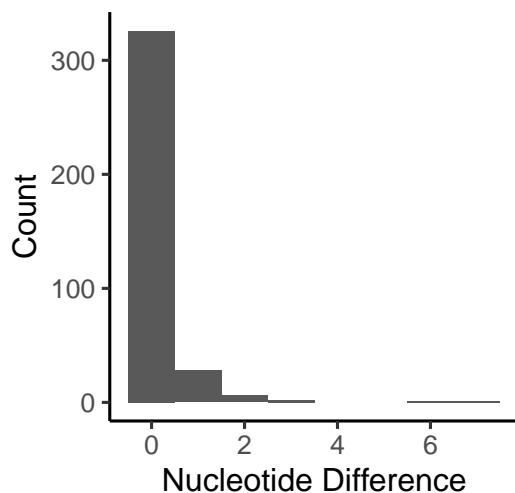


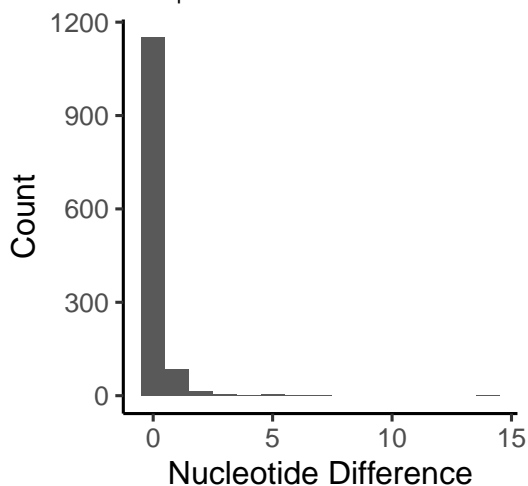
IGHV1-2*04

364 sequences assigned
326 (89.6%) exact matches, in which:
313 unique CDR3
7 unique J



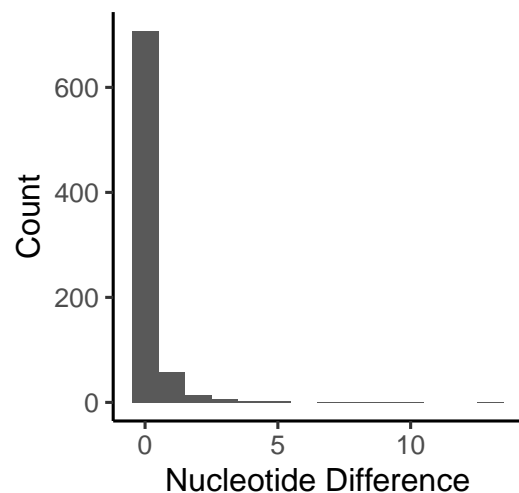
IGHV1-18*01

1268 sequences assigned
1151 (90.8%) exact matches, in which:
1123 unique CDR3
7 unique J



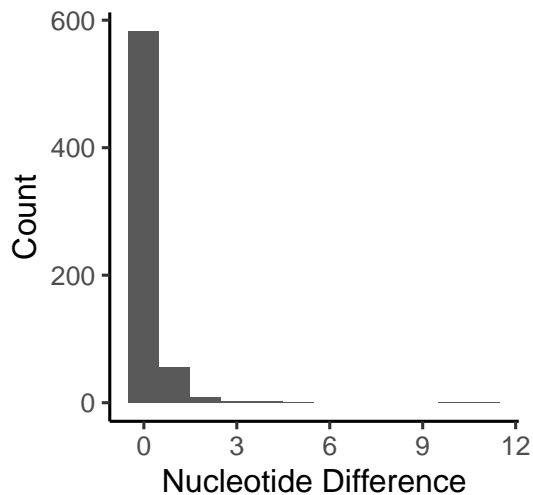
IGHV1-46*01

796 sequences assigned
708 (88.9%) exact matches, in which:
689 unique CDR3
7 unique J



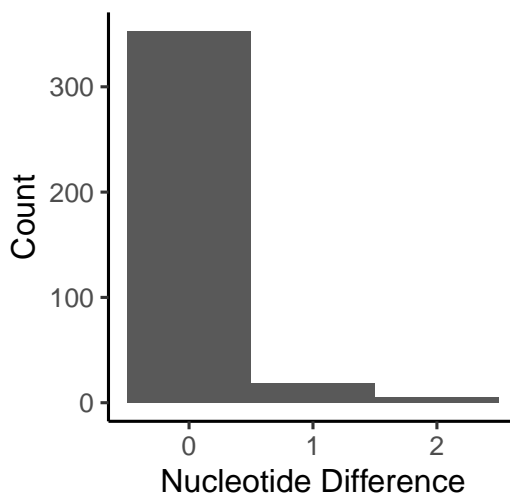
IGHV1-3*01

654 sequences assigned
583 (89.1%) exact matches, in which:
571 unique CDR3
7 unique J



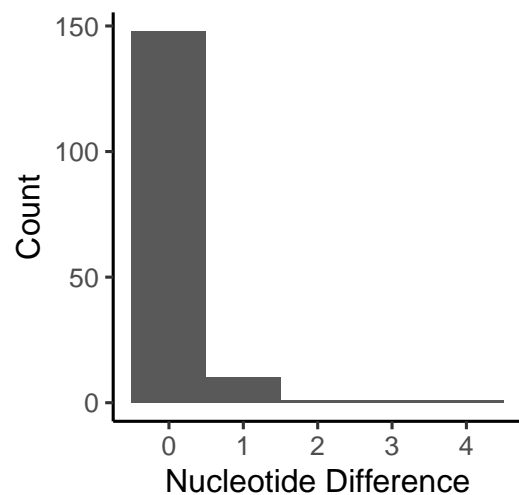
IGHV1-24*01

377 sequences assigned
353 (93.6%) exact matches, in which:
347 unique CDR3
7 unique J



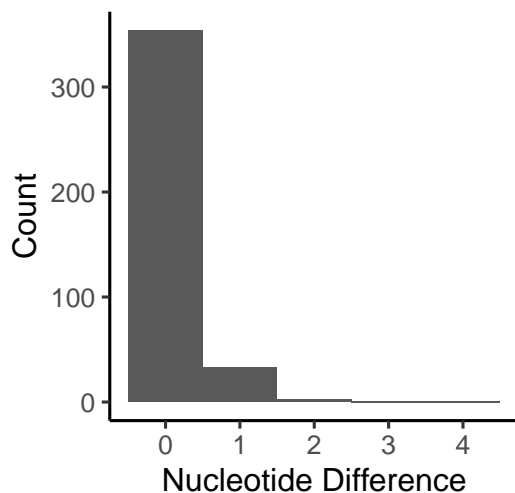
IGHV1-58*01

161 sequences assigned
148 (91.9%) exact matches, in which:
144 unique CDR3
7 unique J



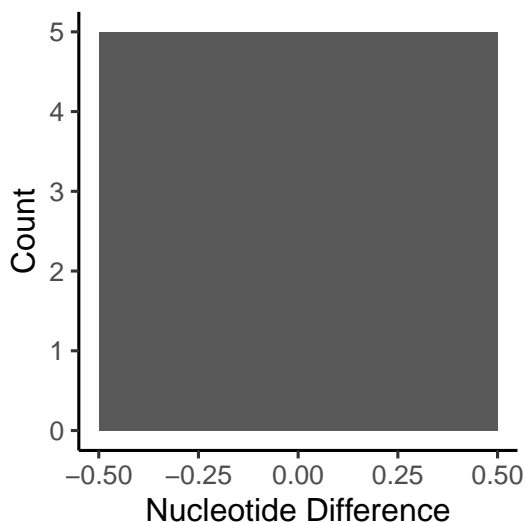
IGHV1-8*01

393 sequences assigned
354 (90.1%) exact matches, in which:
342 unique CDR3
7 unique J



