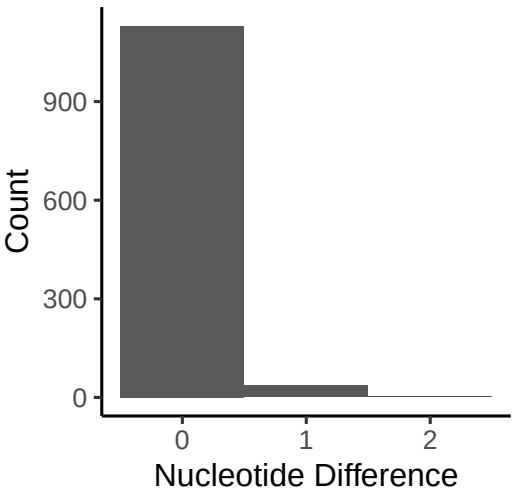
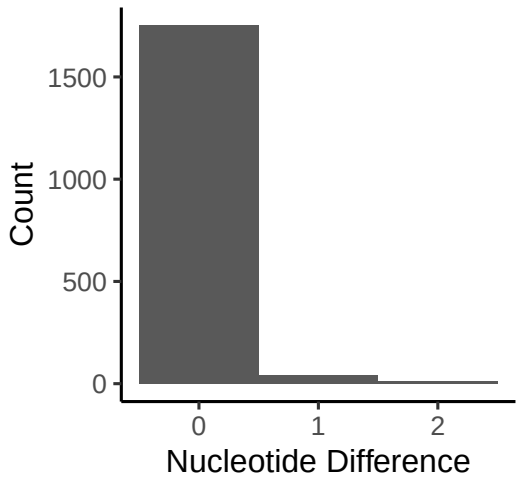
IGHV1−2*04

1170 sequences assigned
1131 (96.7%) exact matches, in which:
1130 unique CDR3
7 unique J



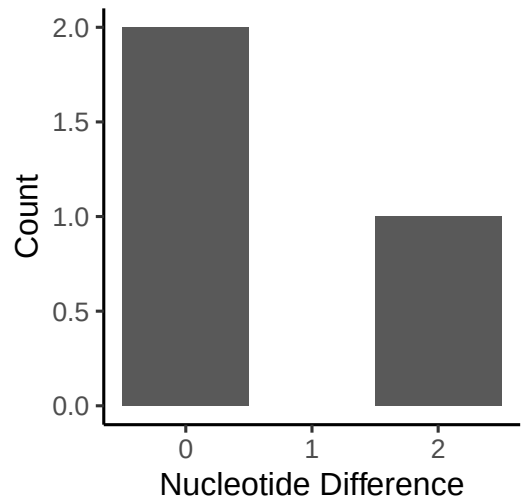
IGHV1−18*01

1808 sequences assigned
1752 (96.9%) exact matches, in which:
1752 unique CDR3
7 unique J



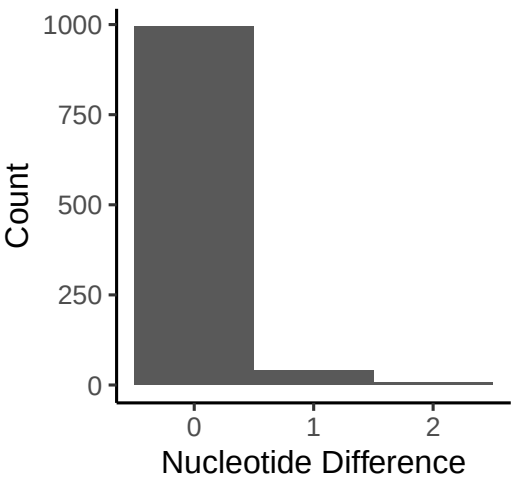
IGHV1−45*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



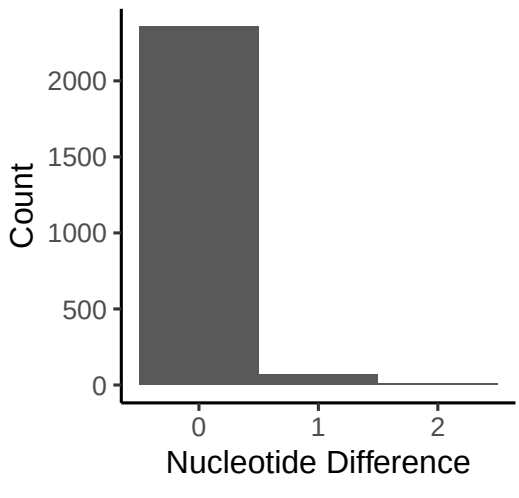
IGHV1−3*01_05

1042 sequences assigned
994 (95.4%) exact matches, in which:
993 unique CDR3
7 unique J



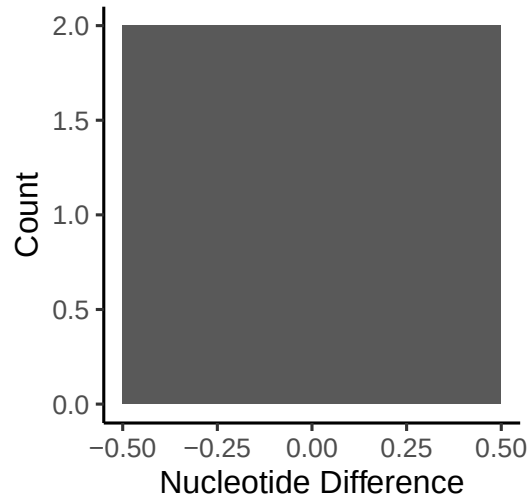
IGHV1−18*04

2435 sequences assigned
2356 (96.8%) exact matches, in which:
2353 unique CDR3
7 unique J



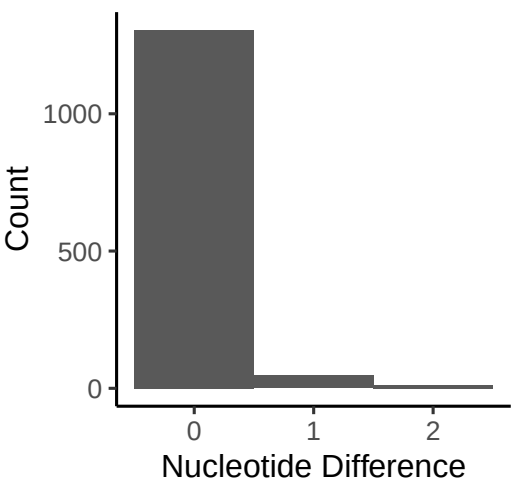
IGHV1−45*03

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



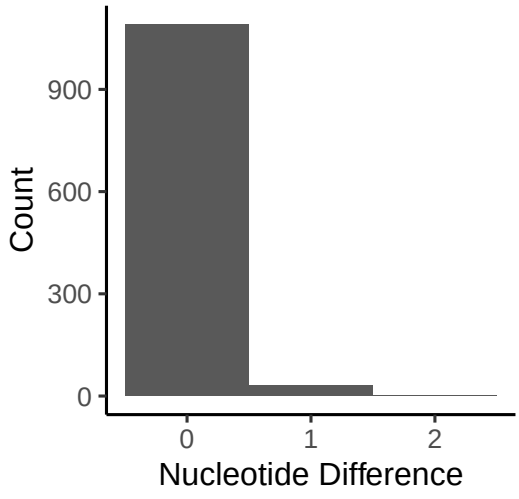
IGHV1−8*01

1364 sequences assigned
1305 (95.7%) exact matches, in which:
1305 unique CDR3
7 unique J



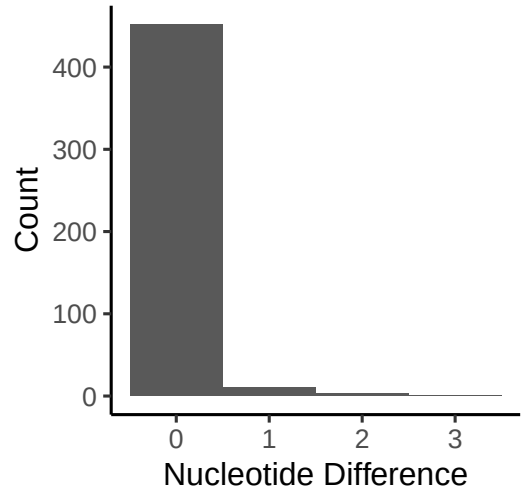
IGHV1−24*01

1123 sequences assigned
1091 (97.2%) exact matches, in which:
1089 unique CDR3
7 unique J



