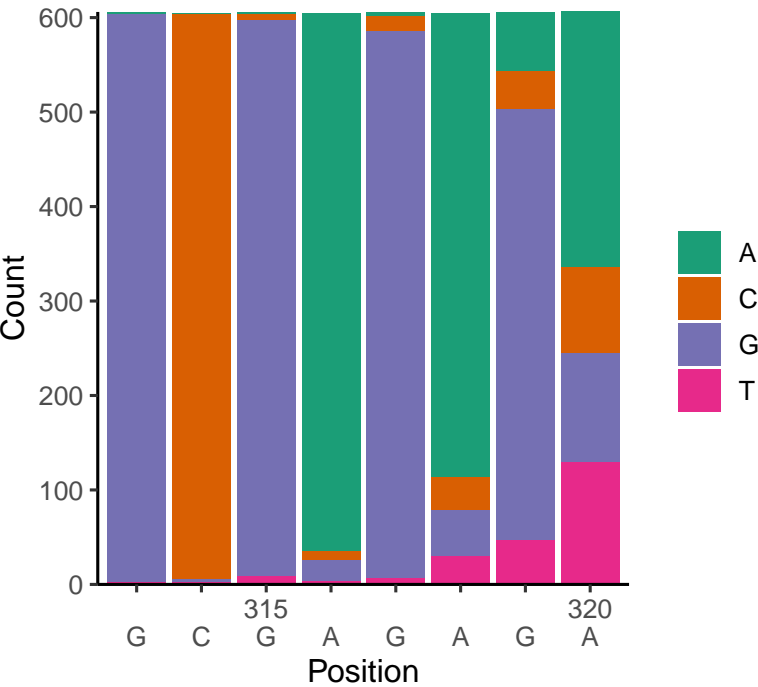
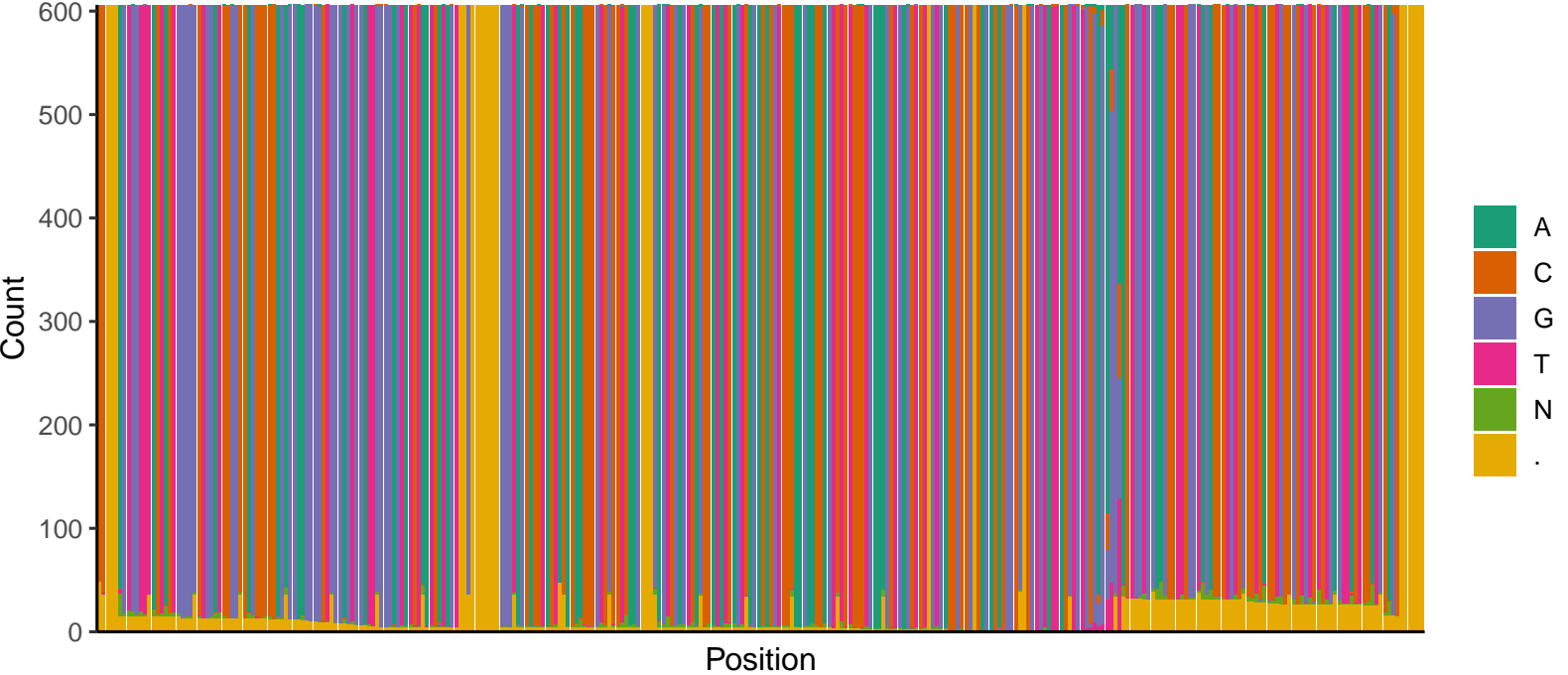


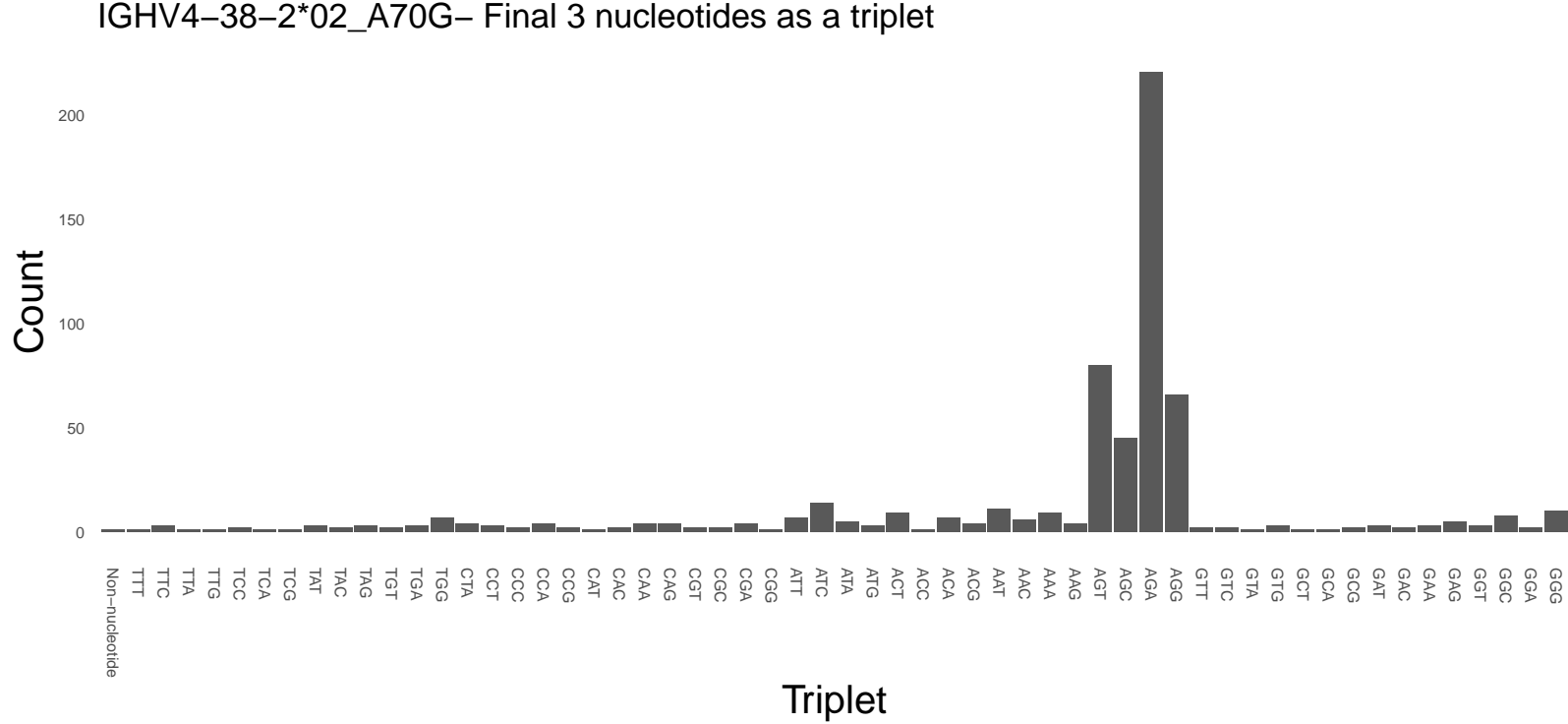
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