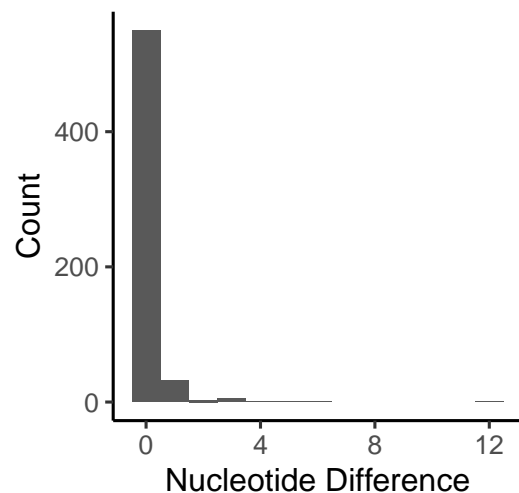
IGHV1-45*02

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



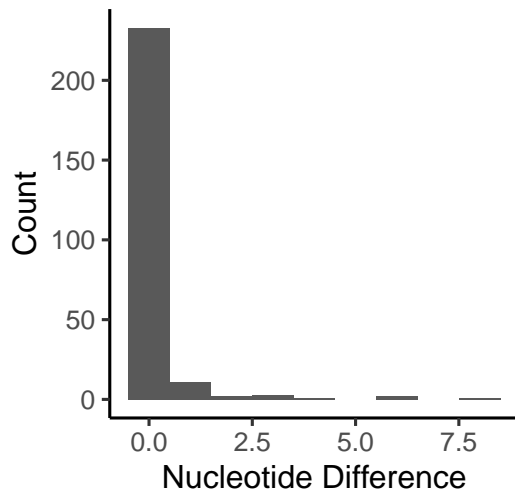
IGHV2-5*02

594 sequences assigned
550 (92.6%) exact matches, in which:
540 unique CDR3
7 unique J



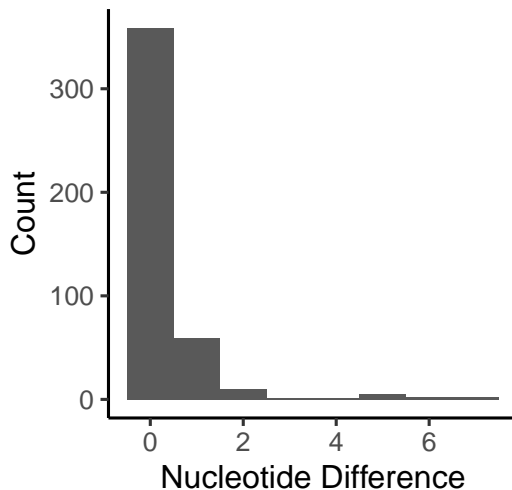
IGHV2-26*01

253 sequences assigned
233 (92.1%) exact matches, in which:
232 unique CDR3
6 unique J



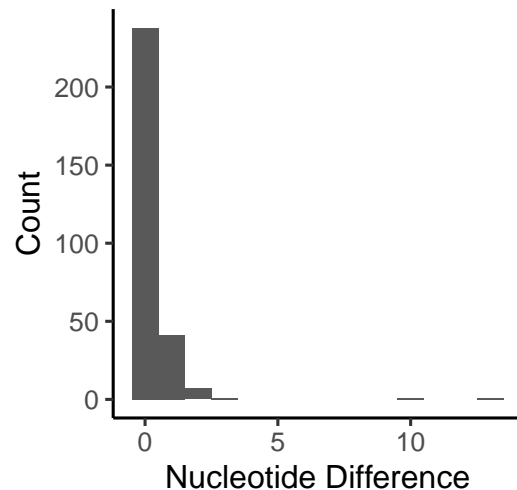
IGHV3-7*03

441 sequences assigned
359 (81.4%) exact matches, in which:
344 unique CDR3
6 unique J



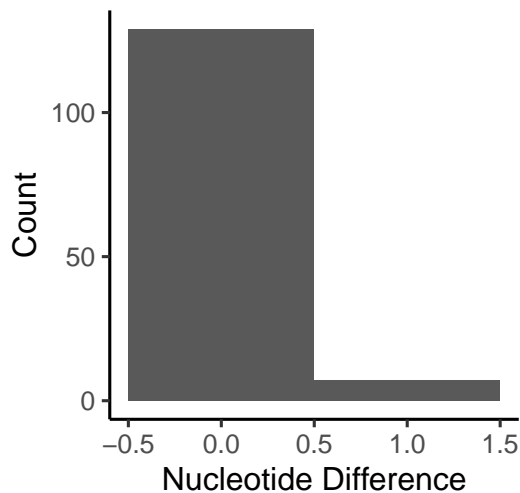
IGHV3-11*06

289 sequences assigned
238 (82.4%) exact matches, in which:
230 unique CDR3
6 unique J



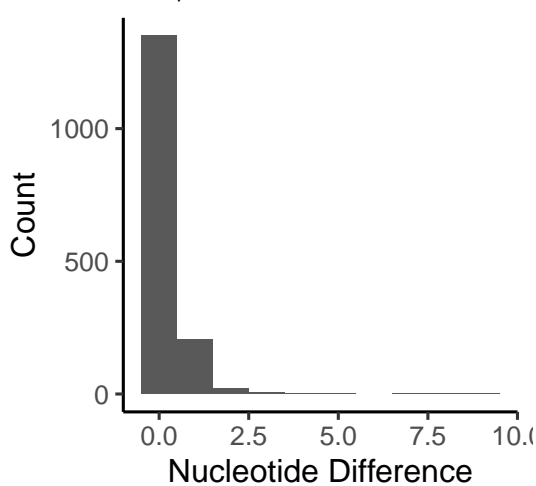
IGHV2-70*01

136 sequences assigned
129 (94.9%) exact matches, in which:
127 unique CDR3
6 unique J



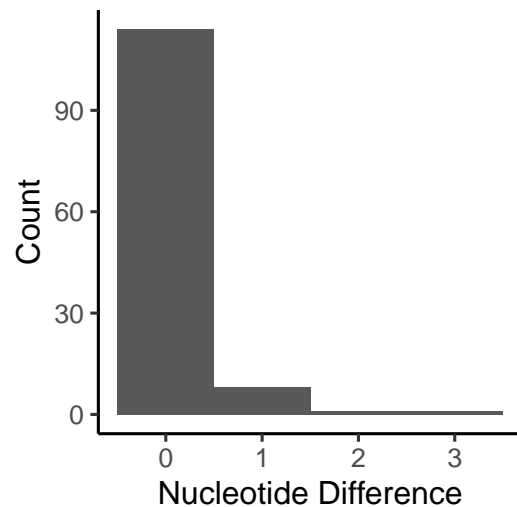
IGHV3-9*01

1590 sequences assigned
1350 (84.9%) exact matches, in which:
1264 unique CDR3
6 unique J



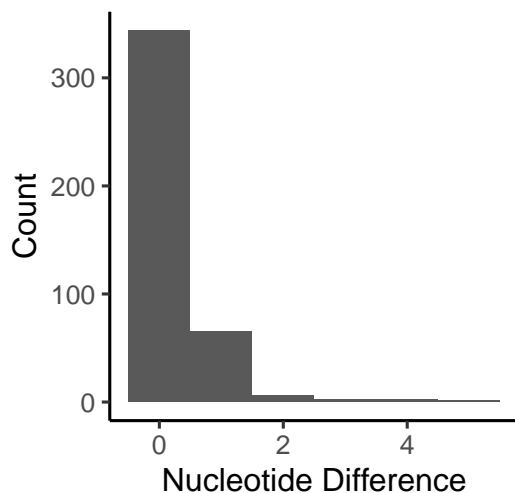
IGHV3-13*01

124 sequences assigned
114 (91.9%) exact matches, in which:
113 unique CDR3
6 unique J



