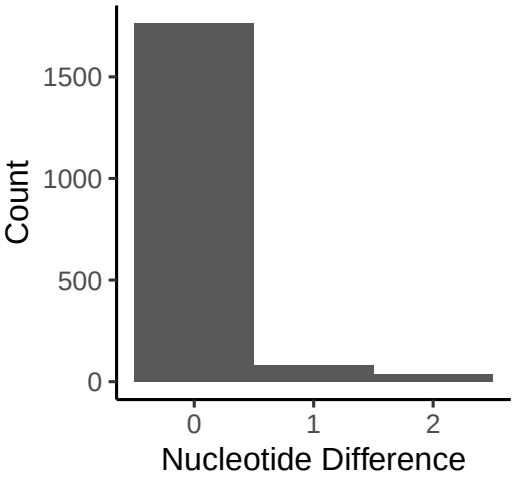
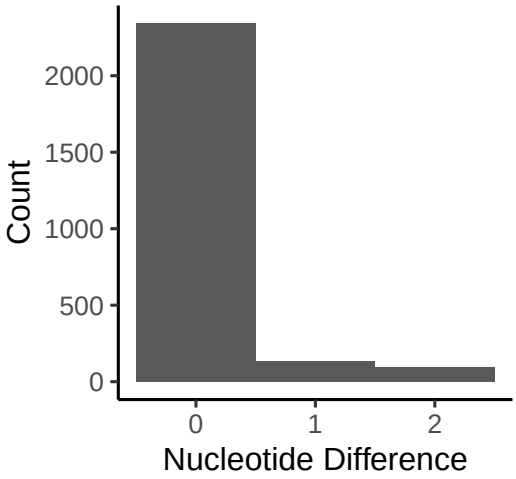
IGHV1−2*02

1879 sequences assigned
1763 (93.8%) exact matches, in which:
1757 unique CDR3
6 unique J



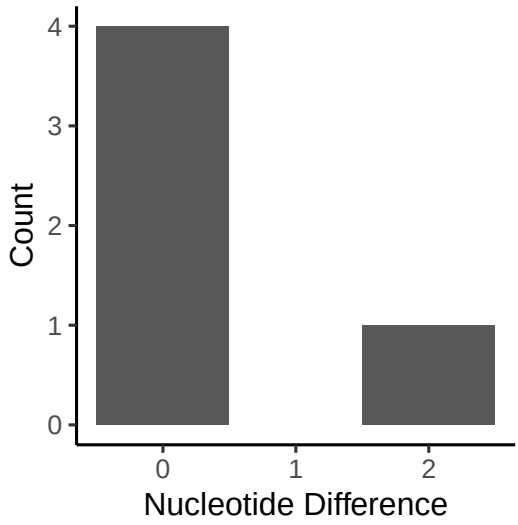
IGHV1−8*01

2567 sequences assigned
2342 (91.2%) exact matches, in which:
2331 unique CDR3
6 unique J



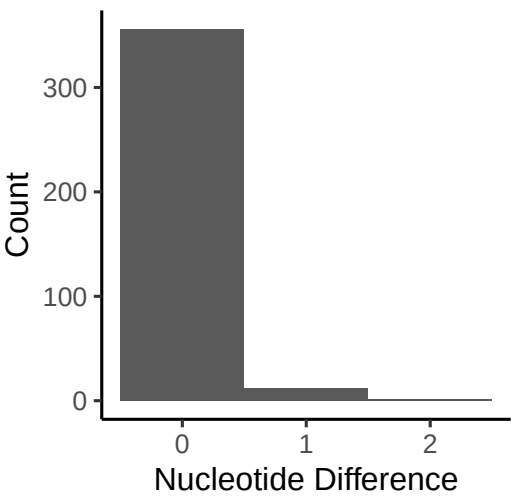
IGHV1−45*02

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



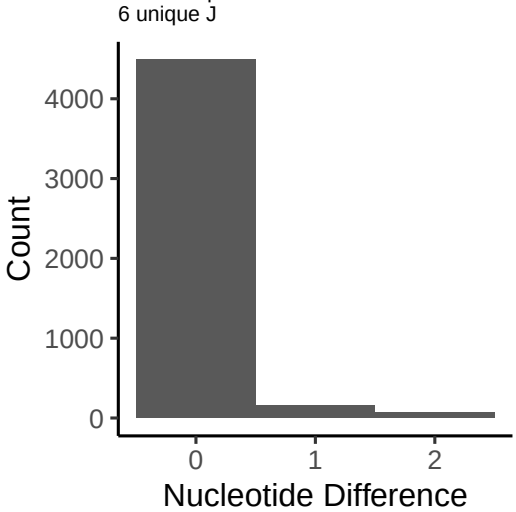
IGHV1−2*04

369 sequences assigned
356 (96.5%) exact matches, in which:
355 unique CDR3
6 unique J



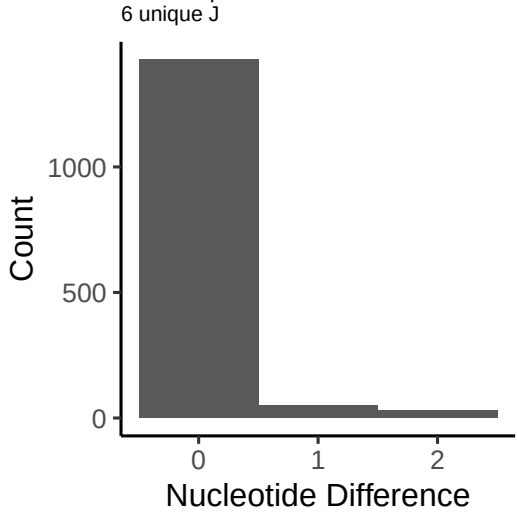
IGHV1−18*01

4716 sequences assigned
4489 (95.2%) exact matches, in which:
4473 unique CDR3
6 unique J



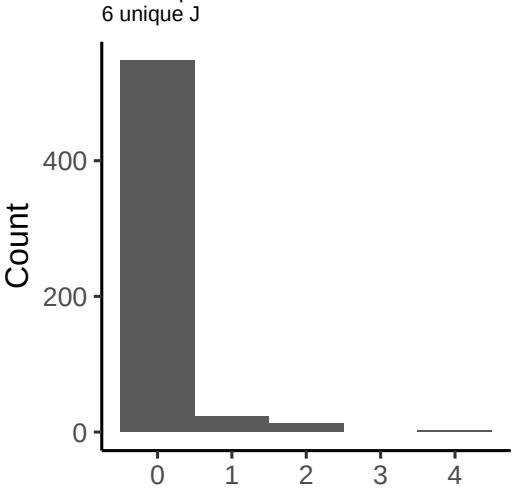
IGHV1−46*01

1507 sequences assigned
1427 (94.7%) exact matches, in which:
1425 unique CDR3
6 unique J



