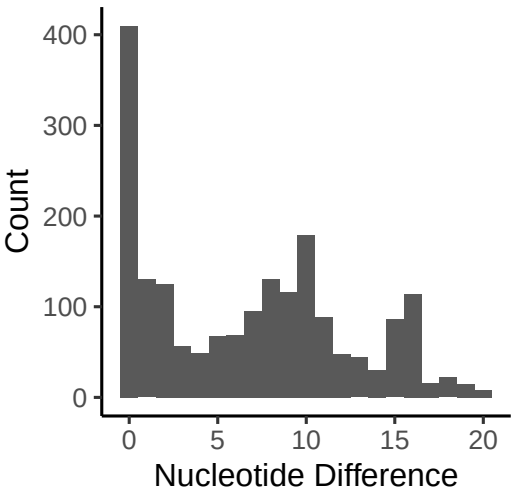
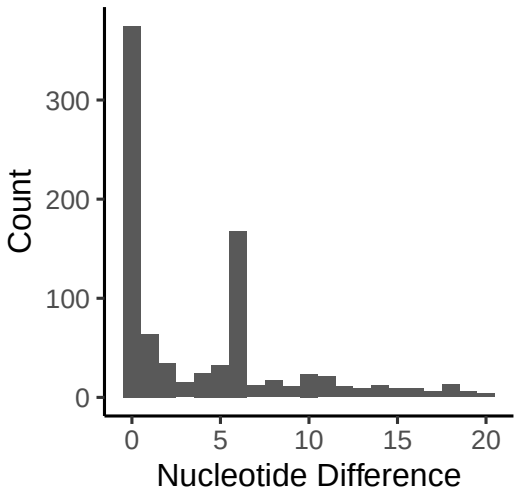
IGHV1−2*02

2221 sequences assigned
410 (18.5%) exact matches, in which:
385 unique CDR3
6 unique J



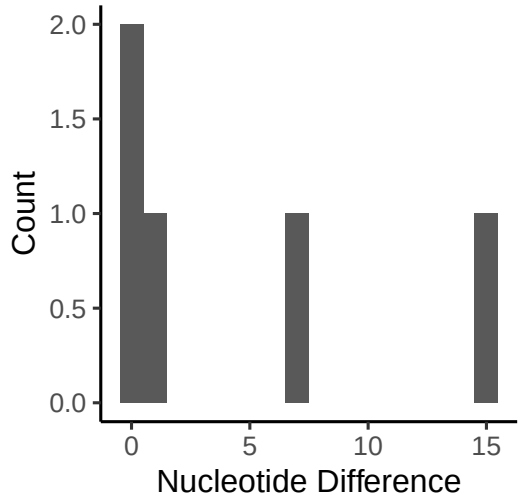
IGHV1−18*01

1232 sequences assigned
375 (30.4%) exact matches, in which:
353 unique CDR3
6 unique J



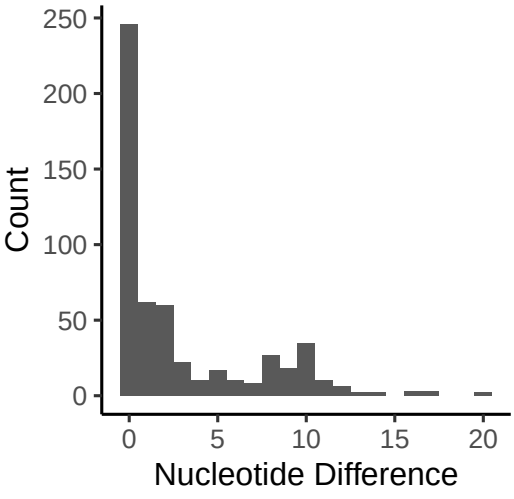
IGHV1−45*02

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



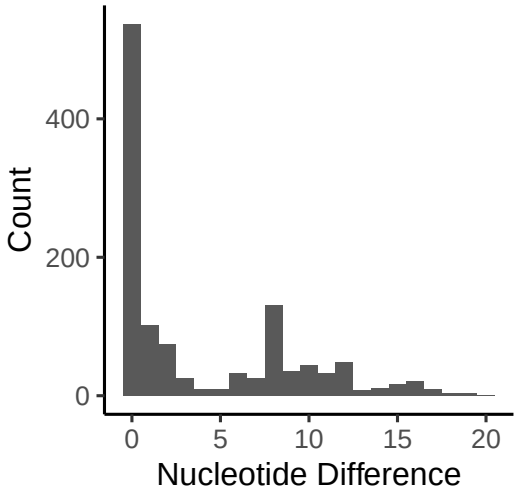
IGHV1−2*04

547 sequences assigned
246 (45%) exact matches, in which:
235 unique CDR3
6 unique J



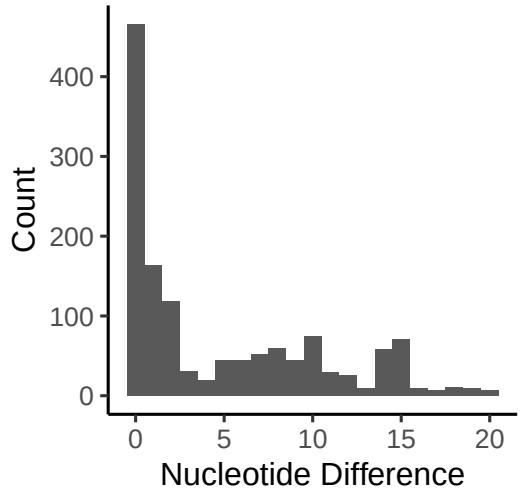
IGHV1−18*04

1315 sequences assigned
537 (40.8%) exact matches, in which:
504 unique CDR3
6 unique J



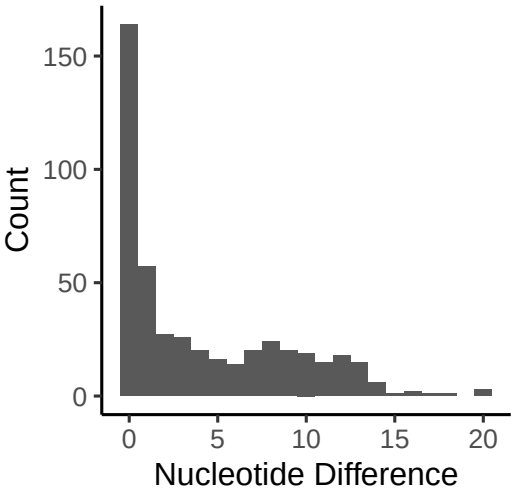
IGHV1−46*01

1501 sequences assigned
466 (31%) exact matches, in which:
436 unique CDR3
6 unique J



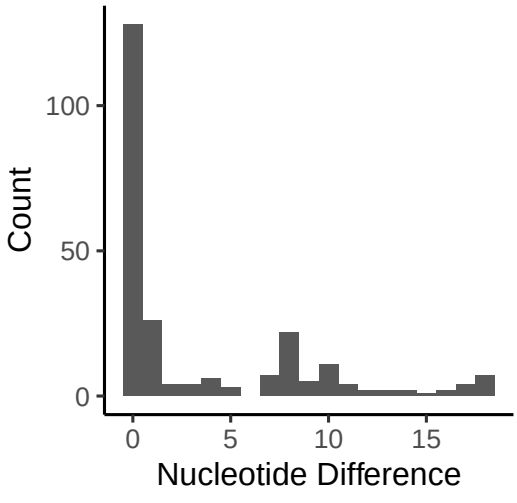
IGHV1−3*01_05

573 sequences assigned
164 (28.6%) exact matches, in which:
149 unique CDR3
6 unique J



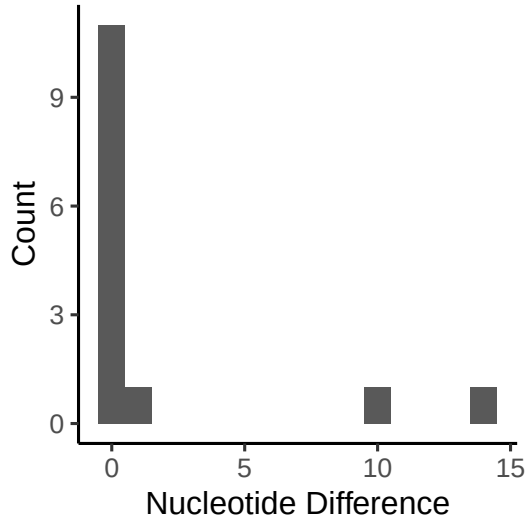
IGHV1−24*01

372 sequences assigned
128 (34.4%) exact matches, in which:
123 unique CDR3
6 unique J



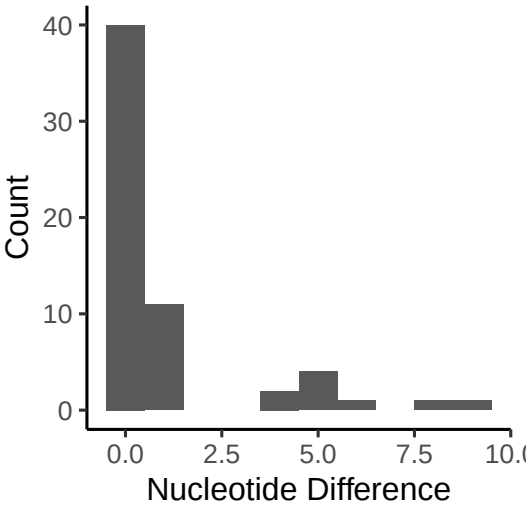
IGHV1−58*02

14 sequences assigned
11 (78.6%) exact matches, in which:
10 unique CDR3
4 unique J



