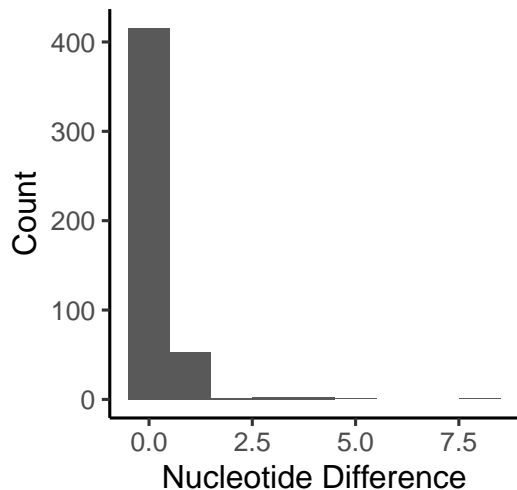


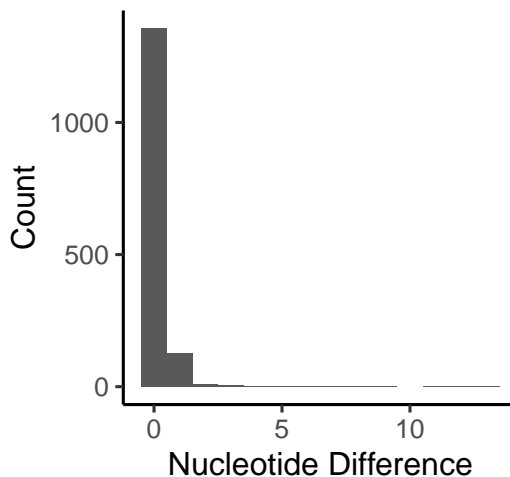
IGHV1-2*04

479 sequences assigned
416 (86.8%) exact matches, in which:
387 unique CDR3
6 unique J



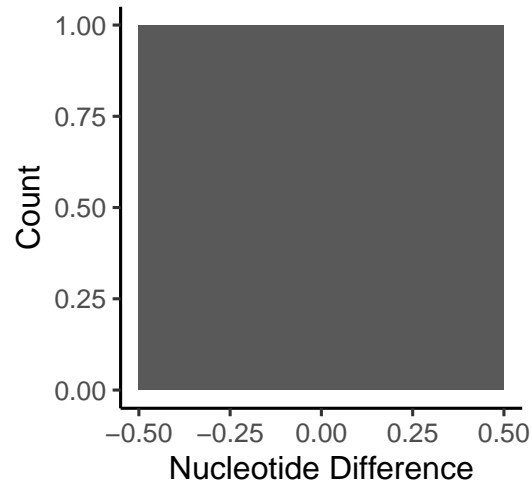
IGHV1-8*01

1515 sequences assigned
1356 (89.5%) exact matches, in which:
1238 unique CDR3
6 unique J



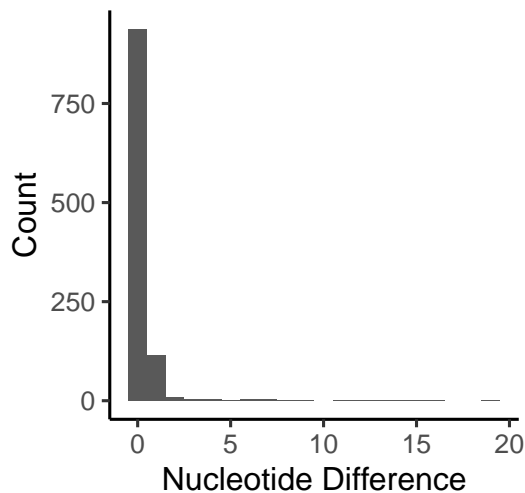
IGHV1-45*03

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



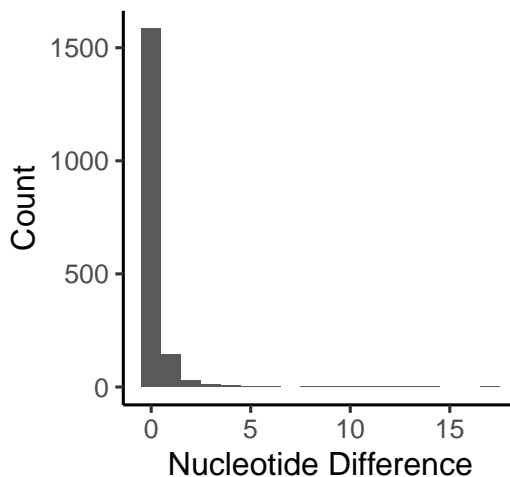
IGHV1-2*06

1094 sequences assigned
938 (85.7%) exact matches, in which:
855 unique CDR3
6 unique J



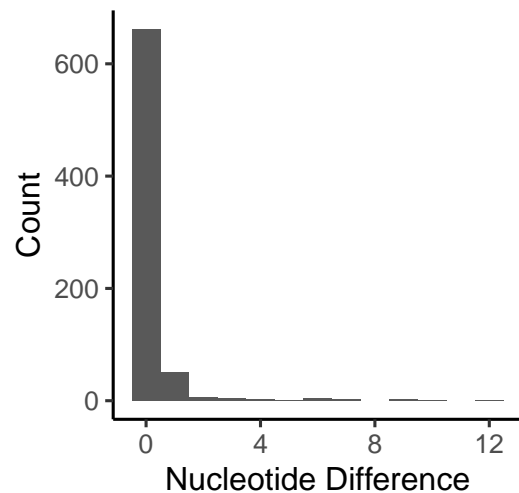
IGHV1-18*01

1800 sequences assigned
1584 (88%) exact matches, in which:
1477 unique CDR3
6 unique J



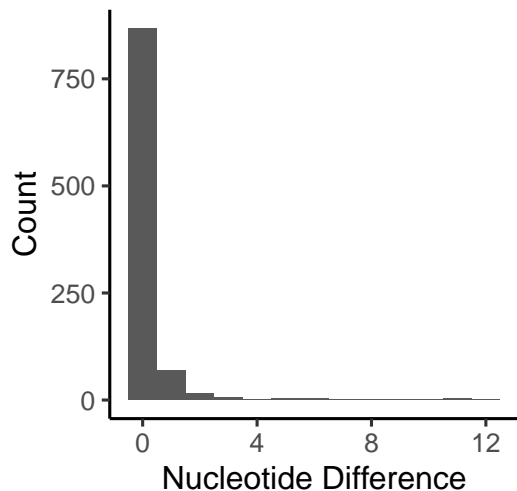
IGHV1-46*01

739 sequences assigned
662 (89.6%) exact matches, in which:
603 unique CDR3
6 unique J