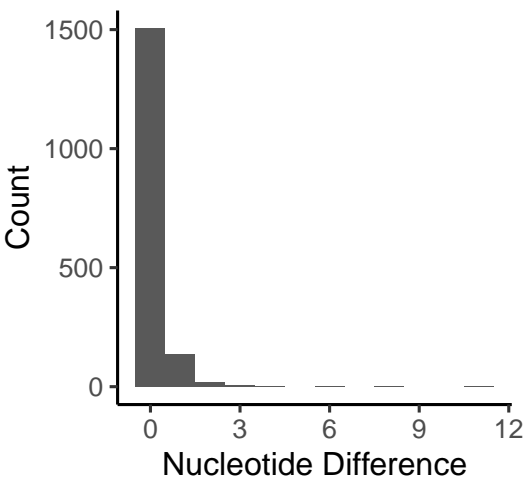


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



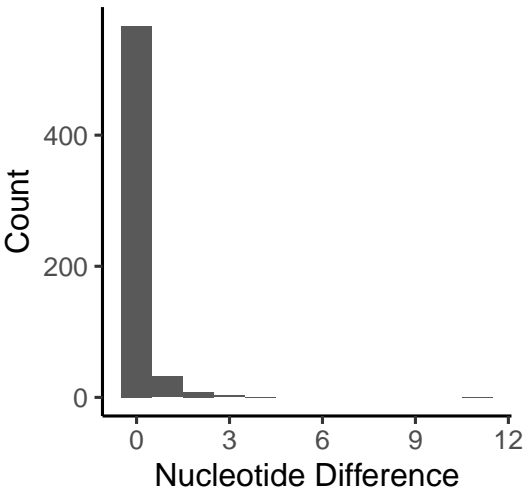
IGHV1-2*02

1669 sequences assigned
1505 (90.2%) exact matches, in which:
1479 unique CDR3
6 unique J



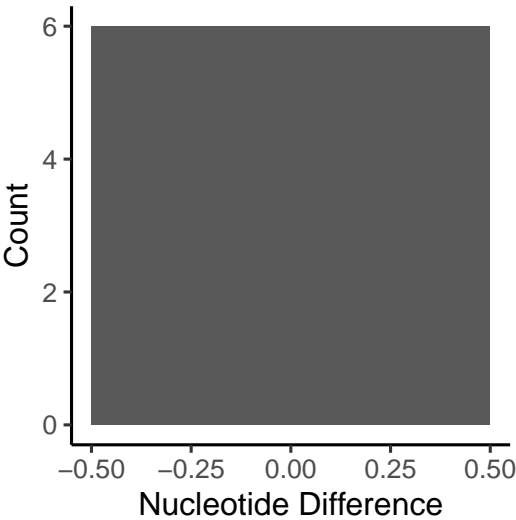
IGHV1-18*01

612 sequences assigned
567 (92.6%) exact matches, in which:
563 unique CDR3
6 unique J



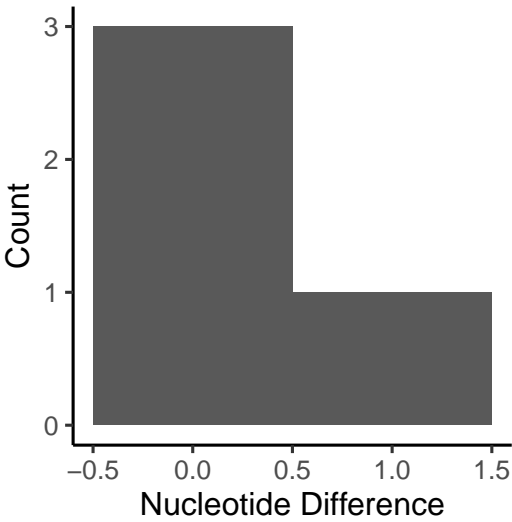
IGHV1-45*02

6 sequences assigned
6 (100%) exact matches, in which:
6 unique CDR3
4 unique J



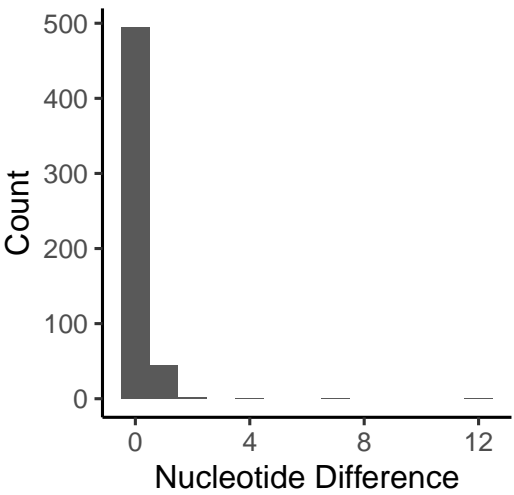
IGHV1-3*02

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
3 unique J



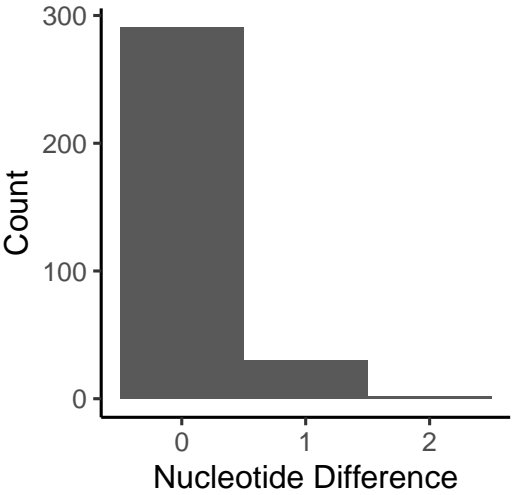
IGHV1-18*04

544 sequences assigned
495 (91%) exact matches, in which:
491 unique CDR3
6 unique J



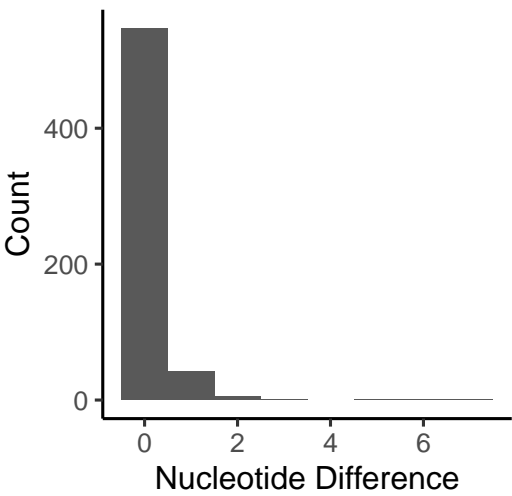
IGHV1-46*01

323 sequences assigned
291 (90.1%) exact matches, in which:
287 unique CDR3
6 unique J



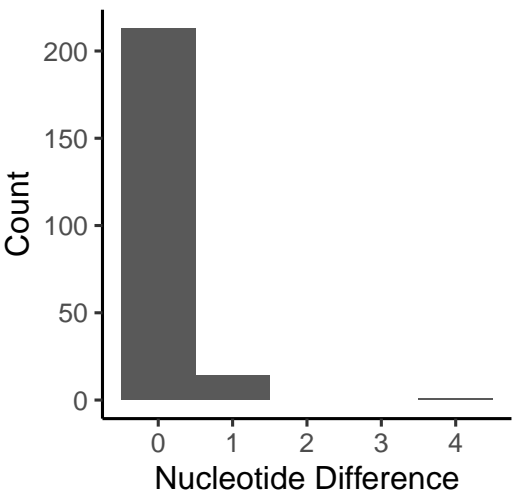
IGHV1-8*01

598 sequences assigned
547 (91.5%) exact matches, in which:
538 unique CDR3
6 unique J



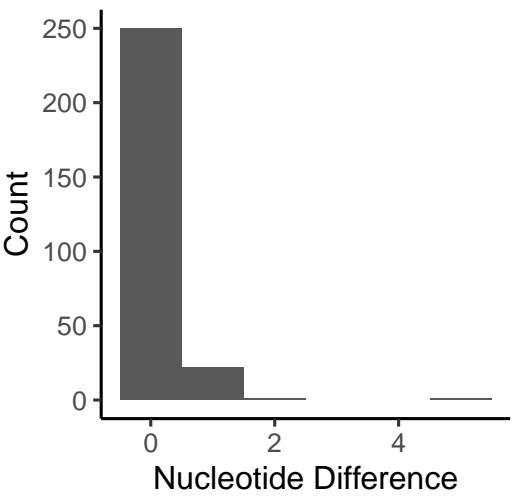
IGHV1-24*01

228 sequences assigned
213 (93.4%) exact matches, in which:
211 unique CDR3
6 unique J



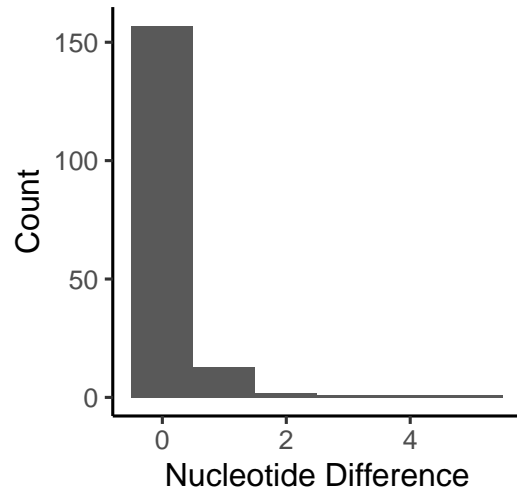
IGHV1-46*03

274 sequences assigned
250 (91.2%) exact matches, in which:
242 unique CDR3
6 unique J



