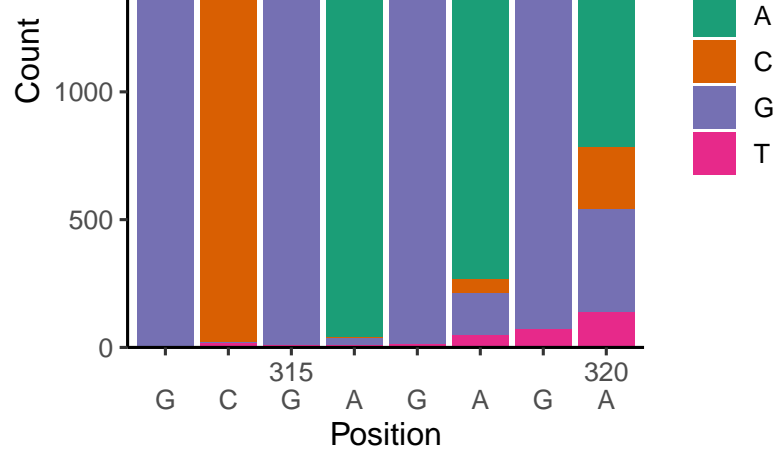
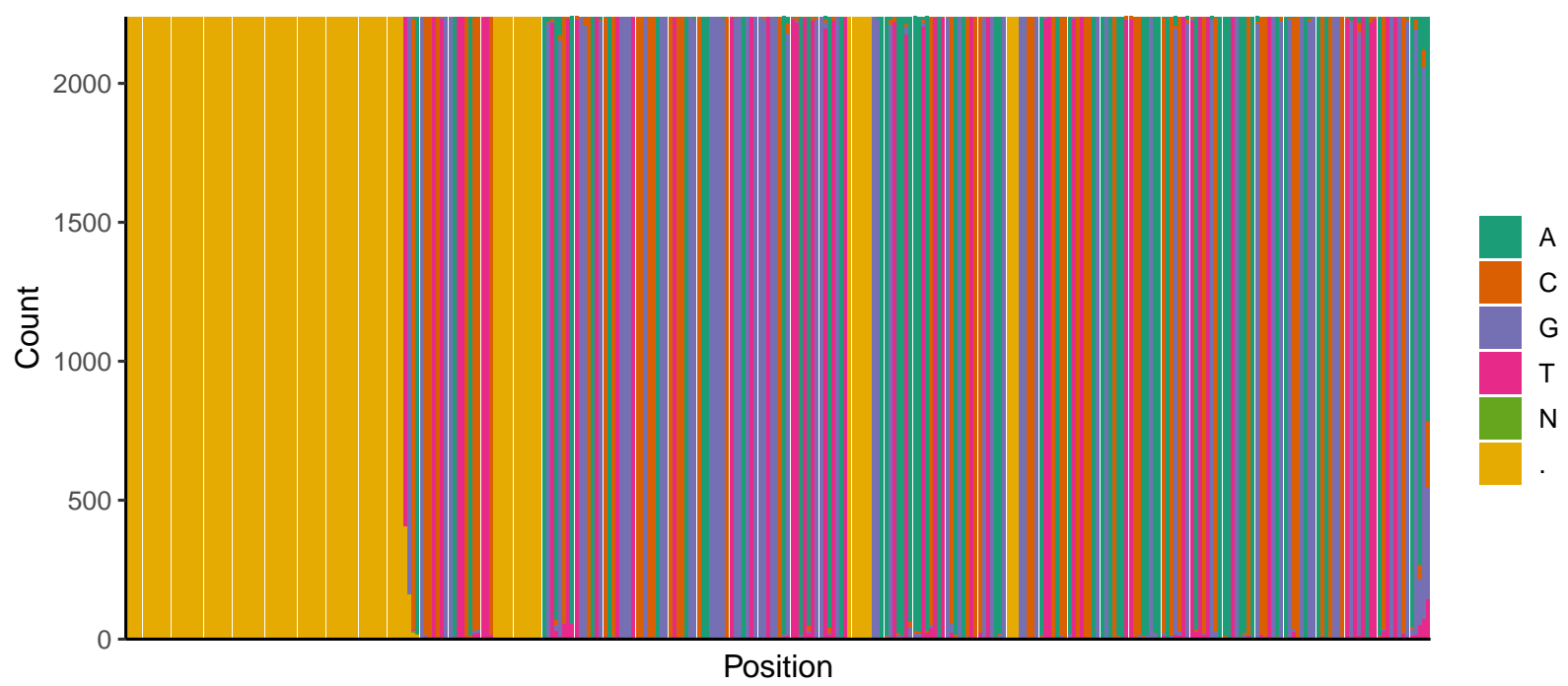


