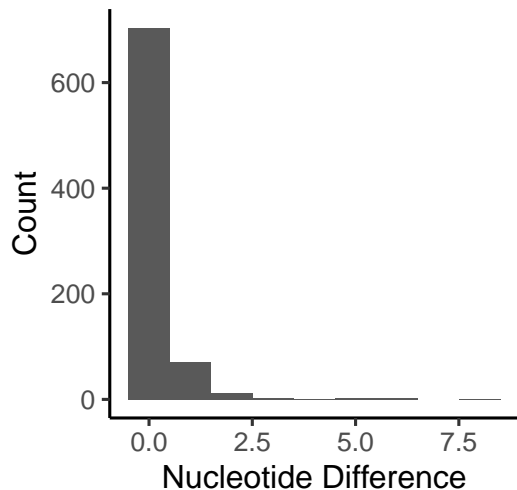


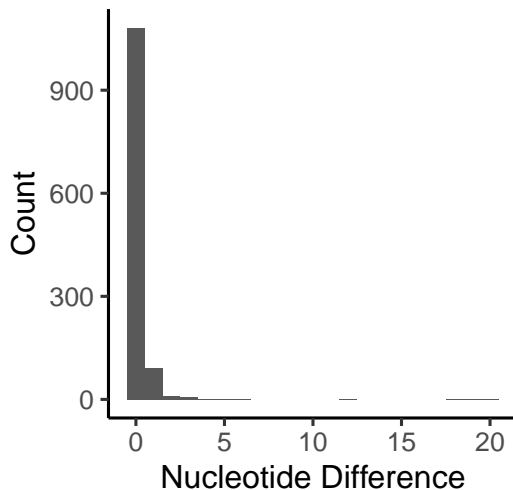
IGHV1-2*02

796 sequences assigned
704 (88.4%) exact matches, in which:
667 unique CDR3
6 unique J



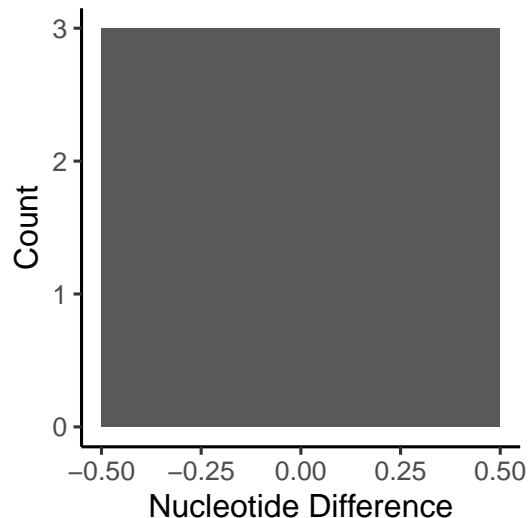
IGHV1-8*01

1200 sequences assigned
1082 (90.2%) exact matches, in which:
1038 unique CDR3
7 unique J



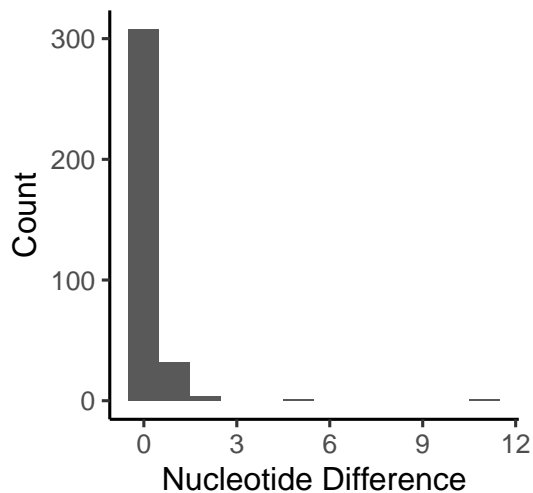
IGHV1-45*02

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



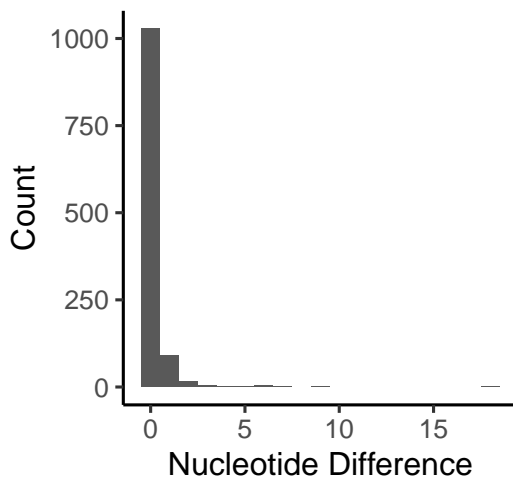
IGHV1-2*04

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



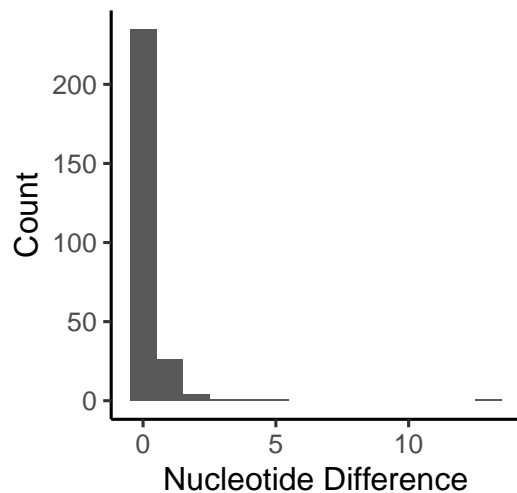
IGHV1-18*01

1150 sequences assigned
1028 (89.4%) exact matches, in which:
998 unique CDR3
7 unique J



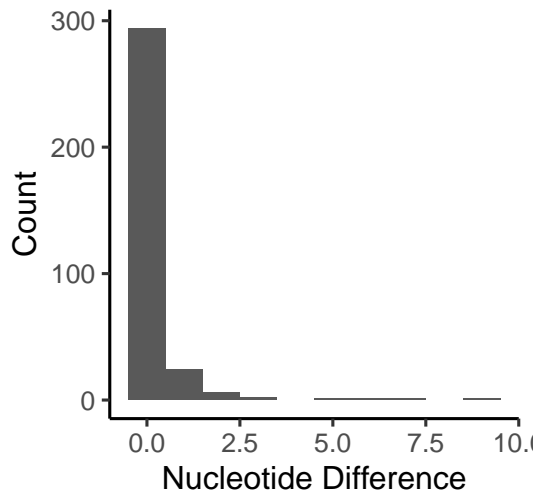
IGHV1-46*01

274 sequences assigned
235 (85.8%) exact matches, in which:
228 unique CDR3
7 unique J



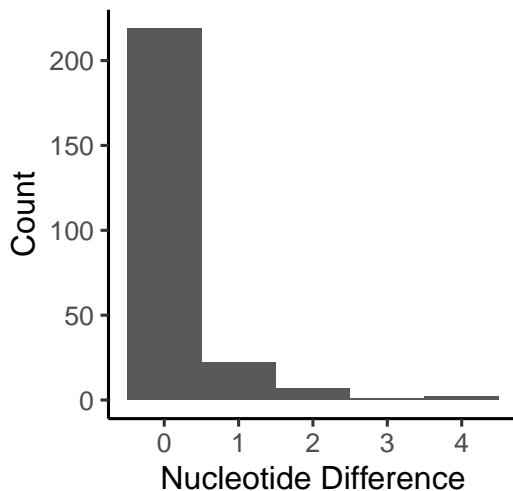
IGHV1-3*01

333 sequences assigned
294 (88.3%) exact matches, in which:
284 unique CDR3
6 unique J



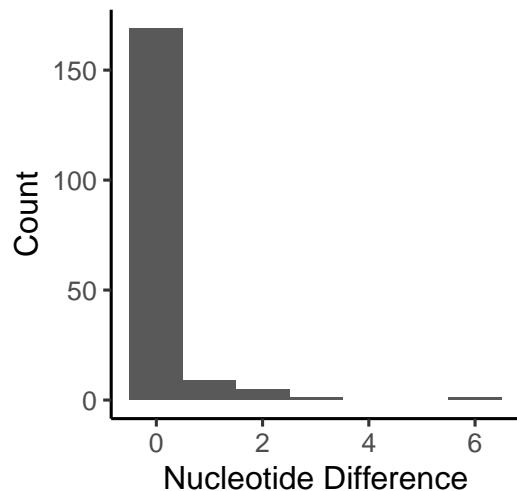
IGHV1-24*01

251 sequences assigned
219 (87.3%) exact matches, in which:
213 unique CDR3
7 unique J



