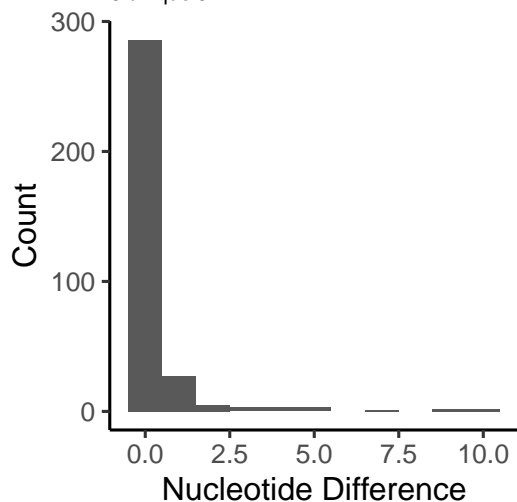


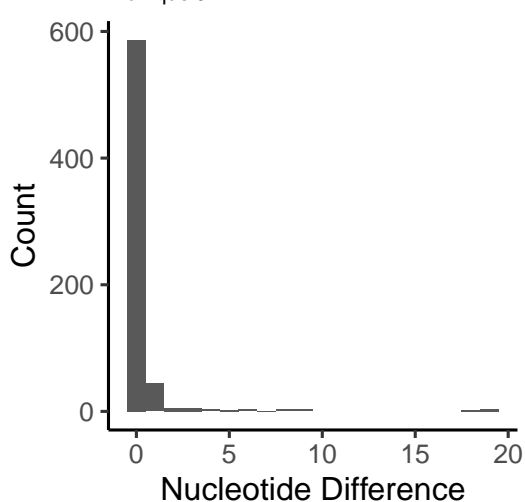
IGHV1-2*04

332 sequences assigned
286 (86.1%) exact matches, in which:
260 unique CDR3
6 unique J



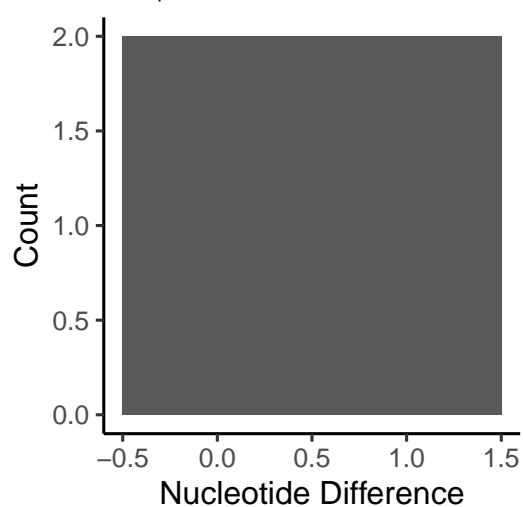
IGHV1-18*01

668 sequences assigned
587 (87.9%) exact matches, in which:
559 unique CDR3
7 unique J



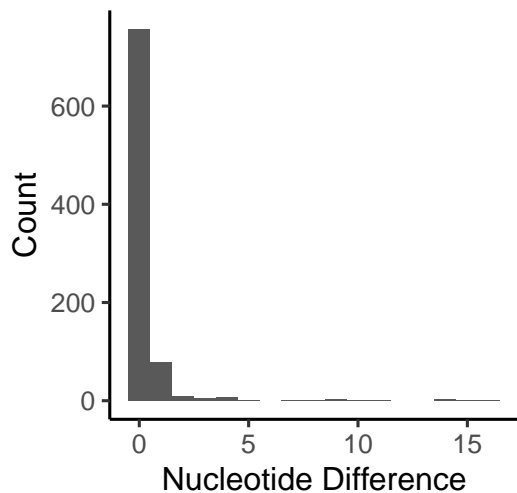
IGHV1-45*02

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



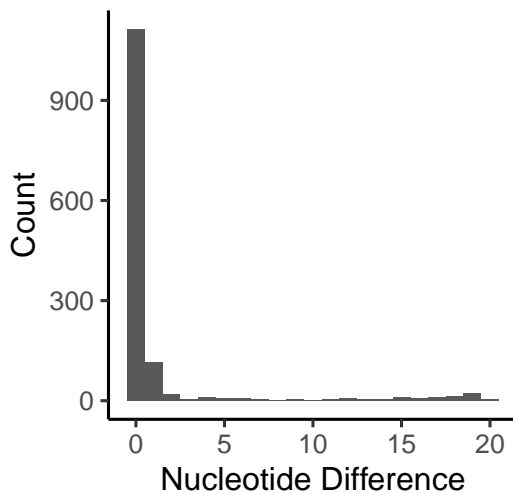
IGHV1-2*06

873 sequences assigned
757 (86.7%) exact matches, in which:
693 unique CDR3
7 unique J



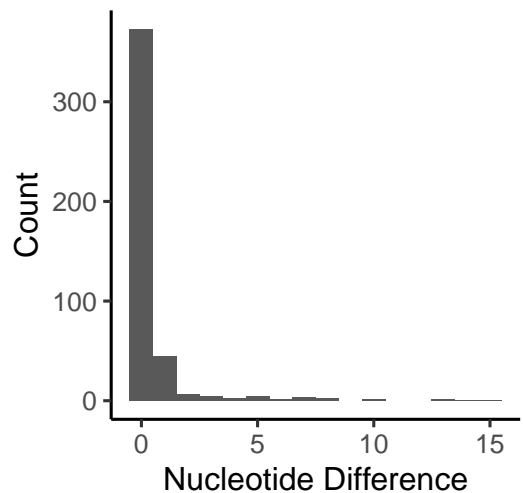
IGHV1-18*04

1433 sequences assigned
1114 (77.7%) exact matches, in which:
1057 unique CDR3
6 unique J