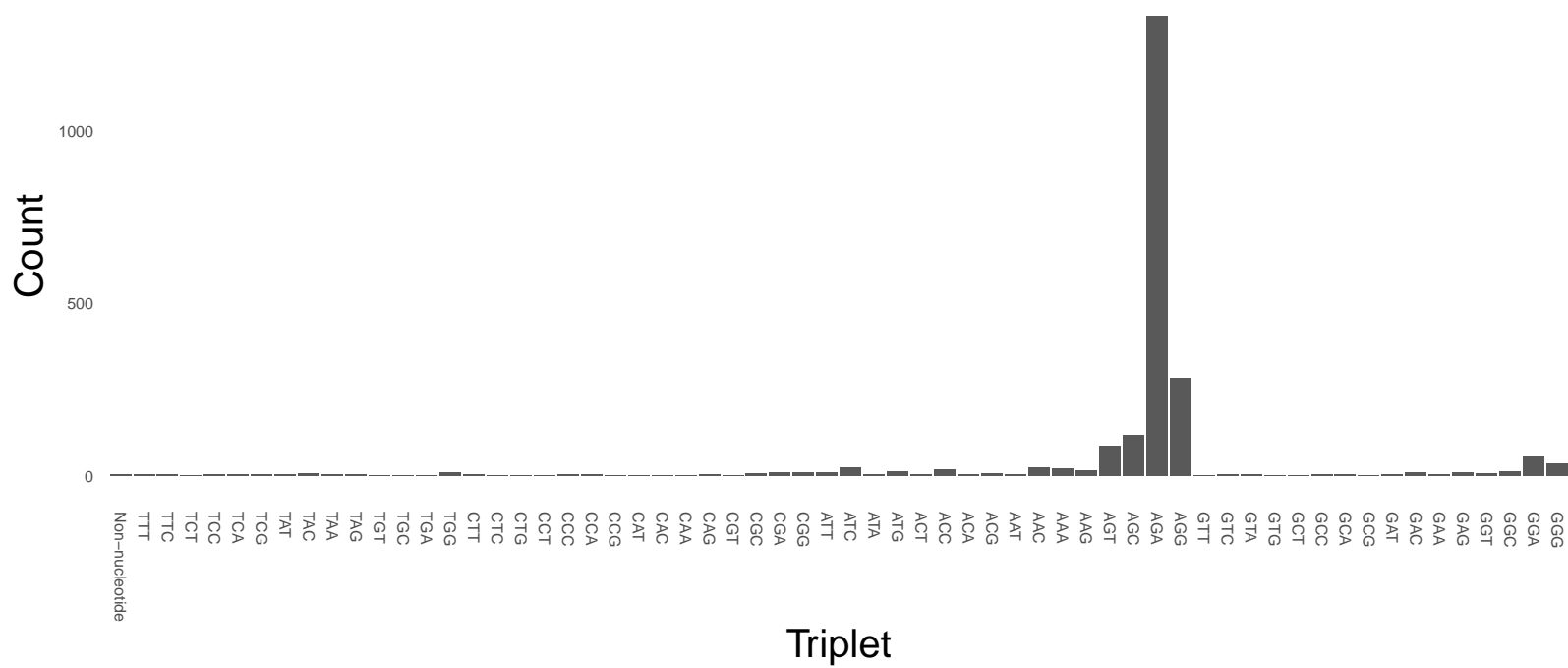
Gene IGHV3-33*01_G75C



Gene IGHV3-33*01_G75C

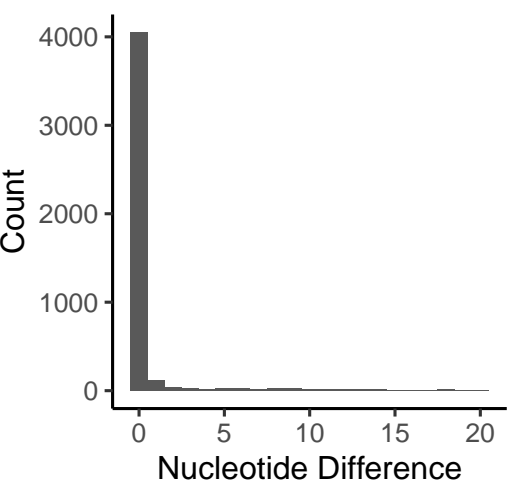


IGHV3-33*01_G75C- Final 3 nucleotides as a triplet



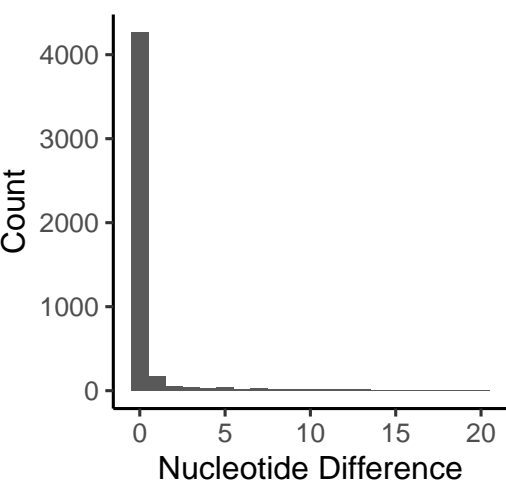
IGHV1-2*02

4566 sequences assigned
4050 (88.7%) exact matches, in which:
4031 unique CDR3
6 unique J



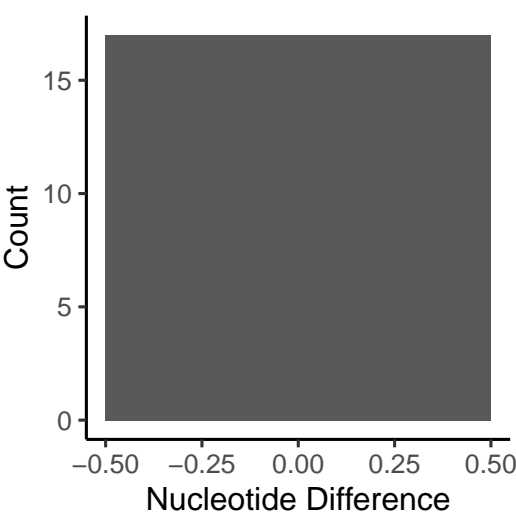
IGHV1-8*01

4807 sequences assigned
4265 (88.7%) exact matches, in which:
4249 unique CDR3
6 unique J



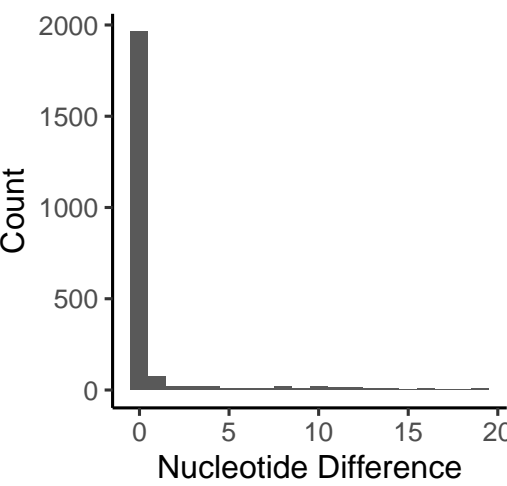
IGHV1-45*02

17 sequences assigned
17 (100%) exact matches, in which:
17 unique CDR3
3 unique J



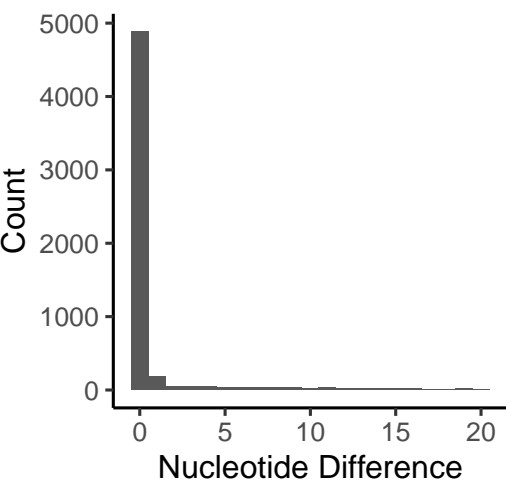
IGHV1-2*06

2256 sequences assigned
1963 (87%) exact matches, in which:
1957 unique CDR3
6 unique J



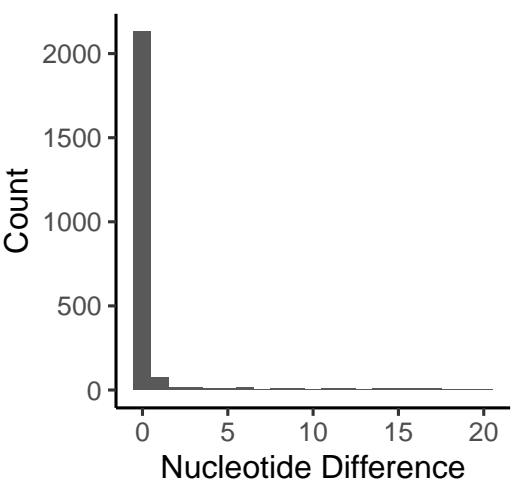
IGHV1-18*01

5617 sequences assigned
4883 (86.9%) exact matches, in which:
4866 unique CDR3
6 unique J



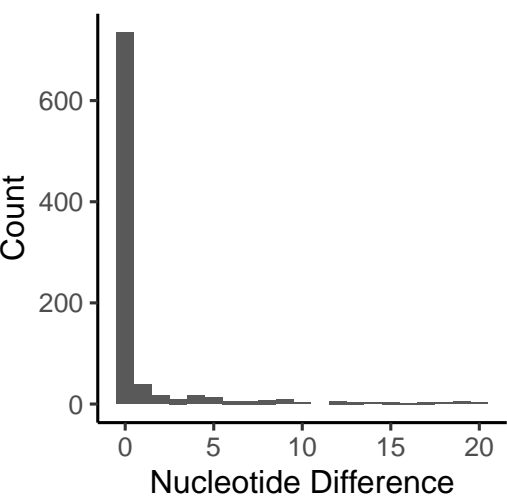
IGHV1-46*01

2375 sequences assigned
2130 (89.7%) exact matches, in which:
2121 unique CDR3
6 unique J



