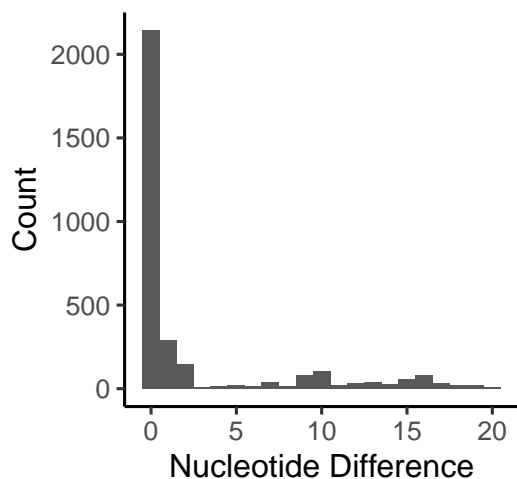


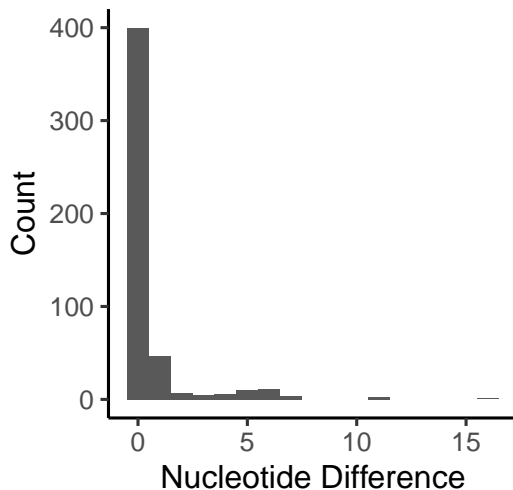
IGHV1-2*02

3513 sequences assigned
2143 (61%) exact matches, in which:
2101 unique CDR3
6 unique J



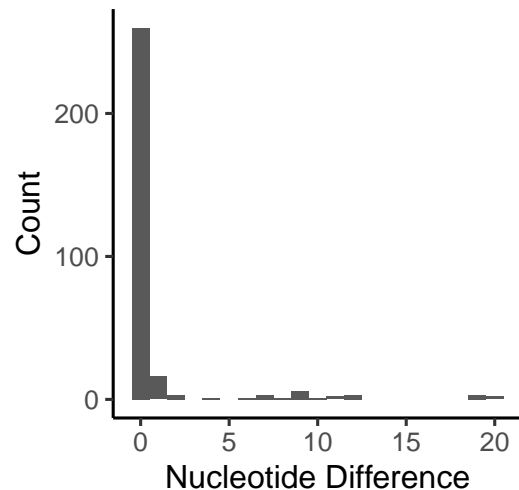
IGHV1-8*03

500 sequences assigned
400 (80%) exact matches, in which:
390 unique CDR3
6 unique J



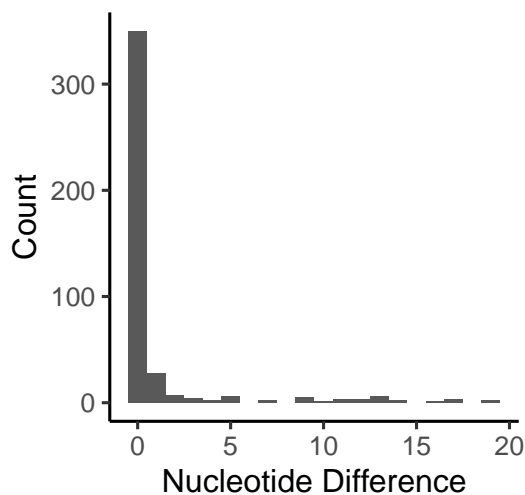
IGHV1-24*01

442 sequences assigned
260 (58.8%) exact matches, in which:
252 unique CDR3
6 unique J



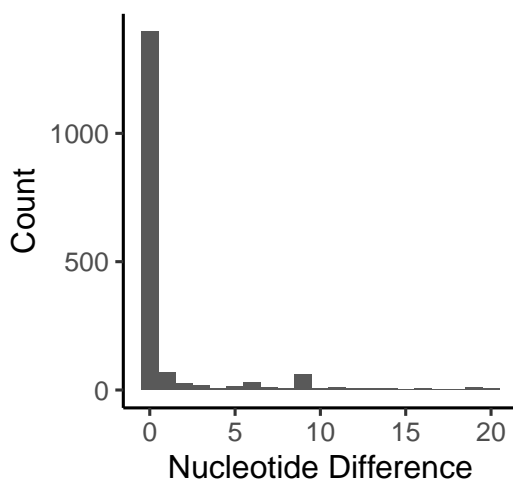
IGHV1-3*01_05

457 sequences assigned
350 (76.6%) exact matches, in which:
345 unique CDR3
6 unique J



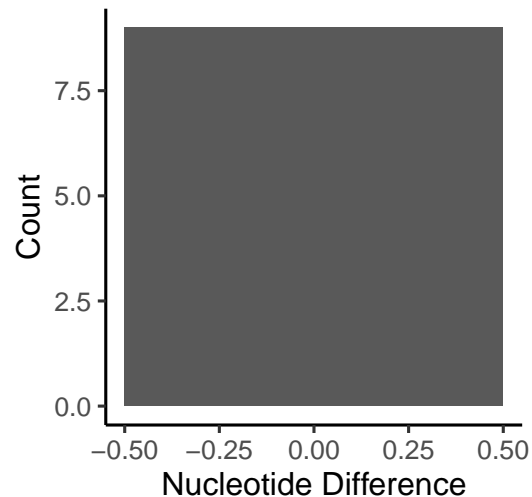
IGHV1-18*01

1772 sequences assigned
1396 (78.8%) exact matches, in which:
1376 unique CDR3
6 unique J



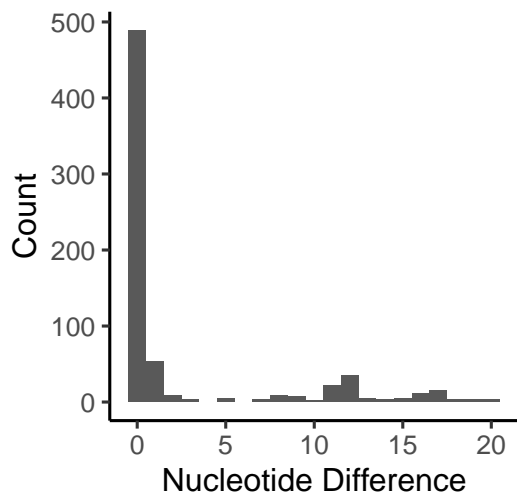
IGHV1-45*02

9 sequences assigned
9 (100%) exact matches, in which:
9 unique CDR3
2 unique J



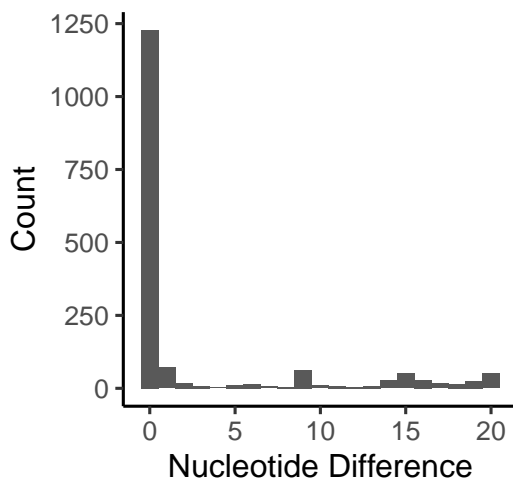
IGHV1-8*01

693 sequences assigned
489 (70.6%) exact matches, in which:
480 unique CDR3
6 unique J



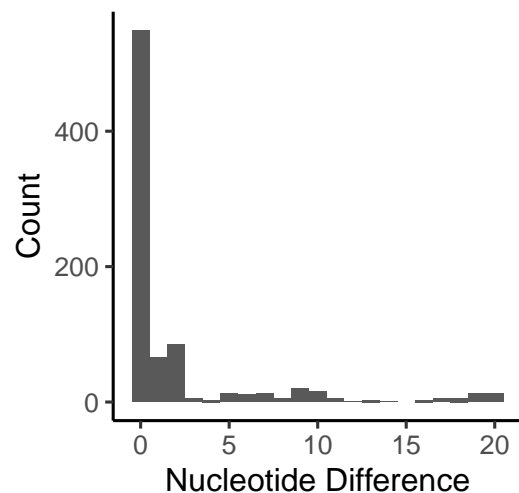
IGHV1-18*01_A190G

1834 sequences assigned
1228 (67%) exact matches, in which:
1210 unique CDR3
6 unique J



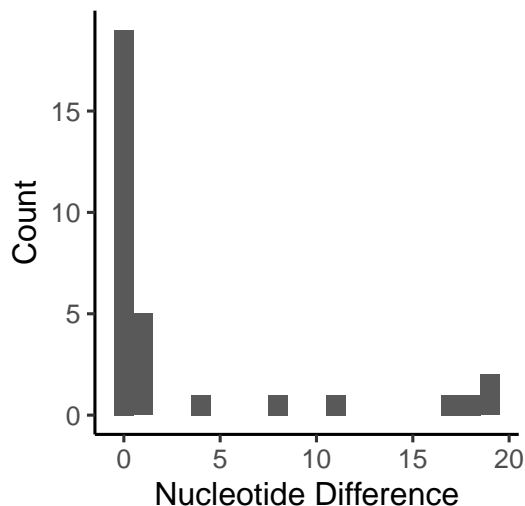
IGHV1-46*01

895 sequences assigned
549 (61.3%) exact matches, in which:
542 unique CDR3
6 unique J



