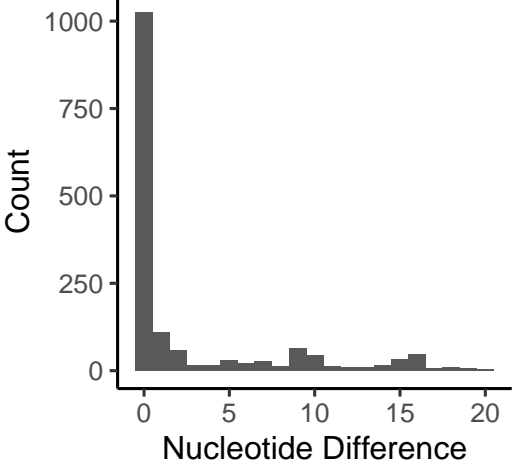


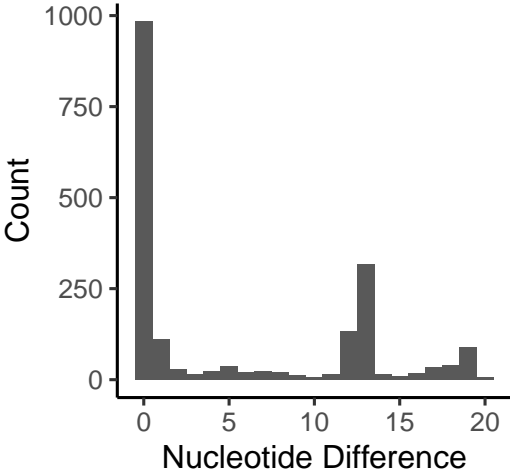
IGHV1-2*02

1713 sequences assigned
1025 (59.8%) exact matches, in which:
1006 unique CDR3
7 unique J



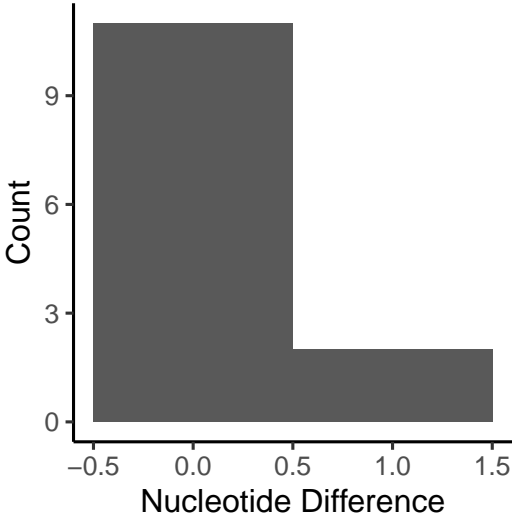
IGHV1-8*01

1991 sequences assigned
984 (49.4%) exact matches, in which:
972 unique CDR3
7 unique J



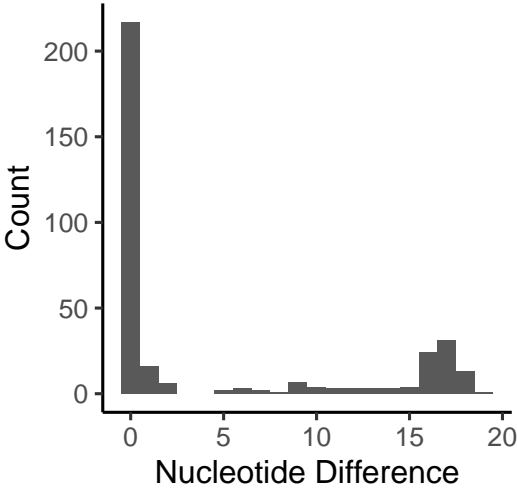
IGHV1-45*02

14 sequences assigned
11 (78.6%) exact matches, in which:
11 unique CDR3
4 unique J



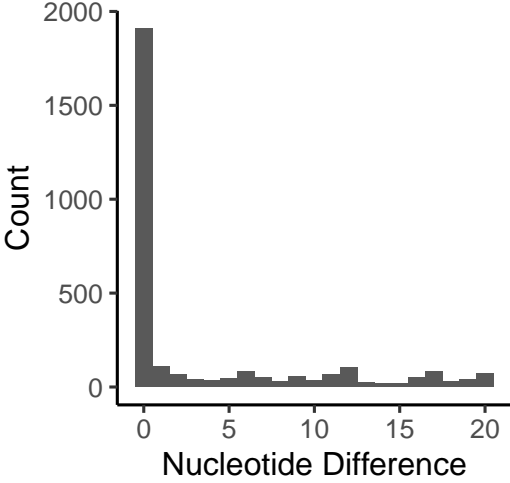
IGHV1-2*04

347 sequences assigned
217 (62.5%) exact matches, in which:
213 unique CDR3
6 unique J



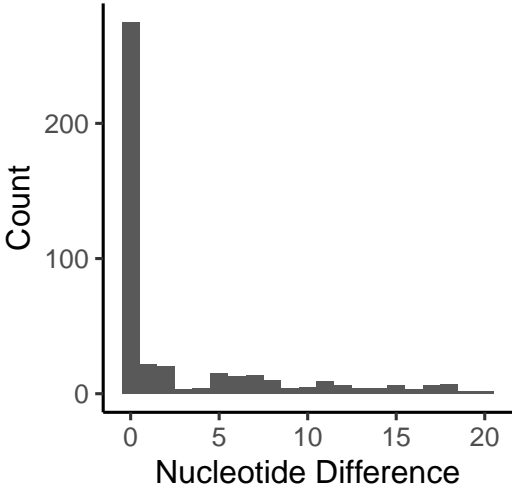
IGHV1-18*01

3215 sequences assigned
1908 (59.3%) exact matches, in which:
1877 unique CDR3
7 unique J



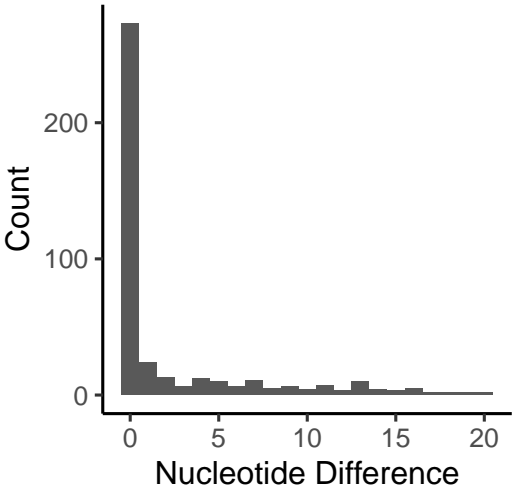
IGHV1-46*01

469 sequences assigned
275 (58.6%) exact matches, in which:
272 unique CDR3
7 unique J



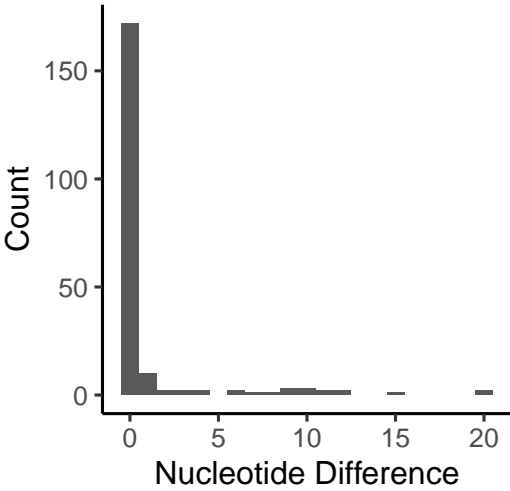
IGHV1-3*01_05

424 sequences assigned
273 (64.4%) exact matches, in which:
269 unique CDR3
7 unique J



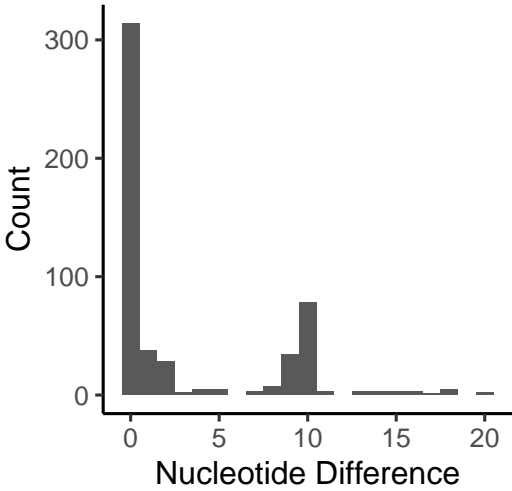
IGHV1-24*01

221 sequences assigned
172 (77.8%) exact matches, in which:
169 unique CDR3
7 unique J



