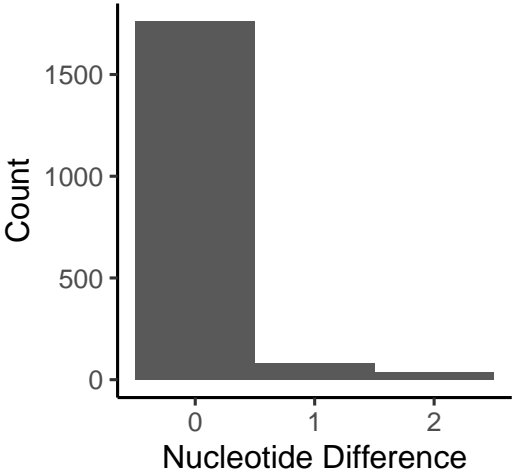


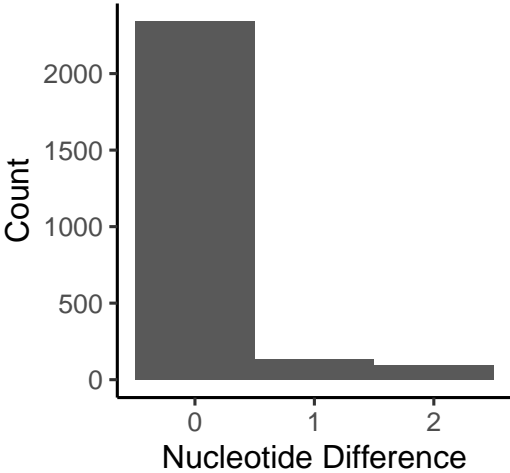
IGHV1-2*02

1877 sequences assigned
1761 (93.8%) exact matches, in which:
1758 unique CDR3
6 unique J



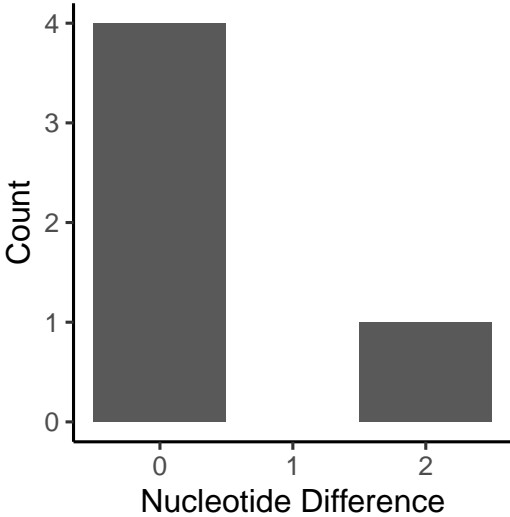
IGHV1-8*01

2567 sequences assigned
2341 (91.2%) exact matches, in which:
2335 unique CDR3
6 unique J



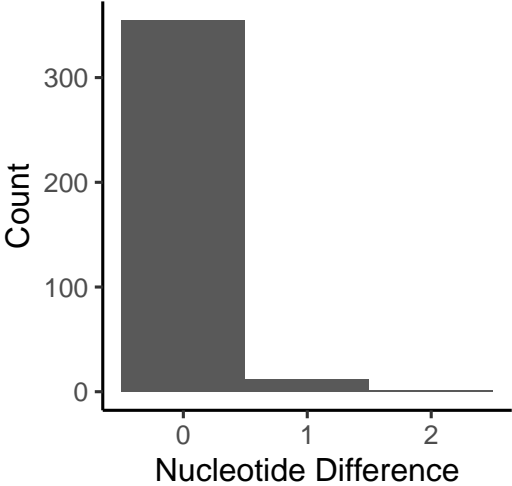
IGHV1-45*02

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



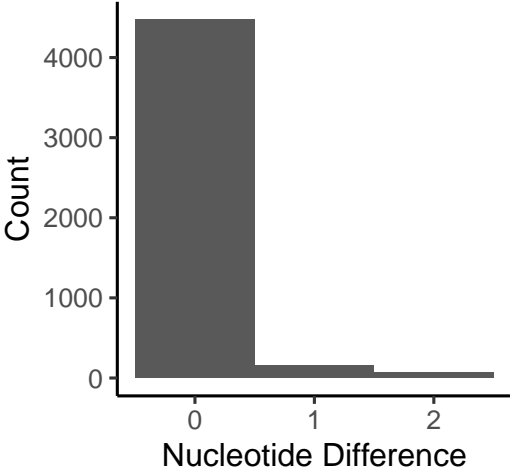
IGHV1-2*04

368 sequences assigned
355 (96.5%) exact matches, in which:
355 unique CDR3
6 unique J



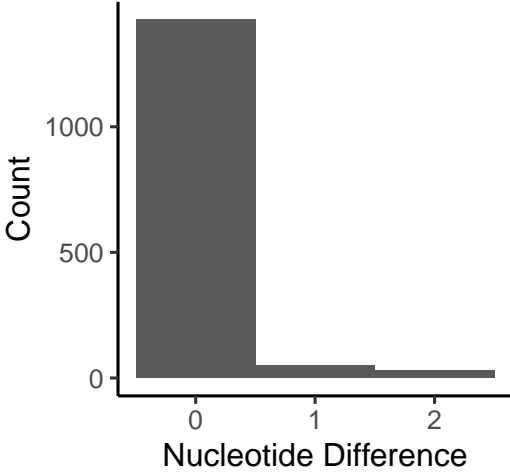
IGHV1-18*01

4700 sequences assigned
4472 (95.1%) exact matches, in which:
4468 unique CDR3
6 unique J



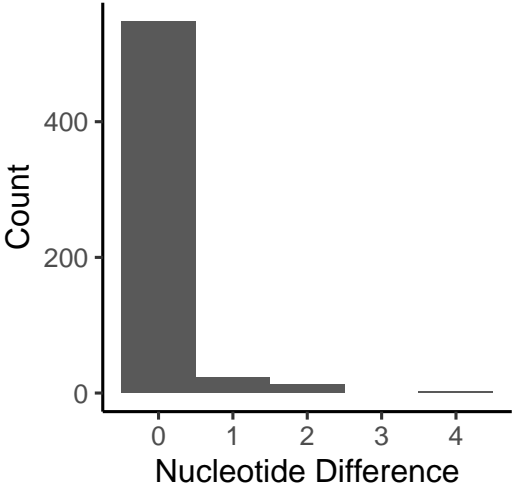
IGHV1-46*01

1506 sequences assigned
1426 (94.7%) exact matches, in which:
1426 unique CDR3
6 unique J



