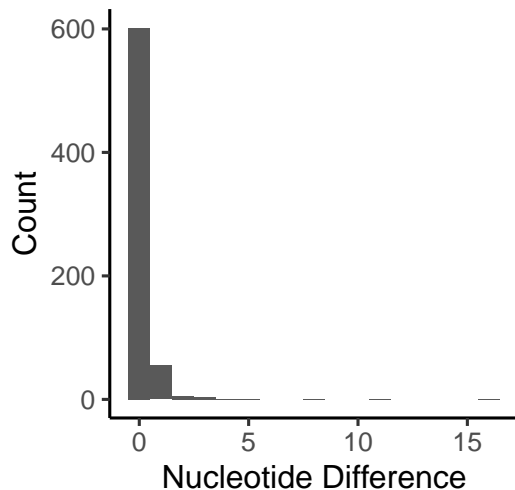


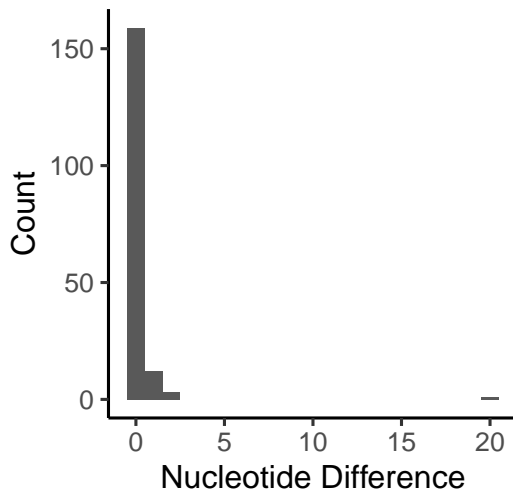
IGHV1-2*04

672 sequences assigned
602 (89.6%) exact matches, in which:
582 unique CDR3
6 unique J



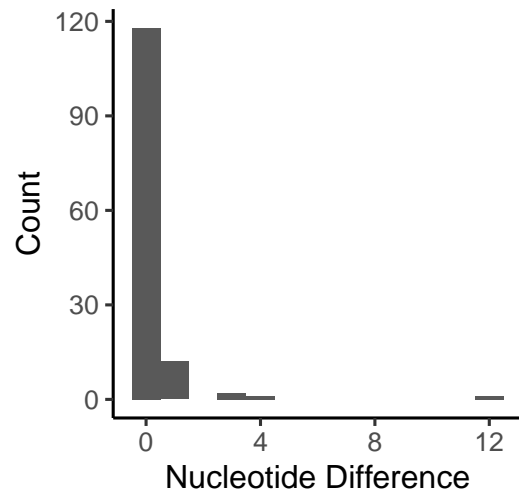
IGHV1-24*01

175 sequences assigned
159 (90.9%) exact matches, in which:
154 unique CDR3
6 unique J



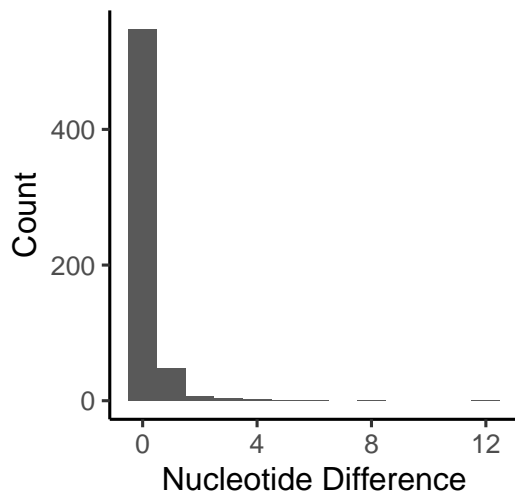
IGHV1-58*02

134 sequences assigned
118 (88.1%) exact matches, in which:
116 unique CDR3
6 unique J



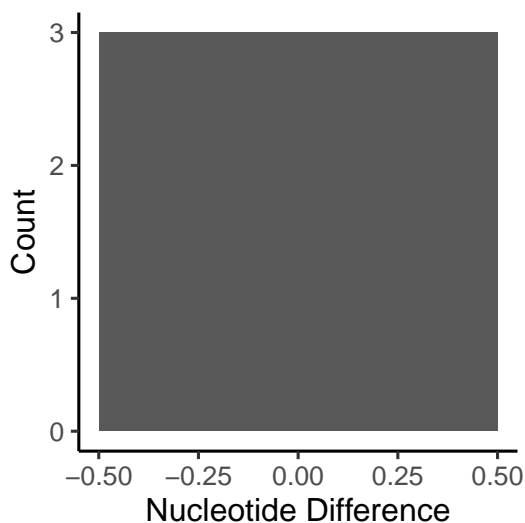
IGHV1-3*01

613 sequences assigned
548 (89.4%) exact matches, in which:
543 unique CDR3
6 unique J



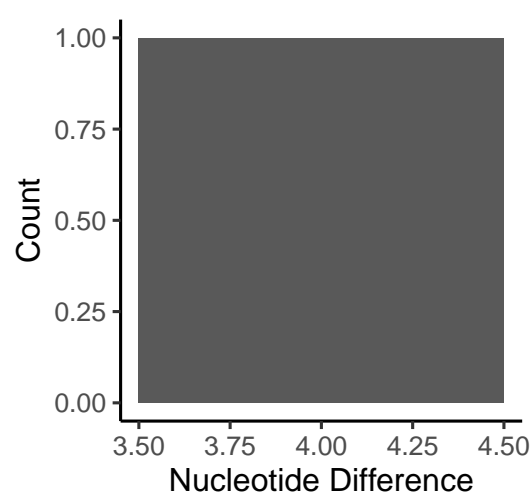
IGHV1-45*02

3 sequences assigned
3 (100%) exact matches, in which:
3 unique CDR3
2 unique J



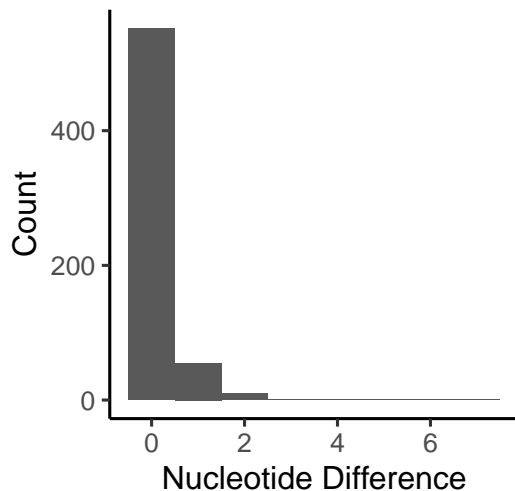
IGHV1-68*02

1 sequences assigned
No exact matches.