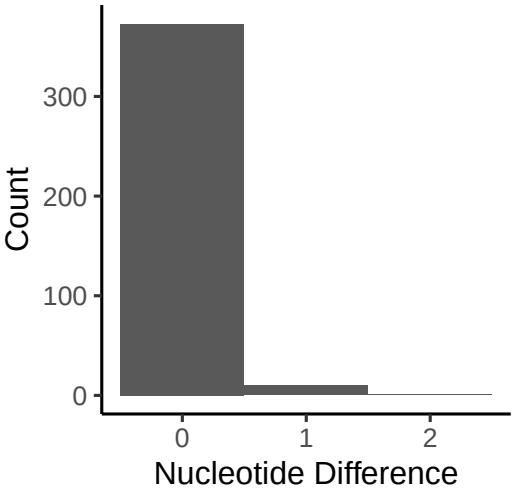
IGHV1−46*01

466 sequences assigned
452 (97%) exact matches, in which:
452 unique CDR3
7 unique J



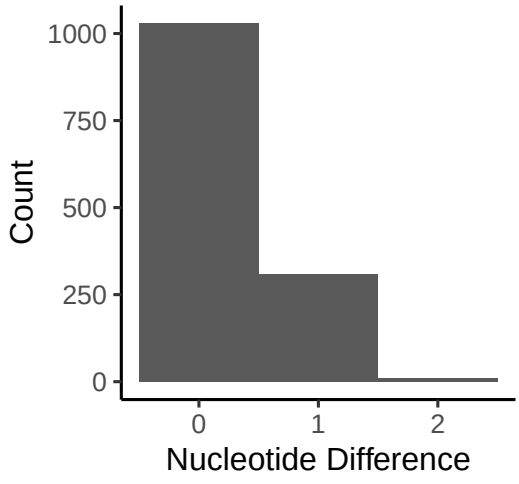
IGHV1−46*03

384 sequences assigned
373 (97.1%) exact matches, in which:
373 unique CDR3
6 unique J



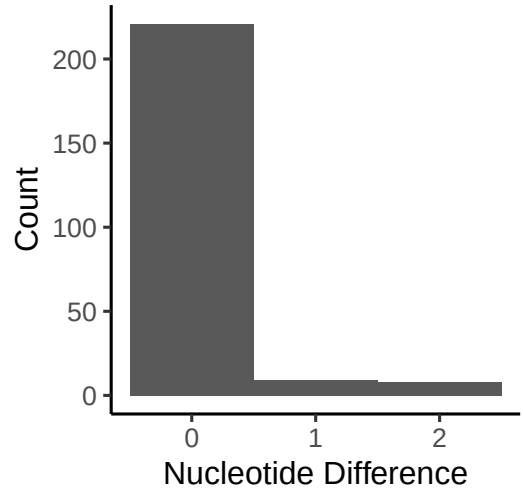
IGHV1−69*04_09

1346 sequences assigned
1029 (76.4%) exact matches, in which:
1028 unique CDR3
7 unique J



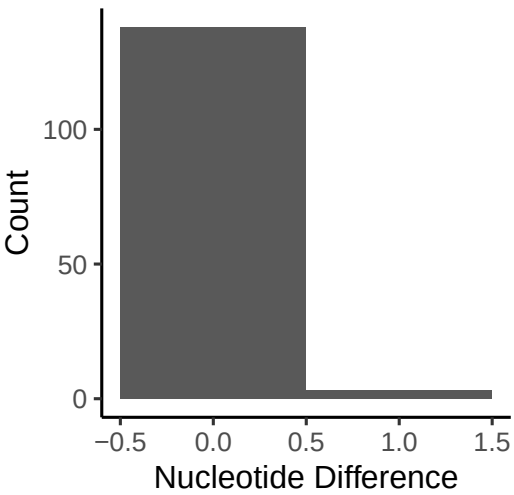
IGHV2−70*11_15

238 sequences assigned
221 (92.9%) exact matches, in which:
221 unique CDR3
6 unique J



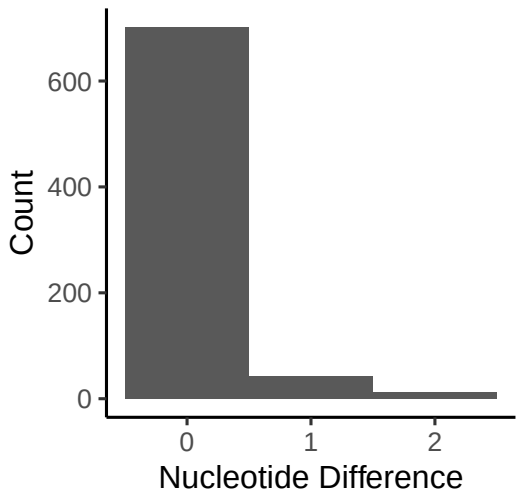
IGHV1−58*02

141 sequences assigned
138 (97.9%) exact matches, in which:
138 unique CDR3
6 unique J



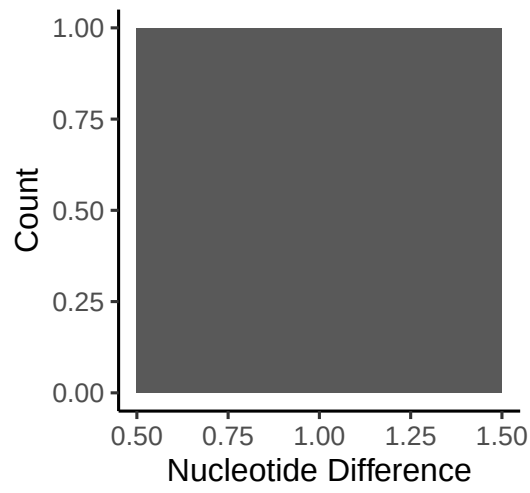
IGHV2−5*02

757 sequences assigned
702 (92.7%) exact matches, in which:
701 unique CDR3
7 unique J



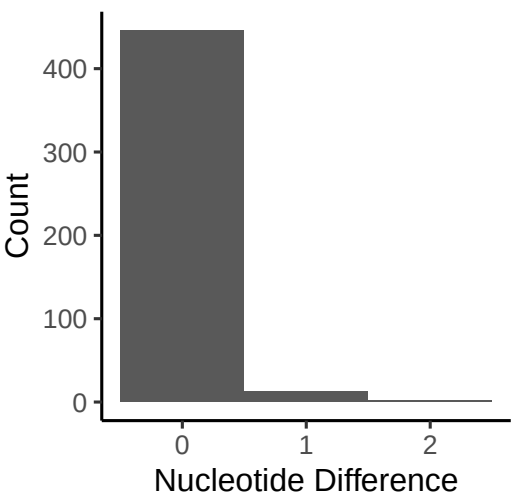
IGHV2−70D*04

1 sequences assigned
No exact matches.