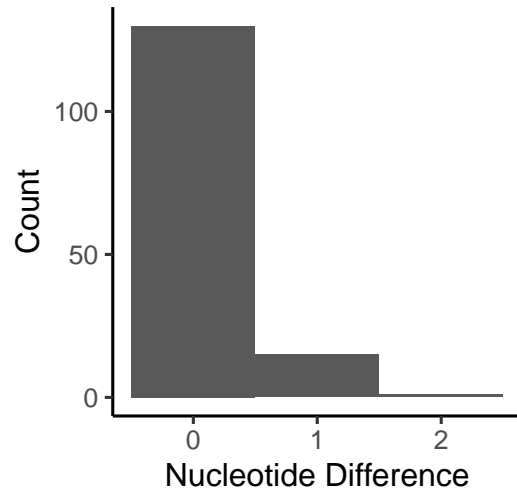
IGHV1-46*03

185 sequences assigned
169 (91.4%) exact matches, in which:
163 unique CDR3
6 unique J



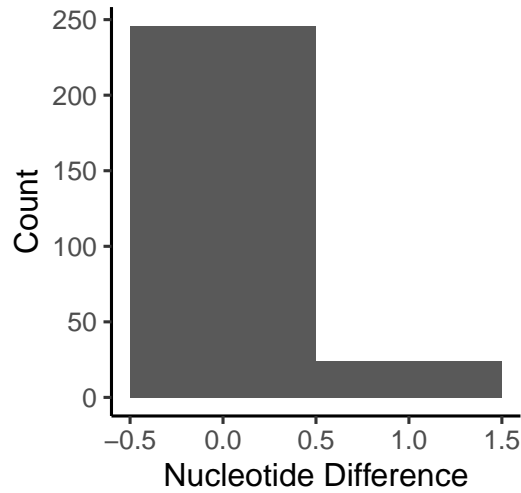
IGHV1–58*01

146 sequences assigned
130 (89%) exact matches, in which:
124 unique CDR3
7 unique J



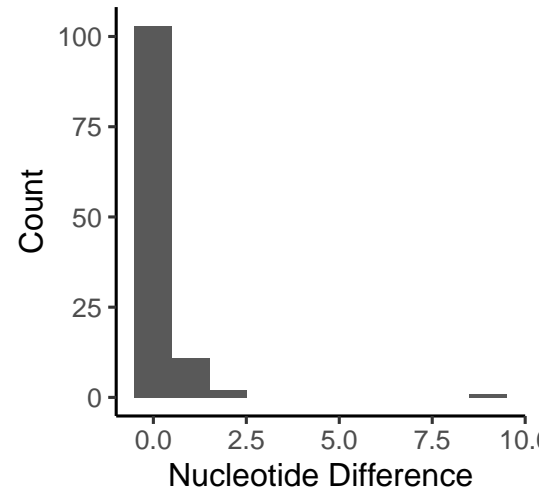
IGHV2–5*01

270 sequences assigned
246 (91.1%) exact matches, in which:
239 unique CDR3
6 unique J



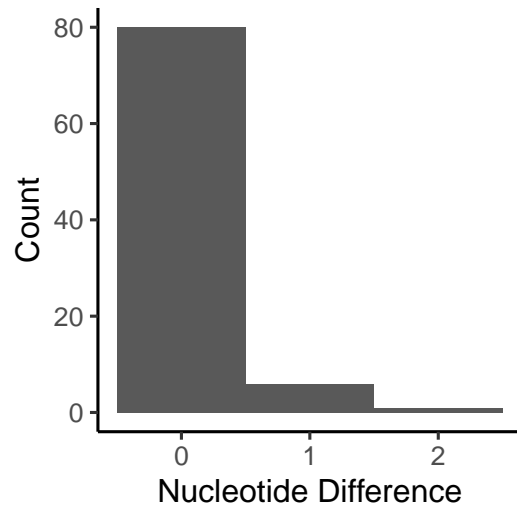
IGHV2–70*01

117 sequences assigned
103 (88%) exact matches, in which:
101 unique CDR3
6 unique J



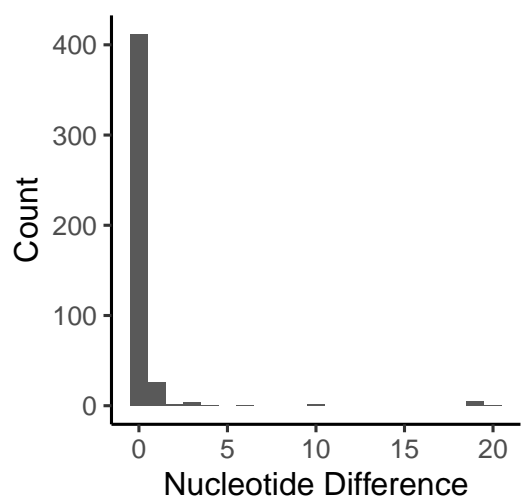
IGHV1–69–2*01

87 sequences assigned
80 (92%) exact matches, in which:
76 unique CDR3
6 unique J



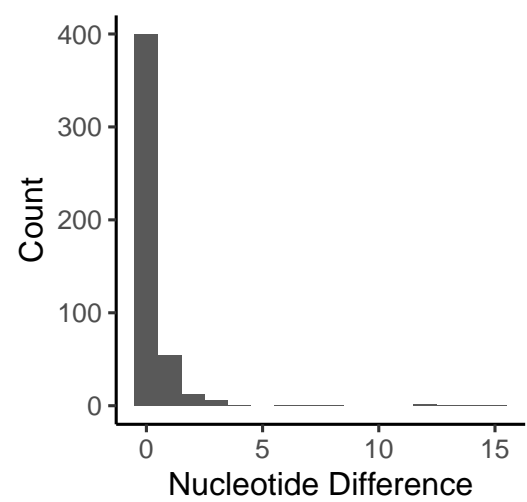
IGHV2–5*02

455 sequences assigned
412 (90.5%) exact matches, in which:
400 unique CDR3
6 unique J



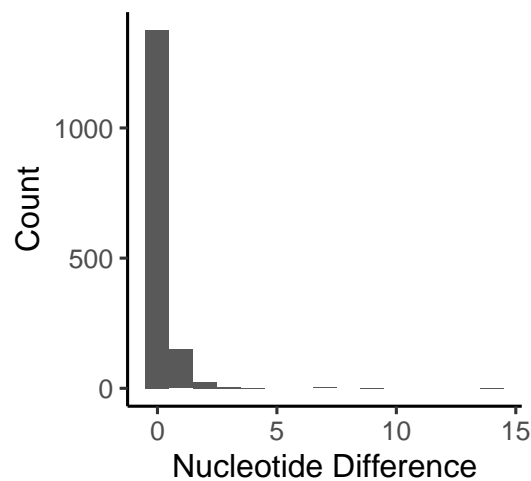
IGHV3–7*01

482 sequences assigned
400 (83%) exact matches, in which:
395 unique CDR3
7 unique J



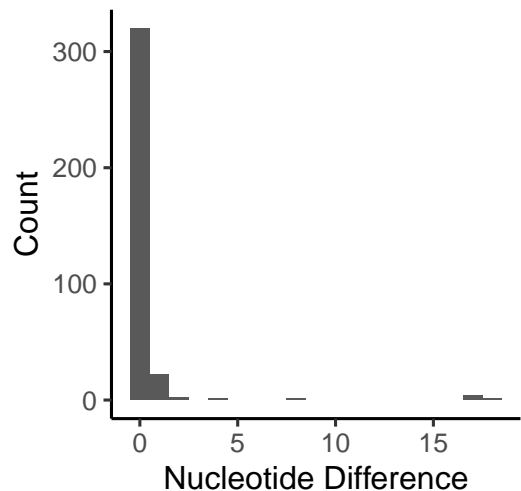
IGHV1–69*06

1563 sequences assigned
1376 (88%) exact matches, in which:
1318 unique CDR3
7 unique J



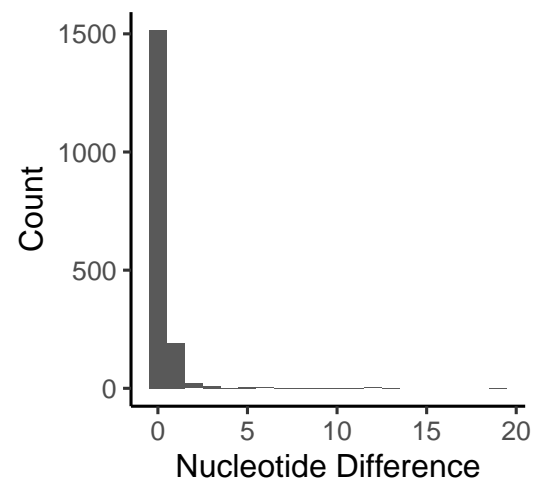
IGHV2–26*01

351 sequences assigned
320 (91.2%) exact matches, in which:
312 unique CDR3
7 unique J