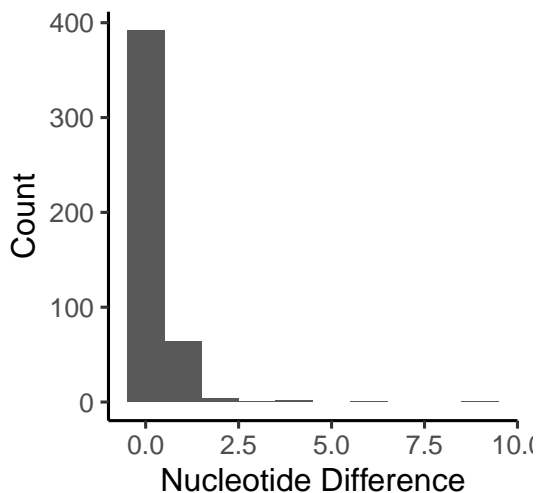
IGHV3-7*01

421 sequences assigned
344 (81.7%) exact matches, in which:
328 unique CDR3
7 unique J



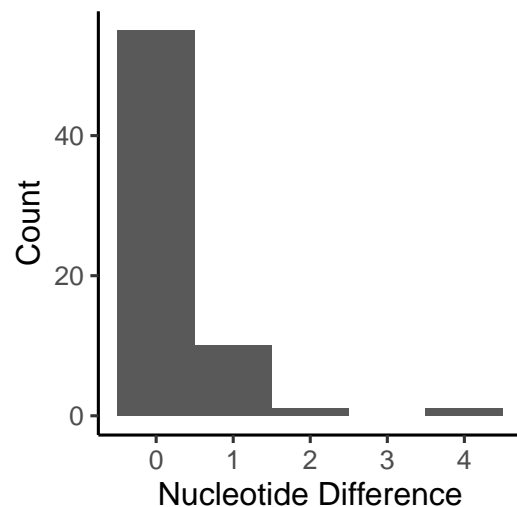
IGHV3-11*01

465 sequences assigned
392 (84.3%) exact matches, in which:
377 unique CDR3
6 unique J



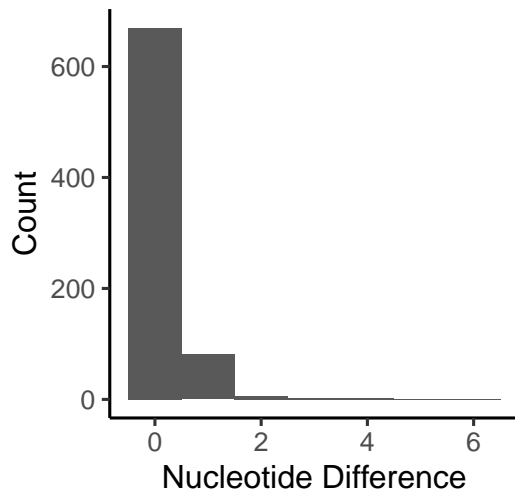
IGHV3-13*05

67 sequences assigned
55 (82.1%) exact matches, in which:
54 unique CDR3
4 unique J



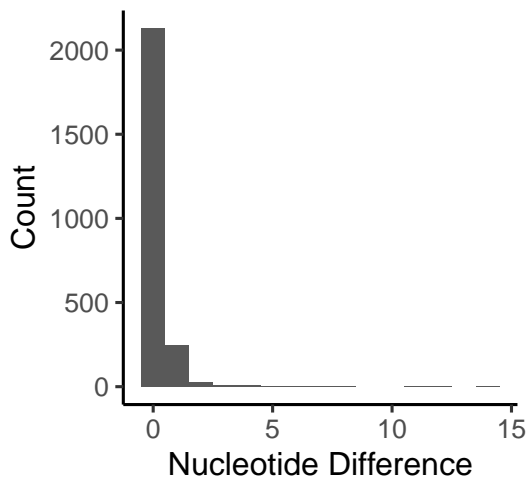
IGHV3–15*01

765 sequences assigned
670 (87.6%) exact matches, in which:
649 unique CDR3
7 unique J



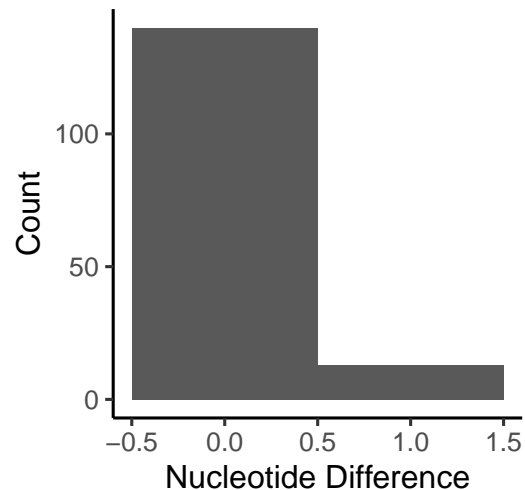
IGHV3–21*01

2435 sequences assigned
2129 (87.4%) exact matches, in which:
2008 unique CDR3
7 unique J



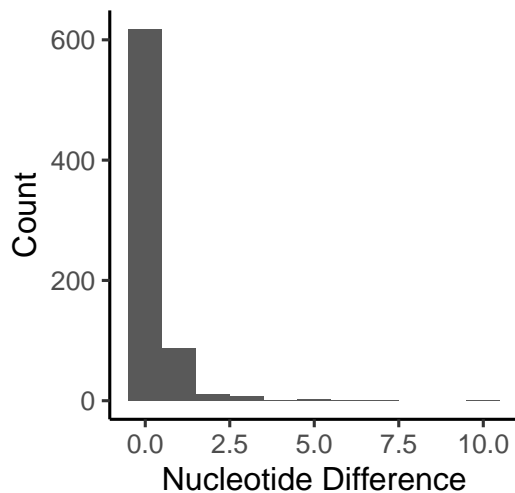
IGHV3–43*01

153 sequences assigned
140 (91.5%) exact matches, in which:
137 unique CDR3
6 unique J



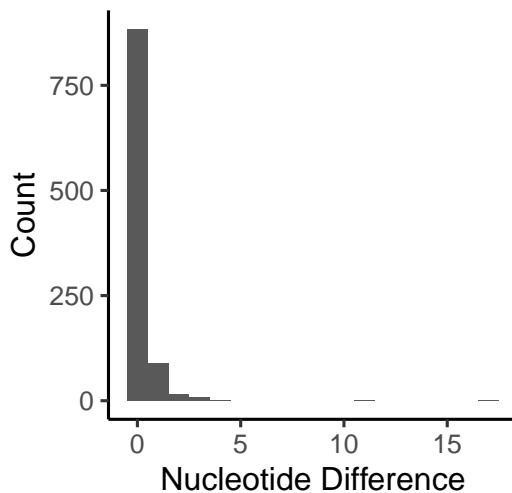
IGHV3–15*07

730 sequences assigned
618 (84.7%) exact matches, in which:
600 unique CDR3
6 unique J



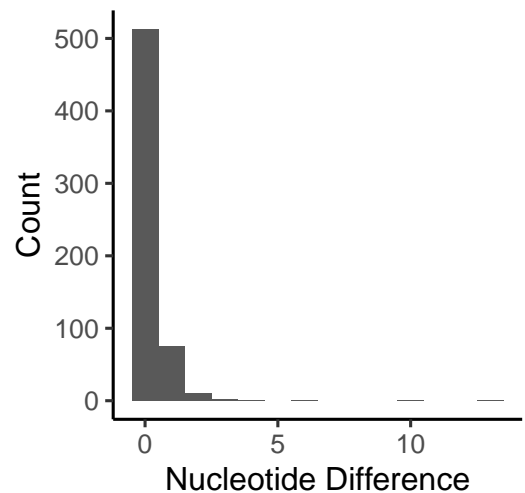
IGHV3–30*01

1002 sequences assigned
884 (88.2%) exact matches, in which:
841 unique CDR3
6 unique J



