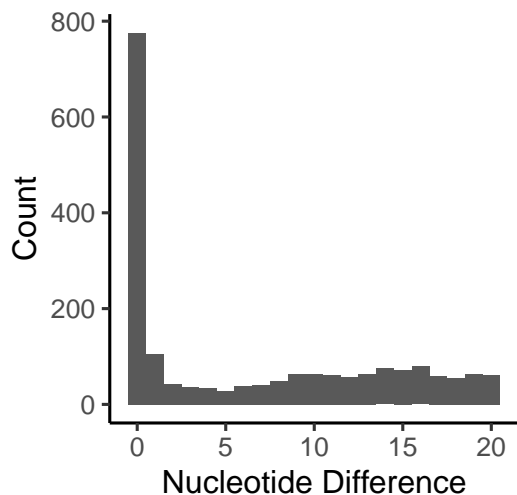


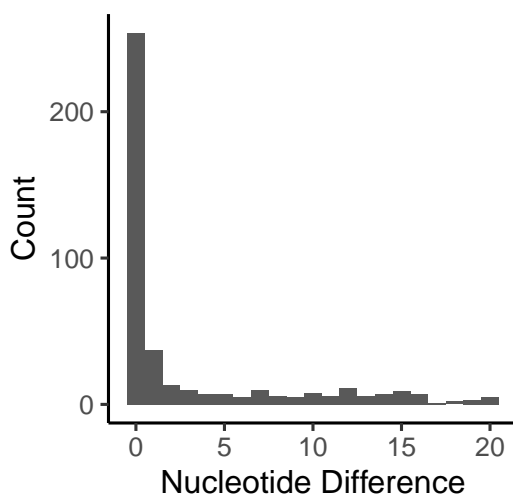
IGHV1-2*02

2310 sequences assigned
776 (33.6%) exact matches, in which:
763 unique CDR3
7 unique J



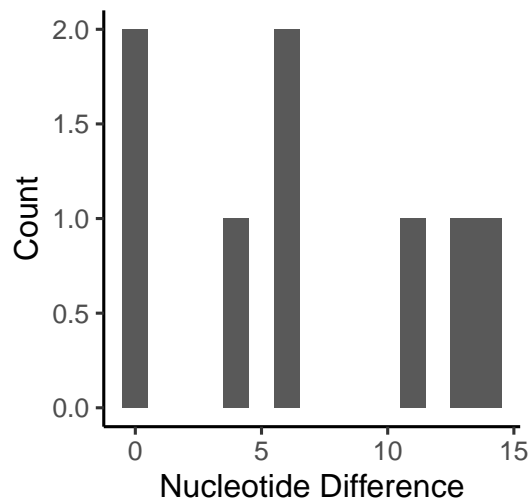
IGHV1-8*02_A250G

453 sequences assigned
254 (56.1%) exact matches, in which:
247 unique CDR3
7 unique J



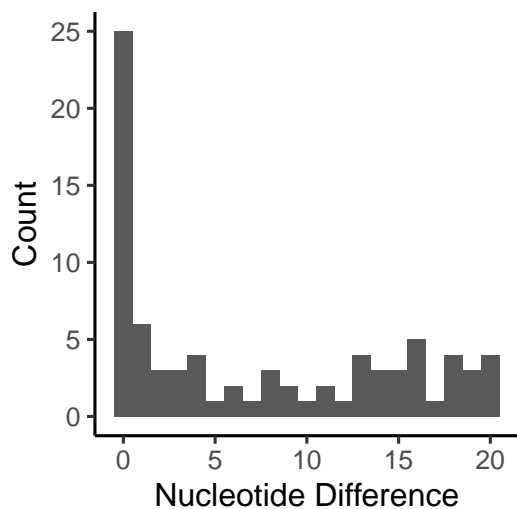
IGHV1-45*02

11 sequences assigned
2 (18.2%) exact matches, in which:
2 unique CDR3
2 unique J



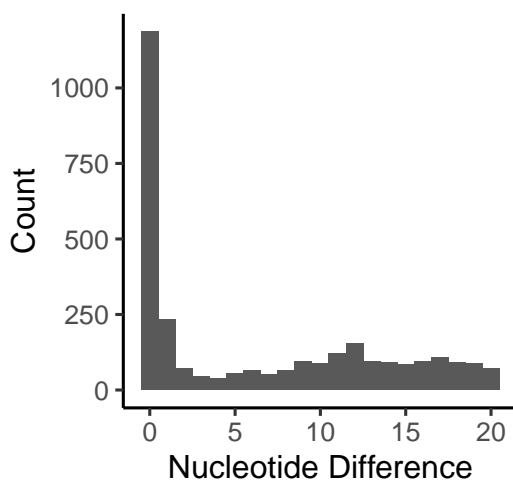
IGHV1-3*03

93 sequences assigned
25 (26.9%) exact matches, in which:
25 unique CDR3
5 unique J



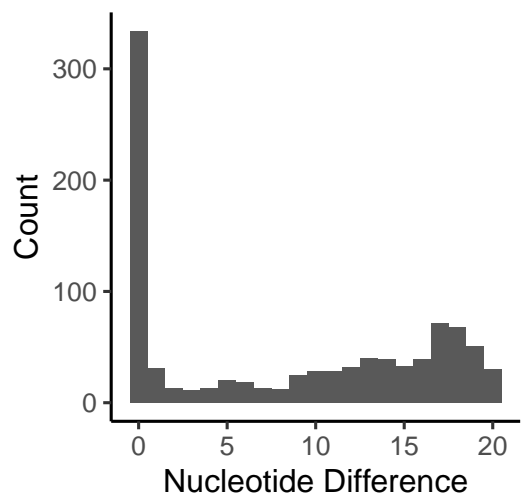
IGHV1-18*01

3596 sequences assigned
1186 (33%) exact matches, in which:
1133 unique CDR3
7 unique J



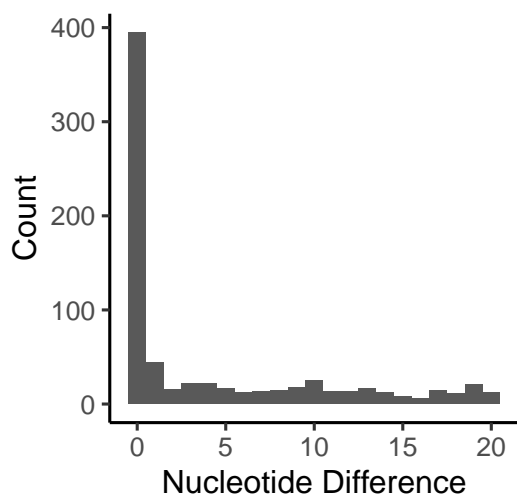
IGHV1-46*01

1207 sequences assigned
334 (27.7%) exact matches, in which:
330 unique CDR3
7 unique J



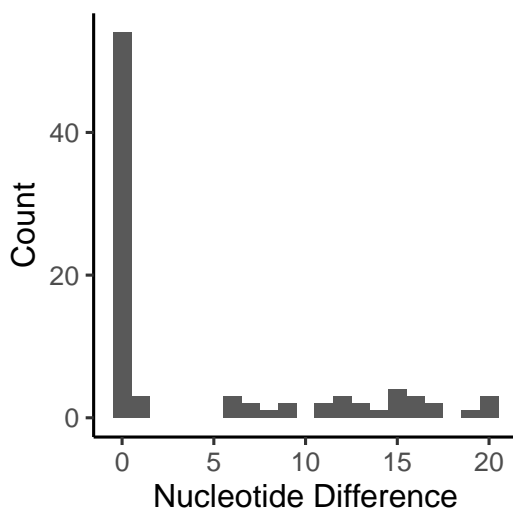
IGHV1-8*02

792 sequences assigned
395 (49.9%) exact matches, in which:
384 unique CDR3
7 unique J



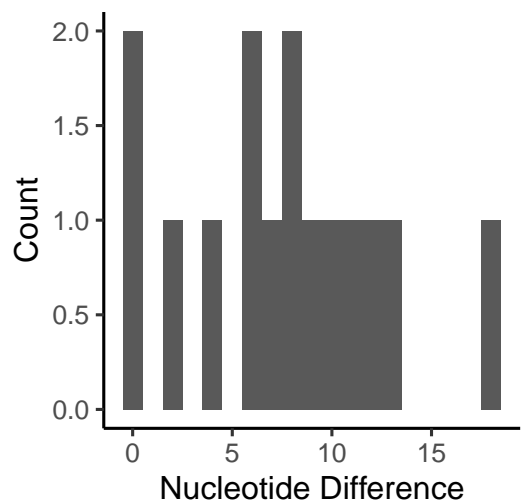
IGHV1-24*01

91 sequences assigned
54 (59.3%) exact matches, in which:
54 unique CDR3
7 unique J



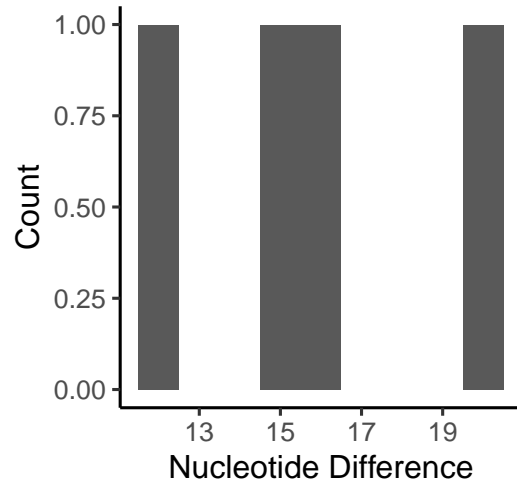
IGHV1-58*02

15 sequences assigned
2 (13.3%) exact matches, in which:
2 unique CDR3
2 unique J



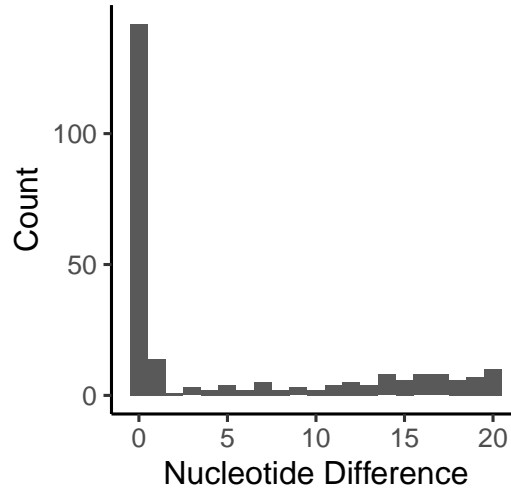
IGHV1-58*01_03

6 sequences assigned
No exact matches.