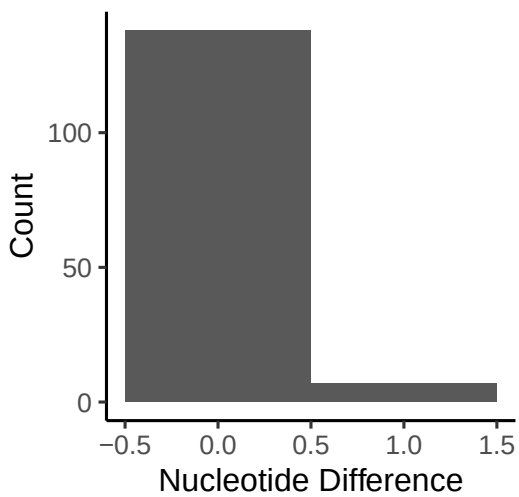
IGHV1−69*02

461 sequences assigned
446 (96.7%) exact matches, in which:
444 unique CDR3
7 unique J



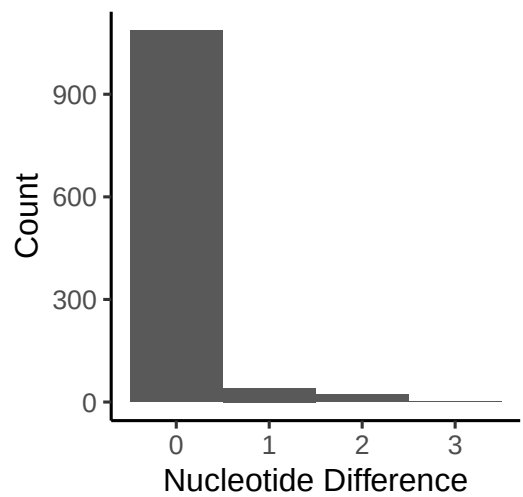
IGHV2−26*01

145 sequences assigned
138 (95.2%) exact matches, in which:
138 unique CDR3
7 unique J



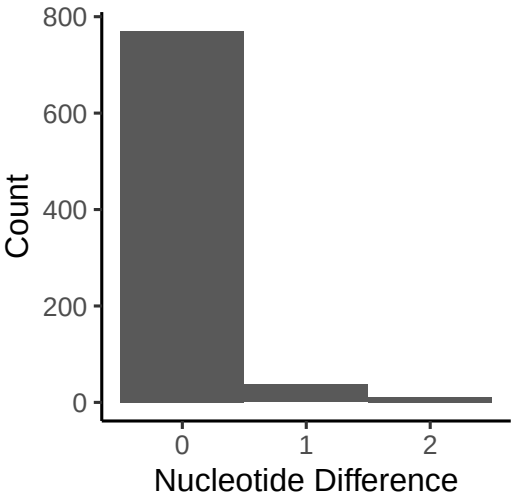
IGHV3−7*01

1152 sequences assigned
1087 (94.4%) exact matches, in which:
1074 unique CDR3
6 unique J



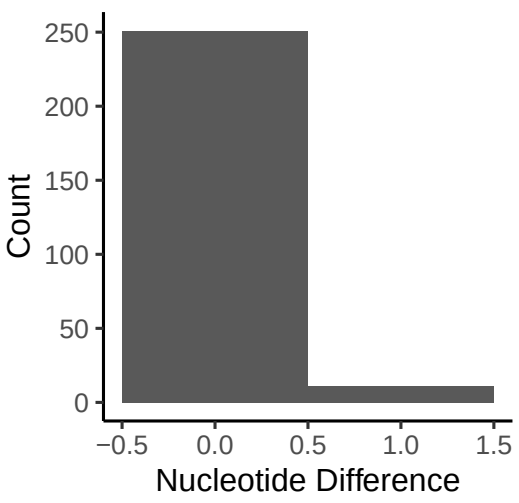
IGHV3−7*03

820 sequences assigned
771 (94%) exact matches, in which:
760 unique CDR3
7 unique J



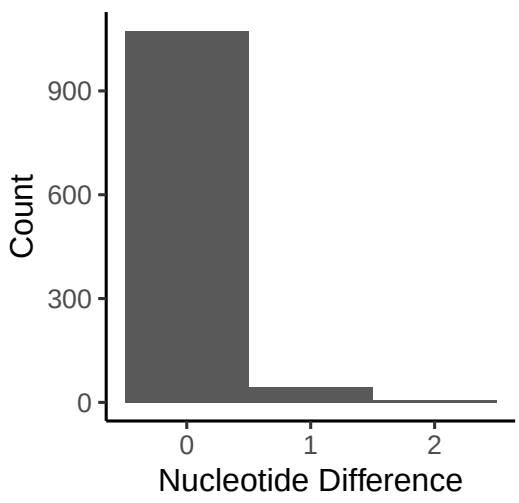
IGHV3−11*06

262 sequences assigned
251 (95.8%) exact matches, in which:
247 unique CDR3
7 unique J



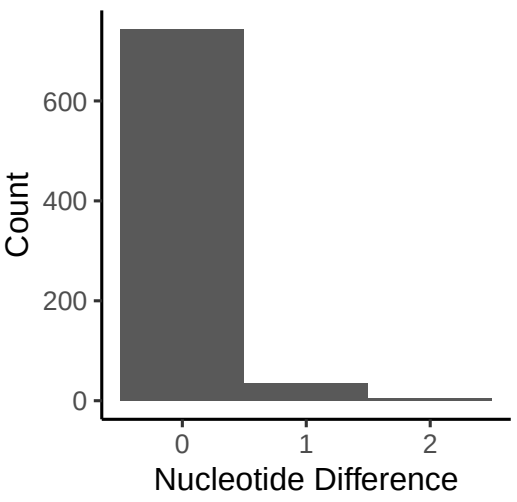
IGHV3−15*01_02

1127 sequences assigned
1074 (95.3%) exact matches, in which:
1066 unique CDR3
7 unique J



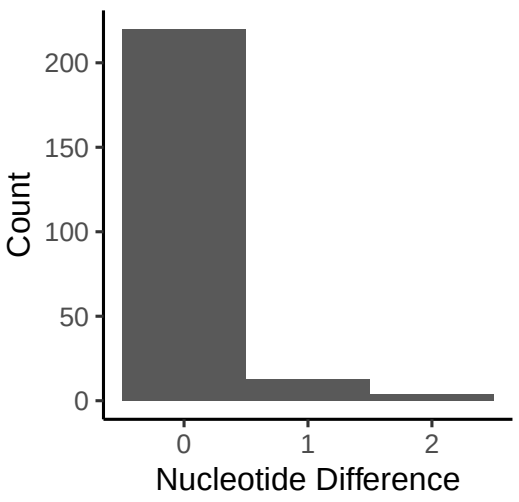
IGHV3−9*01

786 sequences assigned
744 (94.7%) exact matches, in which:
739 unique CDR3
6 unique J



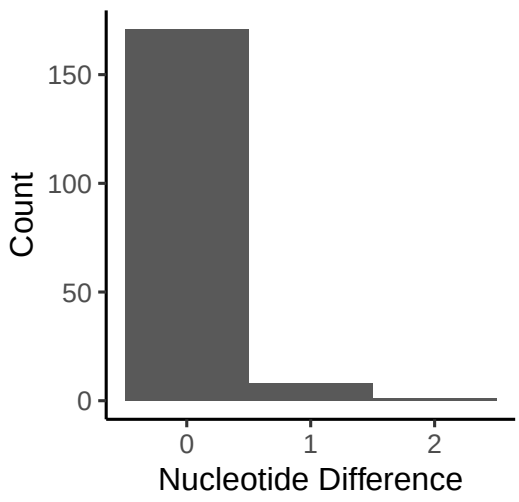
IGHV3−13*01

237 sequences assigned
220 (92.8%) exact matches, in which:
219 unique CDR3
6 unique J



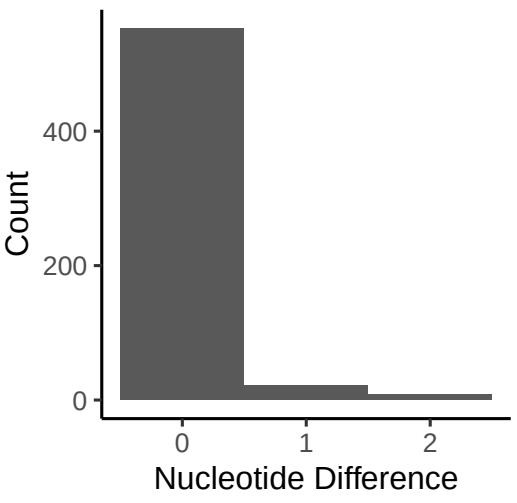
IGHV3−20*01_02

180 sequences assigned
171 (95%) exact matches, in which:
168 unique CDR3
6 unique J