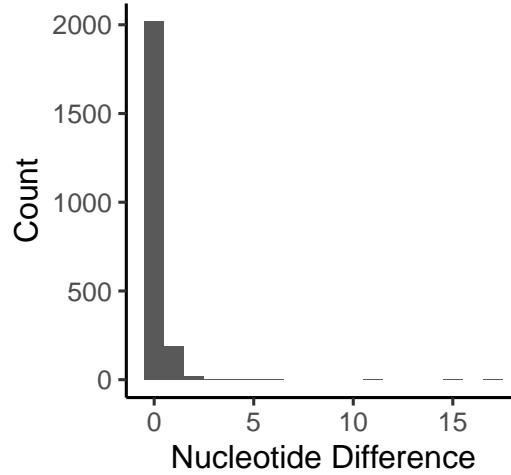
IGHV1–58*01

175 sequences assigned
157 (89.7%) exact matches, in which:
155 unique CDR3
5 unique J



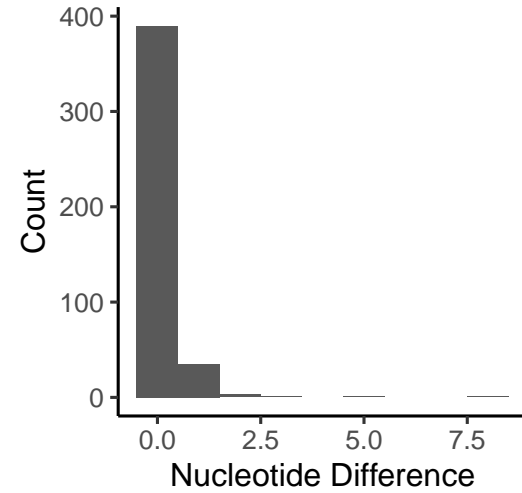
IGHV1–69*06

2236 sequences assigned
2019 (90.3%) exact matches, in which:
1977 unique CDR3
6 unique J



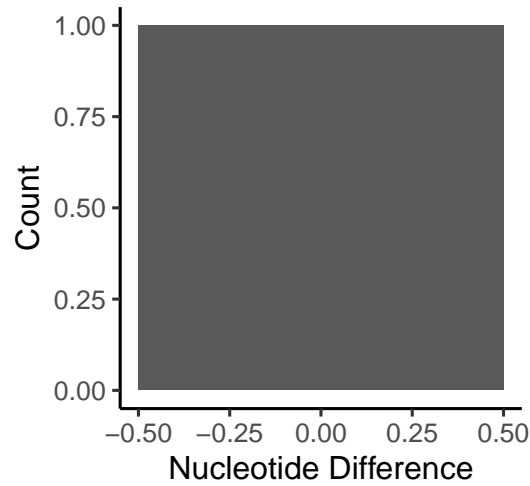
IGHV2–26*01

431 sequences assigned
390 (90.5%) exact matches, in which:
387 unique CDR3
5 unique J



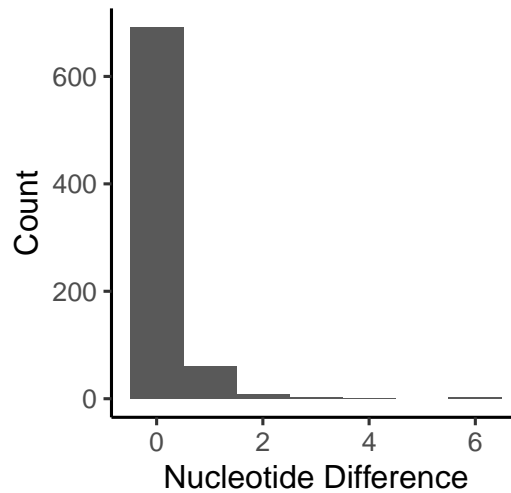
IGHV1–68*02

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



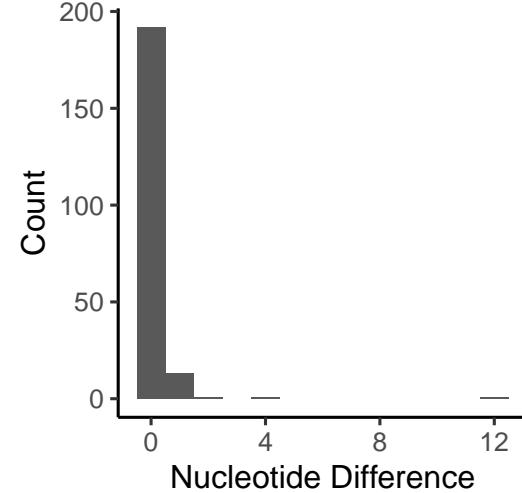
IGHV2–5*01

767 sequences assigned
692 (90.2%) exact matches, in which:
679 unique CDR3
6 unique J



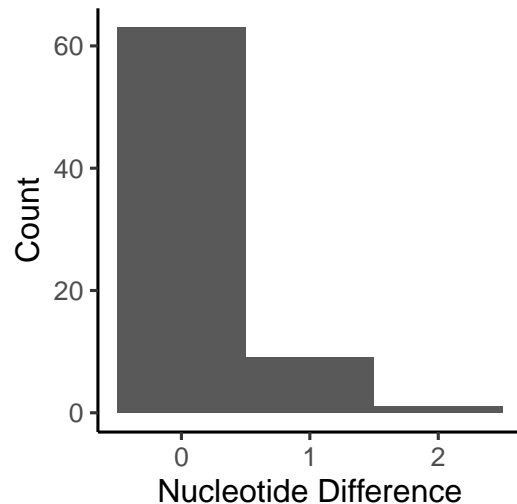
IGHV2–70*01

208 sequences assigned
192 (92.3%) exact matches, in which:
191 unique CDR3
5 unique J



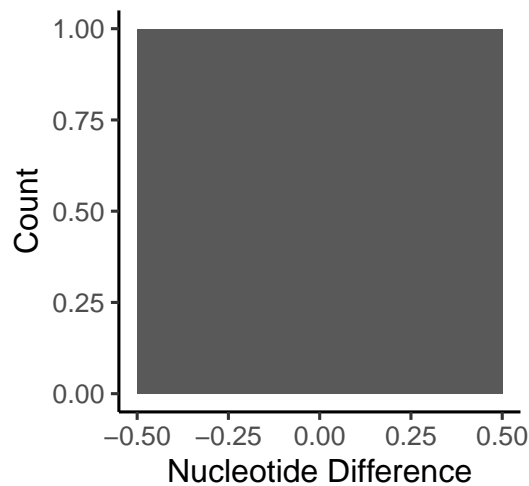
IGHV1–69–2*01

73 sequences assigned
63 (86.3%) exact matches, in which:
63 unique CDR3
6 unique J



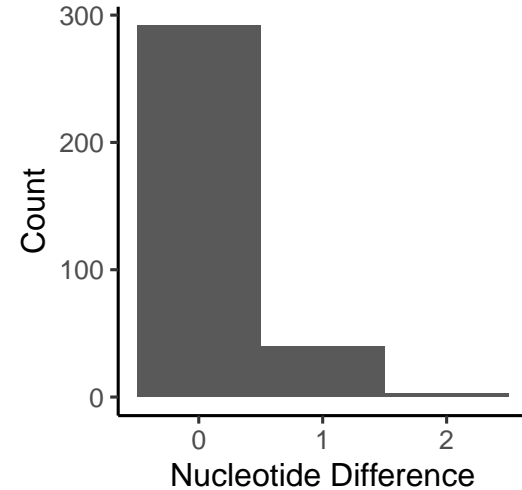
IGHV2–10*01

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



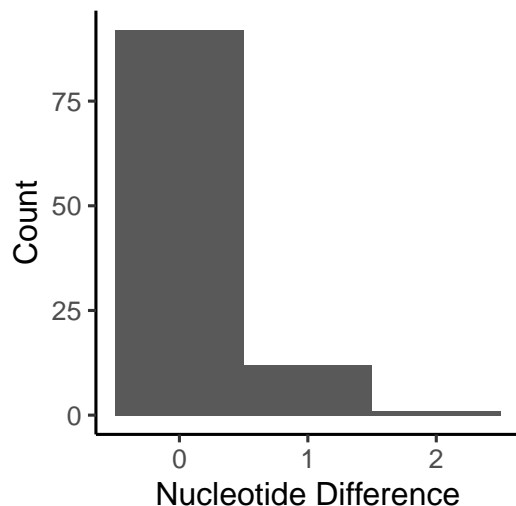
IGHV3–7*01

335 sequences assigned
292 (87.2%) exact matches, in which:
289 unique CDR3
6 unique J



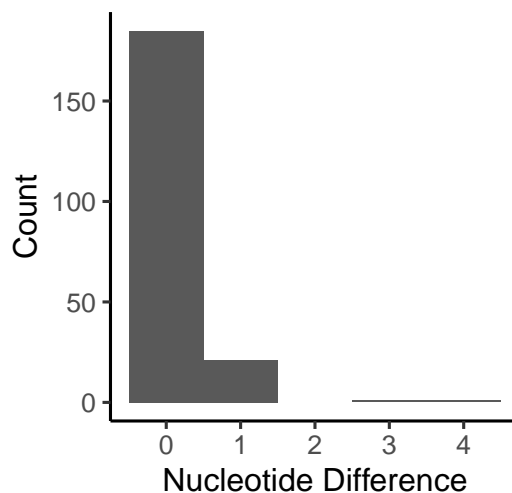
IGHV3-7*05

105 sequences assigned
92 (87.6%) exact matches, in which:
91 unique CDR3
6 unique J