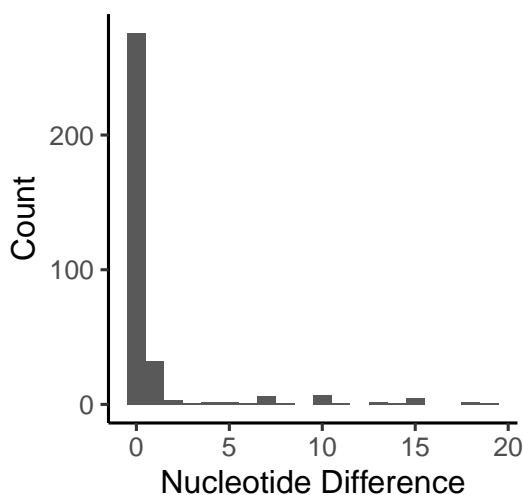
IGHV1-58*02

36 sequences assigned
19 (52.8%) exact matches, in which:
17 unique CDR3
4 unique J



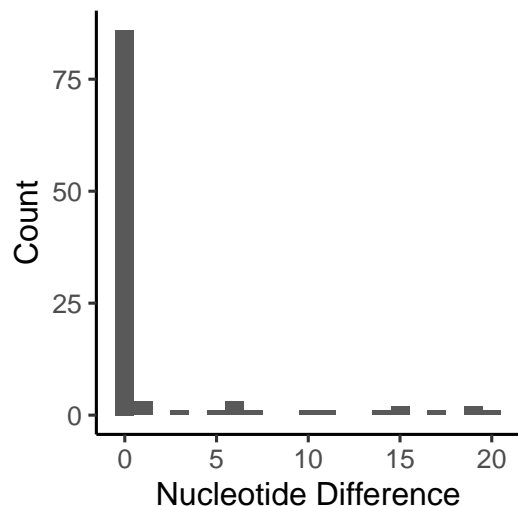
IGHV1-69*04_09_G112A

551 sequences assigned
276 (50.1%) exact matches, in which:
273 unique CDR3
6 unique J



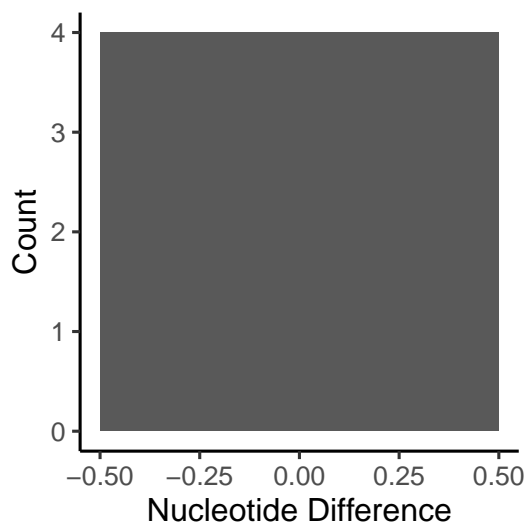
IGHV2-5*01

143 sequences assigned
86 (60.1%) exact matches, in which:
84 unique CDR3
5 unique J



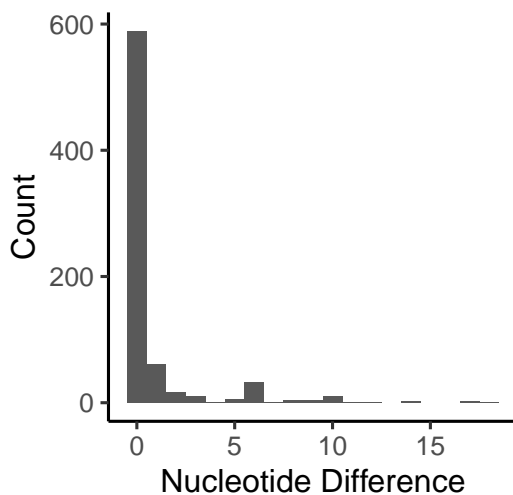
IGHV1-69-2*01

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
4 unique J



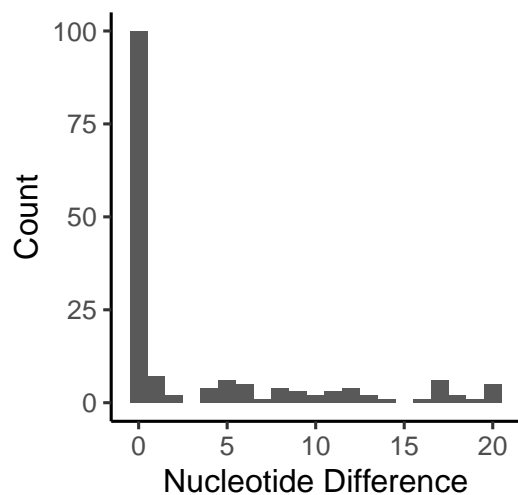
IGHV1-69*10_A244G

755 sequences assigned
589 (78%) exact matches, in which:
584 unique CDR3
6 unique J



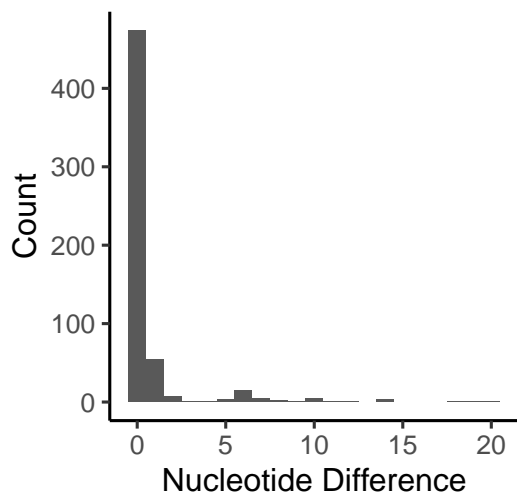
IGHV2-5*02

185 sequences assigned
100 (54.1%) exact matches, in which:
98 unique CDR3
5 unique J



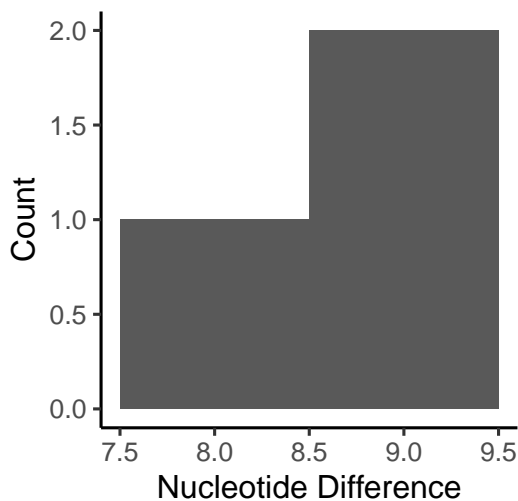
IGHV1-69*05

594 sequences assigned
474 (79.8%) exact matches, in which:
470 unique CDR3
6 unique J



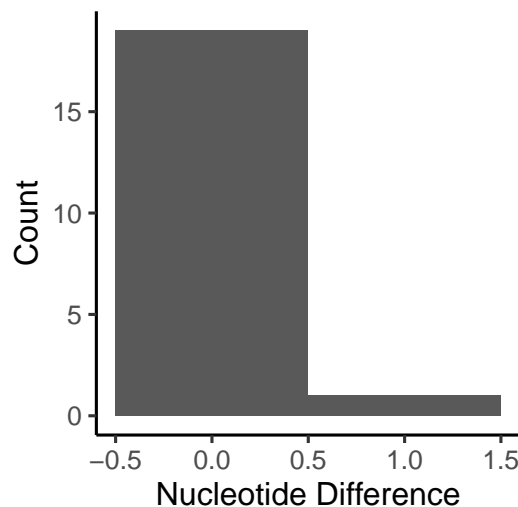
IGHV1-NL1*01

3 sequences assigned
No exact matches.