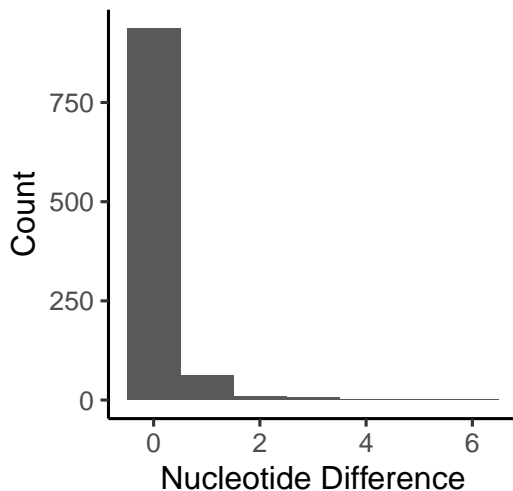
IGHV1-18*01

624 sequences assigned
552 (88.5%) exact matches, in which:
545 unique CDR3
6 unique J



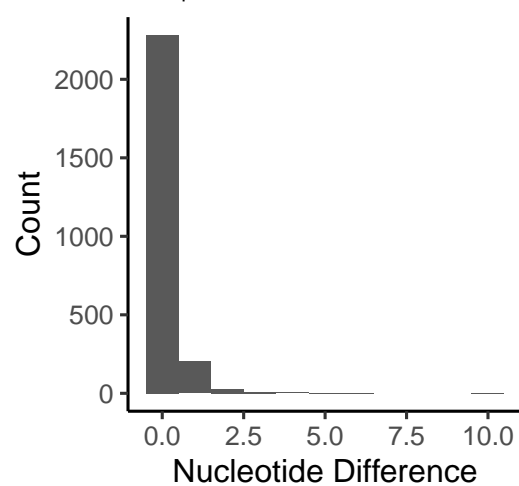
IGHV1-46*01

1022 sequences assigned
937 (91.7%) exact matches, in which:
915 unique CDR3
6 unique J



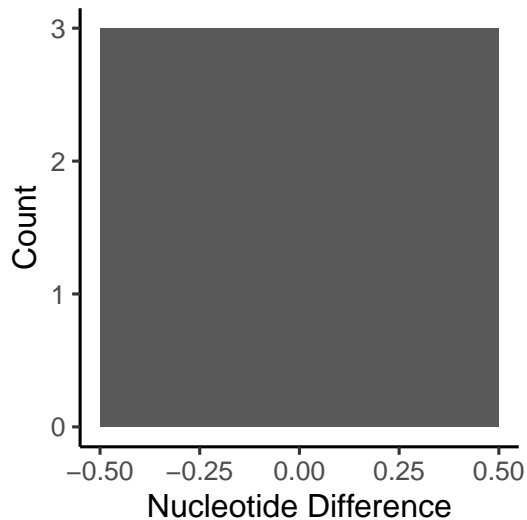
IGHV1-69*04

2530 sequences assigned
2282 (90.2%) exact matches, in which:
2211 unique CDR3
6 unique J



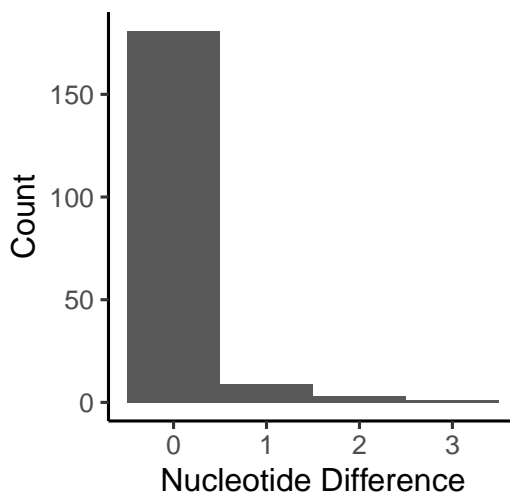
IGHV1–69D*01

3 sequences assigned
3 (100%) exact matches, in which:
3 unique CDR3
2 unique J



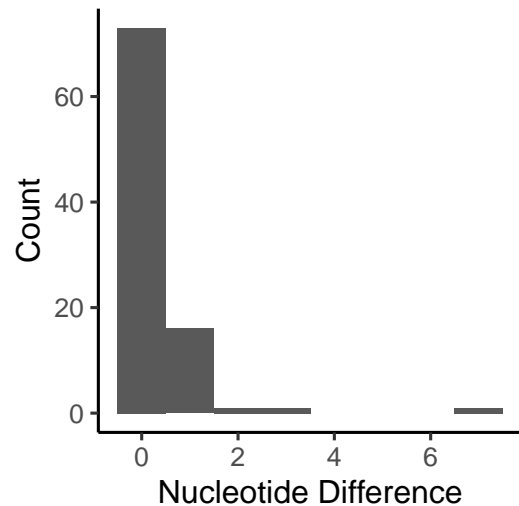
IGHV2–70*15

194 sequences assigned
181 (93.3%) exact matches, in which:
181 unique CDR3
5 unique J



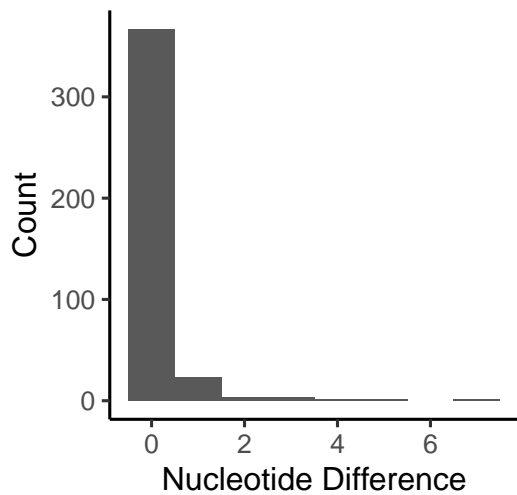
IGHV3–11*06

92 sequences assigned
73 (79.3%) exact matches, in which:
73 unique CDR3
6 unique J



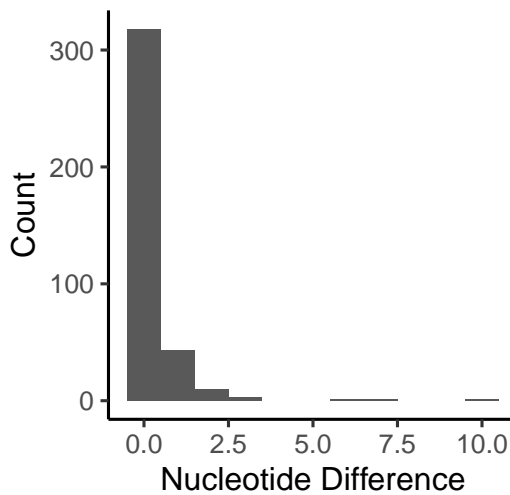
IGHV2–5*02

399 sequences assigned
367 (92%) exact matches, in which:
362 unique CDR3
6 unique J