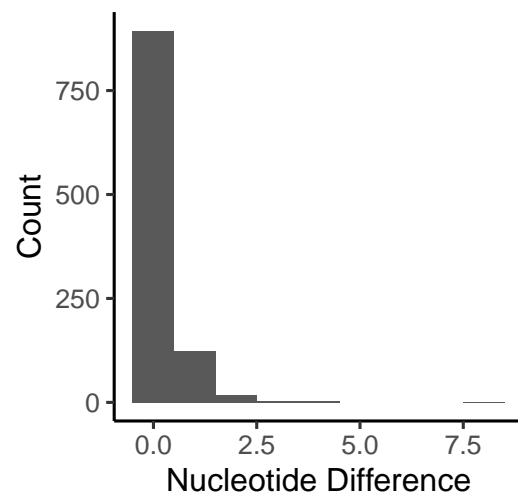
IGHV3-11*06

208 sequences assigned
185 (88.9%) exact matches, in which:
185 unique CDR3
6 unique J



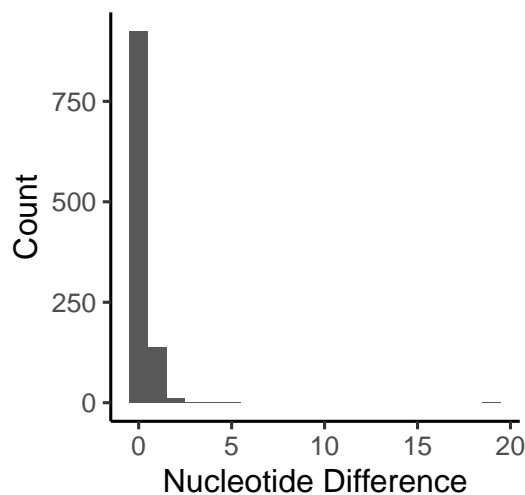
IGHV3-15*01

1042 sequences assigned
894 (85.8%) exact matches, in which:
877 unique CDR3
6 unique J



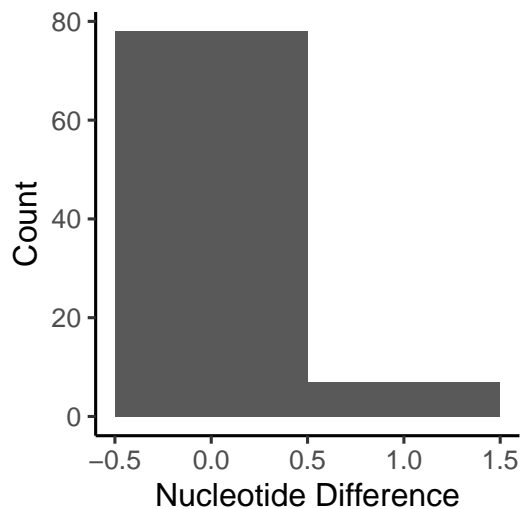
IGHV3-9*01

1081 sequences assigned
925 (85.6%) exact matches, in which:
899 unique CDR3
6 unique J



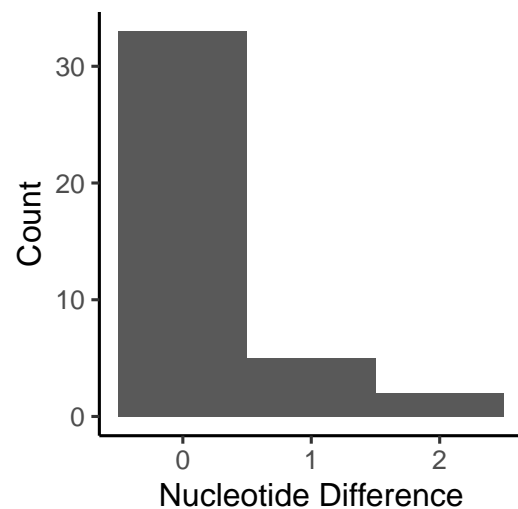
IGHV3-13*01

85 sequences assigned
78 (91.8%) exact matches, in which:
76 unique CDR3
4 unique J



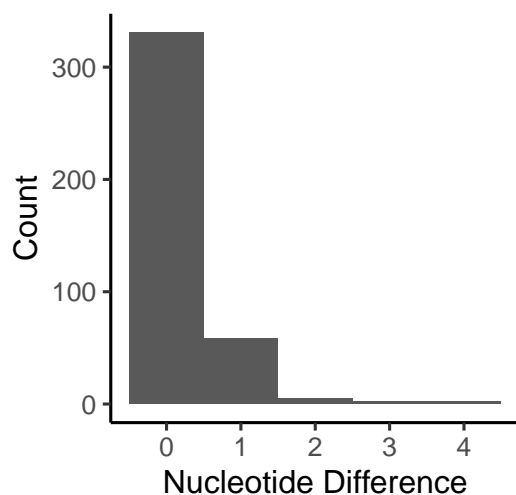
IGHV3-20*01

40 sequences assigned
33 (82.5%) exact matches, in which:
33 unique CDR3
5 unique J



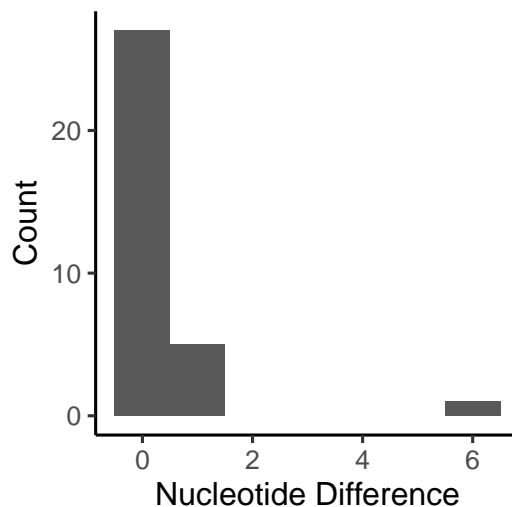
IGHV3-11*01

398 sequences assigned
331 (83.2%) exact matches, in which:
329 unique CDR3
6 unique J



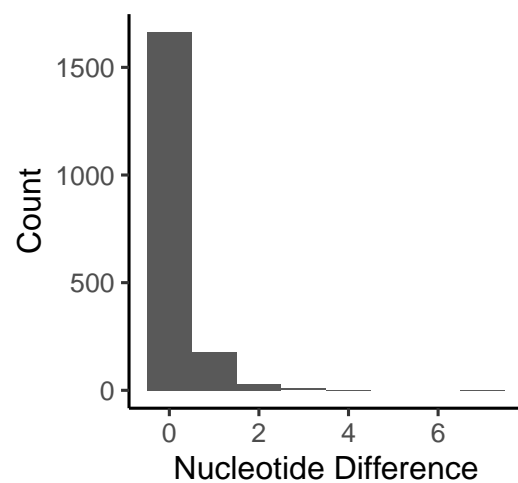
IGHV3-13*05

33 sequences assigned
27 (81.8%) exact matches, in which:
27 unique CDR3
4 unique J



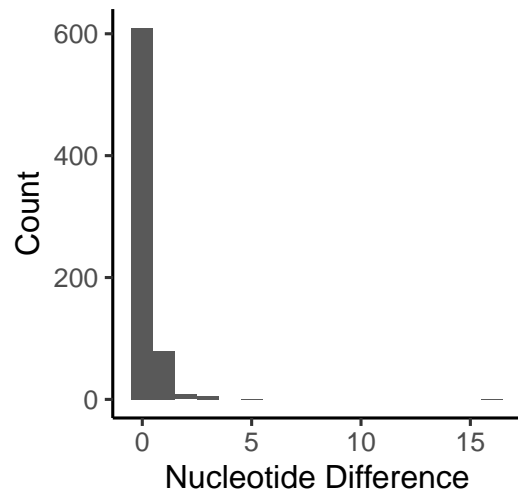
IGHV3-21*01

1882 sequences assigned
1664 (88.4%) exact matches, in which:
1629 unique CDR3
6 unique J



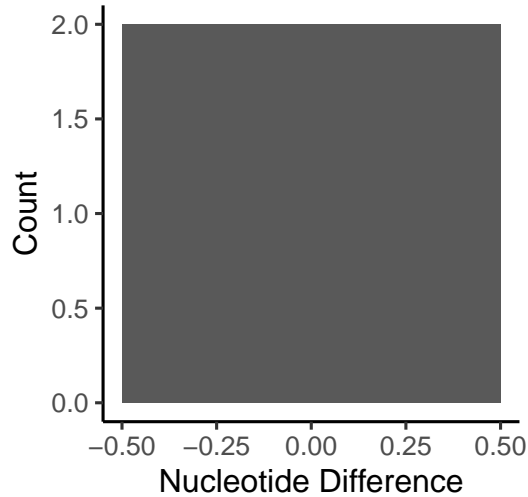
IGHV3–30*01

706 sequences assigned
610 (86.4%) exact matches, in which:
599 unique CDR3
6 unique J