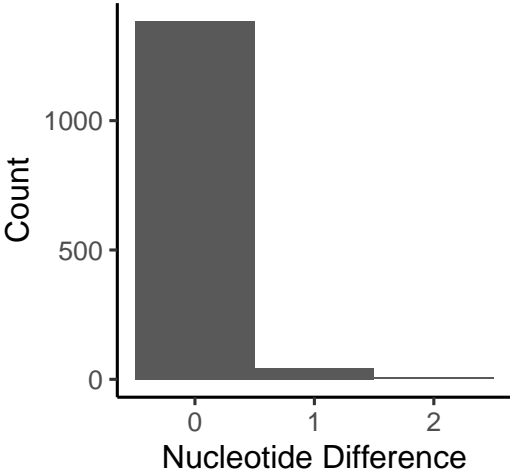
IGHV1-3*01_05

586 sequences assigned
548 (93.5%) exact matches, in which:
548 unique CDR3
6 unique J



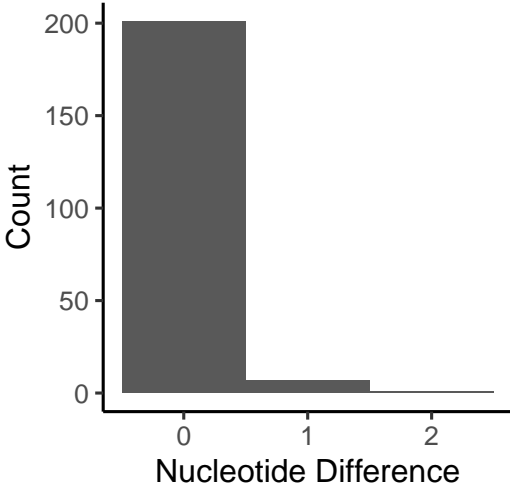
IGHV1-24*01

1435 sequences assigned
1385 (96.5%) exact matches, in which:
1383 unique CDR3
6 unique J



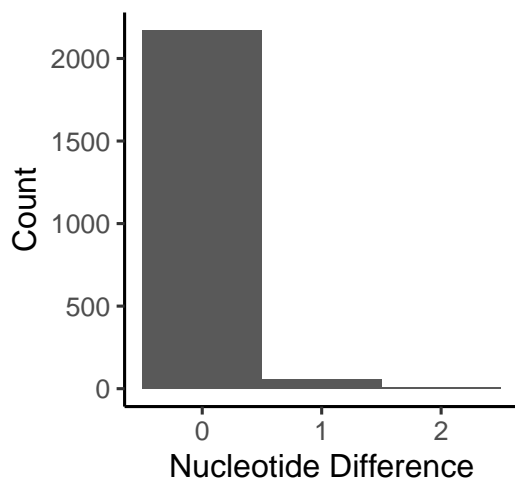
IGHV1-58*02

209 sequences assigned
201 (96.2%) exact matches, in which:
201 unique CDR3
5 unique J



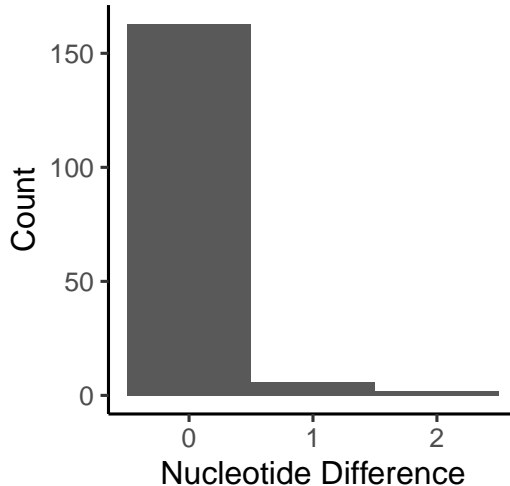
IGHV1-69*04_09

2235 sequences assigned
2170 (97.1%) exact matches, in which:
2170 unique CDR3
6 unique J



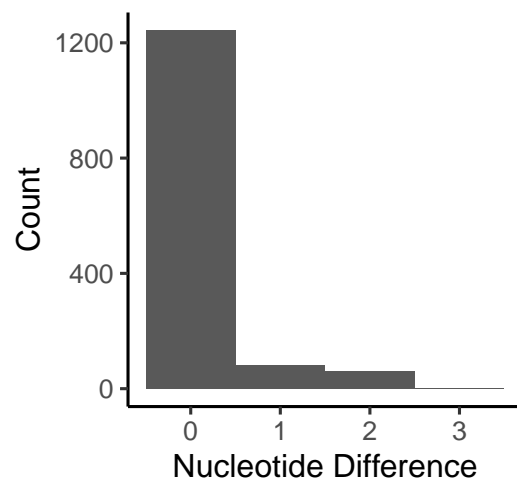
IGHV2-26*01

171 sequences assigned
163 (95.3%) exact matches, in which:
163 unique CDR3
5 unique J



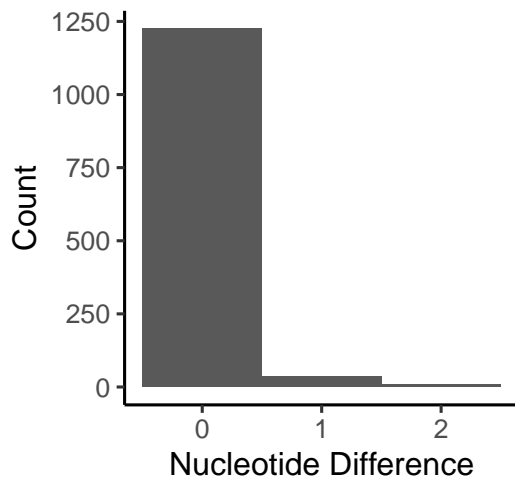
IGHV3-7*01

1385 sequences assigned
1243 (89.7%) exact matches, in which:
1216 unique CDR3
6 unique J



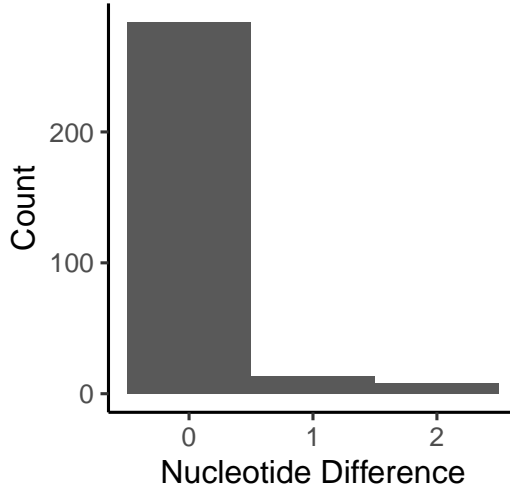
IGHV1-69*08_C191T

1269 sequences assigned
1225 (96.5%) exact matches, in which:
1224 unique CDR3
6 unique J