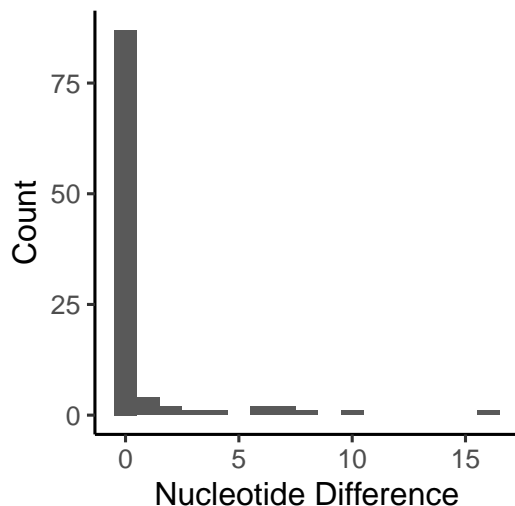
IGHV1-46*03

550 sequences assigned
314 (57.1%) exact matches, in which:
310 unique CDR3
5 unique J



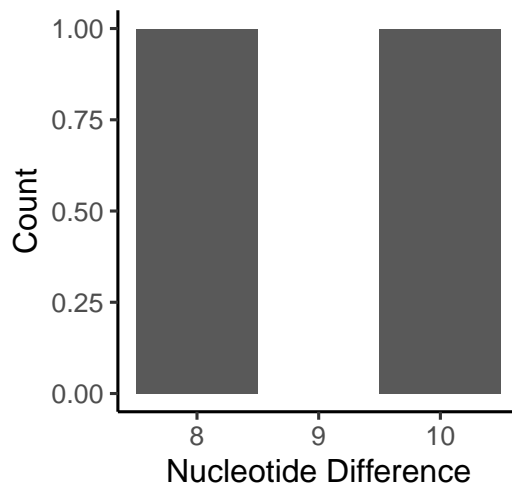
IGHV1-58*02

103 sequences assigned
87 (84.5%) exact matches, in which:
86 unique CDR3
7 unique J



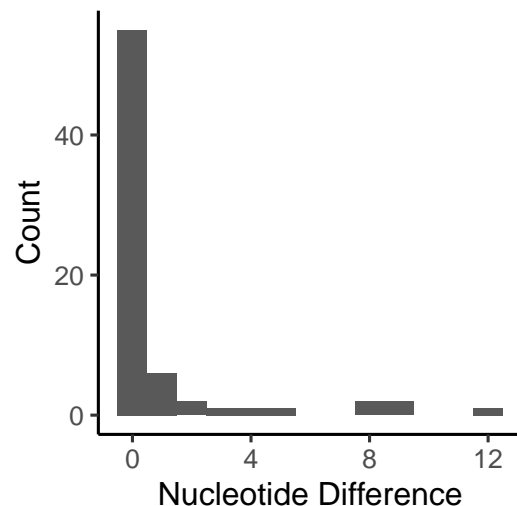
IGHV1-NL1*01

2 sequences assigned
No exact matches.



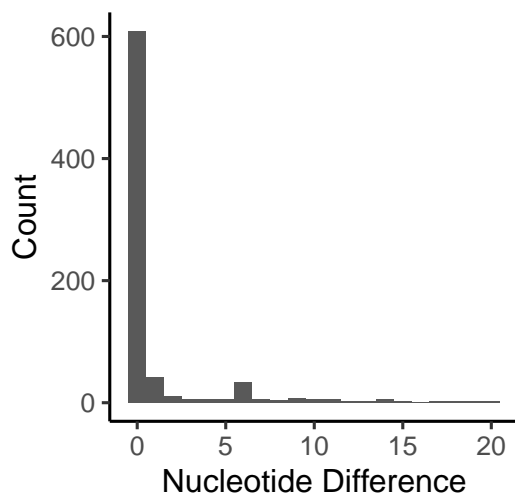
IGHV2-26*01

71 sequences assigned
55 (77.5%) exact matches, in which:
55 unique CDR3
4 unique J



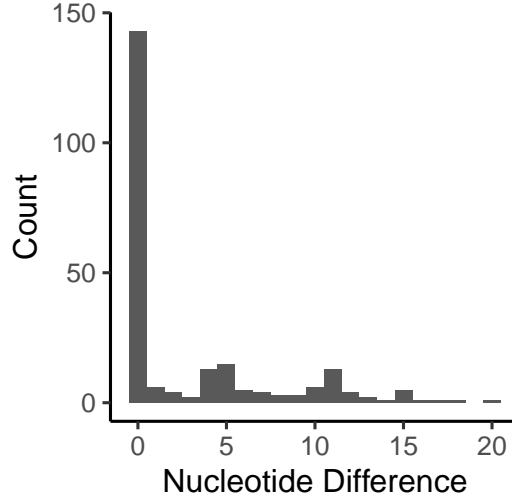
IGHV1-69*04_09

815 sequences assigned
609 (74.7%) exact matches, in which:
601 unique CDR3
7 unique J



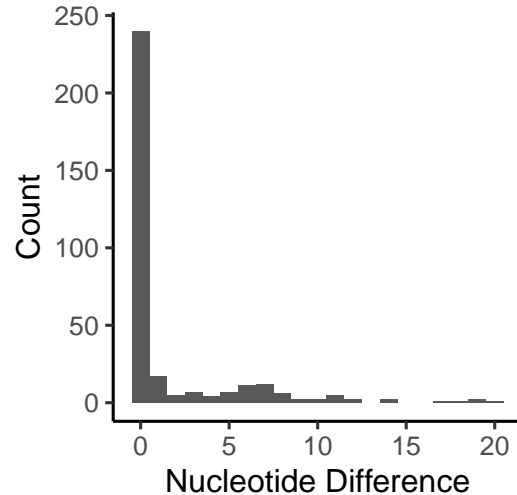
IGHV2-5*01

289 sequences assigned
143 (49.5%) exact matches, in which:
140 unique CDR3
6 unique J



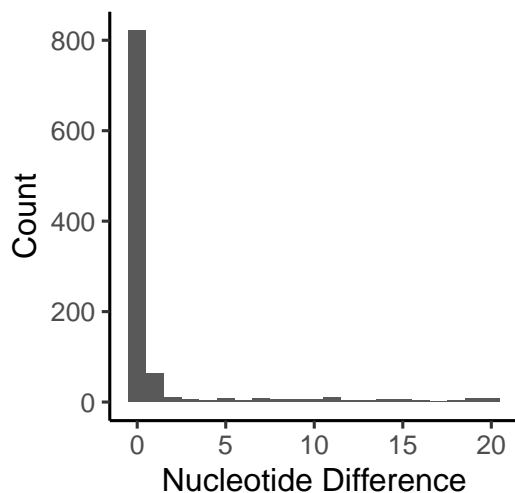
IGHV2-70*11_15

360 sequences assigned
240 (66.7%) exact matches, in which:
236 unique CDR3
6 unique J



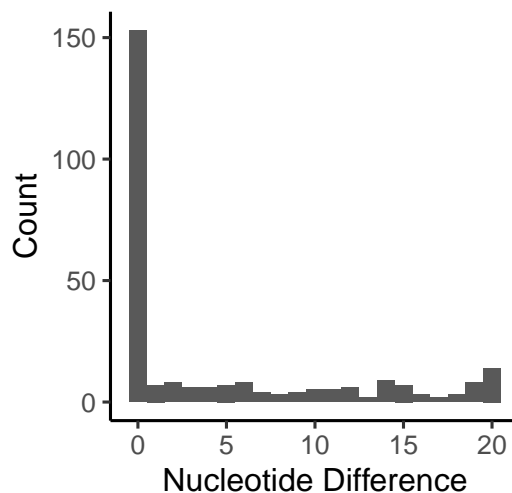
IGHV1-69*04_09_G112A

1118 sequences assigned
822 (73.5%) exact matches, in which:
821 unique CDR3
7 unique J