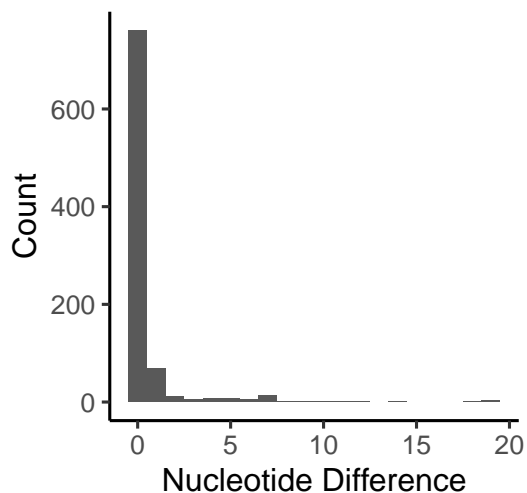
IGHV1-46*01

453 sequences assigned
373 (82.3%) exact matches, in which:
349 unique CDR3
7 unique J



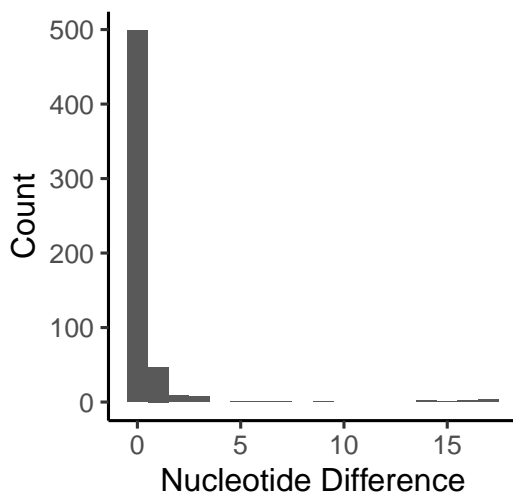
IGHV1-3*01

893 sequences assigned
761 (85.2%) exact matches, in which:
715 unique CDR3
7 unique J



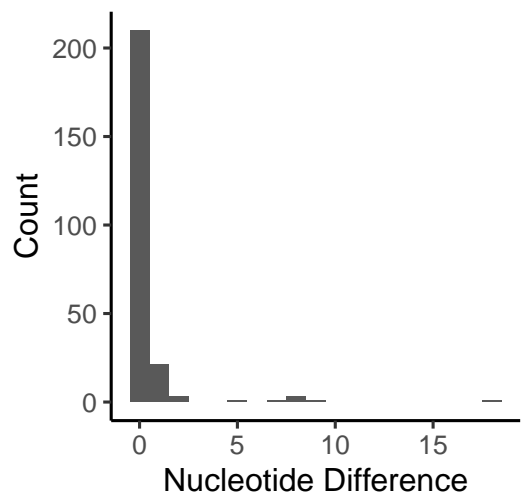
IGHV1-24*01

575 sequences assigned
499 (86.8%) exact matches, in which:
458 unique CDR3
7 unique J



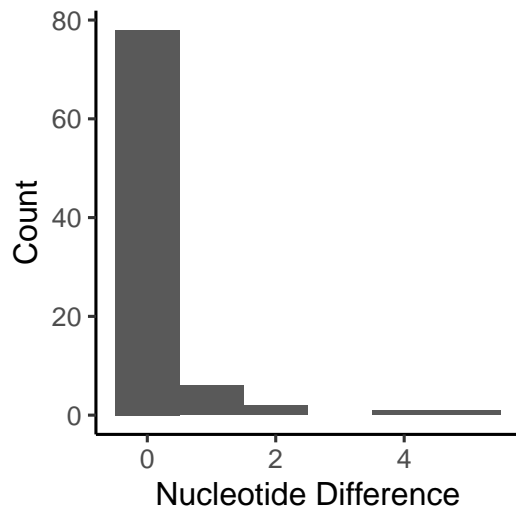
IGHV1-46*03

241 sequences assigned
210 (87.1%) exact matches, in which:
198 unique CDR3
5 unique J



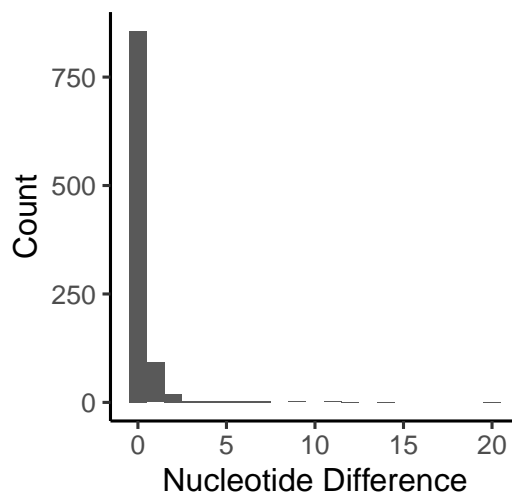
IGHV1-58*01

88 sequences assigned
78 (88.6%) exact matches, in which:
74 unique CDR3
6 unique J



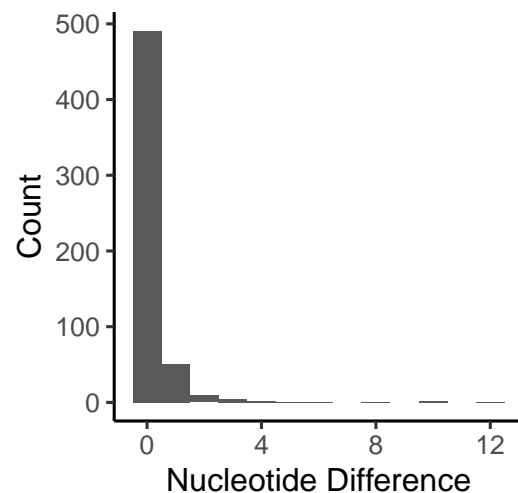
IGHV1-69*06

994 sequences assigned
857 (86.2%) exact matches, in which:
777 unique CDR3
6 unique J



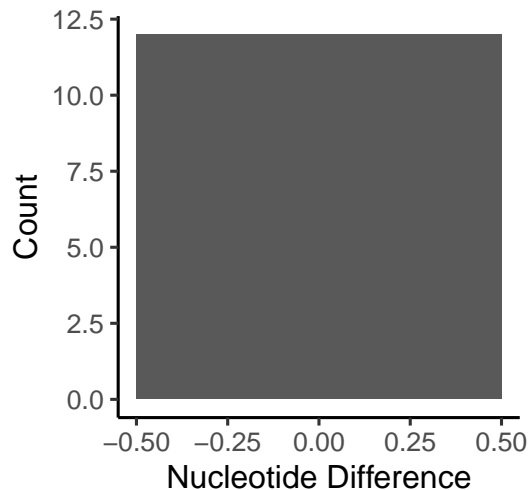
IGHV2-26*01

563 sequences assigned
491 (87.2%) exact matches, in which:
468 unique CDR3
7 unique J