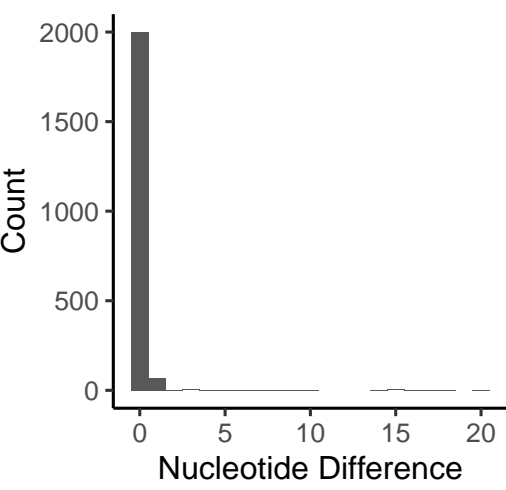
IGHV1-3*01_05

910 sequences assigned
735 (80.8%) exact matches, in which:
731 unique CDR3
6 unique J



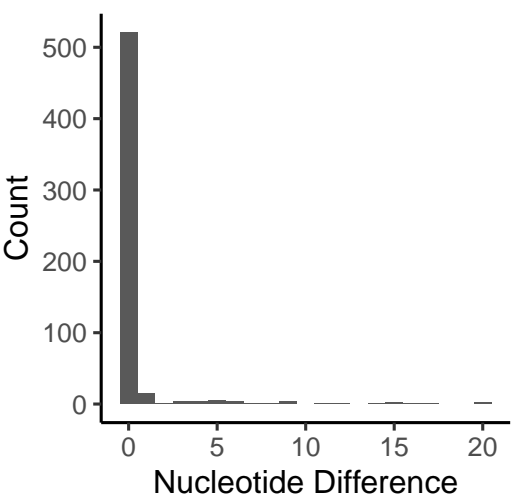
IGHV1-24*01

2106 sequences assigned
2000 (95%) exact matches, in which:
1991 unique CDR3
6 unique J



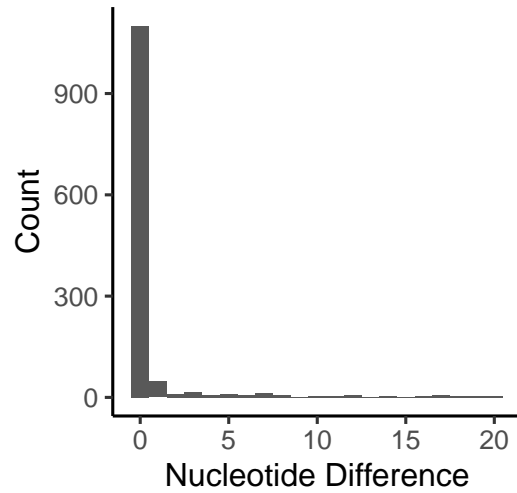
IGHV1-58*01_03

571 sequences assigned
521 (91.2%) exact matches, in which:
520 unique CDR3
6 unique J



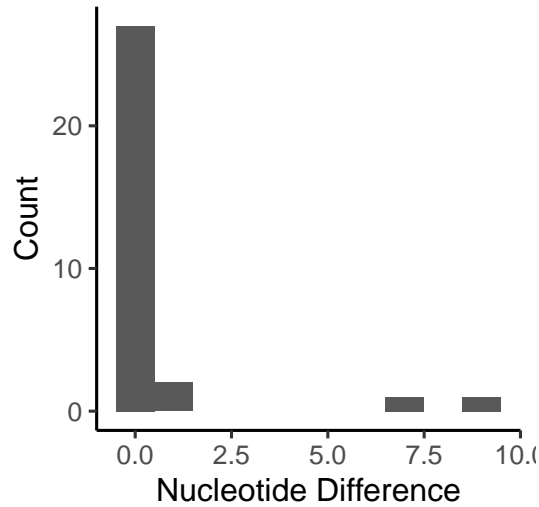
IGHV2-5*01

1273 sequences assigned
1101 (86.5%) exact matches, in which:
1093 unique CDR3
6 unique J



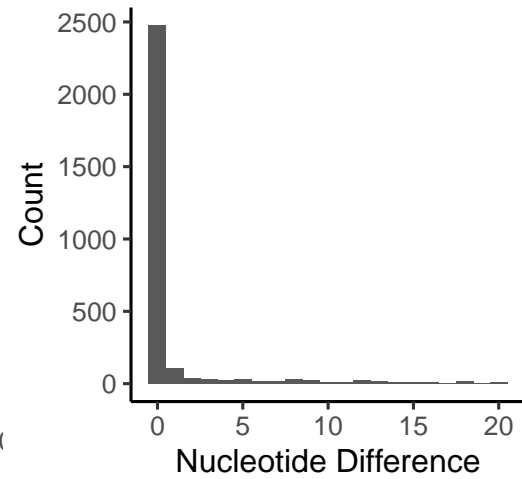
IGHV2-26*02

31 sequences assigned
27 (87.1%) exact matches, in which:
27 unique CDR3
4 unique J



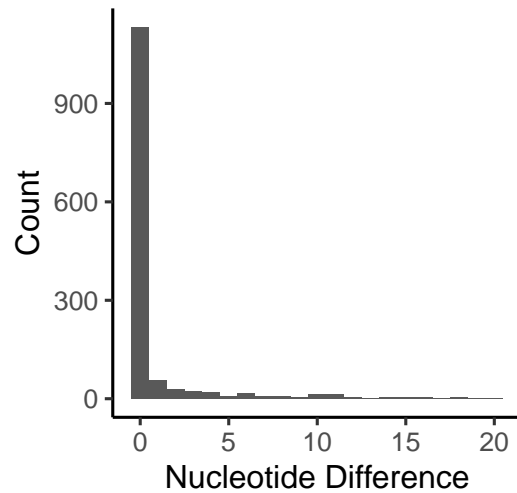
IGHV3-9*01

2983 sequences assigned
2476 (83%) exact matches, in which:
2399 unique CDR3
6 unique J



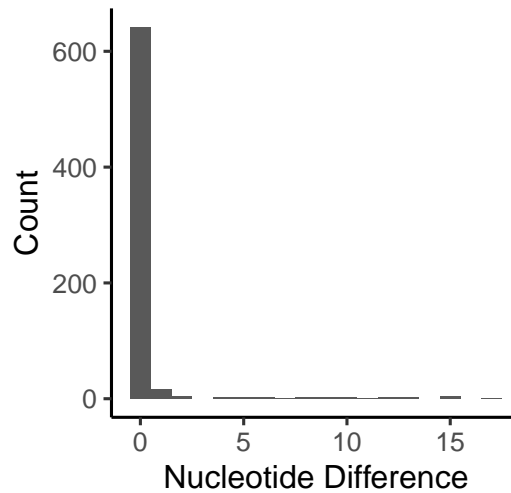
IGHV2-5*02

1395 sequences assigned
1133 (81.2%) exact matches, in which:
1125 unique CDR3
6 unique J



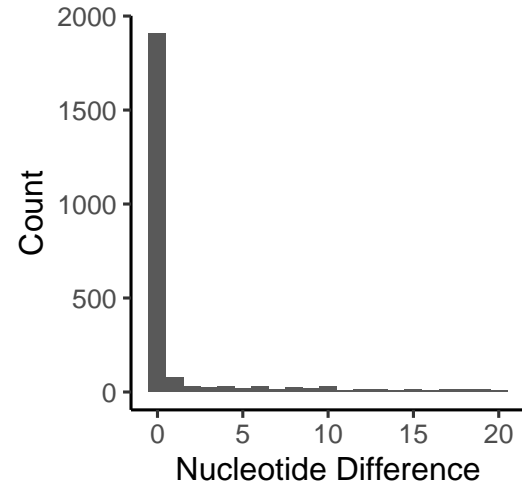
IGHV2-70*01

699 sequences assigned
642 (91.8%) exact matches, in which:
637 unique CDR3
6 unique J