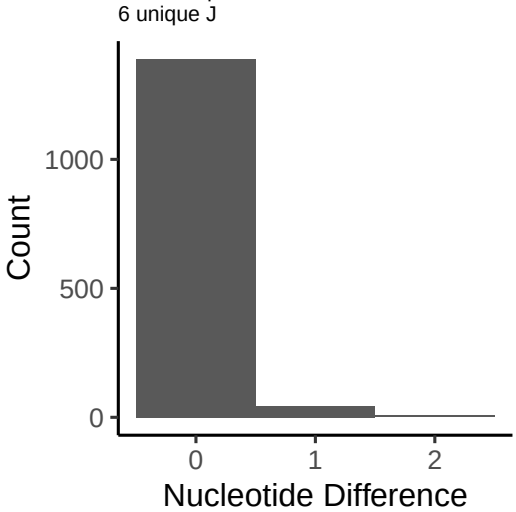
IGHV1−3*01_05

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



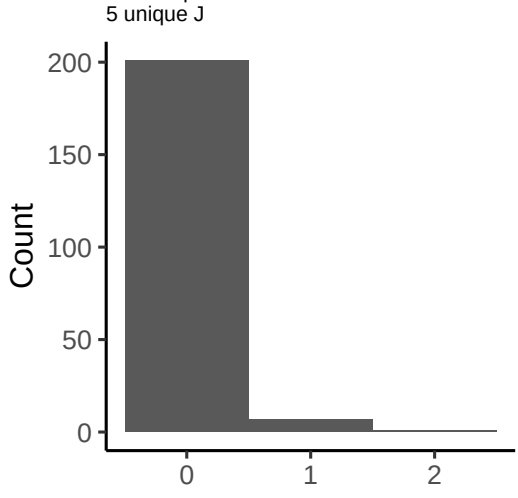
IGHV1−24*01

1439 sequences assigned
1389 (96.5%) exact matches, in which:
1382 unique CDR3
6 unique J



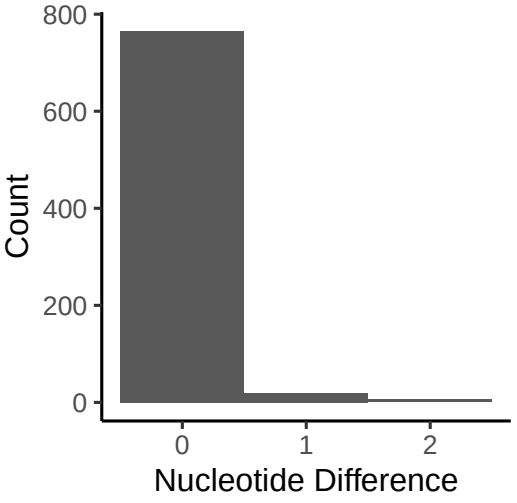
IGHV1−58*02

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



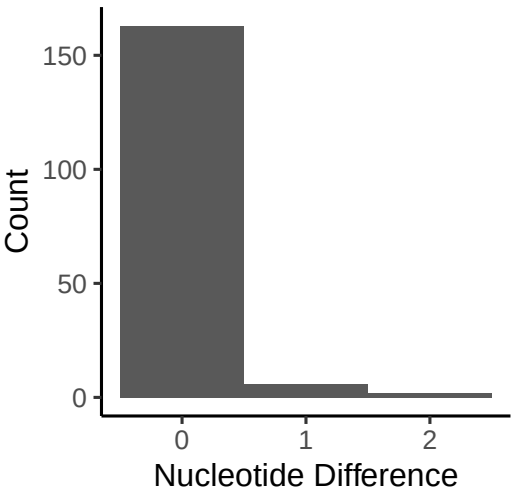
IGHV1−69*02

792 sequences assigned
766 (96.7%) exact matches, in which:
763 unique CDR3
6 unique J



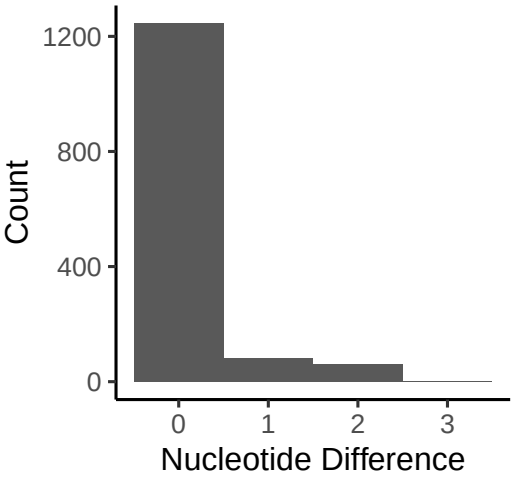
IGHV2−26*01

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



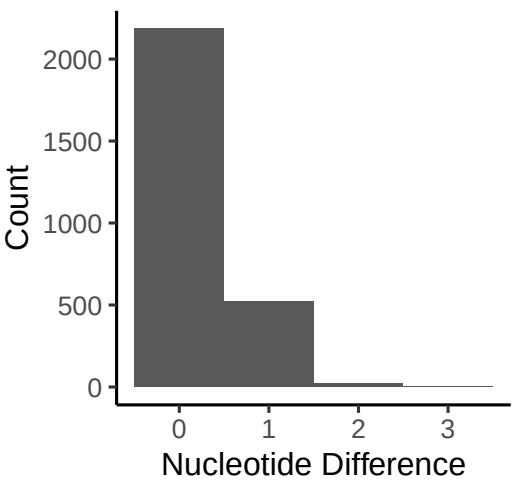
IGHV3−7*01

1387 sequences assigned
1245 (89.8%) exact matches, in which:
1215 unique CDR3
6 unique J



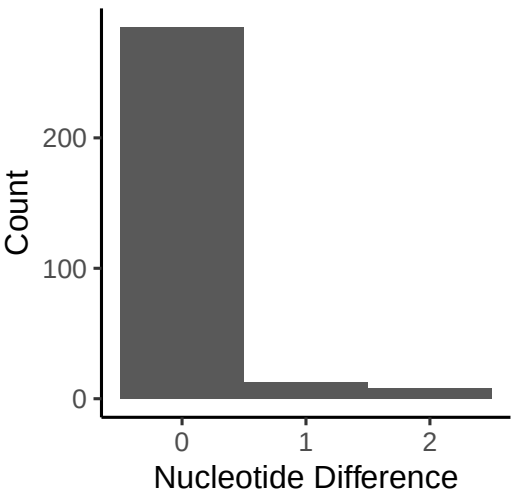
IGHV1−69*04_09

2735 sequences assigned
2185 (79.9%) exact matches, in which:
2175 unique CDR3
6 unique J



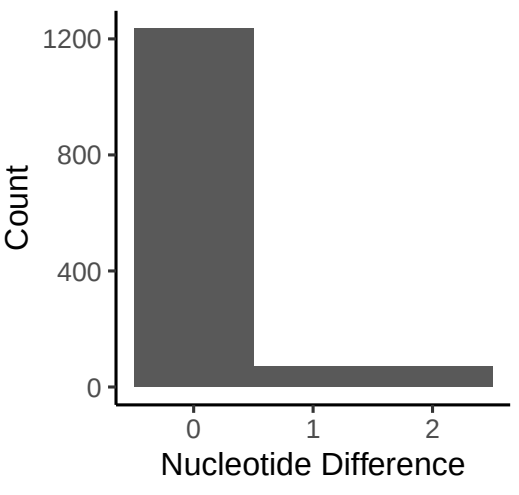
IGHV2−70*11_15

306 sequences assigned
285 (93.1%) exact matches, in which:
284 unique CDR3
4 unique J