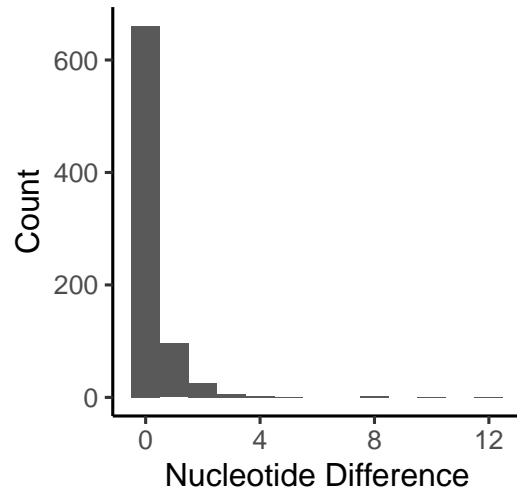
IGHV3–9*01

1765 sequences assigned
1516 (85.9%) exact matches, in which:
1460 unique CDR3
7 unique J



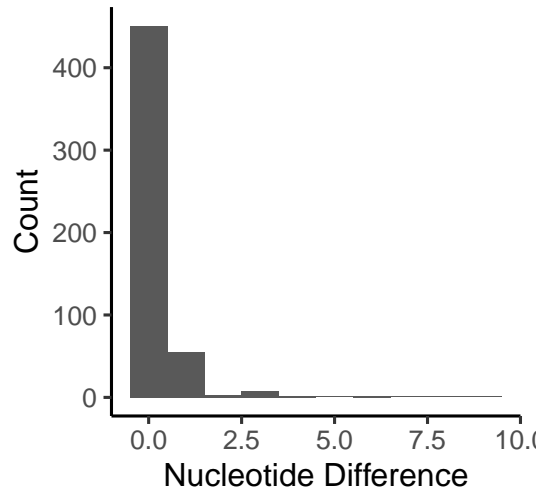
IGHV3–11*01

798 sequences assigned
661 (82.8%) exact matches, in which:
649 unique CDR3
7 unique J



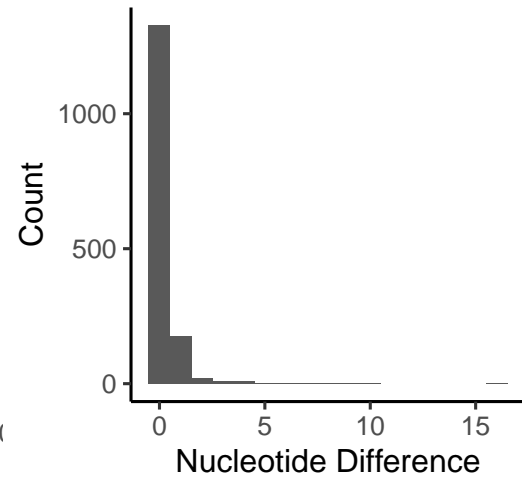
IGHV3–15*07

525 sequences assigned
451 (85.9%) exact matches, in which:
436 unique CDR3
6 unique J



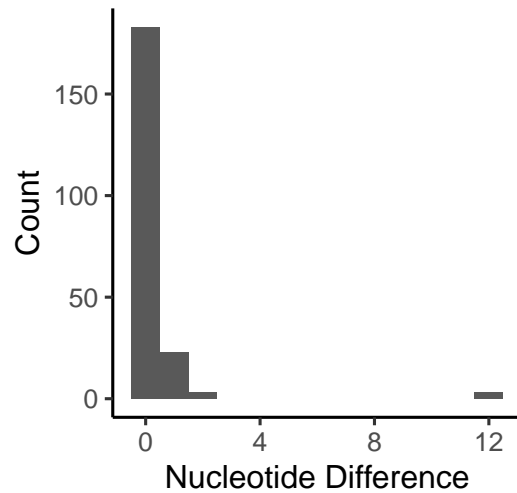
IGHV3–21*01

1556 sequences assigned
1327 (85.3%) exact matches, in which:
1286 unique CDR3
7 unique J



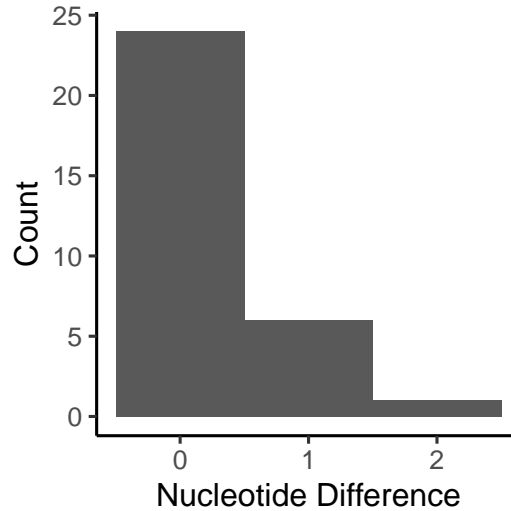
IGHV3–13*01

212 sequences assigned
183 (86.3%) exact matches, in which:
177 unique CDR3
6 unique J



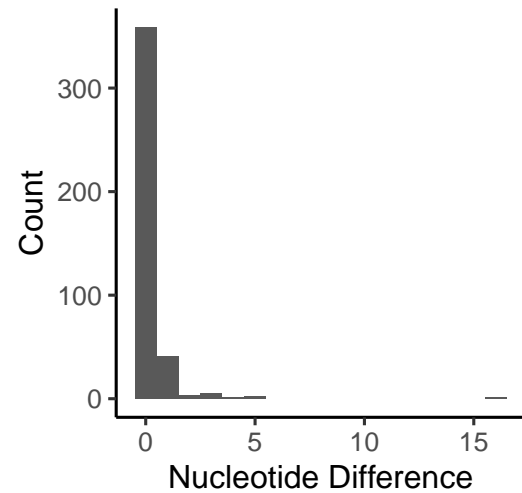
IGHV3–20*01

31 sequences assigned
24 (77.4%) exact matches, in which:
24 unique CDR3
5 unique J



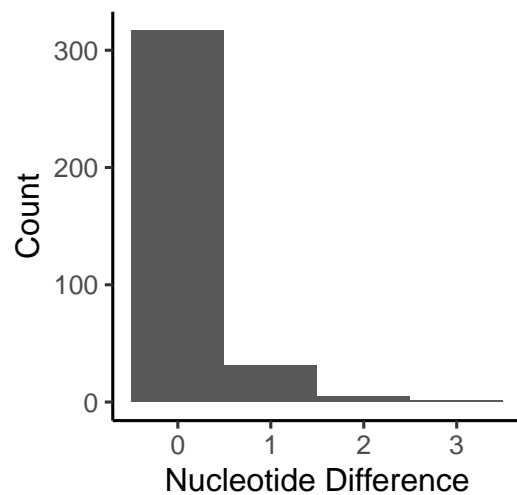
IGHV3–30*01

412 sequences assigned
359 (87.1%) exact matches, in which:
352 unique CDR3
7 unique J



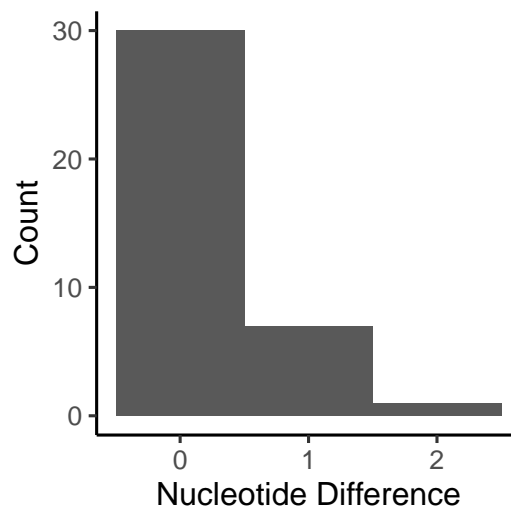
IGHV3–15*01

354 sequences assigned
317 (89.5%) exact matches, in which:
313 unique CDR3
6 unique J



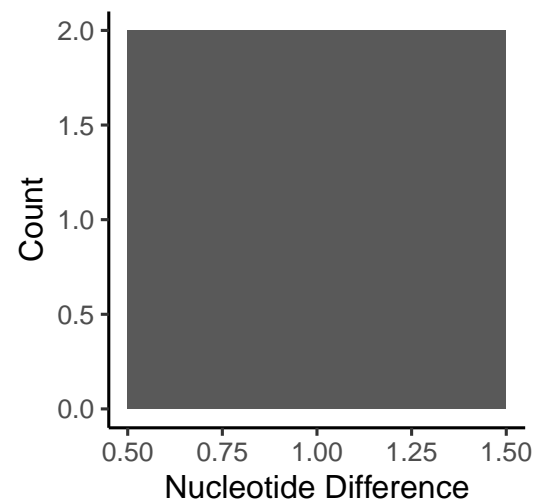
IGHV3–20*04

38 sequences assigned
30 (78.9%) exact matches, in which:
30 unique CDR3
3 unique J



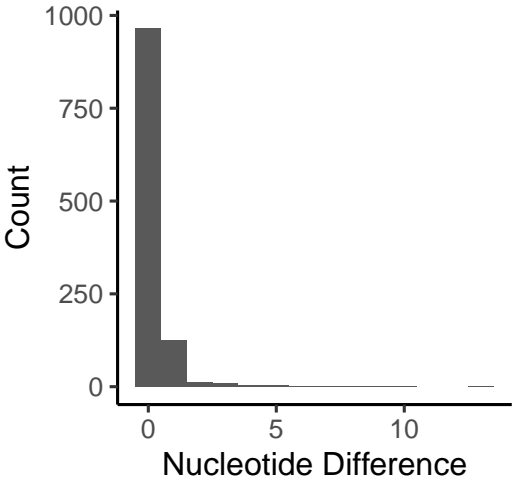
IGHV3–30–3*03

2 sequences assigned
No exact matches.