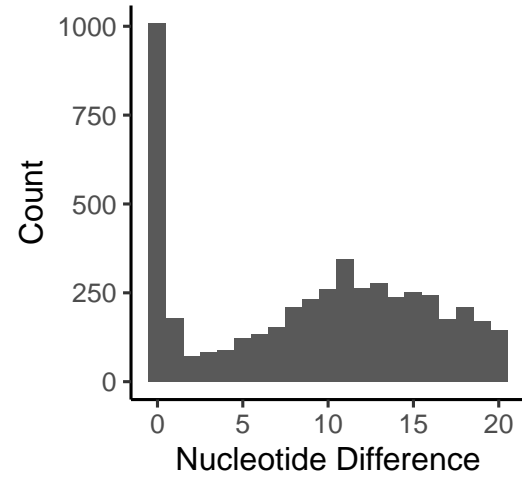
IGHV1-69*10

303 sequences assigned
142 (46.9%) exact matches, in which:
140 unique CDR3
6 unique J



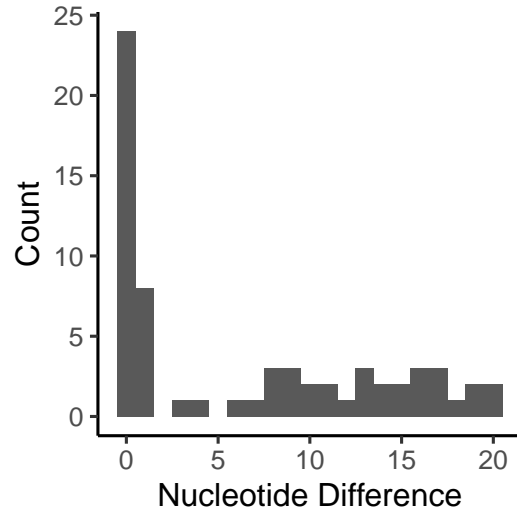
IGHV3-7*01

5761 sequences assigned
1008 (17.5%) exact matches, in which:
986 unique CDR3
7 unique J



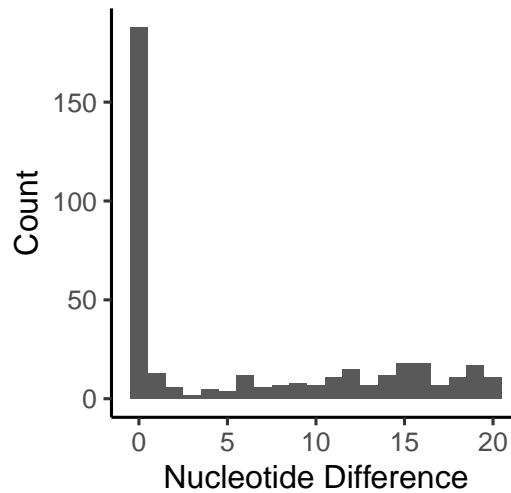
IGHV1-69-2*01

76 sequences assigned
24 (31.6%) exact matches, in which:
24 unique CDR3
4 unique J



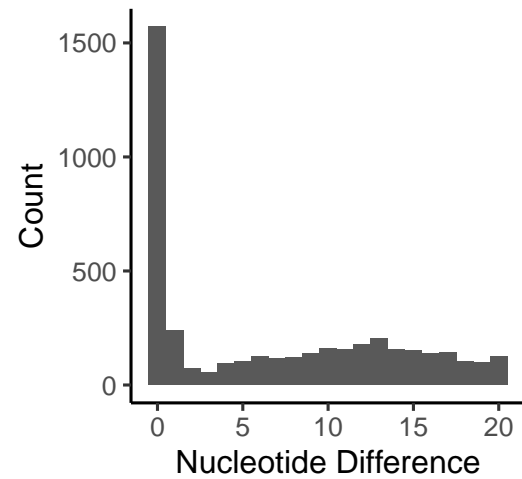
IGHV1-69*06_14

484 sequences assigned
188 (38.8%) exact matches, in which:
184 unique CDR3
6 unique J



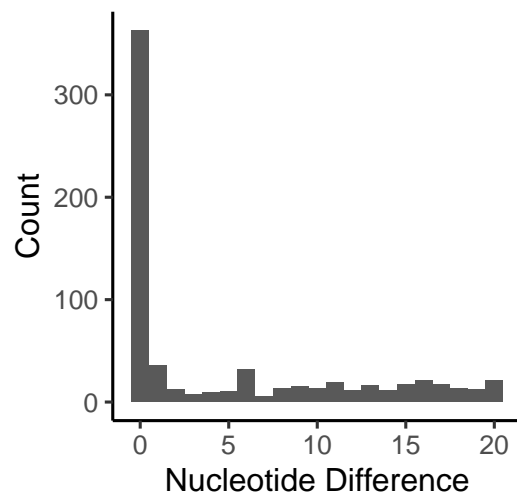
IGHV3-9*01

5024 sequences assigned
1571 (31.3%) exact matches, in which:
1538 unique CDR3
7 unique J



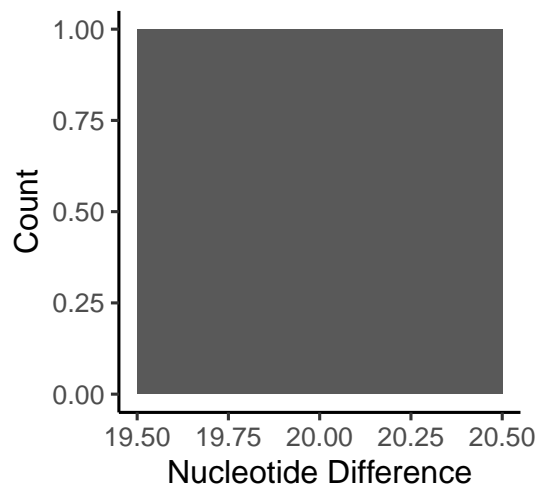
IGHV1-69*05

805 sequences assigned
363 (45.1%) exact matches, in which:
360 unique CDR3
6 unique J



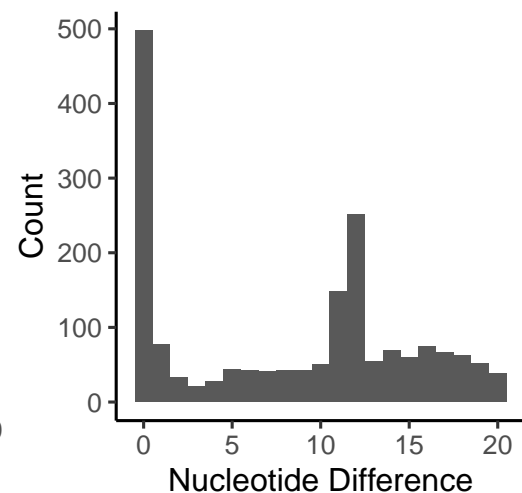
IGHV2-70*11_15

1 sequences assigned
No exact matches.