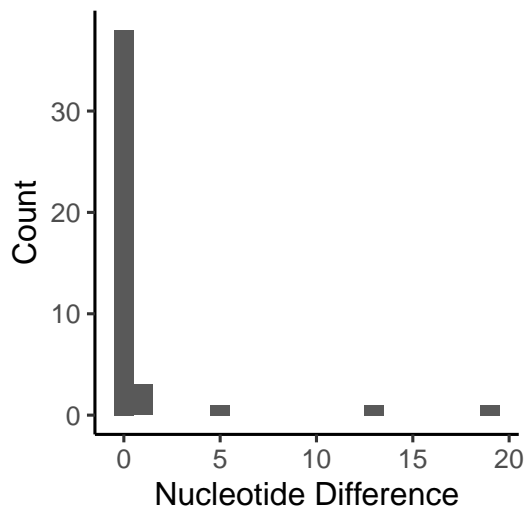
IGHV2-26*04

31 sequences assigned
19 (61.3%) exact matches, in which:
19 unique CDR3
4 unique J



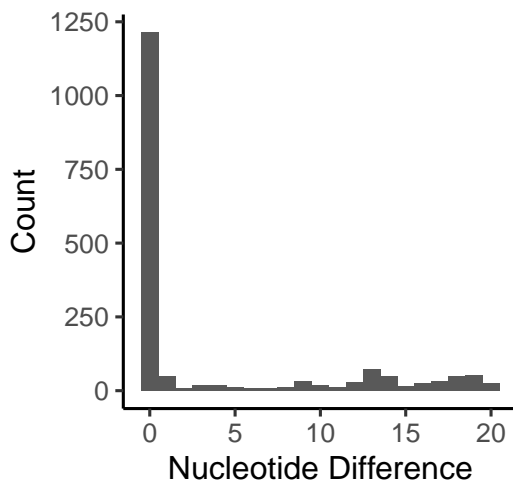
IGHV2-70*20

54 sequences assigned
38 (70.4%) exact matches, in which:
37 unique CDR3
4 unique J



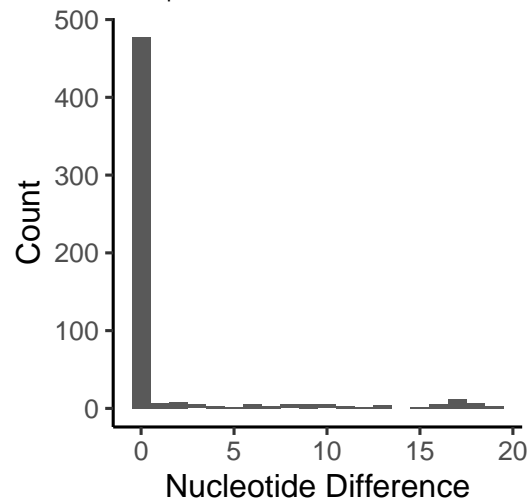
IGHV3-7*01

2262 sequences assigned
1214 (53.7%) exact matches, in which:
790 unique CDR3
6 unique J



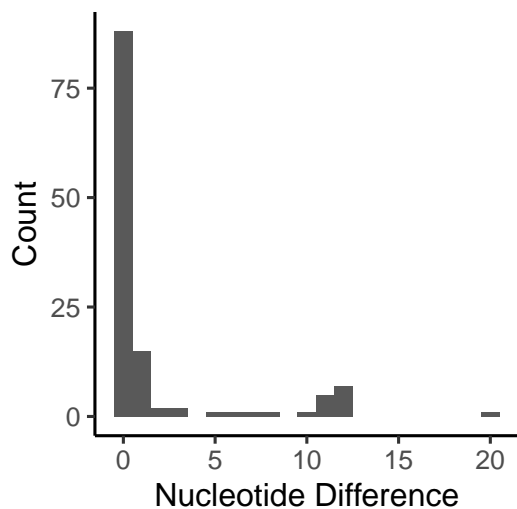
IGHV3-11*04

786 sequences assigned
478 (60.8%) exact matches, in which:
316 unique CDR3
6 unique J



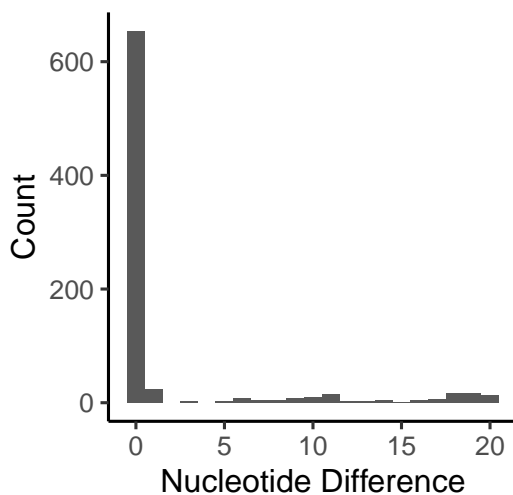
IGHV2-70*11_15

126 sequences assigned
88 (69.8%) exact matches, in which:
85 unique CDR3
4 unique J



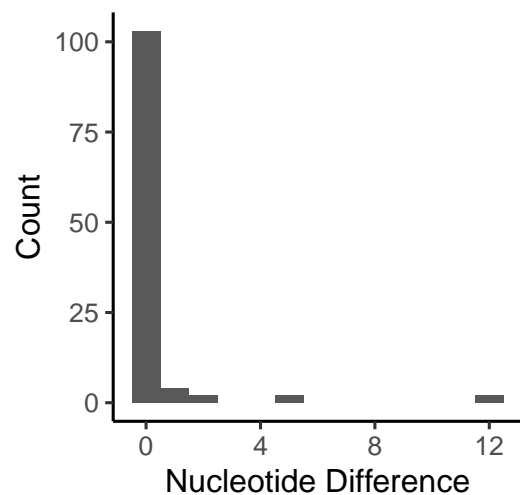
IGHV3-9*01

857 sequences assigned
654 (76.3%) exact matches, in which:
413 unique CDR3
6 unique J



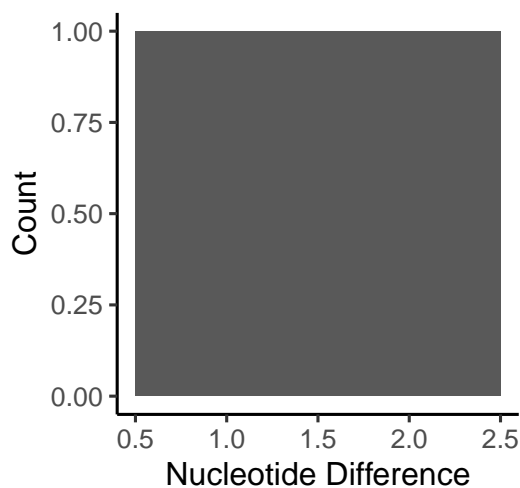
IGHV3-13*01

127 sequences assigned
103 (81.1%) exact matches, in which:
62 unique CDR3
5 unique J



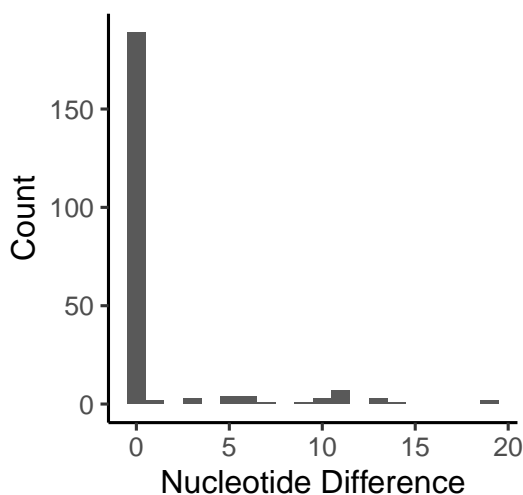
IGHV2-70D*04

2 sequences assigned
No exact matches.



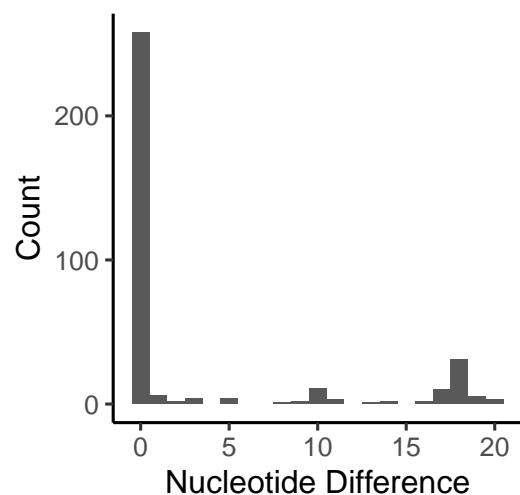
IGHV3-9*03

221 sequences assigned
189 (85.5%) exact matches, in which:
122 unique CDR3
6 unique J



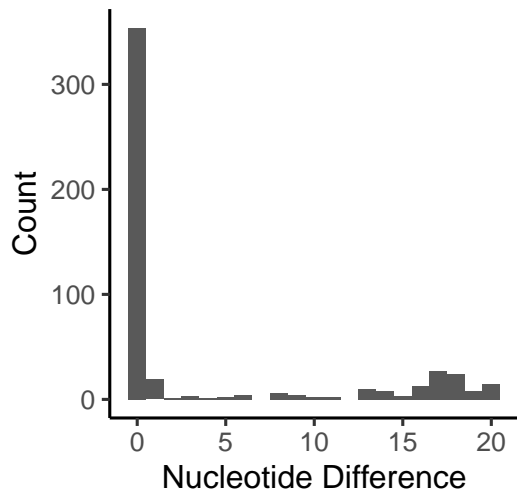
IGHV3-15*01_02_G147A

370 sequences assigned
258 (69.7%) exact matches, in which:
166 unique CDR3
6 unique J



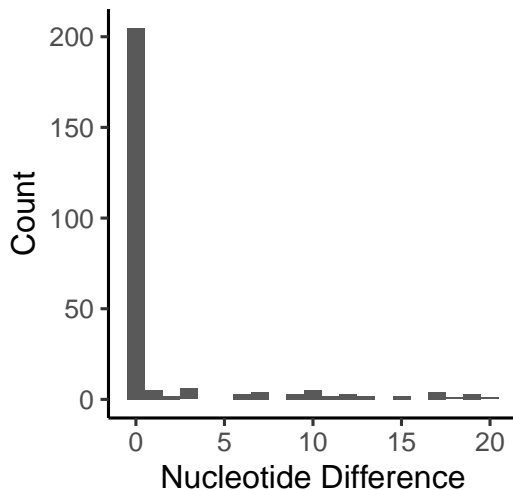
IGHV3–15*07_C159T

580 sequences assigned
354 (61%) exact matches, in which:
245 unique CDR3
6 unique J