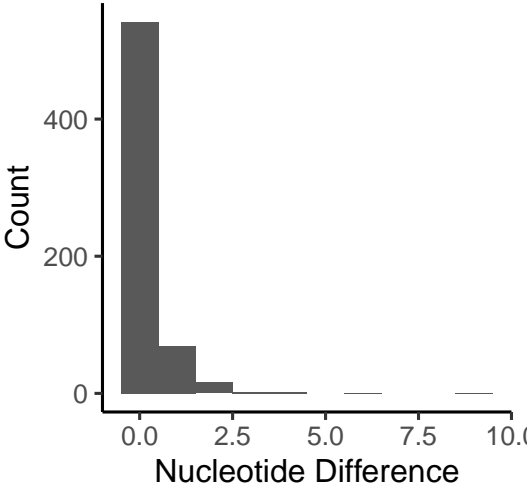
IGHV3-33*01

1130 sequences assigned
965 (85.4%) exact matches, in which:
939 unique CDR3
7 unique J



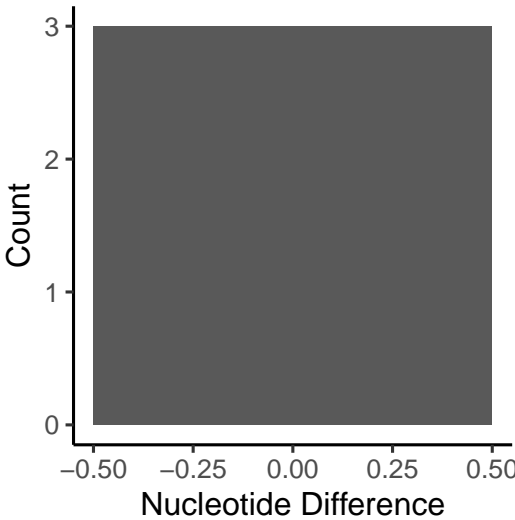
IGHV3-48*03

646 sequences assigned
542 (83.9%) exact matches, in which:
532 unique CDR3
6 unique J



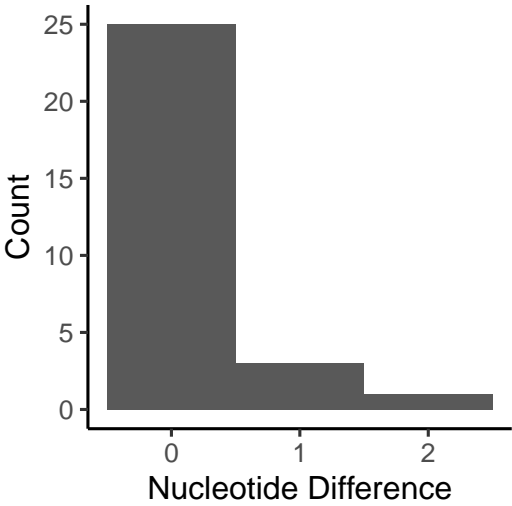
IGHV3-52*02

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



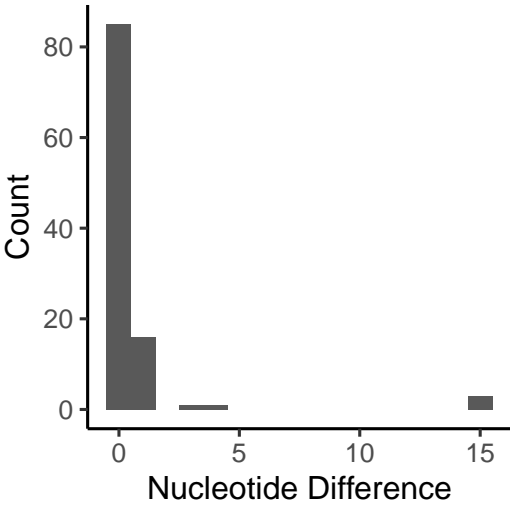
IGHV3-43*01

29 sequences assigned
25 (86.2%) exact matches, in which:
25 unique CDR3
5 unique J



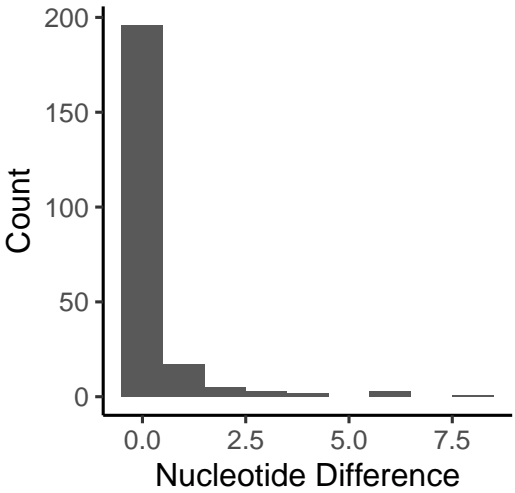
IGHV3-49*03

106 sequences assigned
85 (80.2%) exact matches, in which:
85 unique CDR3
6 unique J



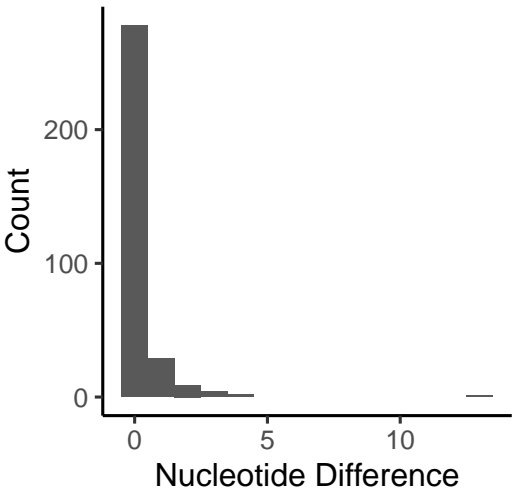
IGHV3-53*02

227 sequences assigned
196 (86.3%) exact matches, in which:
192 unique CDR3
7 unique J



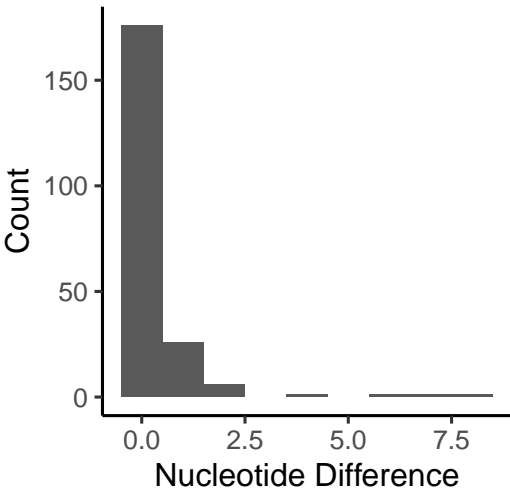
IGHV3-48*01

324 sequences assigned
278 (85.8%) exact matches, in which:
272 unique CDR3
6 unique J



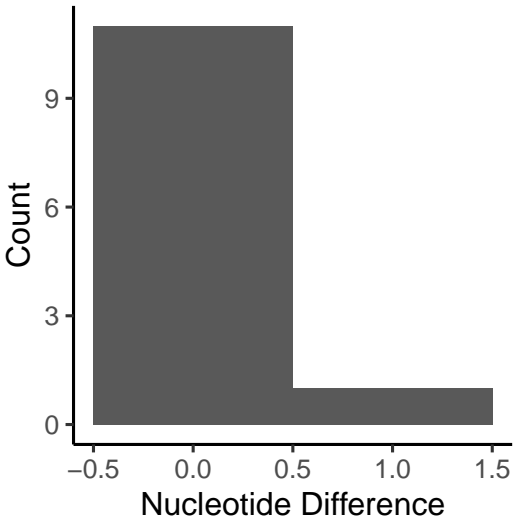
IGHV3-49*04

212 sequences assigned
176 (83%) exact matches, in which:
168 unique CDR3
7 unique J