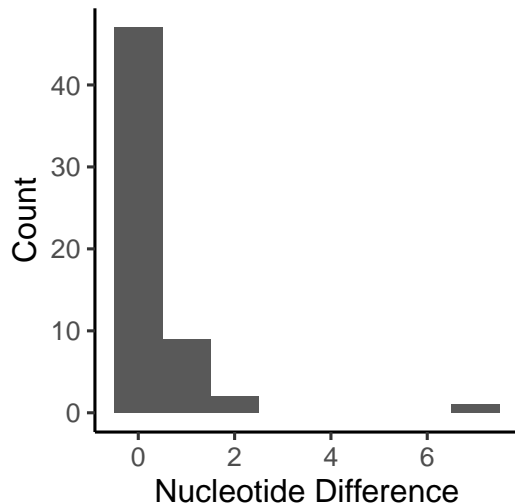
IGHV3–48*02

604 sequences assigned
513 (84.9%) exact matches, in which:
505 unique CDR3
7 unique J



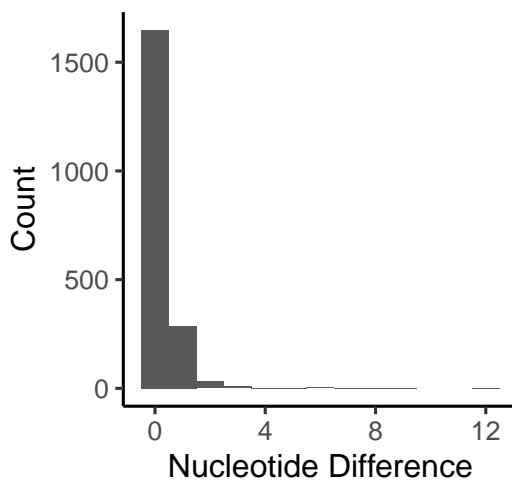
IGHV3–20*04

59 sequences assigned
47 (79.7%) exact matches, in which:
43 unique CDR3
5 unique J



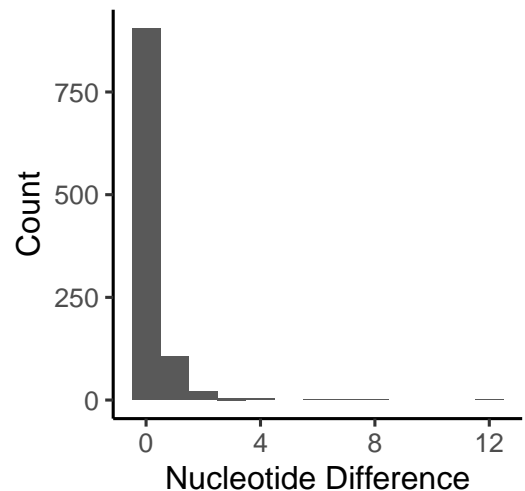
IGHV3–33*01

1985 sequences assigned
1648 (83%) exact matches, in which:
1574 unique CDR3
7 unique J



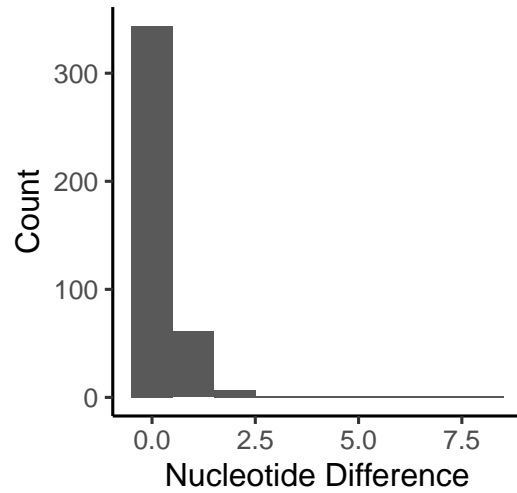
IGHV3–48*03

1045 sequences assigned
905 (86.6%) exact matches, in which:
867 unique CDR3
7 unique J



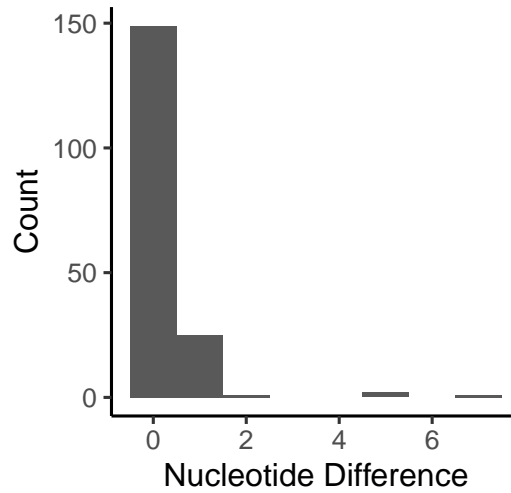
IGHV3-49*04

419 sequences assigned
344 (82.1%) exact matches, in which:
326 unique CDR3
5 unique J



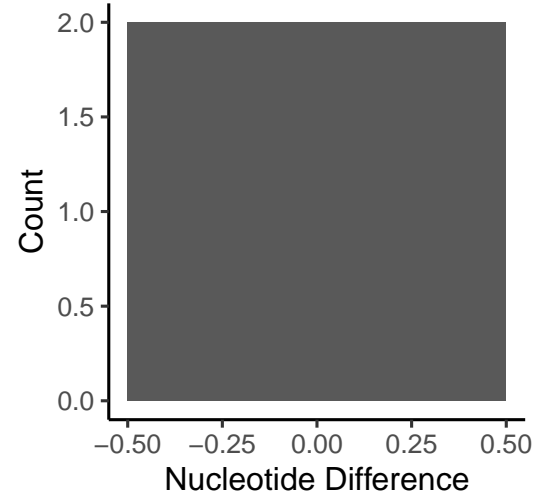
IGHV3-53*02

178 sequences assigned
149 (83.7%) exact matches, in which:
146 unique CDR3
6 unique J



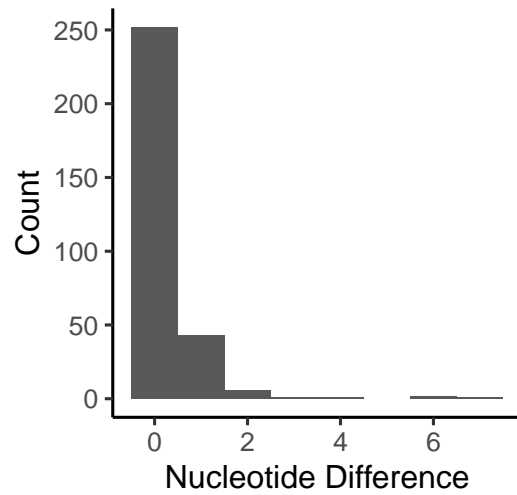
IGHV3-66*03

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



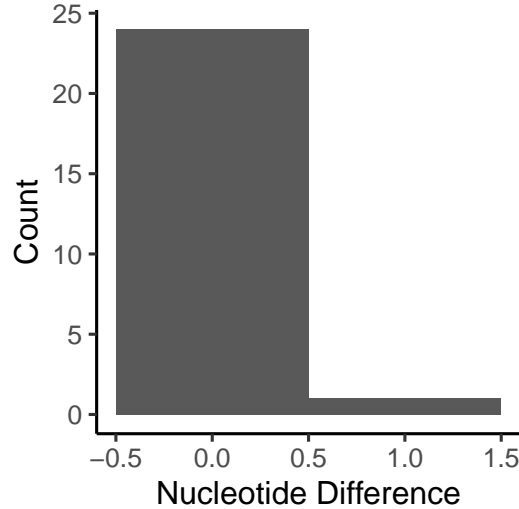
IGHV3-49*05

306 sequences assigned
252 (82.4%) exact matches, in which:
243 unique CDR3
6 unique J