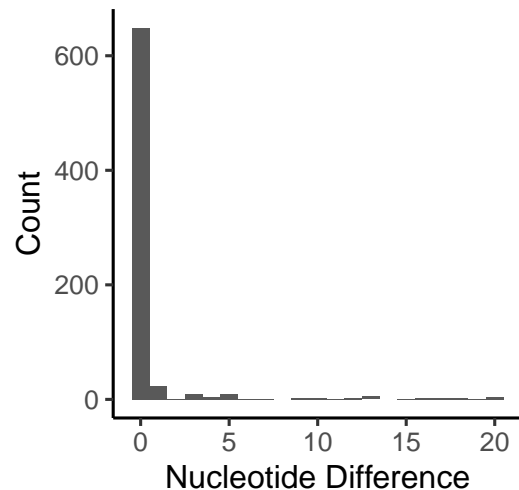
IGHV3–20*03_04

274 sequences assigned
205 (74.8%) exact matches, in which:
146 unique CDR3
6 unique J



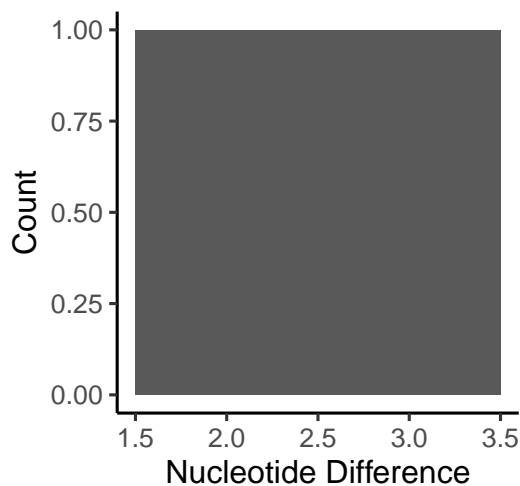
IGHV3–30–3*01

795 sequences assigned
649 (81.6%) exact matches, in which:
426 unique CDR3
6 unique J



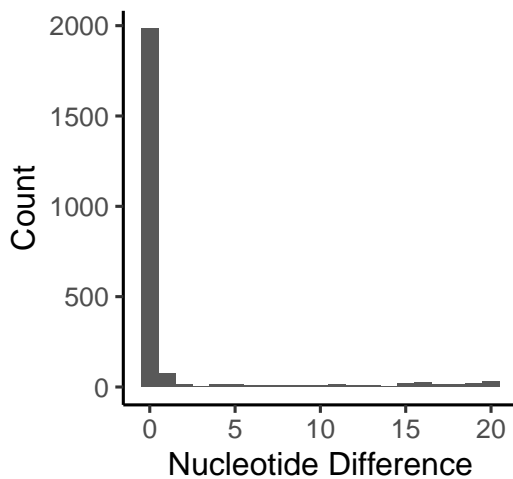
IGHV3–19*01

2 sequences assigned
No exact matches.



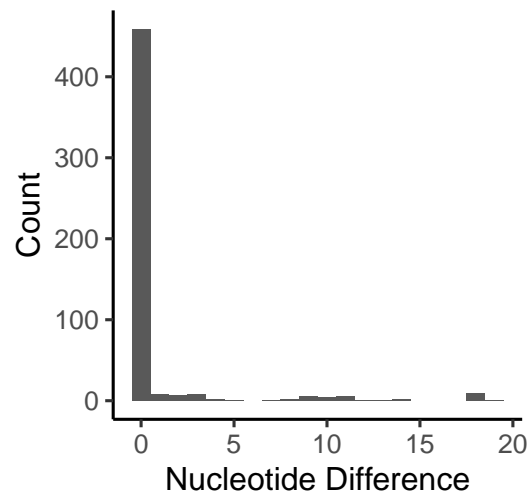
IGHV3–21*01_02

2654 sequences assigned
1983 (74.7%) exact matches, in which:
1242 unique CDR3
6 unique J



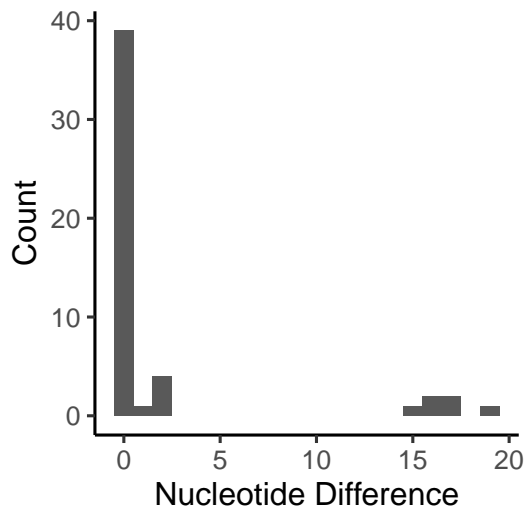
IGHV3–33*01

558 sequences assigned
459 (82.3%) exact matches, in which:
303 unique CDR3
6 unique J



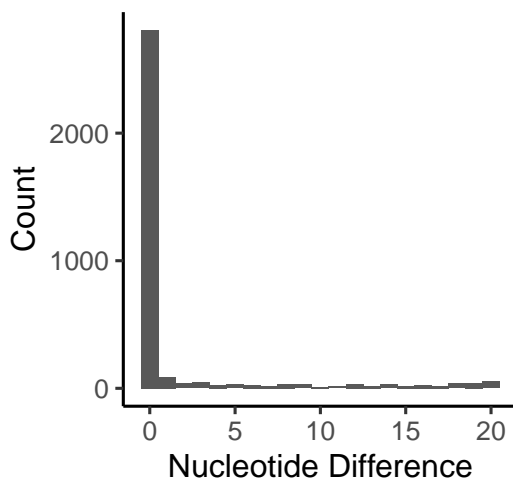
IGHV3–20*01_02

56 sequences assigned
39 (69.6%) exact matches, in which:
28 unique CDR3
5 unique J



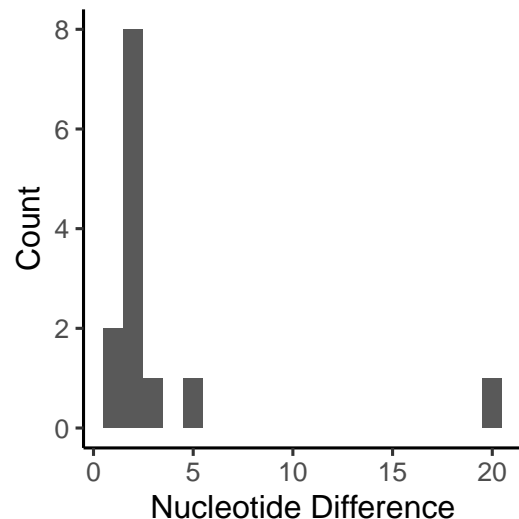
IGHV3–23*01_04

4244 sequences assigned
2808 (66.2%) exact matches, in which:
1717 unique CDR3
6 unique J



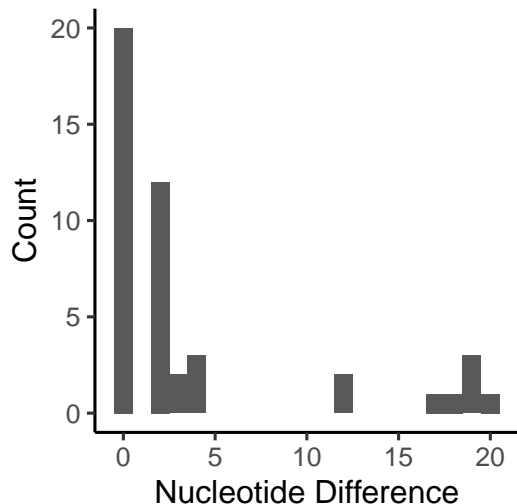
IGHV3–33*06

14 sequences assigned
No exact matches.