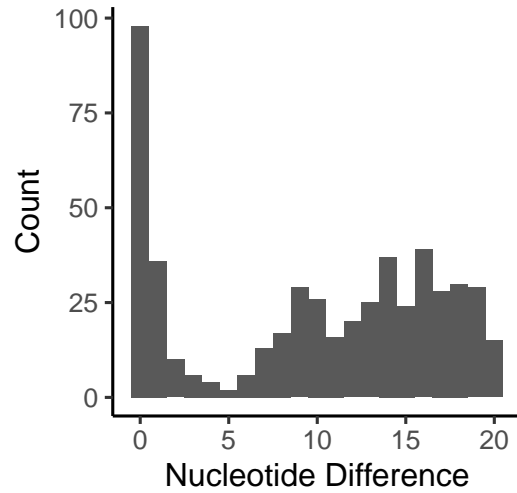
IGHV3-11*04

2142 sequences assigned
498 (23.2%) exact matches, in which:
492 unique CDR3
7 unique J



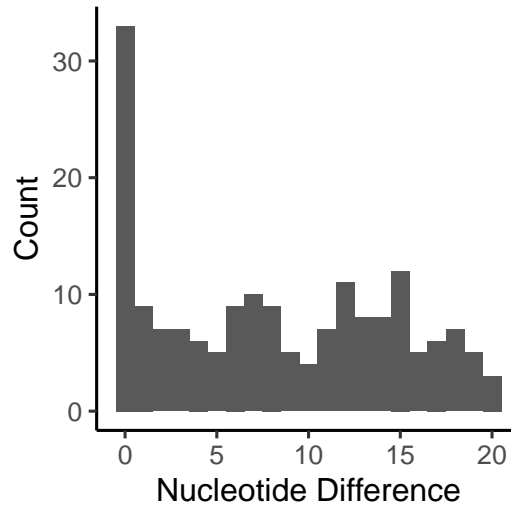
IGHV3-13*01

937 sequences assigned
98 (10.5%) exact matches, in which:
96 unique CDR3
5 unique J



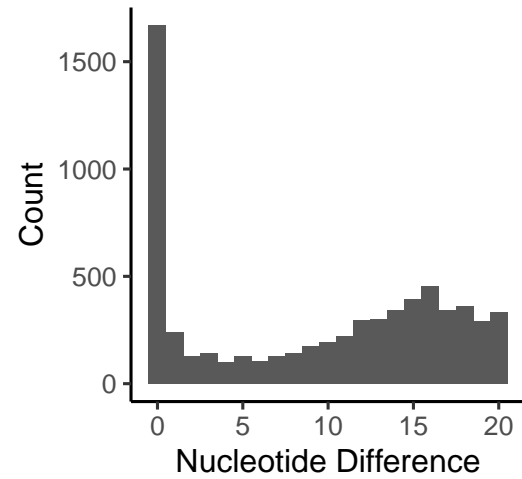
IGHV3-20*03_04

214 sequences assigned
33 (15.4%) exact matches, in which:
31 unique CDR3
5 unique J



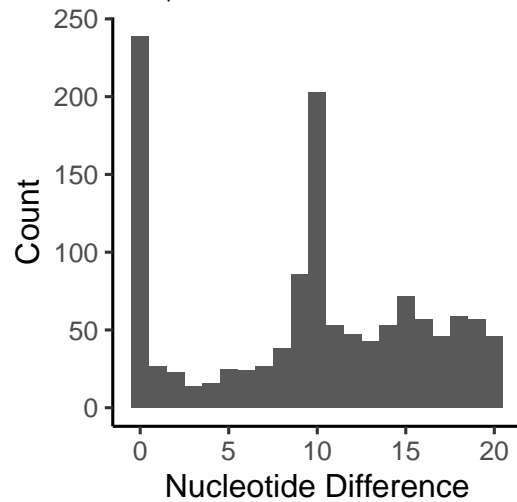
IGHV3-23*01_04

10258 sequences assigned
1669 (16.3%) exact matches, in which:
1639 unique CDR3
7 unique J



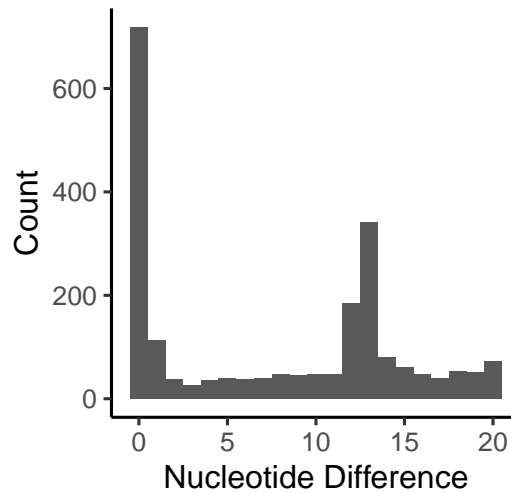
IGHV3-15*01_02

1512 sequences assigned
239 (15.8%) exact matches, in which:
239 unique CDR3
7 unique J



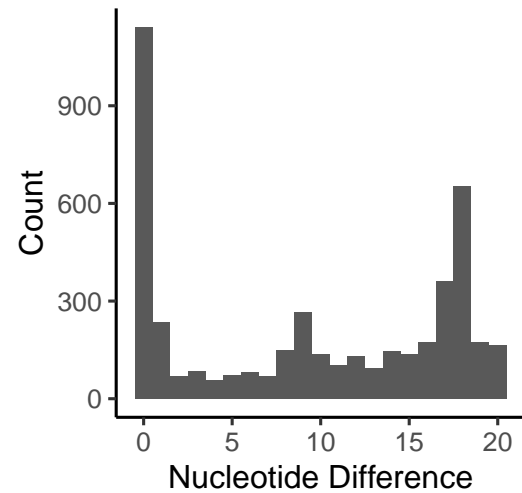
IGHV3-21*03

2401 sequences assigned
719 (29.9%) exact matches, in which:
676 unique CDR3
7 unique J



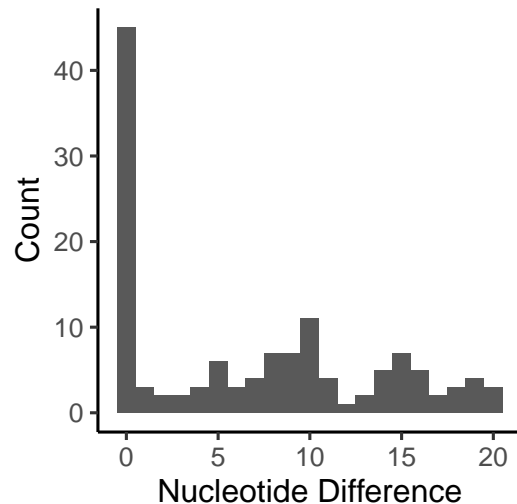
IGHV3-30*02_T201C

5327 sequences assigned
1142 (21.4%) exact matches, in which:
1005 unique CDR3
7 unique J



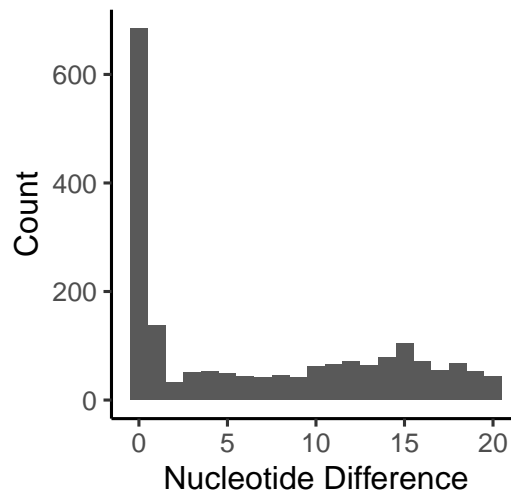
IGHV3-20*01_02

147 sequences assigned
45 (30.6%) exact matches, in which:
43 unique CDR3
5 unique J



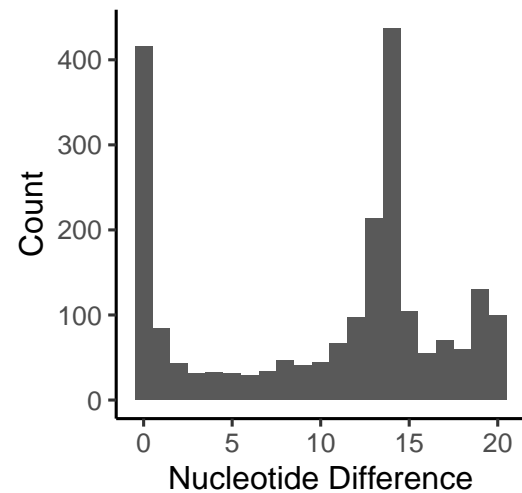
IGHV3-21*01_02

2306 sequences assigned
685 (29.7%) exact matches, in which:
658 unique CDR3
7 unique J



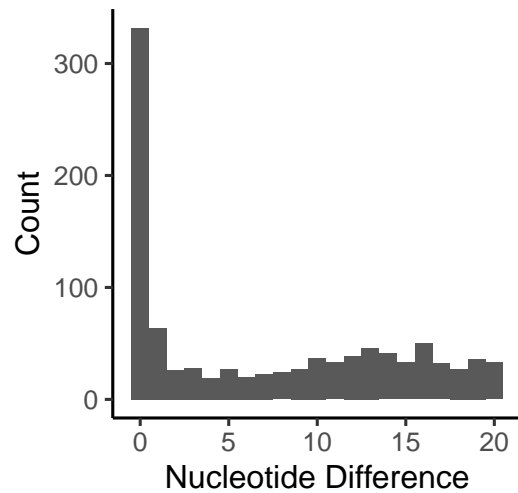
IGHV3-33*01

2432 sequences assigned
416 (17.1%) exact matches, in which:
377 unique CDR3
6 unique J



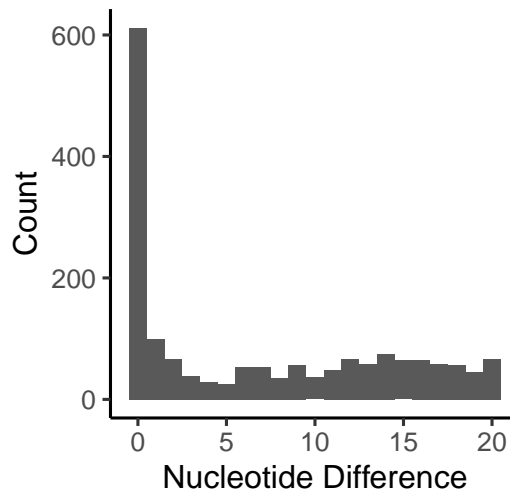
IGHV3–33*06

1169 sequences assigned
332 (28.4%) exact matches, in which:
297 unique CDR3
6 unique J