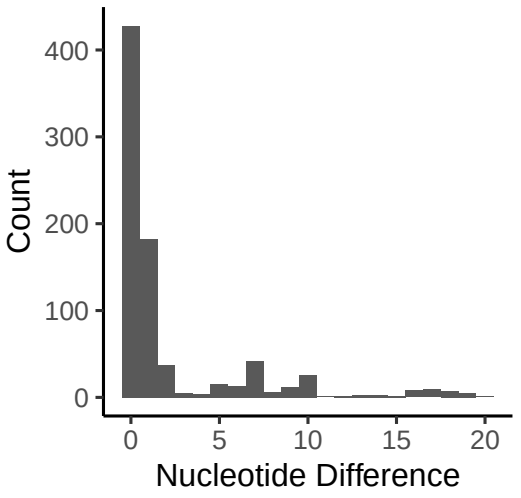
IGHV1−58*01_03

60 sequences assigned
40 (66.7%) exact matches, in which:
33 unique CDR3
5 unique J



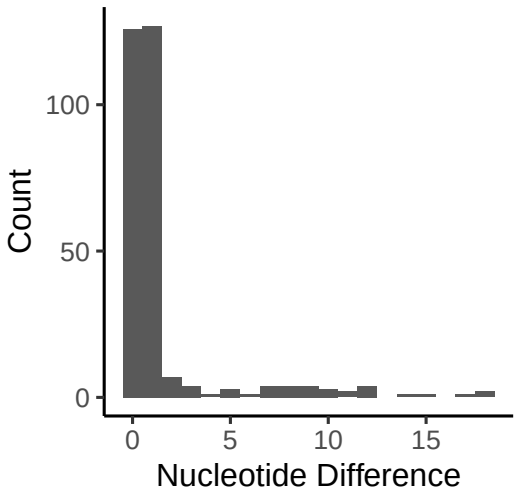
IGHV1−69*04_09

991 sequences assigned
428 (43.2%) exact matches, in which:
410 unique CDR3
6 unique J



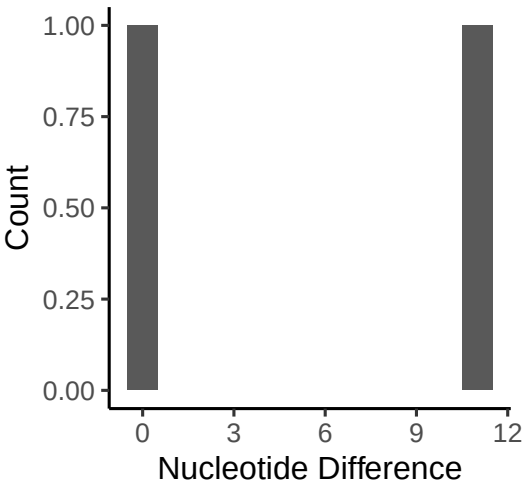
IGHV2−26*01

337 sequences assigned
126 (37.4%) exact matches, in which:
92 unique CDR3
5 unique J



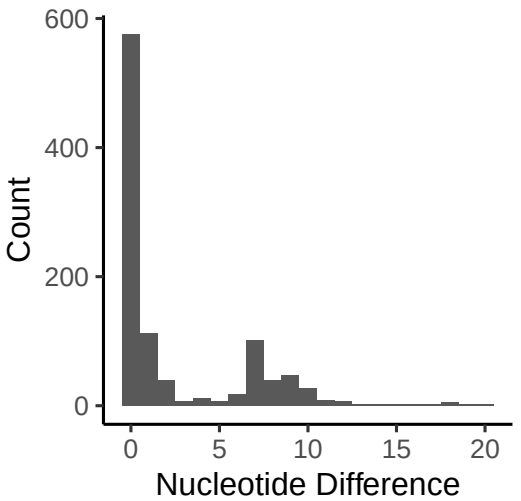
IGHV1−69−2*01

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



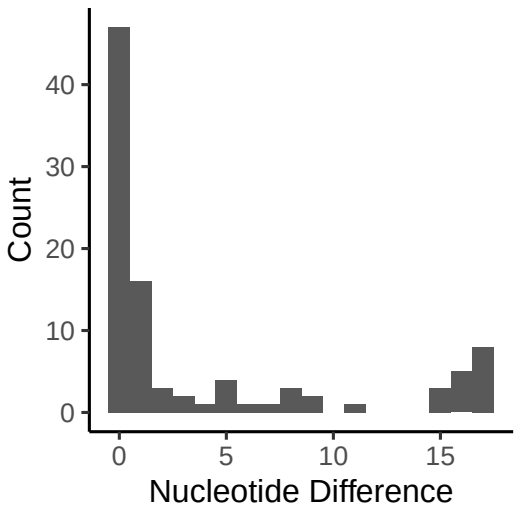
IGHV1−69*06_14

1080 sequences assigned
576 (53.3%) exact matches, in which:
565 unique CDR3
6 unique J



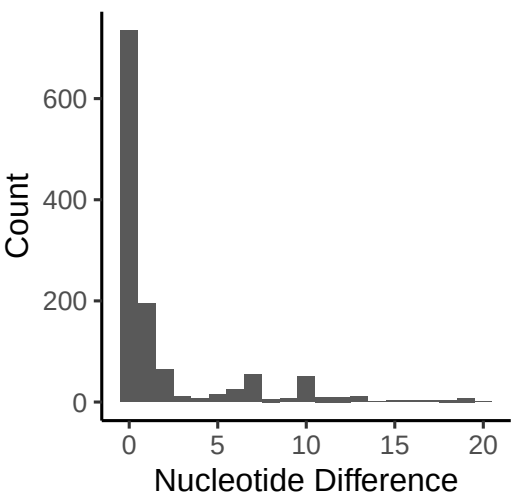
IGHV2−70*01

105 sequences assigned
47 (44.8%) exact matches, in which:
44 unique CDR3
5 unique J



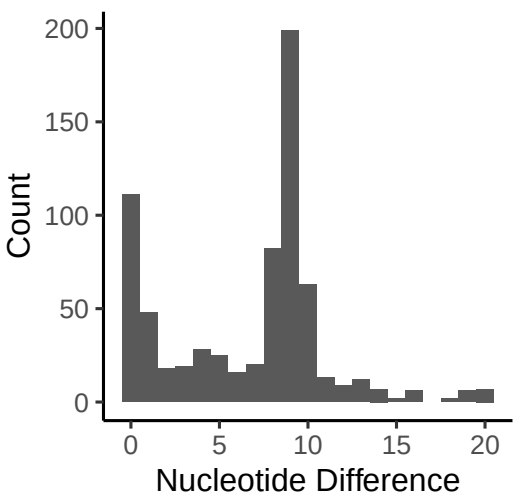
IGHV1−69*01_12_13

1272 sequences assigned
735 (57.8%) exact matches, in which:
713 unique CDR3
6 unique J



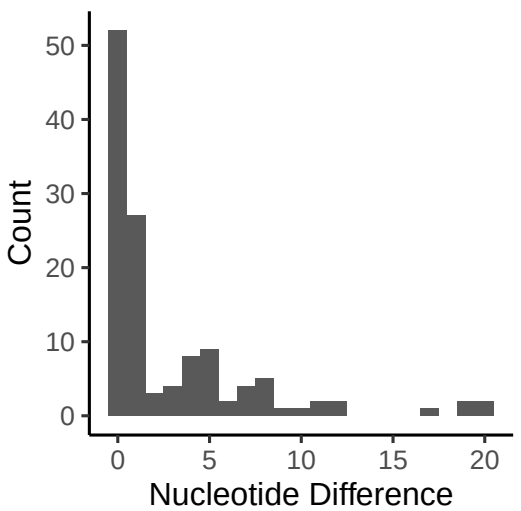
IGHV2−5*02

841 sequences assigned
111 (13.2%) exact matches, in which:
106 unique CDR3
6 unique J



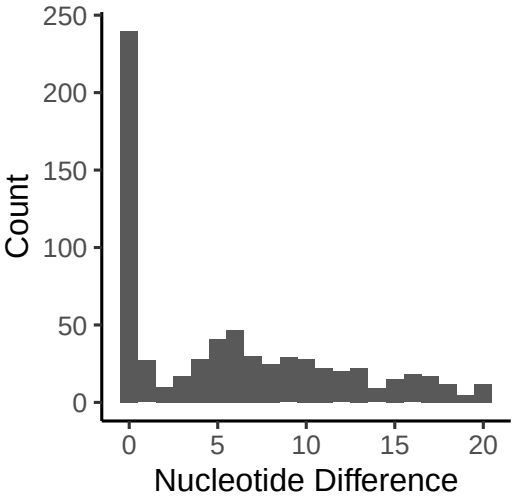
IGHV2−70*11_15

134 sequences assigned
52 (38.8%) exact matches, in which:
49 unique CDR3
4 unique J



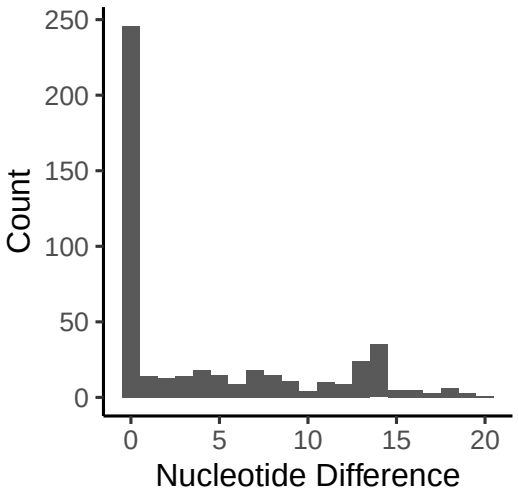
IGHV3−7*03

1104 sequences assigned
240 (21.7%) exact matches, in which:
131 unique CDR3
6 unique J



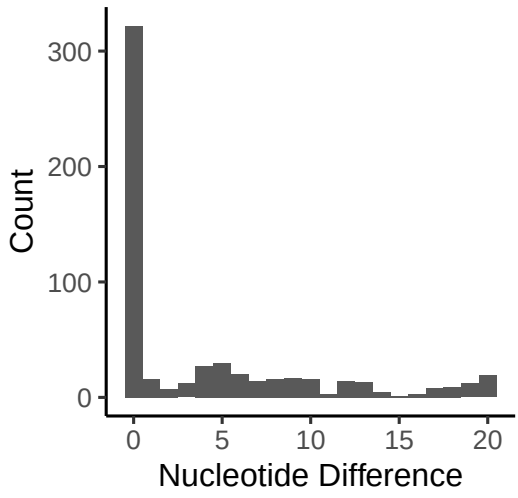
IGHV3−11*06_T300C

535 sequences assigned
246 (46%) exact matches, in which:
135 unique CDR3
6 unique J