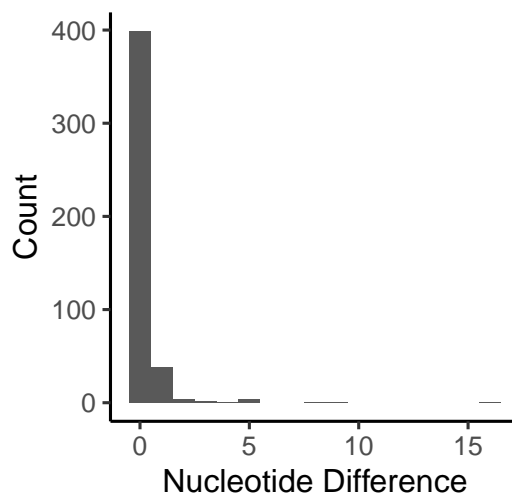
IGHV1-58*02

12 sequences assigned
12 (100%) exact matches, in which:
12 unique CDR3
4 unique J



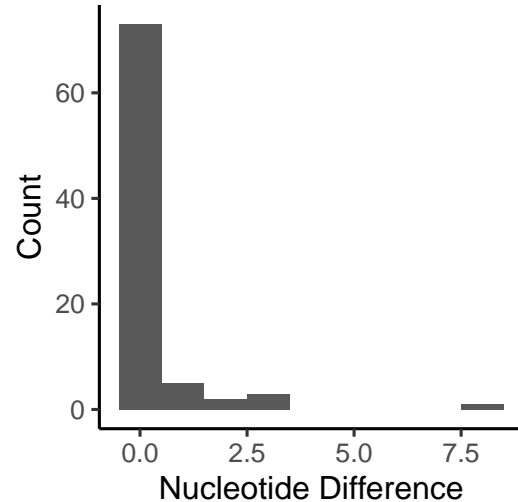
IGHV1-69*08_C191T

451 sequences assigned
399 (88.5%) exact matches, in which:
368 unique CDR3
6 unique J



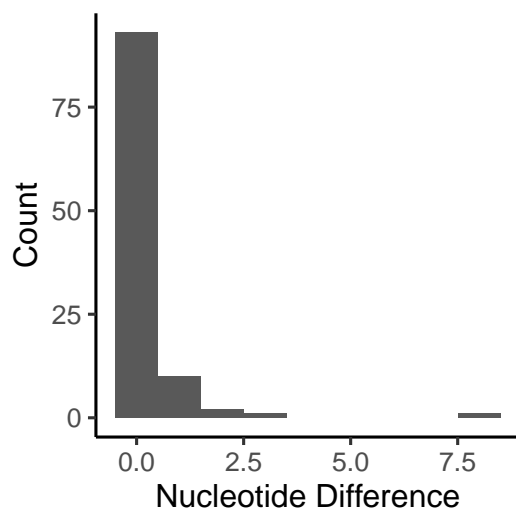
IGHV2-70*01

84 sequences assigned
73 (86.9%) exact matches, in which:
71 unique CDR3
5 unique J



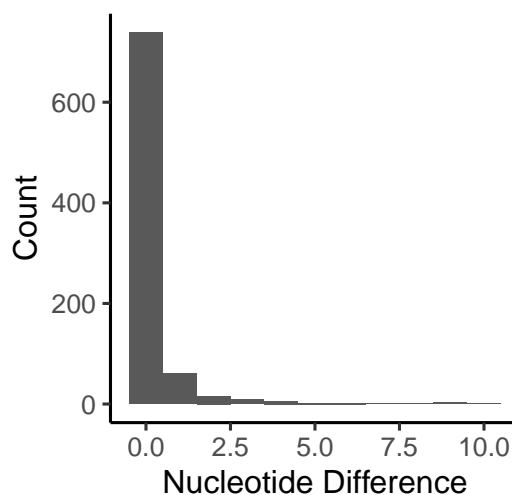
IGHV1-69-2*01

109 sequences assigned
93 (85.3%) exact matches, in which:
85 unique CDR3
6 unique J



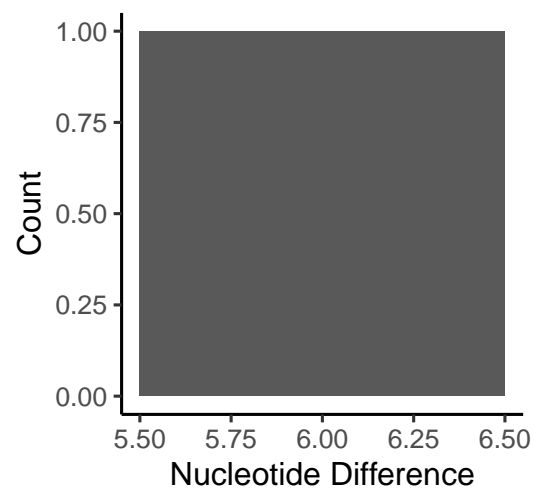
IGHV2-5*02

841 sequences assigned
739 (87.9%) exact matches, in which:
701 unique CDR3
7 unique J



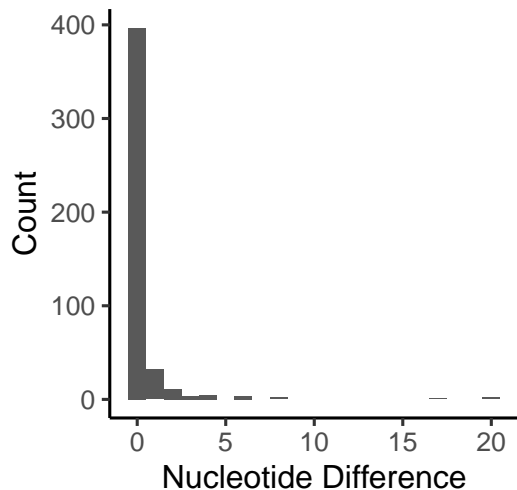
IGHV3-7*01

1 sequences assigned
No exact matches.