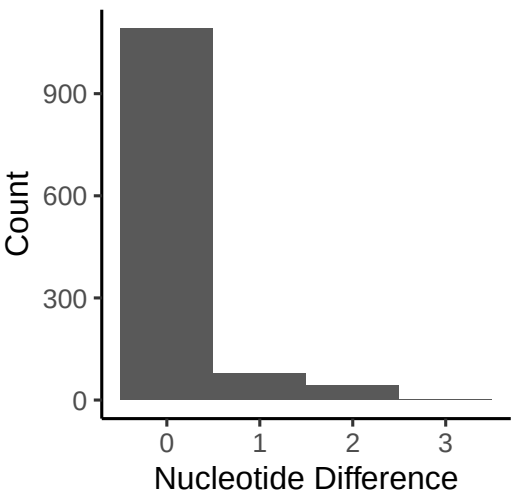
IGHV3−7*03

1375 sequences assigned
1235 (89.8%) exact matches, in which:
1209 unique CDR3
6 unique J



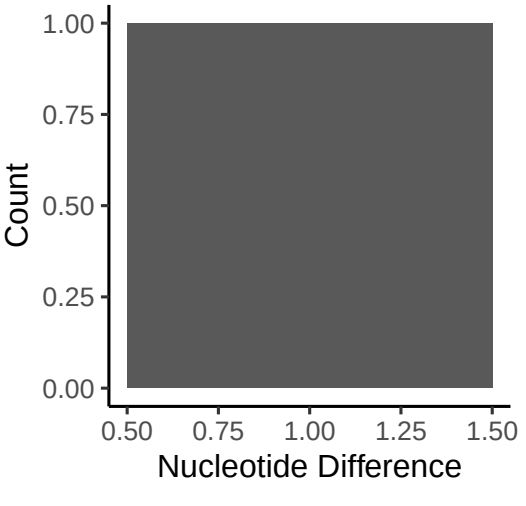
IGHV2−5*02

1214 sequences assigned
1092 (90%) exact matches, in which:
1087 unique CDR3
6 unique J



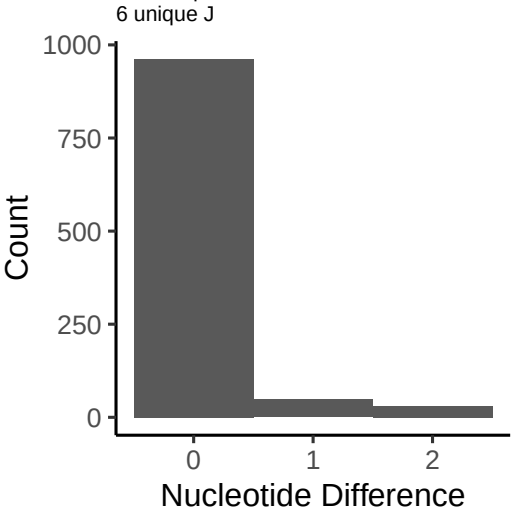
IGHV2−70D*04

1 sequences assigned
No exact matches.



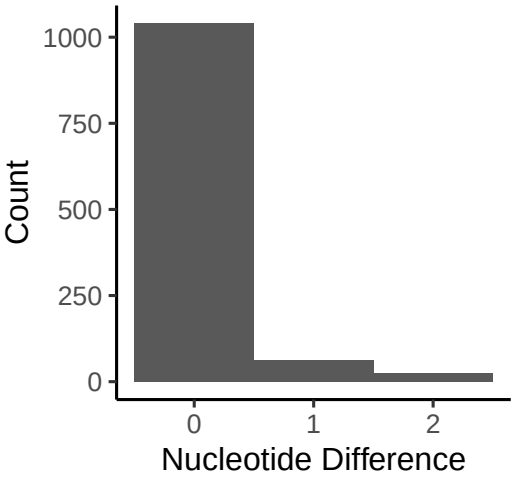
IGHV3−9*01

1041 sequences assigned
962 (92.4%) exact matches, in which:
949 unique CDR3
6 unique J



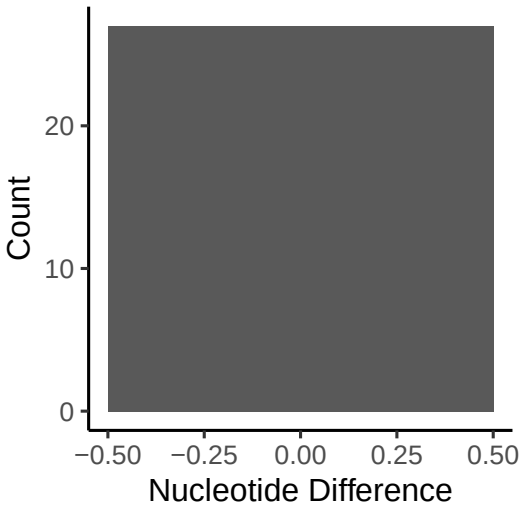
IGHV3−11*01

1128 sequences assigned
1040 (92.2%) exact matches, in which:
1022 unique CDR3
6 unique J