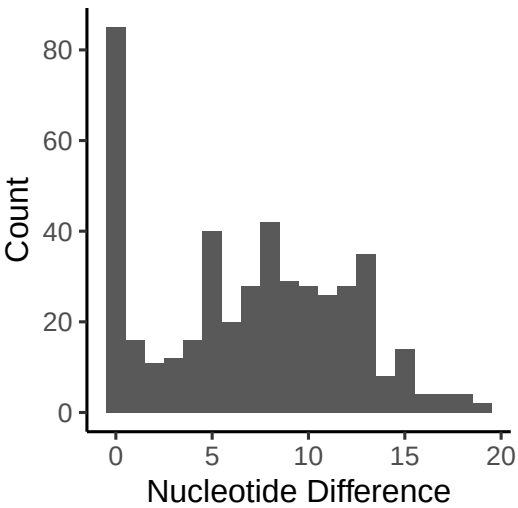
IGHV3−15*01_02

650 sequences assigned
322 (49.5%) exact matches, in which:
180 unique CDR3
5 unique J



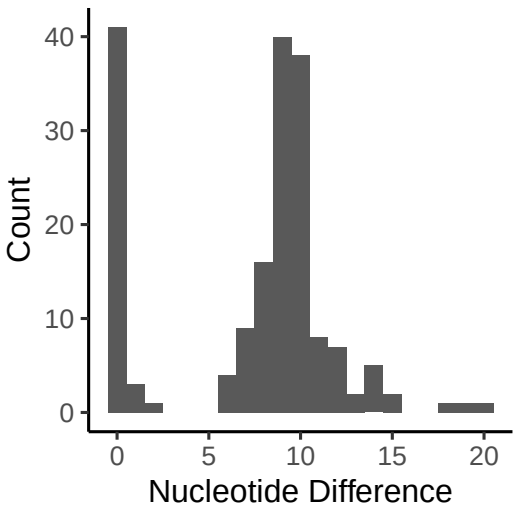
IGHV3−7*04

468 sequences assigned
85 (18.2%) exact matches, in which:
45 unique CDR3
5 unique J



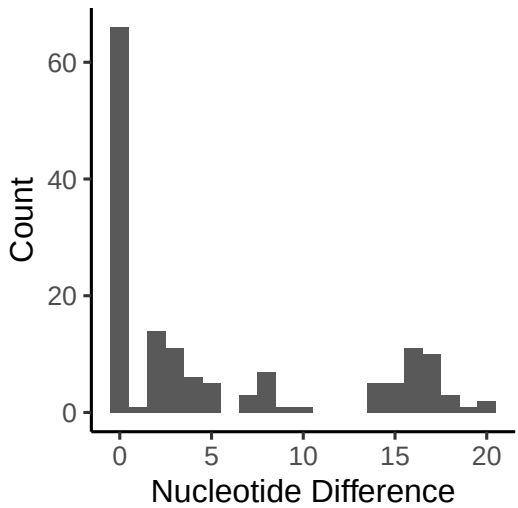
IGHV3−13*04

181 sequences assigned
41 (22.7%) exact matches, in which:
20 unique CDR3
5 unique J



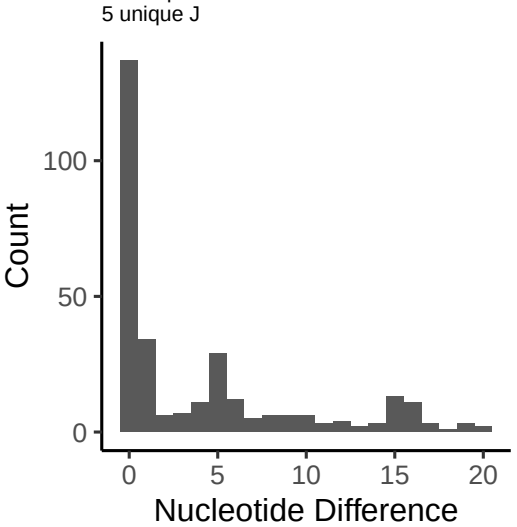
IGHV3−20*03_04

178 sequences assigned
66 (37.1%) exact matches, in which:
36 unique CDR3
5 unique J



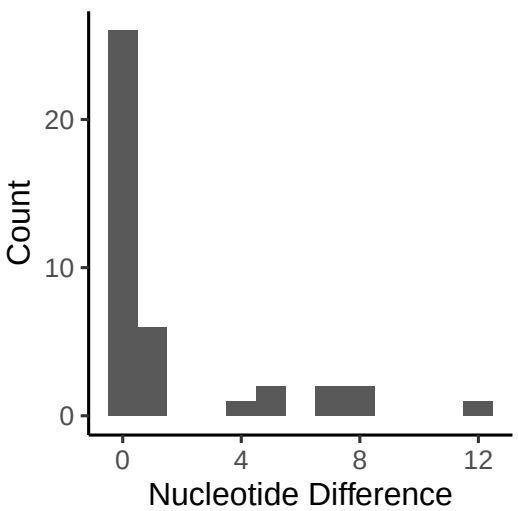
IGHV3−11*06

389 sequences assigned
137 (35.2%) exact matches, in which:
83 unique CDR3
5 unique J



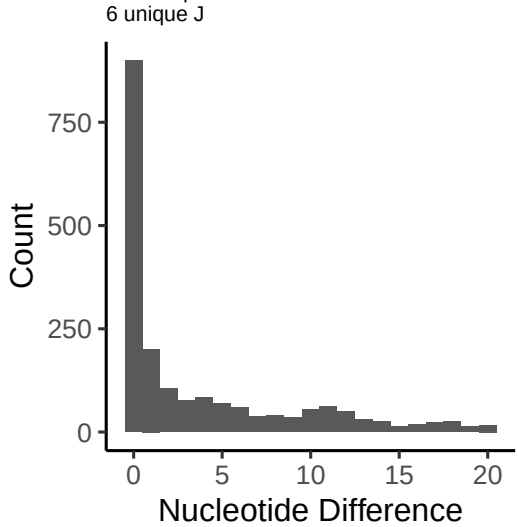
IGHV3−13*05

40 sequences assigned
26 (65%) exact matches, in which:
15 unique CDR3
6 unique J



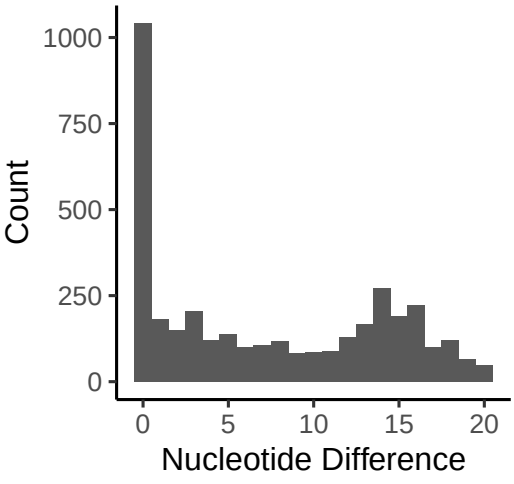
IGHV3−21*01_02

2118 sequences assigned
900 (42.5%) exact matches, in which:
498 unique CDR3
6 unique J



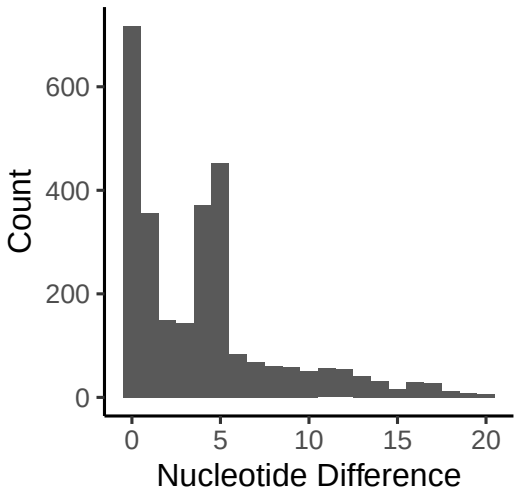
IGHV3−23*01_04

4237 sequences assigned
1041 (24.6%) exact matches, in which:
577 unique CDR3
6 unique J



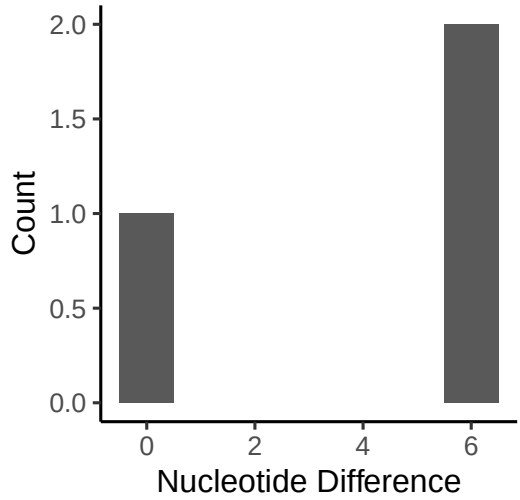
IGHV3−33*01

3041 sequences assigned
718 (23.6%) exact matches, in which:
408 unique CDR3
6 unique J