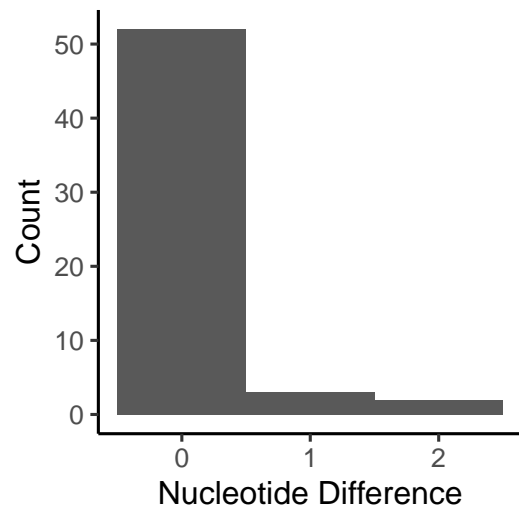
IGHV3–7*03

378 sequences assigned
318 (84.1%) exact matches, in which:
312 unique CDR3
6 unique J



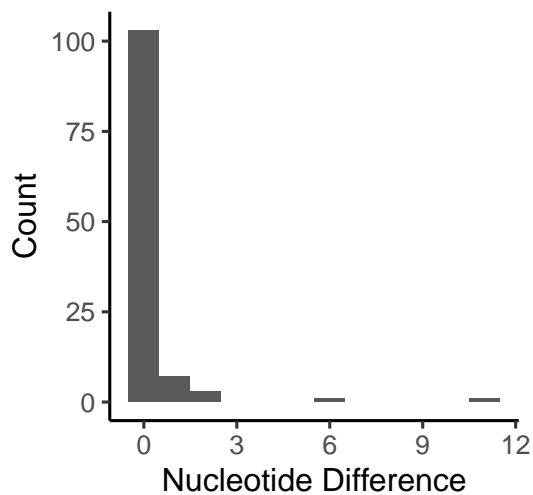
IGHV3–13*01_G290A_T30

57 sequences assigned
52 (91.2%) exact matches, in which:
50 unique CDR3
5 unique J



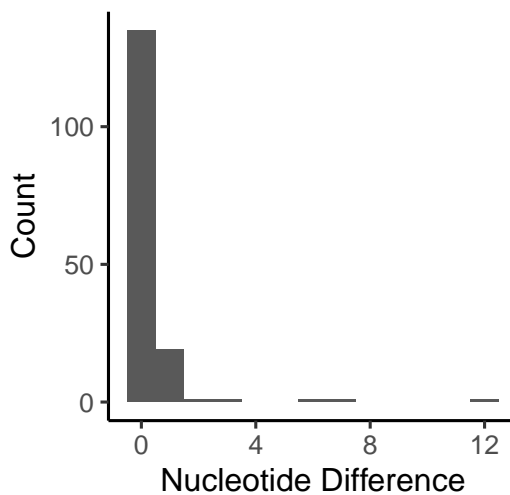
IGHV2–26*01

115 sequences assigned
103 (89.6%) exact matches, in which:
103 unique CDR3
6 unique J



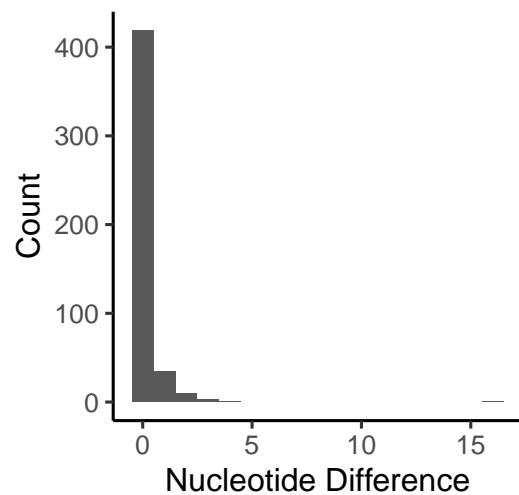
IGHV3–7*04

159 sequences assigned
135 (84.9%) exact matches, in which:
130 unique CDR3
6 unique J



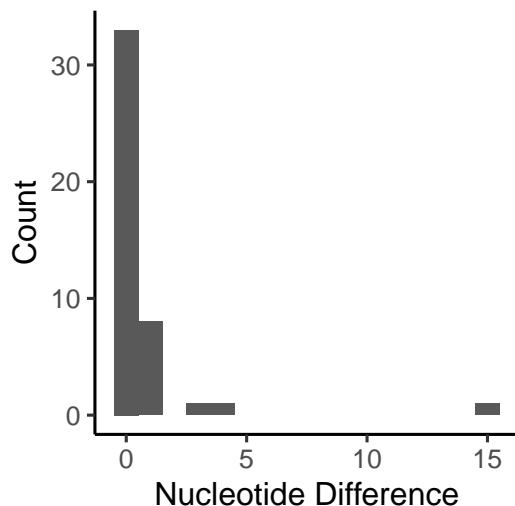
IGHV3–15*07

468 sequences assigned
419 (89.5%) exact matches, in which:
405 unique CDR3
6 unique J



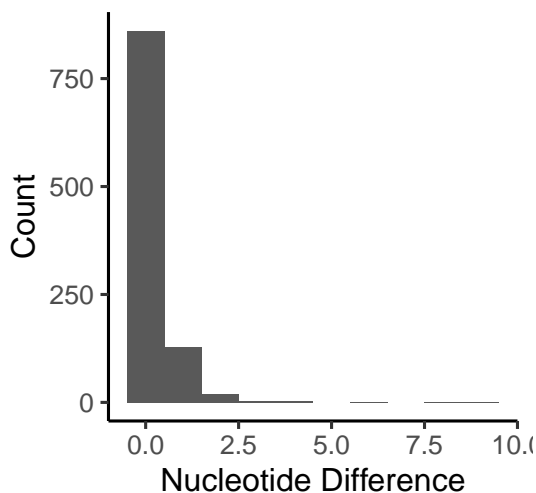
IGHV3-20*04

44 sequences assigned
33 (75%) exact matches, in which:
32 unique CDR3
5 unique J



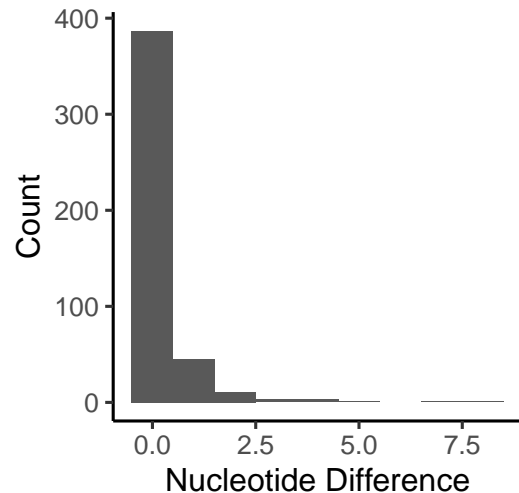
IGHV3-33*01

1020 sequences assigned
861 (84.4%) exact matches, in which:
837 unique CDR3
6 unique J