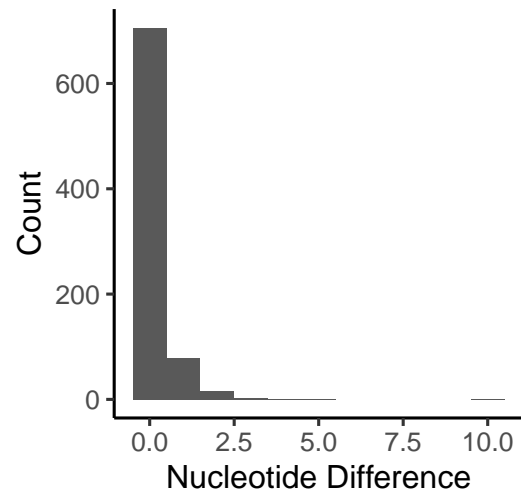
IGHV3–35*01

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



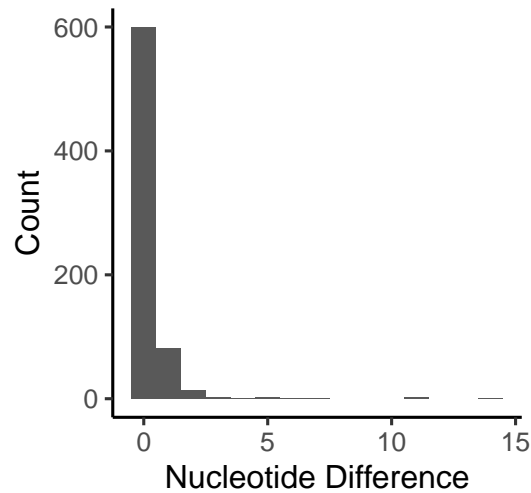
IGHV3–48*03

806 sequences assigned
706 (87.6%) exact matches, in which:
692 unique CDR3
6 unique J



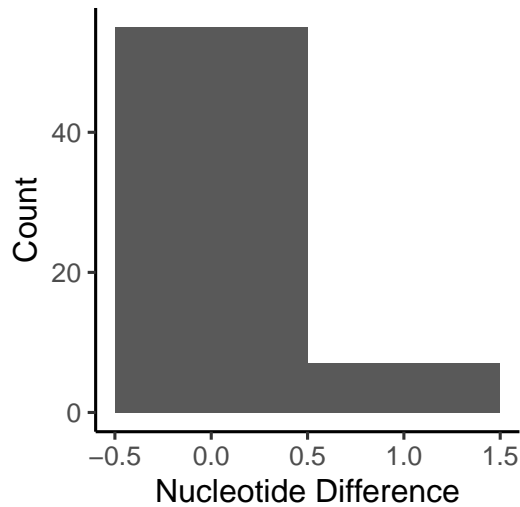
IGHV3–30–3*01

706 sequences assigned
600 (85%) exact matches, in which:
589 unique CDR3
6 unique J



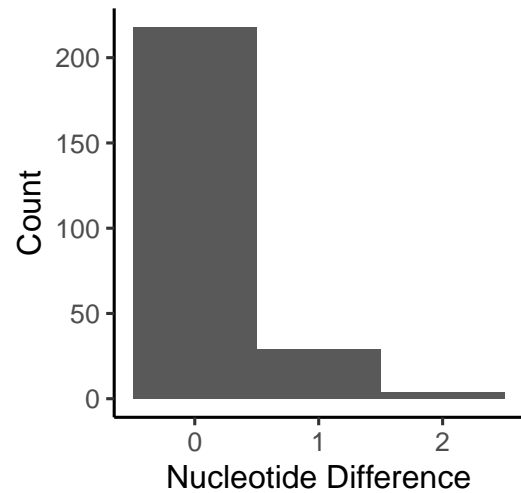
IGHV3–43*01

62 sequences assigned
55 (88.7%) exact matches, in which:
55 unique CDR3
6 unique J



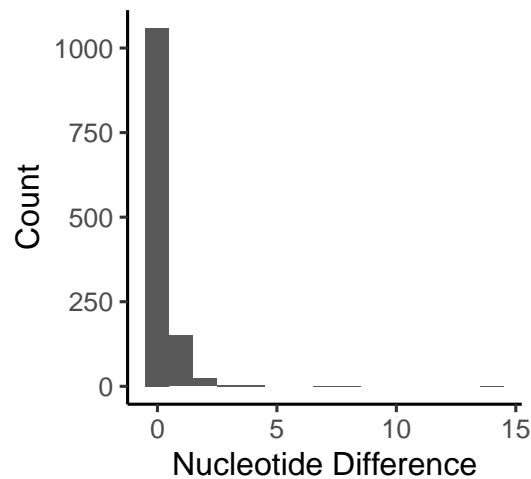
IGHV3–49*04

251 sequences assigned
218 (86.9%) exact matches, in which:
217 unique CDR3
6 unique J



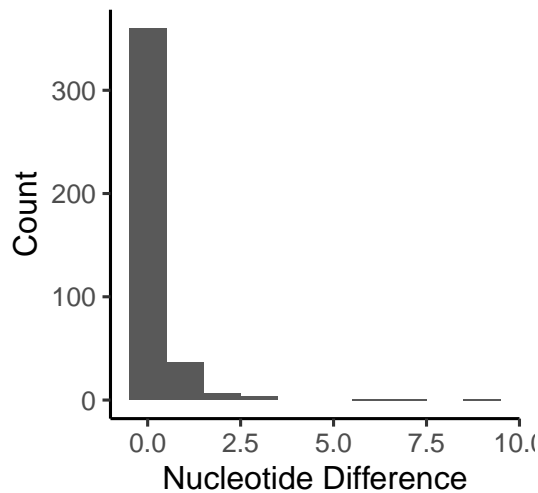
IGHV3–33*01

1241 sequences assigned
1059 (85.3%) exact matches, in which:
1041 unique CDR3
6 unique J



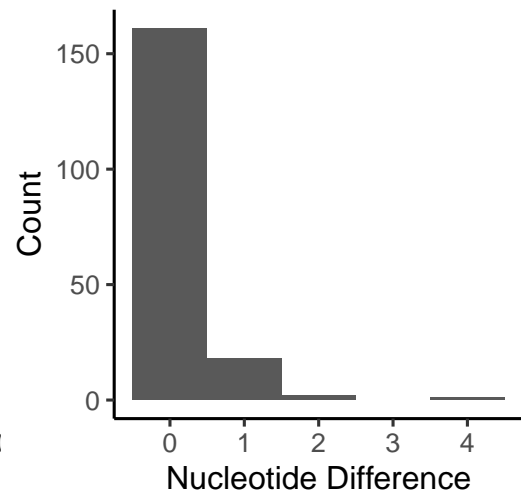
IGHV3–48*02

408 sequences assigned
360 (88.2%) exact matches, in which:
353 unique CDR3
6 unique J



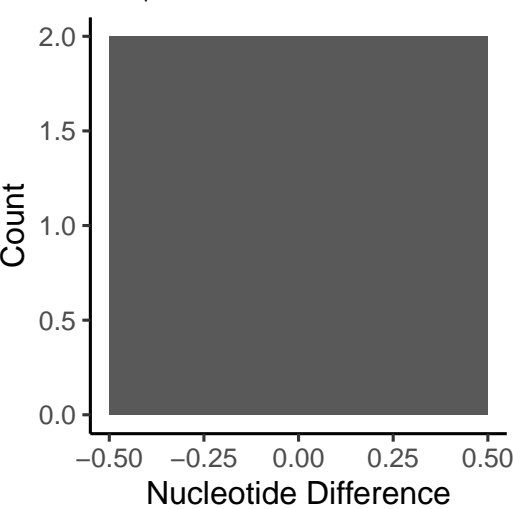
IGHV3–49*05

182 sequences assigned
161 (88.5%) exact matches, in which:
161 unique CDR3
6 unique J