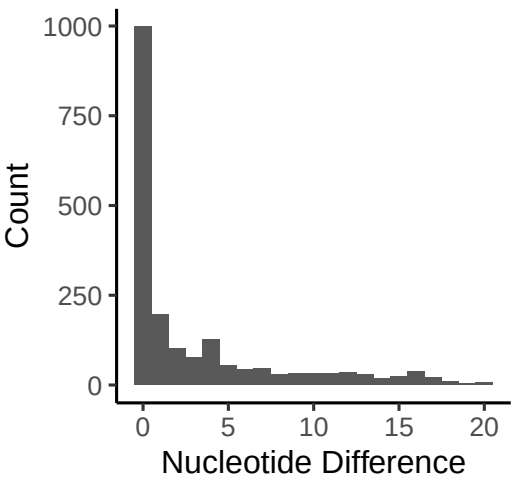
IGHV3−35*01

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



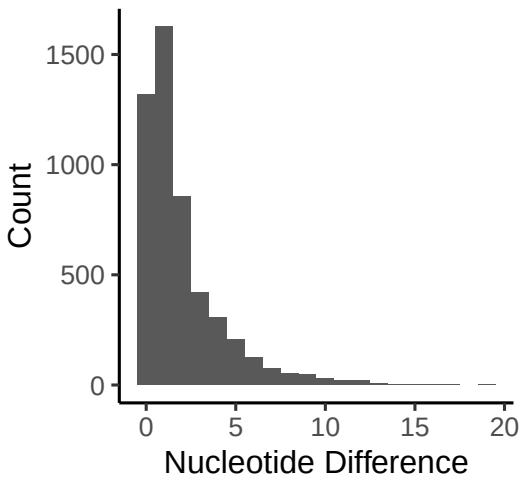
IGHV3−30−3*01

2065 sequences assigned
998 (48.3%) exact matches, in which:
567 unique CDR3
6 unique J



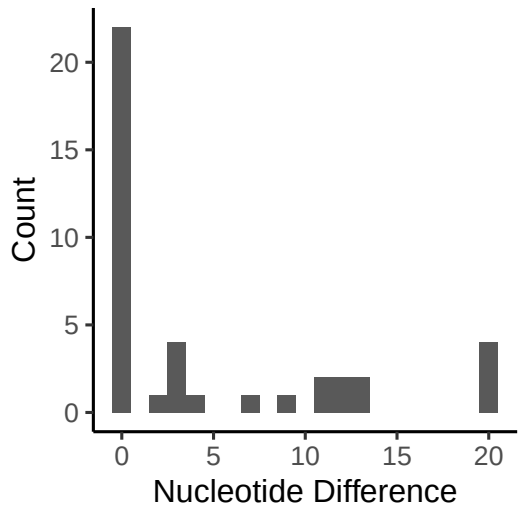
IGHV3−33*01_T105C_A

5127 sequences assigned
1319 (25.7%) exact matches, in which:
738 unique CDR3
6 unique J



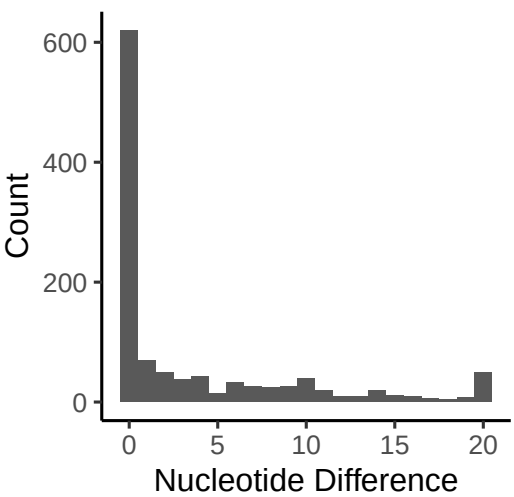
IGHV3−43*01

119 sequences assigned
22 (18.5%) exact matches, in which:
11 unique CDR3
3 unique J



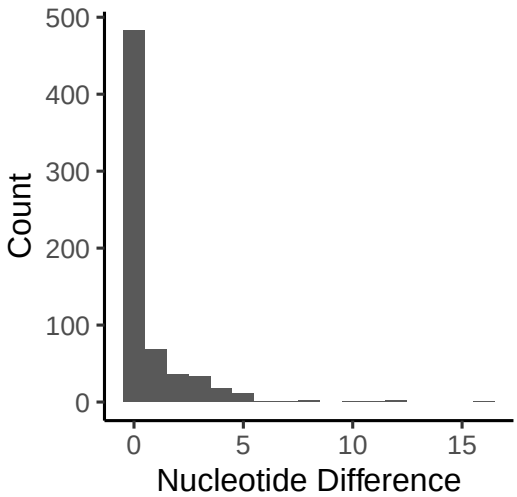
IGHV3−30*01

1279 sequences assigned
620 (48.5%) exact matches, in which:
376 unique CDR3
6 unique J



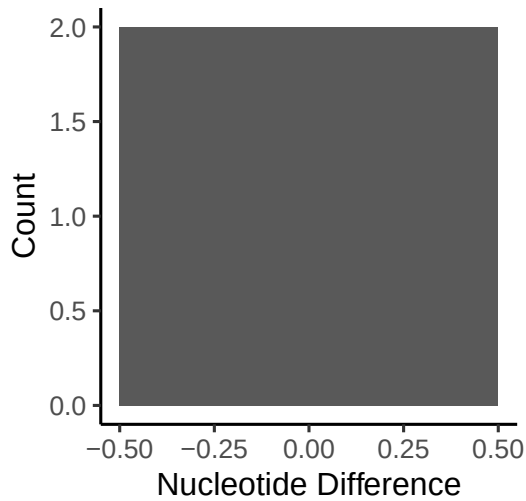
IGHV3−33*01_T105C_A1

658 sequences assigned
483 (73.4%) exact matches, in which:
368 unique CDR3
6 unique J



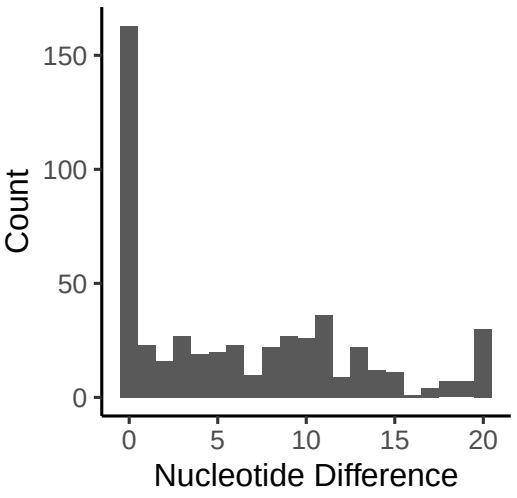
IGHV3−47*01

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



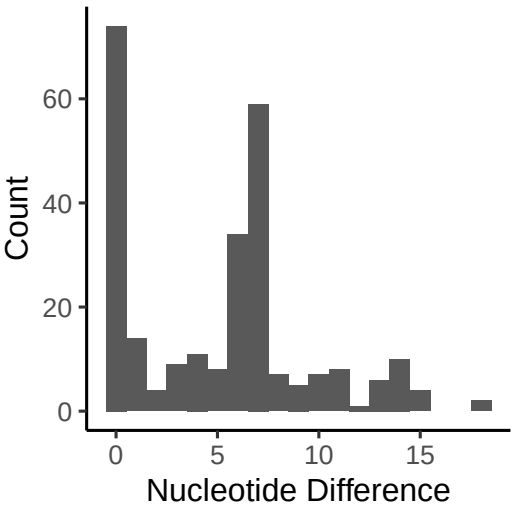
IGHV3−48*01

650 sequences assigned
163 (25.1%) exact matches, in which:
80 unique CDR3
6 unique J



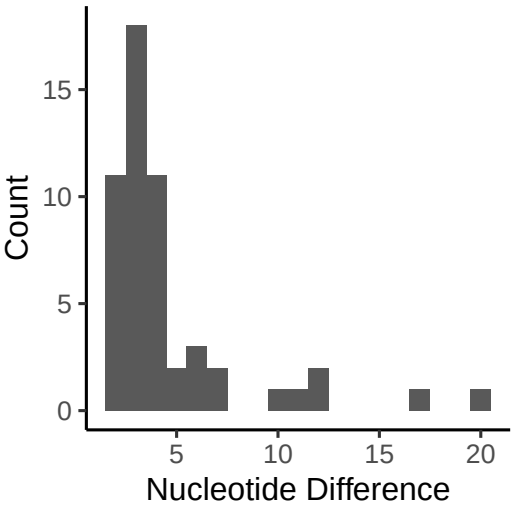
IGHV3−49*03_05

273 sequences assigned
74 (27.1%) exact matches, in which:
44 unique CDR3
6 unique J



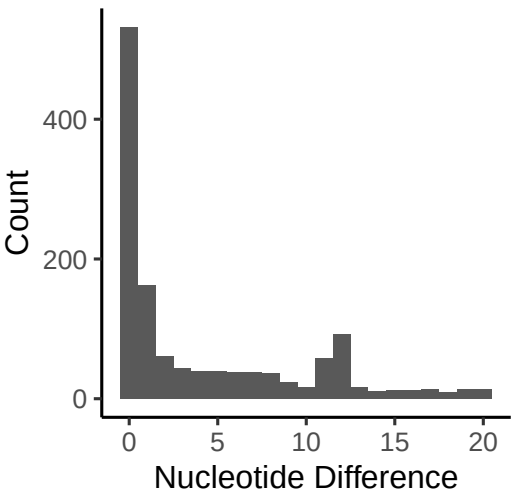
IGHV3−64*04

55 sequences assigned
No exact matches.