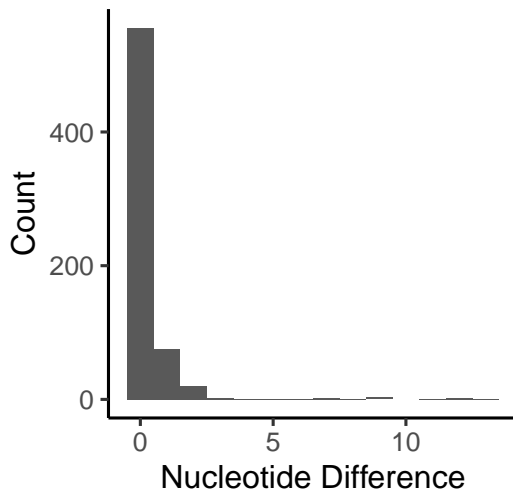
IGHV3-7*03

458 sequences assigned
397 (86.7%) exact matches, in which:
369 unique CDR3
7 unique J



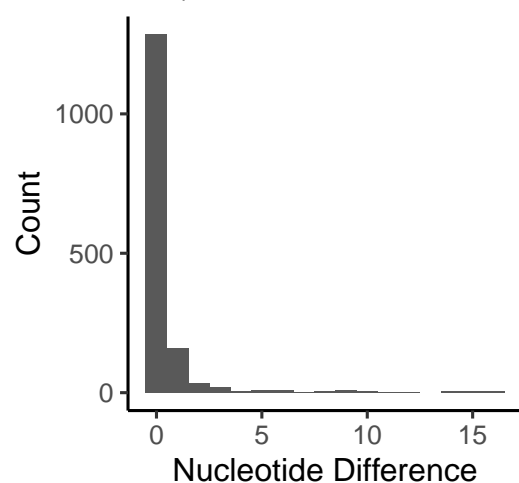
IGHV3-11*06

667 sequences assigned
556 (83.4%) exact matches, in which:
509 unique CDR3
6 unique J



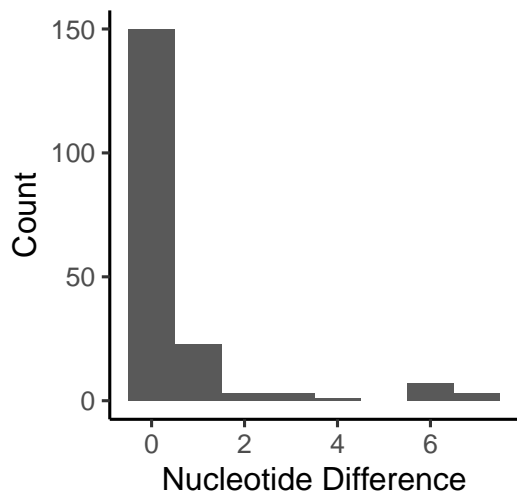
IGHV3-15*01

1565 sequences assigned
1285 (82.1%) exact matches, in which:
1180 unique CDR3
7 unique J



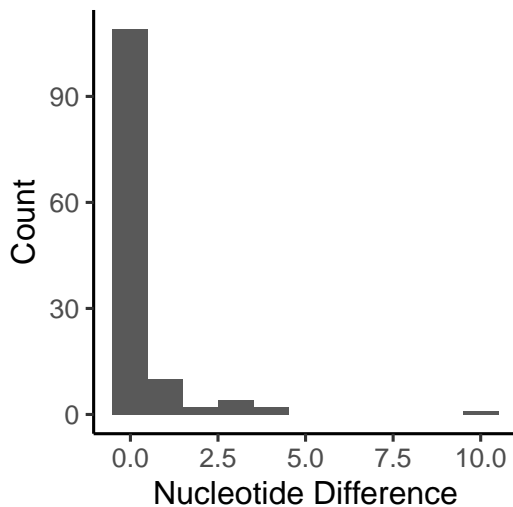
IGHV3-7*04

190 sequences assigned
150 (78.9%) exact matches, in which:
139 unique CDR3
7 unique J



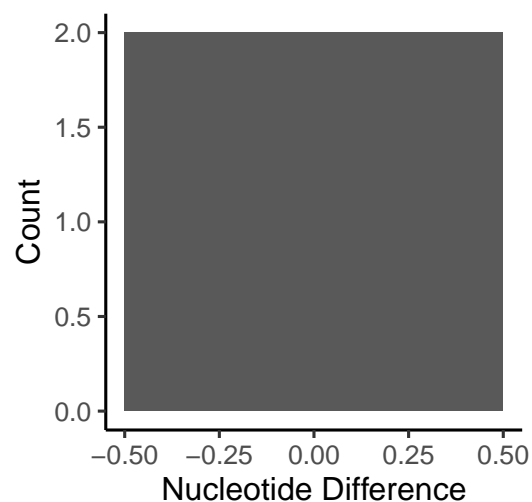
IGHV3-13*04

128 sequences assigned
109 (85.2%) exact matches, in which:
98 unique CDR3
5 unique J



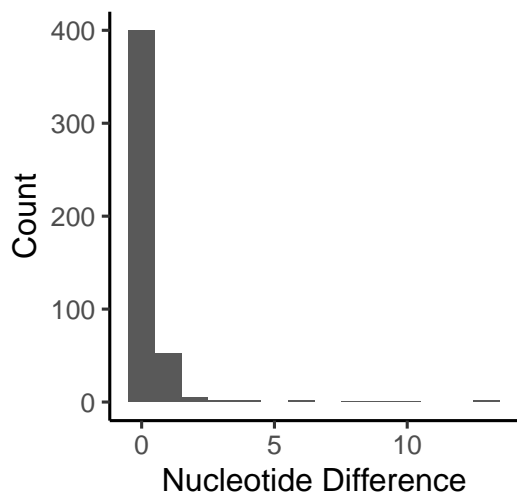
IGHV3-19*01

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



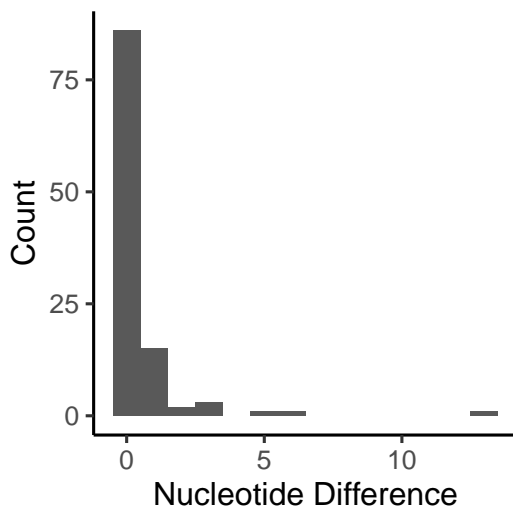
IGHV3-11*05

468 sequences assigned
400 (85.5%) exact matches, in which:
366 unique CDR3
6 unique J