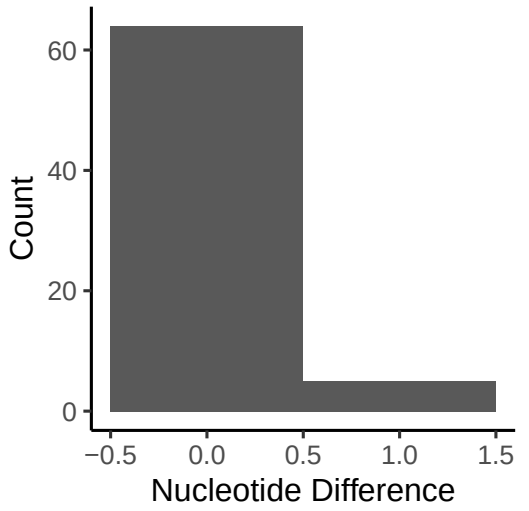
IGHV3−13*05

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



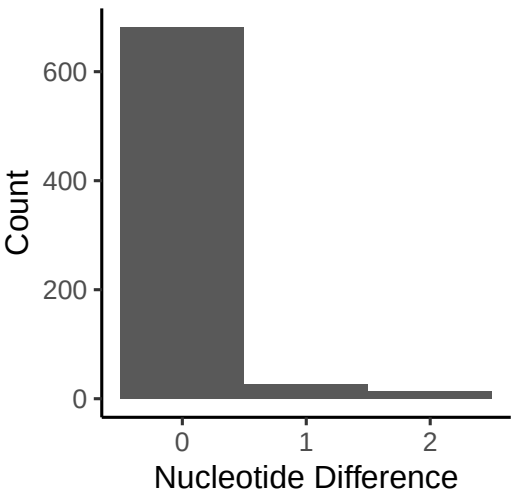
IGHV3−20*01_02

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



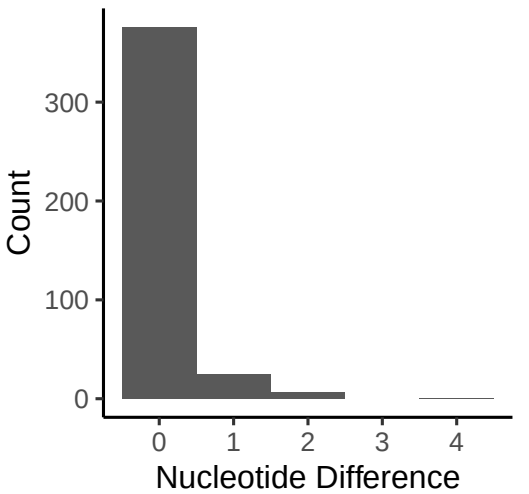
IGHV3−11*06

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



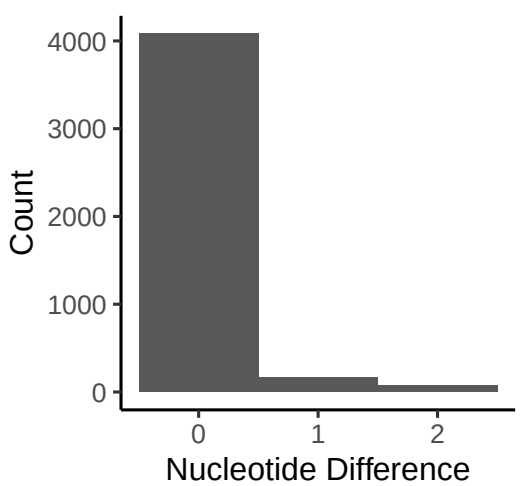
IGHV3−15*01_02

409 sequences assigned
376 (91.9%) exact matches, in which:
374 unique CDR3
6 unique J



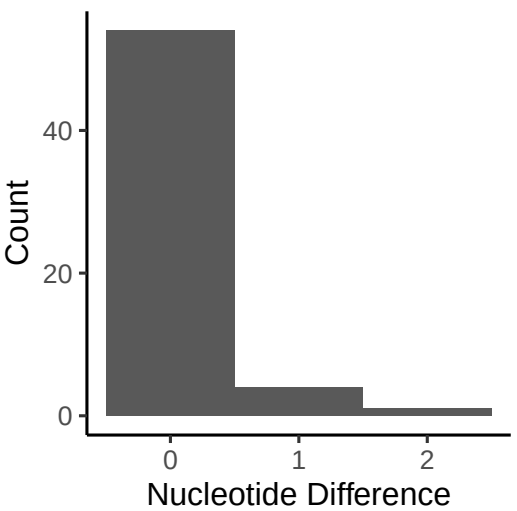
IGHV3−21*01_02

4325 sequences assigned
4082 (94.4%) exact matches, in which:
3960 unique CDR3
6 unique J



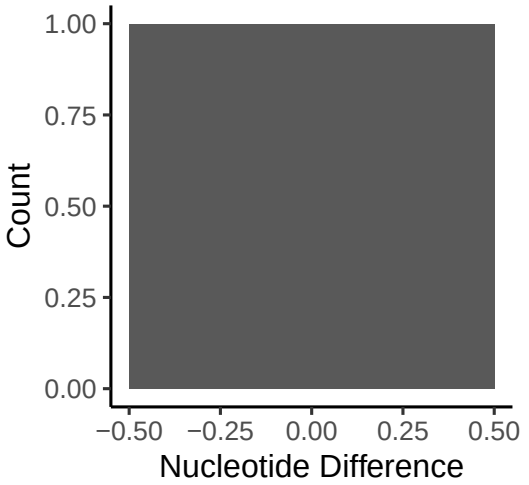
IGHV3−13*01

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



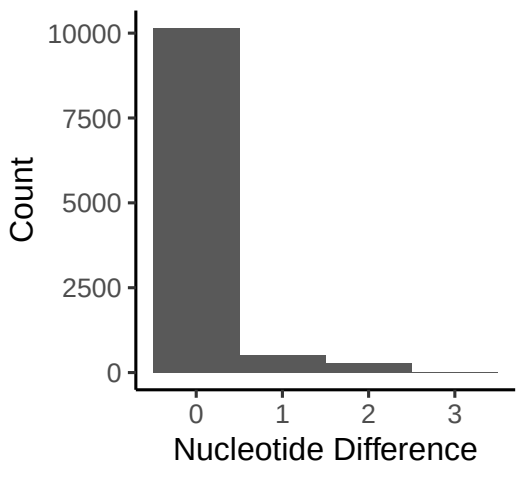
IGHV3−19*01

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



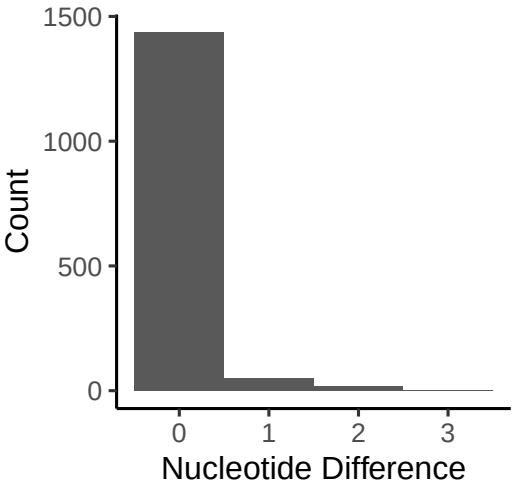
IGHV3−23*01_04

10955 sequences assigned
10157 (92.7%) exact matches, in which:
9852 unique CDR3
6 unique J



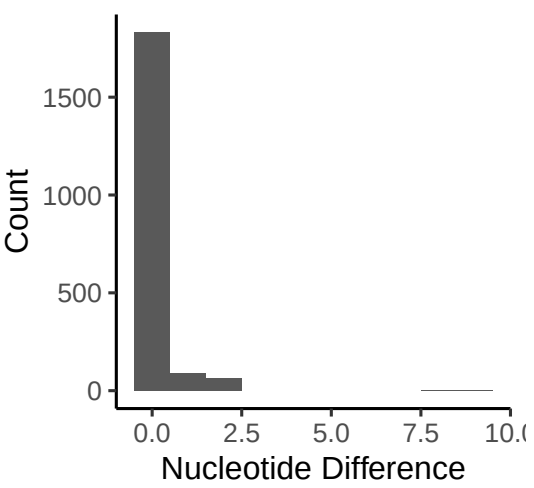
IGHV3−30−3*01

1508 sequences assigned
1436 (95.2%) exact matches, in which:
1417 unique CDR3
6 unique J



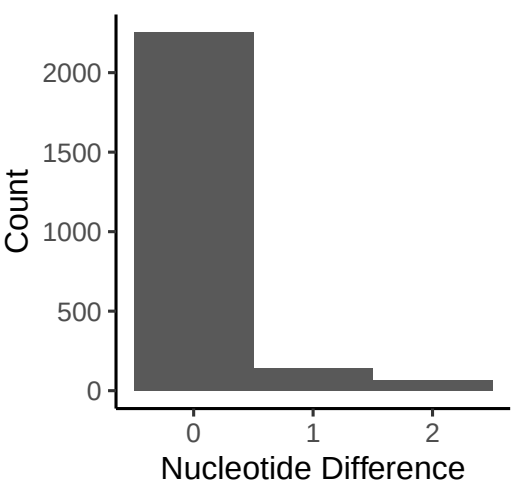
IGHV3−48*02

1984 sequences assigned
1831 (92.3%) exact matches, in which:
1776 unique CDR3
6 unique J