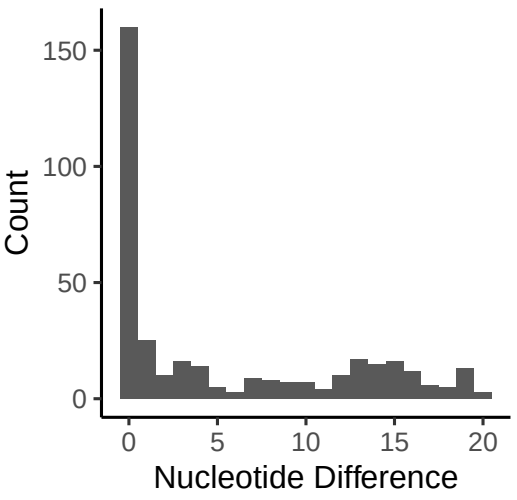
IGHV3−48*03

1467 sequences assigned
532 (36.3%) exact matches, in which:
293 unique CDR3
6 unique J



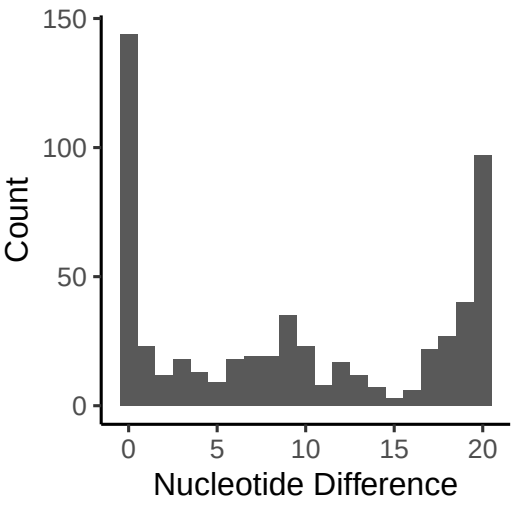
IGHV3−53*01_02

392 sequences assigned
160 (40.8%) exact matches, in which:
86 unique CDR3
6 unique J



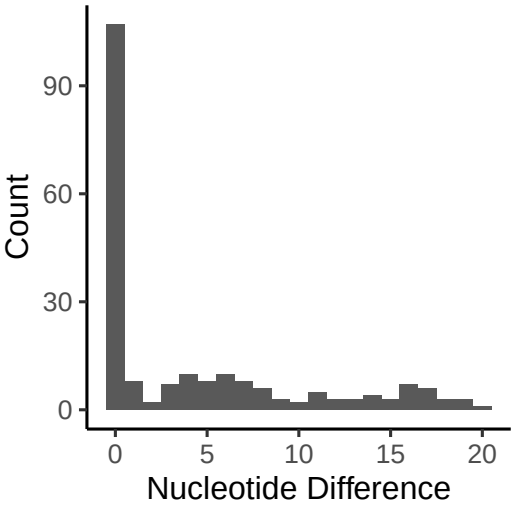
IGHV3−66*01

865 sequences assigned
144 (16.6%) exact matches, in which:
76 unique CDR3
6 unique J



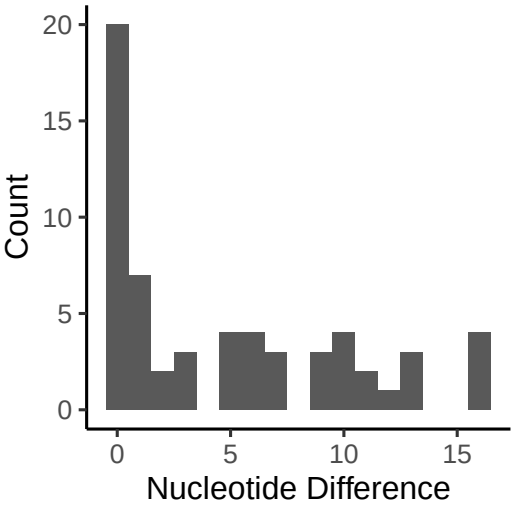
IGHV3−49*04

212 sequences assigned
107 (50.5%) exact matches, in which:
63 unique CDR3
6 unique J



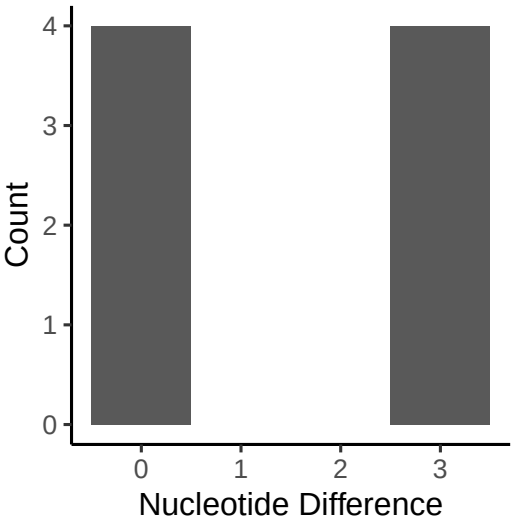
IGHV3−64*01

63 sequences assigned
20 (31.7%) exact matches, in which:
11 unique CDR3
5 unique J



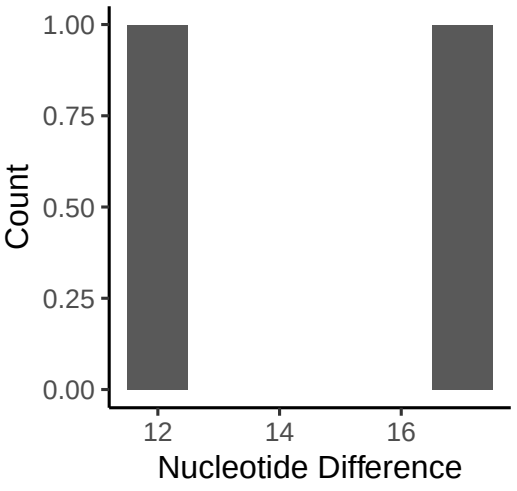
IGHV3−69−1*01

8 sequences assigned
4 (50%) exact matches, in which:
2 unique CDR3
2 unique J



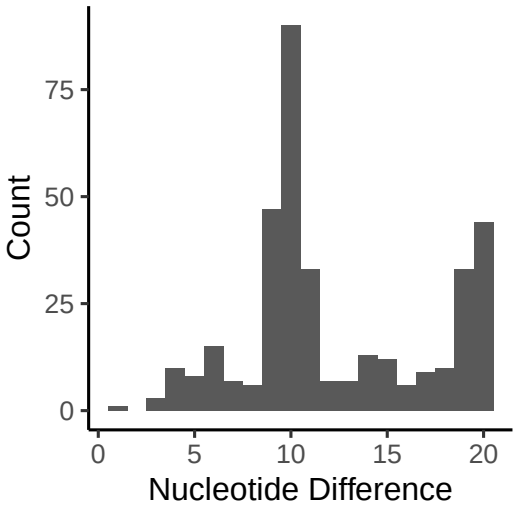
IGHV3−69−1*02

2 sequences assigned
No exact matches.



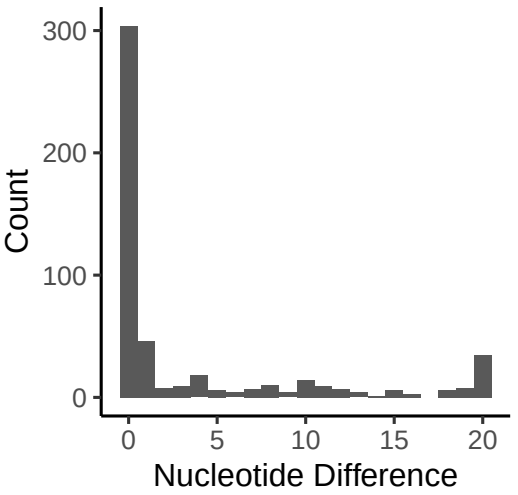
IGHV3−74*03

549 sequences assigned
No exact matches.



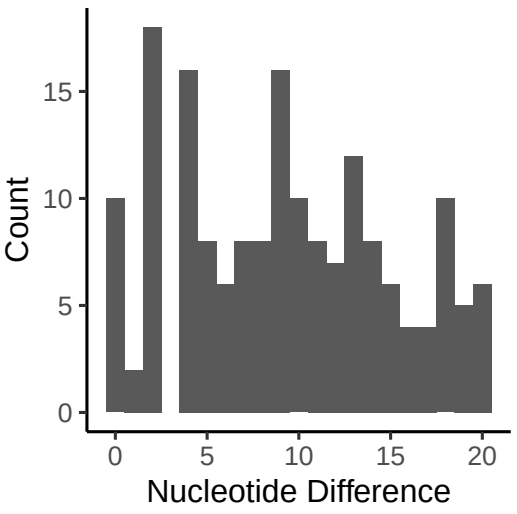
IGHV3−64D*06

574 sequences assigned
304 (53%) exact matches, in which:
132 unique CDR3
6 unique J



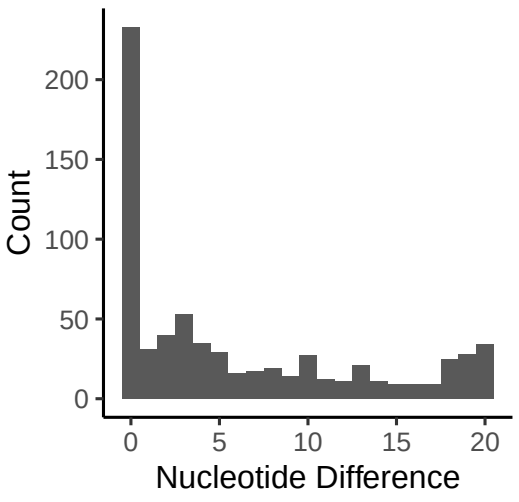
IGHV3−72*01

177 sequences assigned
10 (5.6%) exact matches, in which:
5 unique CDR3
3 unique J



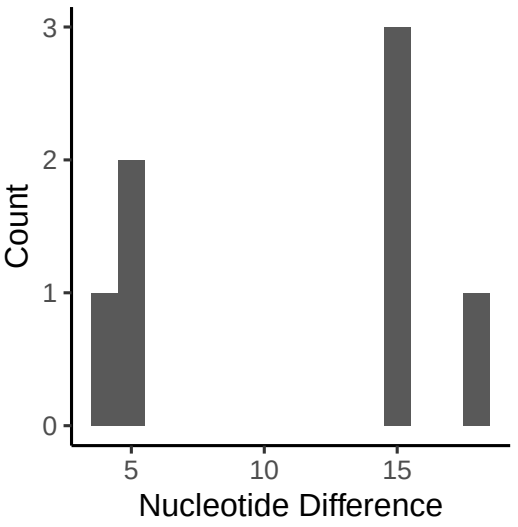
IGHV3−74*01_02

968 sequences assigned
233 (24.1%) exact matches, in which:
119 unique CDR3
6 unique J



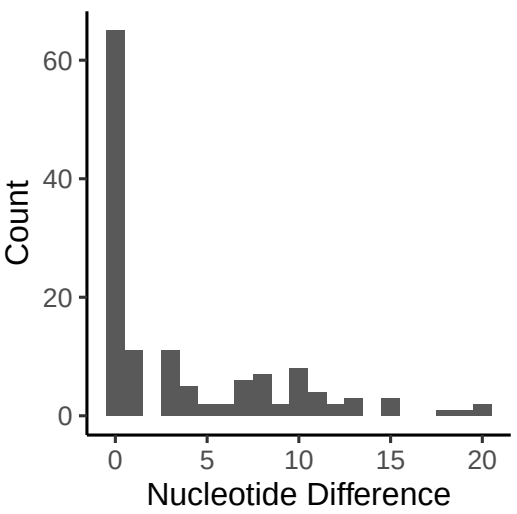
IGHV3−NL1*01

9 sequences assigned
No exact matches.