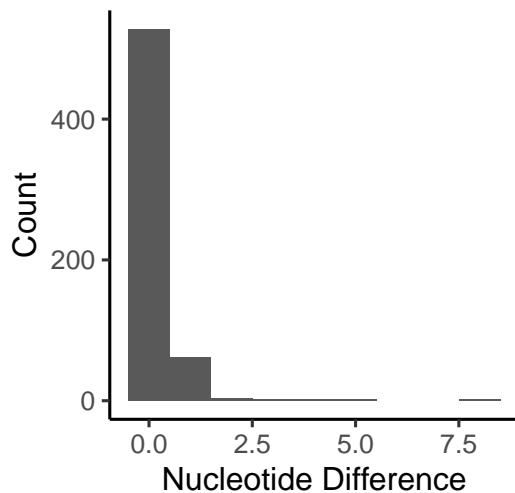
IGHV3-43*02

453 sequences assigned
387 (85.4%) exact matches, in which:
373 unique CDR3
6 unique J



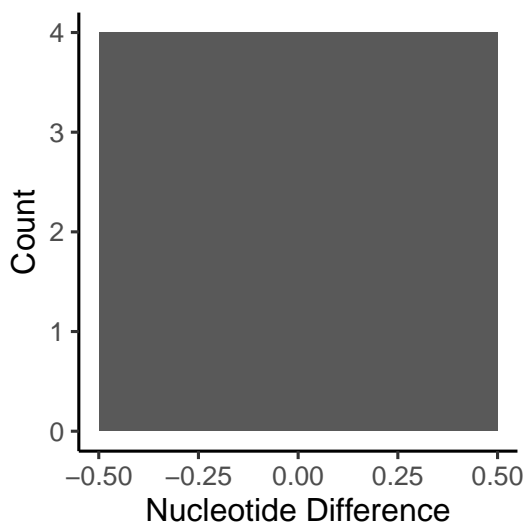
IGHV3-21*01

601 sequences assigned
528 (87.9%) exact matches, in which:
507 unique CDR3
6 unique J



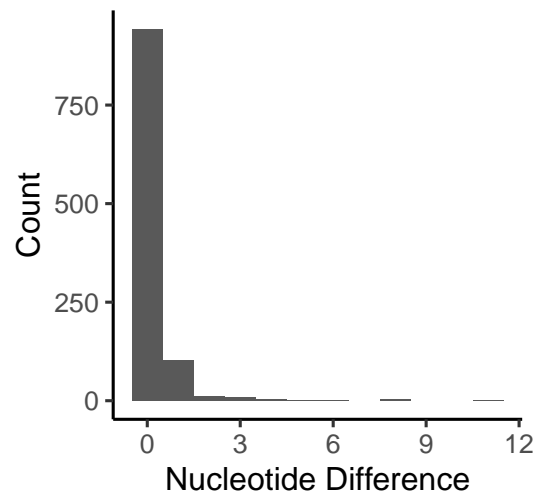
IGHV3-38-3*01

4 sequences assigned
4 (100%) exact matches, in which:
4 unique CDR3
3 unique J



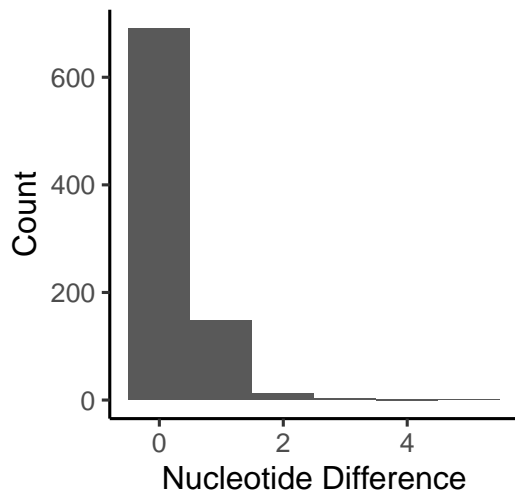
IGHV3-48*03

1077 sequences assigned
943 (87.6%) exact matches, in which:
914 unique CDR3
6 unique J



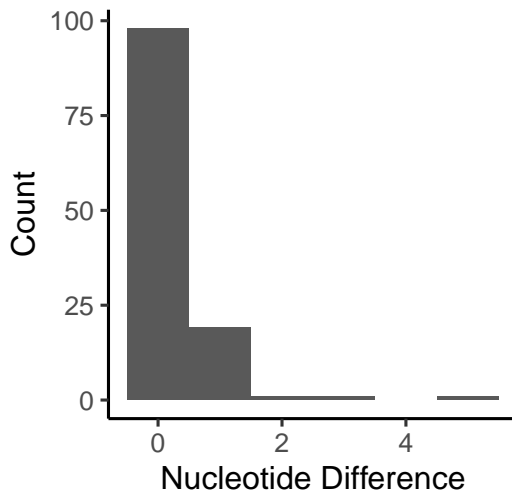
IGHV3-30-3*01

859 sequences assigned
691 (80.4%) exact matches, in which:
666 unique CDR3
6 unique J



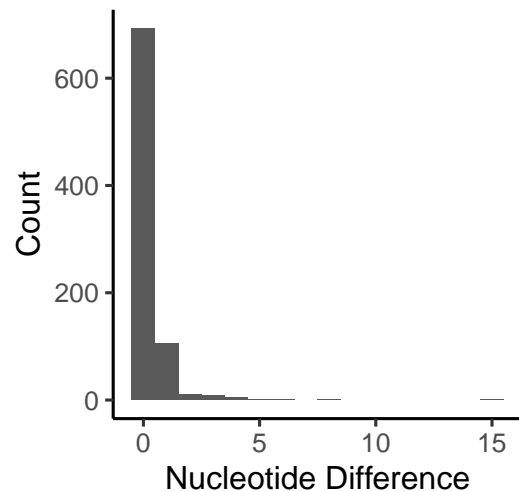
IGHV3-43*01

120 sequences assigned
98 (81.7%) exact matches, in which:
94 unique CDR3
6 unique J



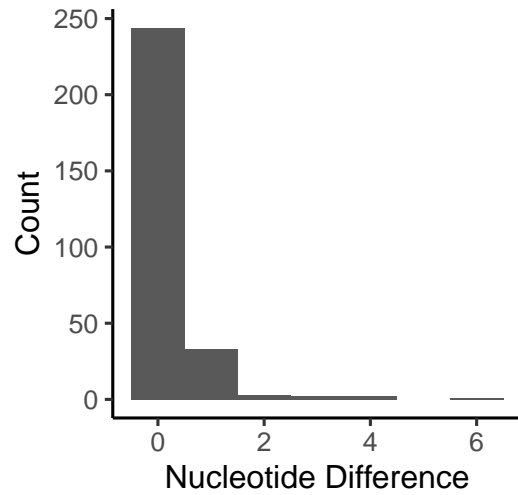
IGHV3-48*04

825 sequences assigned
693 (84%) exact matches, in which:
676 unique CDR3
6 unique J