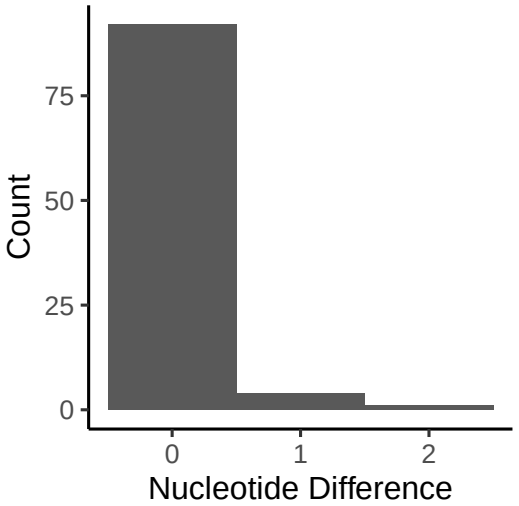
IGHV3−11*01

582 sequences assigned
553 (95%) exact matches, in which:
548 unique CDR3
7 unique J



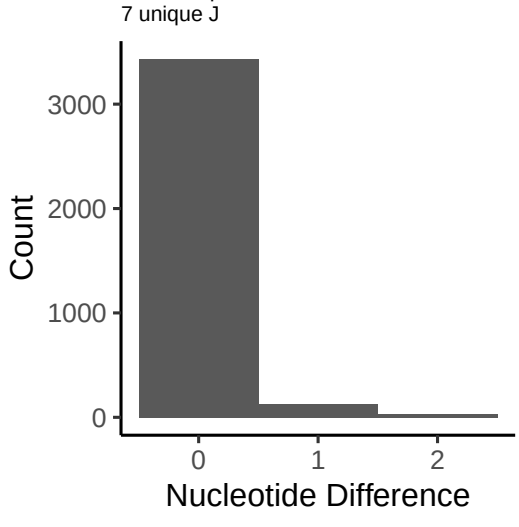
IGHV3−13*05

97 sequences assigned
92 (94.8%) exact matches, in which:
91 unique CDR3
5 unique J



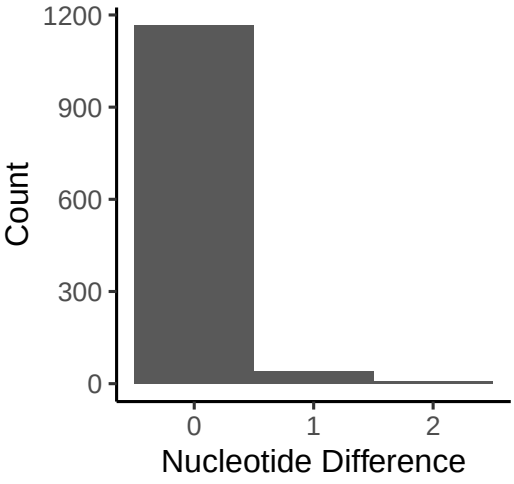
IGHV3−21*01_02

3587 sequences assigned
3432 (95.7%) exact matches, in which:
3402 unique CDR3
7 unique J



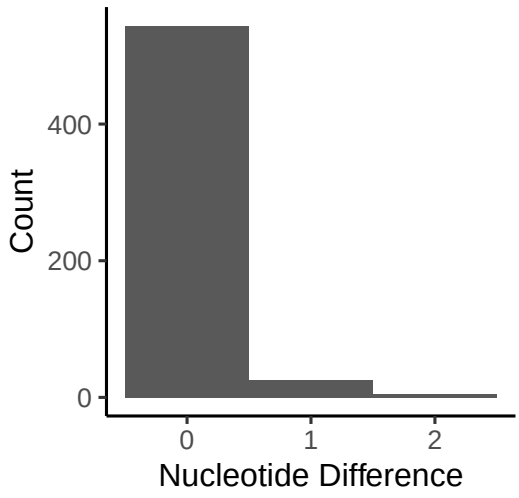
IGHV3−30−3*01

1216 sequences assigned
1166 (95.9%) exact matches, in which:
1162 unique CDR3
7 unique J



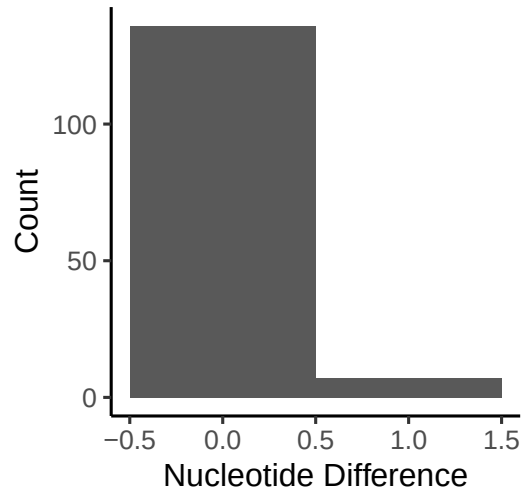
IGHV3−43*02

574 sequences assigned
544 (94.8%) exact matches, in which:
535 unique CDR3
6 unique J



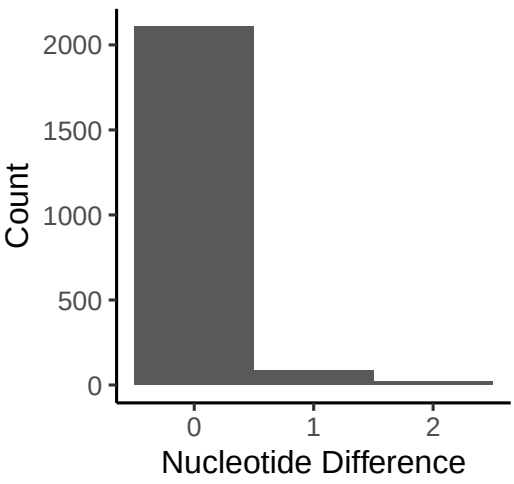
IGHV3−49*04

143 sequences assigned
136 (95.1%) exact matches, in which:
136 unique CDR3
5 unique J



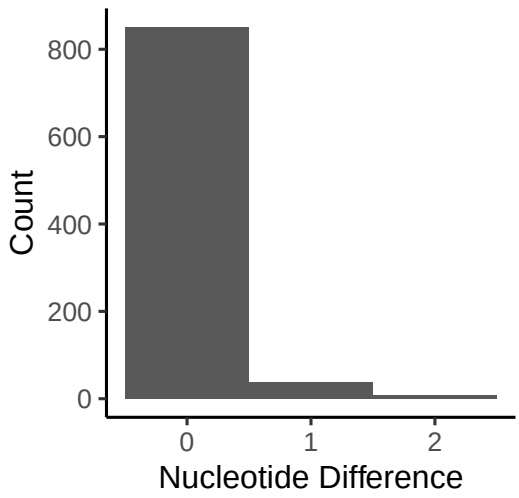
IGHV3−33*01

2212 sequences assigned
2107 (95.3%) exact matches, in which:
2083 unique CDR3
7 unique J



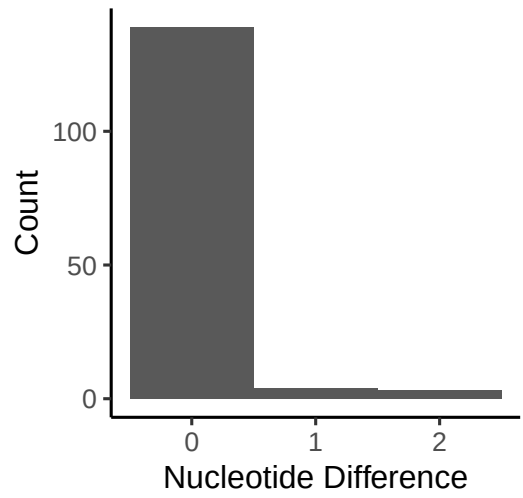
IGHV3−48*01

897 sequences assigned
851 (94.9%) exact matches, in which:
840 unique CDR3
7 unique J



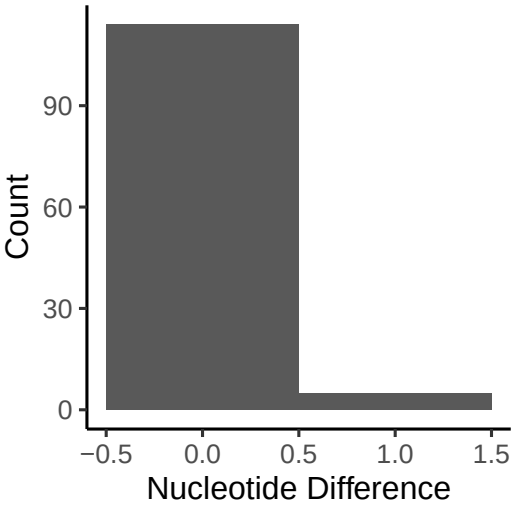
IGHV3−49*03_05

146 sequences assigned
139 (95.2%) exact matches, in which:
138 unique CDR3
4 unique J