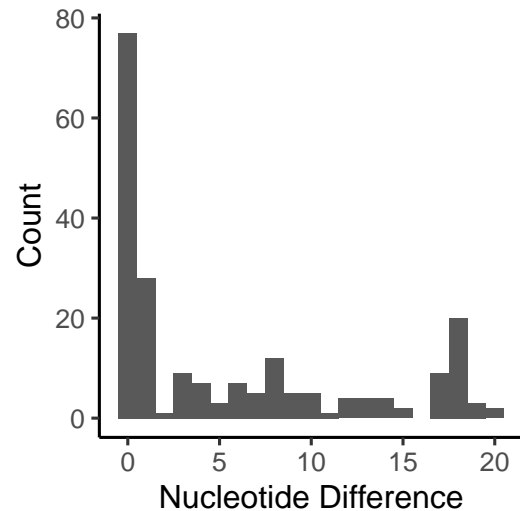
IGHV3–48*03

2183 sequences assigned
612 (28%) exact matches, in which:
599 unique CDR3
6 unique J



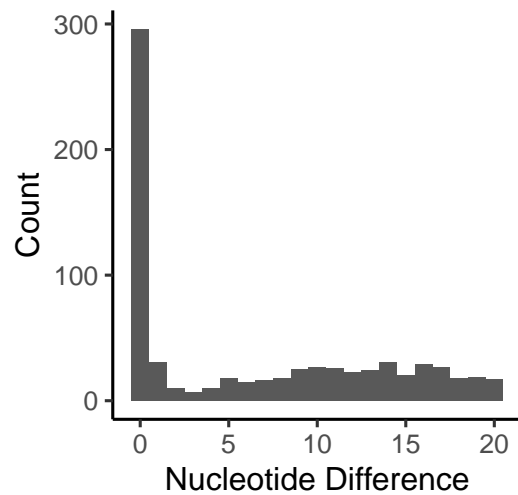
IGHV3–53*01_02_G273A

227 sequences assigned
77 (33.9%) exact matches, in which:
73 unique CDR3
6 unique J



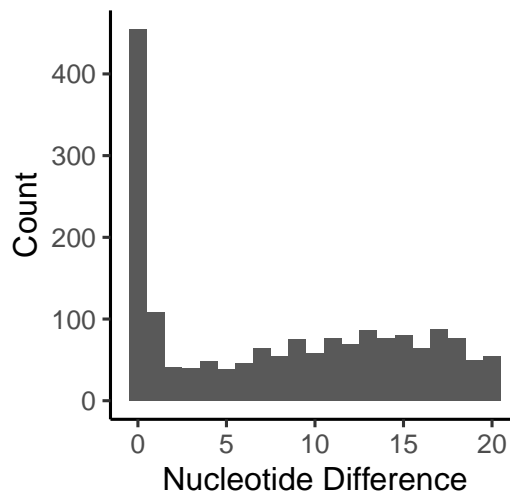
IGHV3–43*01

881 sequences assigned
296 (33.6%) exact matches, in which:
290 unique CDR3
7 unique J



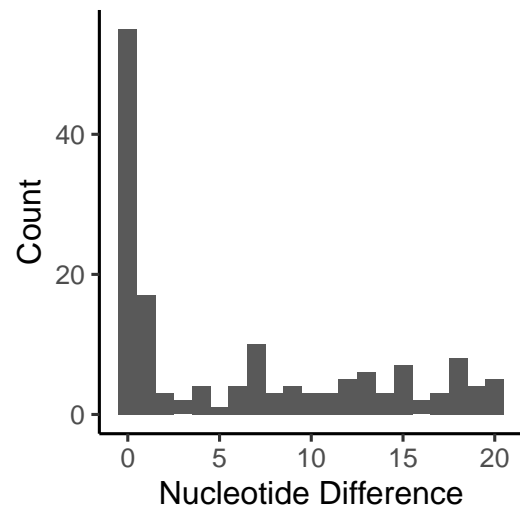
IGHV3–49*04

2168 sequences assigned
455 (21%) exact matches, in which:
442 unique CDR3
7 unique J



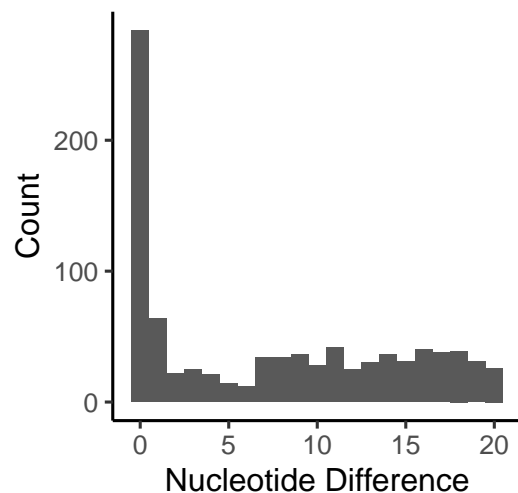
IGHV3–64*01

199 sequences assigned
55 (27.6%) exact matches, in which:
50 unique CDR3
7 unique J



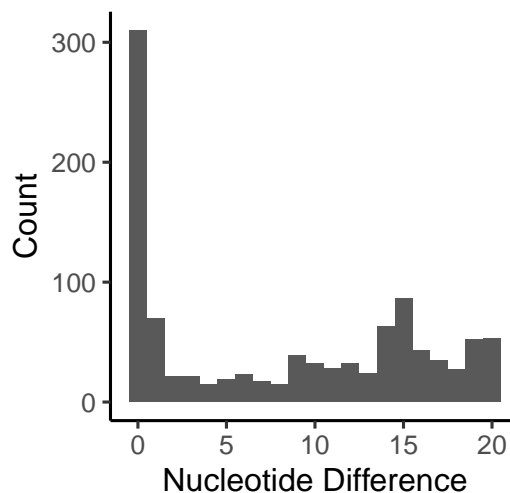
IGHV3–48*01

1139 sequences assigned
284 (24.9%) exact matches, in which:
272 unique CDR3
7 unique J



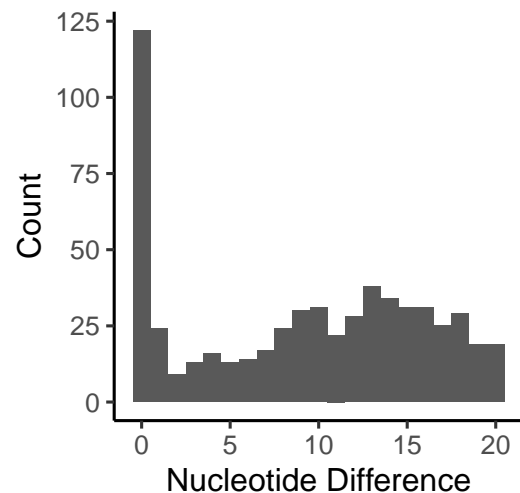
IGHV3–53*01_02

1661 sequences assigned
310 (18.7%) exact matches, in which:
295 unique CDR3
7 unique J



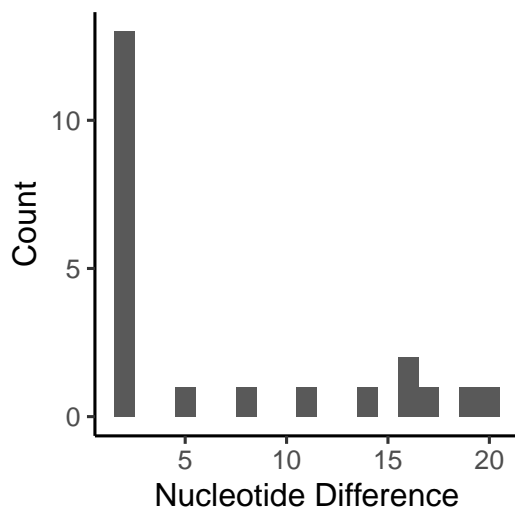
IGHV3–64*02_07

681 sequences assigned
122 (17.9%) exact matches, in which:
119 unique CDR3
6 unique J



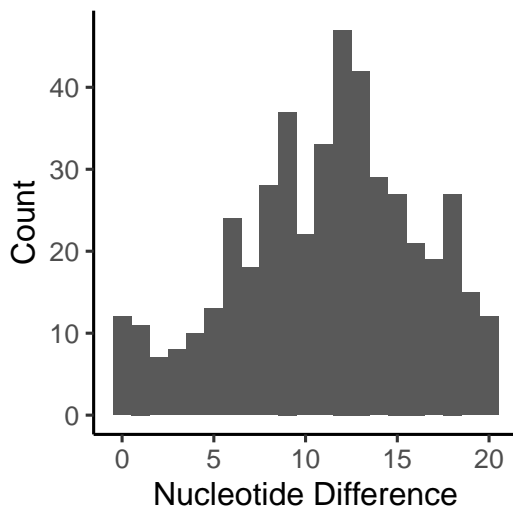
IGHV3-66*03

35 sequences assigned
No exact matches.