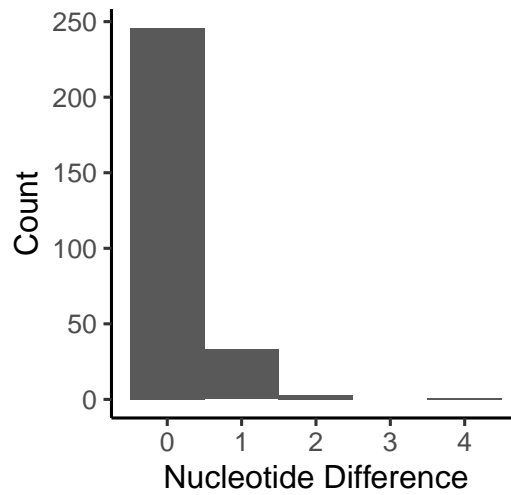
IGHV3-49*03

285 sequences assigned
244 (85.6%) exact matches, in which:
239 unique CDR3
6 unique J



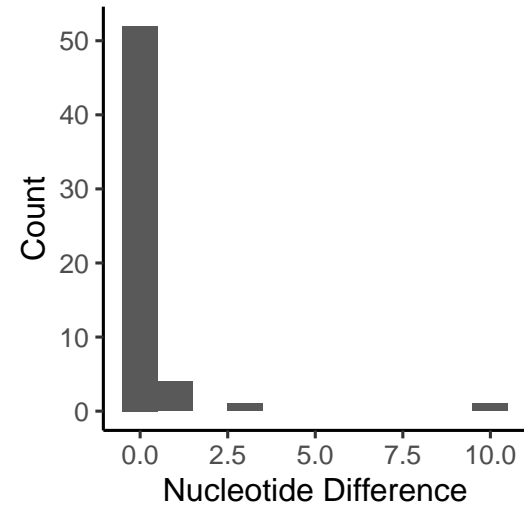
IGHV3-64*01

284 sequences assigned
246 (86.6%) exact matches, in which:
235 unique CDR3
6 unique J



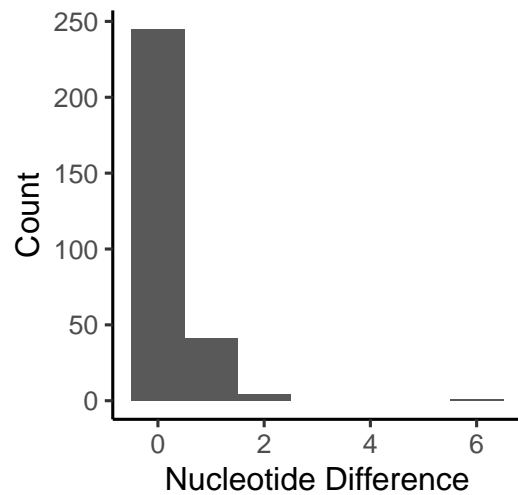
IGHV3-72*01

59 sequences assigned
52 (88.1%) exact matches, in which:
50 unique CDR3
5 unique J



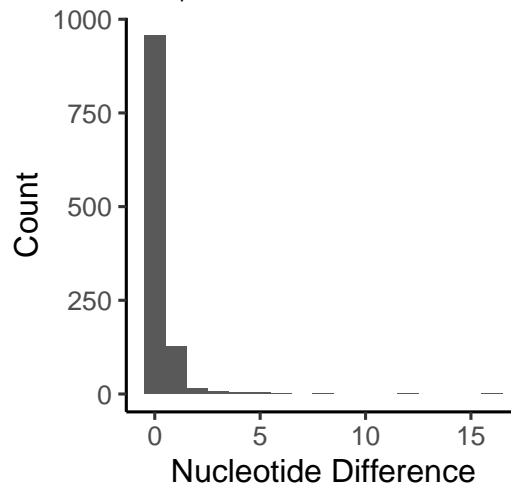
IGHV3-49*04

291 sequences assigned
245 (84.2%) exact matches, in which:
240 unique CDR3
6 unique J



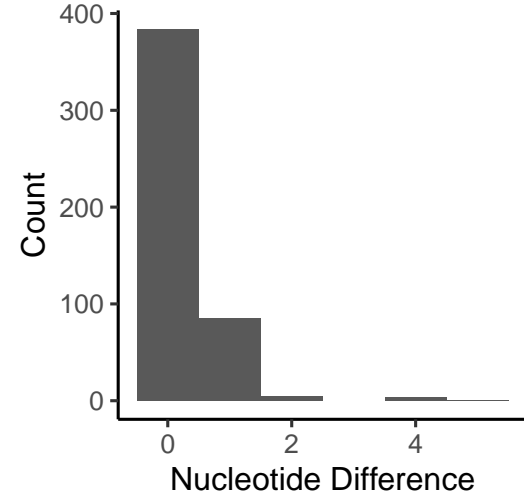
IGHV3-66*01

1119 sequences assigned
956 (85.4%) exact matches, in which:
907 unique CDR3
6 unique J



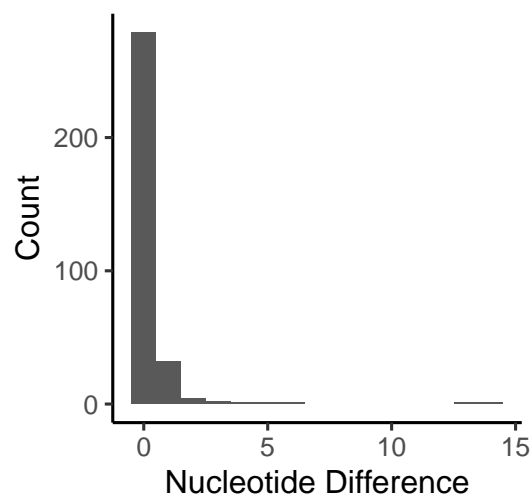
IGHV3-73*01

479 sequences assigned
384 (80.2%) exact matches, in which:
360 unique CDR3
6 unique J



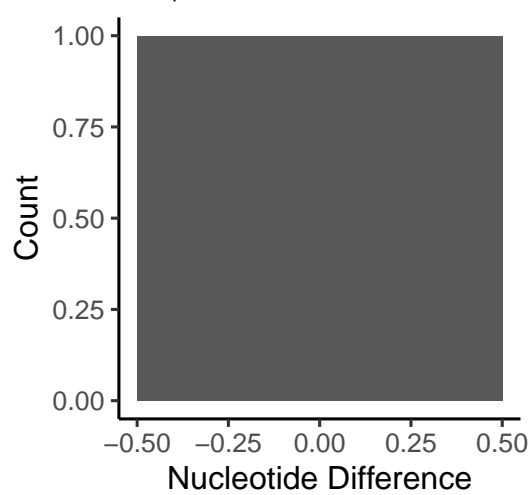
IGHV3-53*04

322 sequences assigned
279 (86.6%) exact matches, in which:
273 unique CDR3
6 unique J