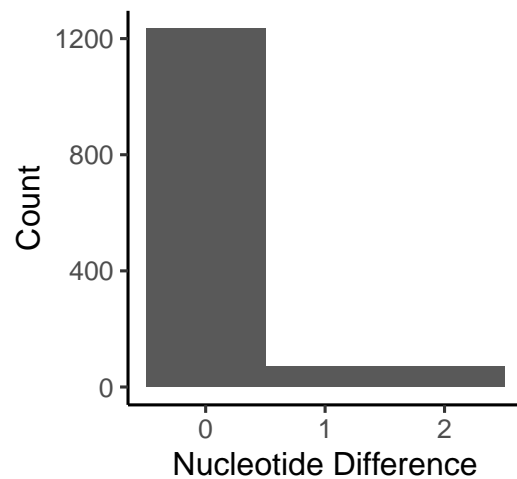
IGHV2-70*11_15

305 sequences assigned
284 (93.1%) exact matches, in which:
283 unique CDR3
4 unique J



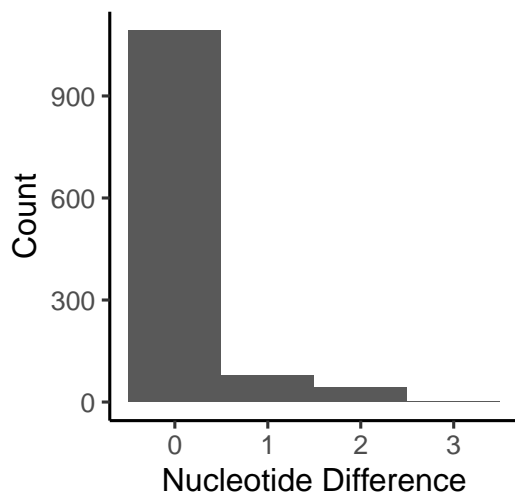
IGHV3-7*03

1374 sequences assigned
1234 (89.8%) exact matches, in which:
1209 unique CDR3
6 unique J



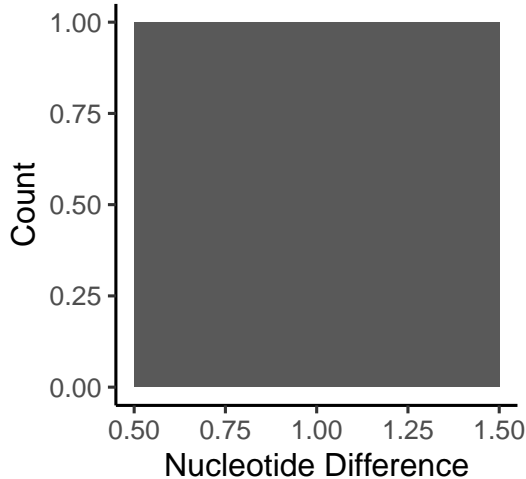
IGHV2-5*02

1215 sequences assigned
1093 (90%) exact matches, in which:
1088 unique CDR3
6 unique J



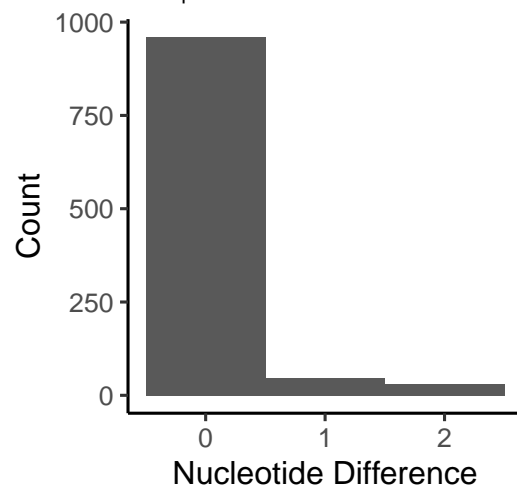
IGHV2-70D*04

1 sequences assigned
No exact matches.



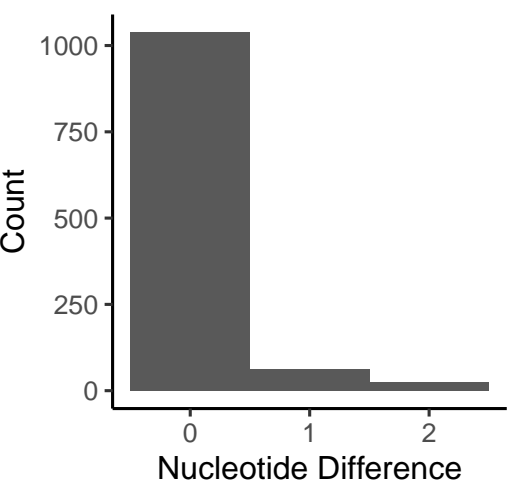
IGHV3-9*01

1038 sequences assigned
960 (92.5%) exact matches, in which:
950 unique CDR3
6 unique J



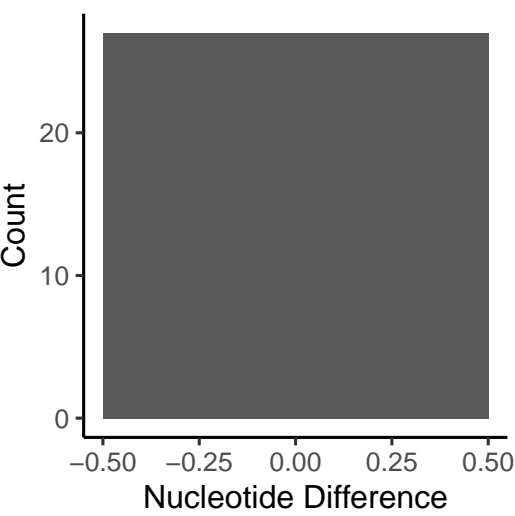
IGHV3-11*01

1126 sequences assigned
1038 (92.2%) exact matches, in which:
1023 unique CDR3
6 unique J



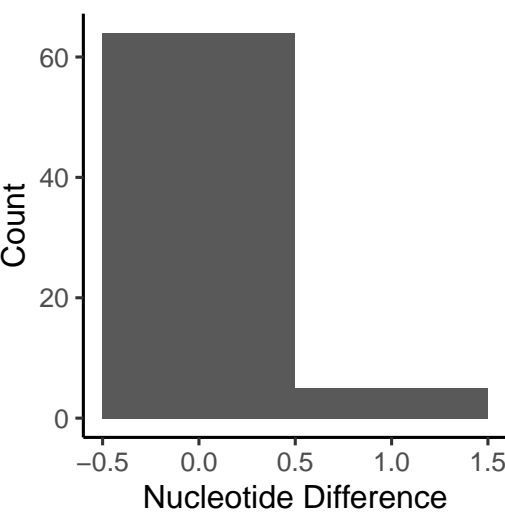
IGHV3-13*05

27 sequences assigned
27 (100%) exact matches, in which:
27 unique CDR3
5 unique J



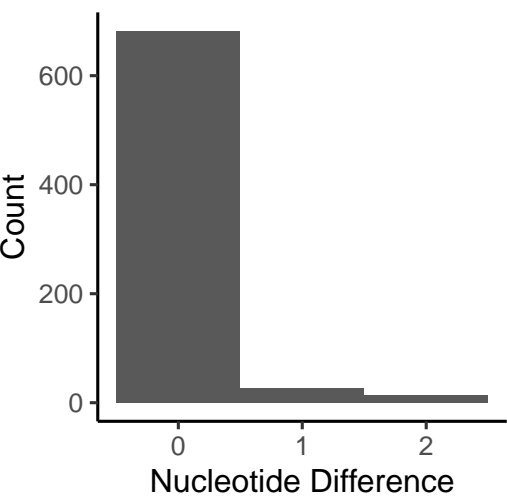
IGHV3-20*01_02

69 sequences assigned
64 (92.8%) exact matches, in which:
63 unique CDR3
5 unique J