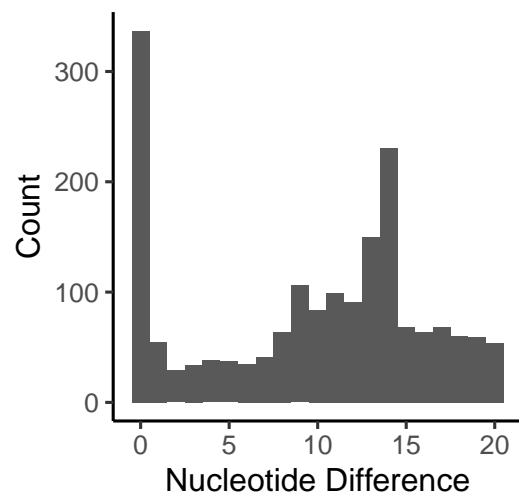
IGHV3-72*01

519 sequences assigned
12 (2.3%) exact matches, in which:
12 unique CDR3
3 unique J



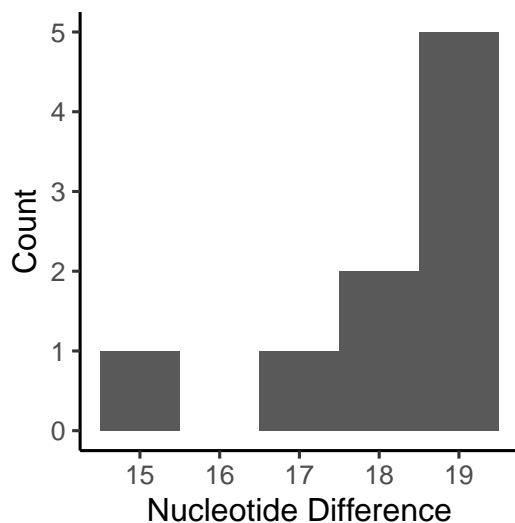
IGHV3-74*01_02

2407 sequences assigned
337 (14%) exact matches, in which:
331 unique CDR3
7 unique J



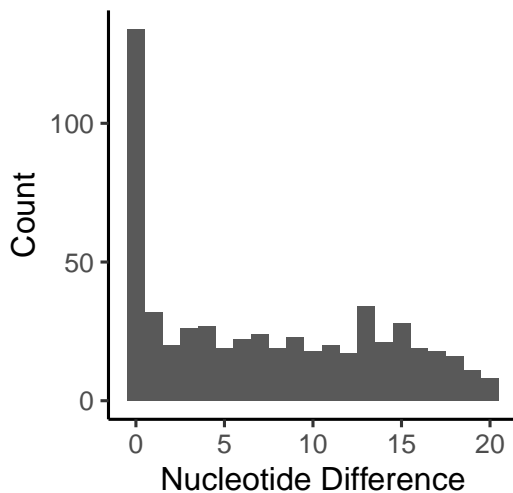
IGHV3-69-1*01

16 sequences assigned
No exact matches.



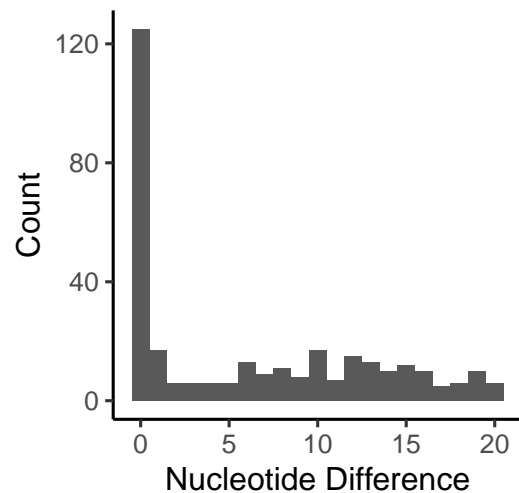
IGHV3-73*01_02

803 sequences assigned
134 (16.7%) exact matches, in which:
131 unique CDR3
7 unique J



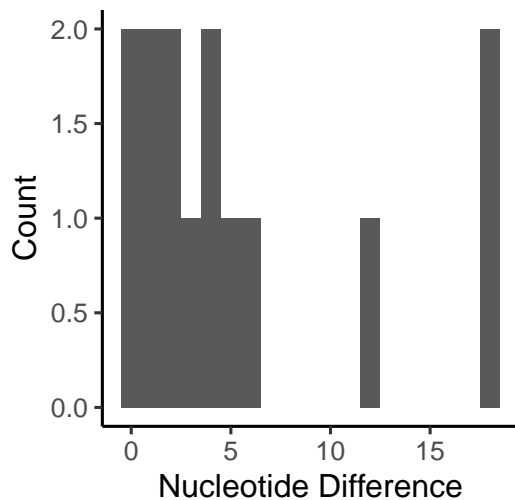
IGHV3-43D*04

361 sequences assigned
125 (34.6%) exact matches, in which:
125 unique CDR3
6 unique J



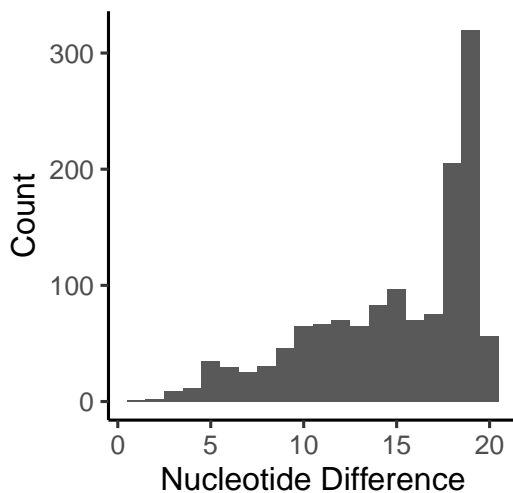
IGHV3-69-1*02

26 sequences assigned
2 (7.7%) exact matches, in which:
2 unique CDR3
1 unique J



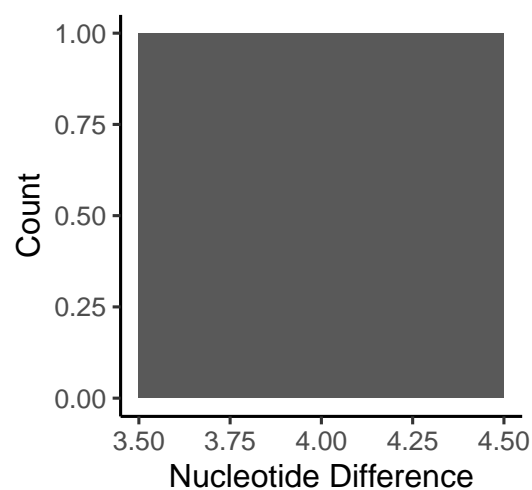
IGHV3-74*03

1881 sequences assigned
No exact matches.



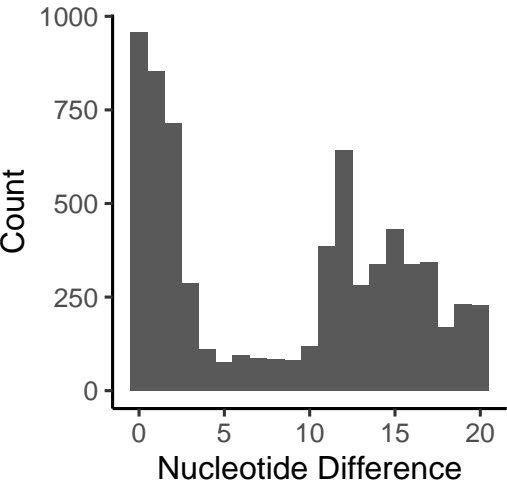
IGHV3-NL1*01

11 sequences assigned
No exact matches.



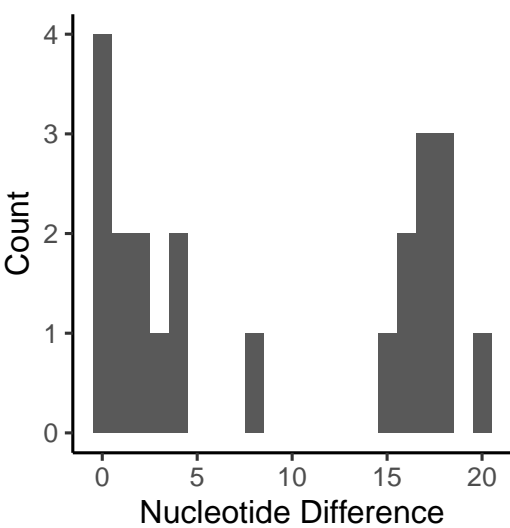
IGHV4-4*07

9442 sequences assigned
957 (10.1%) exact matches, in which:
813 unique CDR3
7 unique J



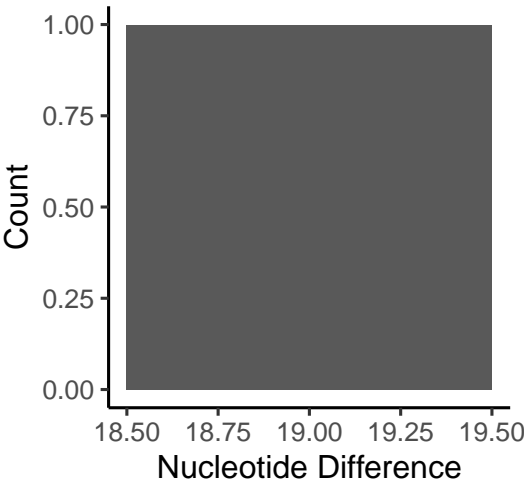
IGHV4-28*06

23 sequences assigned
4 (17.4%) exact matches, in which:
4 unique CDR3
2 unique J



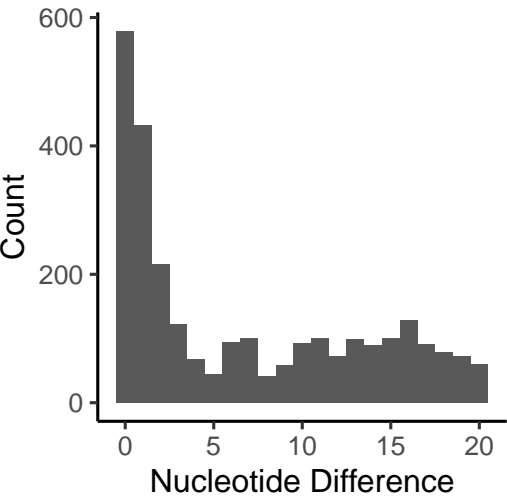
IGHV4-30-2*04

1 sequences assigned
No exact matches.