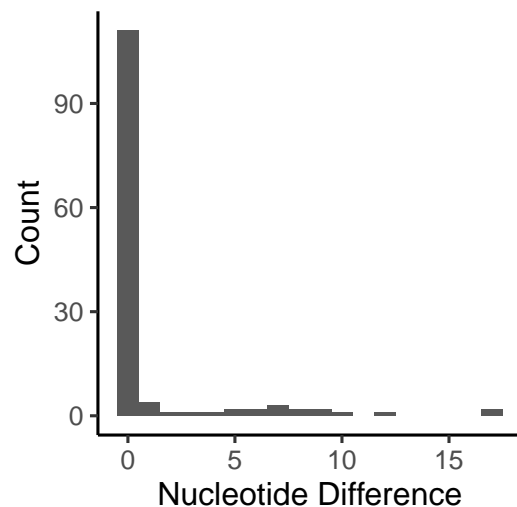
IGHV3-11*01

2353 sequences assigned
1906 (81%) exact matches, in which:
1819 unique CDR3
6 unique J



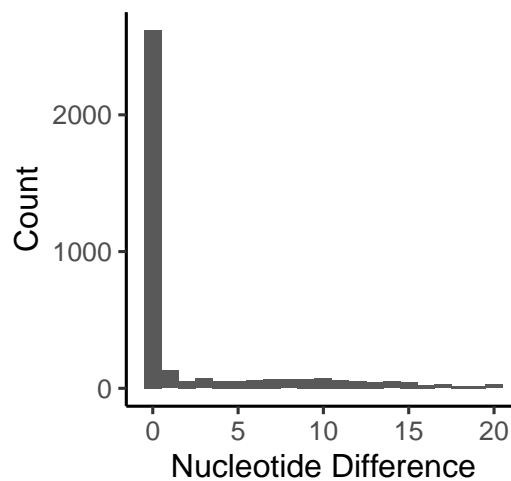
IGHV2-26*01

133 sequences assigned
111 (83.5%) exact matches, in which:
111 unique CDR3
5 unique J



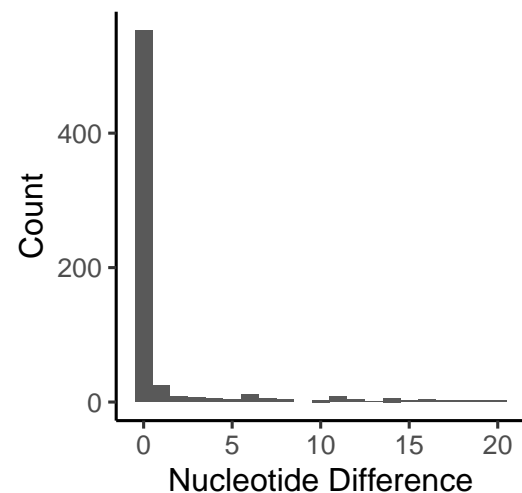
IGHV3-7*01

3800 sequences assigned
2620 (68.9%) exact matches, in which:
2493 unique CDR3
6 unique J



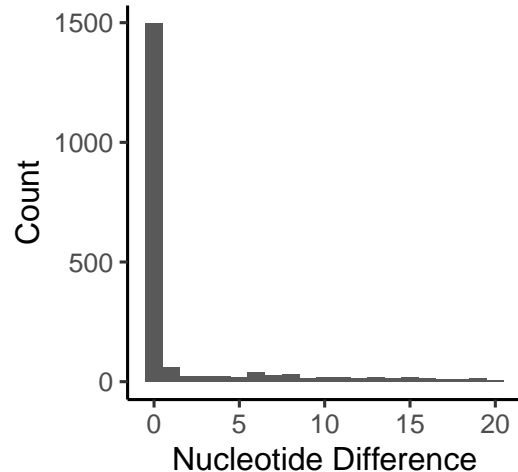
IGHV3-13*01

662 sequences assigned
553 (83.5%) exact matches, in which:
525 unique CDR3
5 unique J



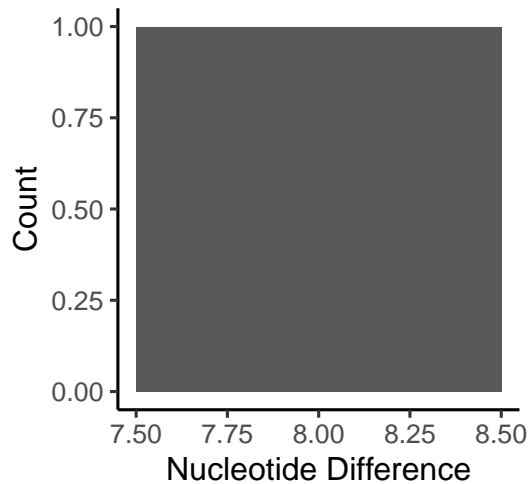
IGHV3-15*01_02

2025 sequences assigned
1497 (73.9%) exact matches, in which:
1450 unique CDR3
6 unique J



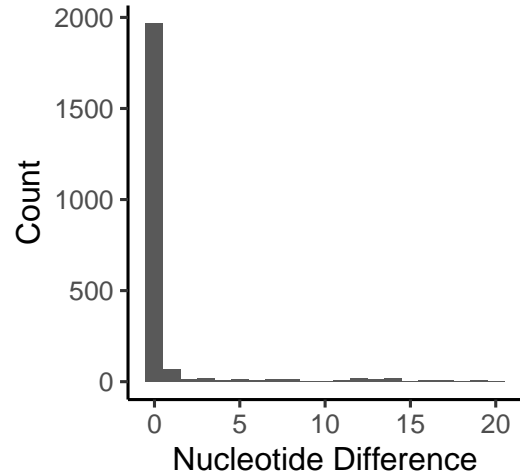
IGHV3-22*01_02

1 sequences assigned
No exact matches.



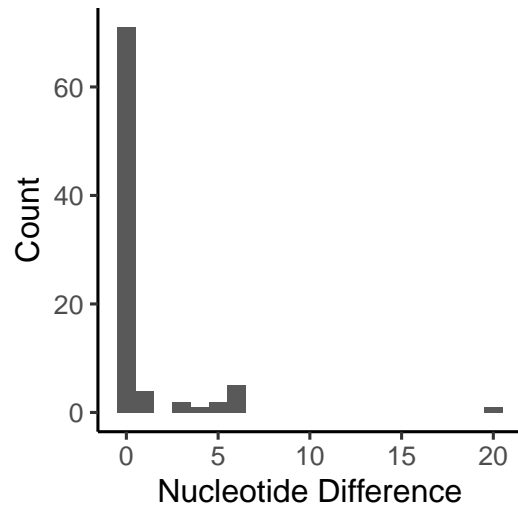
IGHV3-33*01_G75C

2240 sequences assigned
1967 (87.8%) exact matches, in which:
1884 unique CDR3
6 unique J