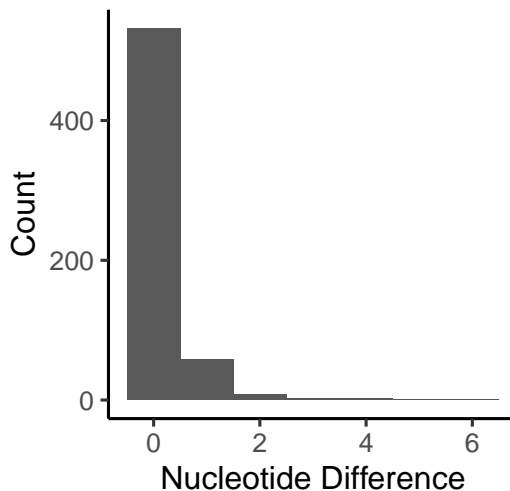
IGHV1-3*01

980 sequences assigned
868 (88.6%) exact matches, in which:
814 unique CDR3
6 unique J



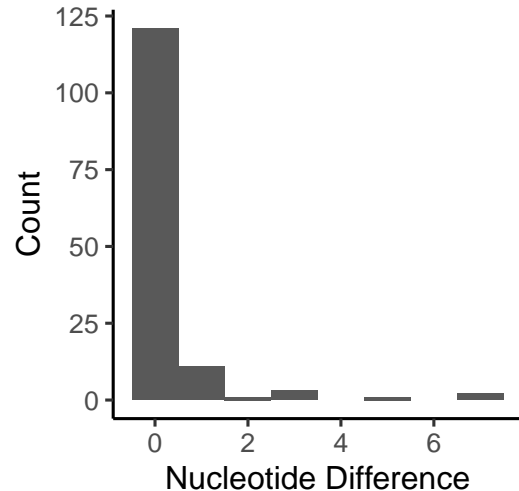
IGHV1-24*01

606 sequences assigned
532 (87.8%) exact matches, in which:
494 unique CDR3
6 unique J



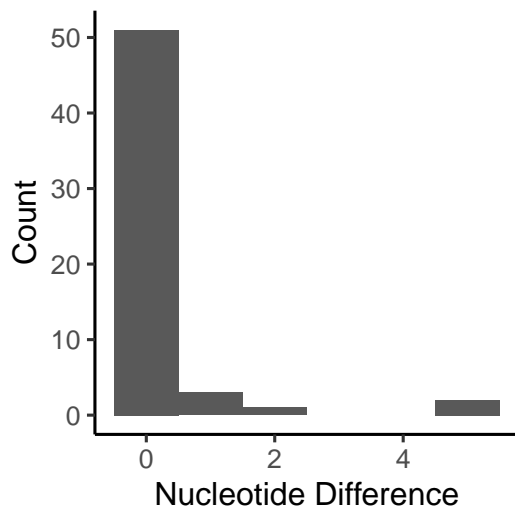
IGHV1-58*01

139 sequences assigned
121 (87.1%) exact matches, in which:
112 unique CDR3
5 unique J



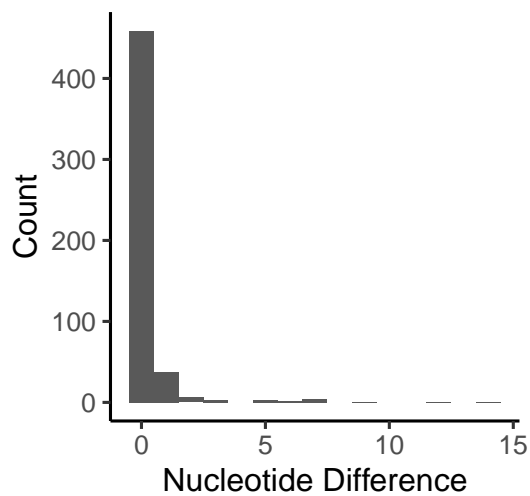
IGHV1-58*02

57 sequences assigned
51 (89.5%) exact matches, in which:
47 unique CDR3
4 unique J



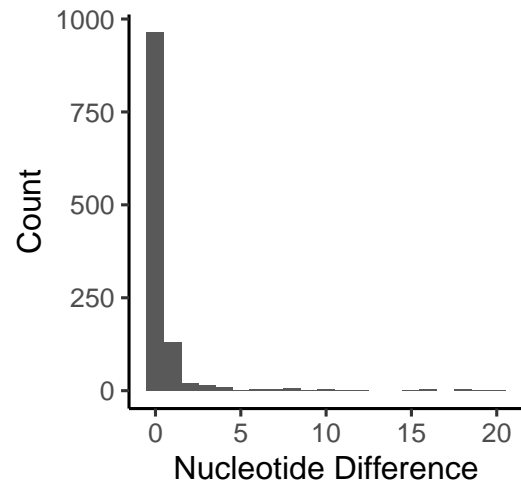
IGHV2-26*01

519 sequences assigned
459 (88.4%) exact matches, in which:
431 unique CDR3
6 unique J



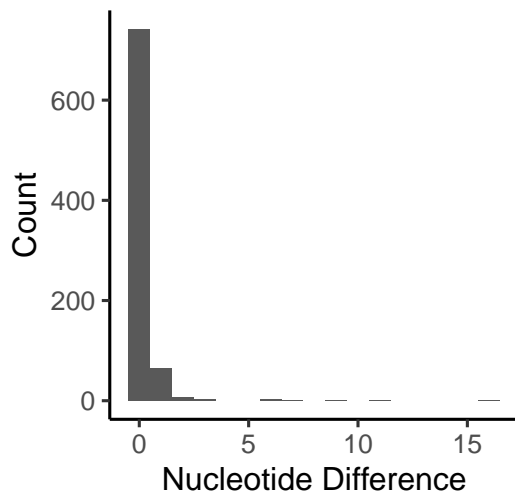
IGHV3-7*01

1178 sequences assigned
964 (81.8%) exact matches, in which:
884 unique CDR3
6 unique J



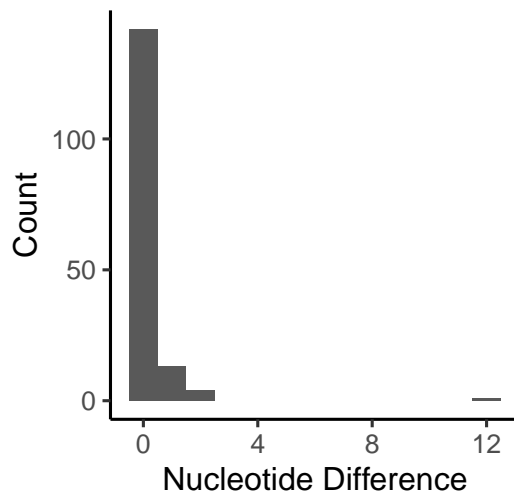
IGHV1-69*04

824 sequences assigned
742 (90%) exact matches, in which:
678 unique CDR3
6 unique J