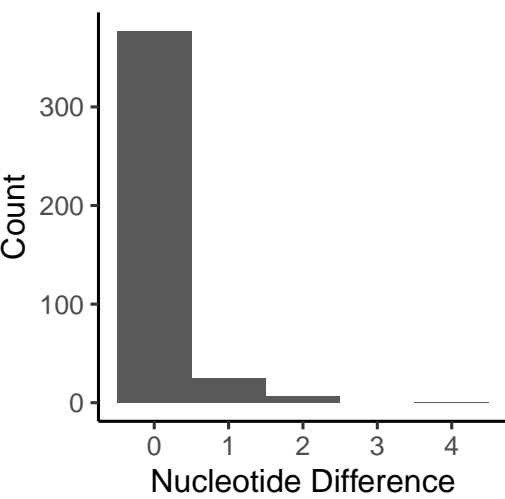
IGHV3-11*06

722 sequences assigned
682 (94.5%) exact matches, in which:
666 unique CDR3
6 unique J



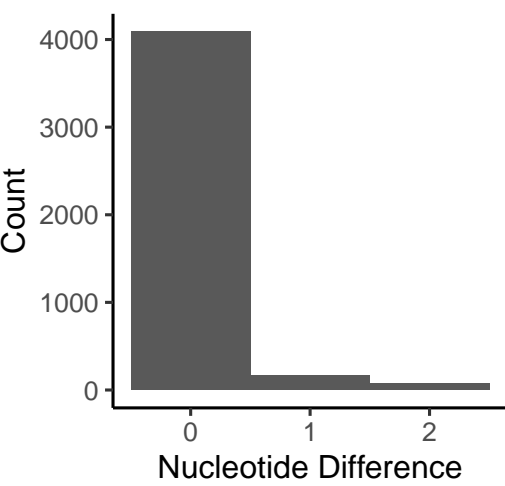
IGHV3-15*01_02

410 sequences assigned
377 (92%) exact matches, in which:
375 unique CDR3
6 unique J



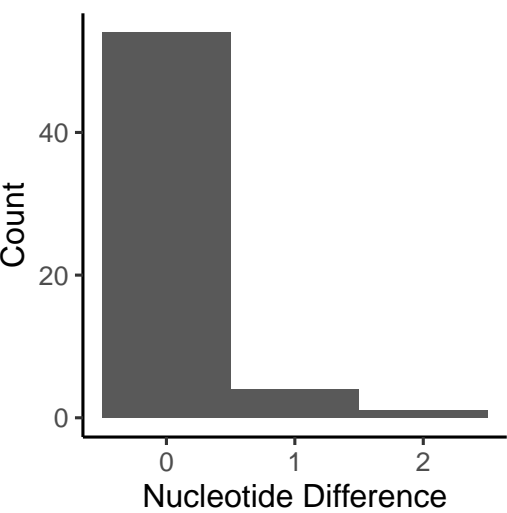
IGHV3-21*01_02

4333 sequences assigned
4089 (94.4%) exact matches, in which:
3973 unique CDR3
6 unique J



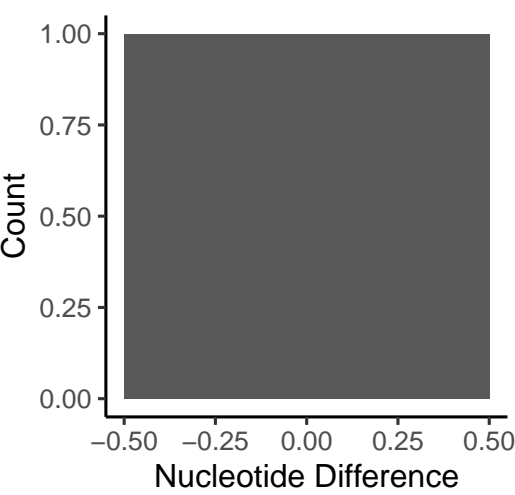
IGHV3-13*01

59 sequences assigned
54 (91.5%) exact matches, in which:
52 unique CDR3
5 unique J



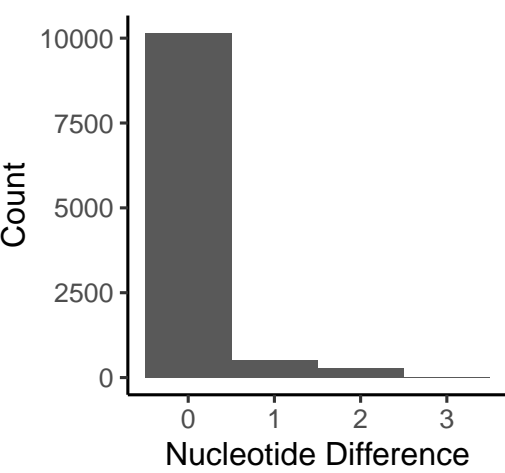
IGHV3-19*01

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



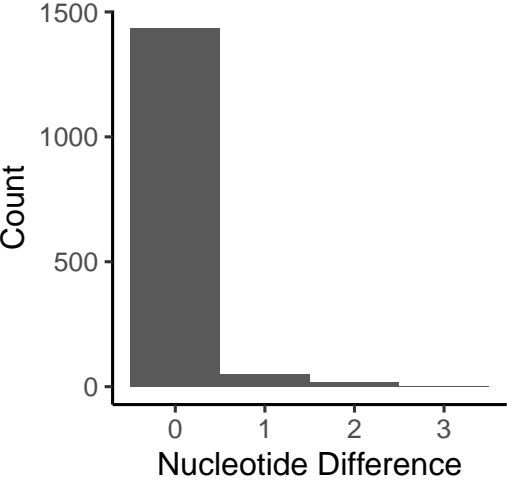
IGHV3-23*01_04

10959 sequences assigned
10158 (92.7%) exact matches, in which:
9878 unique CDR3
6 unique J



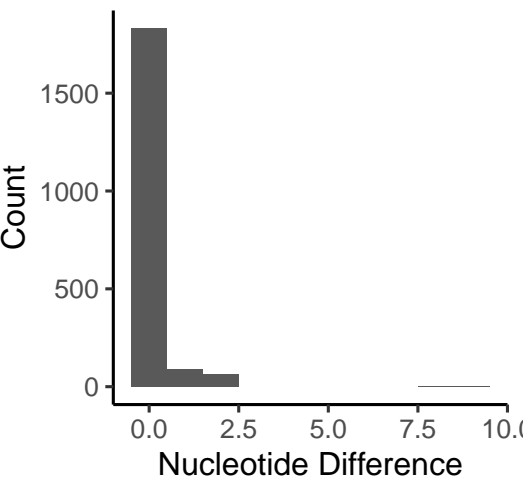
IGHV3-30-3*01

1506 sequences assigned
1434 (95.2%) exact matches, in which:
1417 unique CDR3
6 unique J