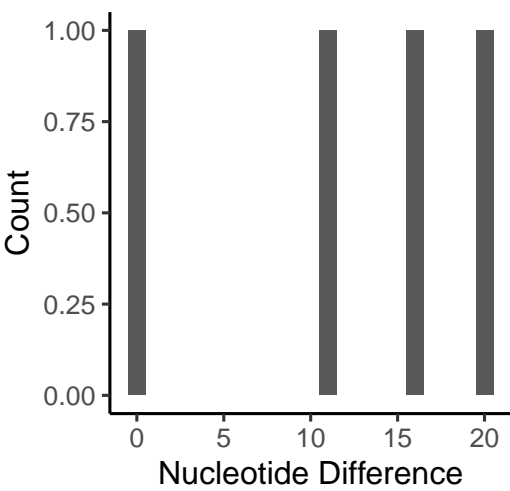
IGHV4-4*08

3210 sequences assigned
579 (18%) exact matches, in which:
484 unique CDR3
7 unique J



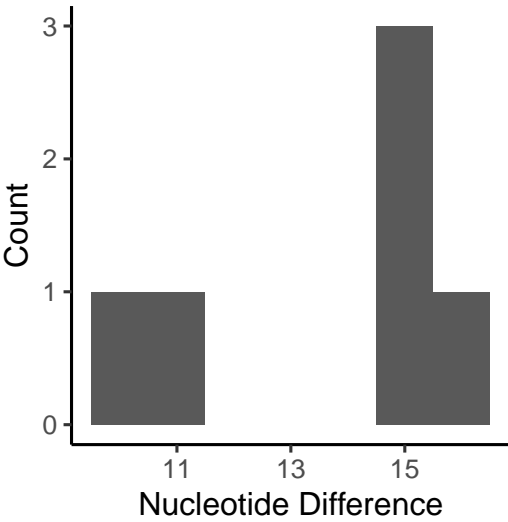
IGHV4-28*02_05

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



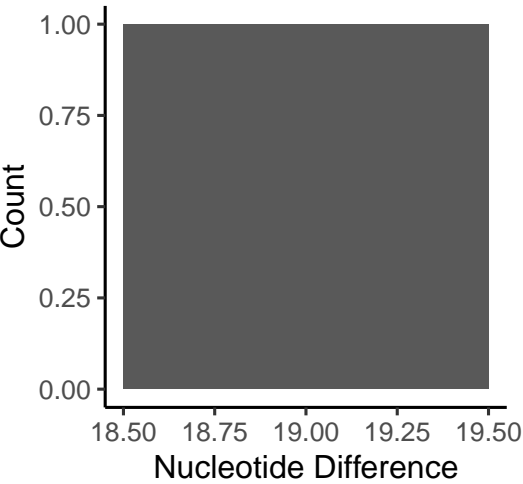
IGHV4-30-4*08

9 sequences assigned
No exact matches.



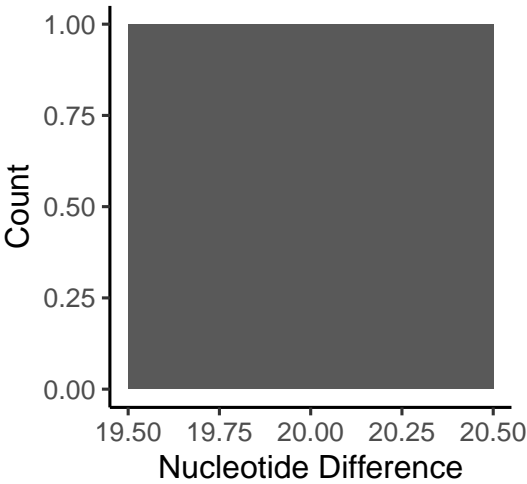
IGHV4-28*03

4 sequences assigned
No exact matches.



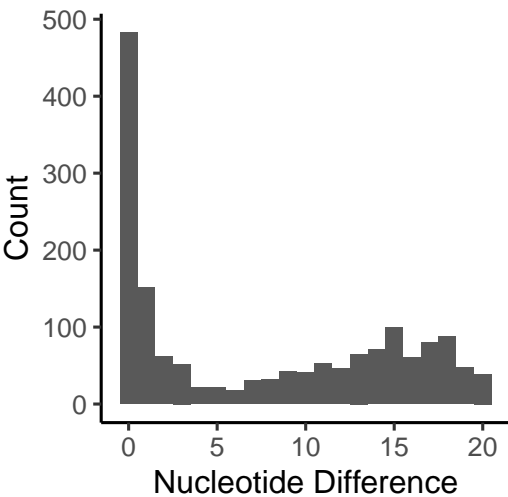
IGHV4-30-4*01

19 sequences assigned
No exact matches.



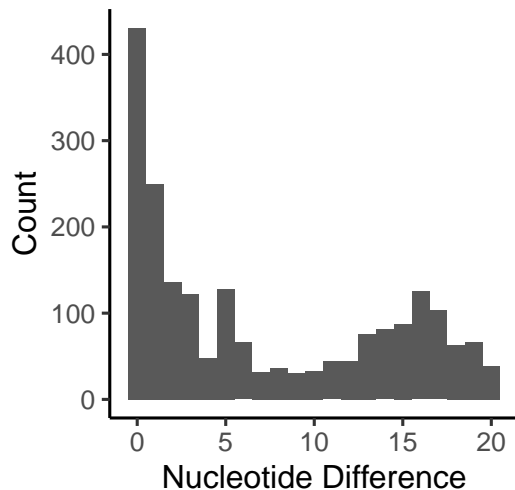
IGHV4-31*02

2197 sequences assigned
483 (22%) exact matches, in which:
419 unique CDR3
7 unique J



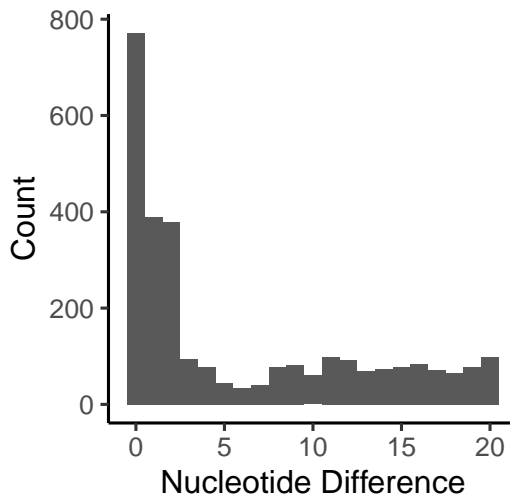
IGHV4-31*02_T285C

2579 sequences assigned
431 (16.7%) exact matches, in which:
378 unique CDR3
7 unique J



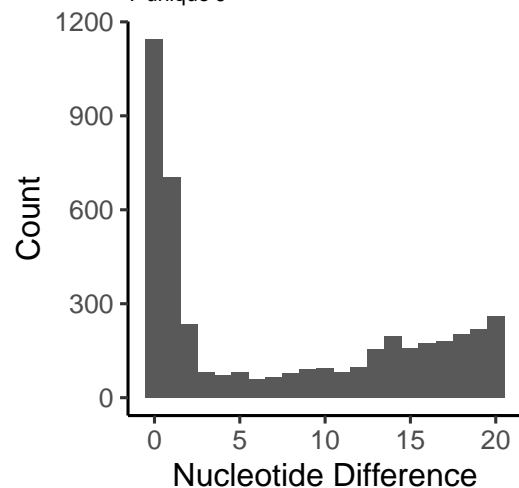
IGHV4-38-2*01

3579 sequences assigned
772 (21.6%) exact matches, in which:
732 unique CDR3
7 unique J



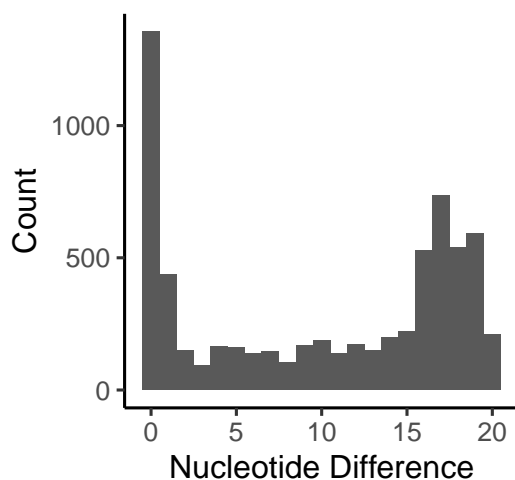
IGHV4-39*02_C258G

6011 sequences assigned
1144 (19%) exact matches, in which:
953 unique CDR3
7 unique J