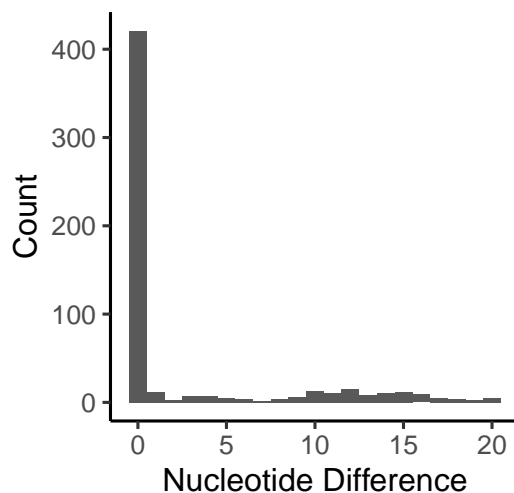
IGHV3–33*08

68 sequences assigned
20 (29.4%) exact matches, in which:
17 unique CDR3
5 unique J



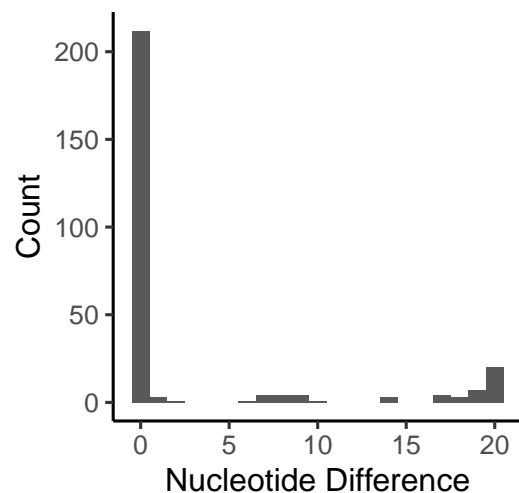
IGHV3–48*02

797 sequences assigned
421 (52.8%) exact matches, in which:
272 unique CDR3
6 unique J



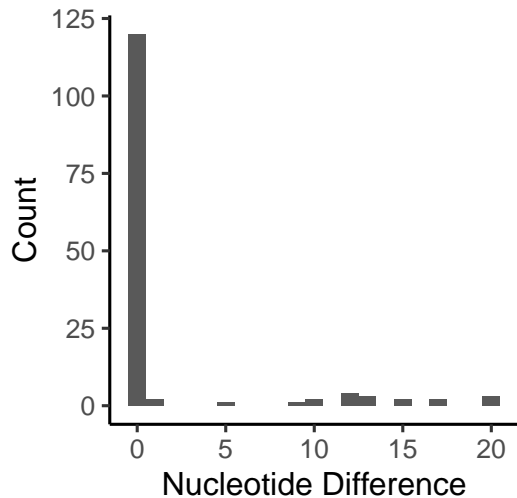
IGHV3–53*04

342 sequences assigned
212 (62%) exact matches, in which:
130 unique CDR3
6 unique J



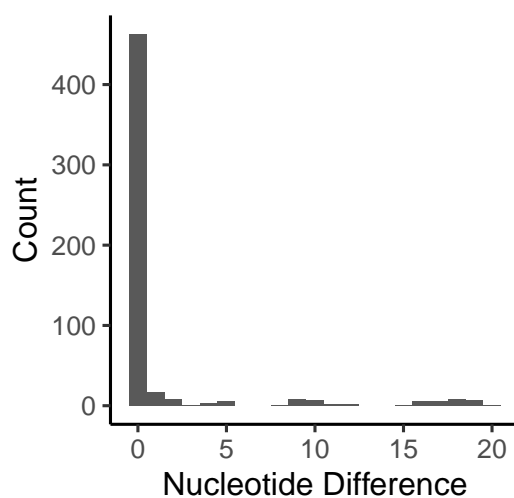
IGHV3–43*01

154 sequences assigned
120 (77.9%) exact matches, in which:
73 unique CDR3
5 unique J



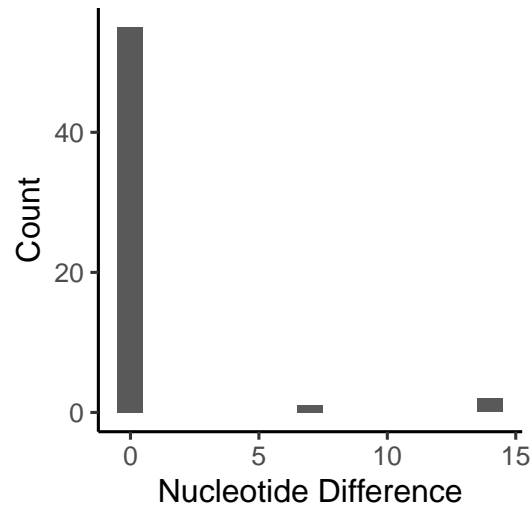
IGHV3–48*03

570 sequences assigned
463 (81.2%) exact matches, in which:
298 unique CDR3
6 unique J



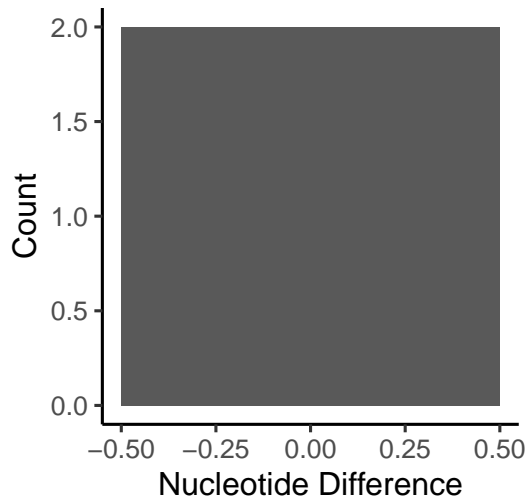
IGHV3–64*01

59 sequences assigned
55 (93.2%) exact matches, in which:
38 unique CDR3
5 unique J



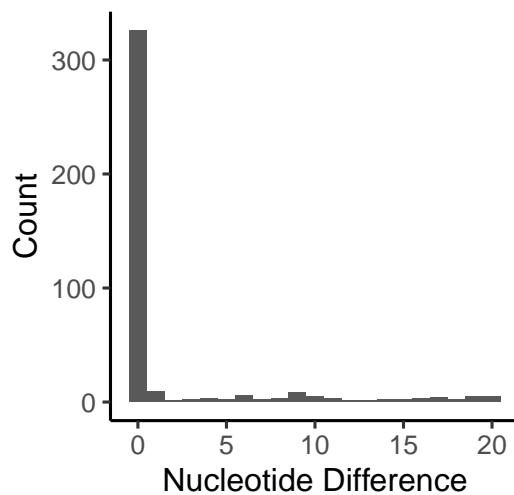
IGHV3–47*01

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



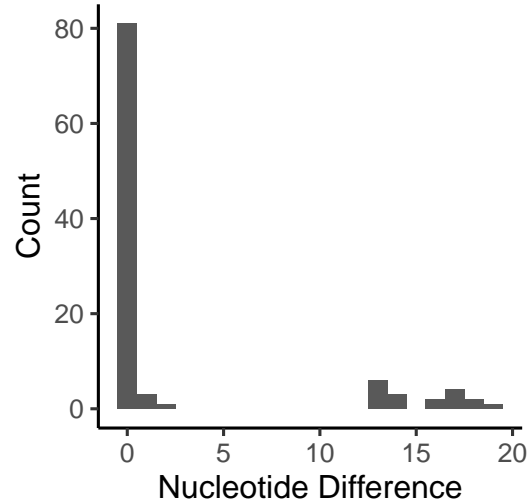
IGHV3–49*03_05

431 sequences assigned
326 (75.6%) exact matches, in which:
222 unique CDR3
6 unique J



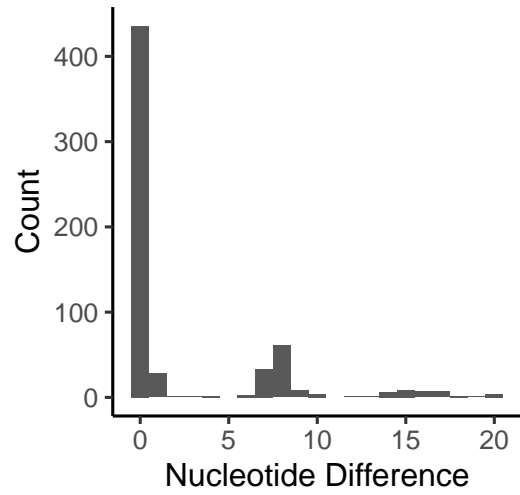
IGHV3–64*02_07

115 sequences assigned
81 (70.4%) exact matches, in which:
52 unique CDR3
6 unique J



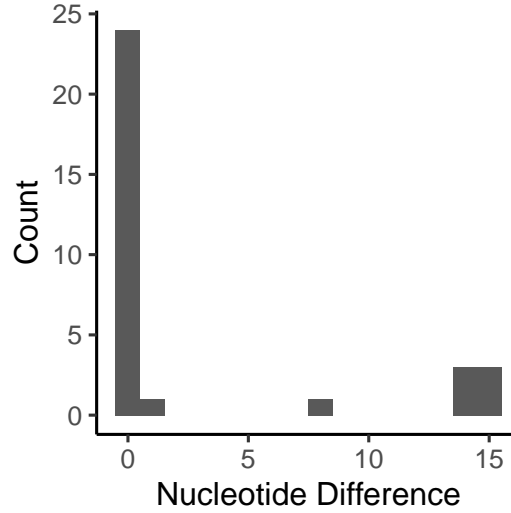
IGHV3-66*02

753 sequences assigned
436 (57.9%) exact matches, in which:
278 unique CDR3
6 unique J



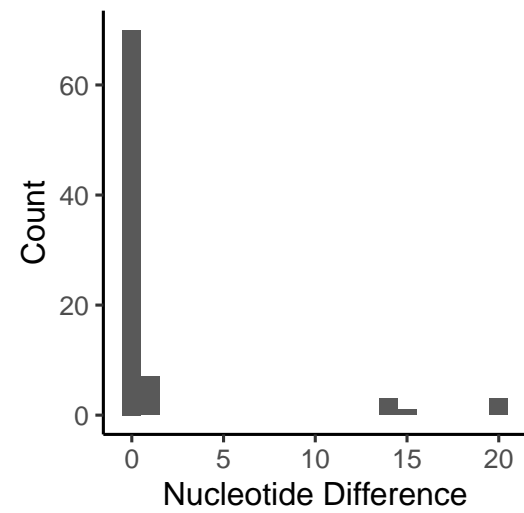
IGHV3-72*01

68 sequences assigned
24 (35.3%) exact matches, in which:
18 unique CDR3
3 unique J