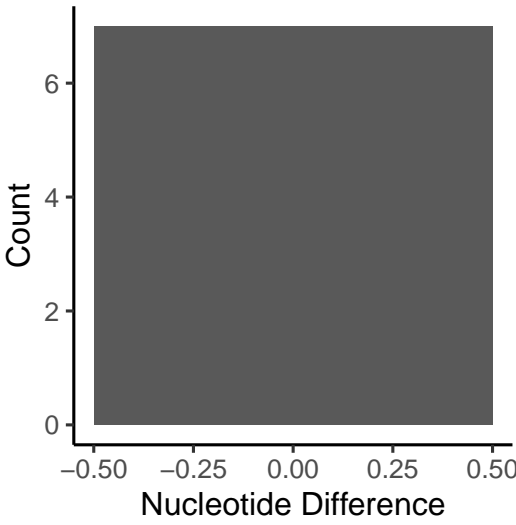
IGHV3-52*01

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



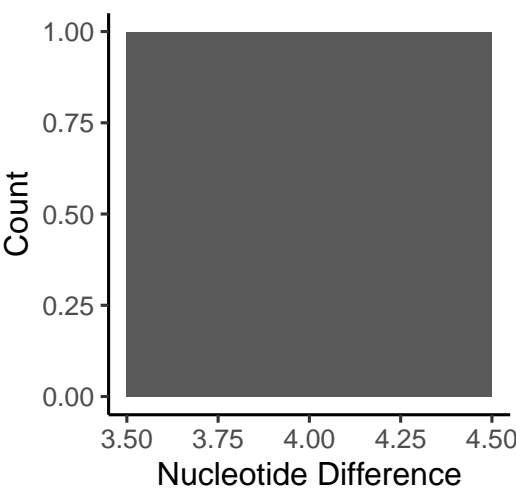
IGHV3-64*02

7 sequences assigned
7 (100%) exact matches, in which:
7 unique CDR3
4 unique J



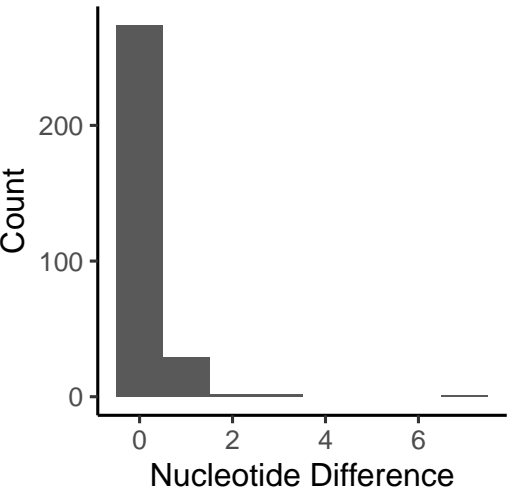
IGHV3-66*04

1 sequences assigned
No exact matches.



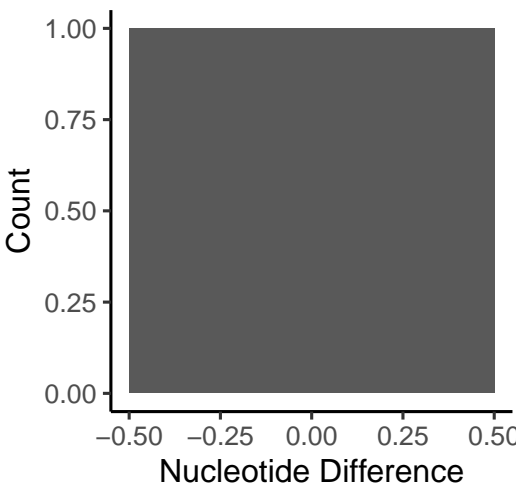
IGHV3-53*01

308 sequences assigned
274 (89%) exact matches, in which:
268 unique CDR3
6 unique J



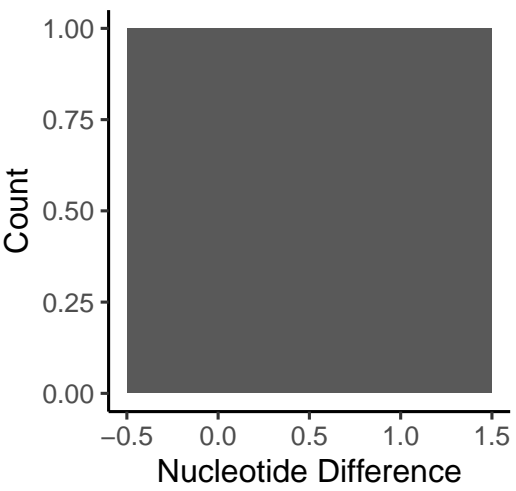
IGHV3-64*04

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



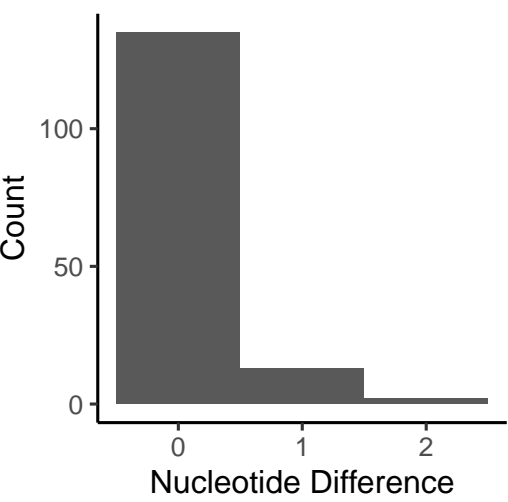
IGHV3-69-1*01

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



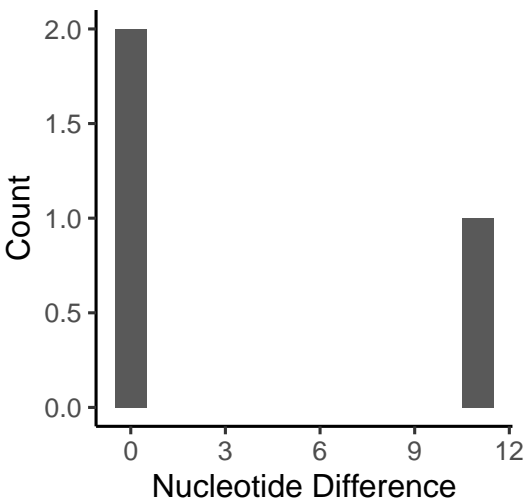
IGHV3-53*02

150 sequences assigned
135 (90%) exact matches, in which:
134 unique CDR3
6 unique J



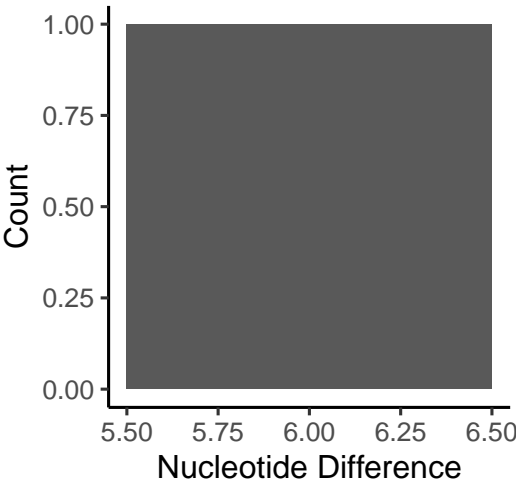
IGHV3-66*03

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
1 unique J



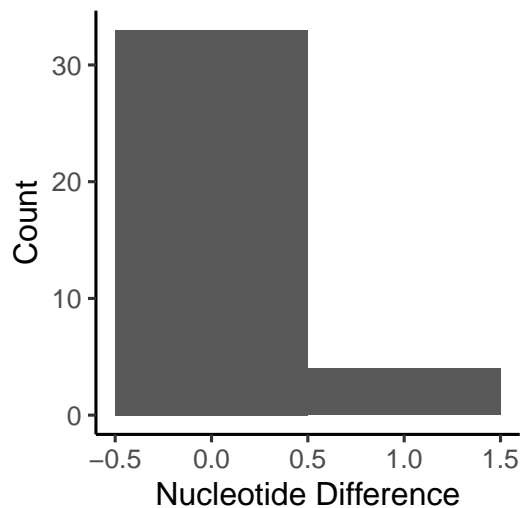
IGHV3-71*03

1 sequences assigned
No exact matches.



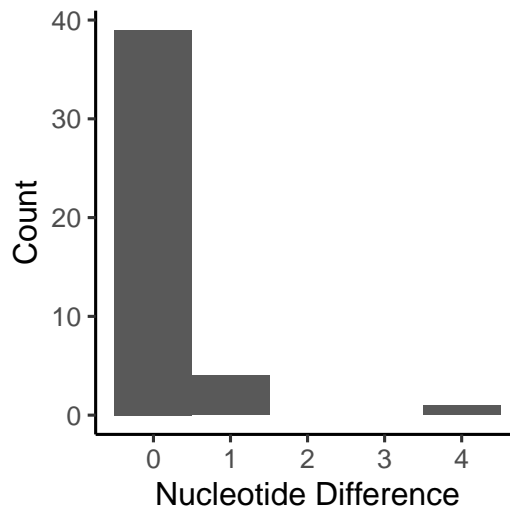
IGHV3-72*01

37 sequences assigned
33 (89.2%) exact matches, in which:
32 unique CDR3
5 unique J



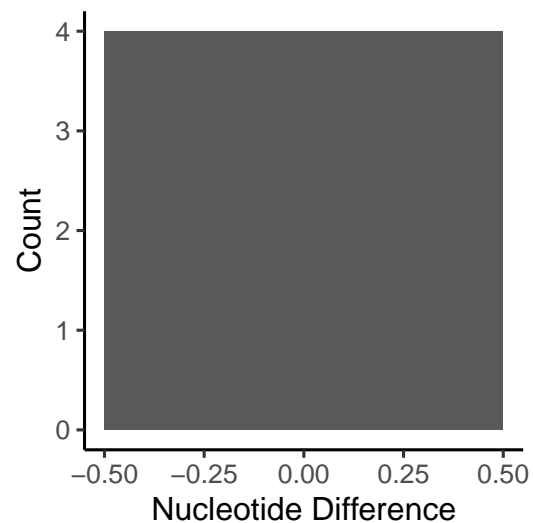
IGHV3-43D*04

44 sequences assigned
39 (88.6%) exact matches, in which:
39 unique CDR3
4 unique J