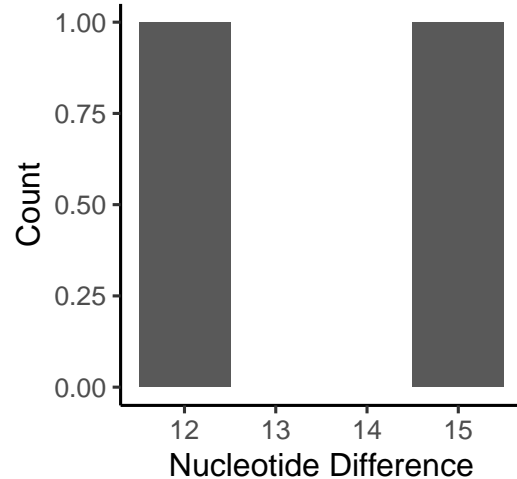
IGHV2-5*02

290 sequences assigned
153 (52.8%) exact matches, in which:
151 unique CDR3
7 unique J



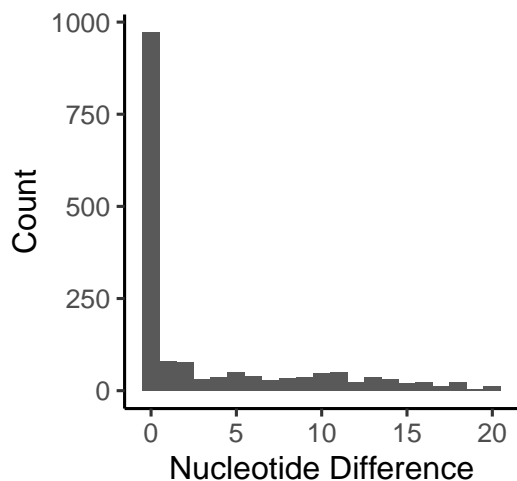
IGHV2-70D*04

2 sequences assigned
No exact matches.



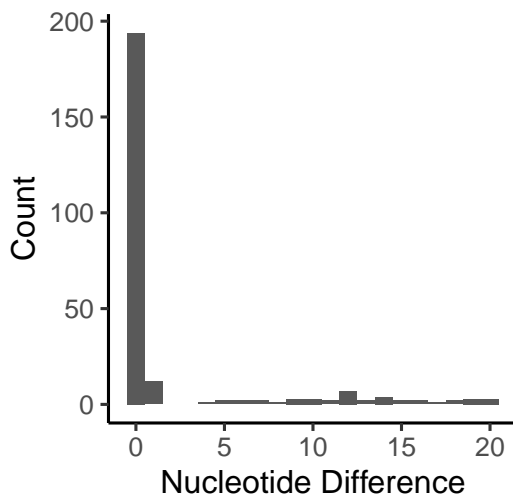
IGHV3-7*01

1847 sequences assigned
972 (52.6%) exact matches, in which:
644 unique CDR3
7 unique J



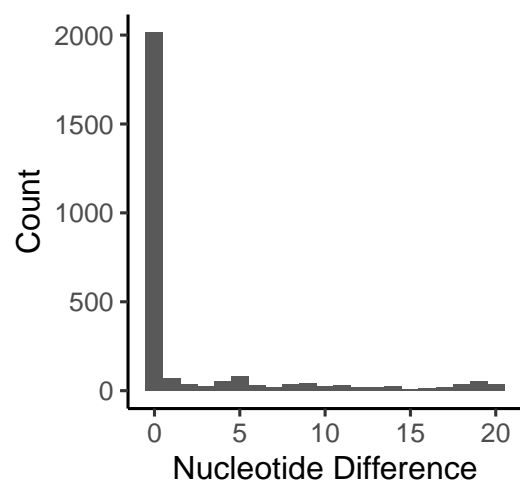
IGHV3-13*01

488 sequences assigned
194 (39.8%) exact matches, in which:
119 unique CDR3
6 unique J



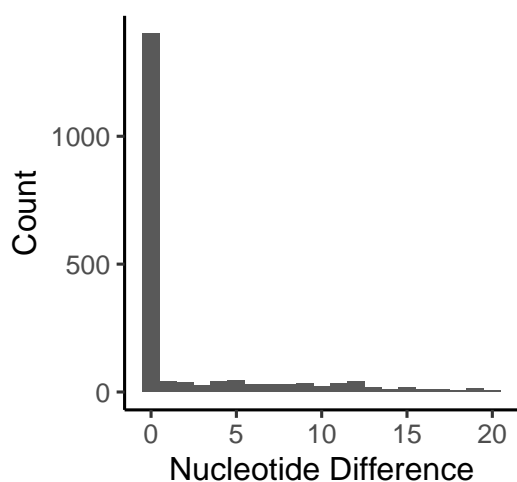
IGHV3-21*01_02

2823 sequences assigned
2015 (71.4%) exact matches, in which:
1295 unique CDR3
7 unique J



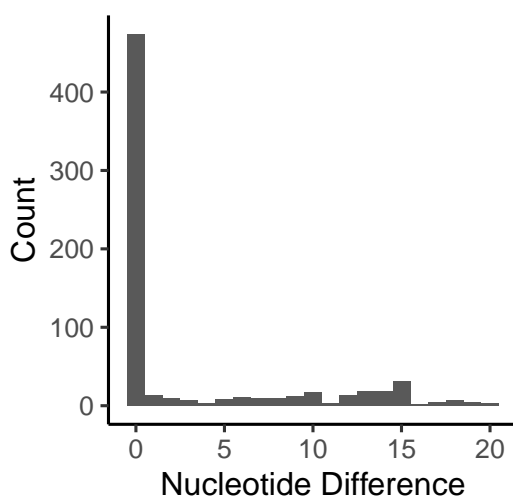
IGHV3-9*01

1994 sequences assigned
1401 (70.3%) exact matches, in which:
911 unique CDR3
7 unique J



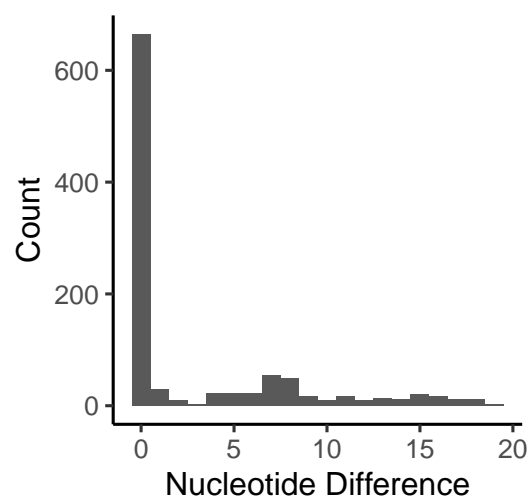
IGHV3-15*01_02

734 sequences assigned
474 (64.6%) exact matches, in which:
346 unique CDR3
7 unique J



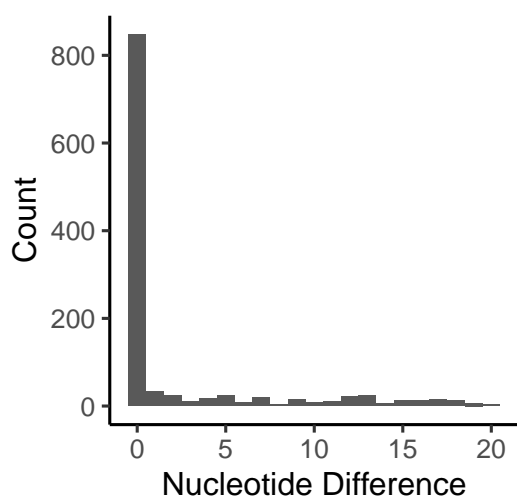
IGHV3-23*03

1107 sequences assigned
665 (60.1%) exact matches, in which:
456 unique CDR3
7 unique J



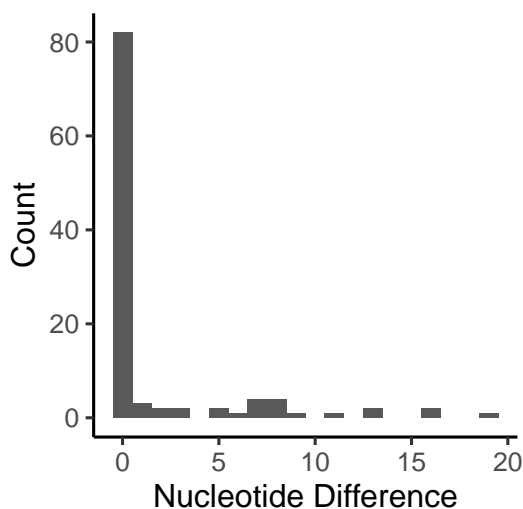
IGHV3-11*01

1617 sequences assigned
848 (52.4%) exact matches, in which:
564 unique CDR3
7 unique J