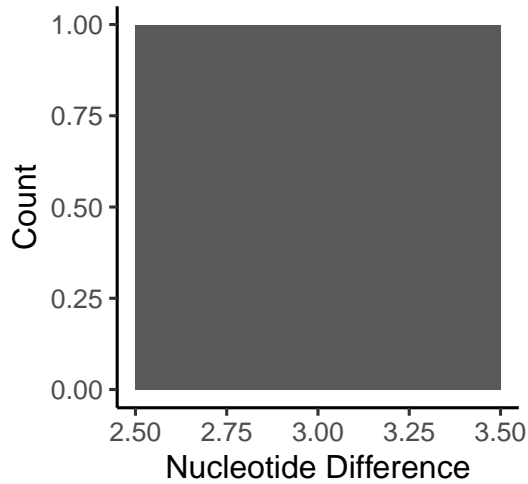
IGHV3-64*02

12 sequences assigned
11 (91.7%) exact matches, in which:
10 unique CDR3
3 unique J



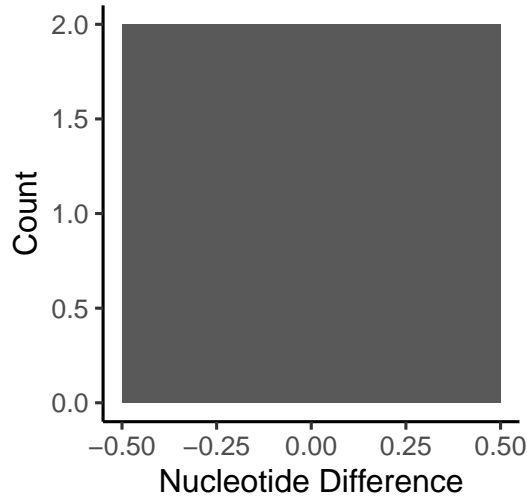
IGHV3-64*04

1 sequences assigned
No exact matches.



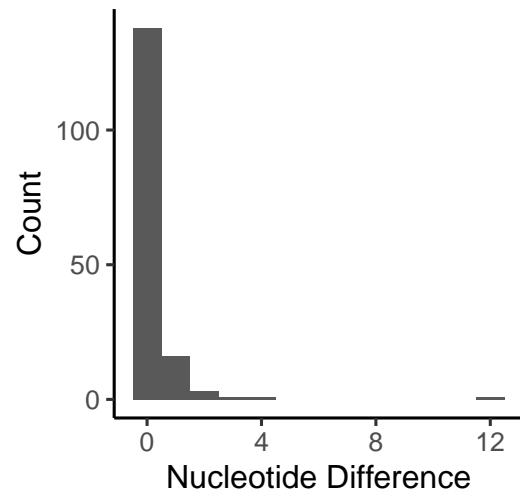
IGHV3-69-1*01

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



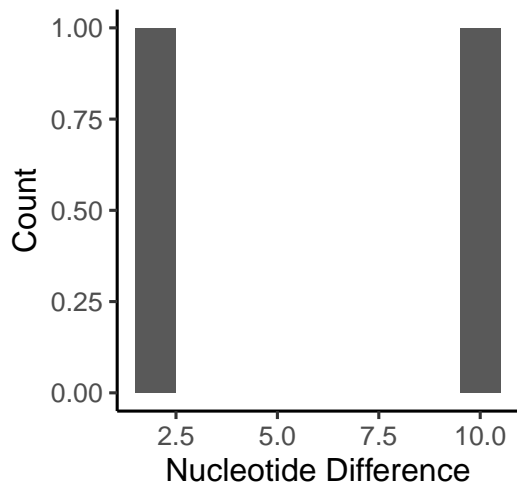
IGHV3-73*02

160 sequences assigned
138 (86.2%) exact matches, in which:
131 unique CDR3
7 unique J



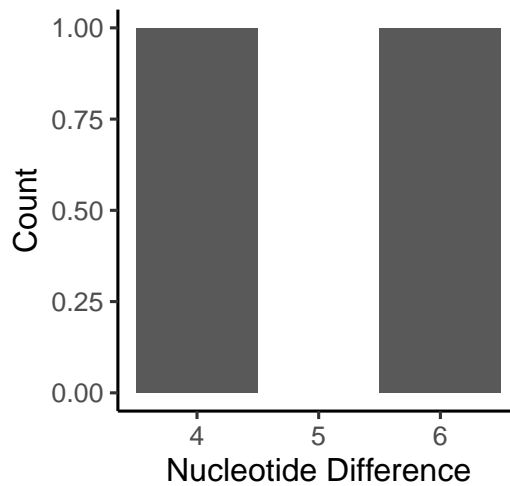
IGHV3-66*01

2 sequences assigned
No exact matches.



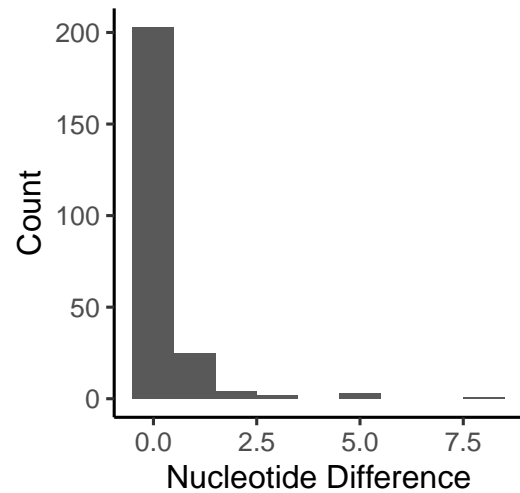
IGHV3-69-1*02

2 sequences assigned
No exact matches.



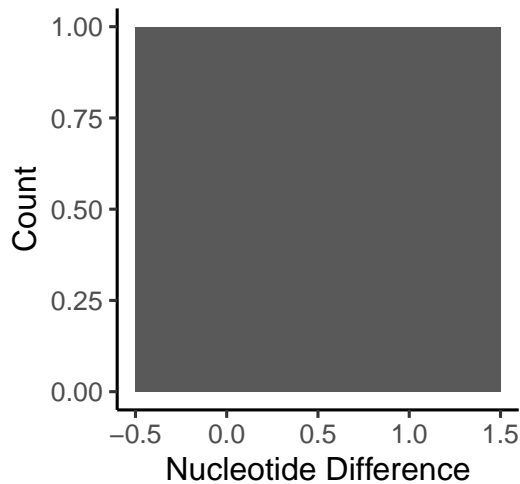
IGHV3-74*01

238 sequences assigned
203 (85.3%) exact matches, in which:
199 unique CDR3
7 unique J



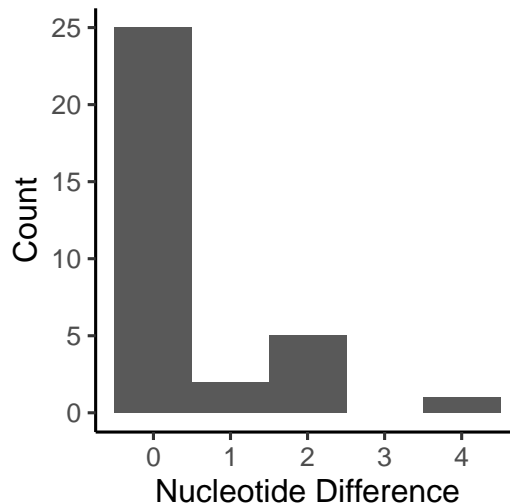
IGHV3-66*04

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



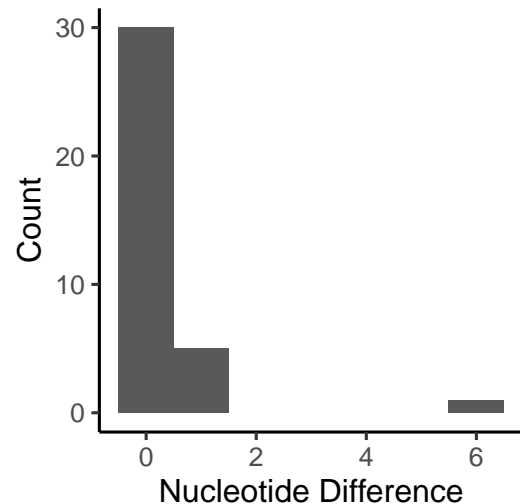
IGHV3-72*01

33 sequences assigned
25 (75.8%) exact matches, in which:
25 unique CDR3
4 unique J



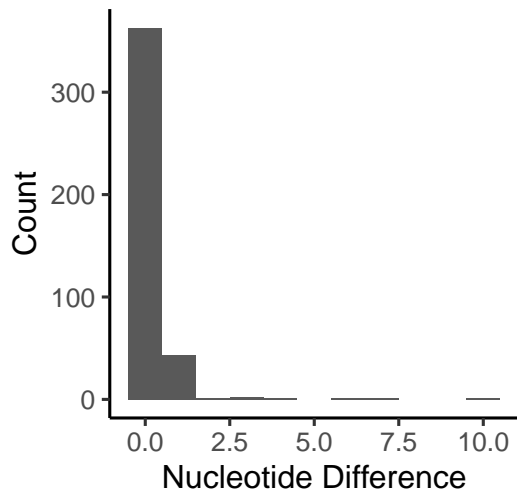
IGHV3-43D*04

36 sequences assigned
30 (83.3%) exact matches, in which:
29 unique CDR3
5 unique J