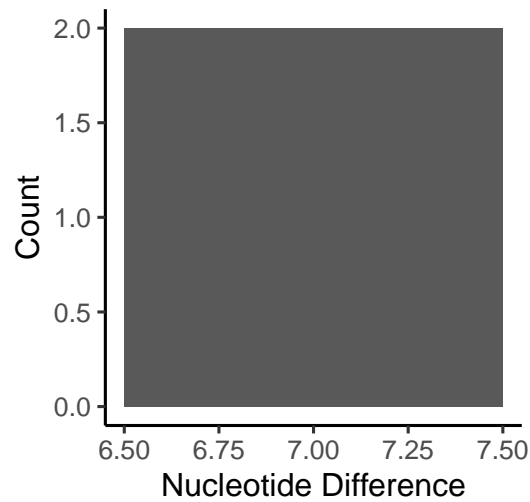
IGHV3-43D*03

91 sequences assigned
70 (76.9%) exact matches, in which:
43 unique CDR3
4 unique J



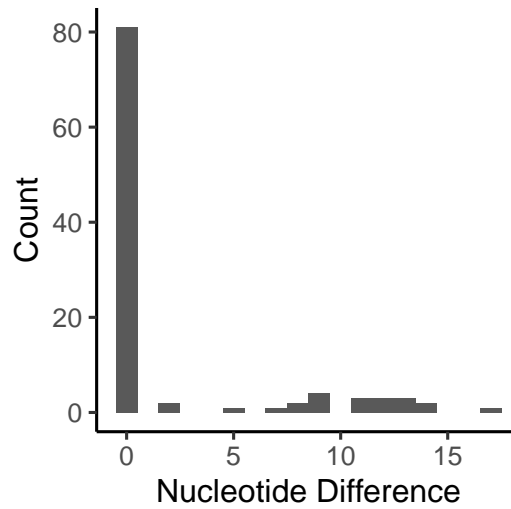
IGHV3-69-1*01

2 sequences assigned
No exact matches.



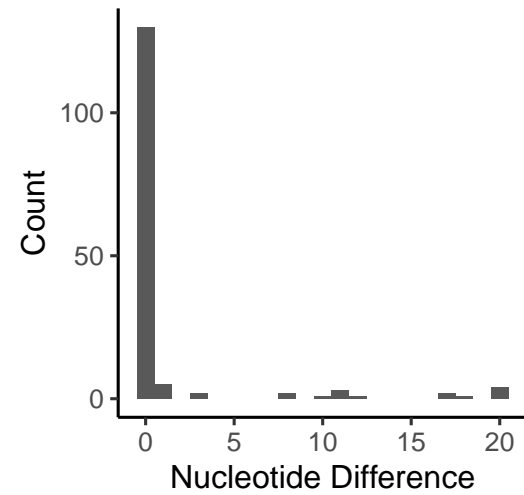
IGHV3-73*01_02

115 sequences assigned
81 (70.4%) exact matches, in which:
55 unique CDR3
6 unique J



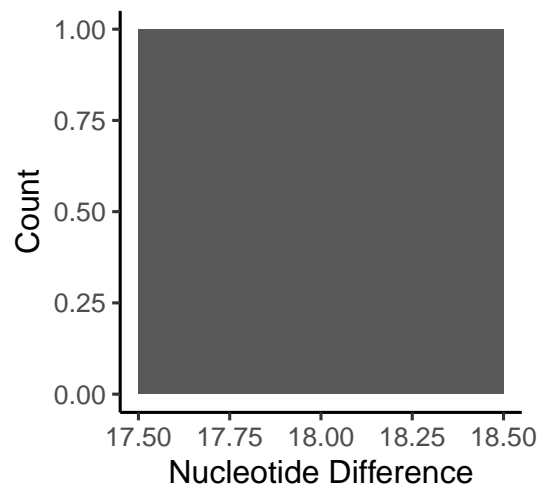
IGHV3-43D*04

162 sequences assigned
130 (80.2%) exact matches, in which:
82 unique CDR3
6 unique J



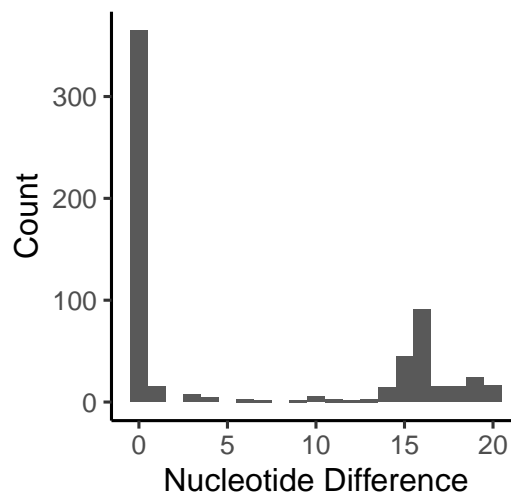
IGHV3-69-1*02

9 sequences assigned
No exact matches.



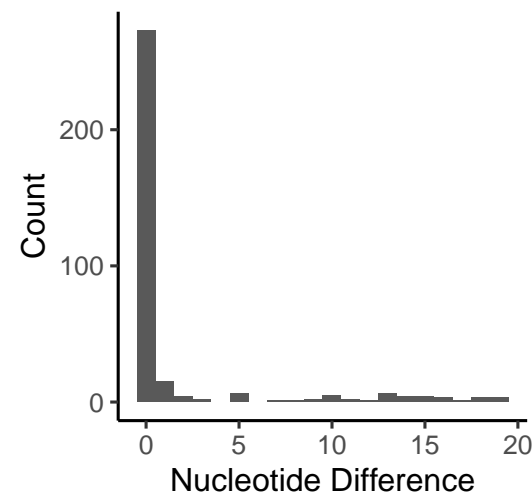
IGHV3-74*01_02

882 sequences assigned
365 (41.4%) exact matches, in which:
222 unique CDR3
6 unique J



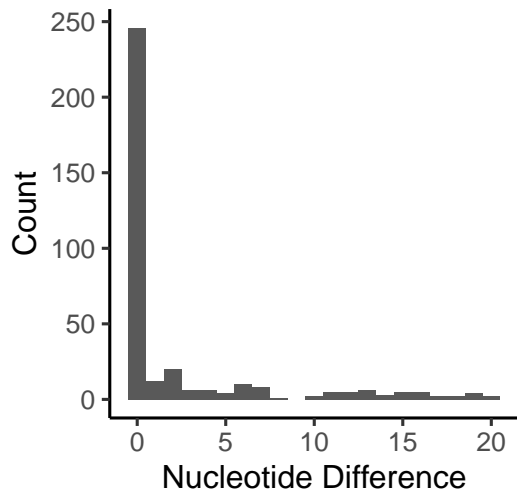
IGHV4-4*02_03

430 sequences assigned
273 (63.5%) exact matches, in which:
262 unique CDR3
6 unique J



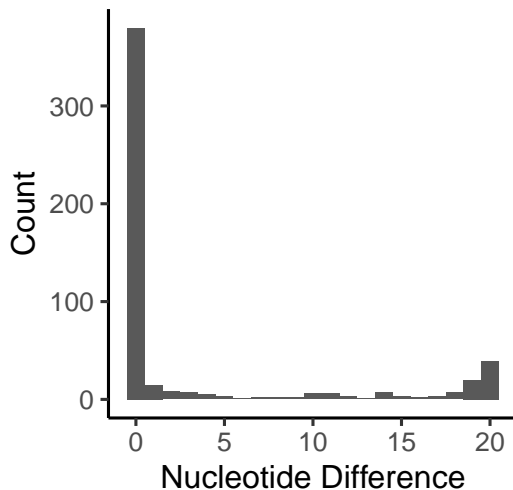
IGHV4-4*07_G234A_C24

498 sequences assigned
246 (49.4%) exact matches, in which:
244 unique CDR3
6 unique J



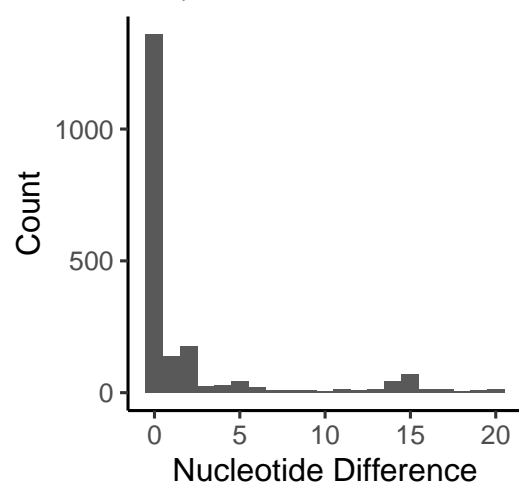
IGHV4-30-4*08

602 sequences assigned
380 (63.1%) exact matches, in which:
376 unique CDR3
6 unique J