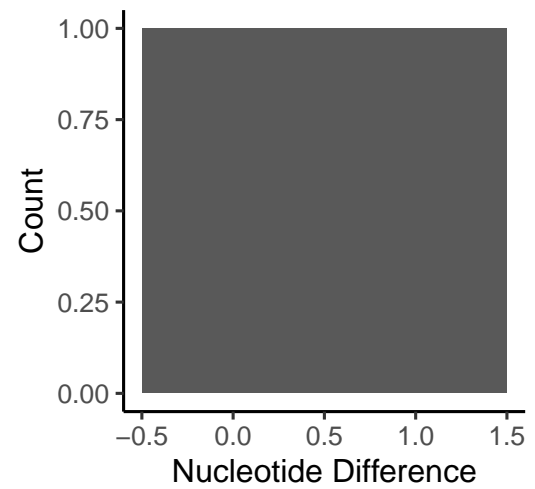
IGHV3-64*02

25 sequences assigned
24 (96%) exact matches, in which:
24 unique CDR3
5 unique J



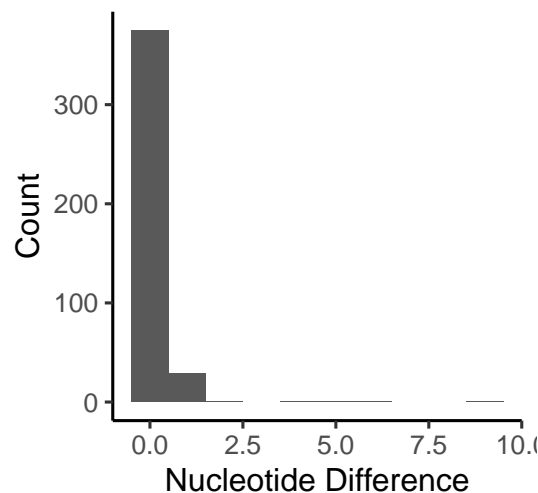
IGHV3-66*04

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



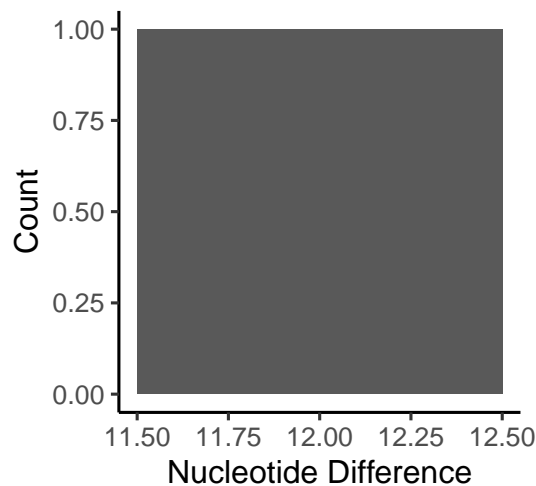
IGHV3-53*01

409 sequences assigned
375 (91.7%) exact matches, in which:
363 unique CDR3
6 unique J



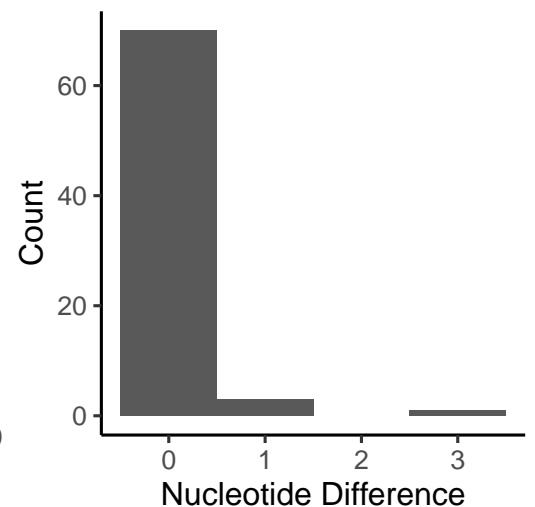
IGHV3-66*01

1 sequences assigned
No exact matches.



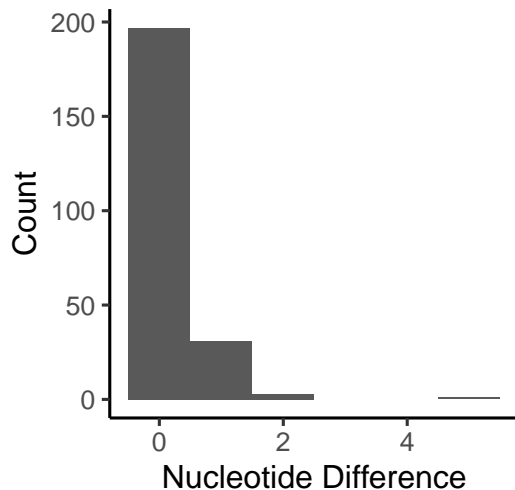
IGHV3-72*01

74 sequences assigned
70 (94.6%) exact matches, in which:
69 unique CDR3
7 unique J



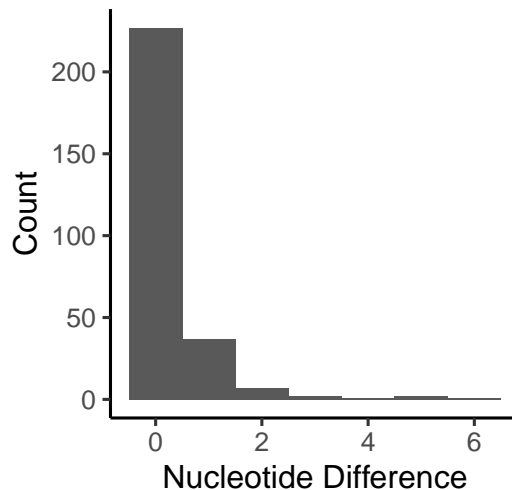
IGHV3-73*02

232 sequences assigned
197 (84.9%) exact matches, in which:
188 unique CDR3
7 unique J



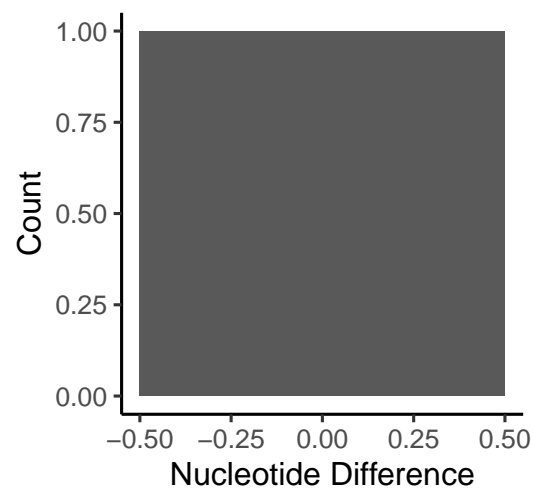
IGHV3-64D*06

277 sequences assigned
227 (81.9%) exact matches, in which:
221 unique CDR3
6 unique J



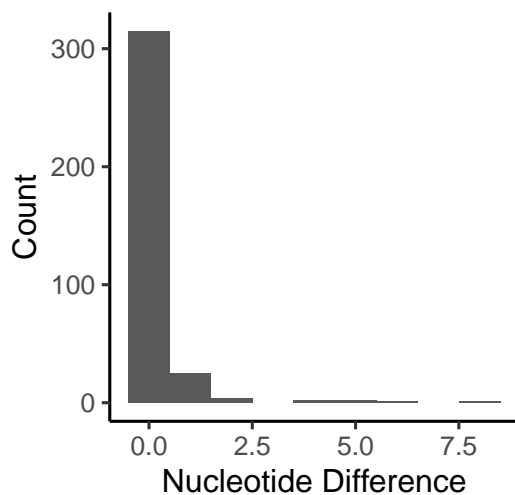
IGHV4-28*02

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



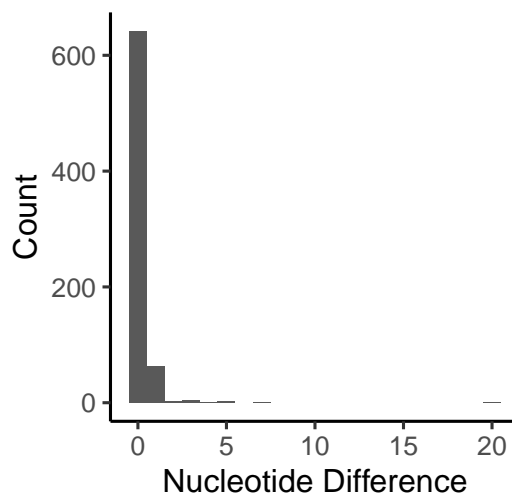
IGHV3-74*01

350 sequences assigned
315 (90%) exact matches, in which:
309 unique CDR3
7 unique J