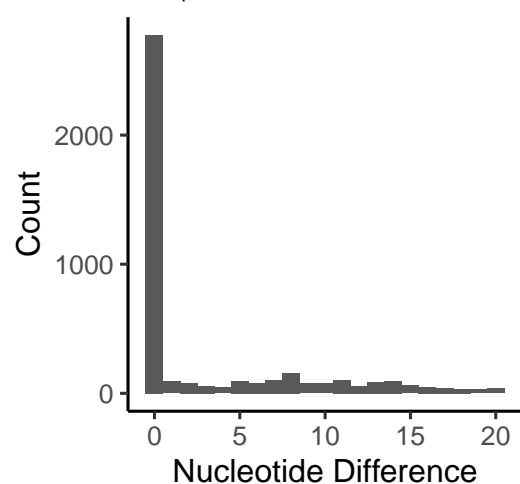
IGHV3-20*01_02

107 sequences assigned
82 (76.6%) exact matches, in which:
55 unique CDR3
6 unique J



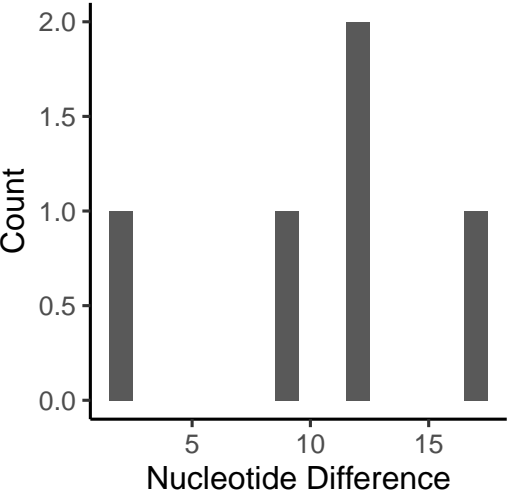
IGHV3-23*01_04

4646 sequences assigned
2775 (59.7%) exact matches, in which:
1792 unique CDR3
7 unique J



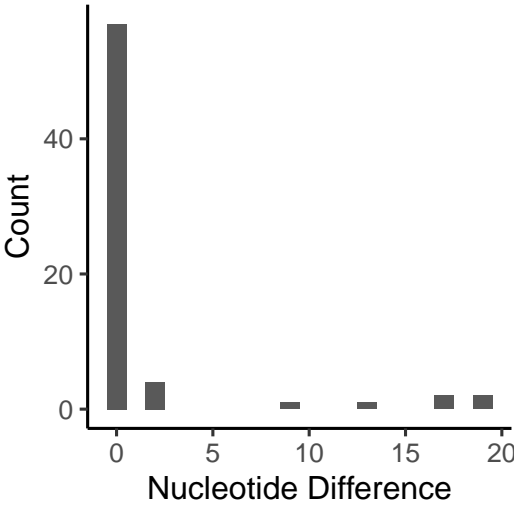
IGHV3-30-3*03

11 sequences assigned
No exact matches.



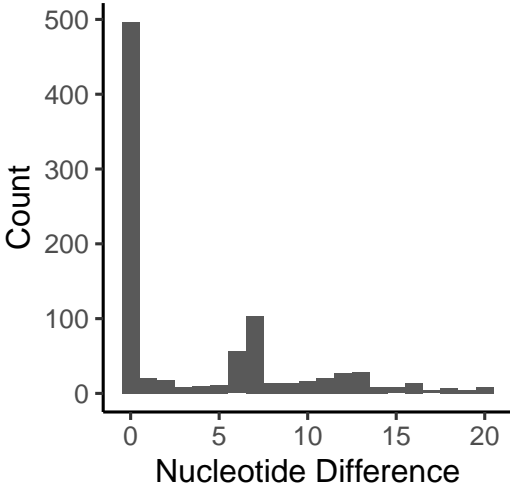
IGHV3-43*01

75 sequences assigned
57 (76%) exact matches, in which:
42 unique CDR3
6 unique J



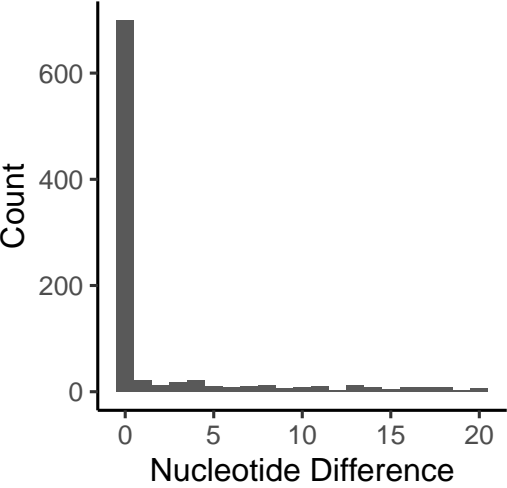
IGHV3-48*02

1059 sequences assigned
497 (46.9%) exact matches, in which:
319 unique CDR3
6 unique J



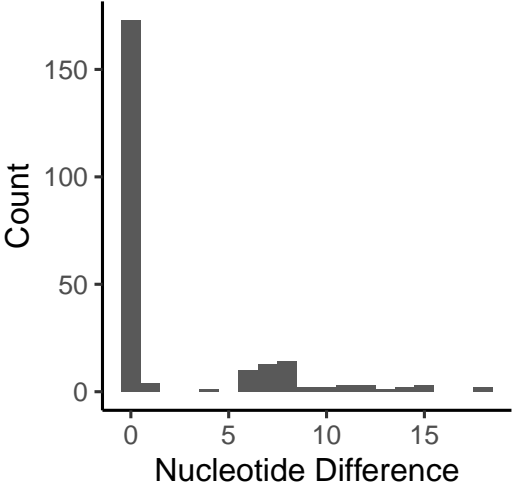
IGHV3-33*01

944 sequences assigned
700 (74.2%) exact matches, in which:
489 unique CDR3
7 unique J



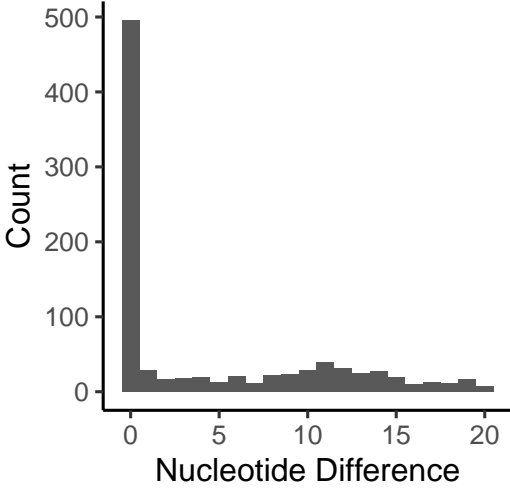
IGHV3-43*02

248 sequences assigned
173 (69.8%) exact matches, in which:
112 unique CDR3
6 unique J



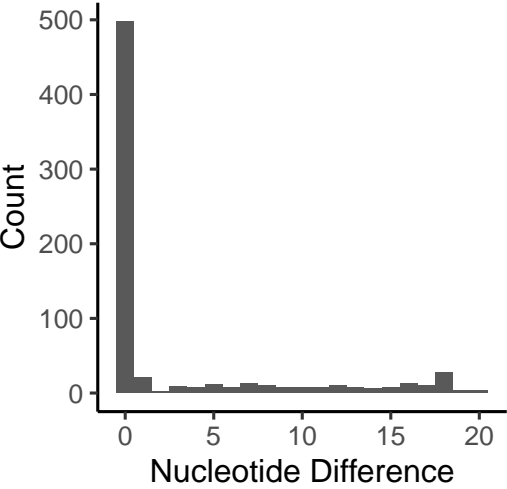
IGHV3-48*03

964 sequences assigned
496 (51.5%) exact matches, in which:
342 unique CDR3
7 unique J



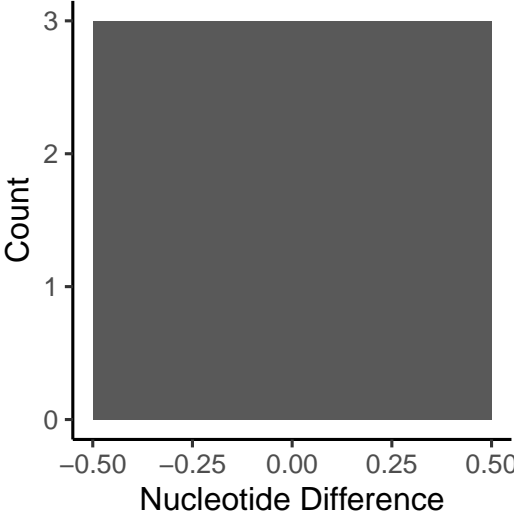
IGHV3-33*08

734 sequences assigned
498 (67.8%) exact matches, in which:
353 unique CDR3
7 unique J