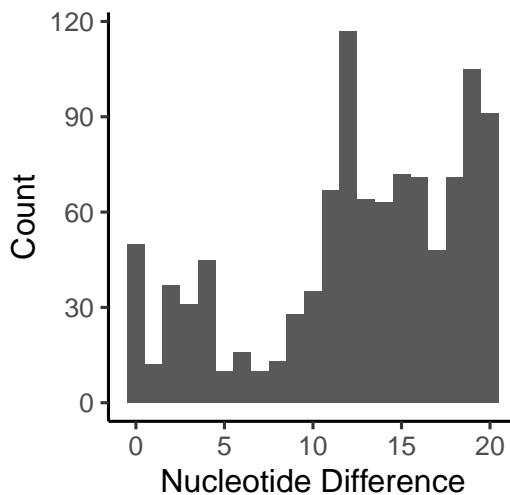
IGHV4-34*01_02

9432 sequences assigned
1355 (14.4%) exact matches, in which:
1165 unique CDR3
7 unique J



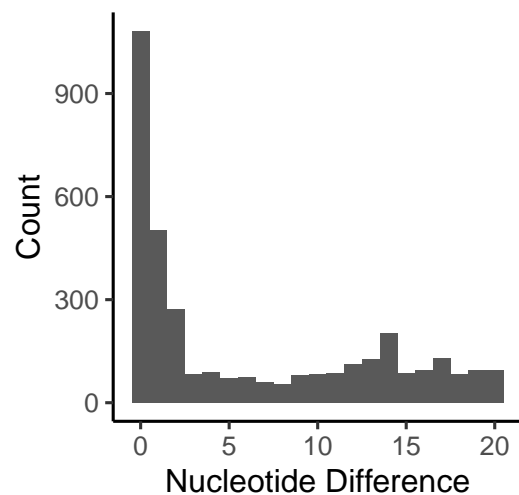
IGHV4-38-2*02

1585 sequences assigned
50 (3.2%) exact matches, in which:
45 unique CDR3
5 unique J



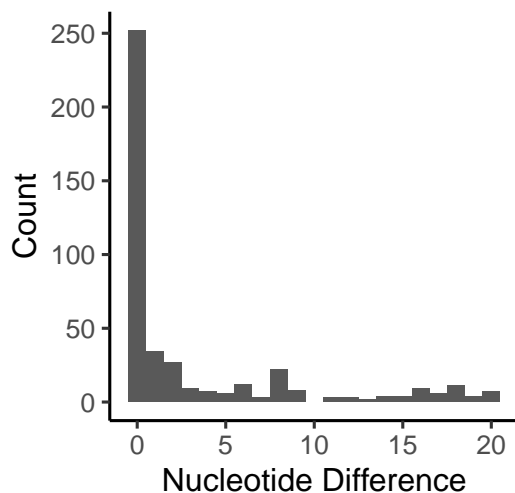
IGHV4-59*01_07

4701 sequences assigned
1082 (23%) exact matches, in which:
946 unique CDR3
7 unique J



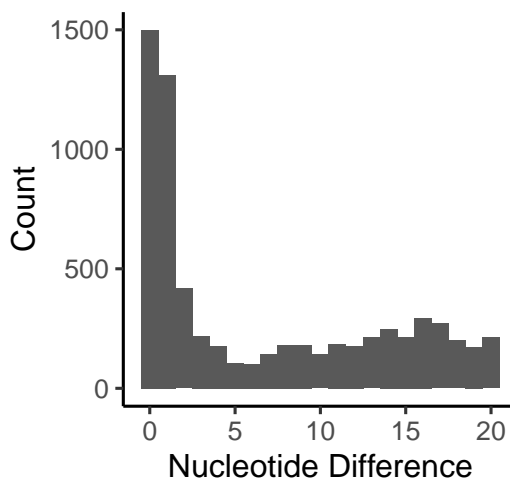
IGHV4-34*01_02_G291A

471 sequences assigned
252 (53.5%) exact matches, in which:
251 unique CDR3
7 unique J



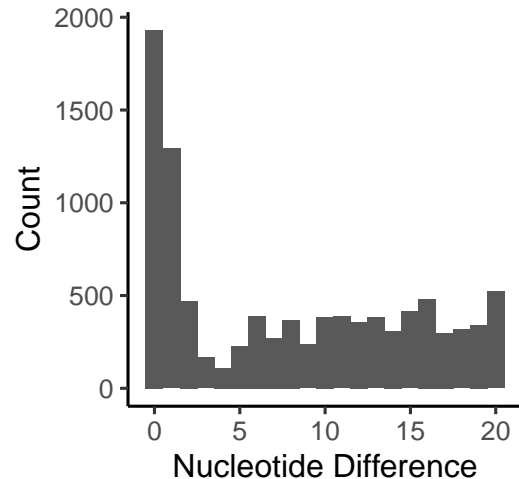
IGHV4-39*07

8981 sequences assigned
1499 (16.7%) exact matches, in which:
1311 unique CDR3
7 unique J



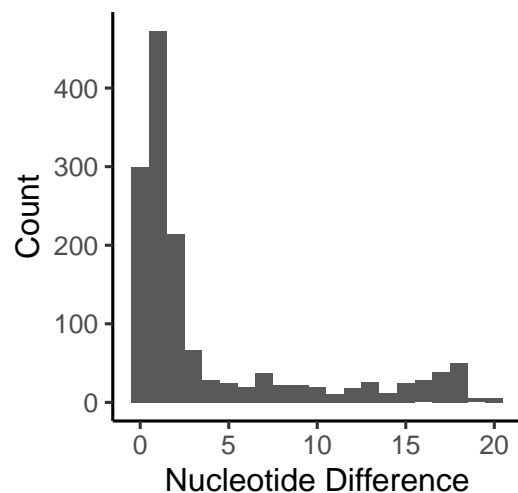
IGHV4-59*11

11789 sequences assigned
1931 (16.4%) exact matches, in which:
1635 unique CDR3
7 unique J



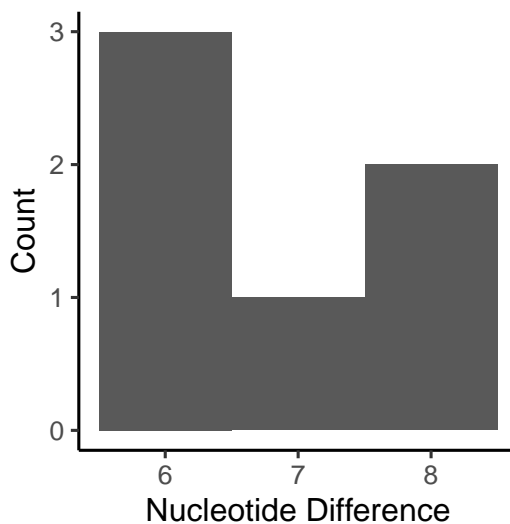
IGHV4-59*08_T109C

1525 sequences assigned
300 (19.7%) exact matches, in which:
299 unique CDR3
7 unique J



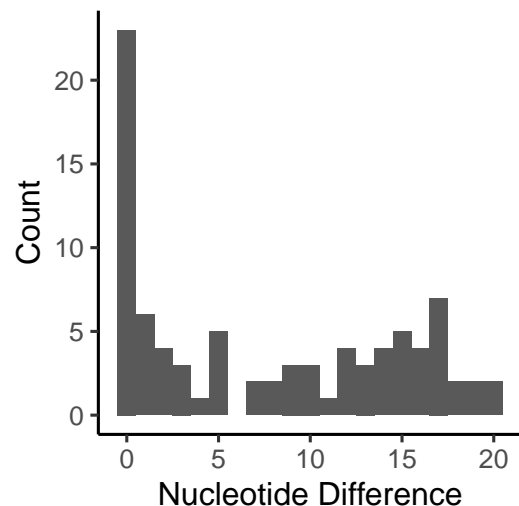
IGHV4/OR15-8*02

6 sequences assigned
No exact matches.



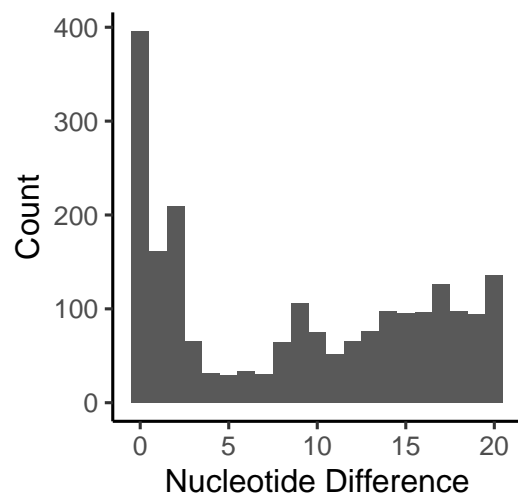
IGHV7-4-1*02

101 sequences assigned
23 (22.8%) exact matches, in which:
23 unique CDR3
5 unique J



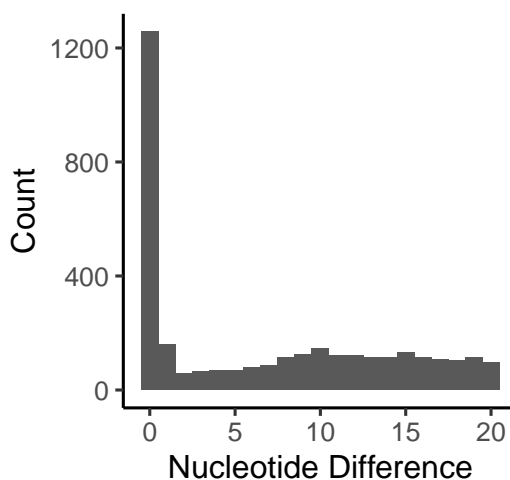
IGHV4-61*02

2727 sequences assigned
396 (14.5%) exact matches, in which:
359 unique CDR3
7 unique J