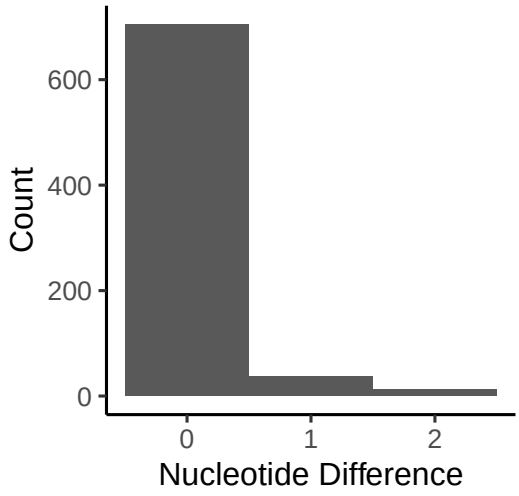
IGHV3−43*01

119 sequences assigned
114 (95.8%) exact matches, in which:
112 unique CDR3
5 unique J



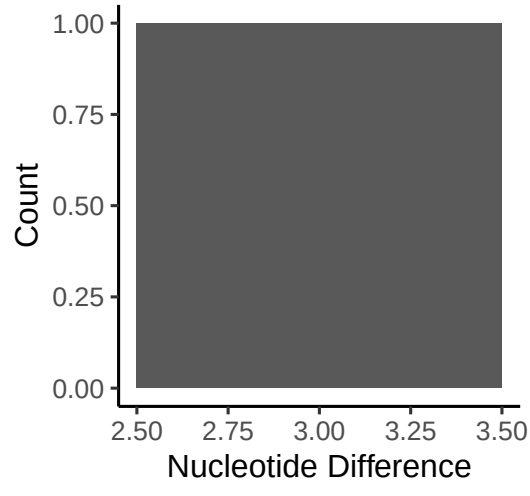
IGHV3−48*03

754 sequences assigned
705 (93.5%) exact matches, in which:
699 unique CDR3
7 unique J



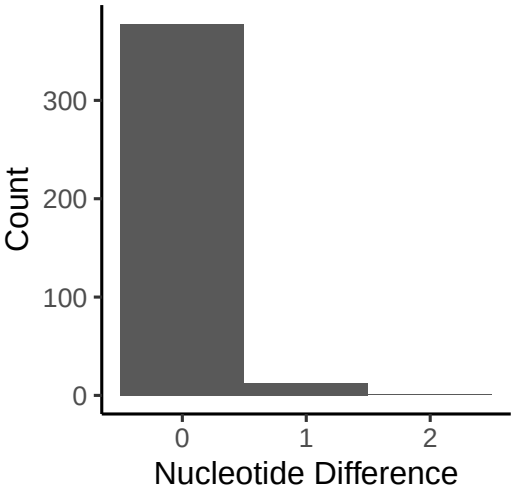
IGHV3−52*01_03

1 sequences assigned
No exact matches.



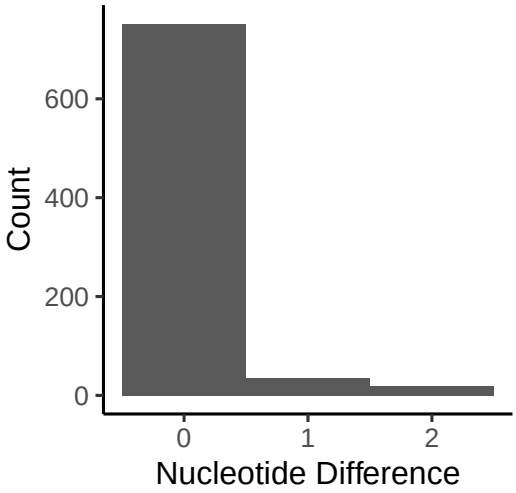
IGHV3−53*04

392 sequences assigned
378 (96.4%) exact matches, in which:
375 unique CDR3
7 unique J



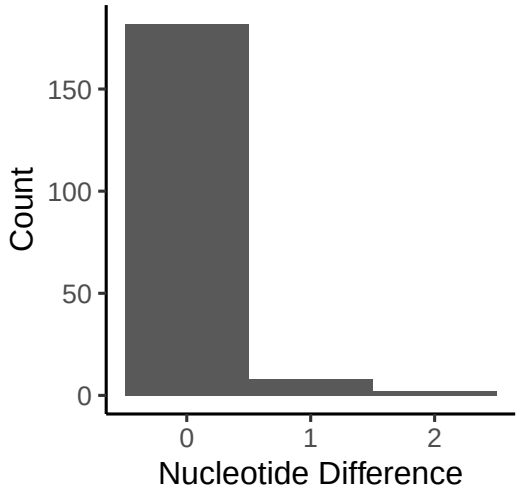
IGHV3−66*01

806 sequences assigned
752 (93.3%) exact matches, in which:
743 unique CDR3
7 unique J



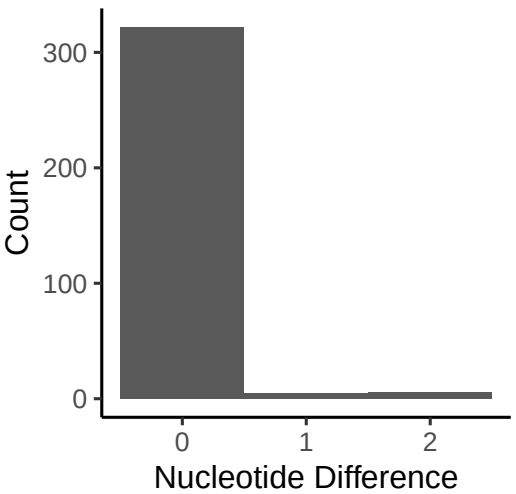
IGHV3−73*01_02

192 sequences assigned
182 (94.8%) exact matches, in which:
181 unique CDR3
6 unique J



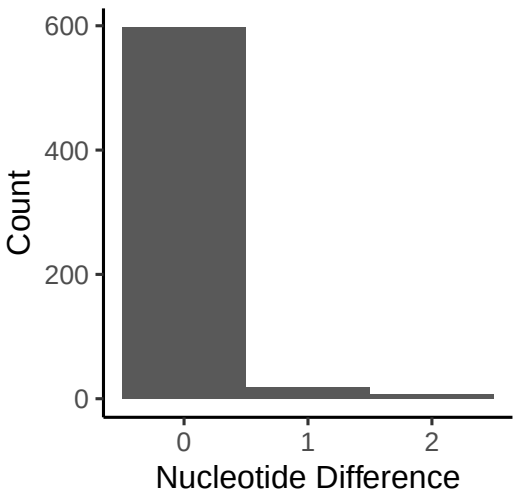
IGHV3−53*01_02

333 sequences assigned
322 (96.7%) exact matches, in which:
319 unique CDR3
6 unique J



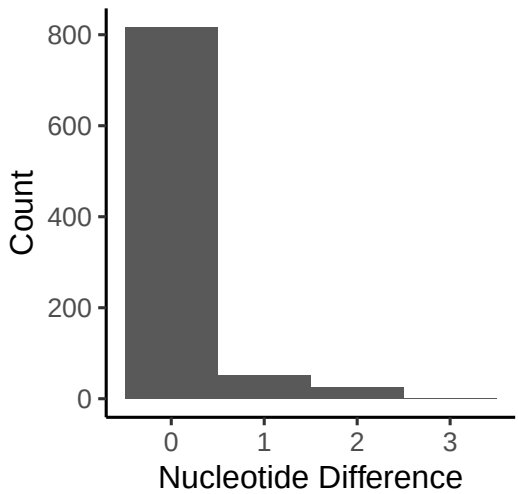
IGHV3−66*02

624 sequences assigned
598 (95.8%) exact matches, in which:
592 unique CDR3
6 unique J