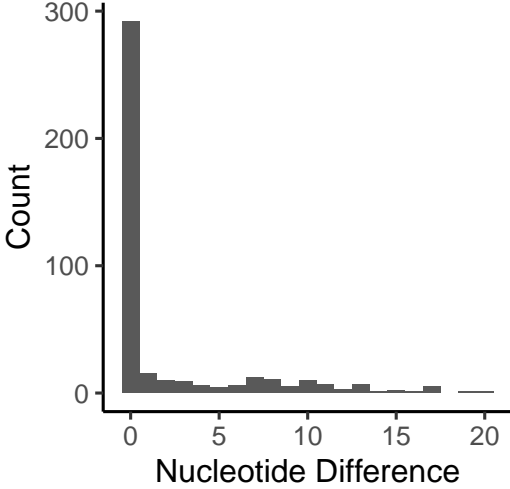
IGHV3-47*01

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



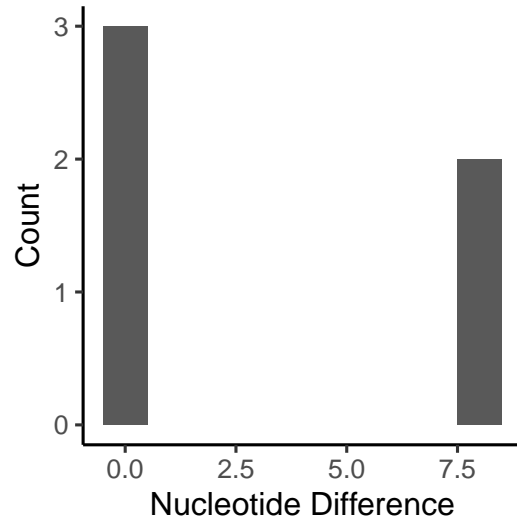
IGHV3-49*04

444 sequences assigned
292 (65.8%) exact matches, in which:
215 unique CDR3
6 unique J



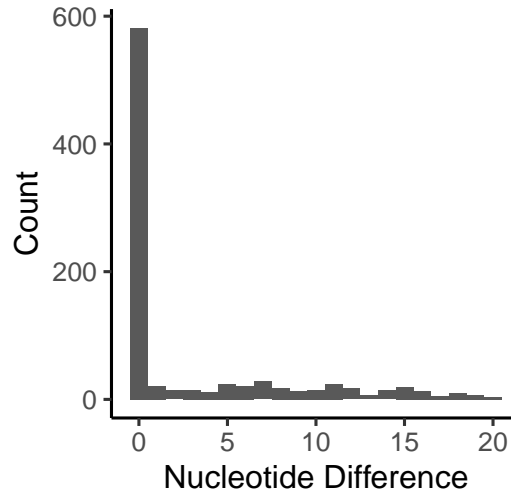
IGHV3-52*01_03

5 sequences assigned
3 (60%) exact matches, in which:
2 unique CDR3
2 unique J



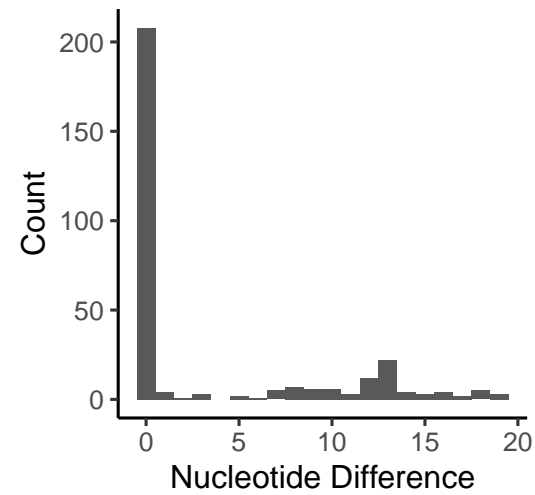
IGHV3-66*01

978 sequences assigned
582 (59.5%) exact matches, in which:
362 unique CDR3
7 unique J



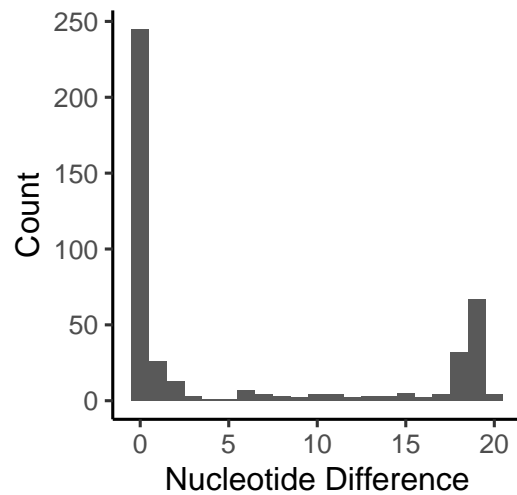
IGHV3-73*01_02

315 sequences assigned
208 (66%) exact matches, in which:
147 unique CDR3
5 unique J



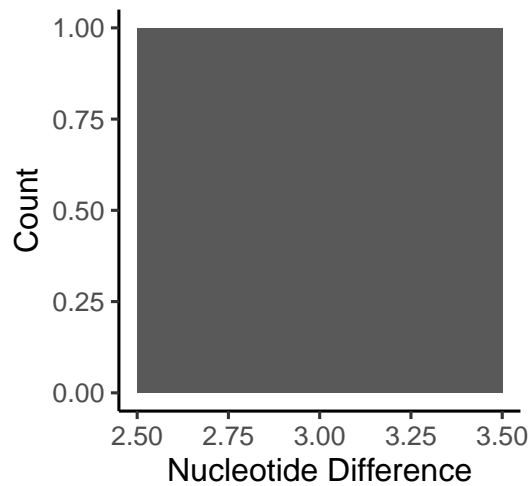
IGHV3-53*04

454 sequences assigned
245 (54%) exact matches, in which:
159 unique CDR3
6 unique J



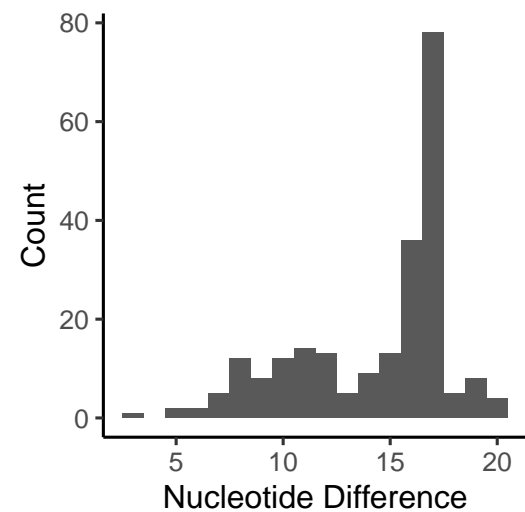
IGHV3-69-1*01

1 sequences assigned
No exact matches.



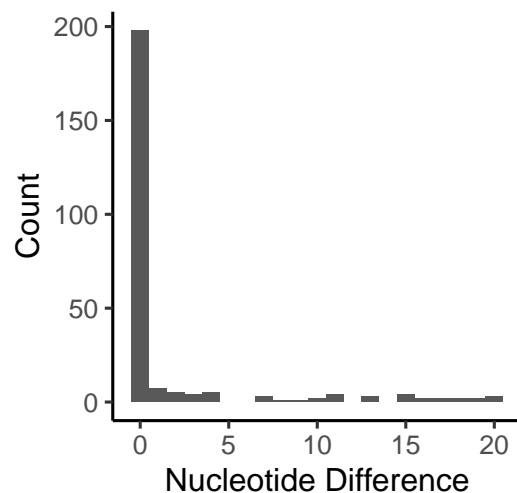
IGHV3-74*03

264 sequences assigned
No exact matches.