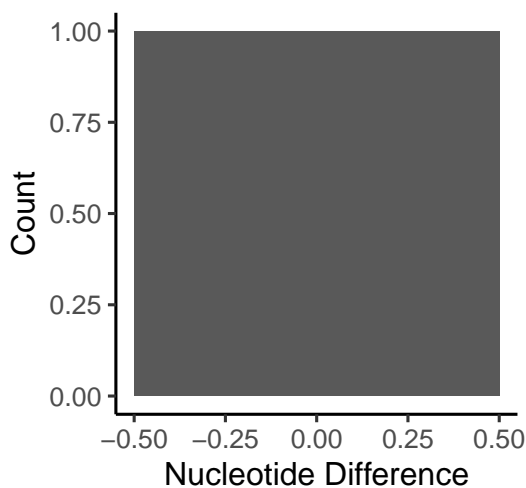
IGHV4-4*02

413 sequences assigned
363 (87.9%) exact matches, in which:
355 unique CDR3
6 unique J



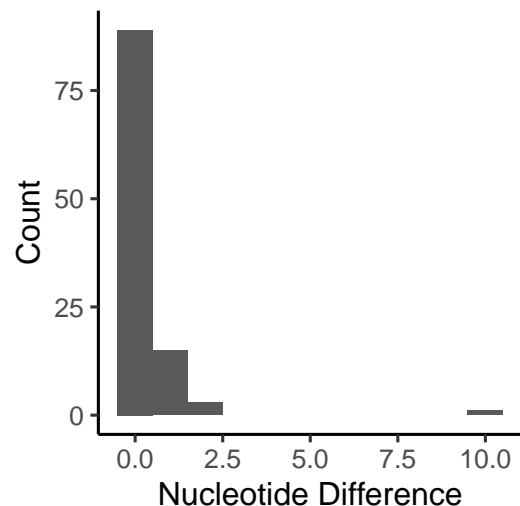
IGHV4-28*02

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



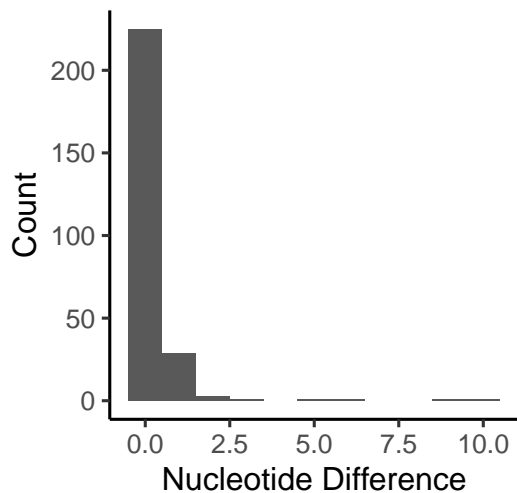
IGHV4-31*01

108 sequences assigned
89 (82.4%) exact matches, in which:
87 unique CDR3
6 unique J



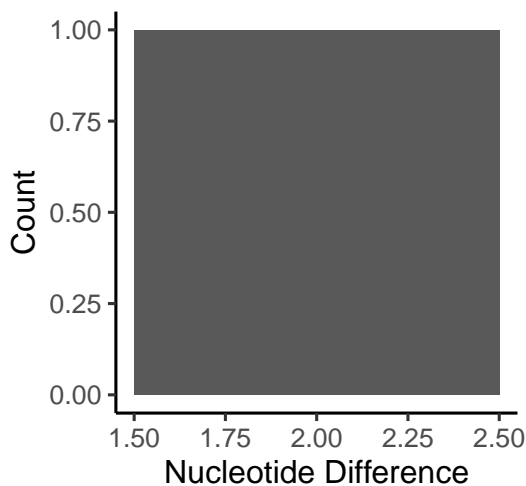
IGHV4-4*07

262 sequences assigned
225 (85.9%) exact matches, in which:
224 unique CDR3
5 unique J



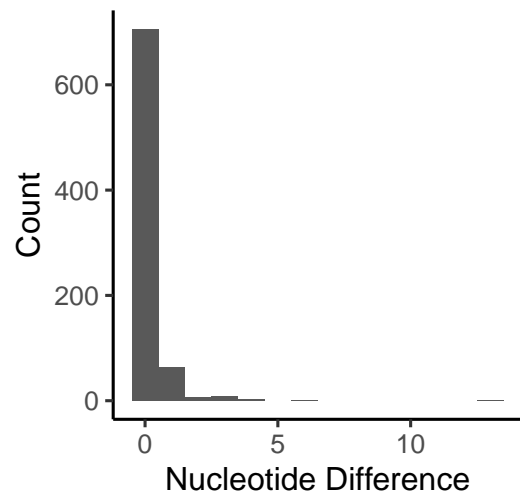
IGHV4-28*03

1 sequences assigned
No exact matches.



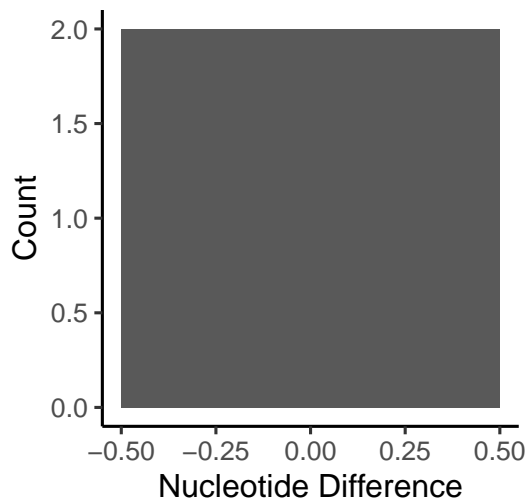
IGHV4-31*03

796 sequences assigned
706 (88.7%) exact matches, in which:
698 unique CDR3
6 unique J



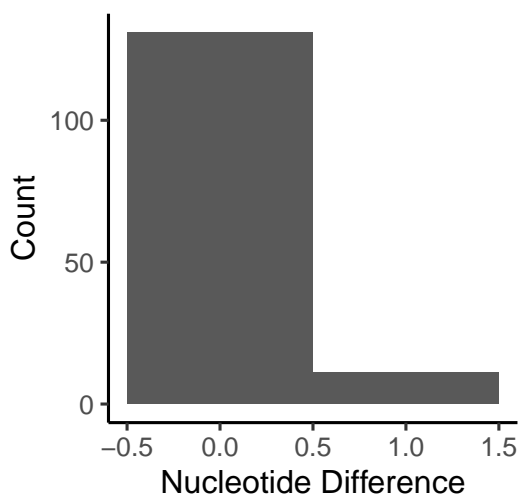
IGHV4-28*01

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



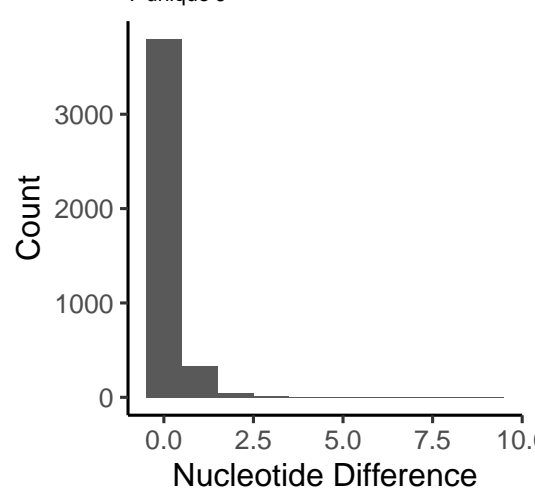
IGHV4-30-2*01

142 sequences assigned
131 (92.3%) exact matches, in which:
124 unique CDR3
5 unique J



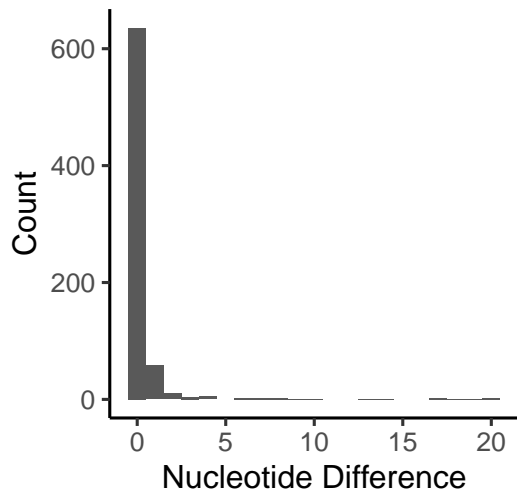
IGHV4-34*01

4213 sequences assigned
3797 (90.1%) exact matches, in which:
3612 unique CDR3
7 unique J