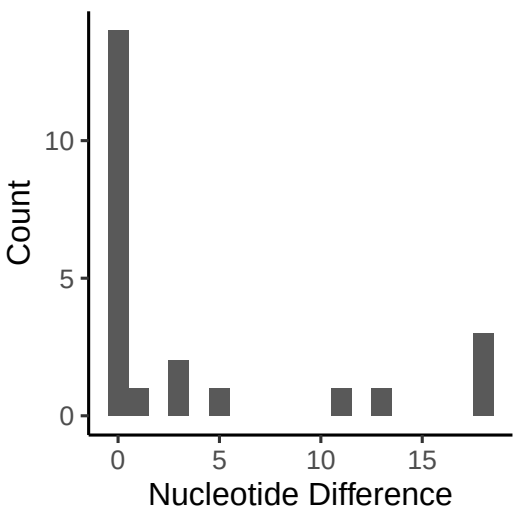
IGHV3−73*01_02

149 sequences assigned
65 (43.6%) exact matches, in which:
34 unique CDR3
6 unique J



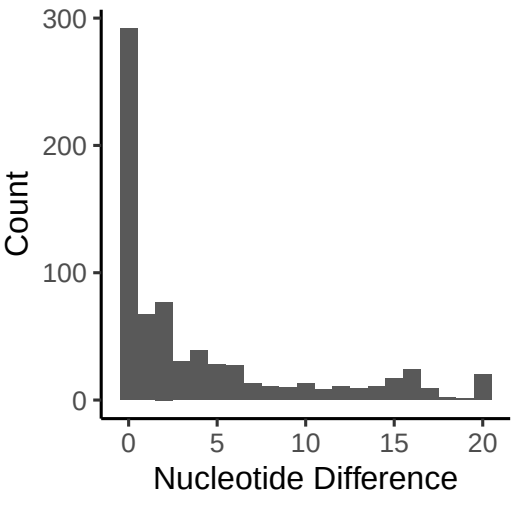
IGHV3−43D*04

28 sequences assigned
14 (50%) exact matches, in which:
9 unique CDR3
3 unique J



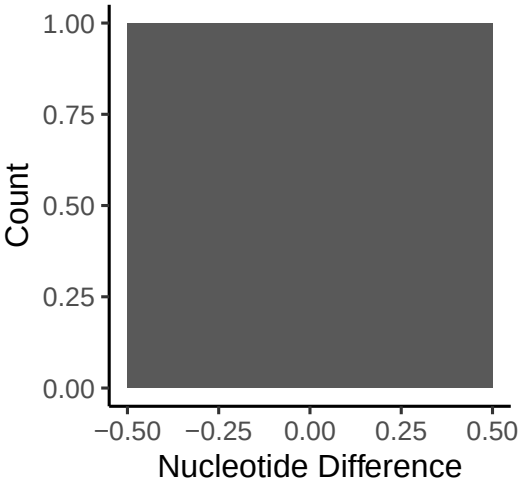
IGHV4−4*02_03

798 sequences assigned
292 (36.6%) exact matches, in which:
248 unique CDR3
6 unique J



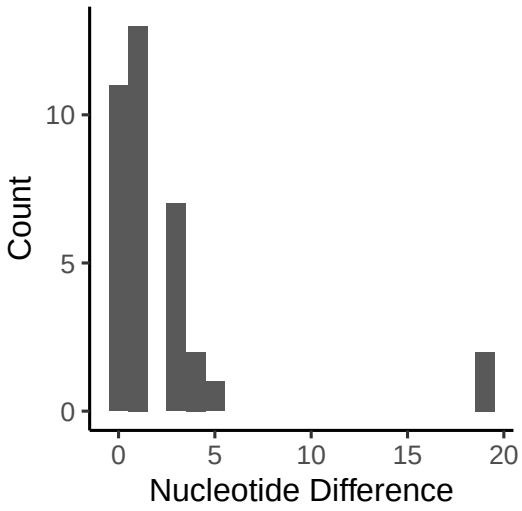
IGHV4−28*01_07

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



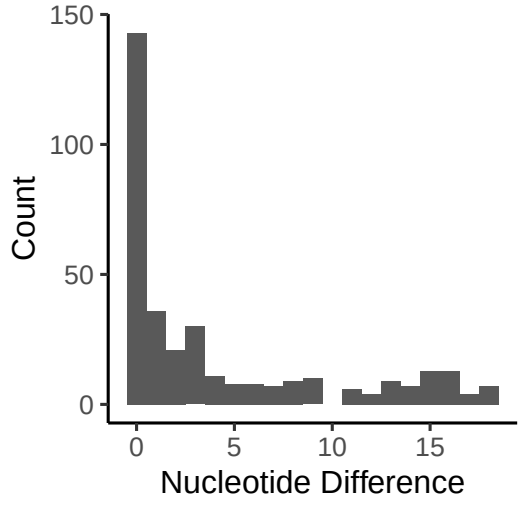
IGHV4−30−2*01_C300T_(

37 sequences assigned
11 (29.7%) exact matches, in which:
11 unique CDR3
3 unique J



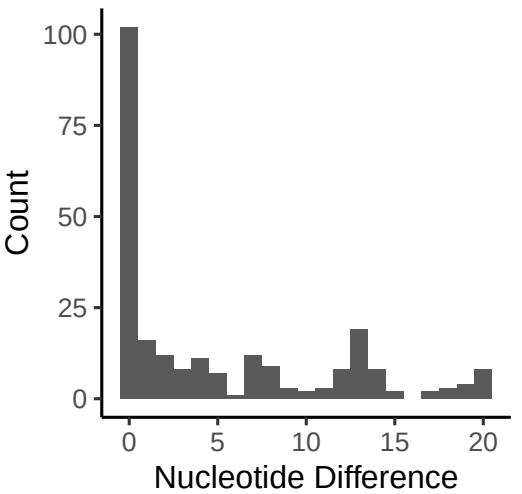
IGHV4−31*02

379 sequences assigned
143 (37.7%) exact matches, in which:
123 unique CDR3
6 unique J



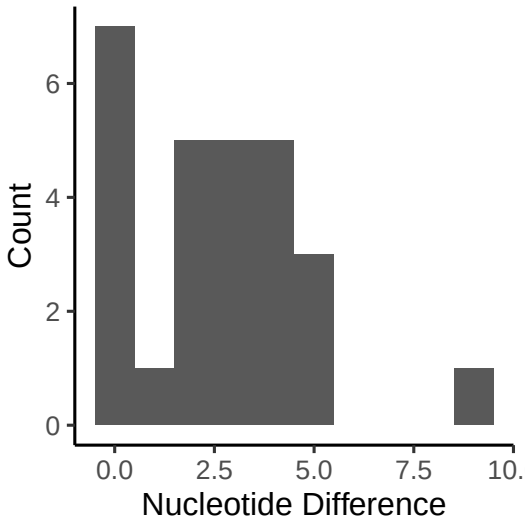
IGHV4−30−2*01

309 sequences assigned
102 (33%) exact matches, in which:
65 unique CDR3
6 unique J



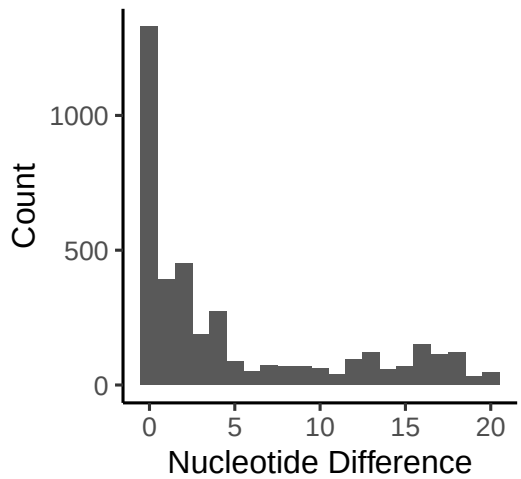
IGHV4−30−2*01_G245C_G

28 sequences assigned
7 (25%) exact matches, in which:
7 unique CDR3
3 unique J



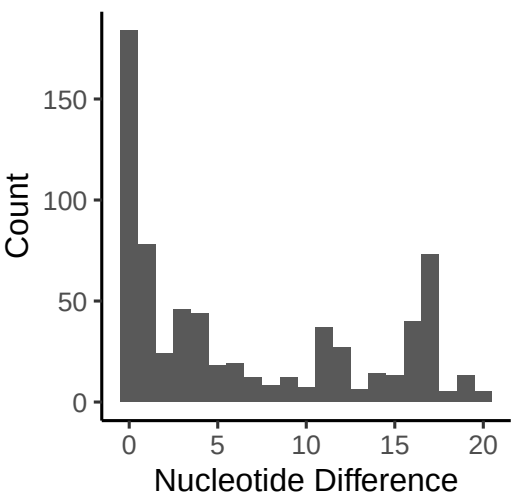
IGHV4−34*01_02

4228 sequences assigned
1329 (31.4%) exact matches, in which:
1032 unique CDR3
6 unique J