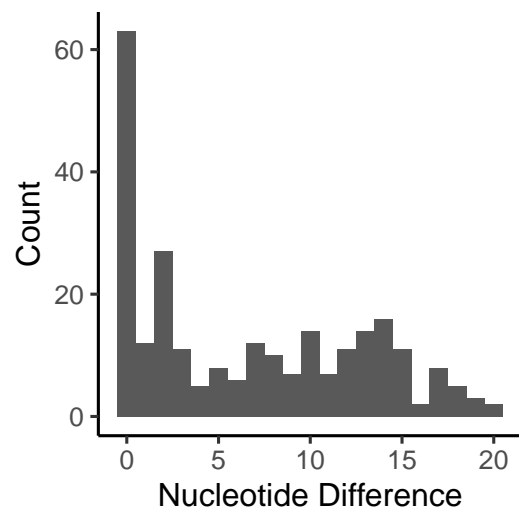
IGHV5-51*07_A128G

4025 sequences assigned
1257 (31.2%) exact matches, in which:
1215 unique CDR3
7 unique J



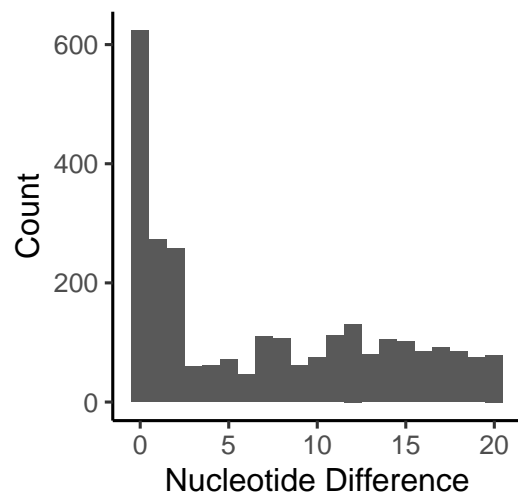
IGHV7-4-1*02_A18G

300 sequences assigned
63 (21%) exact matches, in which:
53 unique CDR3
6 unique J



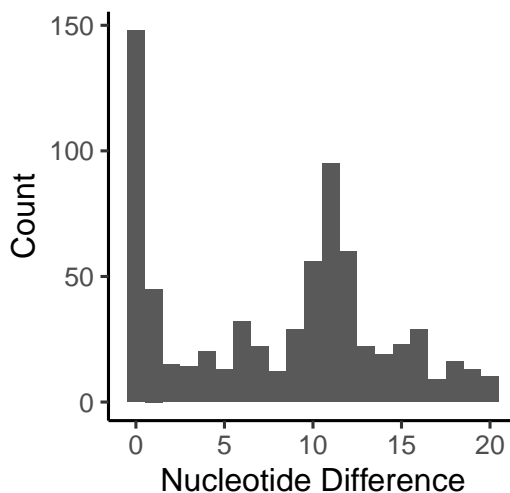
IGHV4-61*09

3453 sequences assigned
624 (18.1%) exact matches, in which:
554 unique CDR3
7 unique J

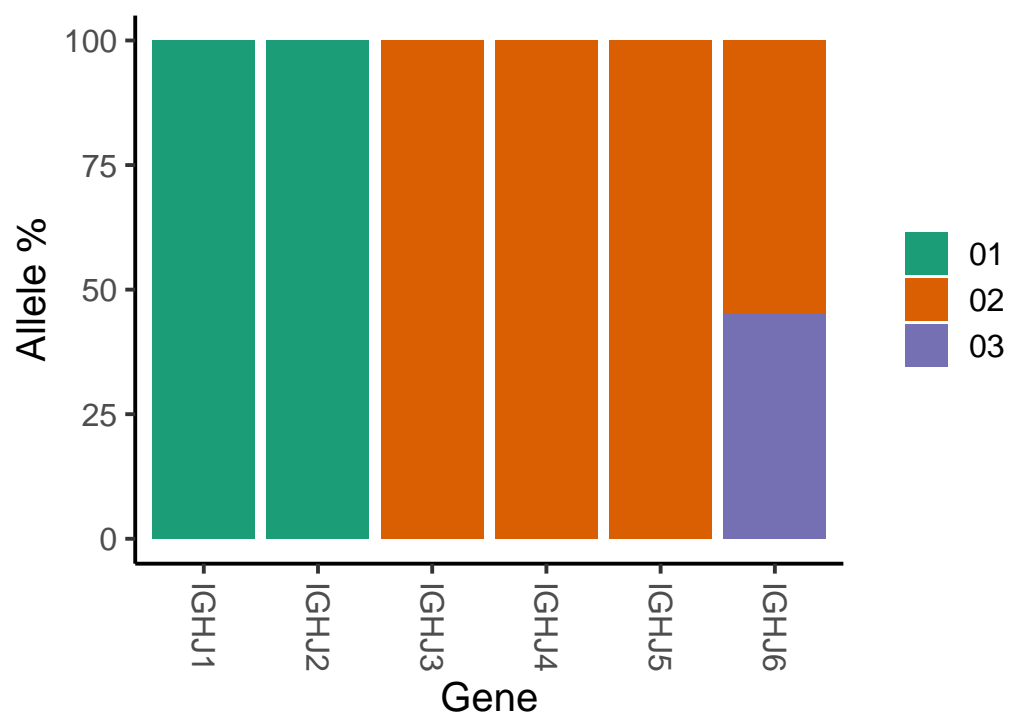


IGHV6-1*01_02

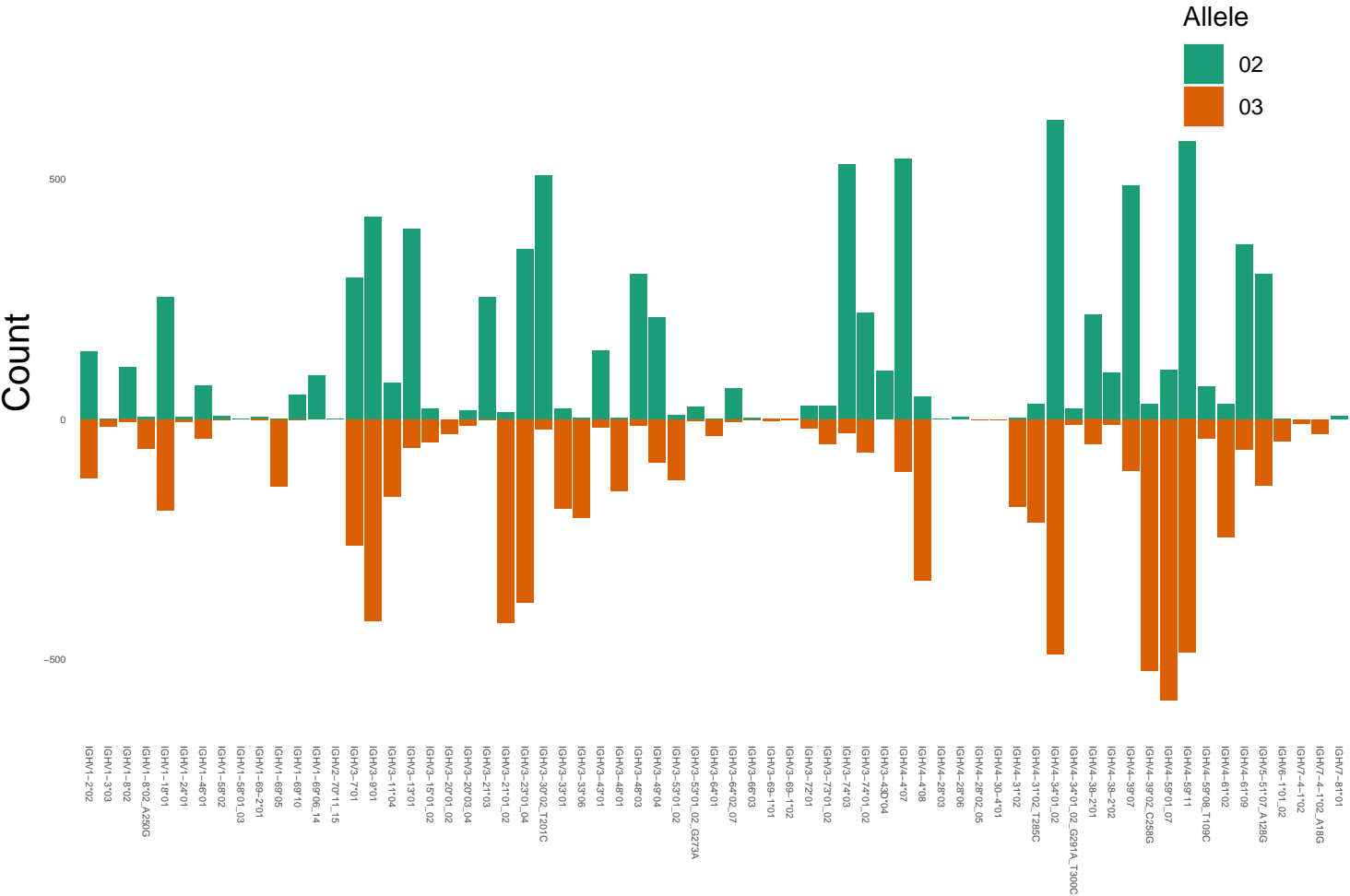
766 sequences assigned
148 (19.3%) exact matches, in which:
140 unique CDR3
5 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.