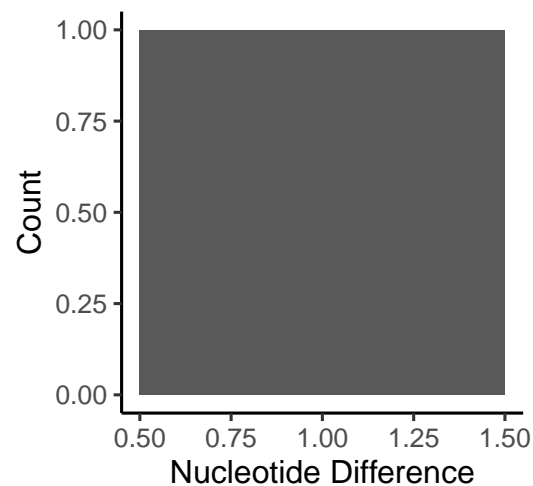
IGHV4-4*02

717 sequences assigned
642 (89.5%) exact matches, in which:
628 unique CDR3
7 unique J



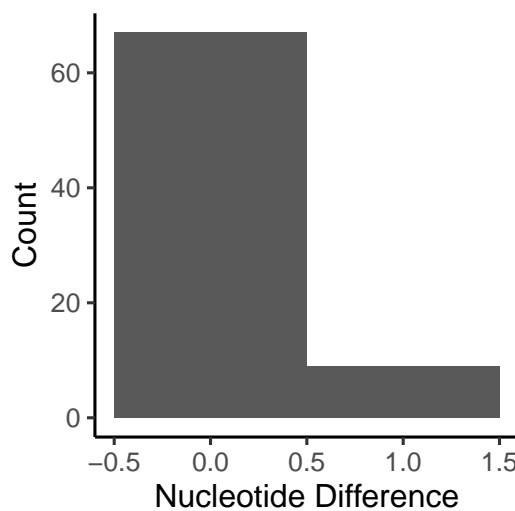
IGHV4-30-2*03

1 sequences assigned
No exact matches.



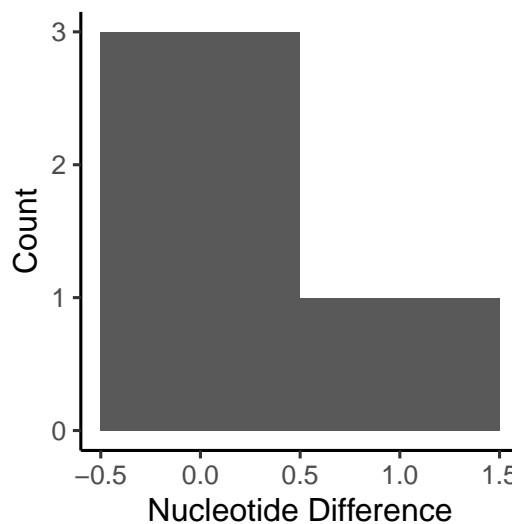
IGHV3-43D*04

76 sequences assigned
67 (88.2%) exact matches, in which:
66 unique CDR3
5 unique J



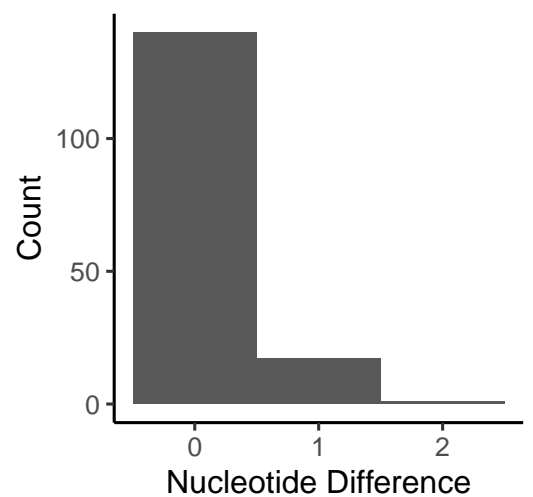
IGHV4-28*01

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



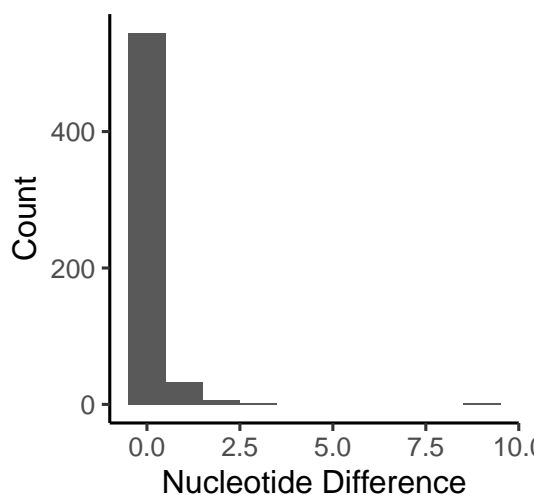
IGHV4-31*01

158 sequences assigned
140 (88.6%) exact matches, in which:
138 unique CDR3
5 unique J



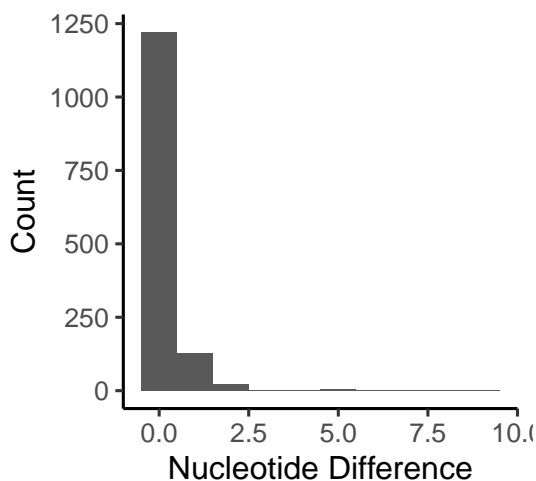
IGHV4–31*03

589 sequences assigned
545 (92.5%) exact matches, in which:
534 unique CDR3
7 unique J



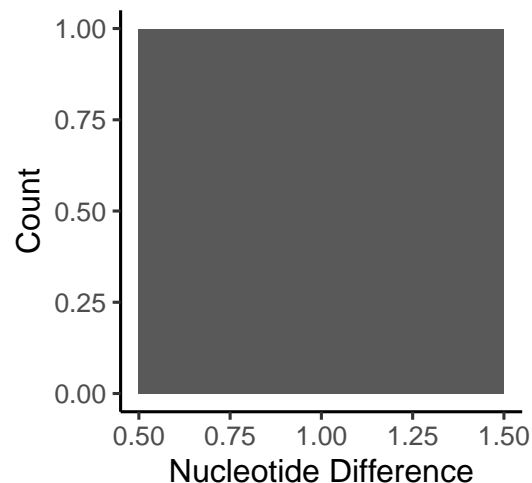
IGHV4–39*01

1384 sequences assigned
1220 (88.2%) exact matches, in which:
1187 unique CDR3
6 unique J



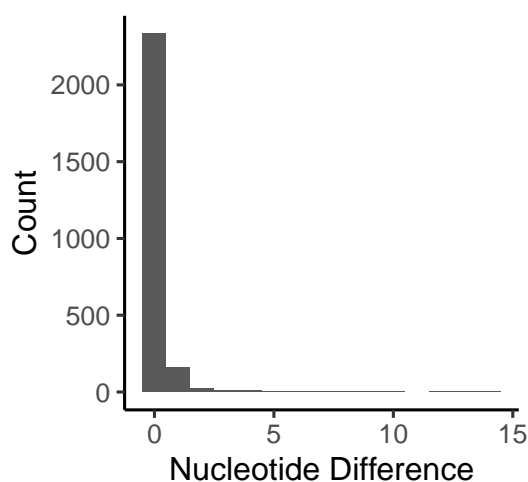
IGHV1/OR15–2*01

1 sequences assigned
No exact matches.