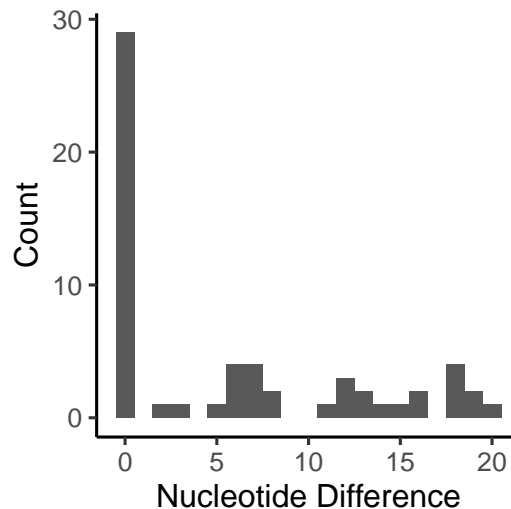
IGHV3-64*01

261 sequences assigned
198 (75.9%) exact matches, in which:
129 unique CDR3
6 unique J



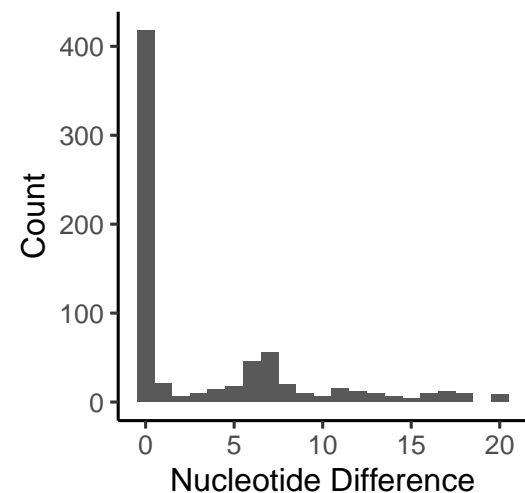
IGHV3-72*01

74 sequences assigned
29 (39.2%) exact matches, in which:
21 unique CDR3
6 unique J



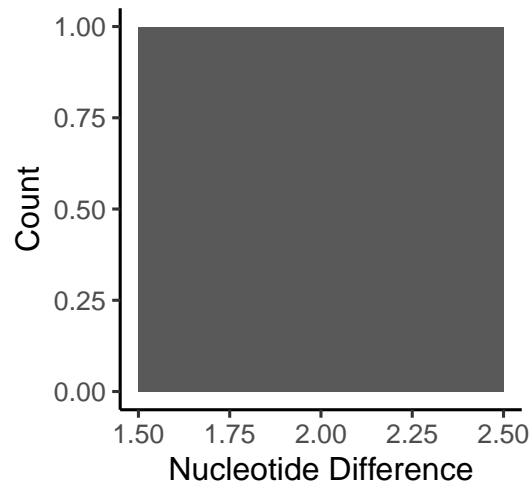
IGHV3-74*01_02

743 sequences assigned
418 (56.3%) exact matches, in which:
260 unique CDR3
7 unique J



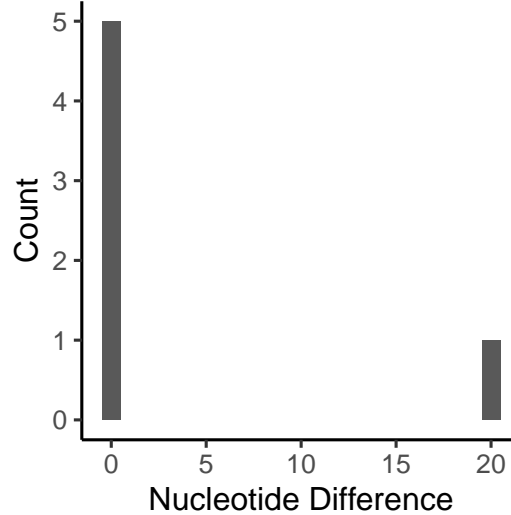
IGHV3–NL1*01

1 sequences assigned
No exact matches.



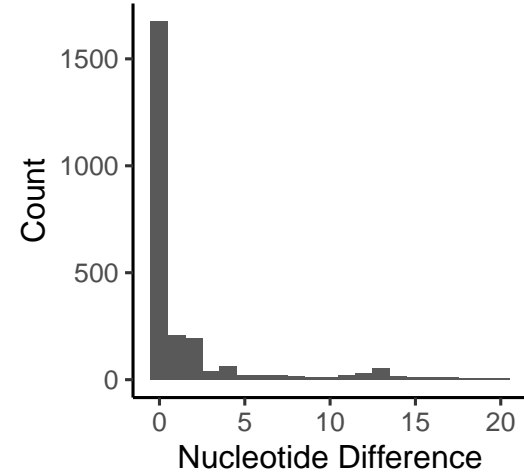
IGHV4–28*01_07

6 sequences assigned
5 (83.3%) exact matches, in which:
4 unique CDR3
3 unique J



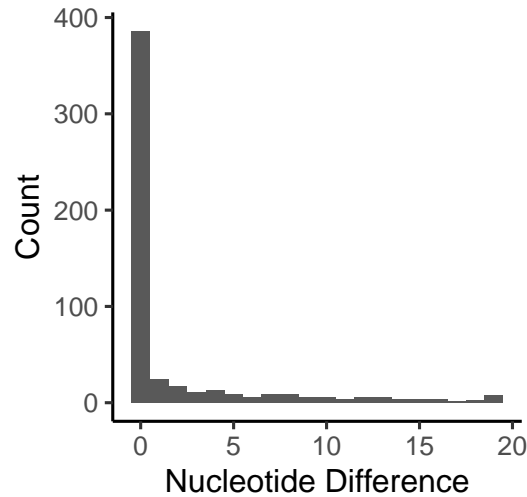
IGHV4–34*01_02

2536 sequences assigned
1675 (66%) exact matches, in which:
1598 unique CDR3
7 unique J



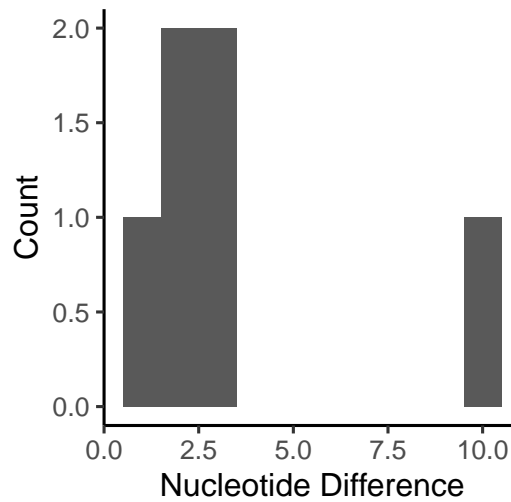
IGHV4–4*07

732 sequences assigned
386 (52.7%) exact matches, in which:
382 unique CDR3
7 unique J



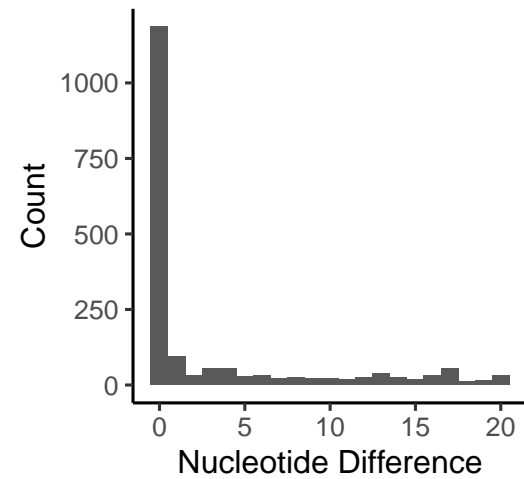
IGHV4–30–2*03

6 sequences assigned
No exact matches.