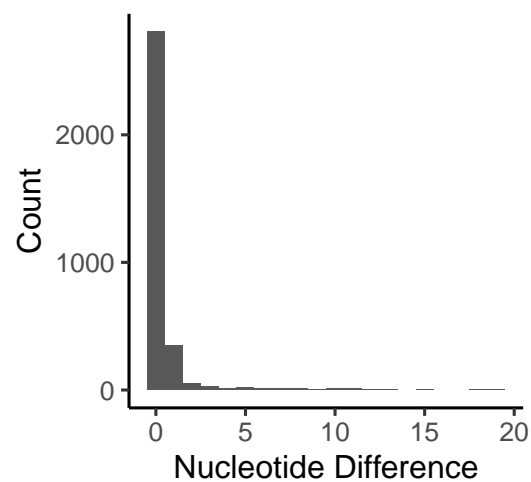
IGHV2-70*01

160 sequences assigned
142 (88.8%) exact matches, in which:
138 unique CDR3
5 unique J



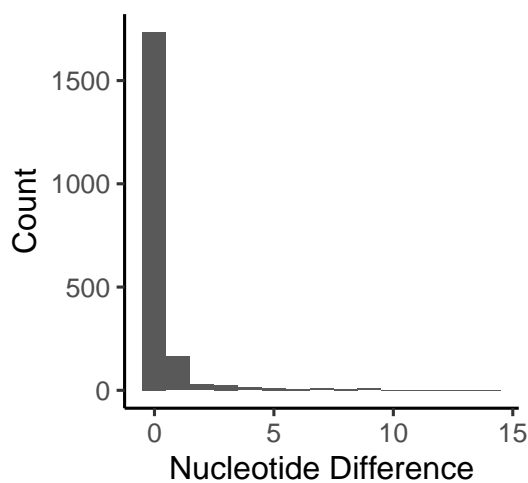
IGHV3-9*01

3332 sequences assigned
2808 (84.3%) exact matches, in which:
2453 unique CDR3
6 unique J



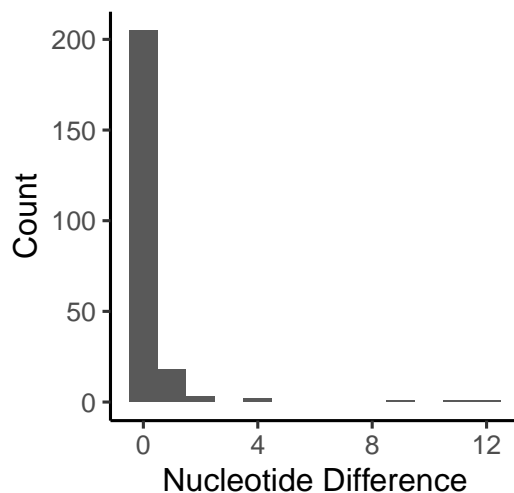
IGHV2-5*02

2017 sequences assigned
1735 (86%) exact matches, in which:
1617 unique CDR3
6 unique J



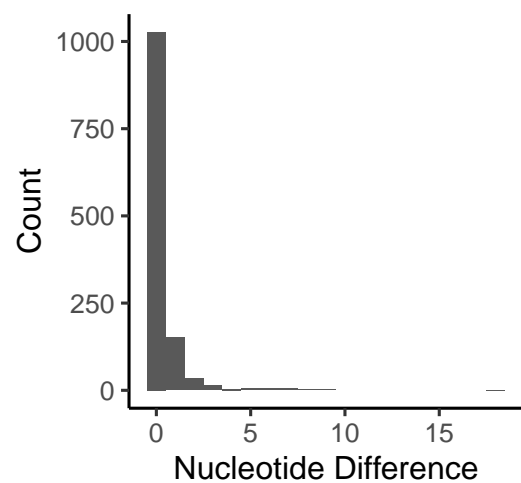
IGHV2-70*15

231 sequences assigned
205 (88.7%) exact matches, in which:
198 unique CDR3
6 unique J



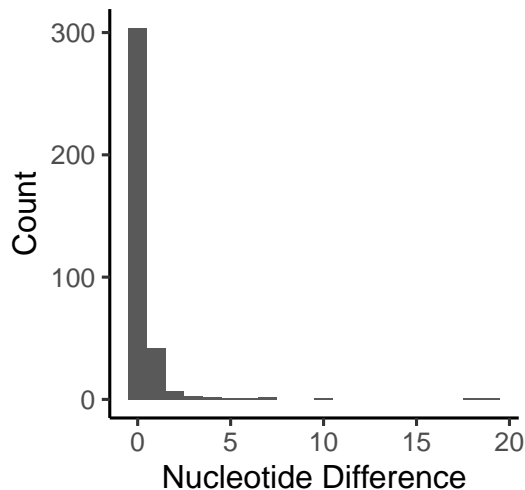
IGHV3-11*01

1250 sequences assigned
1027 (82.2%) exact matches, in which:
932 unique CDR3
6 unique J



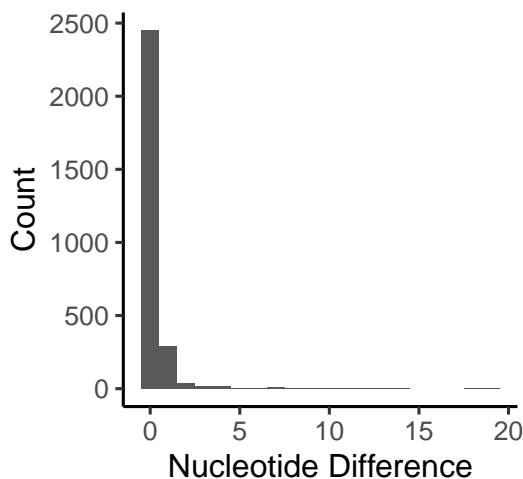
IGHV3-13*01

365 sequences assigned
304 (83.3%) exact matches, in which:
265 unique CDR3
6 unique J



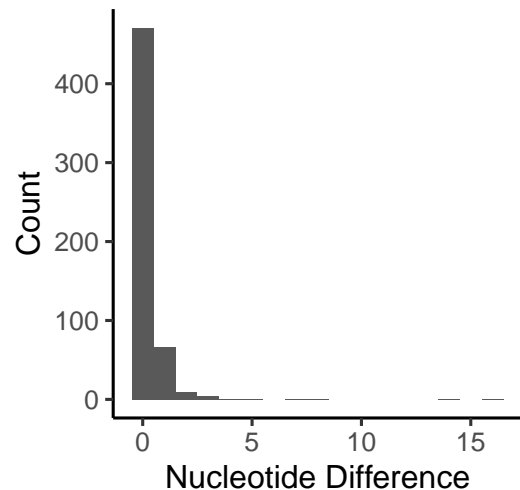
IGHV3-21*01

2850 sequences assigned
2450 (86%) exact matches, in which:
2165 unique CDR3
6 unique J



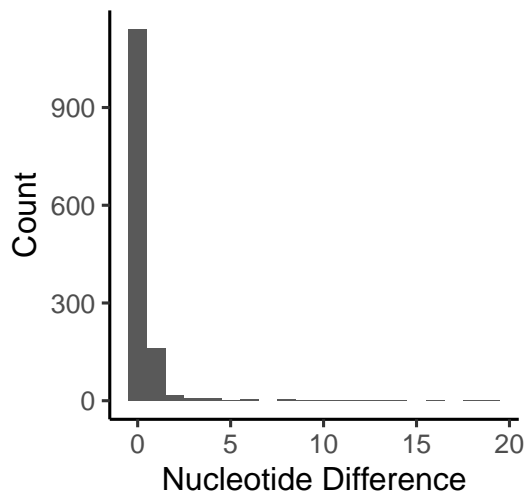
IGHV3-43*02

556 sequences assigned
471 (84.7%) exact matches, in which:
413 unique CDR3
6 unique J