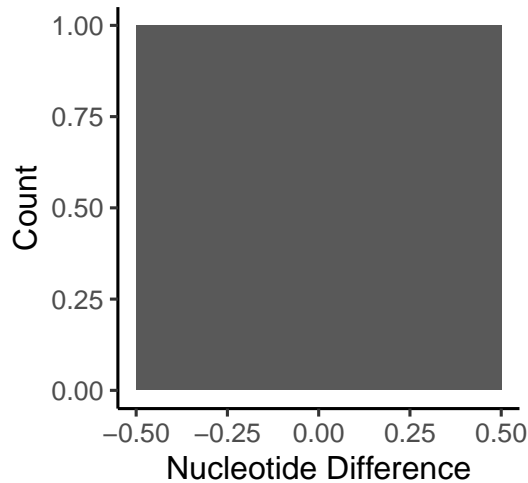
IGHV3-20*01_02

87 sequences assigned
71 (81.6%) exact matches, in which:
71 unique CDR3
6 unique J



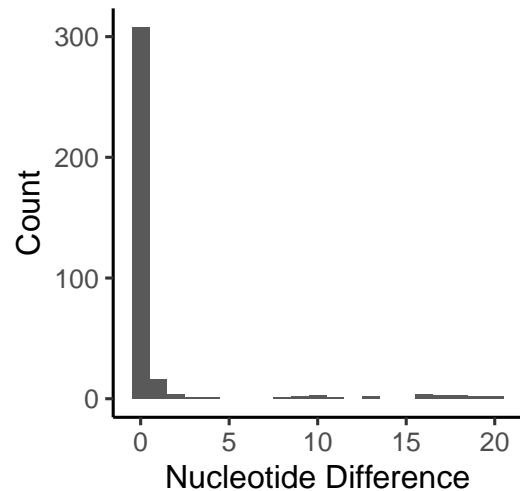
IGHV3-30-3*01

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



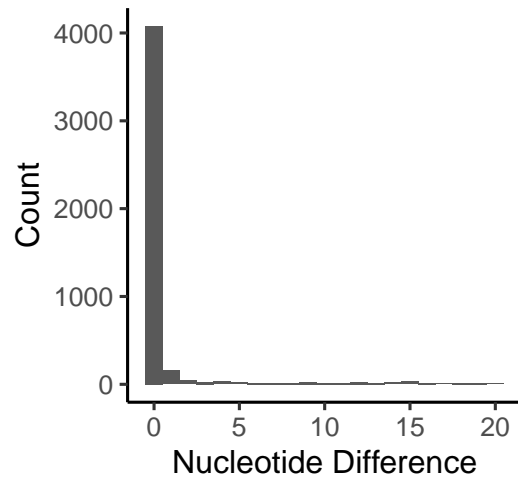
IGHV3-43*01

360 sequences assigned
308 (85.6%) exact matches, in which:
296 unique CDR3
6 unique J



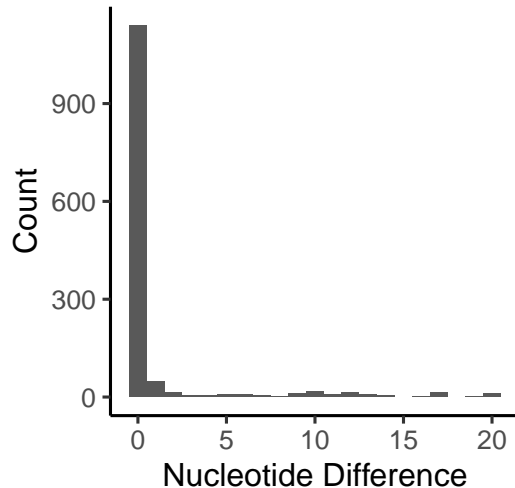
IGHV3-21*01_02

4666 sequences assigned
4079 (87.4%) exact matches, in which:
3847 unique CDR3
6 unique J



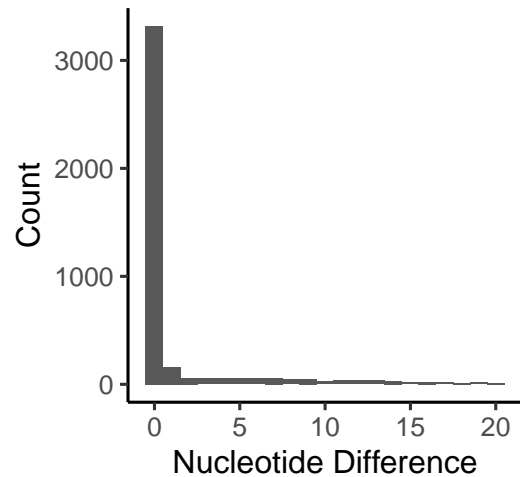
IGHV3-33*01

1342 sequences assigned
1140 (84.9%) exact matches, in which:
1103 unique CDR3
6 unique J



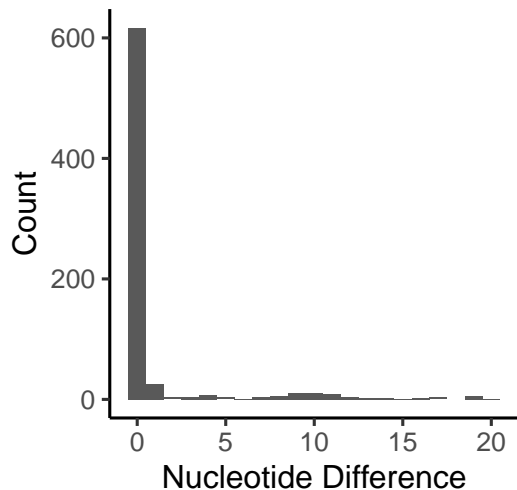
IGHV3-48*02

4224 sequences assigned
3318 (78.6%) exact matches, in which:
3122 unique CDR3
6 unique J



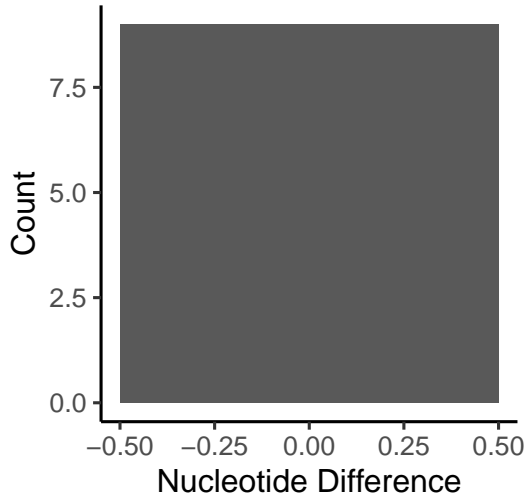
IGHV3-49*03_05

733 sequences assigned
617 (84.2%) exact matches, in which:
601 unique CDR3
6 unique J