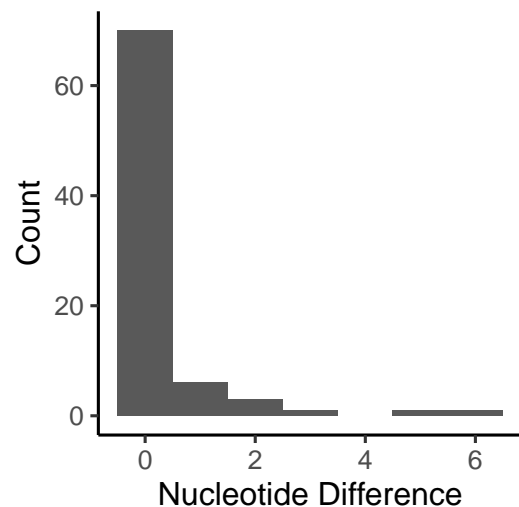
IGHV3-13*05

109 sequences assigned
86 (78.9%) exact matches, in which:
80 unique CDR3
5 unique J



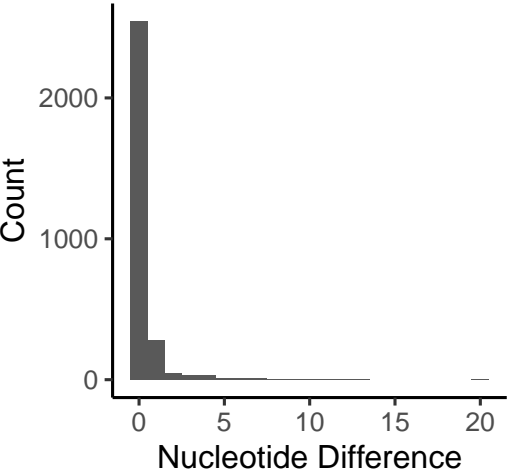
IGHV3-20*01

83 sequences assigned
70 (84.3%) exact matches, in which:
62 unique CDR3
5 unique J



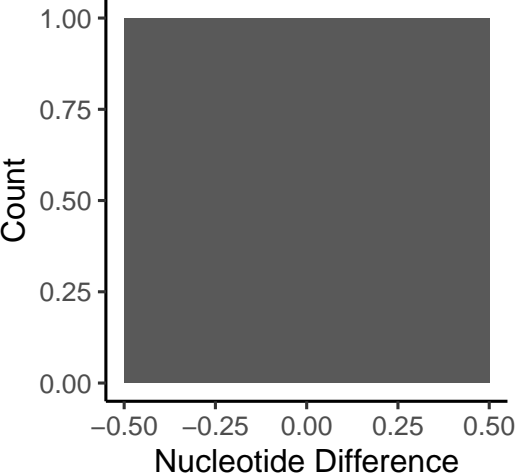
IGHV3-21*01

2984 sequences assigned
2543 (85.2%) exact matches, in which:
2304 unique CDR3
7 unique J



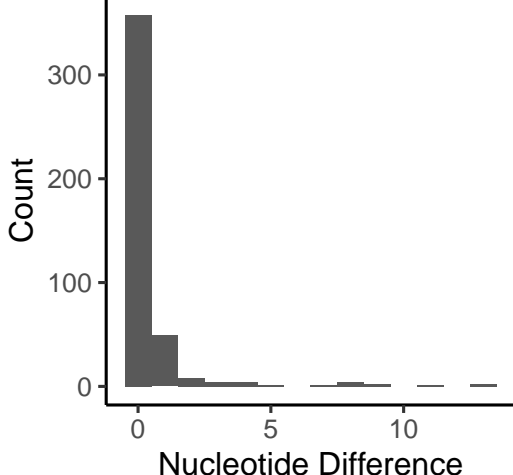
IGHV3-35*01

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



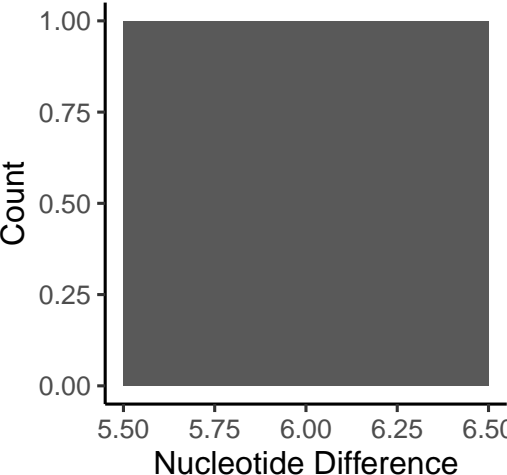
IGHV3-48*01

434 sequences assigned
358 (82.5%) exact matches, in which:
335 unique CDR3
6 unique J



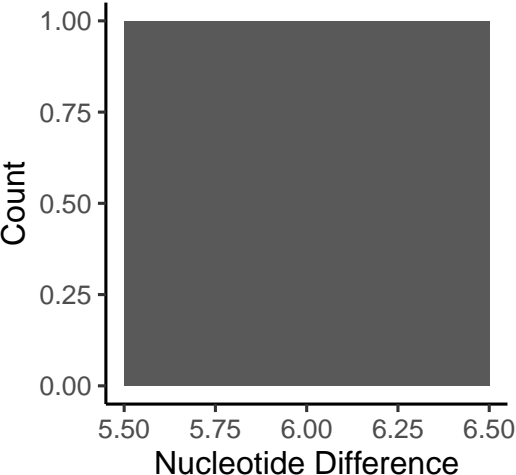
IGHV3-30-3*02

1 sequences assigned
No exact matches.