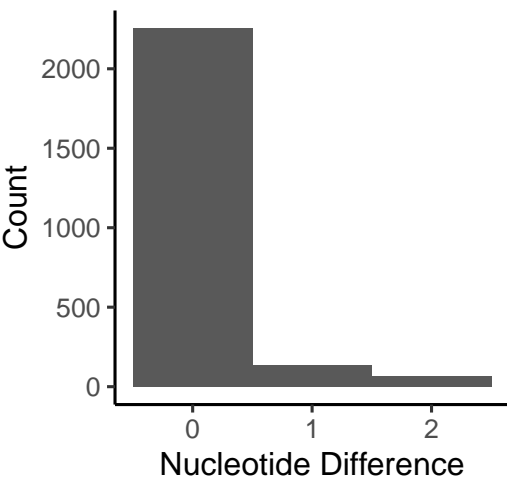
IGHV3-48*02

1983 sequences assigned
1831 (92.3%) exact matches, in which:
1777 unique CDR3
6 unique J



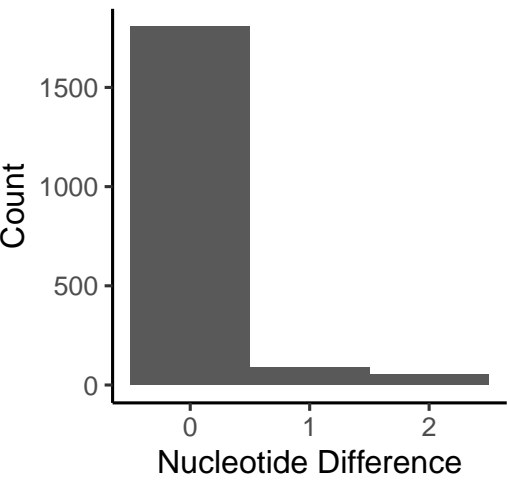
IGHV3-53*01_02

2459 sequences assigned
2254 (91.7%) exact matches, in which:
2183 unique CDR3
6 unique J



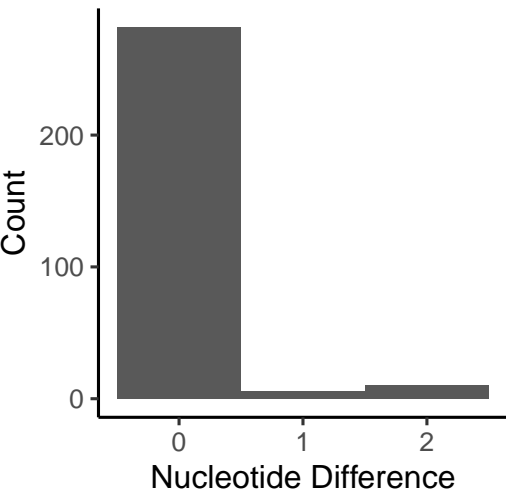
IGHV3-33*01

1945 sequences assigned
1806 (92.9%) exact matches, in which:
1777 unique CDR3
6 unique J



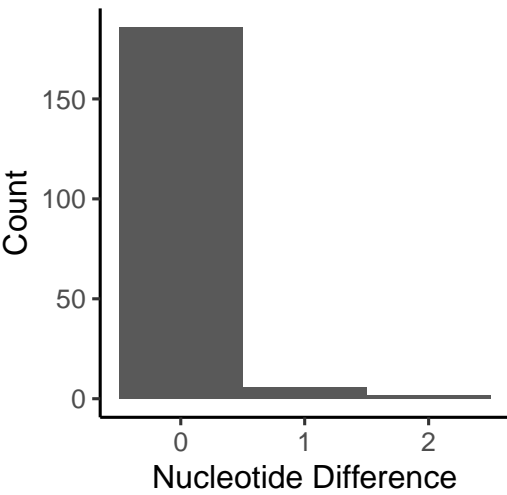
IGHV3-49*03_05

298 sequences assigned
282 (94.6%) exact matches, in which:
279 unique CDR3
5 unique J



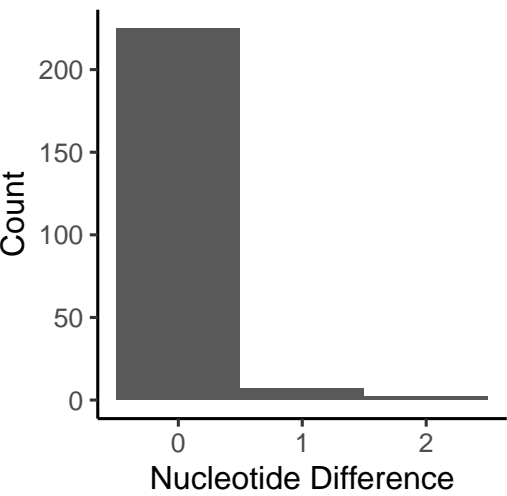
IGHV3-64*01

194 sequences assigned
186 (95.9%) exact matches, in which:
184 unique CDR3
5 unique J



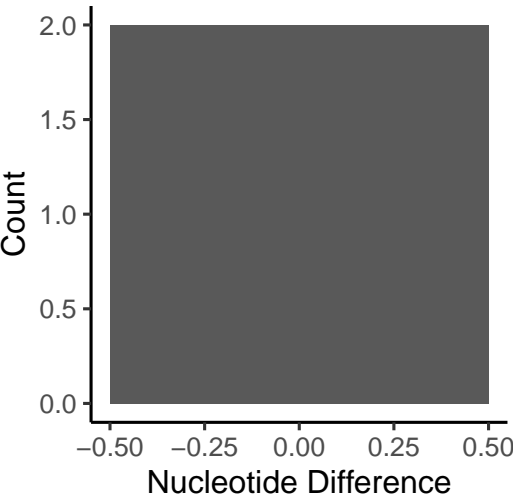
IGHV3-43*01

234 sequences assigned
225 (96.2%) exact matches, in which:
223 unique CDR3
6 unique J