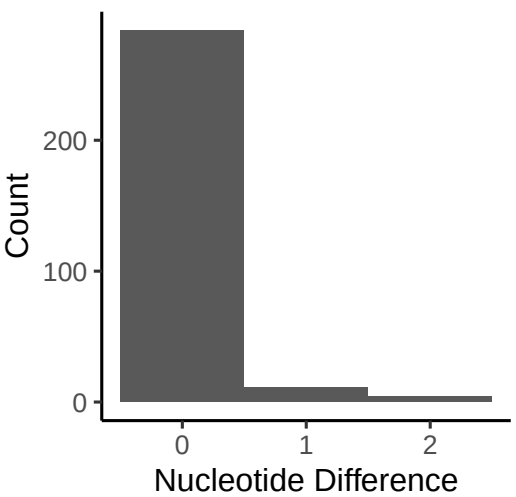
IGHV3−74*01_02

894 sequences assigned
817 (91.4%) exact matches, in which:
801 unique CDR3
7 unique J



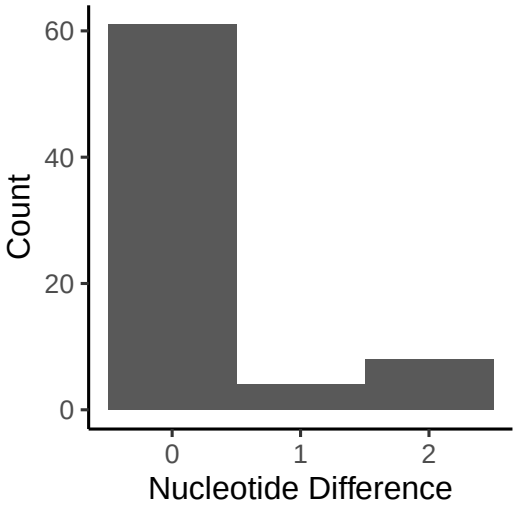
IGHV3−64*01

299 sequences assigned
284 (95%) exact matches, in which:
282 unique CDR3
7 unique J



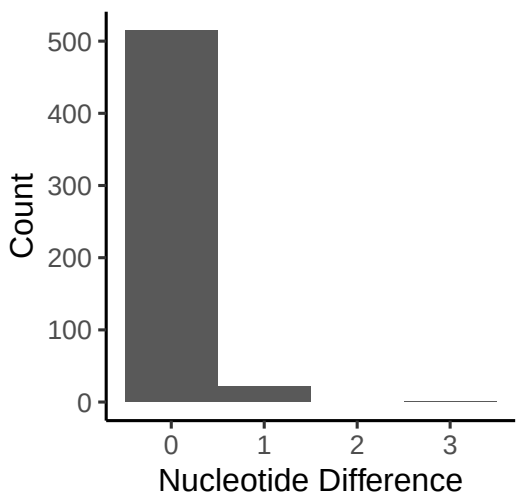
IGHV3−72*01

73 sequences assigned
61 (83.6%) exact matches, in which:
60 unique CDR3
7 unique J



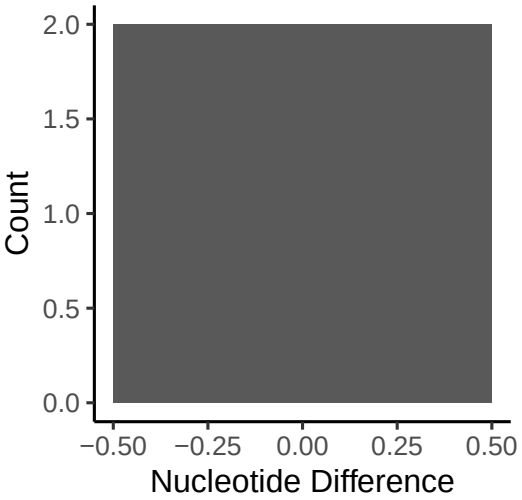
IGHV3−64D*09

538 sequences assigned
515 (95.7%) exact matches, in which:
513 unique CDR3
6 unique J



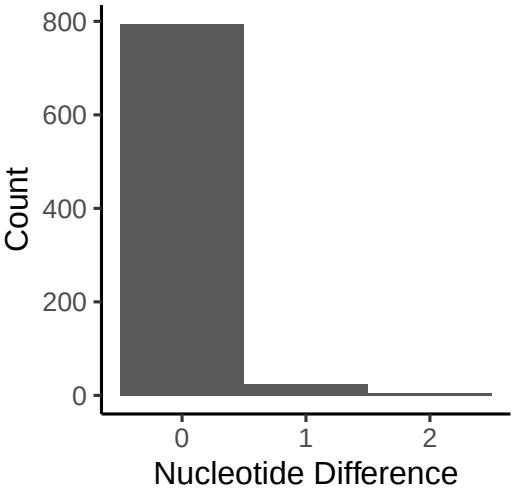
IGHV4−28*03

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



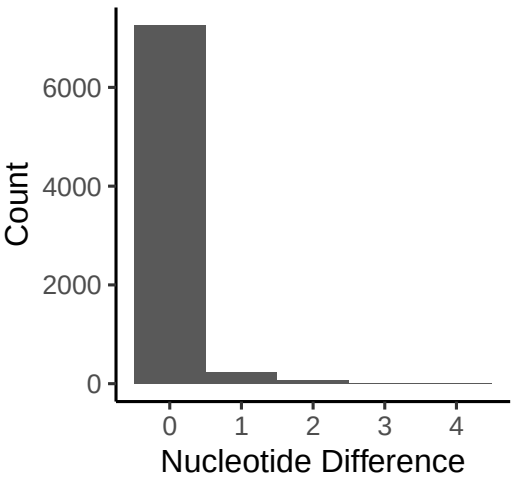
IGHV4−30−2*01

825 sequences assigned
795 (96.4%) exact matches, in which:
777 unique CDR3
6 unique J



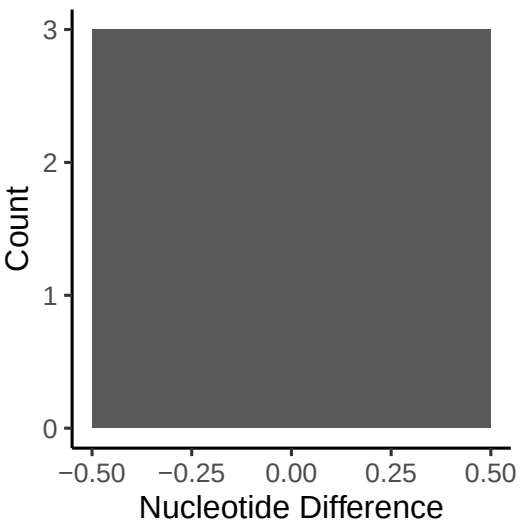
IGHV4−39*01_05

7559 sequences assigned
7255 (96%) exact matches, in which:
7178 unique CDR3
7 unique J



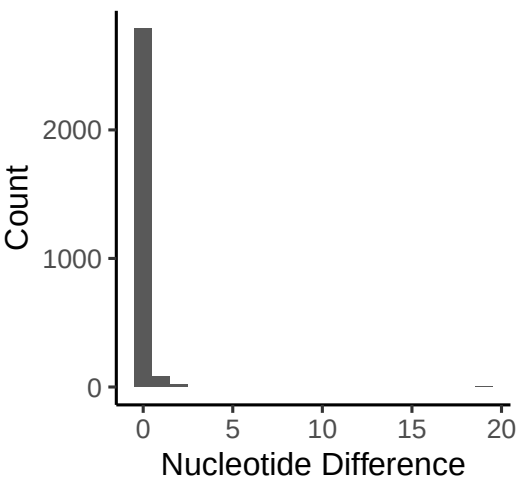
IGHV4−28*01_07

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



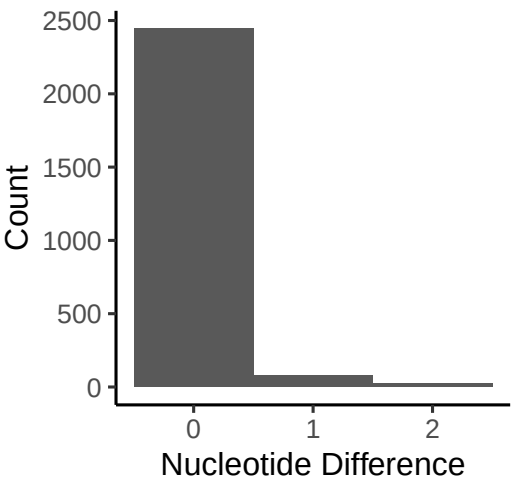
IGHV4−31*03_04

2887 sequences assigned
2787 (96.5%) exact matches, in which:
2775 unique CDR3
7 unique J