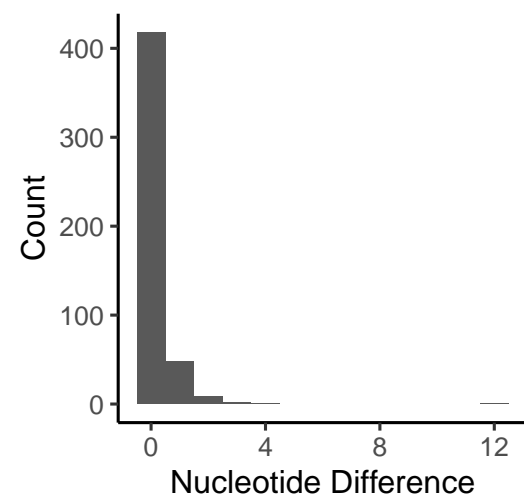
IGHV3-69-1*02

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



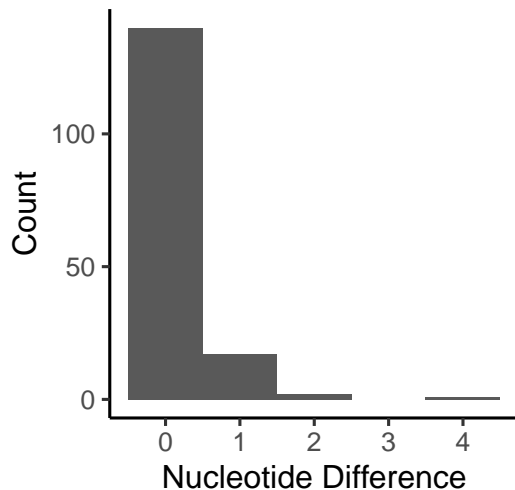
IGHV3-74*01

478 sequences assigned
418 (87.4%) exact matches, in which:
409 unique CDR3
6 unique J



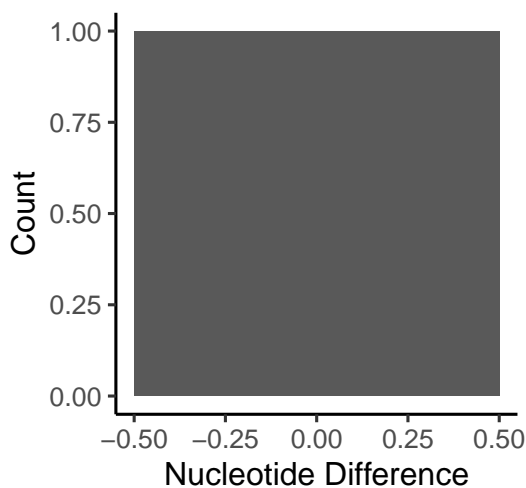
IGHV3-43D*03

160 sequences assigned
140 (87.5%) exact matches, in which:
137 unique CDR3
5 unique J



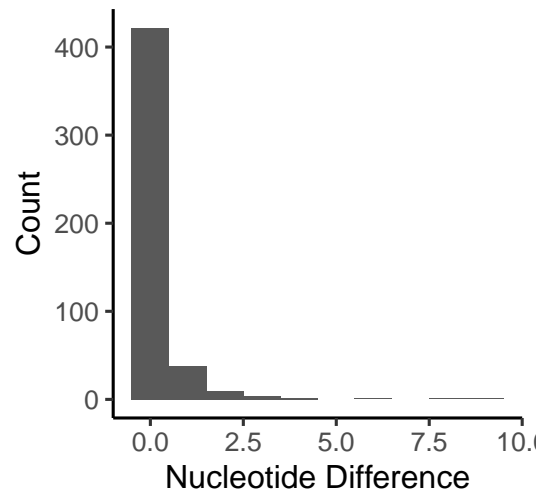
IGHV4-28*01

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



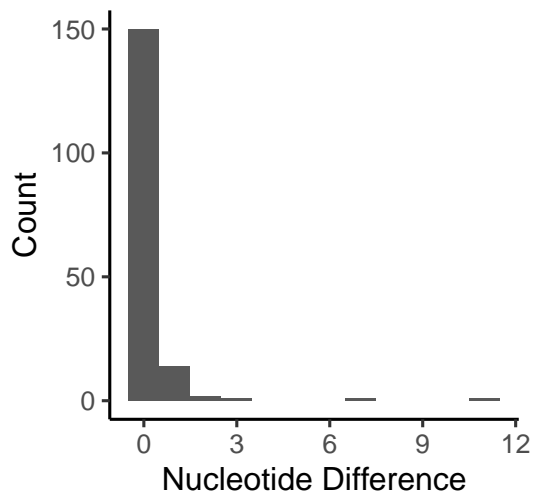
IGHV4-31*03

479 sequences assigned
422 (88.1%) exact matches, in which:
416 unique CDR3
6 unique J



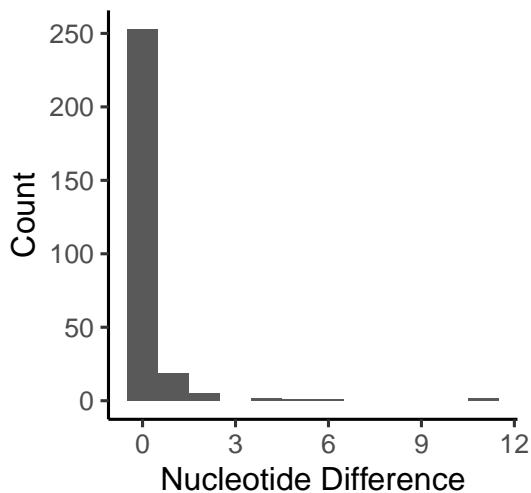
IGHV3-64D*06

169 sequences assigned
150 (88.8%) exact matches, in which:
147 unique CDR3
6 unique J



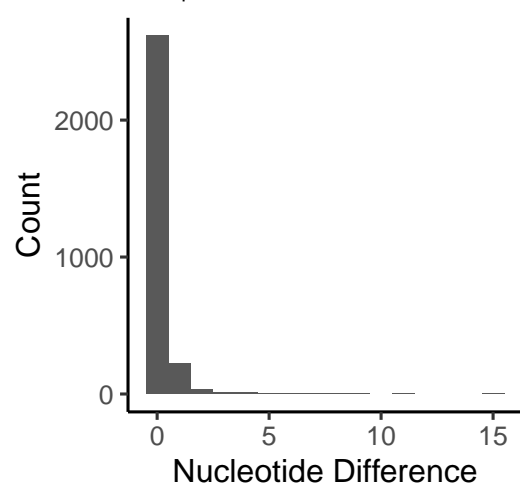
IGHV4-30-4*01

283 sequences assigned
253 (89.4%) exact matches, in which:
248 unique CDR3
6 unique J



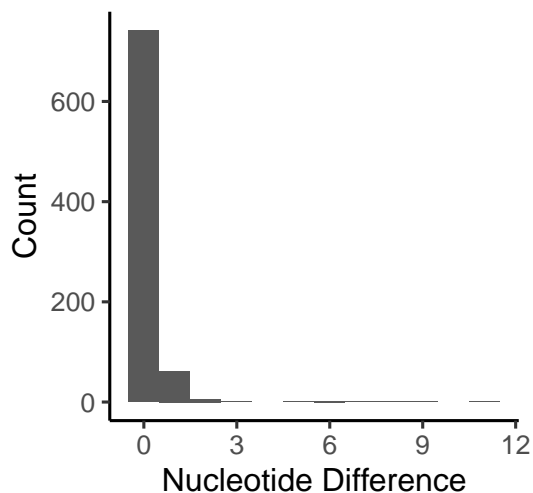
IGHV4-34*01

2919 sequences assigned
2616 (89.6%) exact matches, in which:
2538 unique CDR3
6 unique J