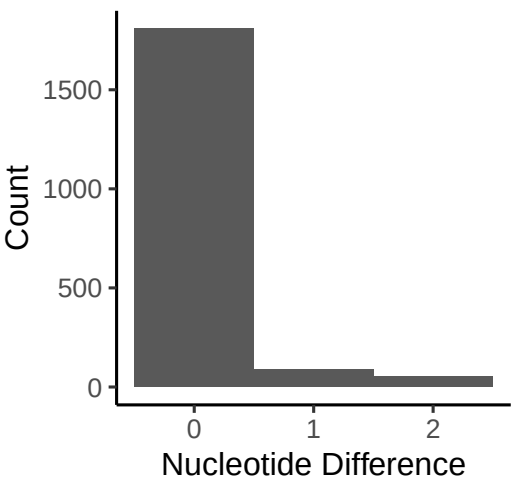
IGHV3−53*01_02

2459 sequences assigned
2253 (91.6%) exact matches, in which:
2180 unique CDR3
6 unique J



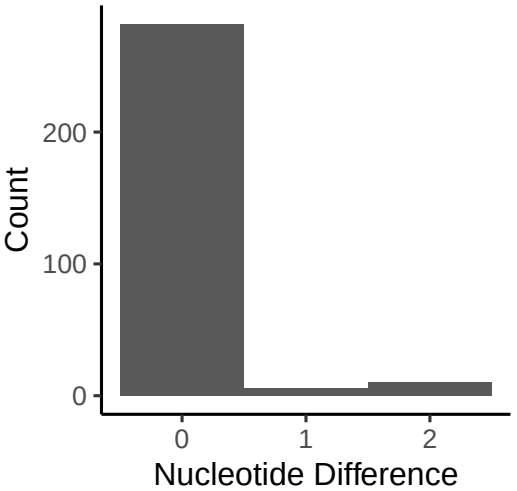
IGHV3−33*01

1947 sequences assigned
1808 (92.9%) exact matches, in which:
1777 unique CDR3
6 unique J



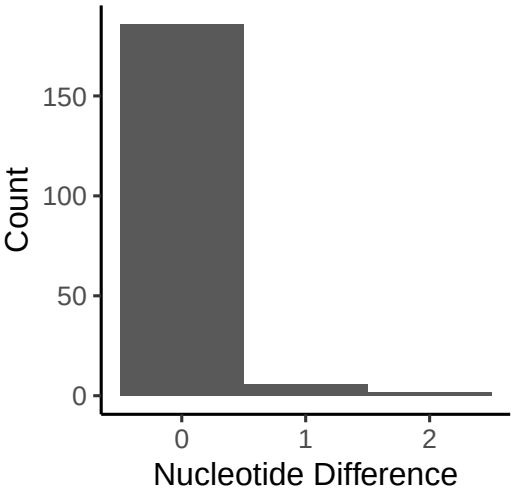
IGHV3−49*03_05

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



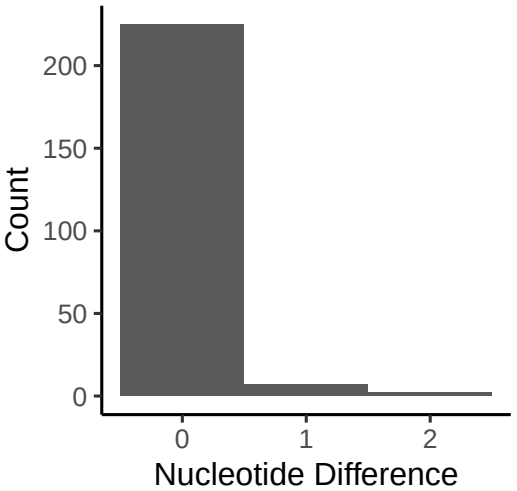
IGHV3−64*01

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



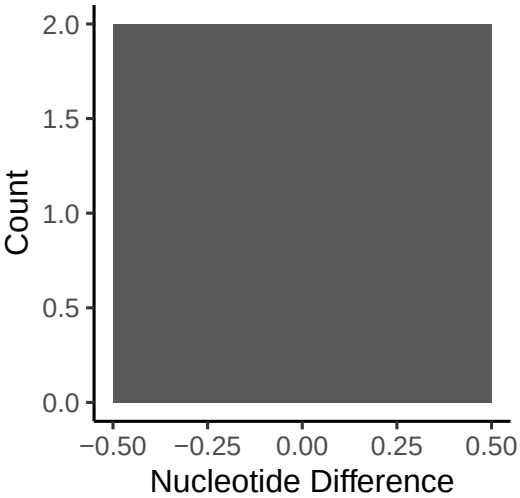
IGHV3−43*01

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



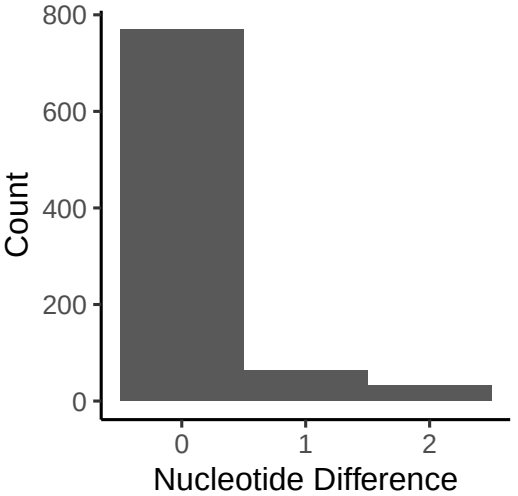
IGHV3−52*01_03

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



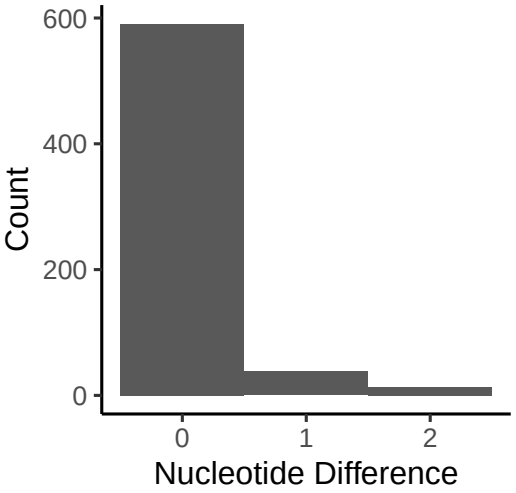
IGHV3−66*01

865 sequences assigned
770 (89%) exact matches, in which:
743 unique CDR3
6 unique J