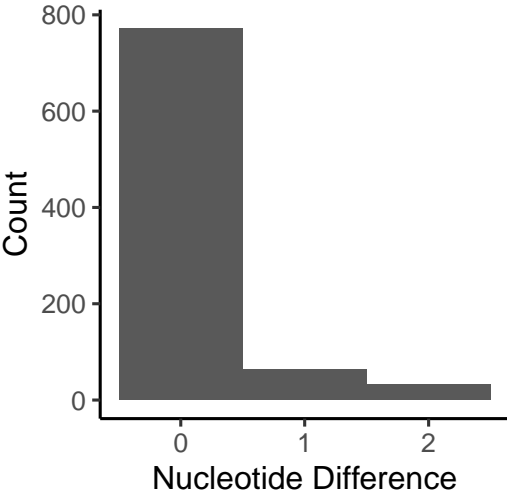
IGHV3-52*01_03

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



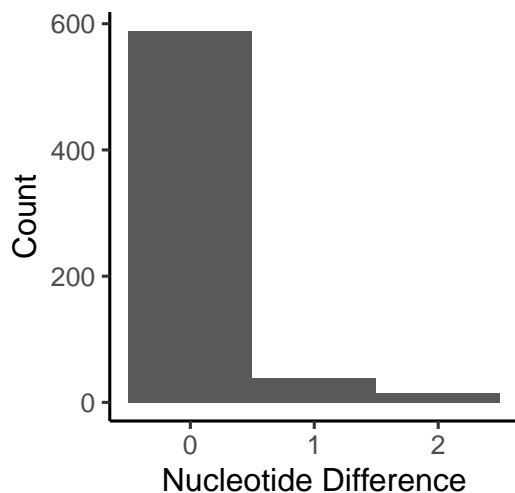
IGHV3-66*01

867 sequences assigned
772 (89%) exact matches, in which:
745 unique CDR3
6 unique J



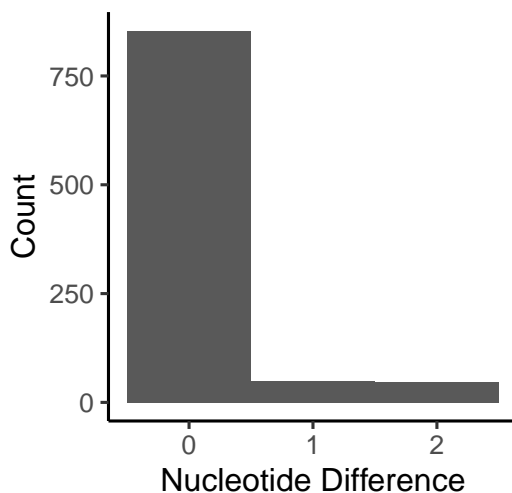
IGHV3-66*02

643 sequences assigned
589 (91.6%) exact matches, in which:
576 unique CDR3
6 unique J



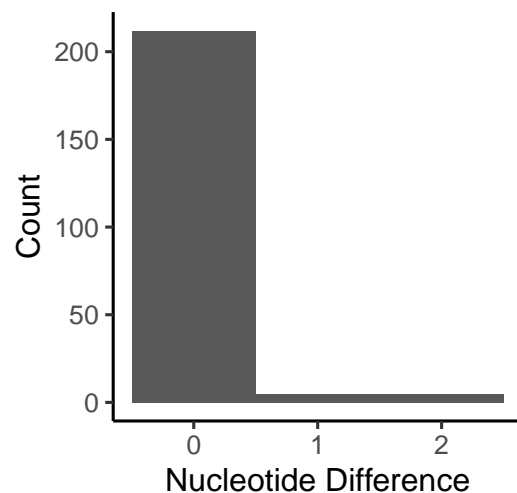
IGHV3-74*01_02

950 sequences assigned
854 (89.9%) exact matches, in which:
836 unique CDR3
6 unique J



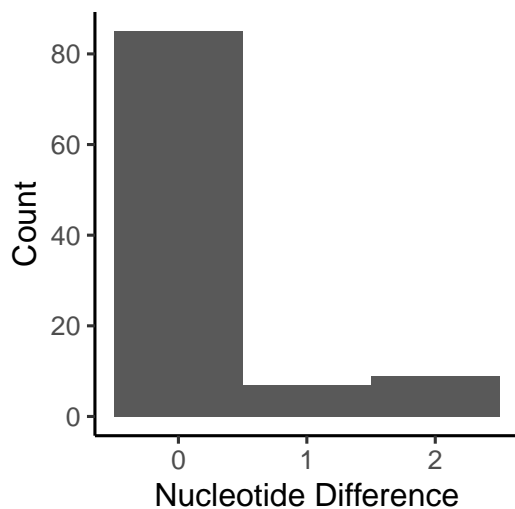
IGHV4-4*02_03

222 sequences assigned
212 (95.5%) exact matches, in which:
209 unique CDR3
6 unique J



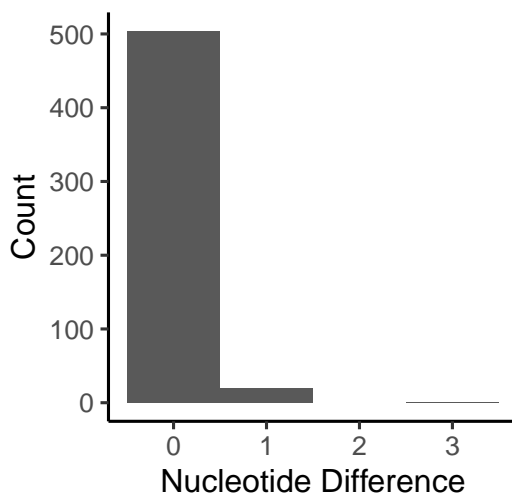
IGHV3-72*01

101 sequences assigned
85 (84.2%) exact matches, in which:
84 unique CDR3
6 unique J



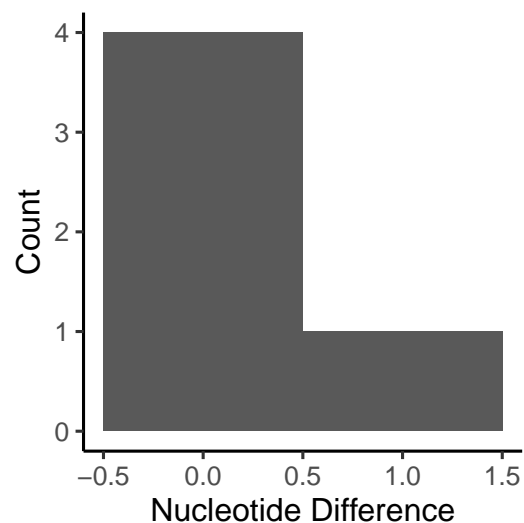
IGHV3-64D*09

525 sequences assigned
504 (96%) exact matches, in which:
495 unique CDR3
6 unique J