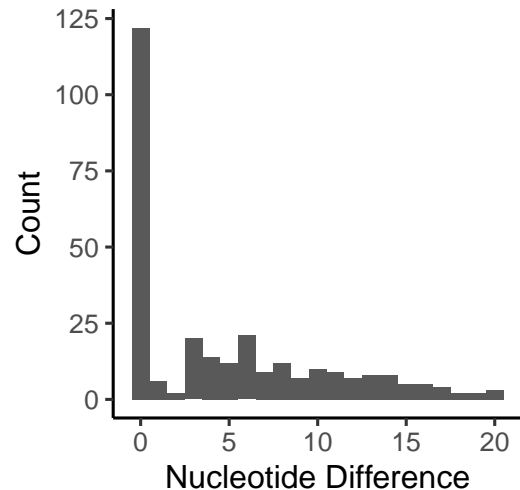
IGHV3-66*03

9 sequences assigned
9 (100%) exact matches, in which:
9 unique CDR3
3 unique J



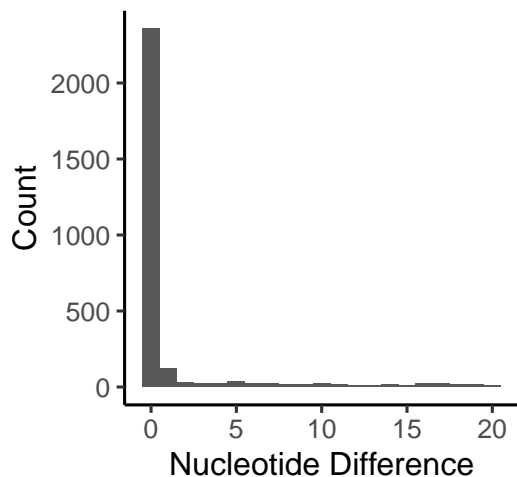
IGHV3-72*01

291 sequences assigned
122 (41.9%) exact matches, in which:
117 unique CDR3
5 unique J



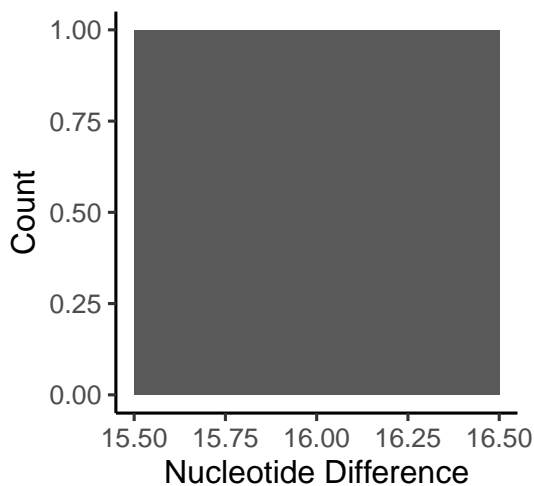
IGHV3-53*01_02

2904 sequences assigned
2357 (81.2%) exact matches, in which:
2201 unique CDR3
6 unique J



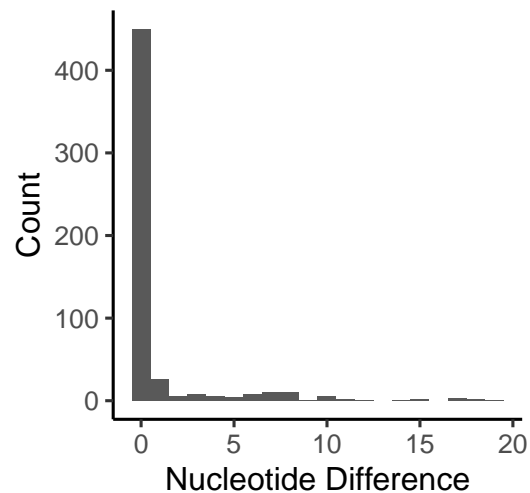
IGHV3-69-1*01

1 sequences assigned
No exact matches.



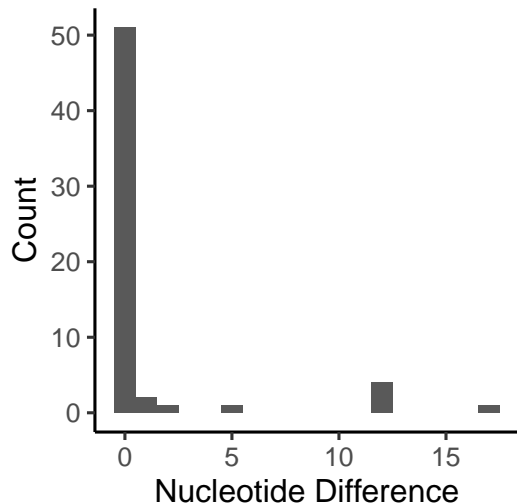
IGHV3-73*01_02

556 sequences assigned
450 (80.9%) exact matches, in which:
422 unique CDR3
6 unique J



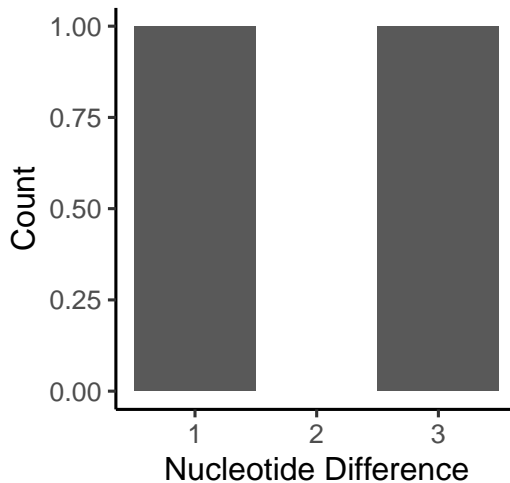
IGHV3-64*02_07

62 sequences assigned
51 (82.3%) exact matches, in which:
46 unique CDR3
5 unique J



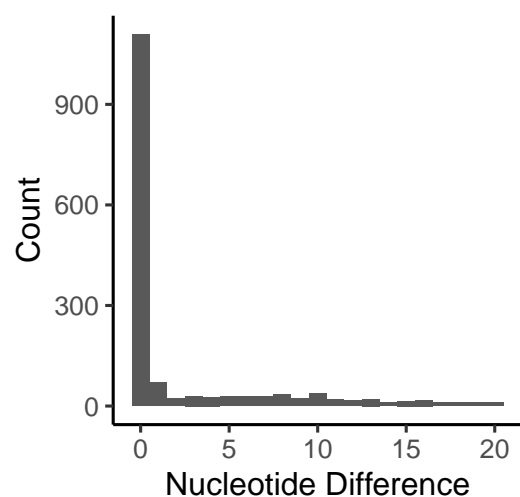
IGHV3-69-1*02

2 sequences assigned
No exact matches.



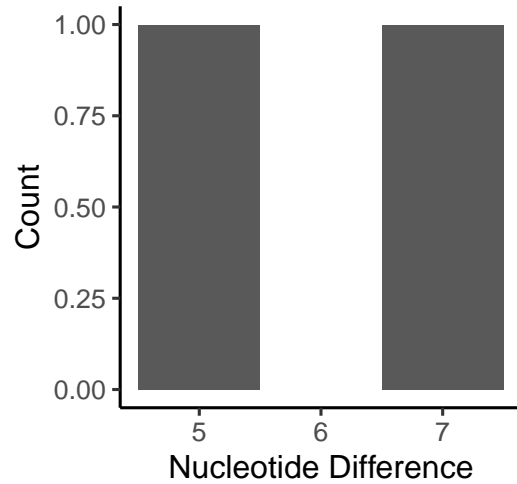
IGHV3-74*01_02

1631 sequences assigned
1109 (68%) exact matches, in which:
1038 unique CDR3
6 unique J



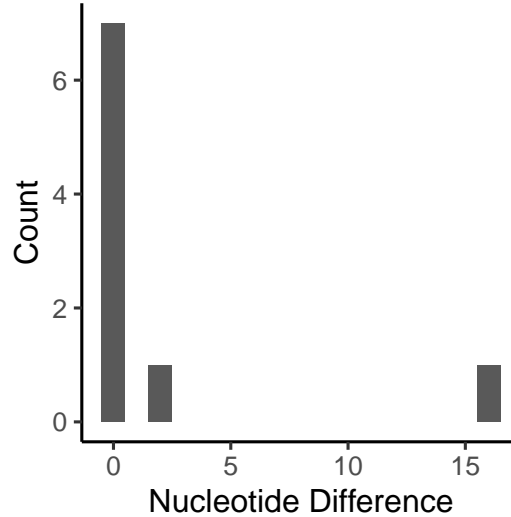
IGHV3-64D*09

2 sequences assigned
No exact matches.