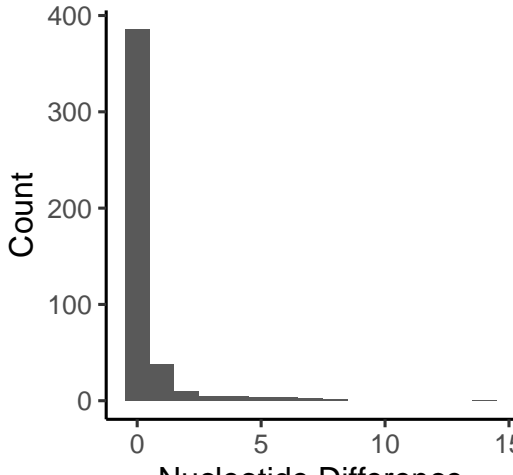
IGHV3-41*02

1 sequences assigned
No exact matches.



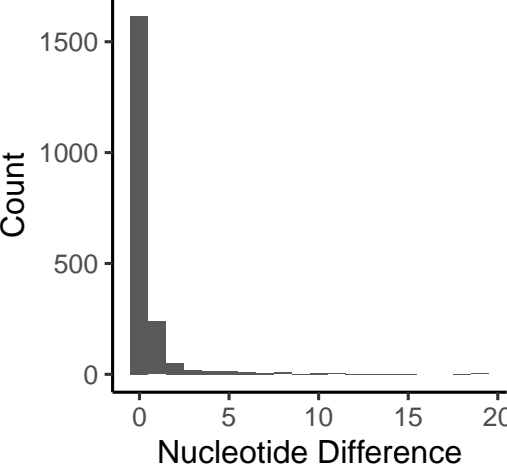
IGHV3-48*02

458 sequences assigned
386 (84.3%) exact matches, in which:
363 unique CDR3
6 unique J



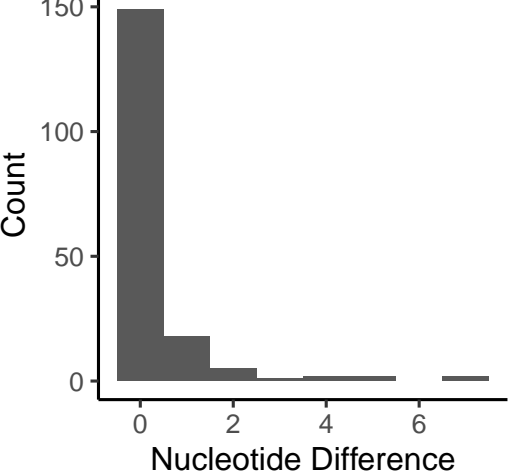
IGHV3-33*01

2003 sequences assigned
1616 (80.7%) exact matches, in which:
1489 unique CDR3
7 unique J



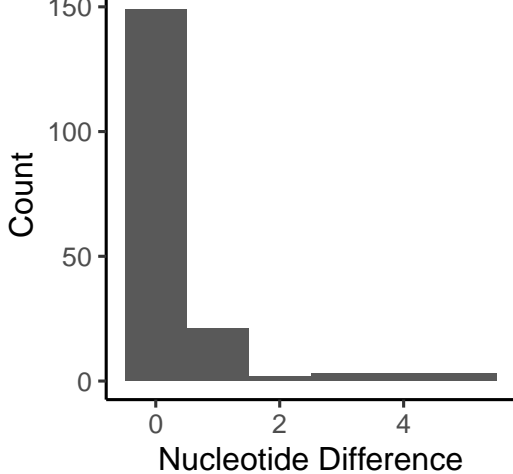
IGHV3-43*01

179 sequences assigned
149 (83.2%) exact matches, in which:
141 unique CDR3
7 unique J



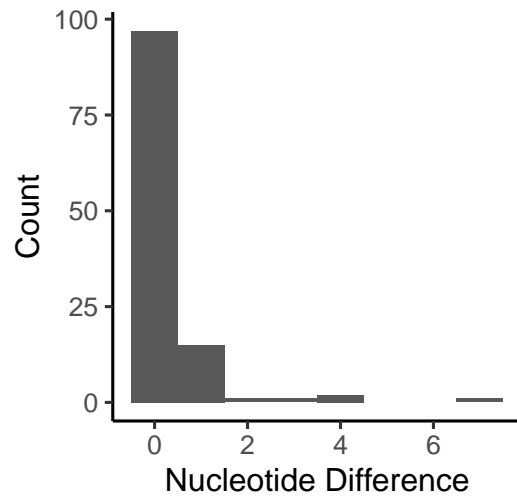
IGHV3-49*03

181 sequences assigned
149 (82.3%) exact matches, in which:
138 unique CDR3
5 unique J



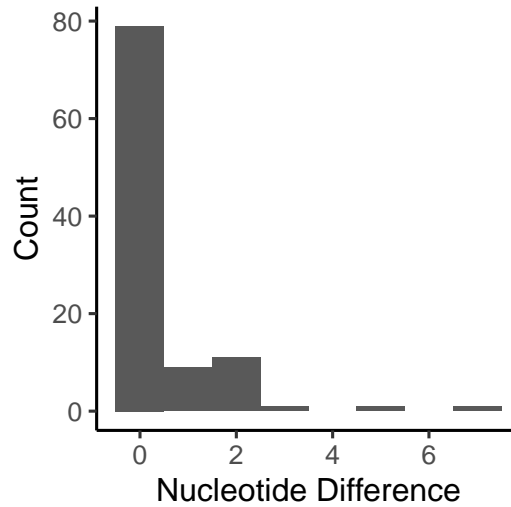
IGHV3-49*05

118 sequences assigned
97 (82.2%) exact matches, in which:
89 unique CDR3
6 unique J