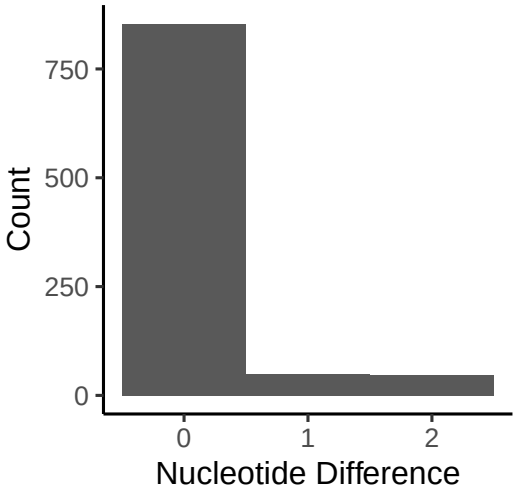
IGHV3−66*02

643 sequences assigned
591 (91.9%) exact matches, in which:
575 unique CDR3
6 unique J



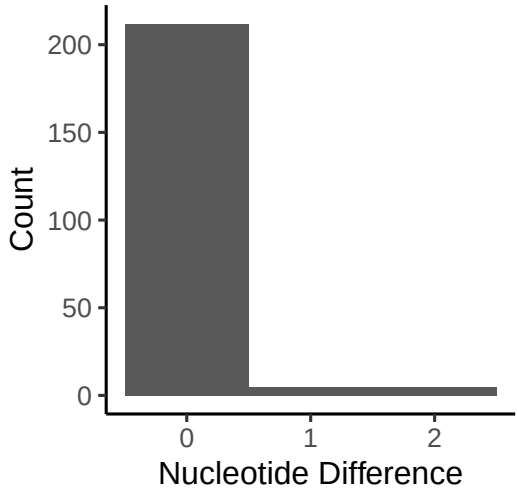
IGHV3−74*01_02

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



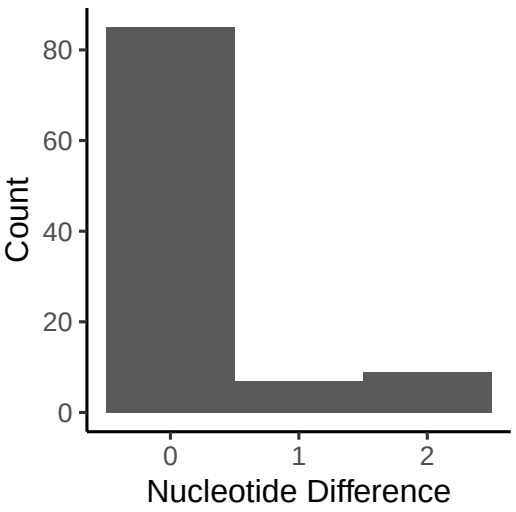
IGHV4−4*02_03

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



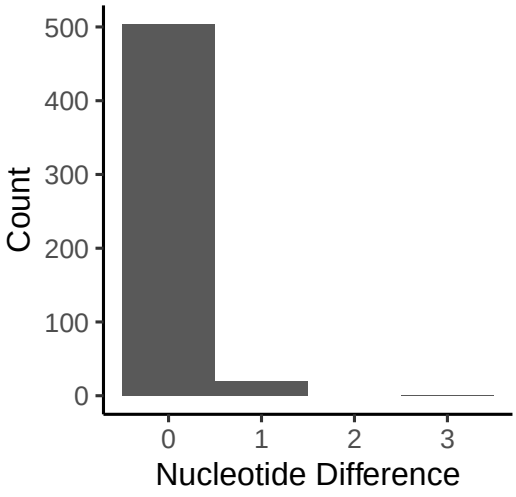
IGHV3−72*01

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



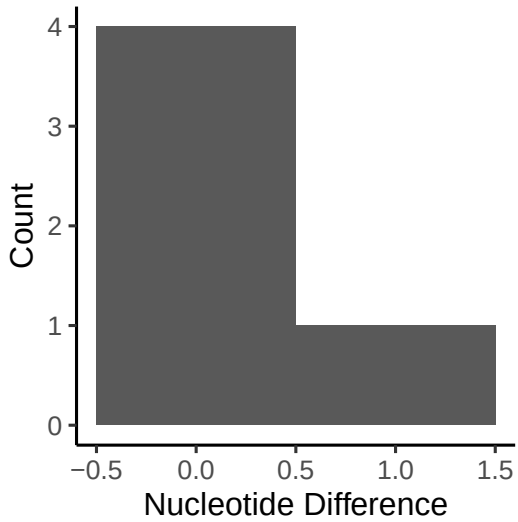
IGHV3−64D*09

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



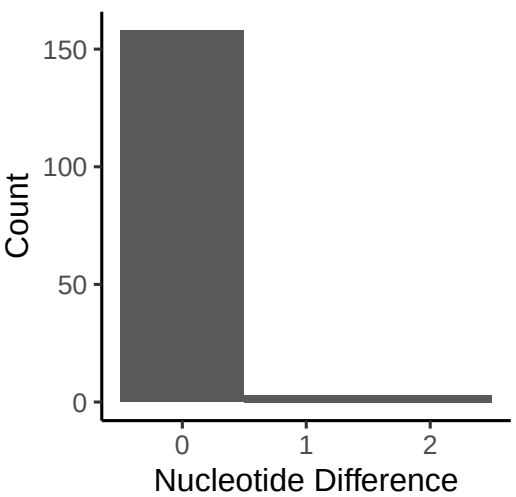
IGHV4−28*01_07

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



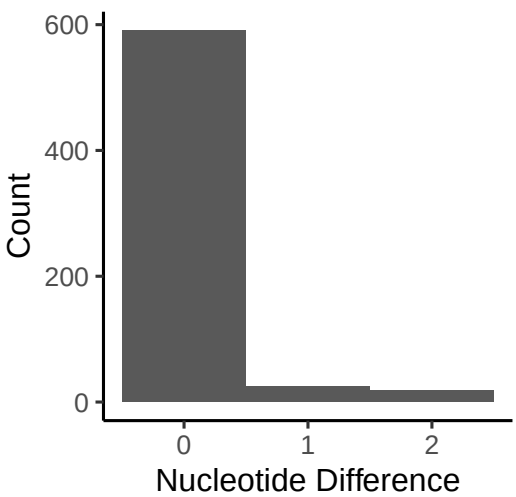
IGHV3−73*01_02

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



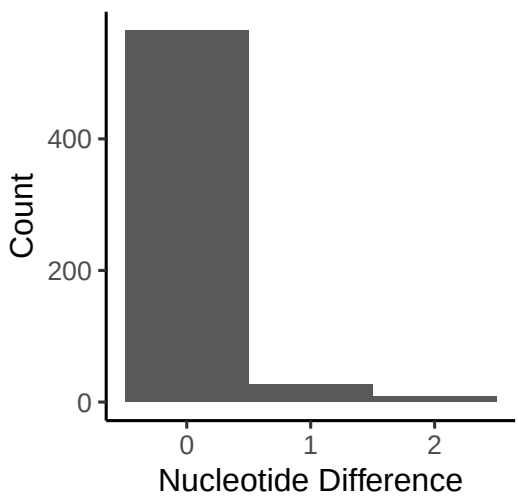
IGHV4−4*07

634 sequences assigned
591 (93.2%) exact matches, in which:
579 unique CDR3
6 unique J