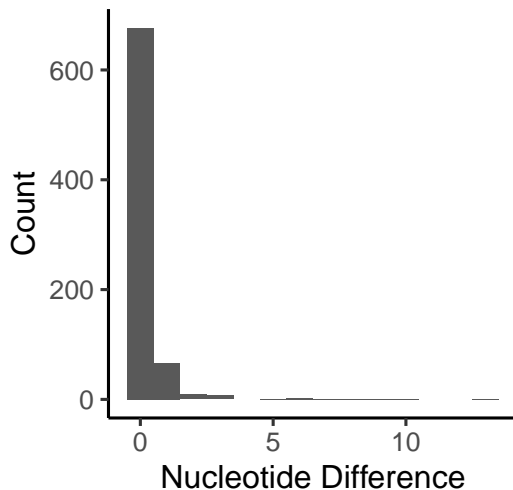
IGHV4–38–2*02_A70G

735 sequences assigned
636 (86.5%) exact matches, in which:
604 unique CDR3
7 unique J



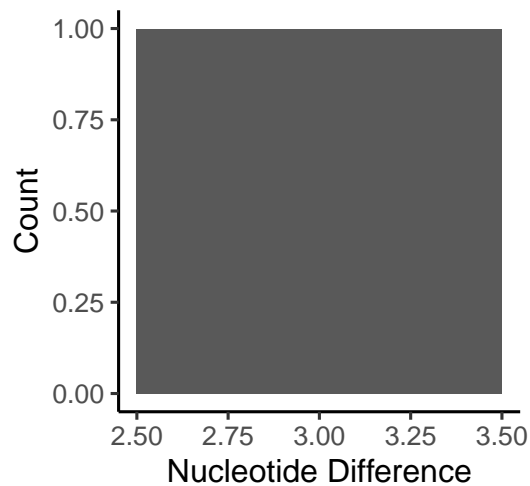
IGHV4–59*01

769 sequences assigned
677 (88%) exact matches, in which:
664 unique CDR3
7 unique J



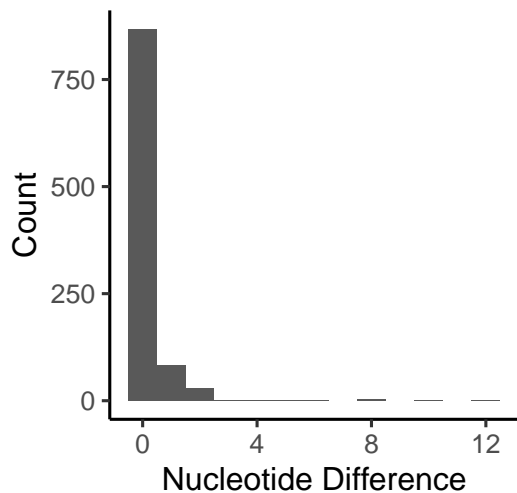
IGHV5–10–1*02

1 sequences assigned
No exact matches.



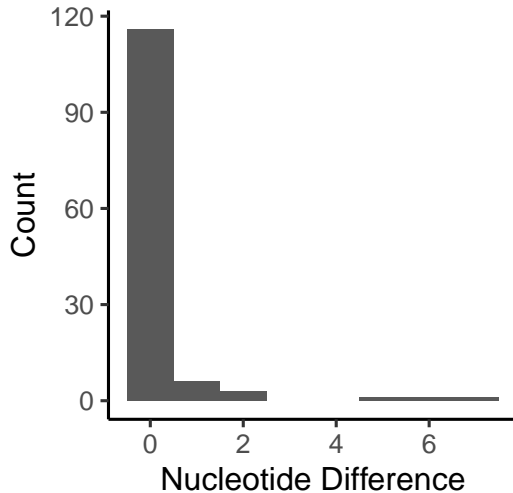
IGHV4–39*01

991 sequences assigned
868 (87.6%) exact matches, in which:
827 unique CDR3
7 unique J



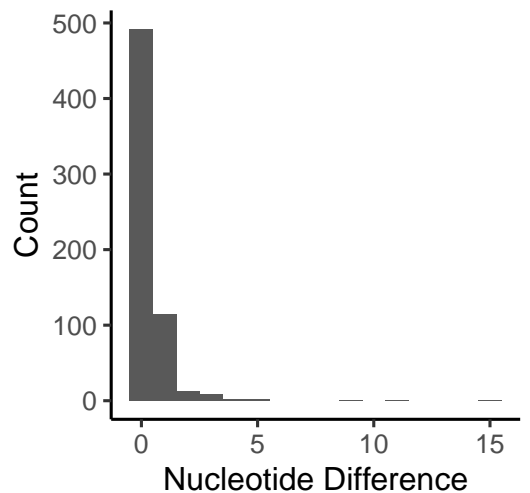
IGHV4–61*01

132 sequences assigned
116 (87.9%) exact matches, in which:
116 unique CDR3
7 unique J



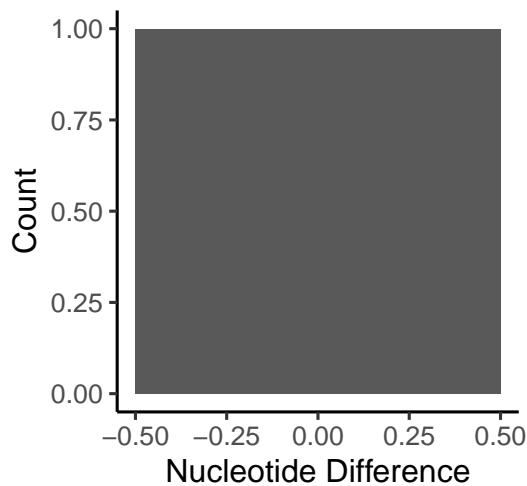
IGHV5–51*01

635 sequences assigned
492 (77.5%) exact matches, in which:
473 unique CDR3
7 unique J



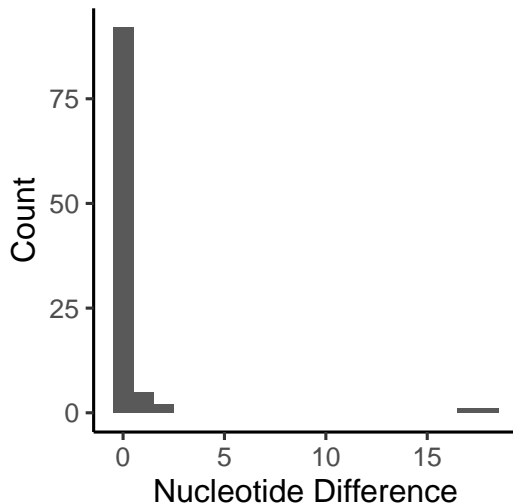
IGHV4–55*08

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



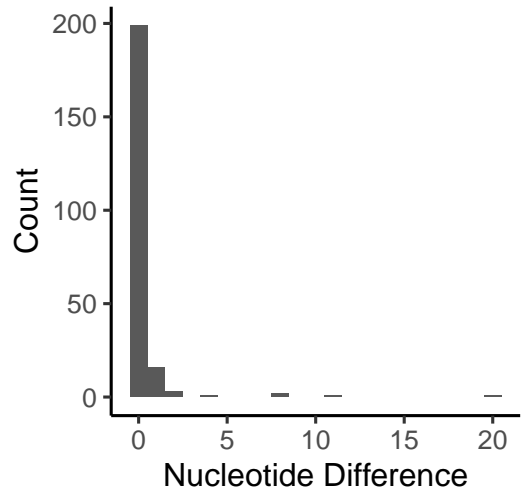
IGHV4–61*01_A41G

101 sequences assigned
92 (91.1%) exact matches, in which:
92 unique CDR3
6 unique J



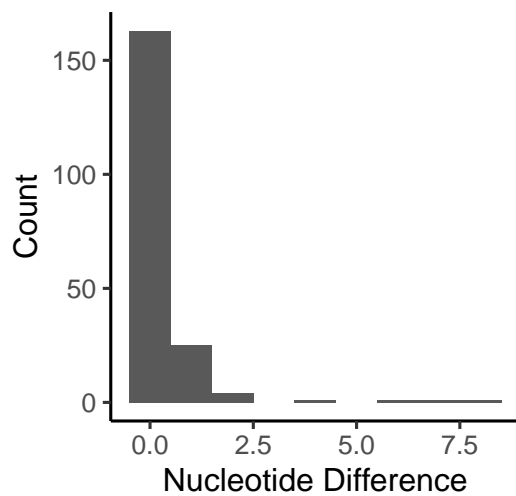
IGHV5–51*03

224 sequences assigned
199 (88.8%) exact matches, in which:
198 unique CDR3
6 unique J