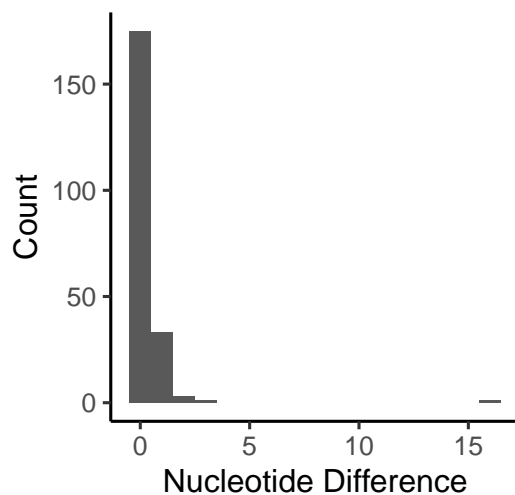
IGHV4-28*01

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



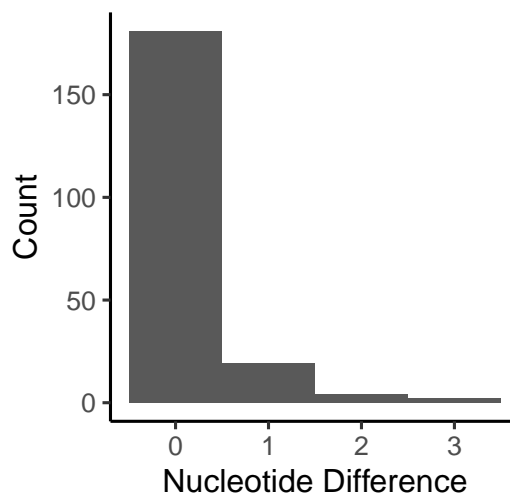
IGHV3-73*02

213 sequences assigned
175 (82.2%) exact matches, in which:
174 unique CDR3
6 unique J



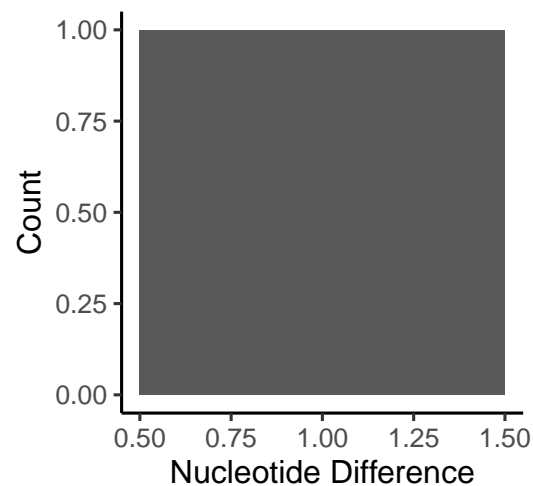
IGHV3-64D*08

206 sequences assigned
181 (87.9%) exact matches, in which:
176 unique CDR3
6 unique J



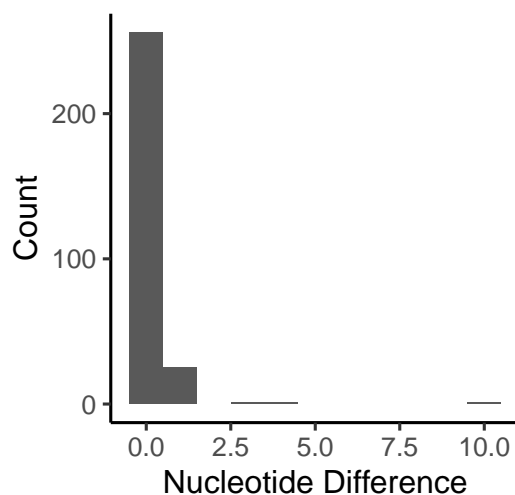
IGHV4-28*02

1 sequences assigned
No exact matches.



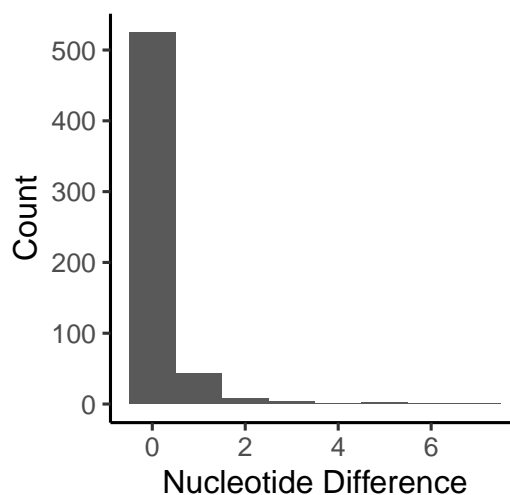
IGHV3-74*01

284 sequences assigned
256 (90.1%) exact matches, in which:
254 unique CDR3
6 unique J



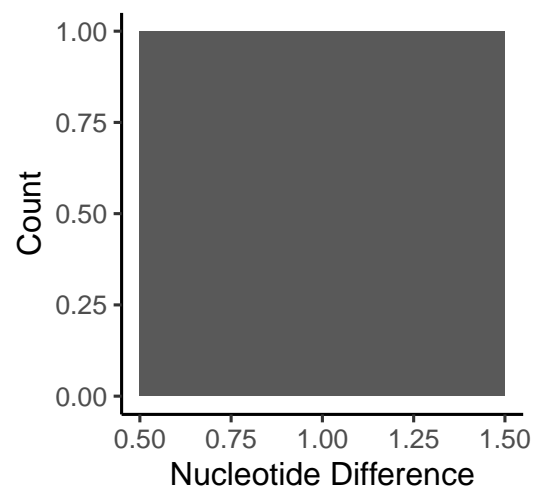
IGHV4-4*07

588 sequences assigned
525 (89.3%) exact matches, in which:
519 unique CDR3
6 unique J



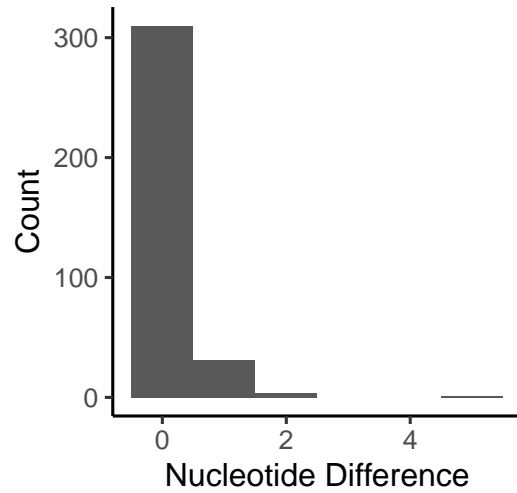
IGHV4-28*04

1 sequences assigned
No exact matches.



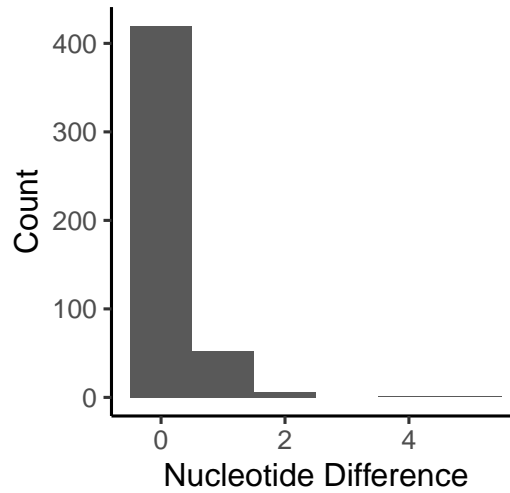
IGHV4-30-4*01

346 sequences assigned
310 (89.6%) exact matches, in which:
304 unique CDR3
6 unique J



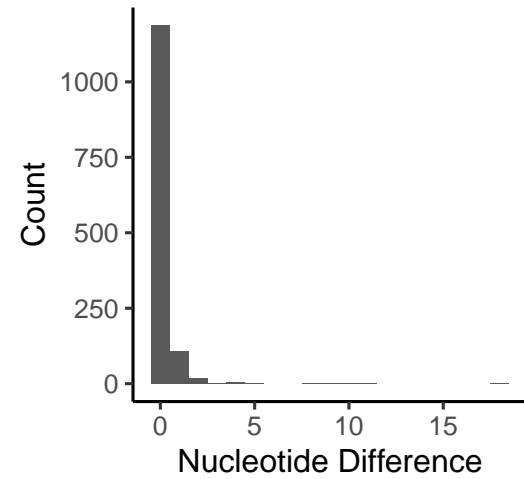
IGHV4-31*03

480 sequences assigned
420 (87.5%) exact matches, in which:
415 unique CDR3
6 unique J



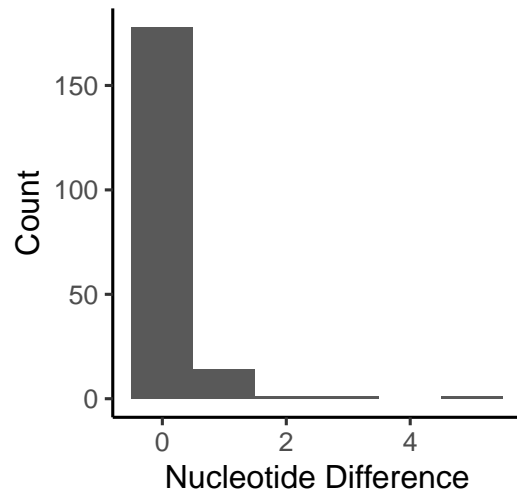
IGHV4-39*01

1327 sequences assigned
1187 (89.4%) exact matches, in which:
1166 unique CDR3
6 unique J