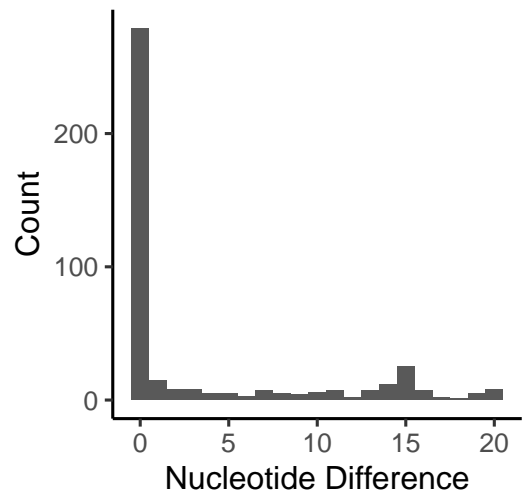
IGHV4–39*02_C258G

2072 sequences assigned
1186 (57.2%) exact matches, in which:
1140 unique CDR3
7 unique J



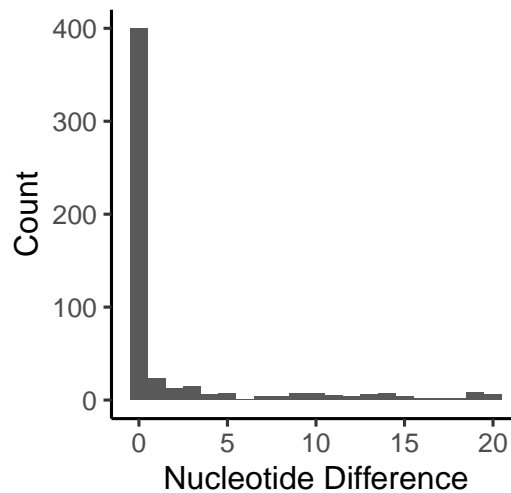
IGHV4–4*02_03

461 sequences assigned
279 (60.5%) exact matches, in which:
269 unique CDR3
7 unique J



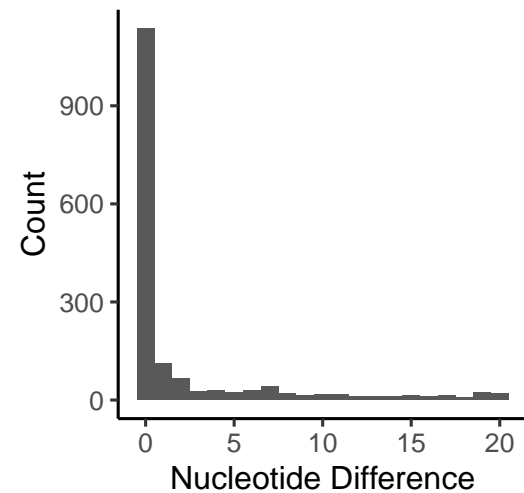
IGHV4–31*02

601 sequences assigned
400 (66.6%) exact matches, in which:
395 unique CDR3
7 unique J



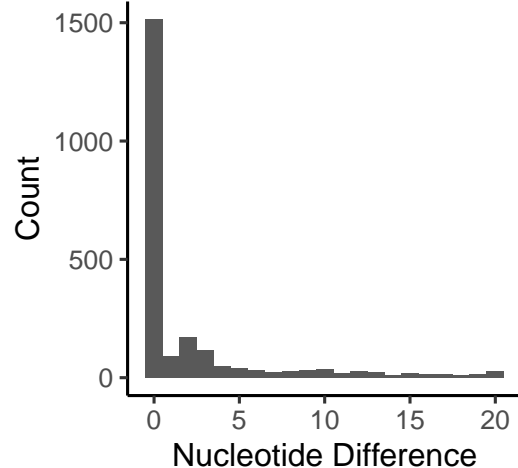
IGHV4–59*08

1971 sequences assigned
1137 (57.7%) exact matches, in which:
1107 unique CDR3
7 unique J



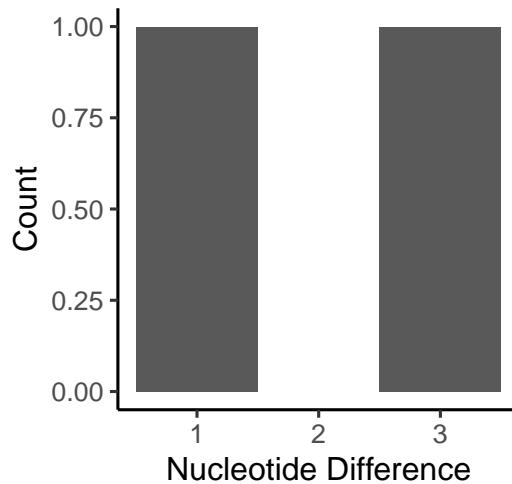
IGHV4-59*02_G88A

2381 sequences assigned
1514 (63.6%) exact matches, in which:
1497 unique CDR3
7 unique J



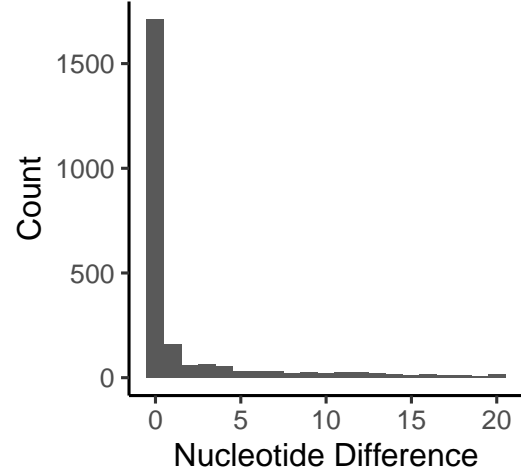
IGHV4-61*08

5 sequences assigned
No exact matches.



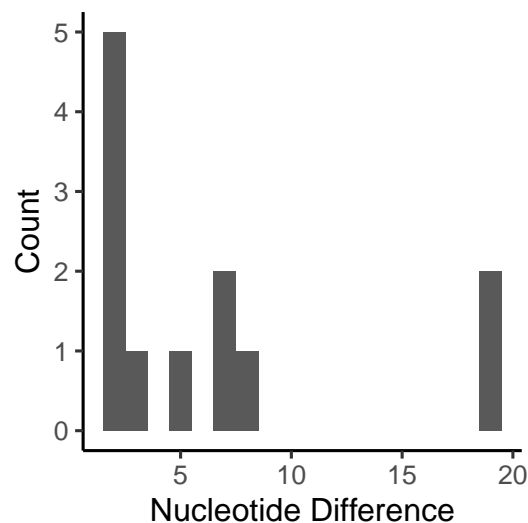
IGHV5-51*07_A128G

2676 sequences assigned
1711 (63.9%) exact matches, in which:
1547 unique CDR3
7 unique J



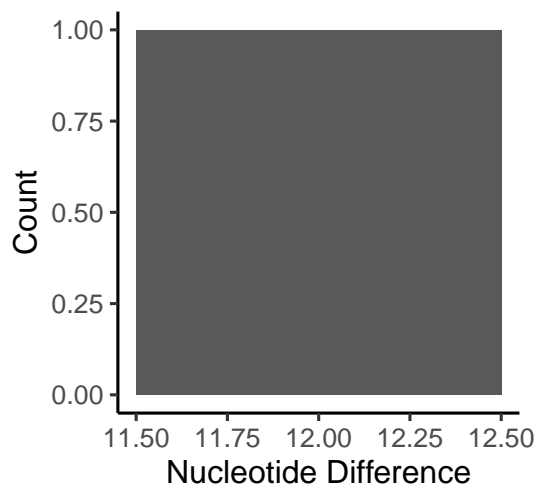
IGHV4-61*01

12 sequences assigned
No exact matches.



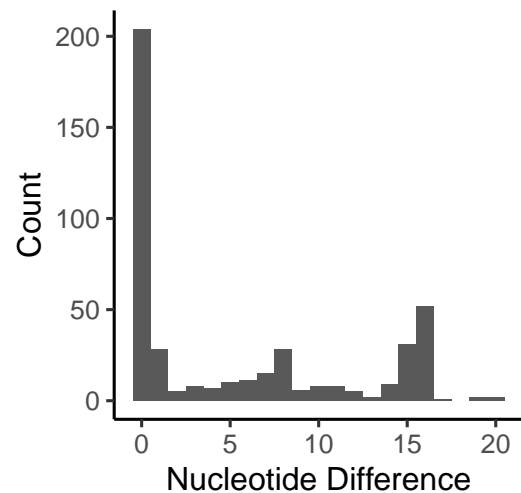
IGHV1/OR15-2*02_03

1 sequences assigned
No exact matches.