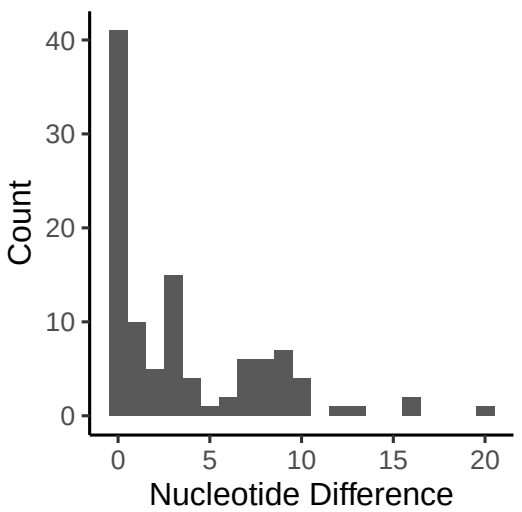
IGHV4−30−4*01

699 sequences assigned
184 (26.3%) exact matches, in which:
167 unique CDR3
6 unique J



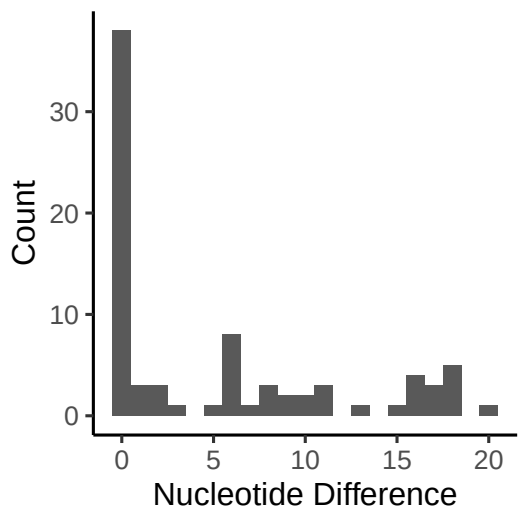
IGHV4−31*01

107 sequences assigned
41 (38.3%) exact matches, in which:
32 unique CDR3
5 unique J



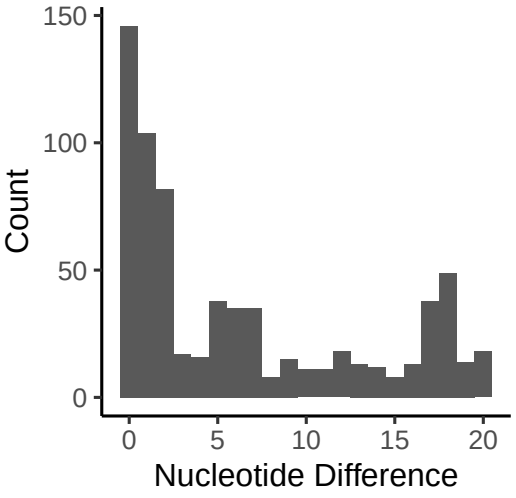
IGHV4−38−2*01_A291G_(

84 sequences assigned
38 (45.2%) exact matches, in which:
38 unique CDR3
5 unique J



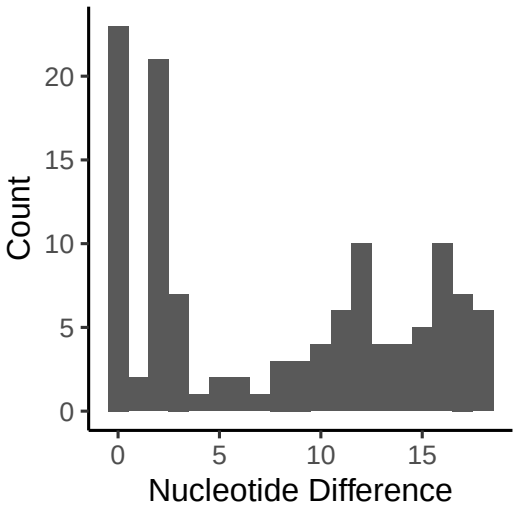
IGHV4−38−2*02_A70G

1002 sequences assigned
146 (14.6%) exact matches, in which:
122 unique CDR3
6 unique J



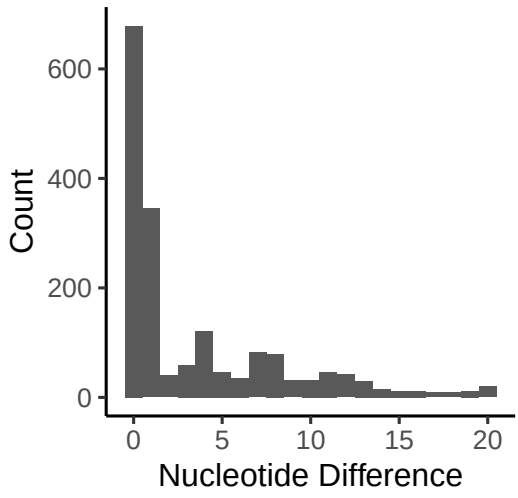
IGHV4−39*07_A103G_A1(

125 sequences assigned
23 (18.4%) exact matches, in which:
22 unique CDR3
5 unique J



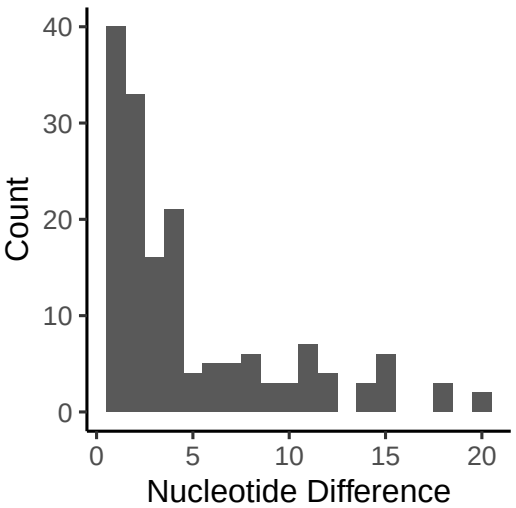
IGHV4−59*02_G88A

2249 sequences assigned
679 (30.2%) exact matches, in which:
577 unique CDR3
6 unique J



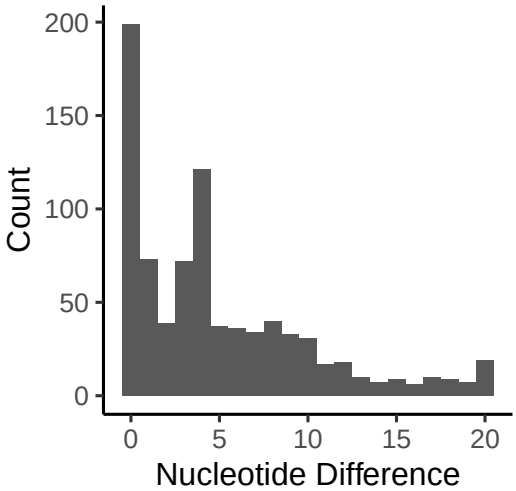
IGHV4−39*07

167 sequences assigned
No exact matches.



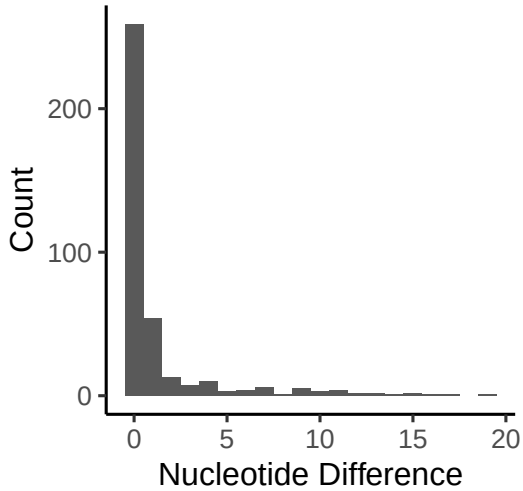
IGHV4−59*08

1100 sequences assigned
199 (18.1%) exact matches, in which:
179 unique CDR3
6 unique J



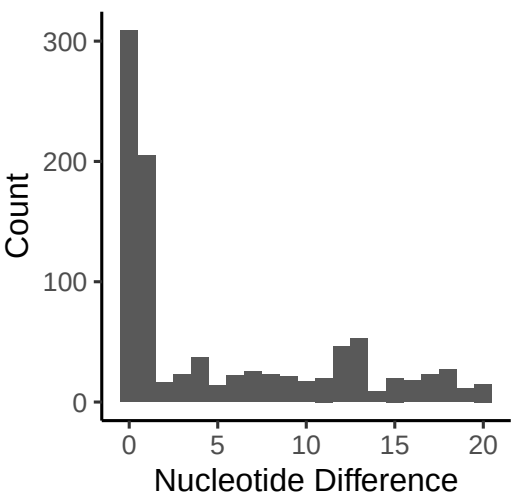
IGHV4−59*12_C300T

382 sequences assigned
259 (67.8%) exact matches, in which:
259 unique CDR3
6 unique J



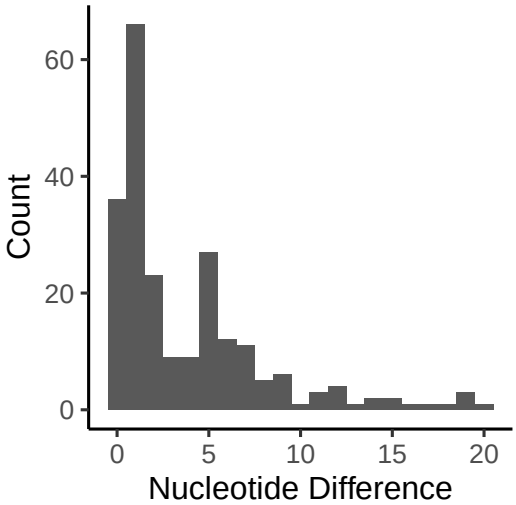
IGHV4−39*02_C258G

1073 sequences assigned
309 (28.8%) exact matches, in which:
237 unique CDR3
6 unique J