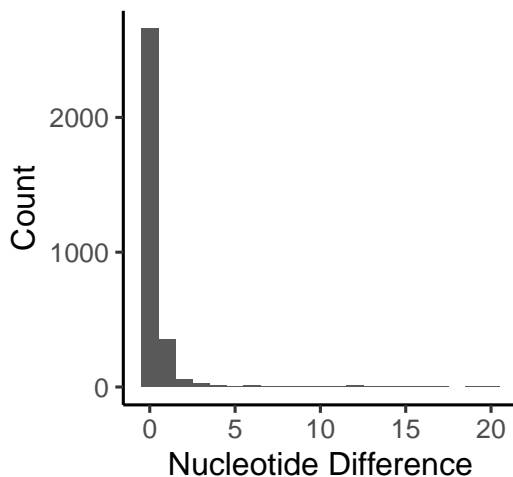
IGHV3-15*01

1360 sequences assigned
1141 (83.9%) exact matches, in which:
1025 unique CDR3
6 unique J



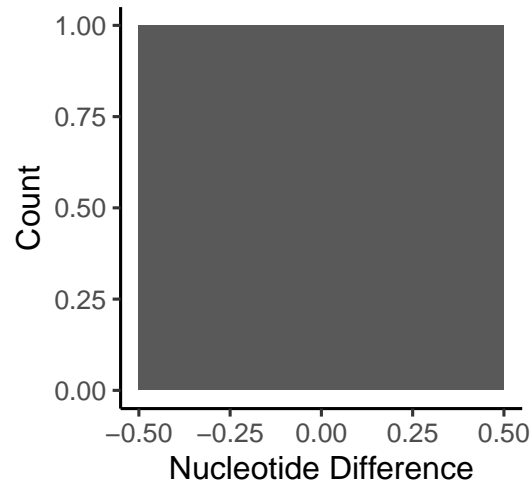
IGHV3-30-3*01

3167 sequences assigned
2658 (83.9%) exact matches, in which:
2344 unique CDR3
6 unique J



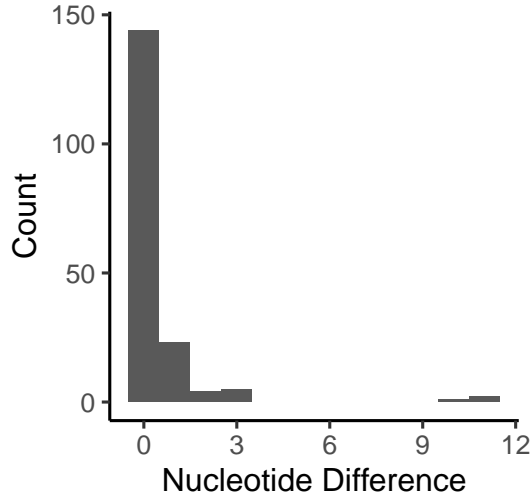
IGHV3-47*01

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



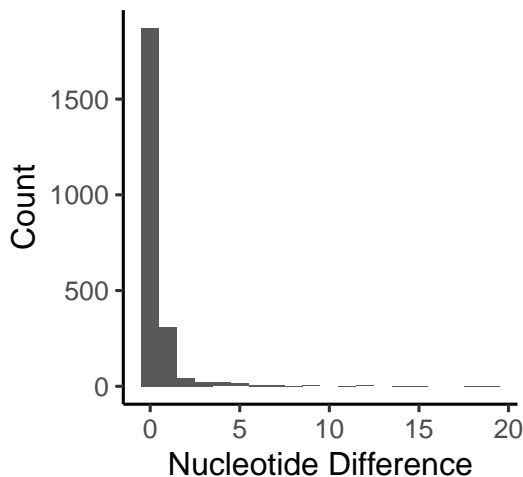
IGHV3-20*01

179 sequences assigned
144 (80.4%) exact matches, in which:
130 unique CDR3
6 unique J



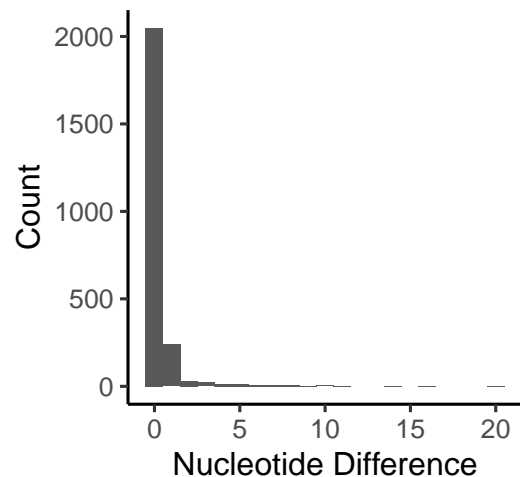
IGHV3-33*01

2323 sequences assigned
1871 (80.5%) exact matches, in which:
1671 unique CDR3
6 unique J



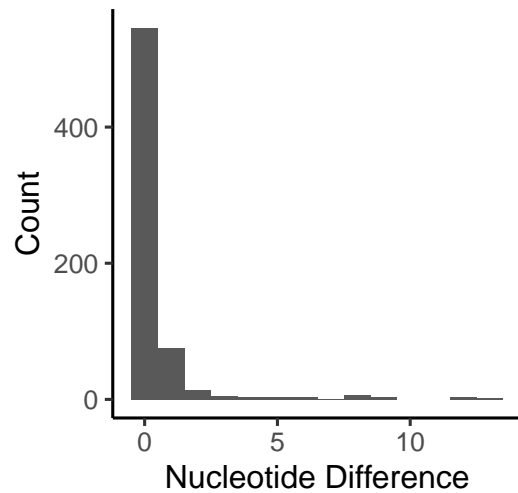
IGHV3-48*03

2400 sequences assigned
2048 (85.3%) exact matches, in which:
1841 unique CDR3
6 unique J



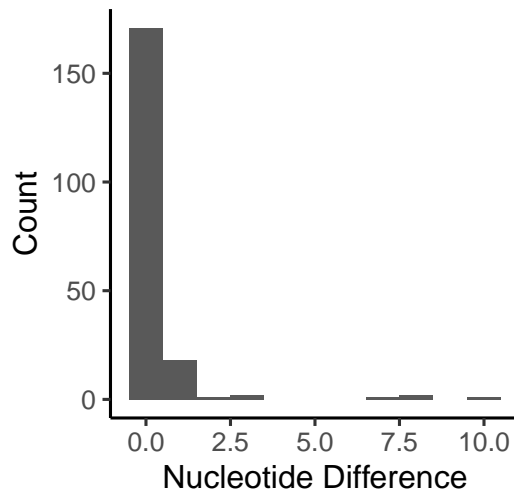
IGHV3–49*04

668 sequences assigned
546 (81.7%) exact matches, in which:
490 unique CDR3
6 unique J