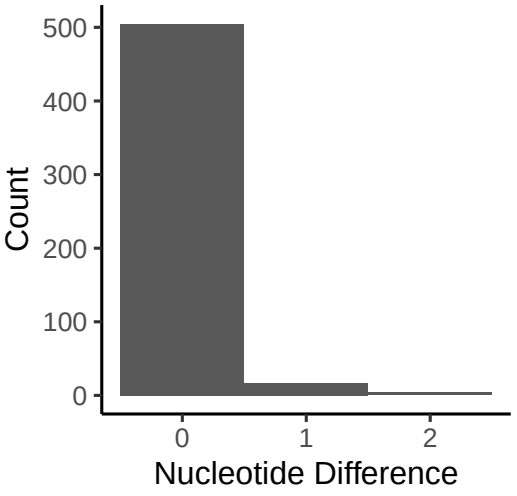
IGHV4−30−4*01

600 sequences assigned
565 (94.2%) exact matches, in which:
558 unique CDR3
6 unique J



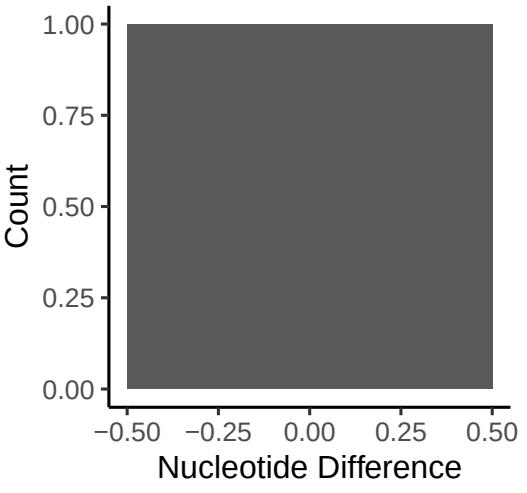
IGHV4−30−2*01

526 sequences assigned
505 (96%) exact matches, in which:
500 unique CDR3
6 unique J



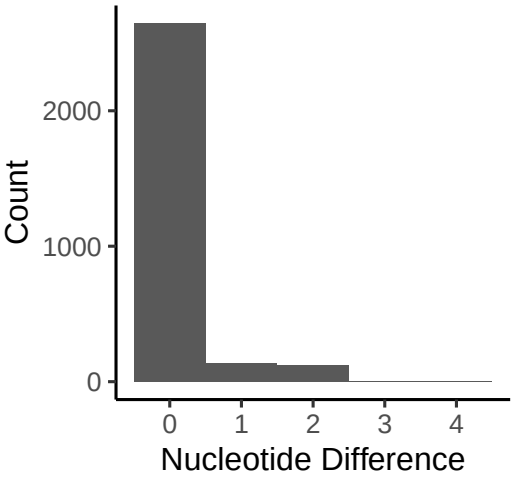
IGHV4−38−2*01

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



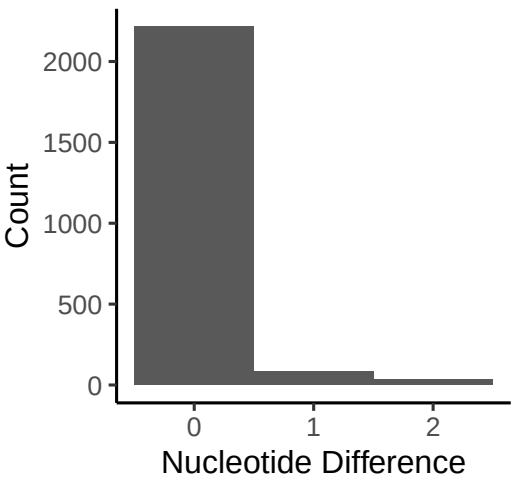
IGHV4−59*08

2914 sequences assigned
2645 (90.8%) exact matches, in which:
2562 unique CDR3
6 unique J



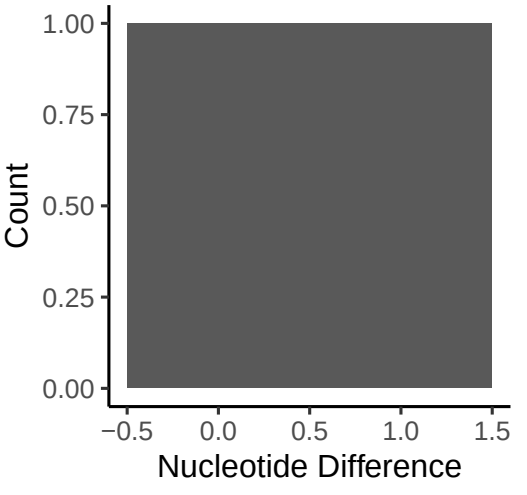
IGHV4−31*02

2333 sequences assigned
2215 (94.9%) exact matches, in which:
2195 unique CDR3
6 unique J



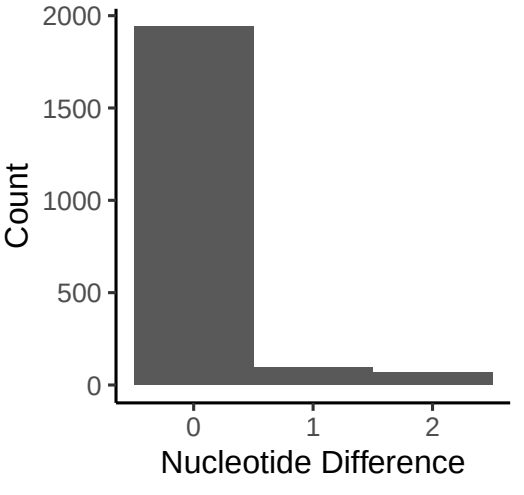
IGHV4−39*02

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



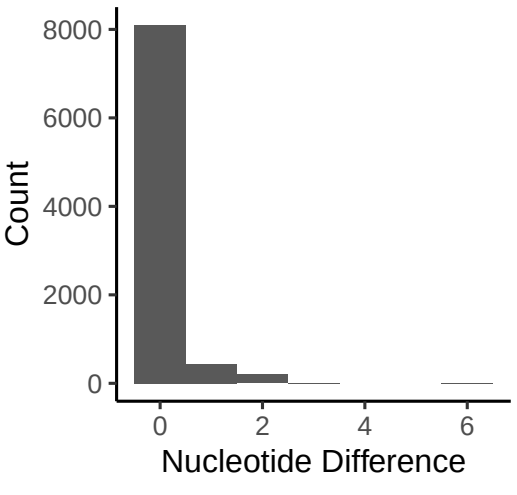
IGHV4−61*02

2099 sequences assigned
1940 (92.4%) exact matches, in which:
1909 unique CDR3
6 unique J