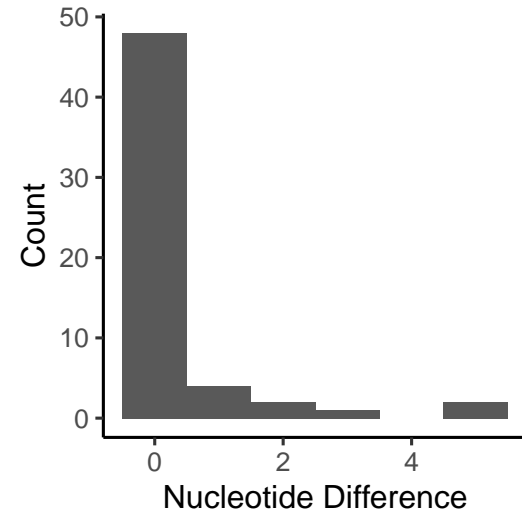
IGHV3-64*01

102 sequences assigned
79 (77.5%) exact matches, in which:
68 unique CDR3
6 unique J



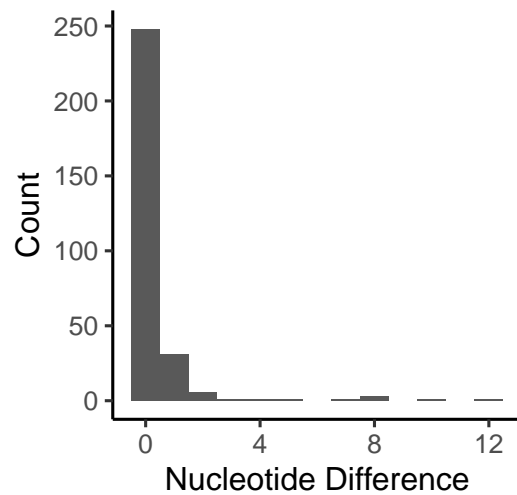
IGHV3-72*01

57 sequences assigned
48 (84.2%) exact matches, in which:
45 unique CDR3
6 unique J



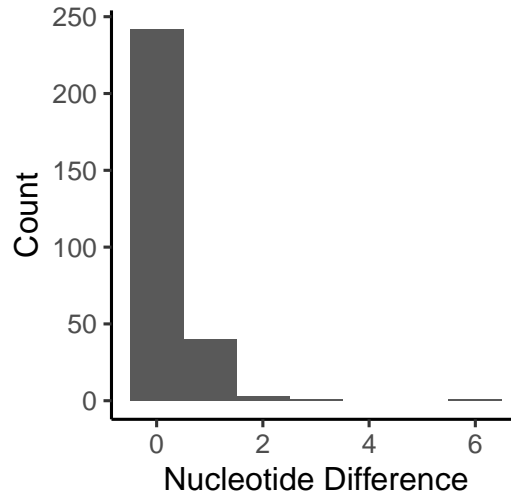
IGHV3-53*01

294 sequences assigned
248 (84.4%) exact matches, in which:
237 unique CDR3
6 unique J



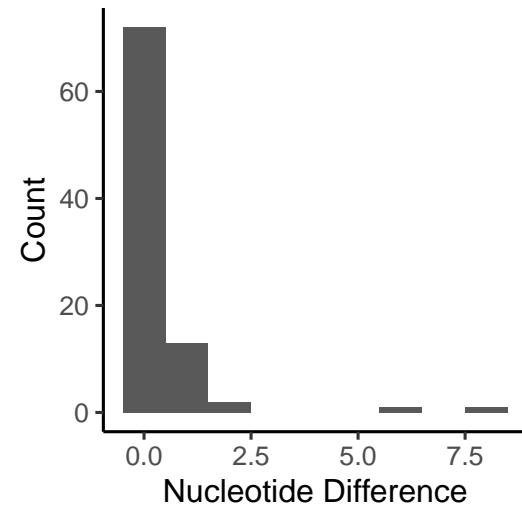
IGHV3-66*02

287 sequences assigned
242 (84.3%) exact matches, in which:
217 unique CDR3
6 unique J



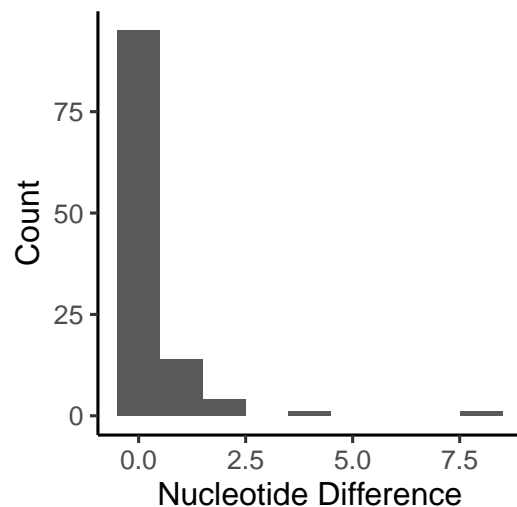
IGHV3-73*01

90 sequences assigned
72 (80%) exact matches, in which:
64 unique CDR3
6 unique J



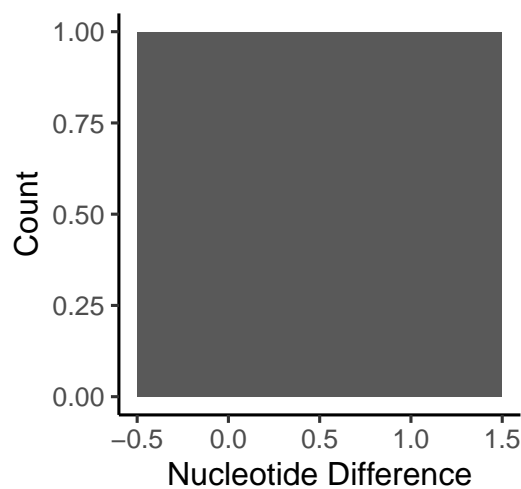
IGHV3-53*02

115 sequences assigned
95 (82.6%) exact matches, in which:
89 unique CDR3
6 unique J