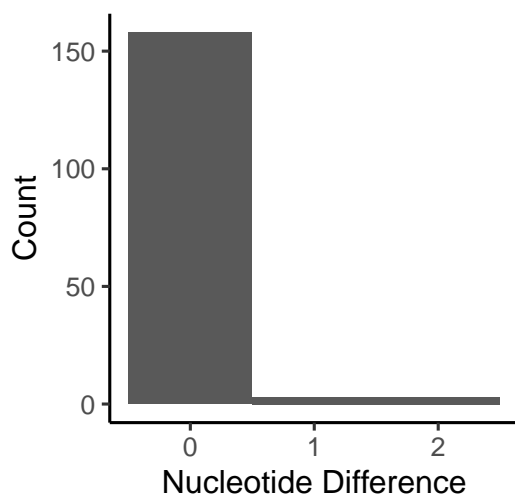
IGHV4-28*01_07

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



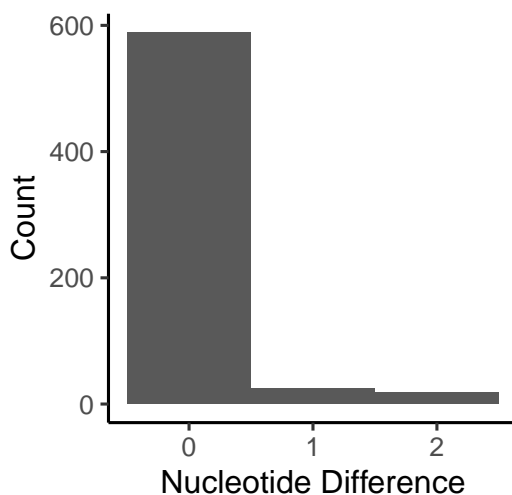
IGHV3-73*01_02

164 sequences assigned
158 (96.3%) exact matches, in which:
154 unique CDR3
5 unique J



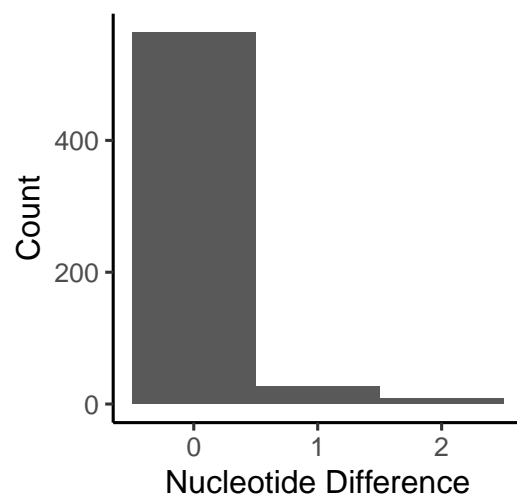
IGHV4-4*07

632 sequences assigned
589 (93.2%) exact matches, in which:
580 unique CDR3
6 unique J



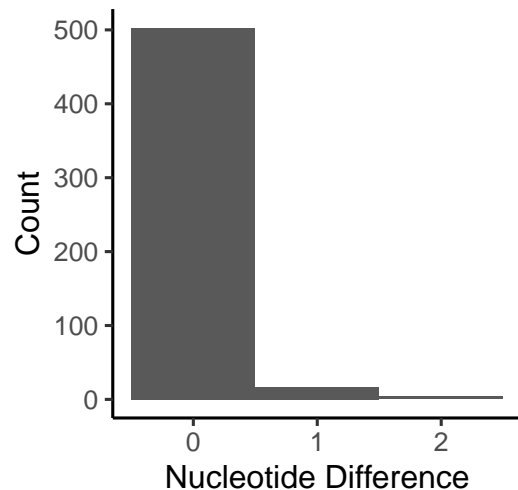
IGHV4-30-4*01

599 sequences assigned
564 (94.2%) exact matches, in which:
558 unique CDR3
6 unique J



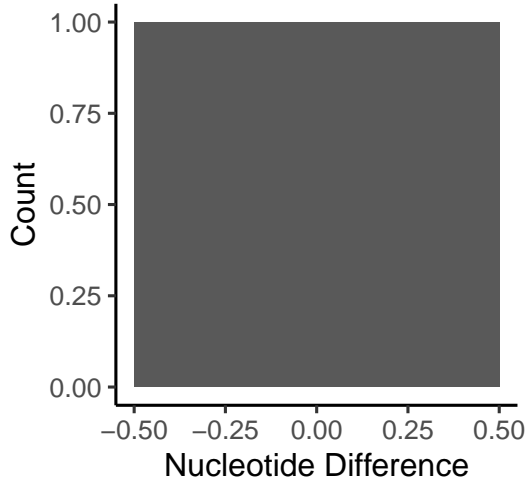
IGHV4-30-2*01

524 sequences assigned
503 (96%) exact matches, in which:
500 unique CDR3
6 unique J



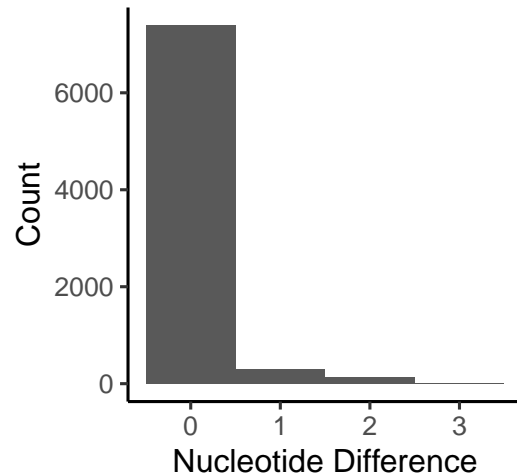
IGHV4-38-2*01

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



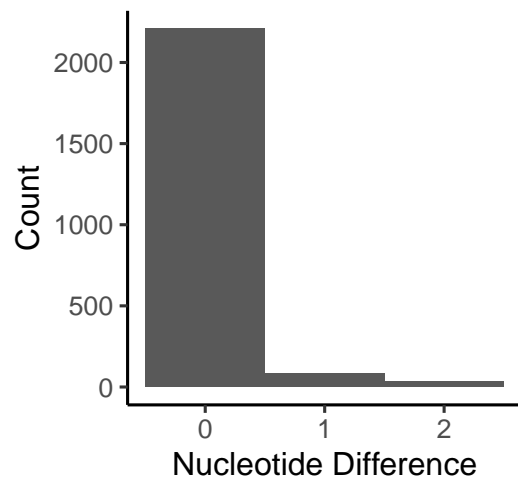
IGHV4-59*02_G88A

7812 sequences assigned
7390 (94.6%) exact matches, in which:
7280 unique CDR3
6 unique J



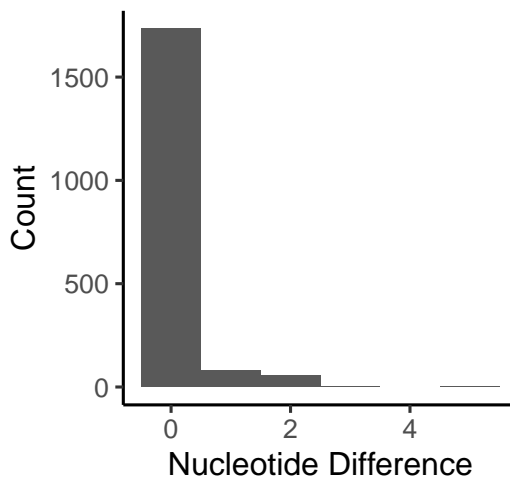
IGHV4-31*02

2326 sequences assigned
2208 (94.9%) exact matches, in which:
2193 unique CDR3
6 unique J