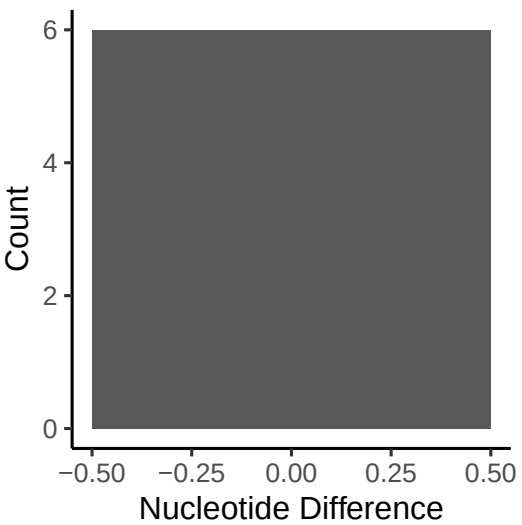
IGHV4−59*08

2549 sequences assigned
2444 (95.9%) exact matches, in which:
2424 unique CDR3
7 unique J



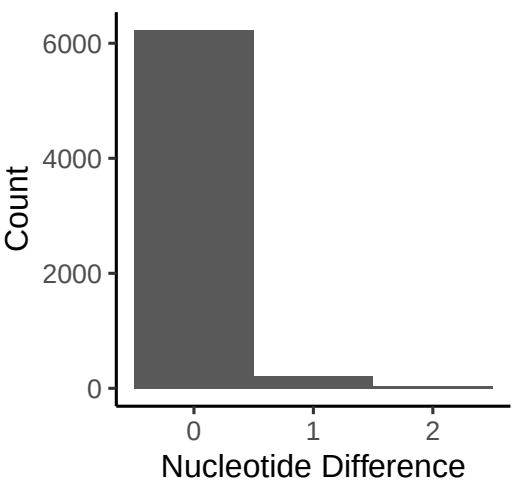
IGHV4−28*02_05

6 sequences assigned
6 (100%) exact matches, in which:
6 unique CDR3
4 unique J



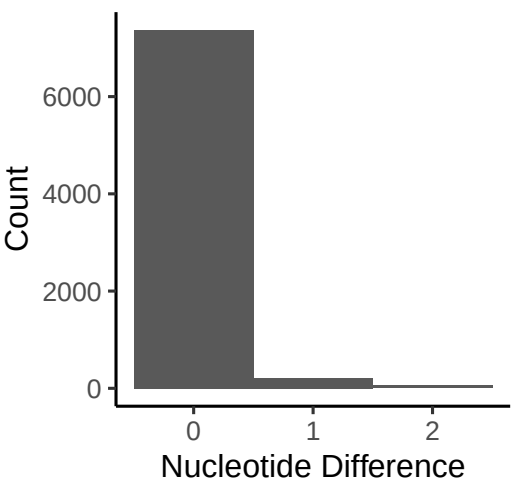
IGHV4−34*01_02

6493 sequences assigned
6230 (95.9%) exact matches, in which:
6153 unique CDR3
7 unique J



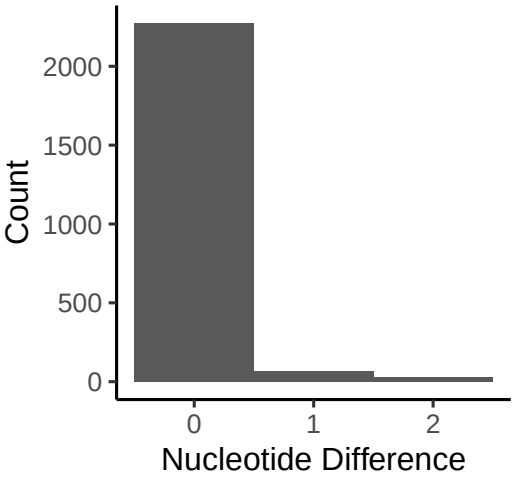
IGHV4−59*01_07

7632 sequences assigned
7369 (96.6%) exact matches, in which:
7295 unique CDR3
7 unique J



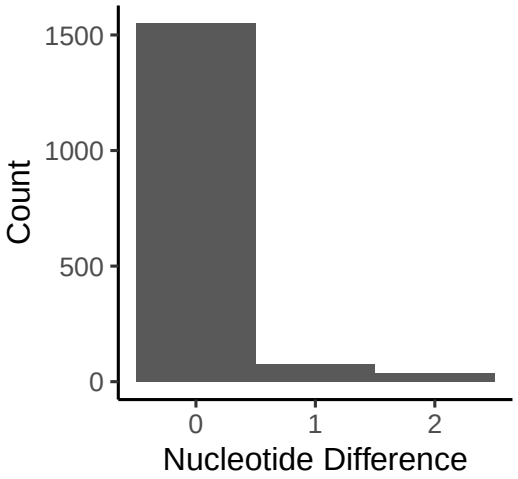
IGHV4−61*02

2366 sequences assigned
2272 (96%) exact matches, in which:
2262 unique CDR3
7 unique J



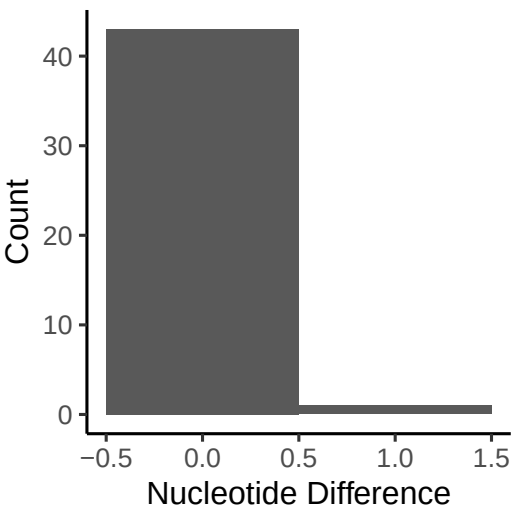
IGHV6−1*01_02

1663 sequences assigned
1550 (93.2%) exact matches, in which:
1545 unique CDR3
7 unique J



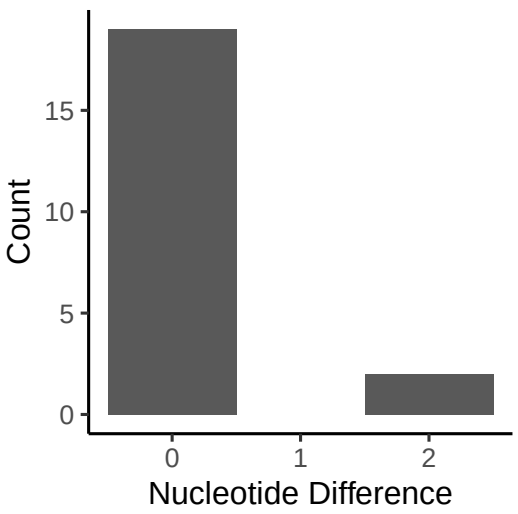
IGHV5−10−1*01_03

44 sequences assigned
43 (97.7%) exact matches, in which:
43 unique CDR3
4 unique J