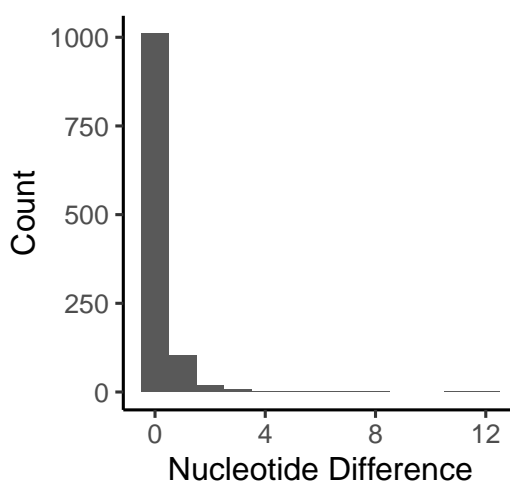
IGHV4–34*01

2563 sequences assigned
2333 (91%) exact matches, in which:
2246 unique CDR3
7 unique J



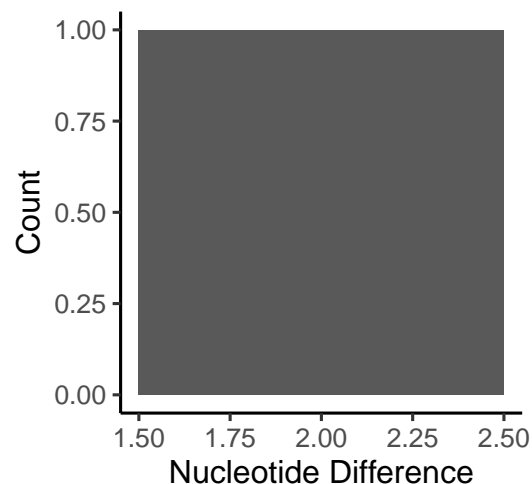
IGHV4–59*01

1149 sequences assigned
1010 (87.9%) exact matches, in which:
987 unique CDR3
7 unique J



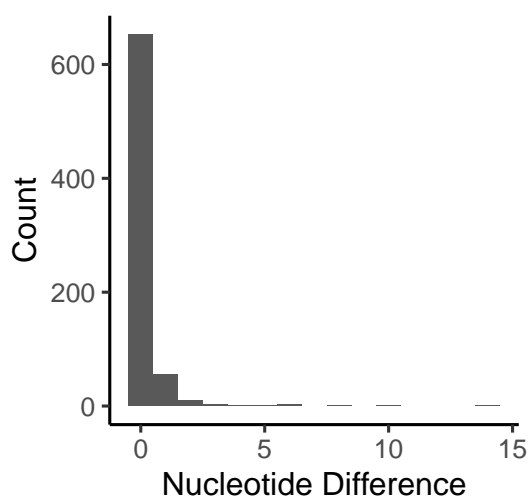
IGHV1/OR15–4*01

1 sequences assigned
No exact matches.



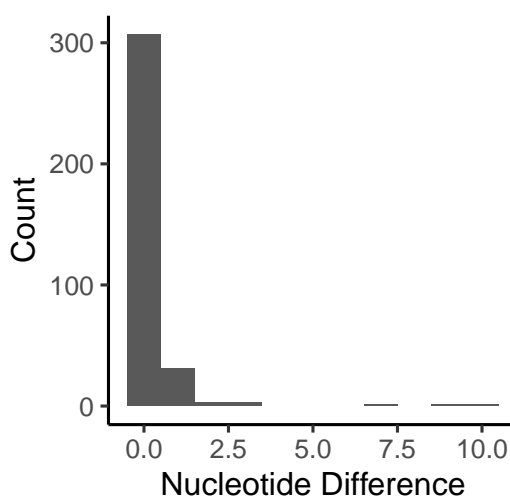
IGHV4–38–2*02_A70G

727 sequences assigned
653 (89.8%) exact matches, in which:
627 unique CDR3
6 unique J



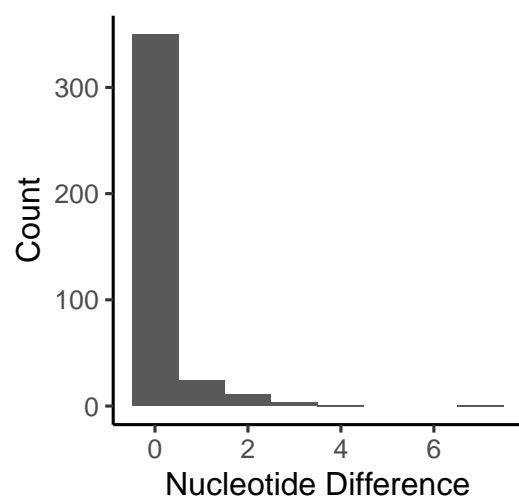
IGHV4–61*01

347 sequences assigned
307 (88.5%) exact matches, in which:
301 unique CDR3
7 unique J



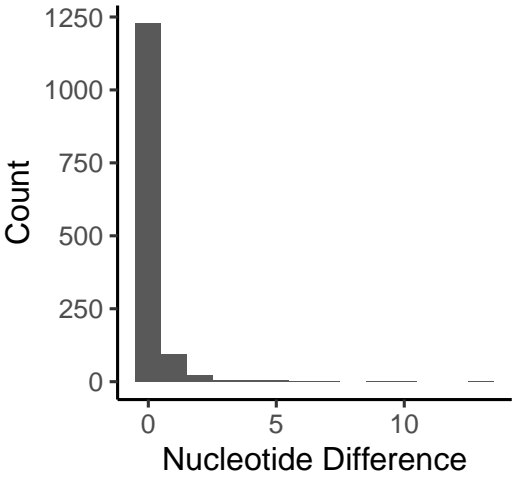
IGHV5–10–1*03

390 sequences assigned
350 (89.7%) exact matches, in which:
344 unique CDR3
7 unique J



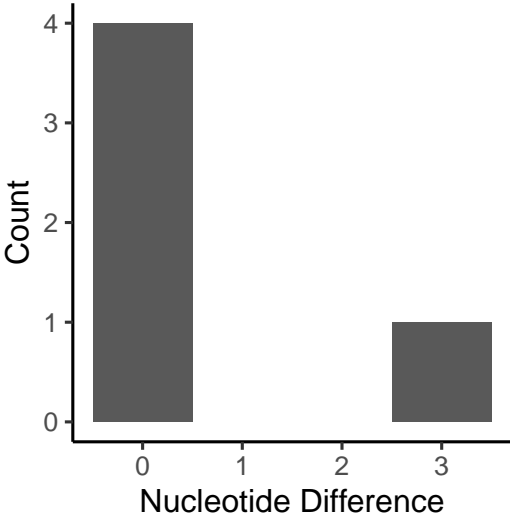
IGHV5-51*01

1369 sequences assigned
1228 (89.7%) exact matches, in which:
1189 unique CDR3
7 unique J