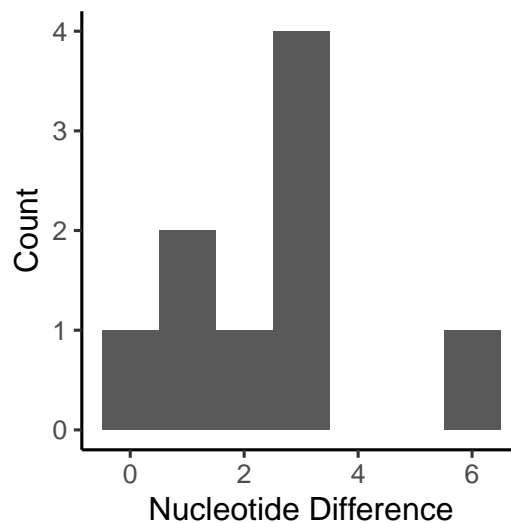
IGHV6-1*01

196 sequences assigned
163 (83.2%) exact matches, in which:
156 unique CDR3
7 unique J



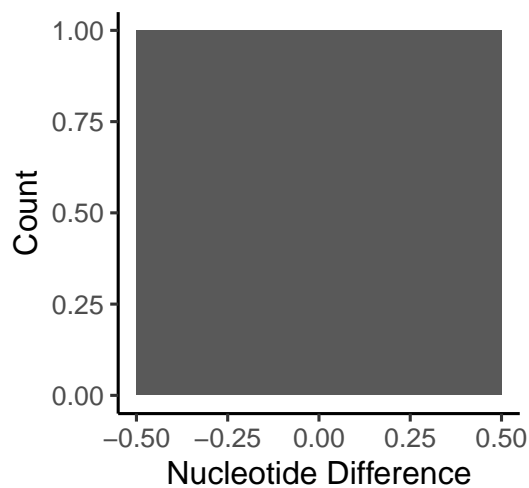
IGHV7-4-1*01

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



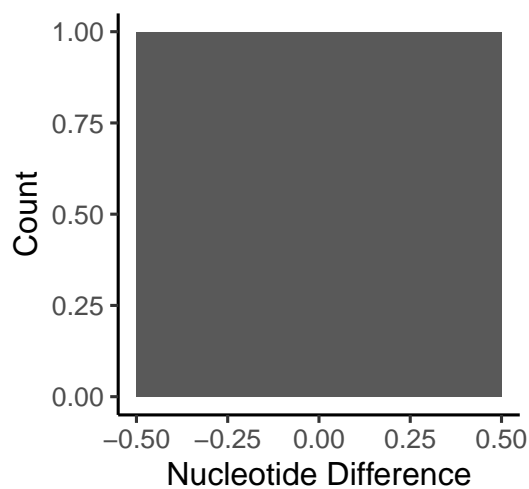
IGHV3/OR16-9*01

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

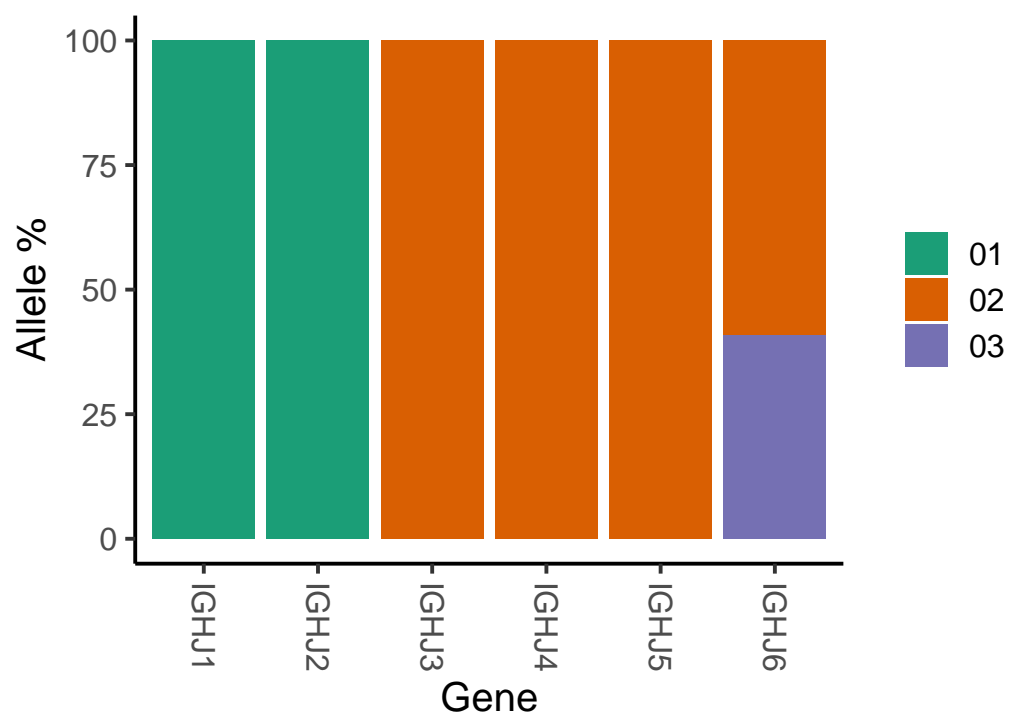


IGHV3/OR16-12*01

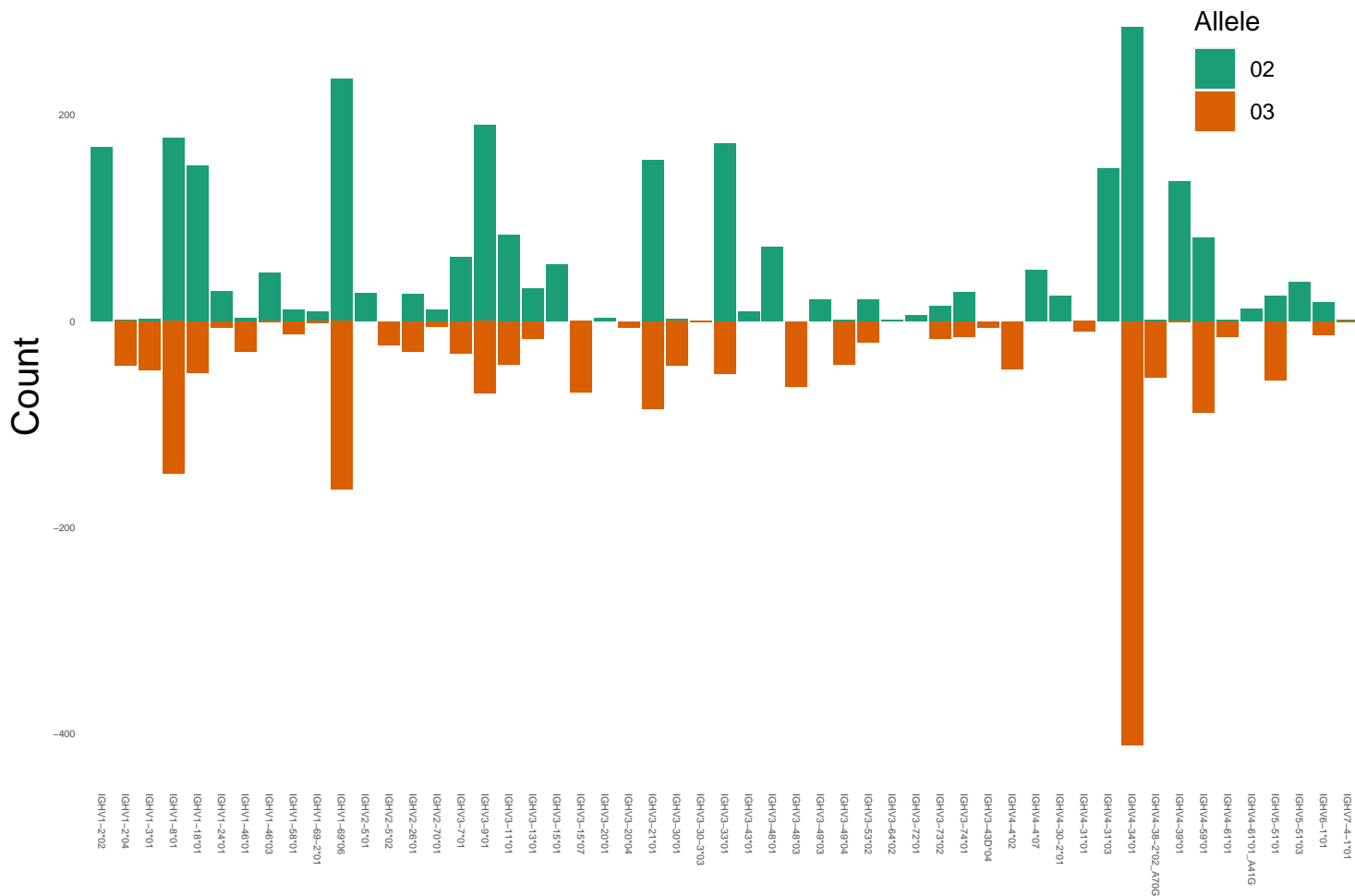
1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.