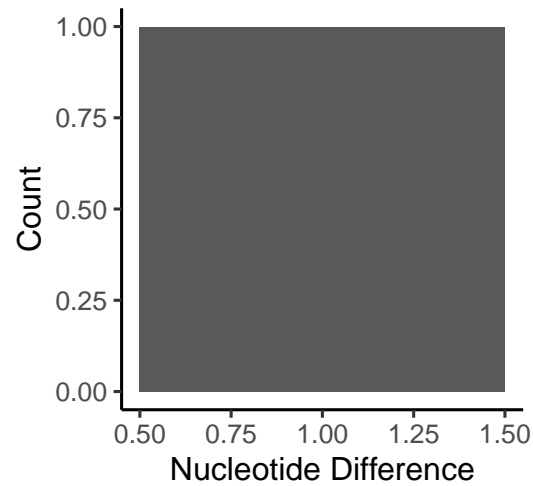
IGHV3–53*04

196 sequences assigned
171 (87.2%) exact matches, in which:
157 unique CDR3
6 unique J



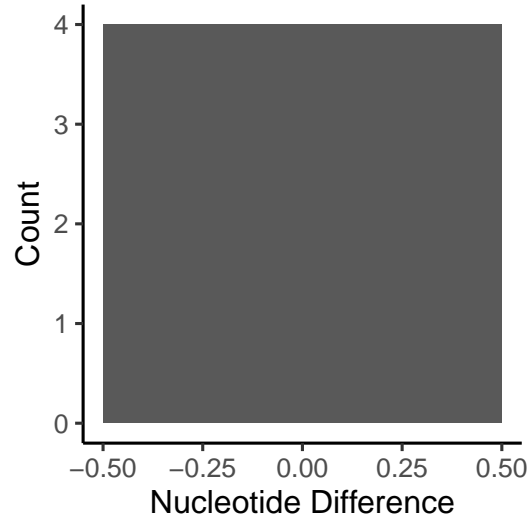
IGHV3–69–1*02

1 sequences assigned
No exact matches.



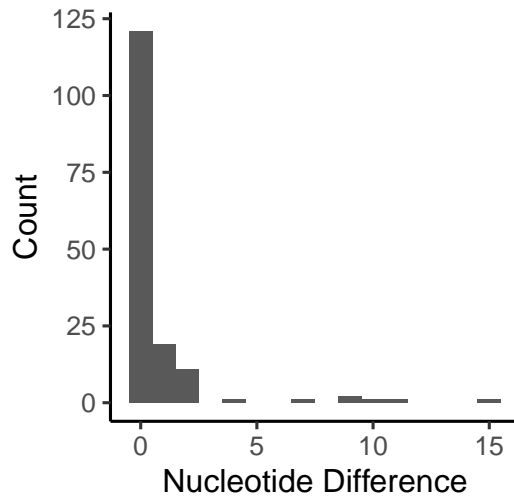
IGHV3–52*01

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



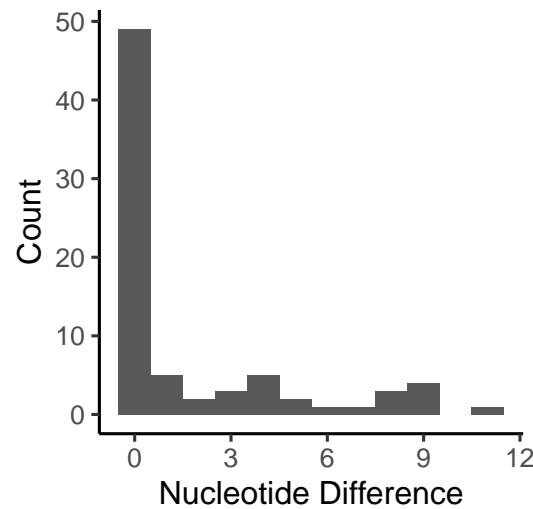
IGHV3–64*01

158 sequences assigned
121 (76.6%) exact matches, in which:
109 unique CDR3
6 unique J



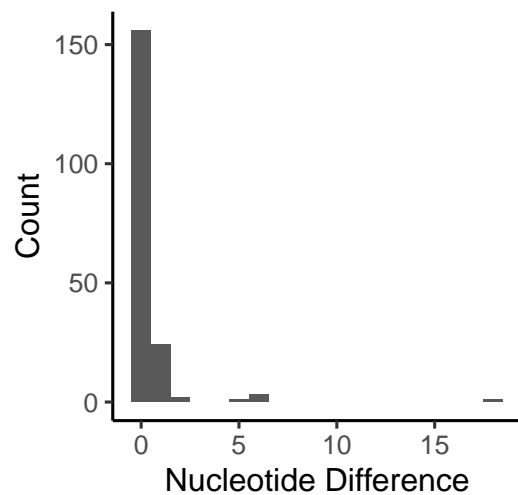
IGHV3–72*01

78 sequences assigned
49 (62.8%) exact matches, in which:
46 unique CDR3
5 unique J



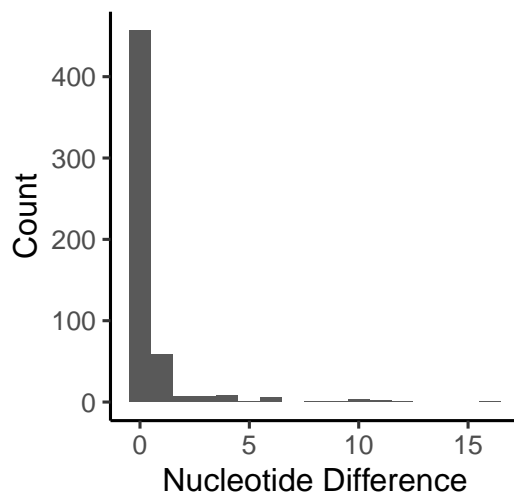
IGHV3–53*02

187 sequences assigned
156 (83.4%) exact matches, in which:
145 unique CDR3
5 unique J



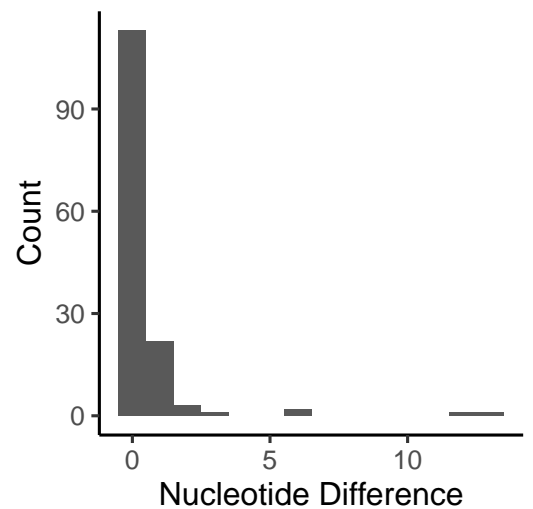
IGHV3–66*01

552 sequences assigned
457 (82.8%) exact matches, in which:
403 unique CDR3
6 unique J