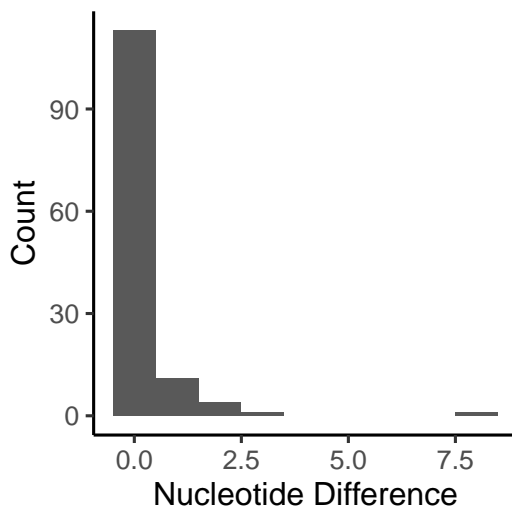
IGHV4-4*02

826 sequences assigned
742 (89.8%) exact matches, in which:
732 unique CDR3
6 unique J



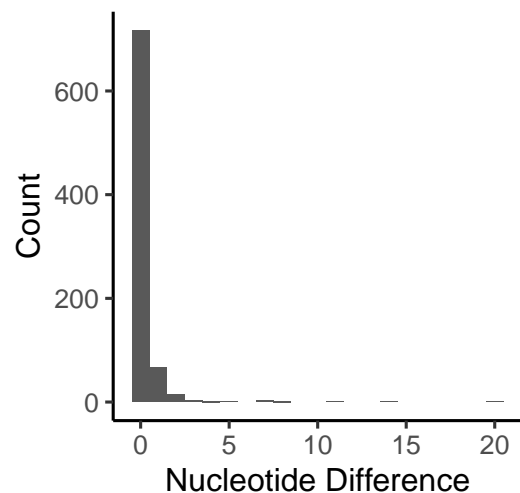
IGHV4-30-2*01

130 sequences assigned
113 (86.9%) exact matches, in which:
112 unique CDR3
5 unique J



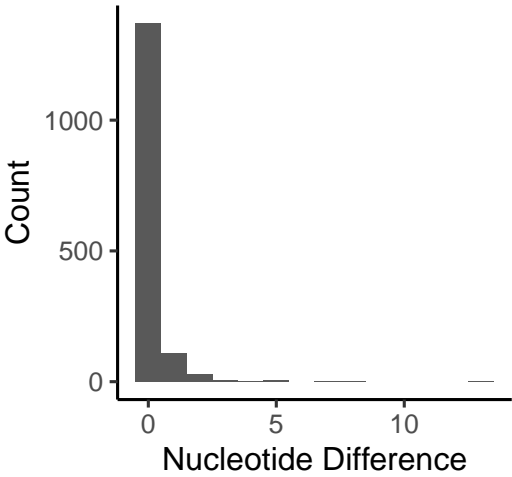
IGHV4-38-2*02

812 sequences assigned
717 (88.3%) exact matches, in which:
693 unique CDR3
6 unique J



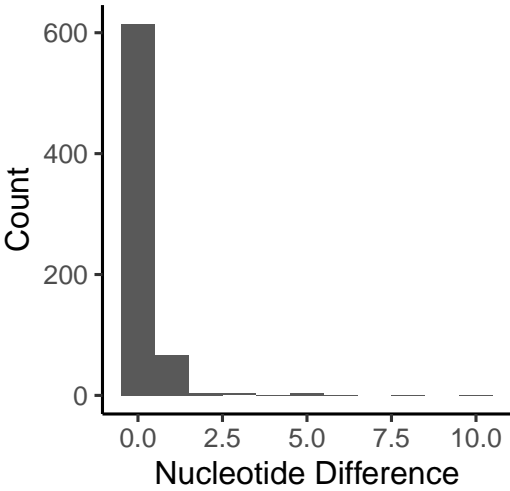
IGHV4-39*01

1523 sequences assigned
1370 (90%) exact matches, in which:
1322 unique CDR3
6 unique J



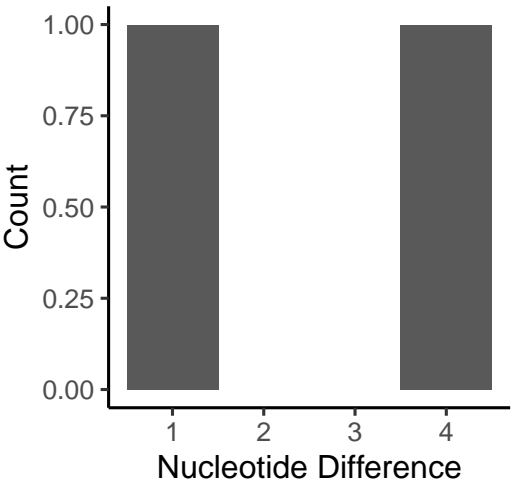
IGHV4-59*01

697 sequences assigned
615 (88.2%) exact matches, in which:
607 unique CDR3
6 unique J



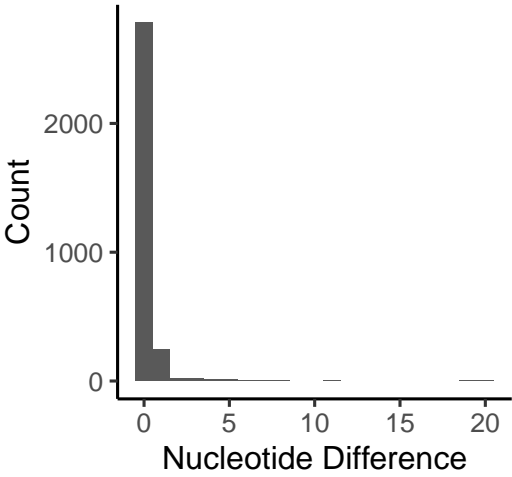
IGHV4-61*05

2 sequences assigned
No exact matches.