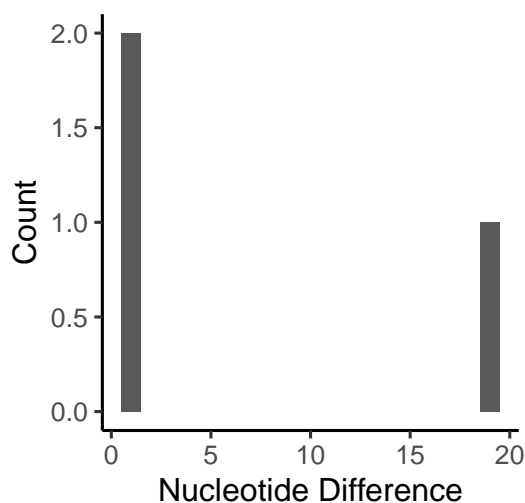
IGHV4-34*01_02

2307 sequences assigned
1359 (58.9%) exact matches, in which:
1241 unique CDR3
6 unique J



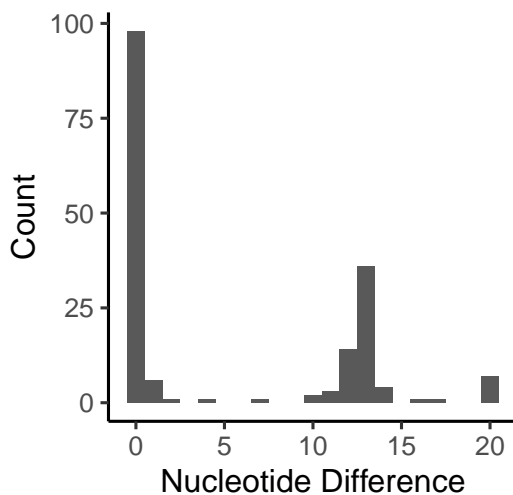
IGHV4-28*01_07

8 sequences assigned
No exact matches.



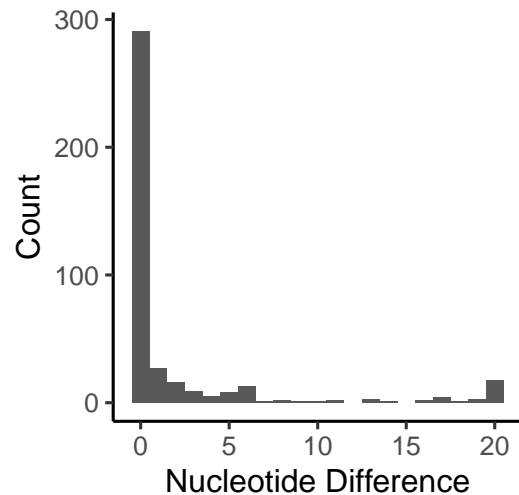
IGHV4-30-4*08_C245G

194 sequences assigned
98 (50.5%) exact matches, in which:
97 unique CDR3
5 unique J



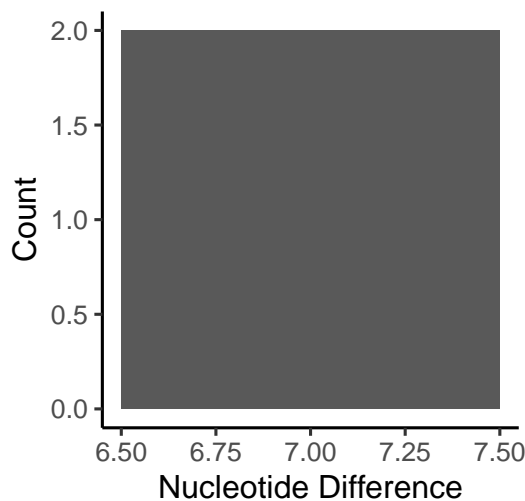
IGHV4-38-2*02

726 sequences assigned
291 (40.1%) exact matches, in which:
288 unique CDR3
6 unique J



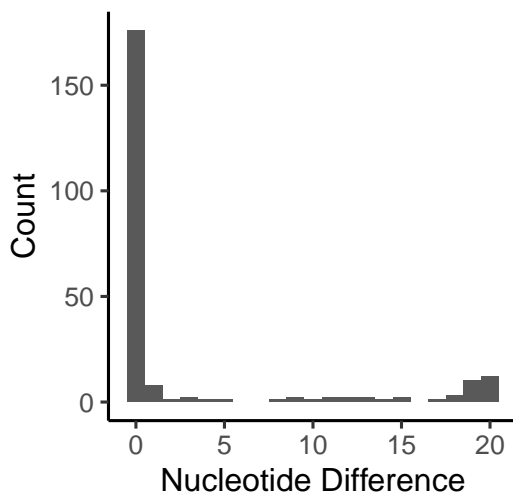
IGHV4-30-2*03

2 sequences assigned
No exact matches.



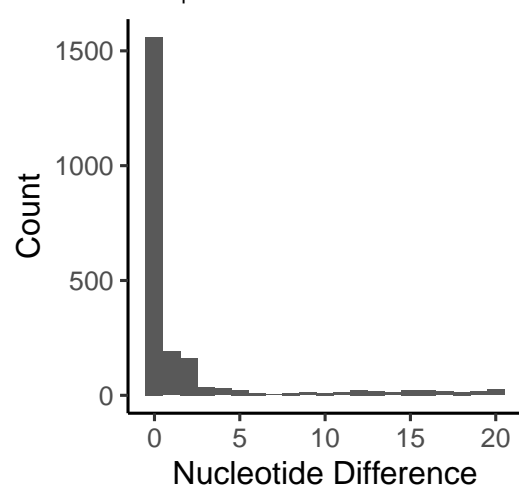
IGHV4-31*02_C198T

253 sequences assigned
176 (69.6%) exact matches, in which:
174 unique CDR3
6 unique J



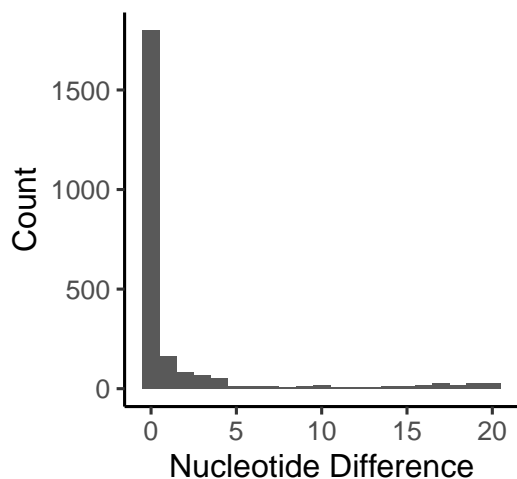
IGHV4-38-2*02_A70G

2385 sequences assigned
1560 (65.4%) exact matches, in which:
1535 unique CDR3
6 unique J



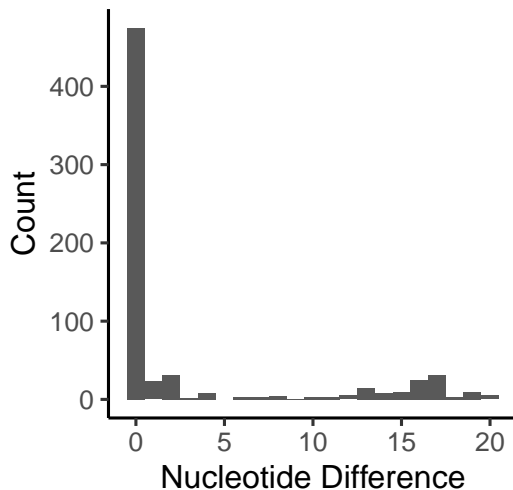
IGHV4–39*02_C258G

3071 sequences assigned
1799 (58.6%) exact matches, in which:
1779 unique CDR3
6 unique J



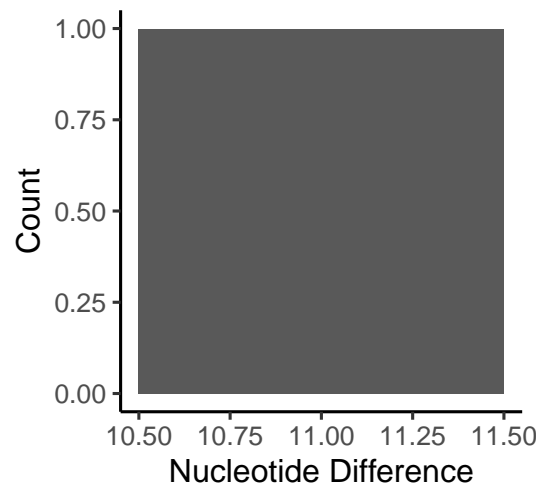
IGHV4–61*02

851 sequences assigned
475 (55.8%) exact matches, in which:
471 unique CDR3
6 unique J



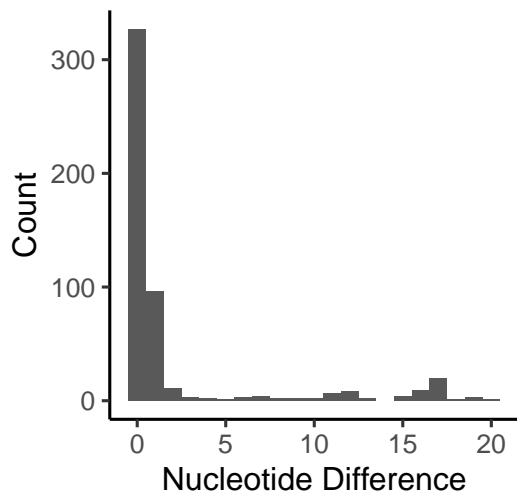
IGHV1/OR15–9*01

1 sequences assigned
No exact matches.