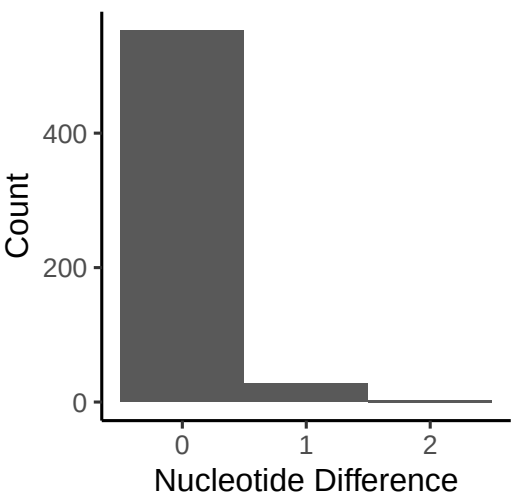
IGHV7−4−1*01

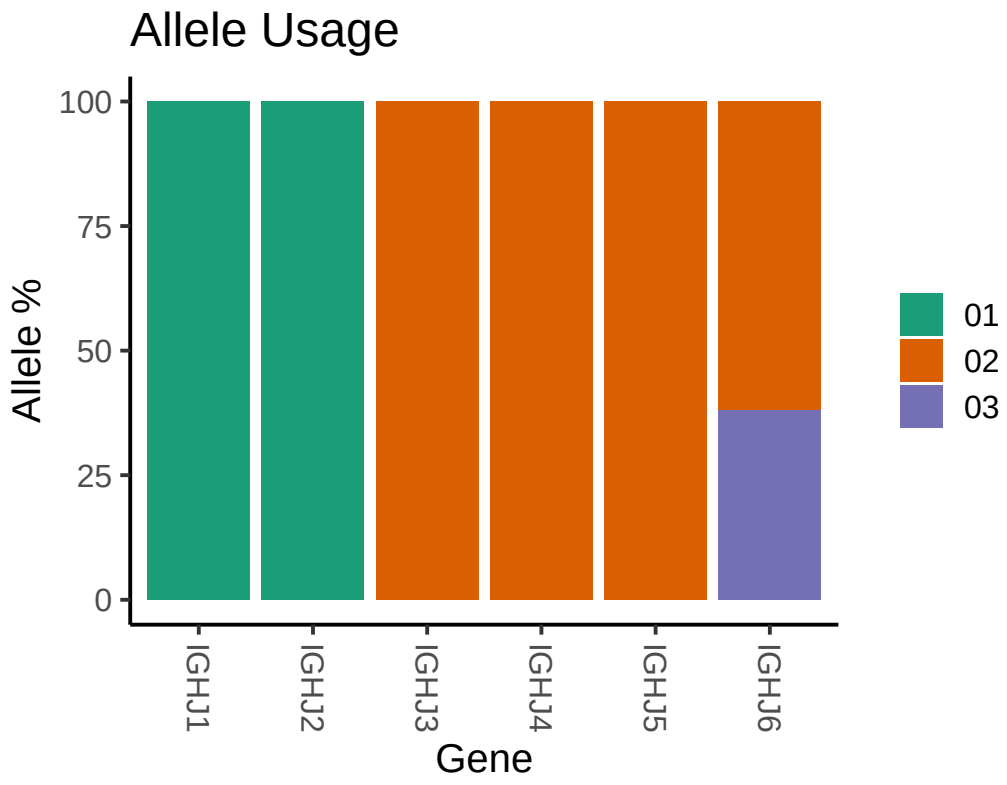
21 sequences assigned
19 (90.5%) exact matches, in which:
19 unique CDR3
5 unique J



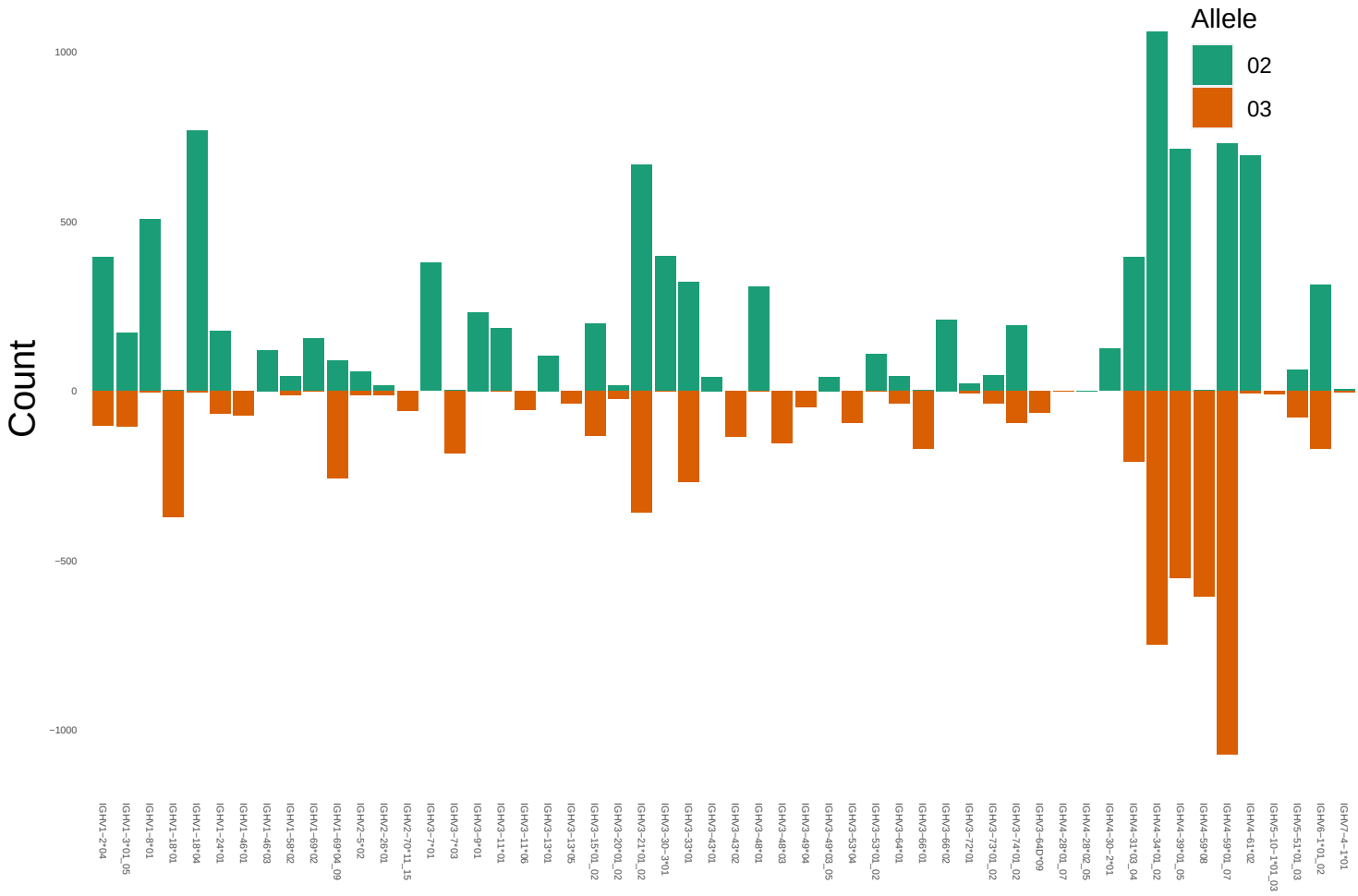
IGHV5−51*01_03

584 sequences assigned
553 (94.7%) exact matches, in which:
553 unique CDR3
7 unique J




Allele Usage
100
75
50
25
0
Allele %
IGHJ1
IGHJ2
IGHJ3
IGHJ4
IGHJ5
IGHJ6
Gene
01
02
03

Sequence Count by IGHJ6 allele usage



Novel sequence(s) IGHV4−59*02_G88A IGHV5−51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV5−51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4−59*02_G88A IGHV5−51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV5−51*07_A128G are not listed in the genotype and will be ignored.

Warning − no inferred sequences found.

Warning − no inferred sequences found.

Novel sequence(s) IGHV4−39*02_C258G IGHV5−51*07_A128G are not listed in the genotype and will be ignored.

Warning − no inferred sequences found.

Novel sequence(s) IGHV5−51*07_A128G are not listed in the genotype and will be ignored.

Warning − no inferred sequences found.

Novel sequence(s) IGHV4−59*02_G88A IGHV5−51*07_A128G are not listed in the genotype and will be ignored.

Warning − no inferred sequences found.

Novel sequence(s) IGHV4−59*02_G88A IGHV5−51*07_A128G are not listed in the genotype and will be ignored.

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Novel sequence(s) IGHV4−59*02_G88A IGHV5−51*07_A128G are not listed in the genotype and will be ignored.

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Novel sequence(s) IGHV4−59*02_G88A IGHV5−51*07_A128G are not listed in the genotype and will be ignored.

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