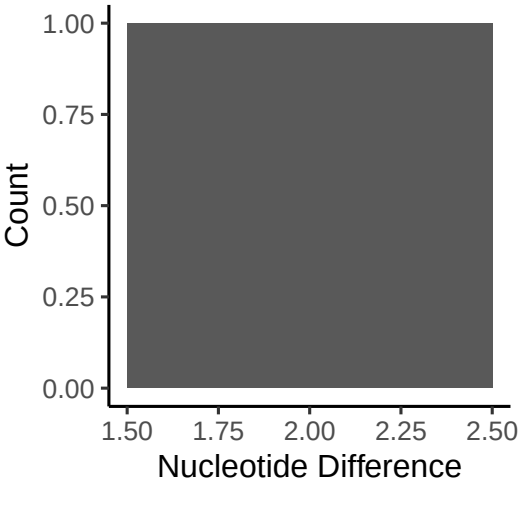
IGHV4−34*01_02

8734 sequences assigned
8098 (92.7%) exact matches, in which:
7982 unique CDR3
6 unique J



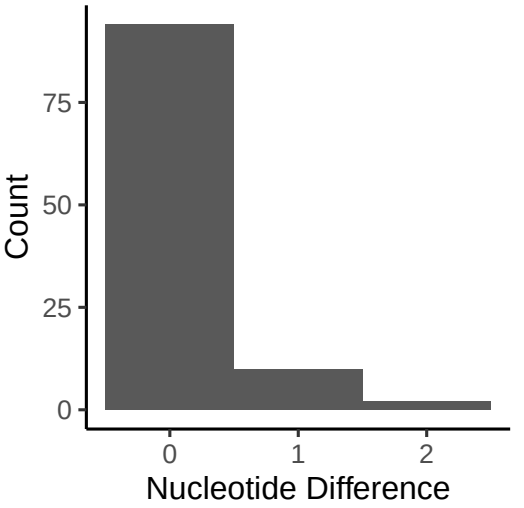
IGHV4−39*07

1 sequences assigned
No exact matches.



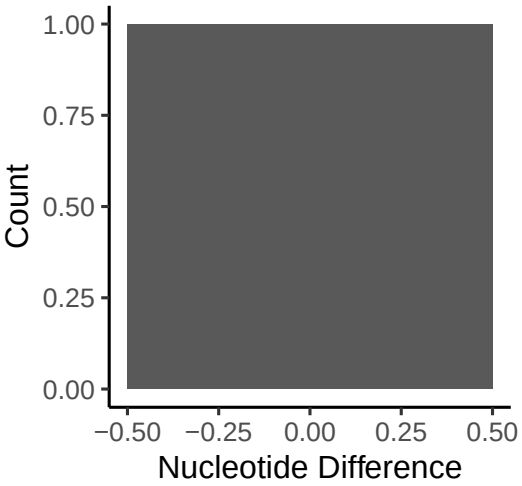
IGHV5−10−1*01_03

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



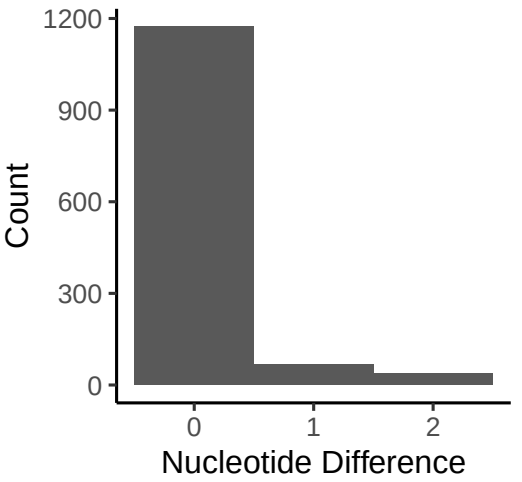
IGHV5−51*01_03

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



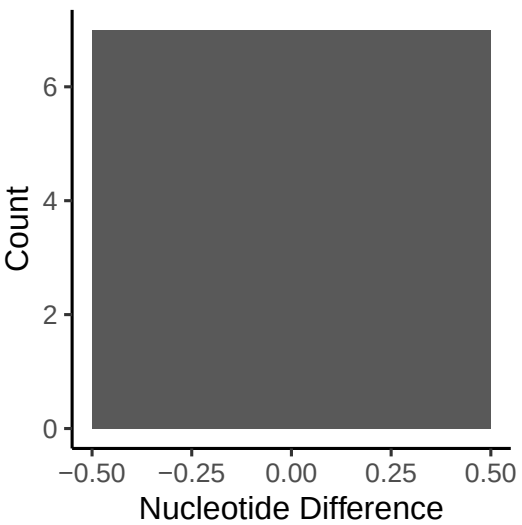
IGHV6−1*01_02

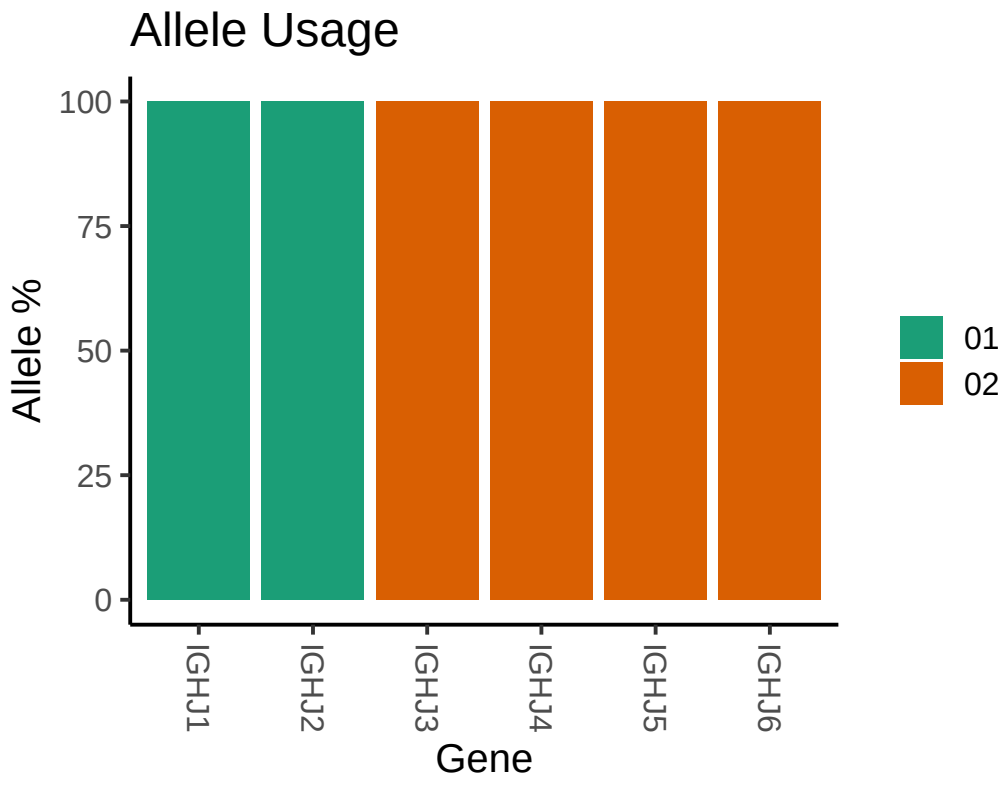
1280 sequences assigned
1173 (91.6%) exact matches, in which:
1164 unique CDR3
6 unique J



IGHV7−4−1*01

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

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IGHJ3
IGHJ4
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IGHJ6
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