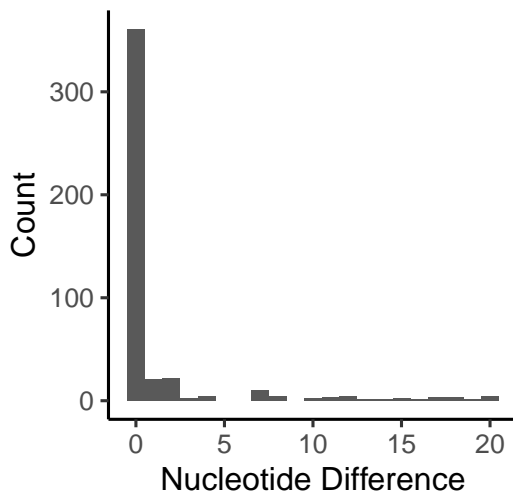
IGHV4–59*11

635 sequences assigned
327 (51.5%) exact matches, in which:
298 unique CDR3
6 unique J



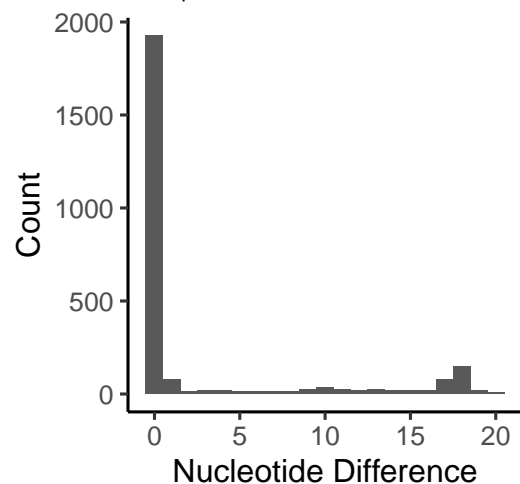
IGHV4–61*09

583 sequences assigned
361 (61.9%) exact matches, in which:
358 unique CDR3
6 unique J



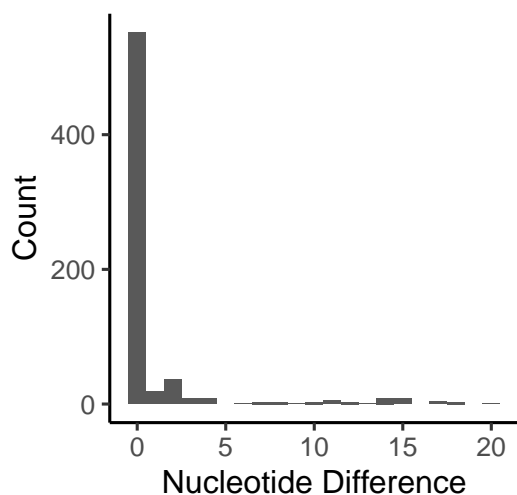
IGHV5–51*07_A128G

2696 sequences assigned
1926 (71.4%) exact matches, in which:
1319 unique CDR3
6 unique J



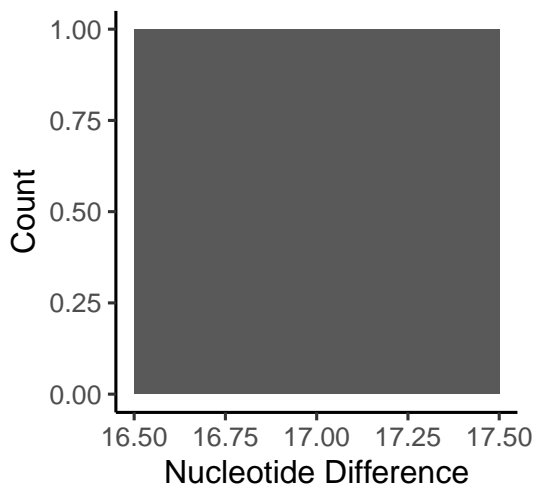
IGHV4–59*02_G88A

734 sequences assigned
552 (75.2%) exact matches, in which:
542 unique CDR3
6 unique J



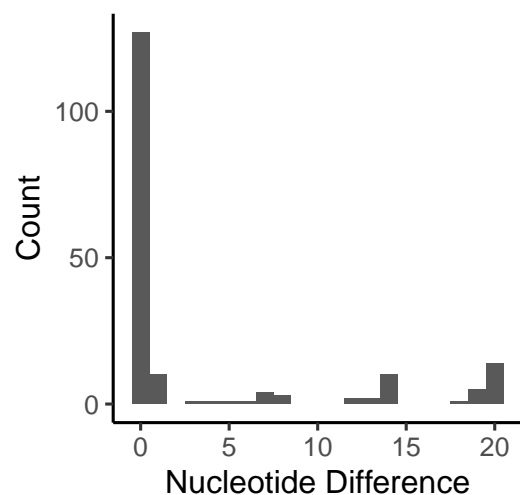
IGHV4/OR15–8*02

2 sequences assigned
No exact matches.



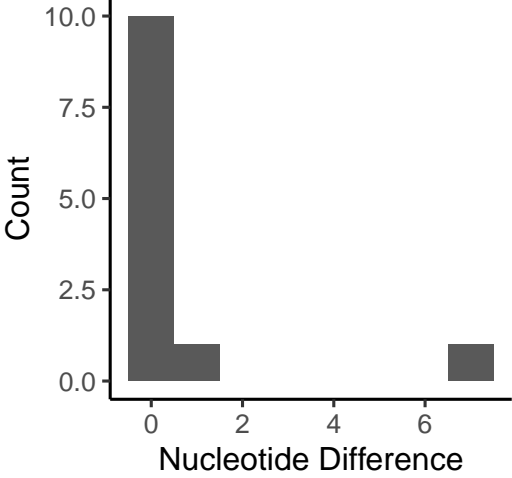
IGHV6–1*01_02

270 sequences assigned
127 (47%) exact matches, in which:
126 unique CDR3
5 unique J



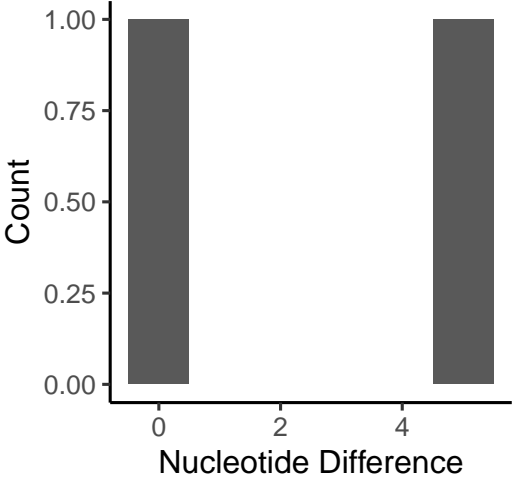
IGHV7-4-1*01

12 sequences assigned
10 (83.3%) exact matches, in which:
10 unique CDR3
4 unique J

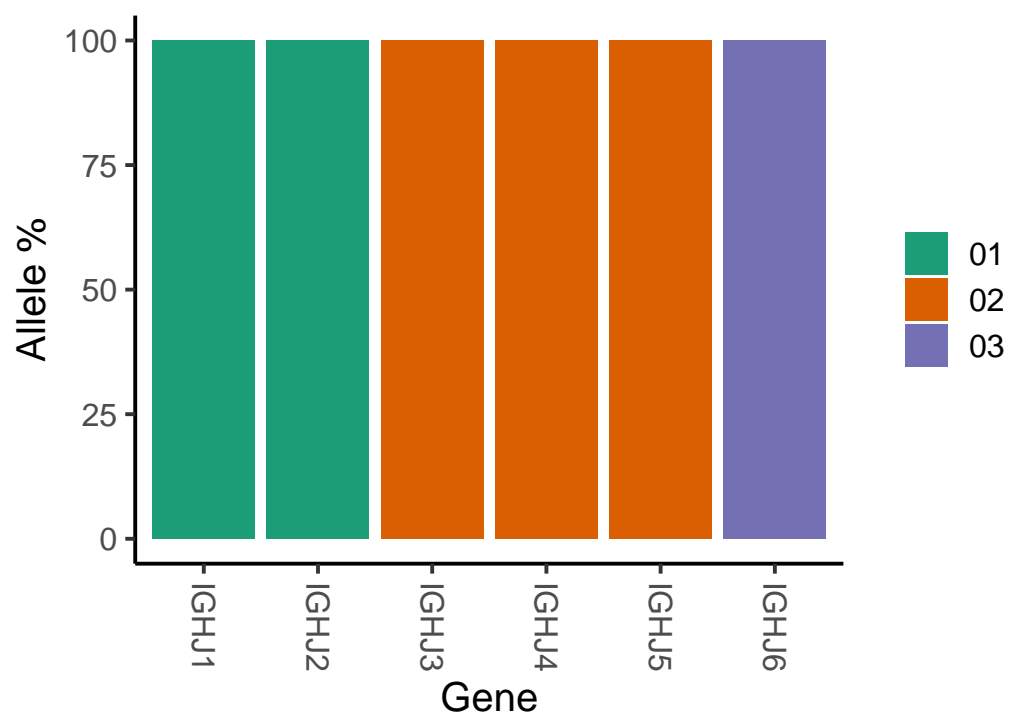


IGHV7-4-1*02

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



Allele Usage



Warning – no inferred sequences found.