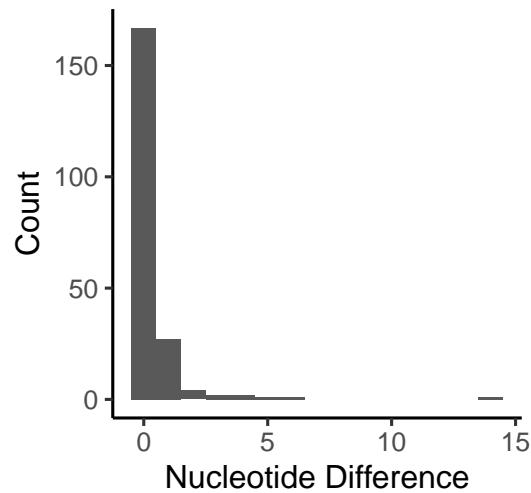
IGHV3–73*01

143 sequences assigned
113 (79%) exact matches, in which:
100 unique CDR3
4 unique J



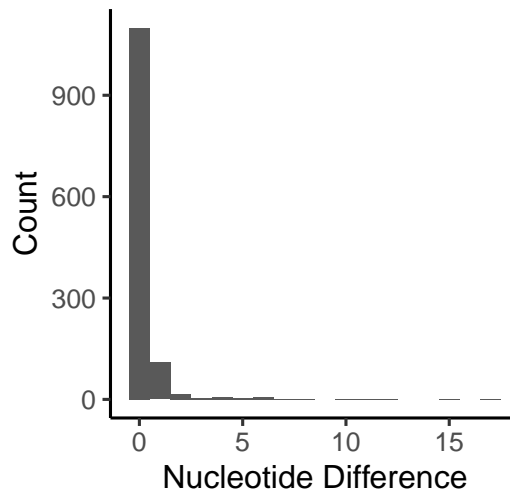
IGHV3-73*02

205 sequences assigned
167 (81.5%) exact matches, in which:
155 unique CDR3
6 unique J



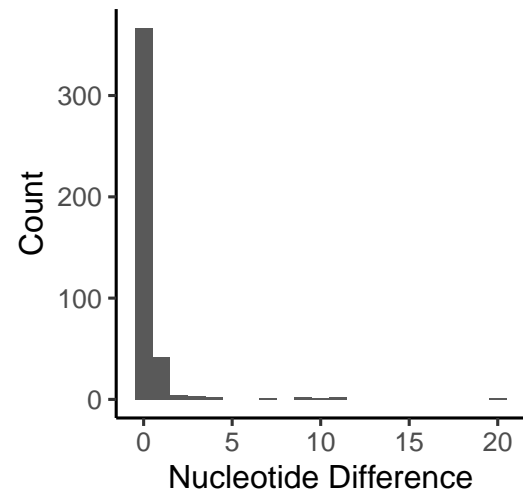
IGHV4-4*02

1259 sequences assigned
1100 (87.4%) exact matches, in which:
1000 unique CDR3
6 unique J



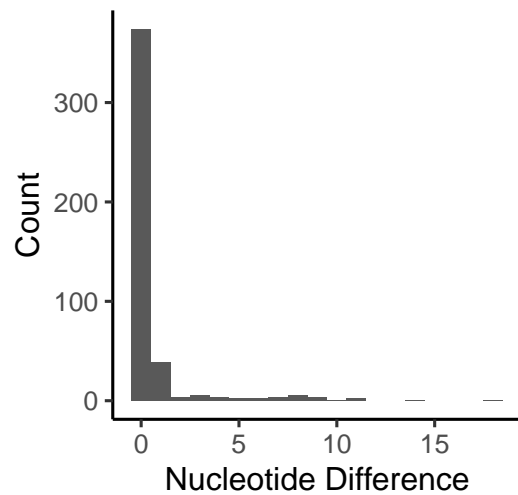
IGHV4-30-2*01

425 sequences assigned
367 (86.4%) exact matches, in which:
341 unique CDR3
6 unique J



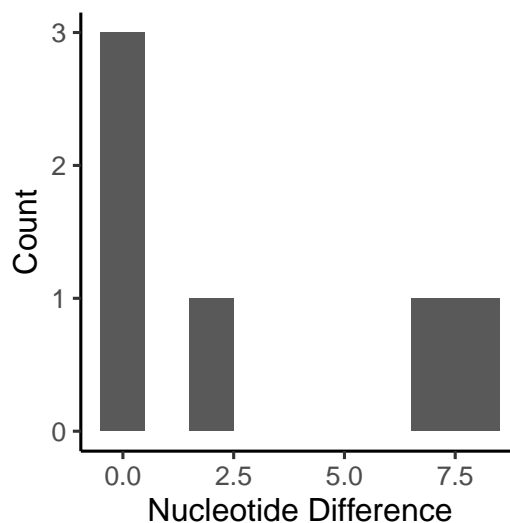
IGHV3-74*01

453 sequences assigned
374 (82.6%) exact matches, in which:
346 unique CDR3
6 unique J



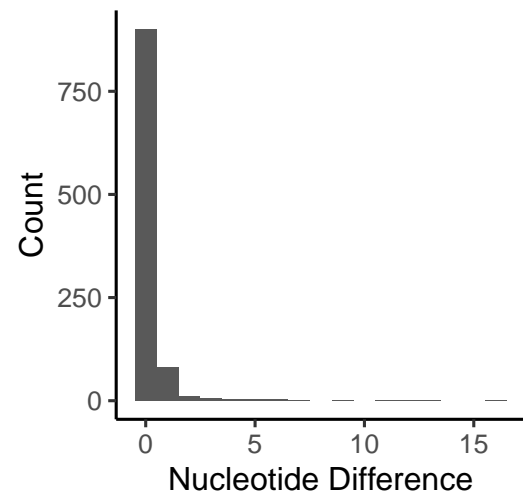
IGHV4-28*01

6 sequences assigned
3 (50%) exact matches, in which:
3 unique CDR3
2 unique J



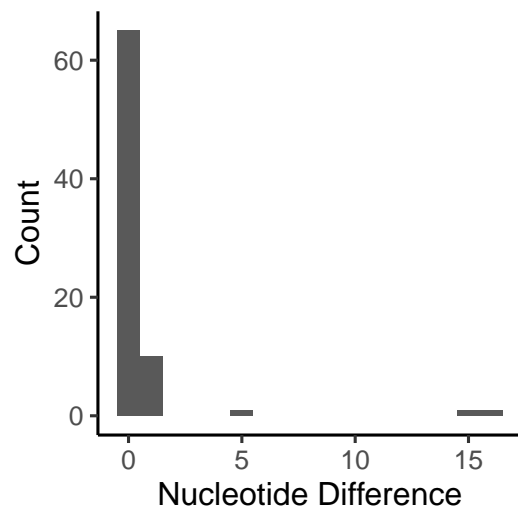
IGHV4-30-4*01

1016 sequences assigned
901 (88.7%) exact matches, in which:
840 unique CDR3
6 unique J