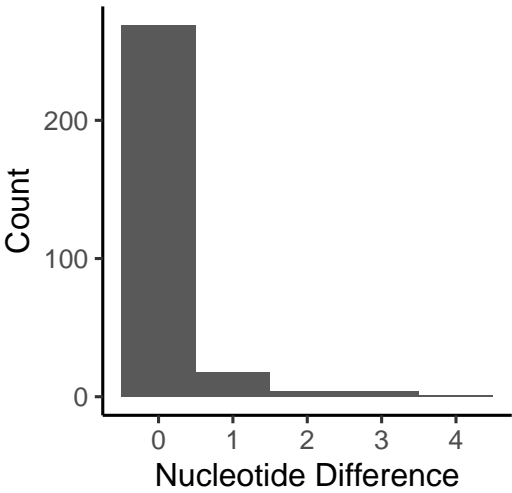
IGHV7-4-1*01

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



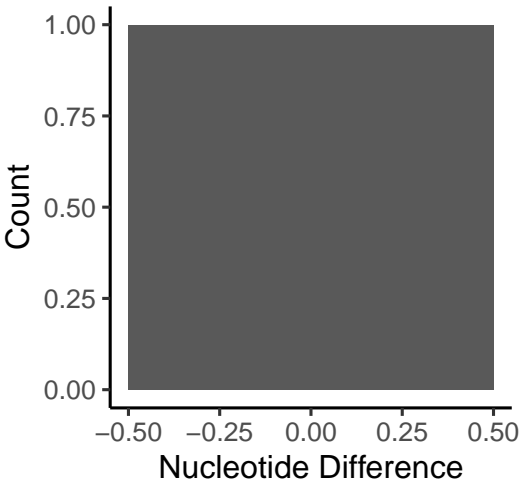
IGHV6-1*01

296 sequences assigned
269 (90.9%) exact matches, in which:
260 unique CDR3
7 unique J

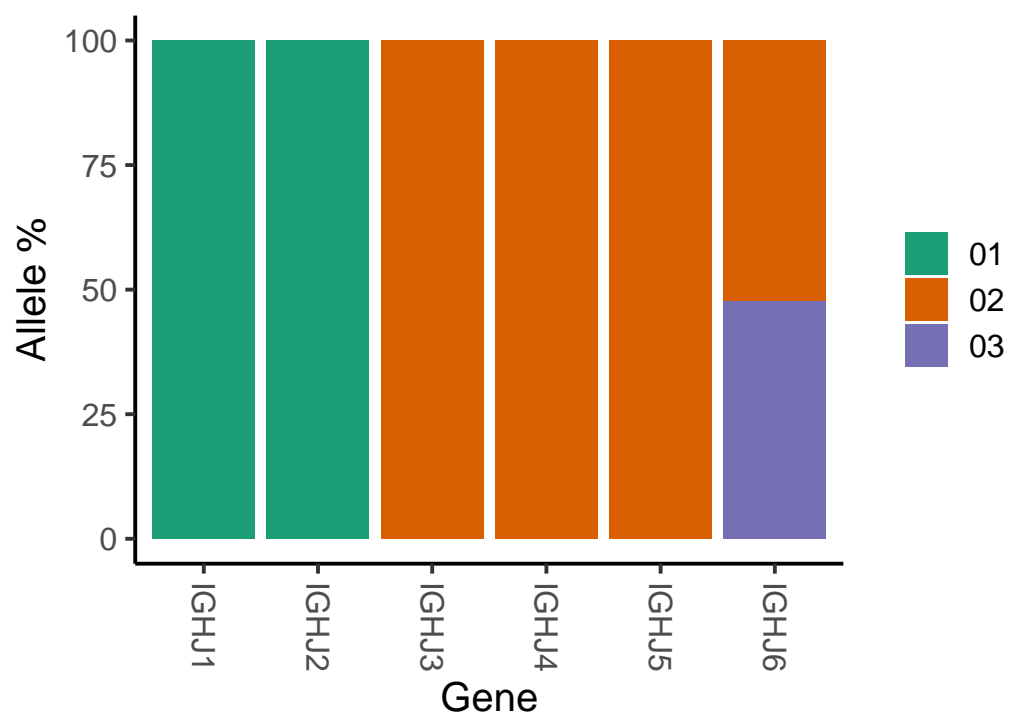


IGHV3/OR16-12*01

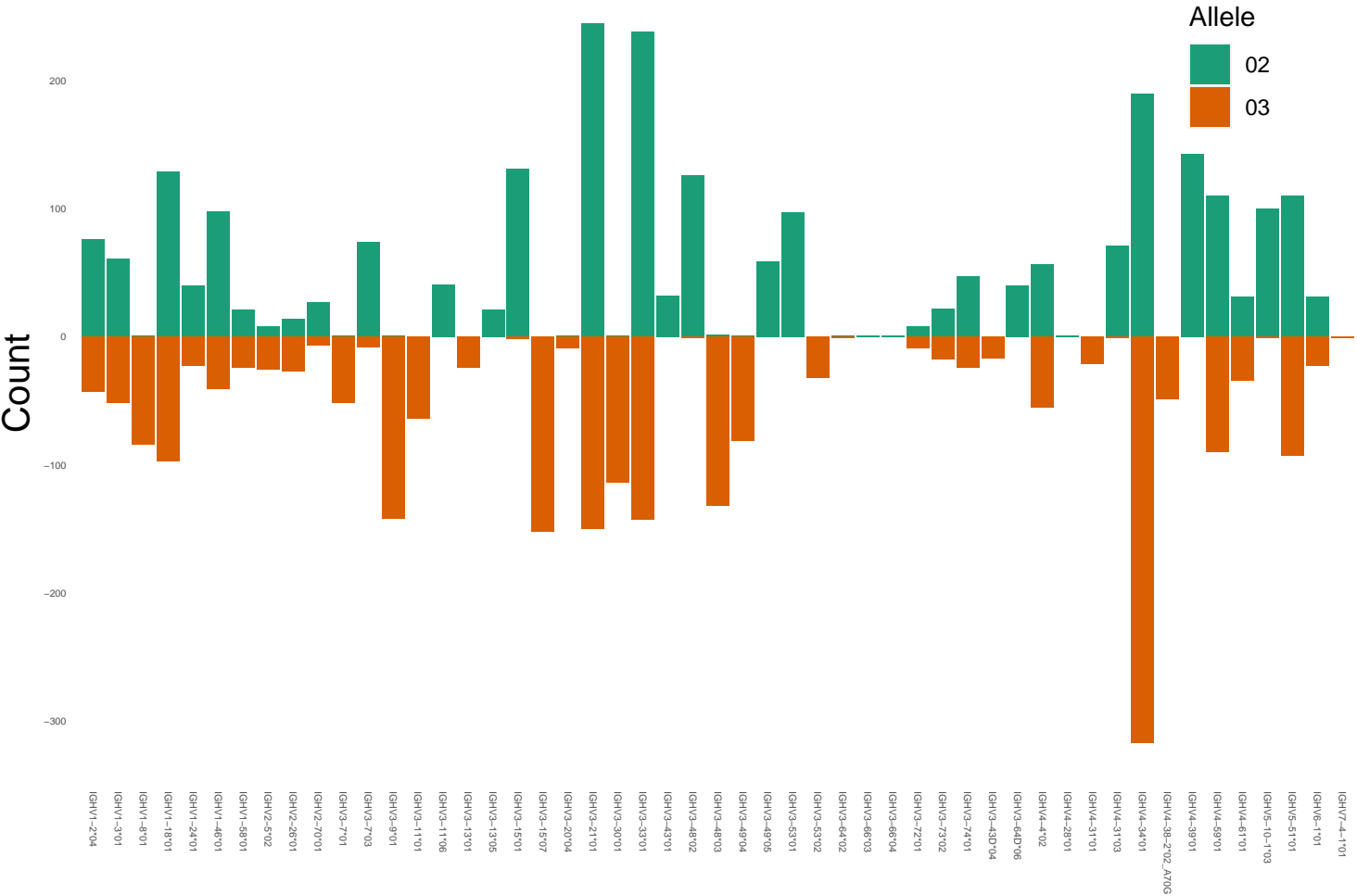
1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.