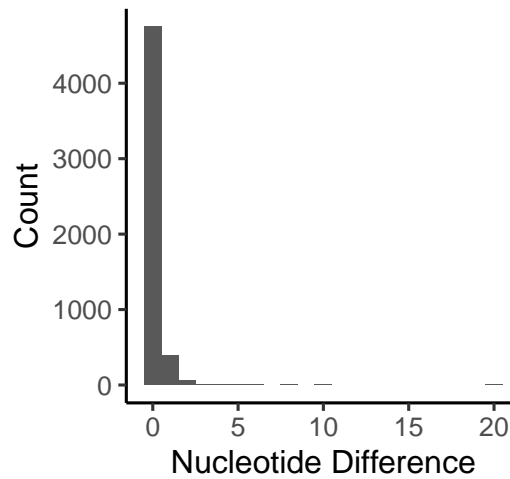
IGHV4-30-2*01

195 sequences assigned
178 (91.3%) exact matches, in which:
169 unique CDR3
6 unique J



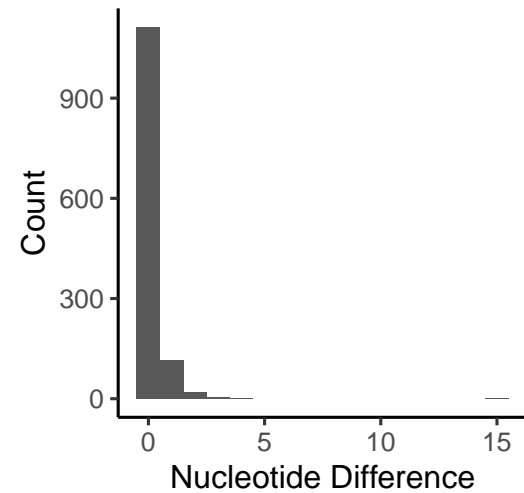
IGHV4-34*01

5235 sequences assigned
4749 (90.7%) exact matches, in which:
4624 unique CDR3
6 unique J



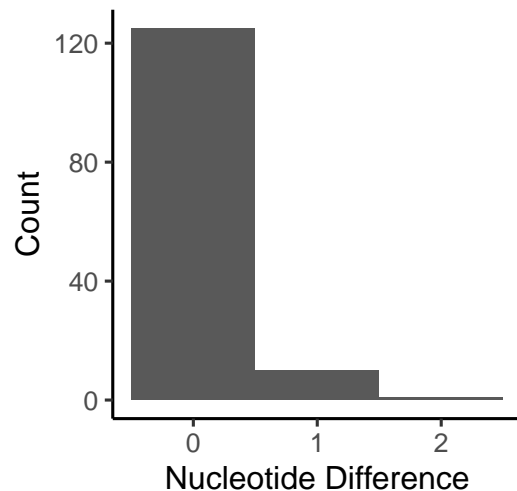
IGHV4-59*01

1253 sequences assigned
1113 (88.8%) exact matches, in which:
1105 unique CDR3
6 unique J



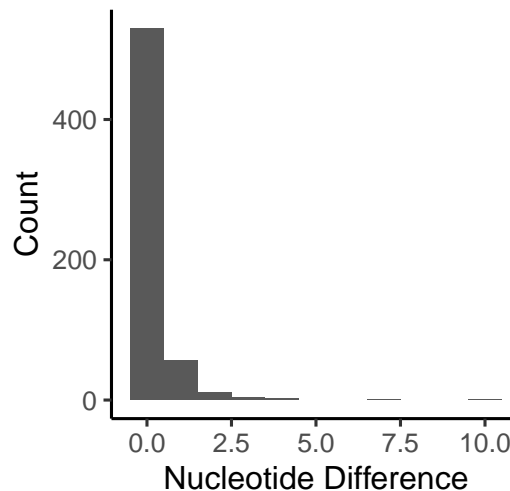
IGHV4-31*01

136 sequences assigned
125 (91.9%) exact matches, in which:
124 unique CDR3
6 unique J



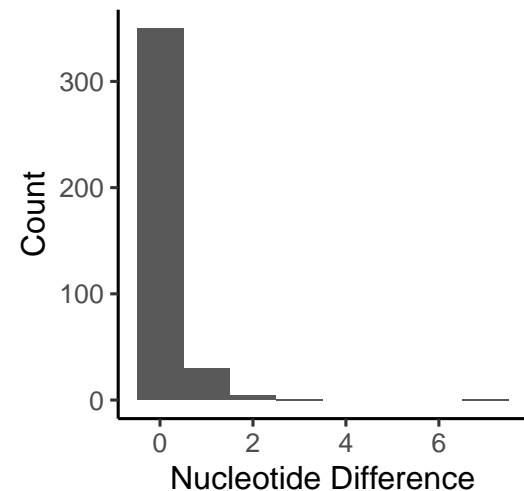
IGHV4-38-2*02_A70G

606 sequences assigned
530 (87.5%) exact matches, in which:
514 unique CDR3
6 unique J



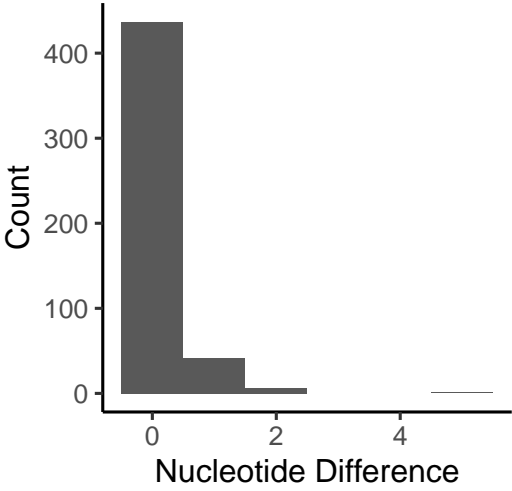
IGHV4-61*01

387 sequences assigned
350 (90.4%) exact matches, in which:
343 unique CDR3
6 unique J



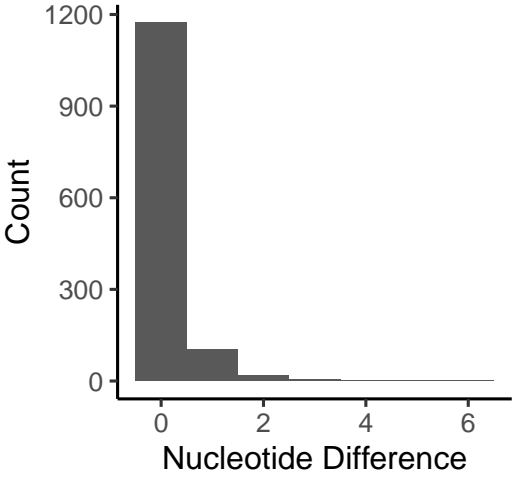
IGHV5-10-1*03

486 sequences assigned
437 (89.9%) exact matches, in which:
426 unique CDR3
6 unique J



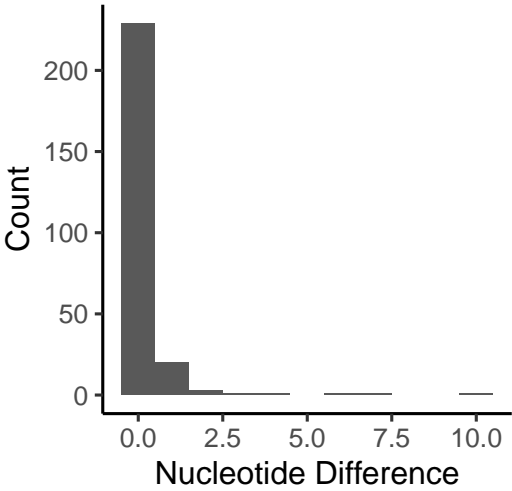
IGHV5-51*01

1305 sequences assigned
1173 (89.9%) exact matches, in which:
1155 unique CDR3
6 unique J

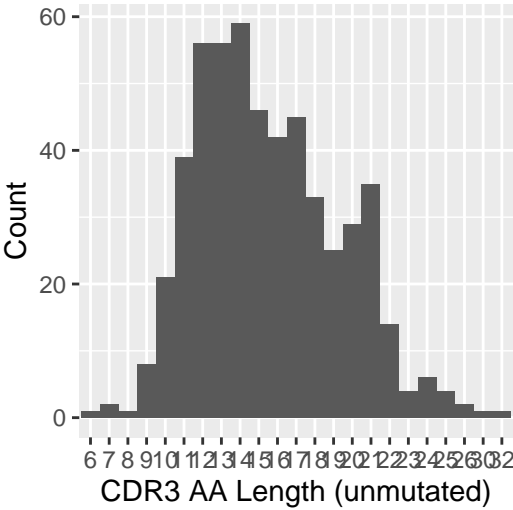


IGHV6-1*01

257 sequences assigned
229 (89.1%) exact matches, in which:
221 unique CDR3
5 unique J



IGHV4-38-2*02_A70G





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