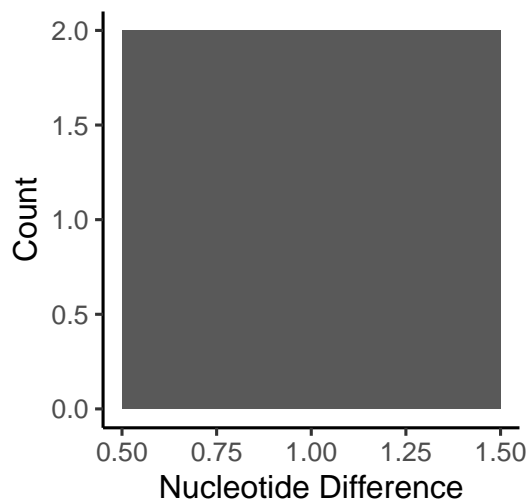
IGHV3-43D*04

78 sequences assigned
65 (83.3%) exact matches, in which:
58 unique CDR3
4 unique J



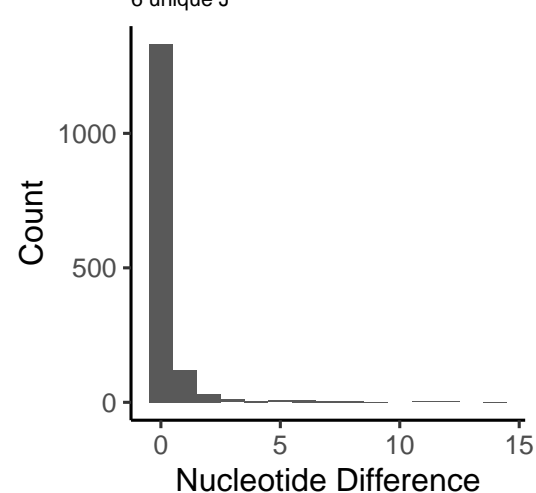
IGHV4-28*04

2 sequences assigned
No exact matches.



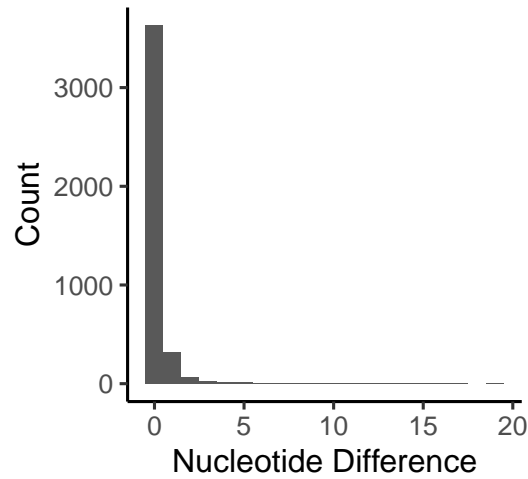
IGHV4-31*03

1530 sequences assigned
1332 (87.1%) exact matches, in which:
1228 unique CDR3
6 unique J



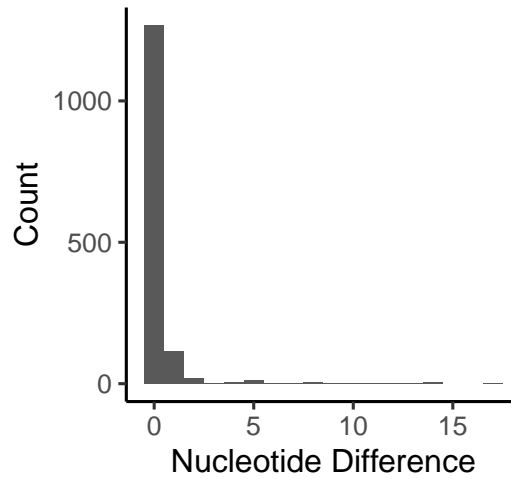
IGHV4-34*01

4113 sequences assigned
3630 (88.3%) exact matches, in which:
3249 unique CDR3
6 unique J



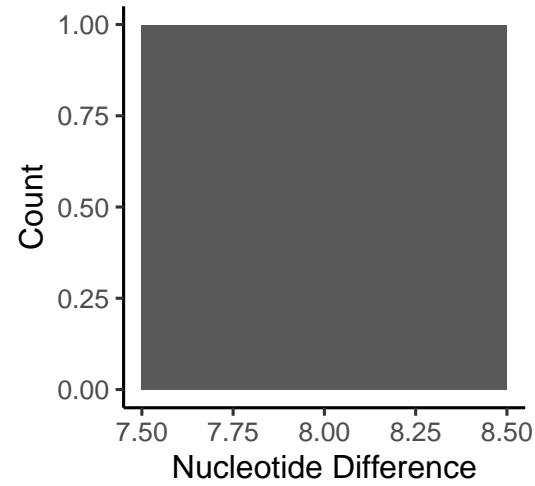
IGHV4-59*01

1446 sequences assigned
1267 (87.6%) exact matches, in which:
1191 unique CDR3
6 unique J



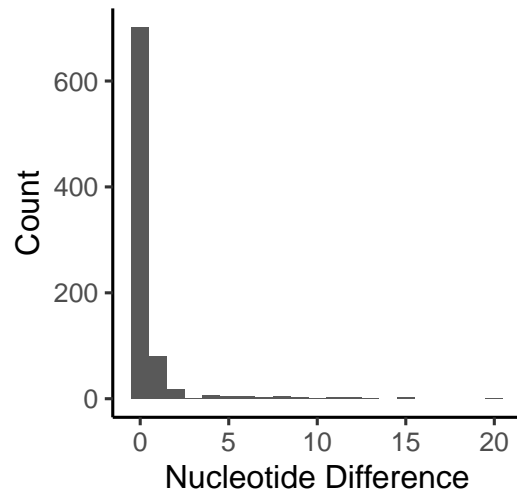
IGHV1/OR15-2*01

2 sequences assigned
No exact matches.