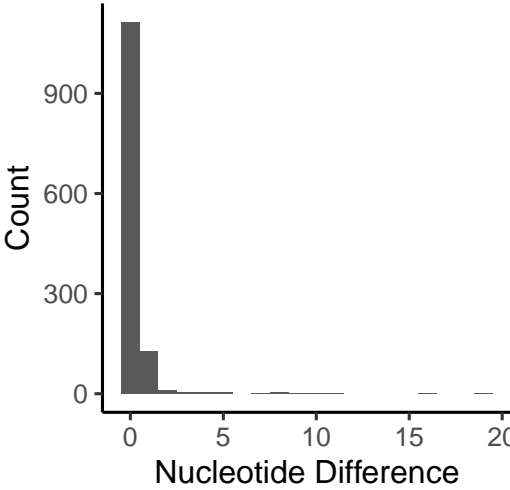
IGHV4-39*07

3102 sequences assigned
2782 (89.7%) exact matches, in which:
2693 unique CDR3
6 unique J



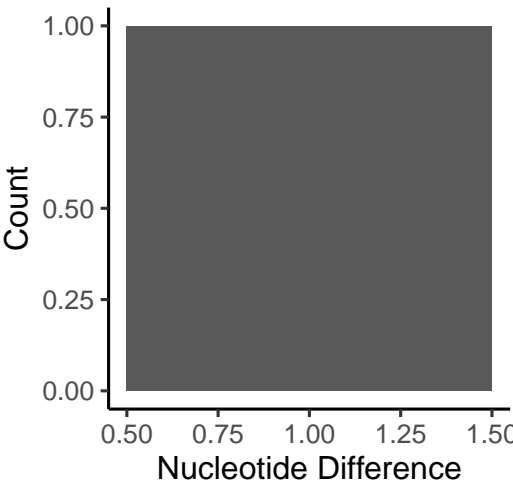
IGHV4-59*08

1273 sequences assigned
1114 (87.5%) exact matches, in which:
1091 unique CDR3
6 unique J



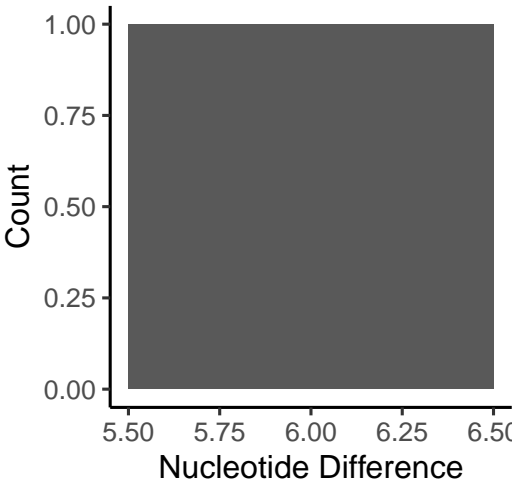
IGHV1/OR15-4*01

1 sequences assigned
No exact matches.



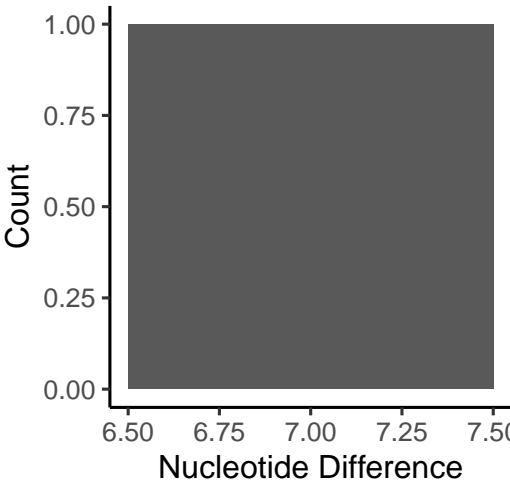
IGHV4-55*08

1 sequences assigned
No exact matches.



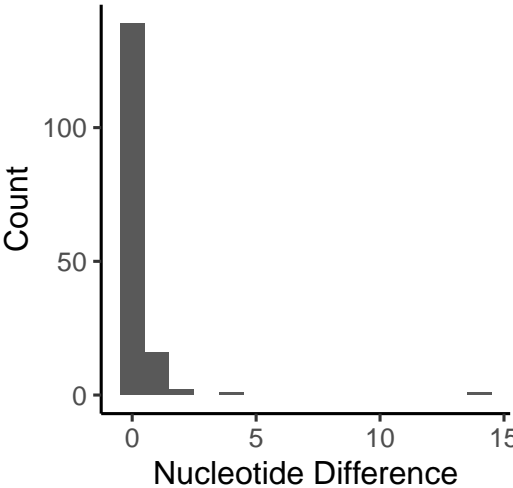
IGHV4-61*01

1 sequences assigned
No exact matches.



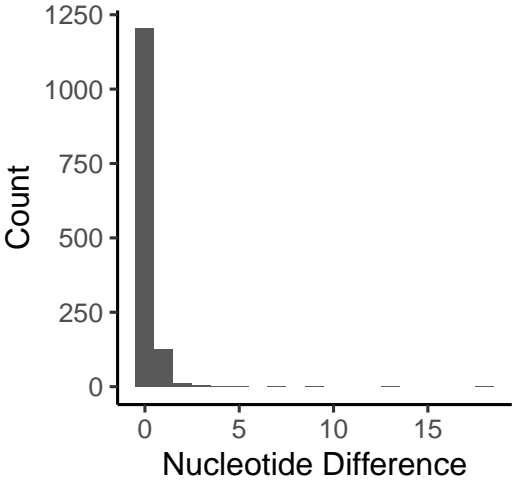
IGHV5-10-1*03

160 sequences assigned
139 (86.9%) exact matches, in which:
134 unique CDR3
5 unique J



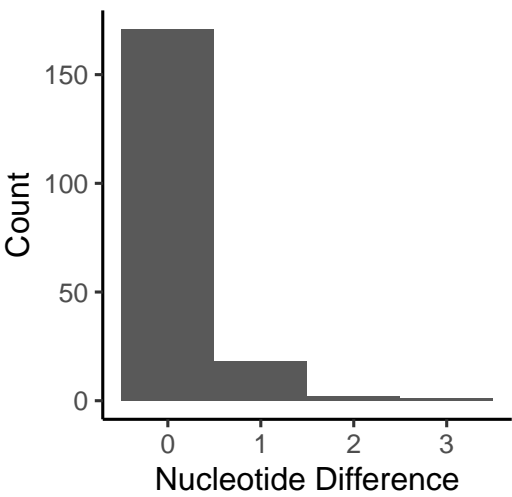
IGHV5-51*01

1358 sequences assigned
1204 (88.7%) exact matches, in which:
1169 unique CDR3
6 unique J



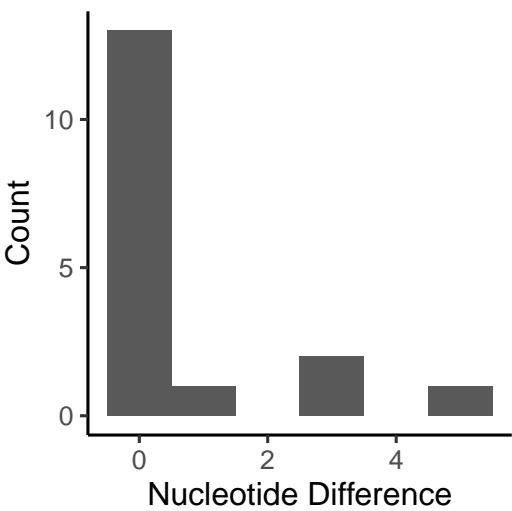
IGHV6-1*01

192 sequences assigned
171 (89.1%) exact matches, in which:
166 unique CDR3
6 unique J



IGHV7-4-1*01

17 sequences assigned
13 (76.5%) exact matches, in which:
13 unique CDR3
5 unique J





Warning – no inferred sequences found.