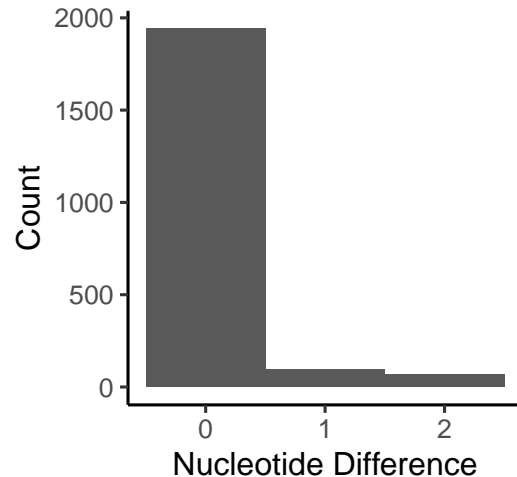
IGHV4-39*02_C258G

1871 sequences assigned
1734 (92.7%) exact matches, in which:
1706 unique CDR3
6 unique J



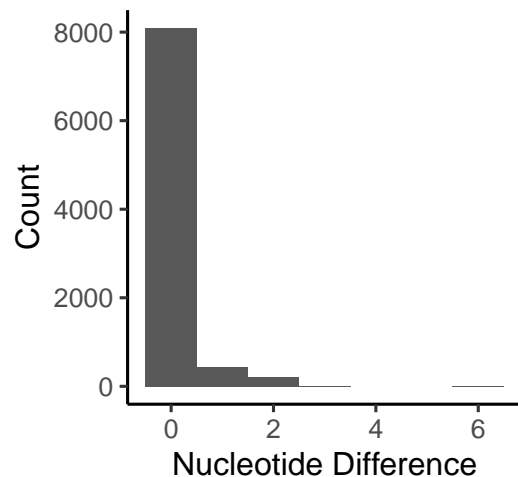
IGHV4-61*02

2100 sequences assigned
1941 (92.4%) exact matches, in which:
1911 unique CDR3
6 unique J



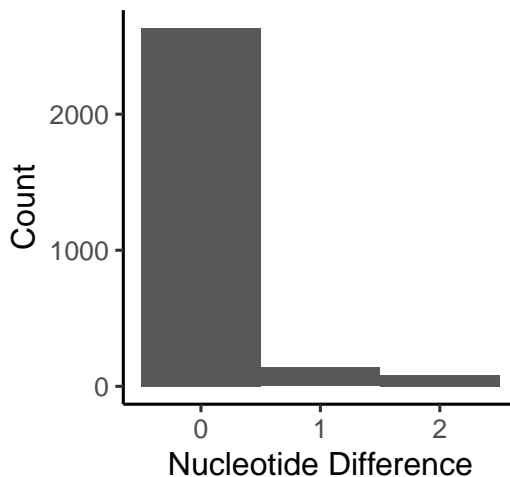
IGHV4-34*01_02

8731 sequences assigned
8092 (92.7%) exact matches, in which:
7989 unique CDR3
6 unique J



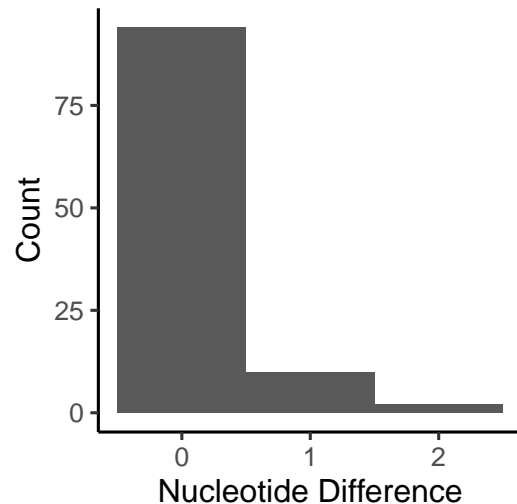
IGHV4-59*08

2853 sequences assigned
2633 (92.3%) exact matches, in which:
2563 unique CDR3
6 unique J



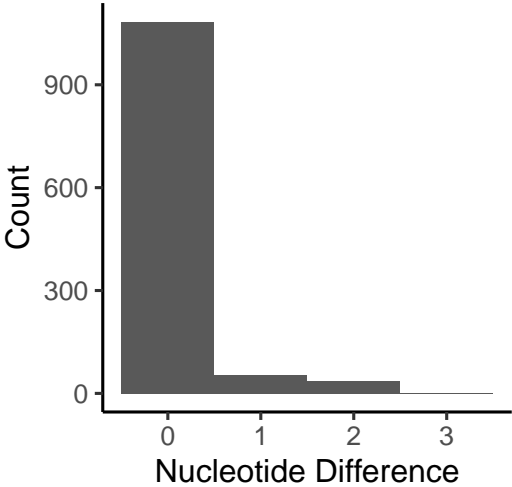
IGHV5-10-1*01_03

106 sequences assigned
94 (88.7%) exact matches, in which:
94 unique CDR3
5 unique J



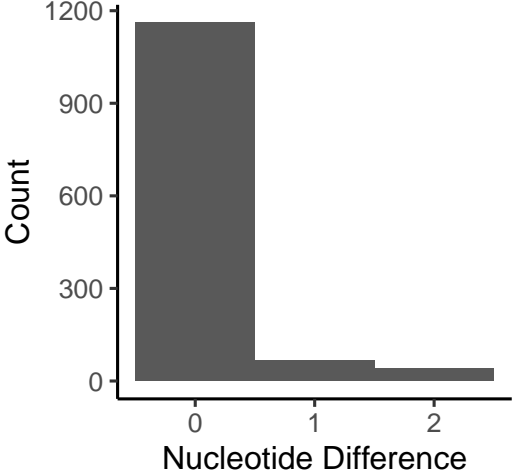
IGHV5–51*07_A128G

1174 sequences assigned
1084 (92.3%) exact matches, in which:
1083 unique CDR3
6 unique J



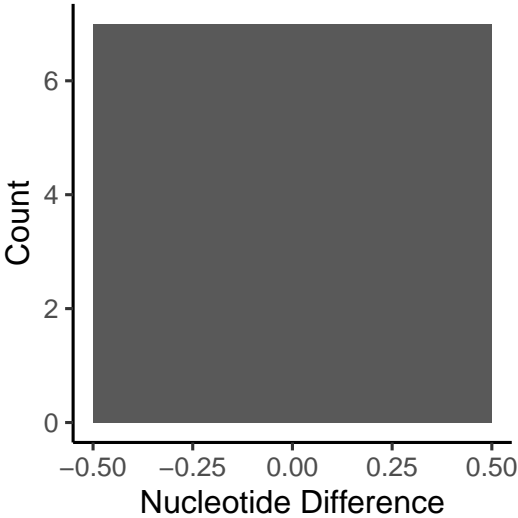
IGHV6–1*01_02

1267 sequences assigned
1161 (91.6%) exact matches, in which:
1160 unique CDR3
6 unique J



IGHV7–4–1*01

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





Warning – no inferred sequences found.