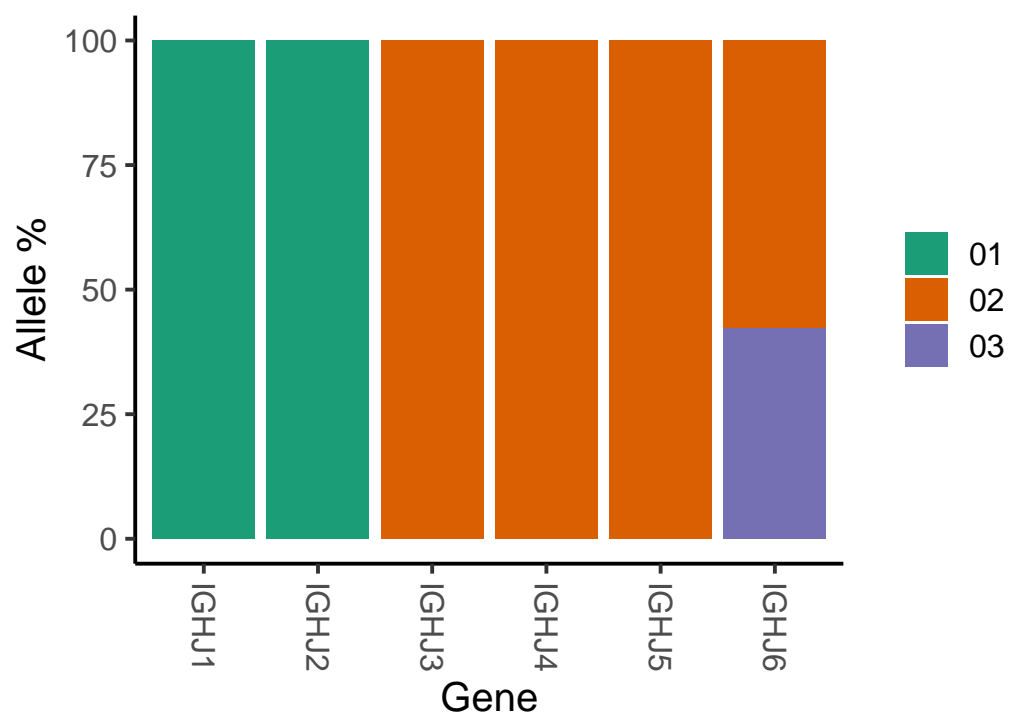


IGHV6-1*01_02

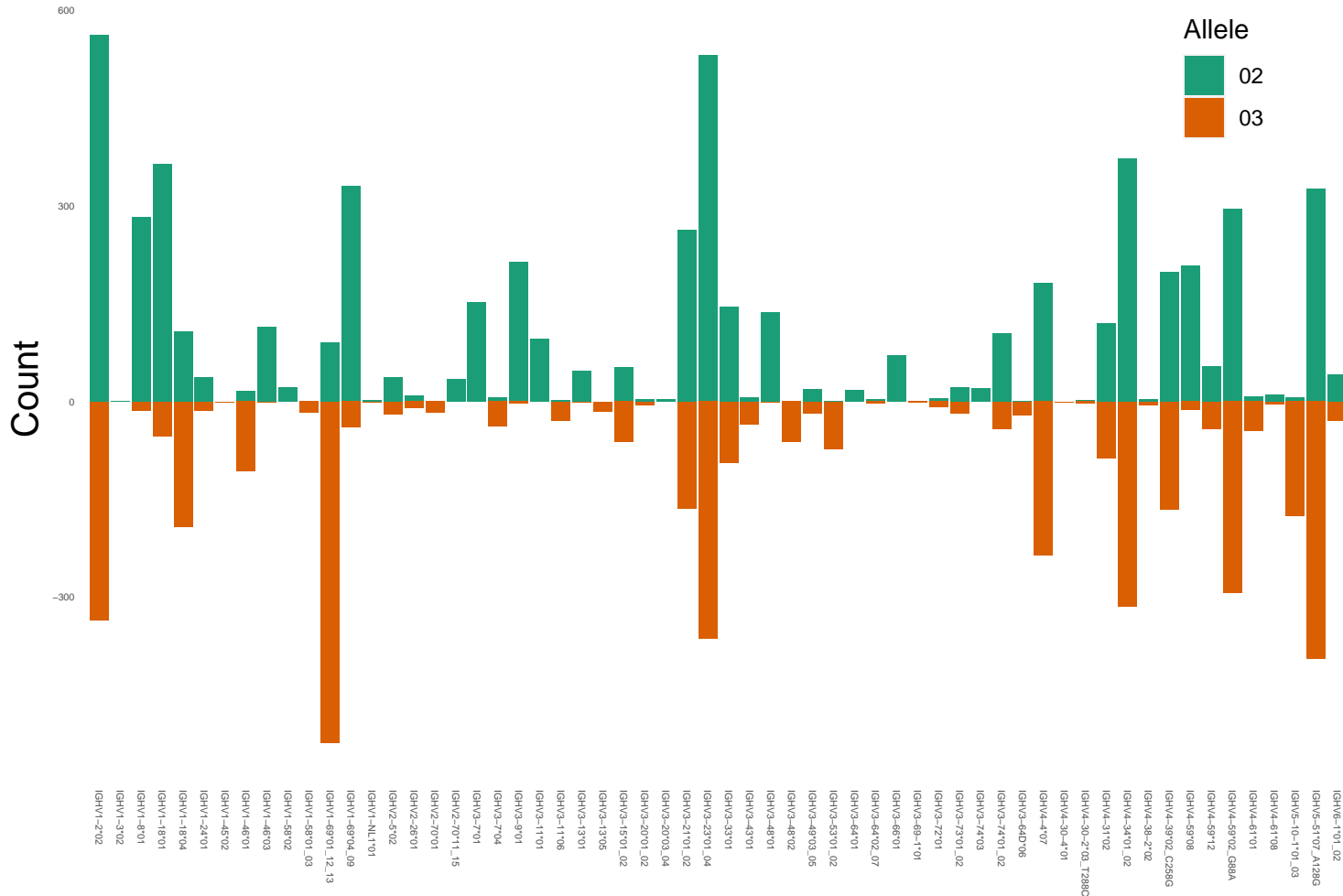
325 sequences assigned
243 (74.8%) exact matches, in which:
241 unique CDR3
7 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.