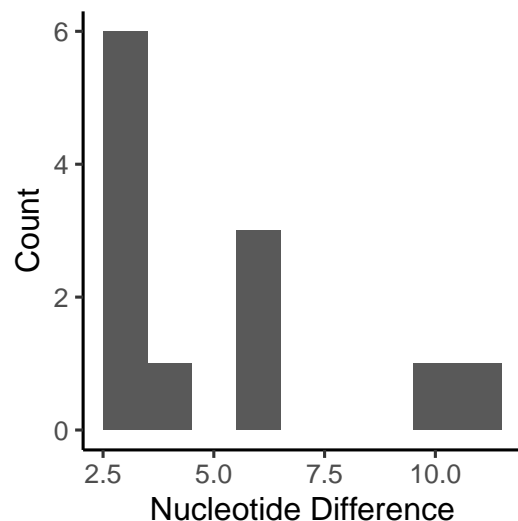
IGHV6-1*01_02

469 sequences assigned
204 (43.5%) exact matches, in which:
200 unique CDR3
6 unique J



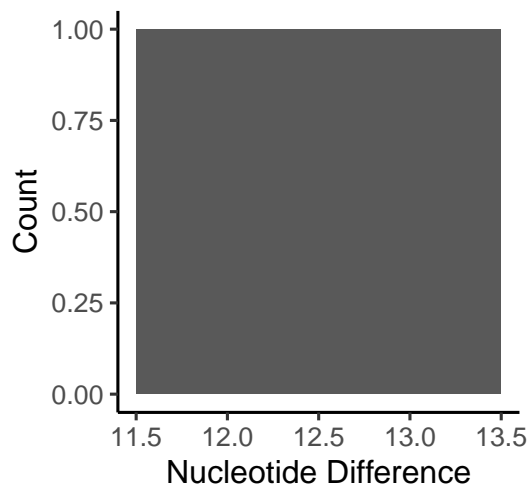
IGHV4-61*05

12 sequences assigned
No exact matches.



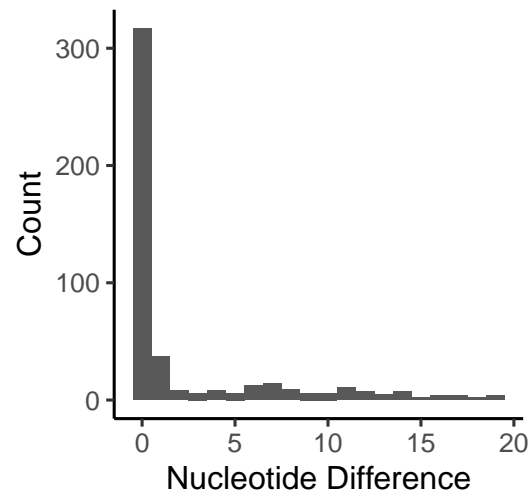
IGHV4/OR15-8*01

2 sequences assigned
No exact matches.

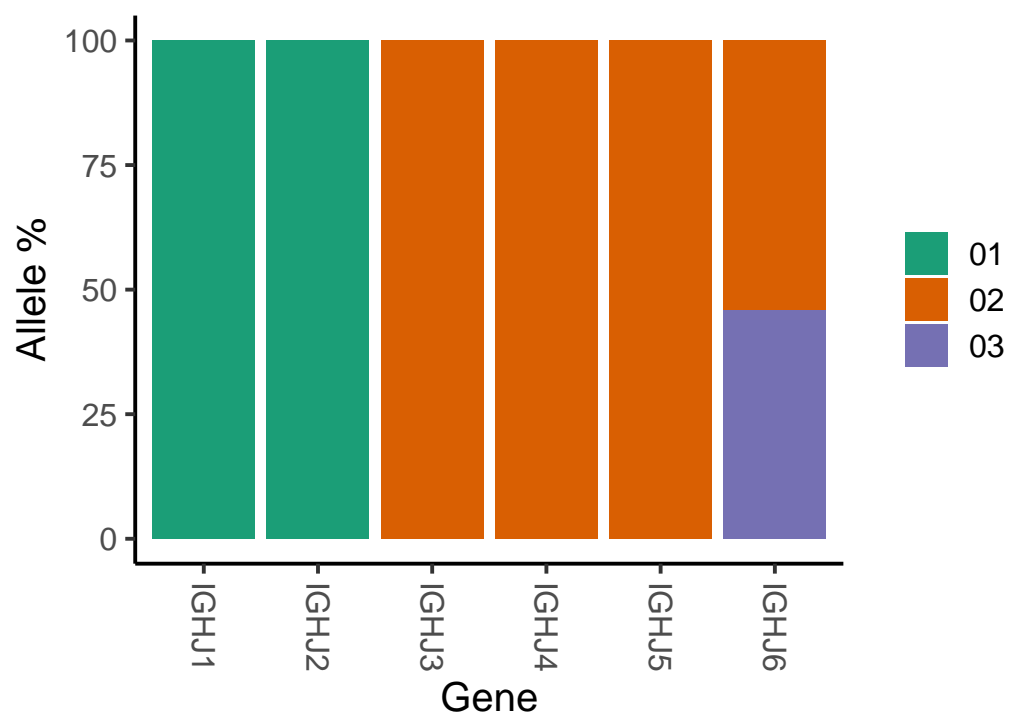


IGHV7-4-1*02

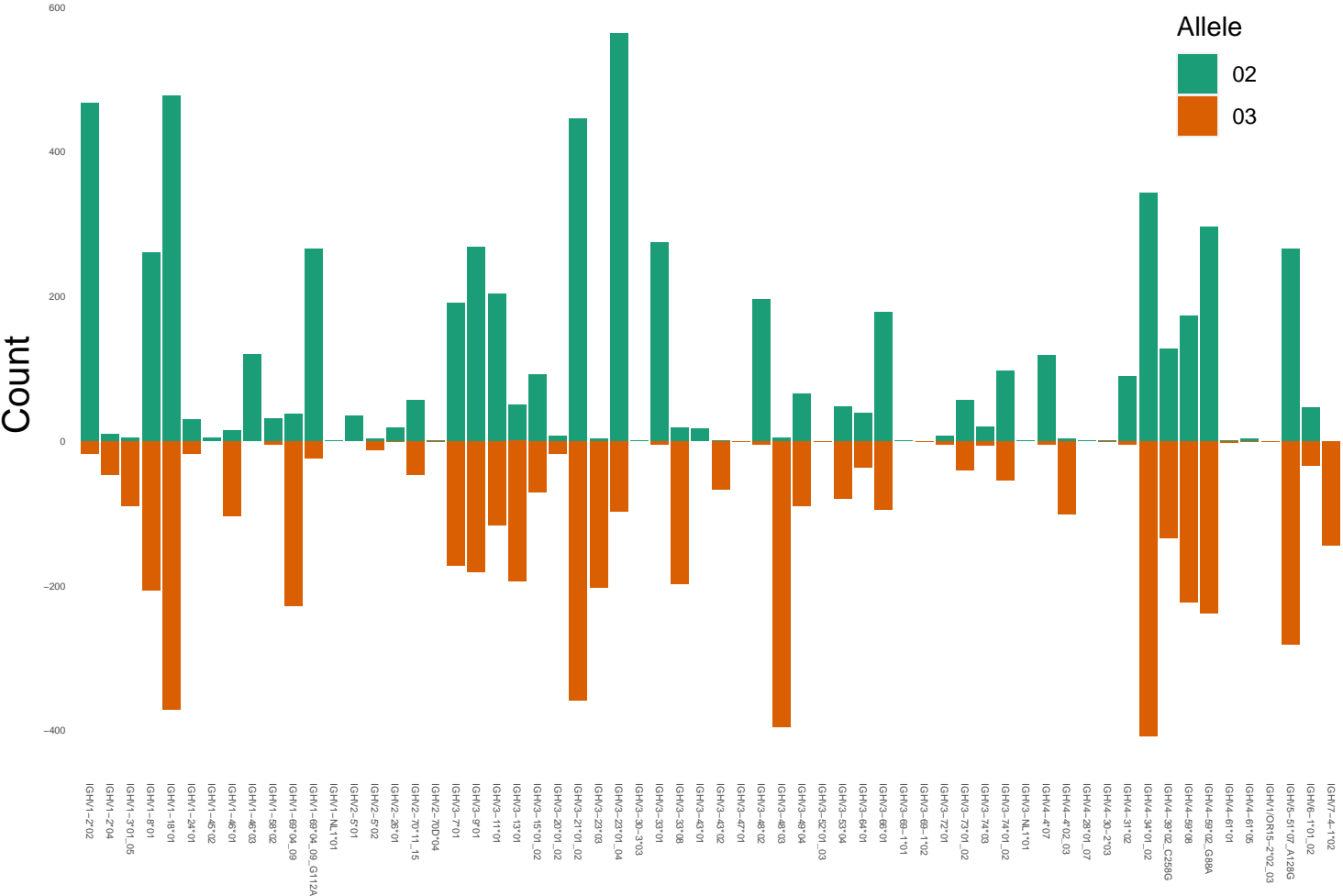
501 sequences assigned
317 (63.3%) exact matches, in which:
310 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.