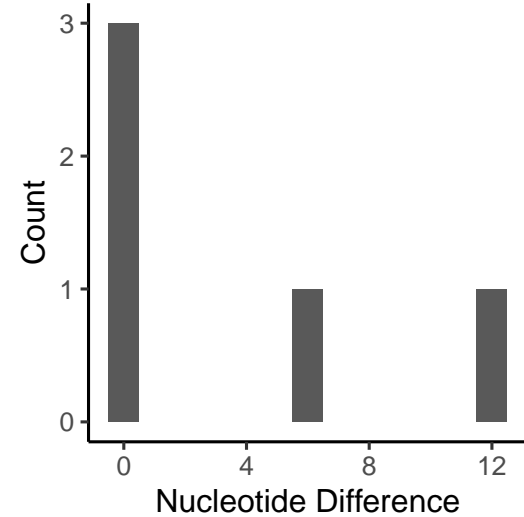
IGHV4-28*01_07

10 sequences assigned
7 (70%) exact matches, in which:
7 unique CDR3
4 unique J



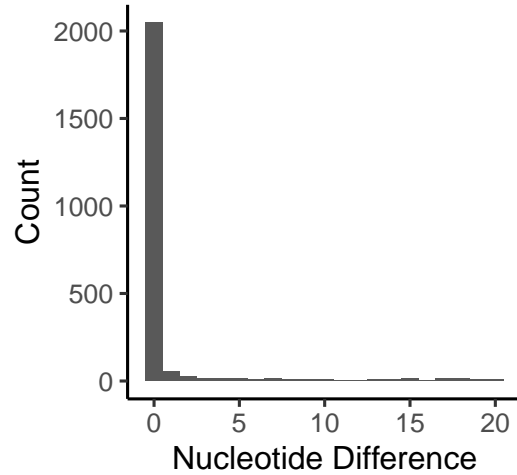
IGHV4-30-2*01

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



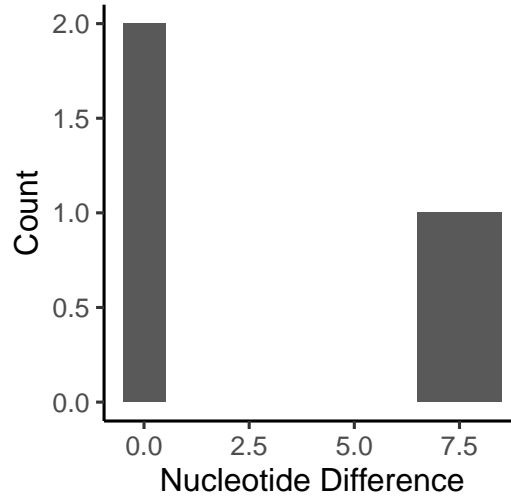
IGHV4-4*07

2339 sequences assigned
2047 (87.5%) exact matches, in which:
1915 unique CDR3
6 unique J



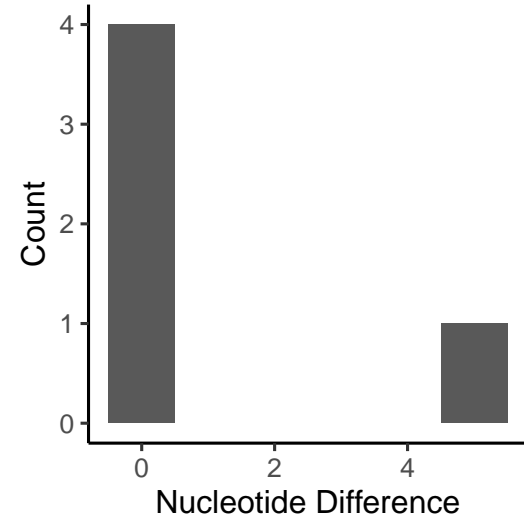
IGHV4-28*02_05

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



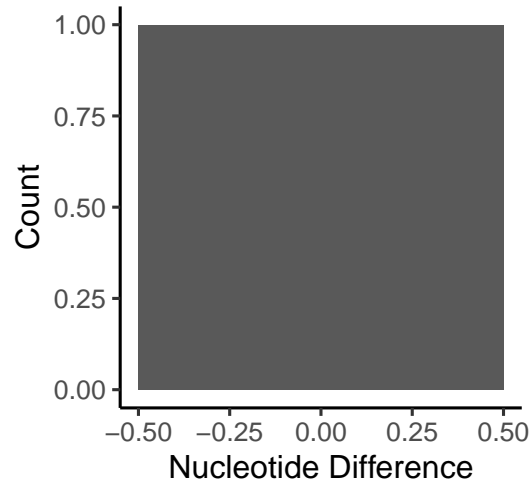
IGHV4-31*03_04

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



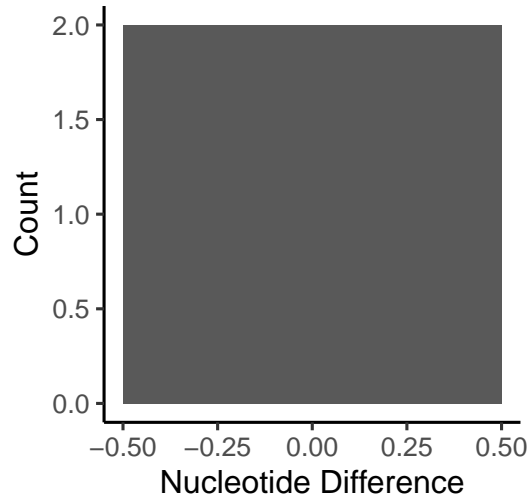
IGHV4-28*03

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



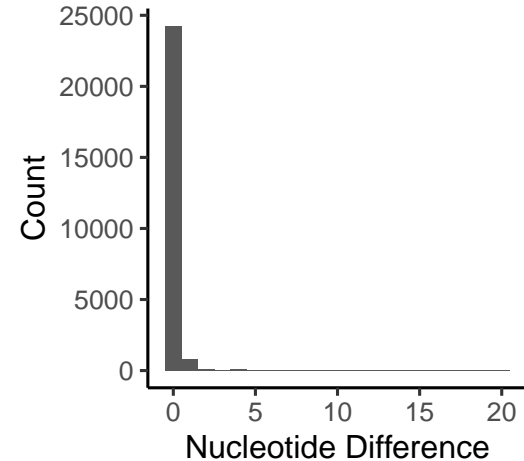
IGHV4-30-4*01

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
2 unique J



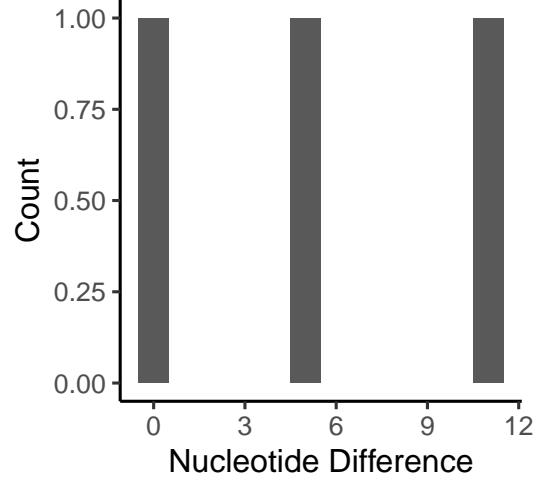
IGHV4-34*01_02

25832 sequences assigned
24262 (93.9%) exact matches, in which:
22407 unique CDR3
6 unique J