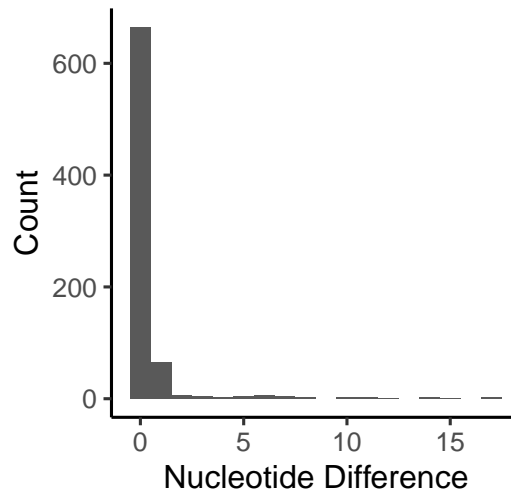
IGHV4-38-2*02_A70G

835 sequences assigned
702 (84.1%) exact matches, in which:
626 unique CDR3
6 unique J



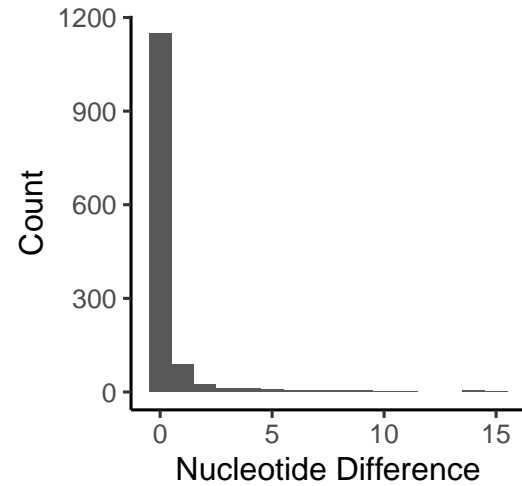
IGHV4-59*08

775 sequences assigned
665 (85.8%) exact matches, in which:
617 unique CDR3
6 unique J



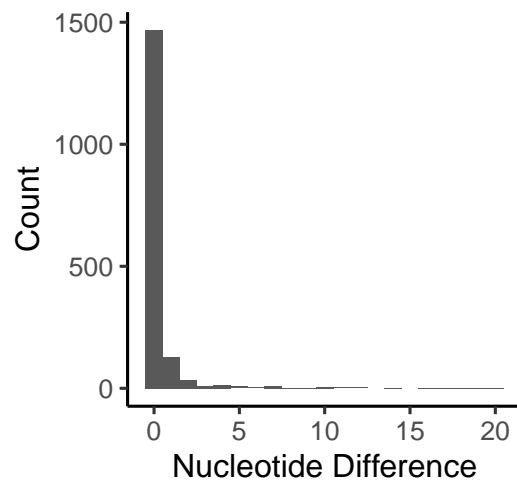
IGHV5-51*01

1320 sequences assigned
1148 (87%) exact matches, in which:
1046 unique CDR3
6 unique J



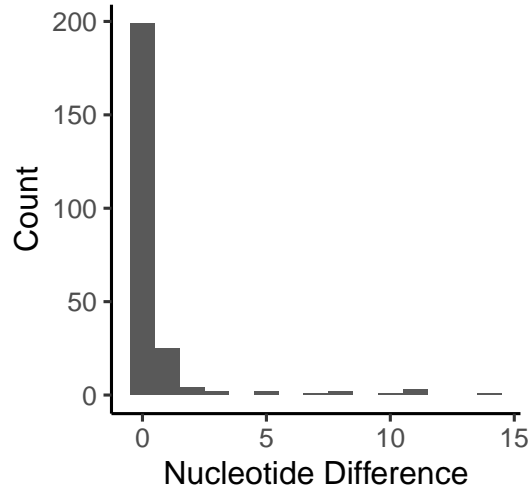
IGHV4-39*01

1696 sequences assigned
1468 (86.6%) exact matches, in which:
1317 unique CDR3
6 unique J



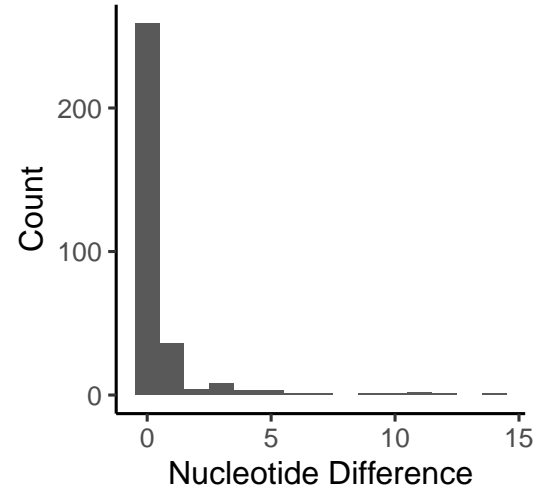
IGHV4-61*01

240 sequences assigned
199 (82.9%) exact matches, in which:
192 unique CDR3
6 unique J



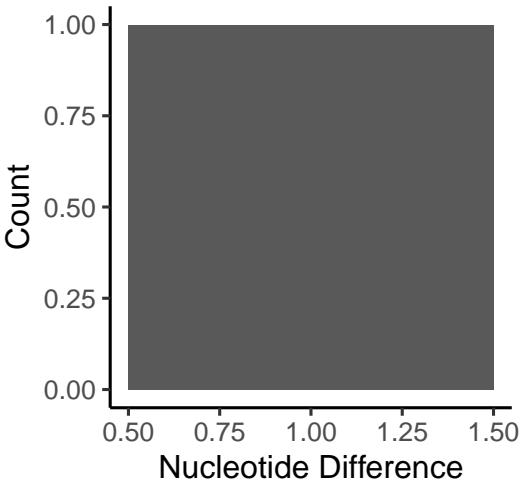
IGHV6-1*01

321 sequences assigned
259 (80.7%) exact matches, in which:
237 unique CDR3
6 unique J



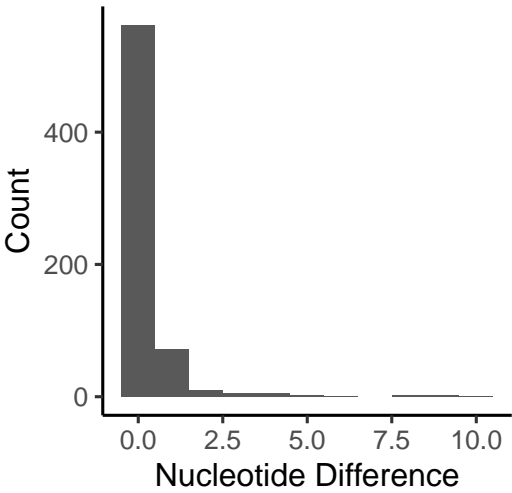
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



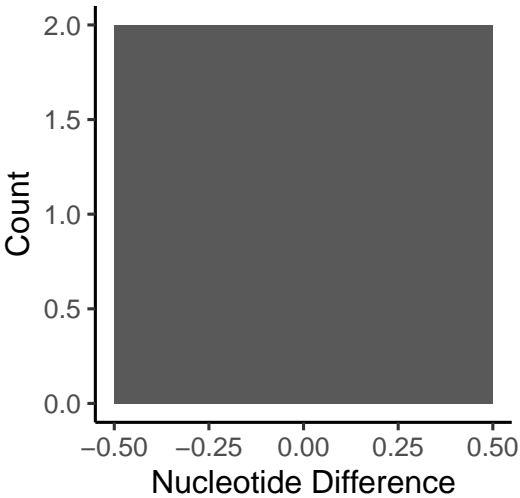
IGHV7-4-1*02

663 sequences assigned
562 (84.8%) exact matches, in which:
524 unique CDR3
6 unique J



IGHV7-81*01

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





Warning – no inferred sequences found.