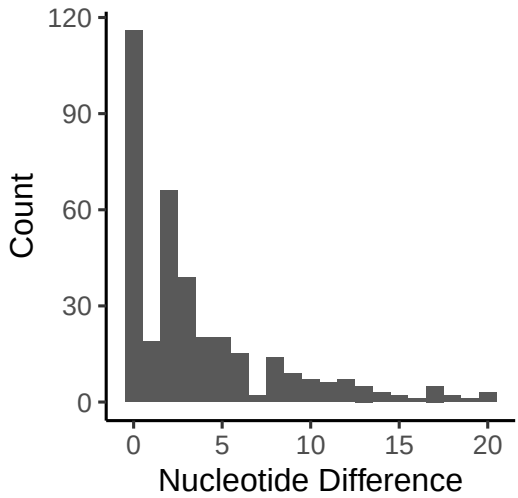
IGHV4−59*12

244 sequences assigned
36 (14.8%) exact matches, in which:
36 unique CDR3
6 unique J



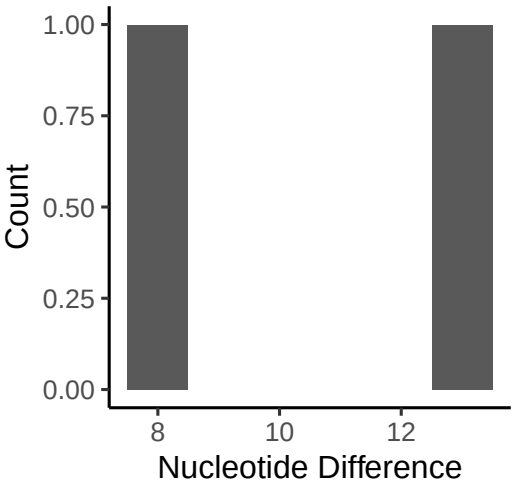
IGHV4−61*01

441 sequences assigned
116 (26.3%) exact matches, in which:
113 unique CDR3
6 unique J



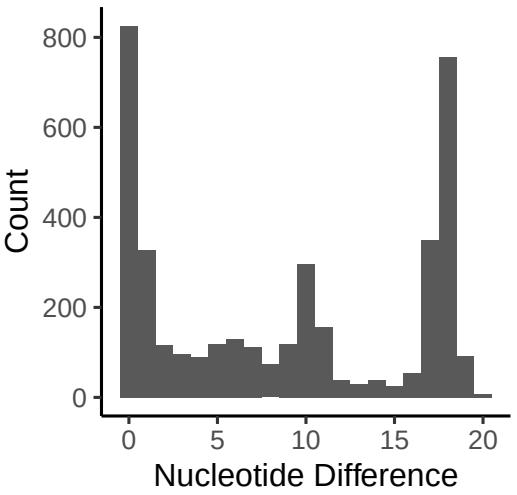
IGHV4/OR15−8*01

5 sequences assigned
No exact matches.



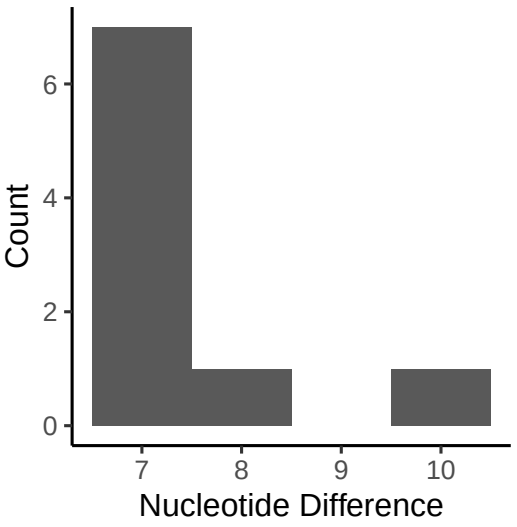
IGHV5−51*07_A128G

3903 sequences assigned
826 (21.2%) exact matches, in which:
500 unique CDR3
6 unique J



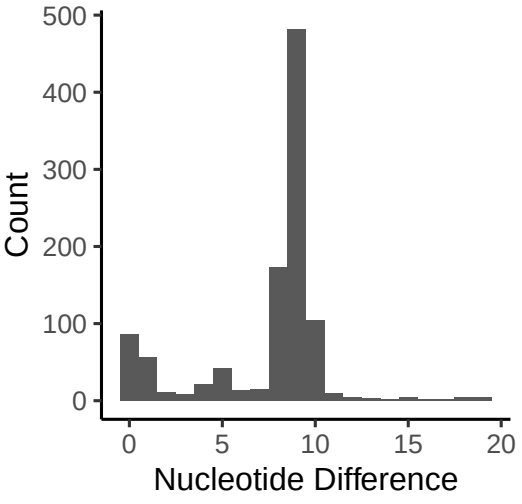
IGHV4/OR15−8*02

17 sequences assigned
No exact matches.



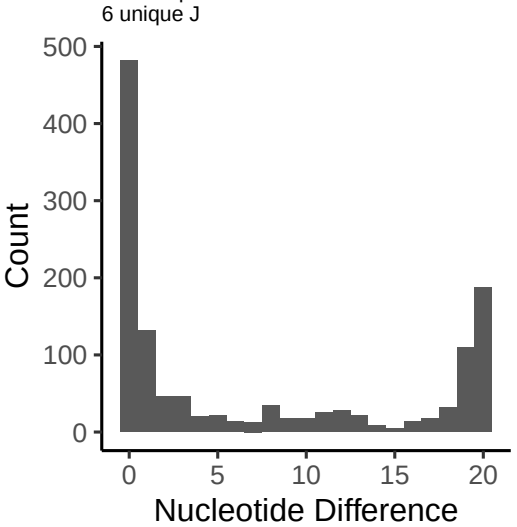
IGHV6−1*01_02

1052 sequences assigned
86 (8.2%) exact matches, in which:
79 unique CDR3
6 unique J



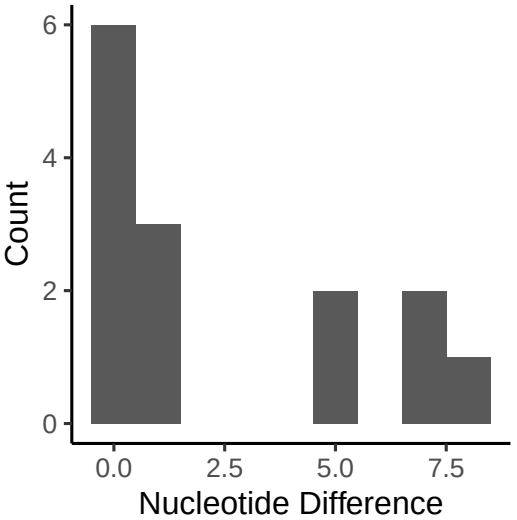
IGHV5−10−1*01_03

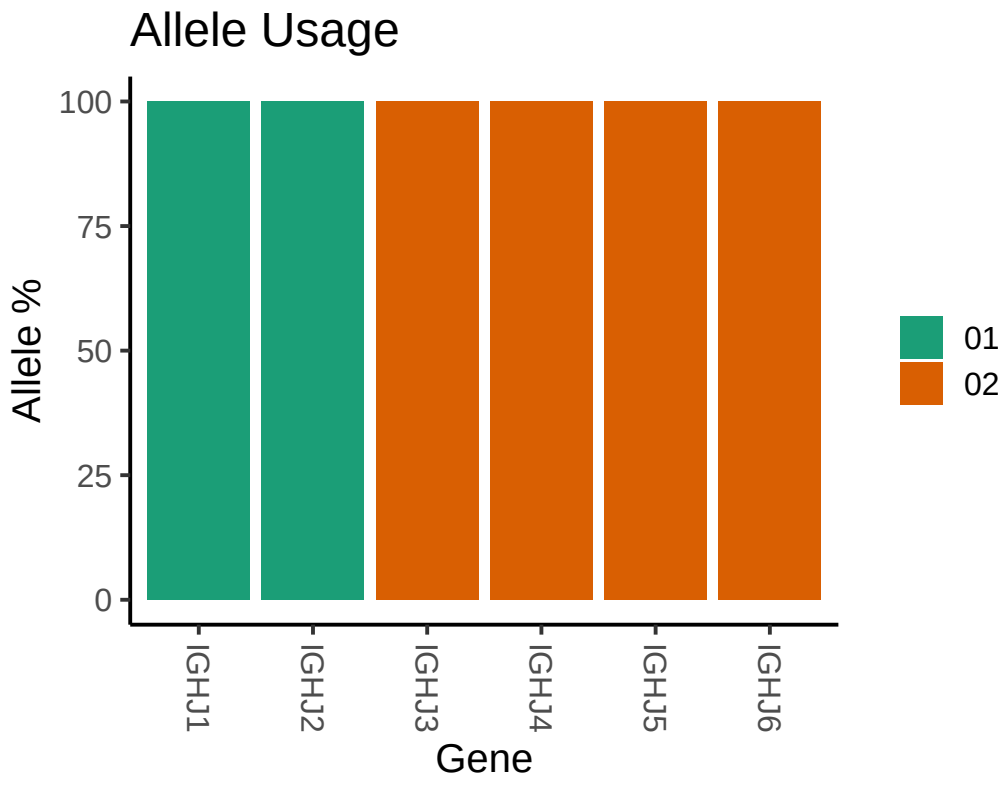
1658 sequences assigned
482 (29.1%) exact matches, in which:
325 unique CDR3
6 unique J



IGHV7−4−1*01

14 sequences assigned
6 (42.9%) exact matches, in which:
6 unique CDR3
2 unique J




Allele Usage
100
75
50
25
0
Allele %
IGHJ1
IGHJ2
IGHJ3
IGHJ4
IGHJ5
IGHJ6
Gene
01
02

Warning − no inferred sequences found.