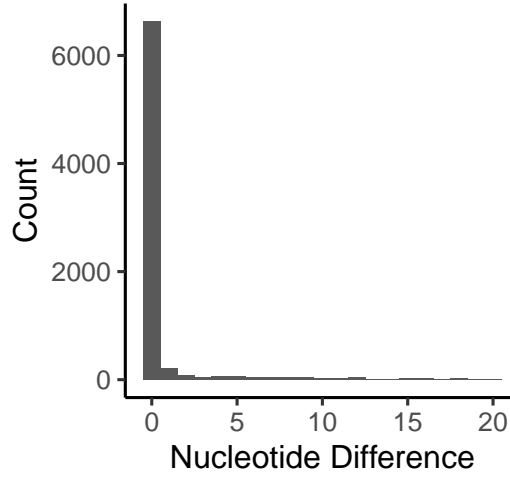
IGHV4-38-2*01

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



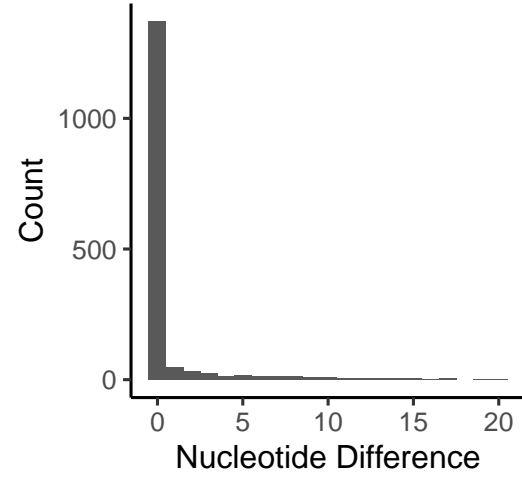
IGHV4-59*01_07

7614 sequences assigned
6630 (87.1%) exact matches, in which:
6272 unique CDR3
6 unique J



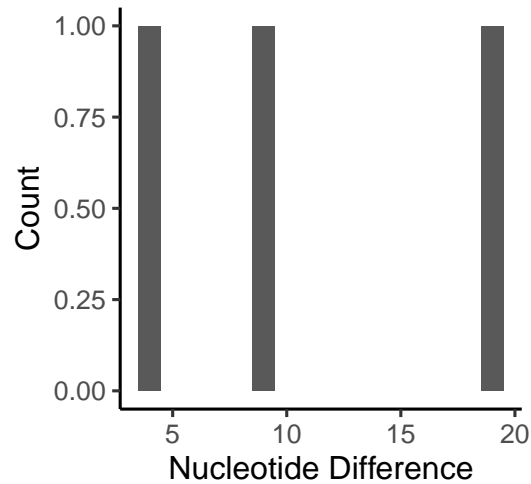
IGHV6-1*01_02

1630 sequences assigned
1371 (84.1%) exact matches, in which:
1365 unique CDR3
6 unique J



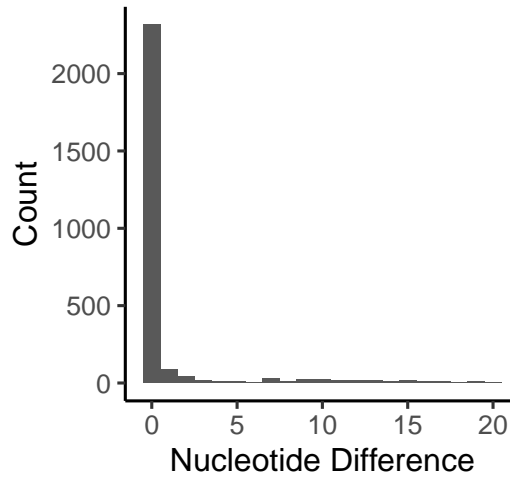
IGHV4-38-2*02

3 sequences assigned
No exact matches.



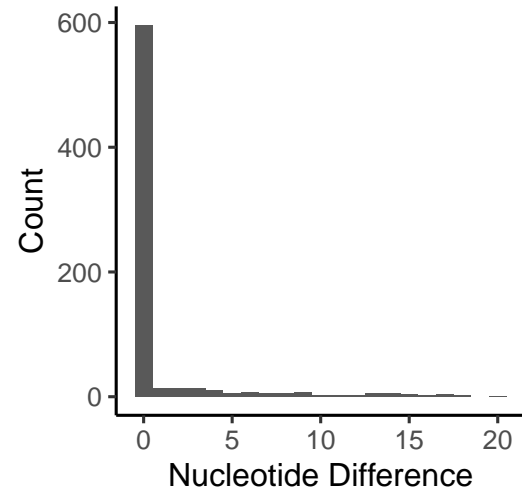
IGHV4-61*01

2719 sequences assigned
2316 (85.2%) exact matches, in which:
2208 unique CDR3
6 unique J



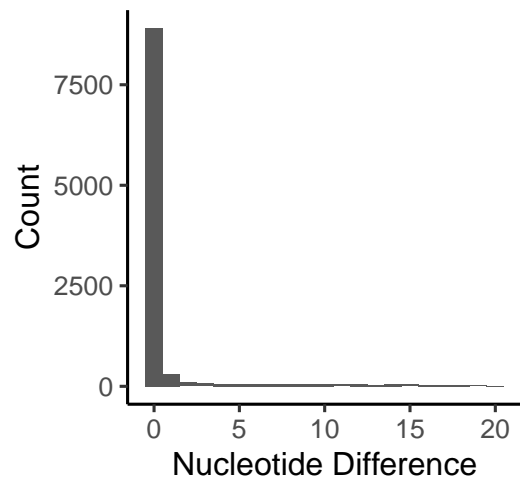
IGHV7-4-1*02

719 sequences assigned
596 (82.9%) exact matches, in which:
595 unique CDR3
6 unique J



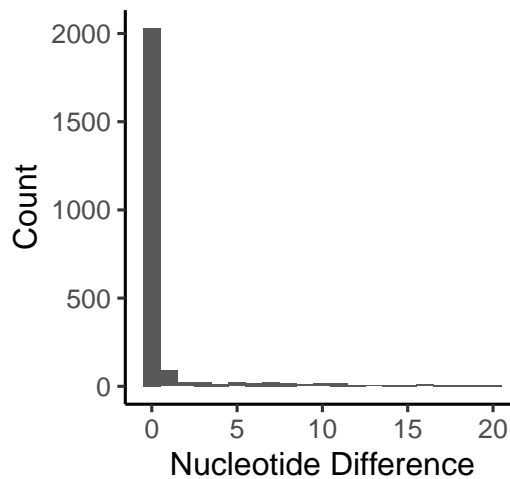
IGHV4-39*01_05

10361 sequences assigned
8910 (86%) exact matches, in which:
8542 unique CDR3
6 unique J



IGHV5-51*01_03

2401 sequences assigned
2031 (84.6%) exact matches, in which:
2025 unique CDR3
6 unique J





Warning – no inferred sequences found.

Novel sequence(s) IGHV3–11*06_T300C IGHV4–38–2*02_A70G 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) IGHV4–39*02_C258G 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) 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.

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.