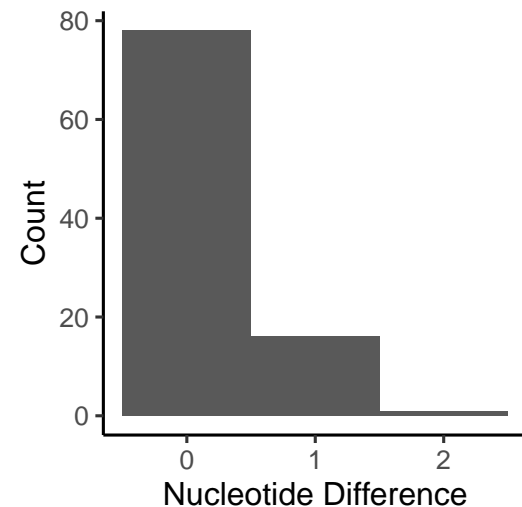
IGHV3-69-1*01

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



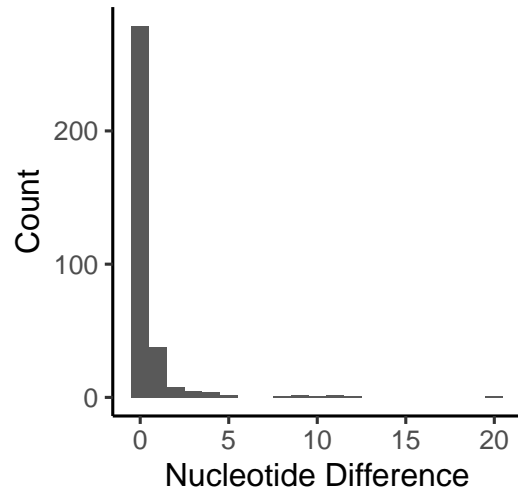
IGHV3-73*02

95 sequences assigned
78 (82.1%) exact matches, in which:
74 unique CDR3
6 unique J



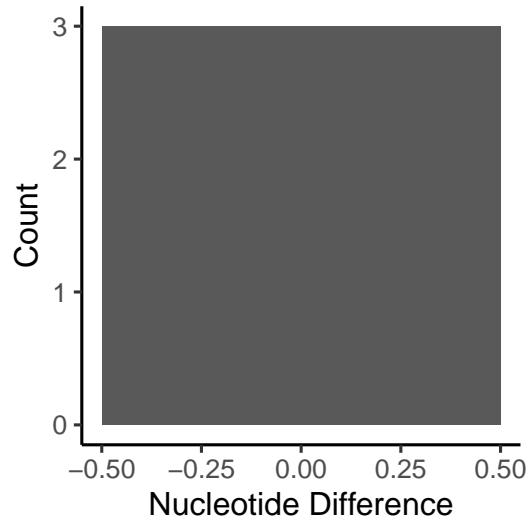
IGHV3-74*01

347 sequences assigned
279 (80.4%) exact matches, in which:
261 unique CDR3
7 unique J



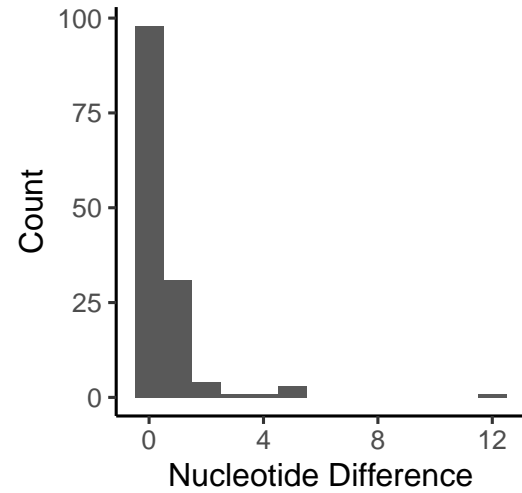
IGHV4-28*01

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



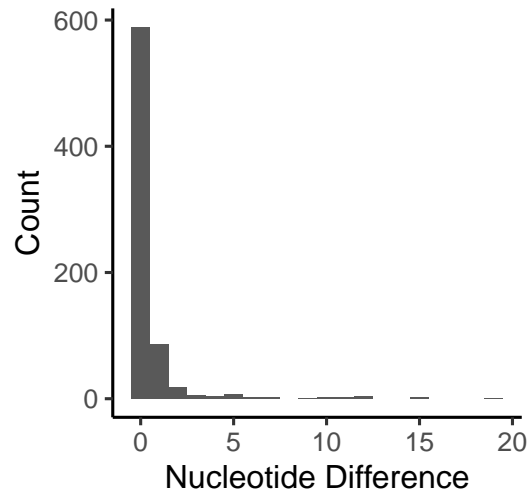
IGHV4-30-2*01

139 sequences assigned
98 (70.5%) exact matches, in which:
96 unique CDR3
6 unique J



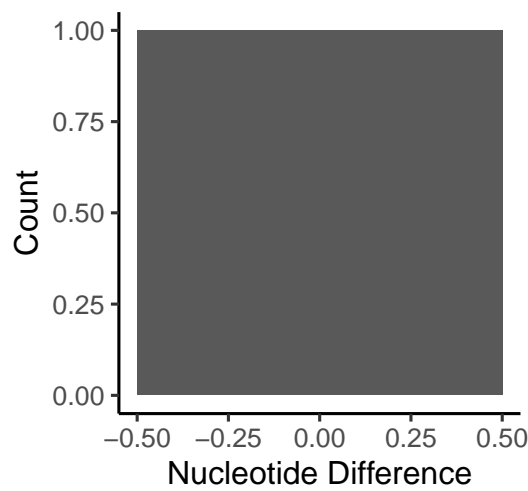
IGHV3-64D*06

735 sequences assigned
589 (80.1%) exact matches, in which:
532 unique CDR3
7 unique J



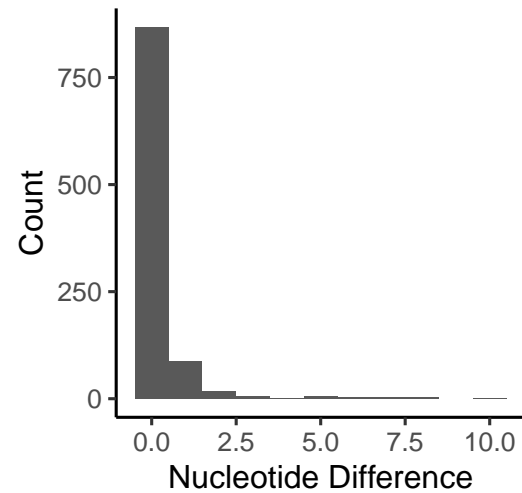
IGHV4-28*03

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



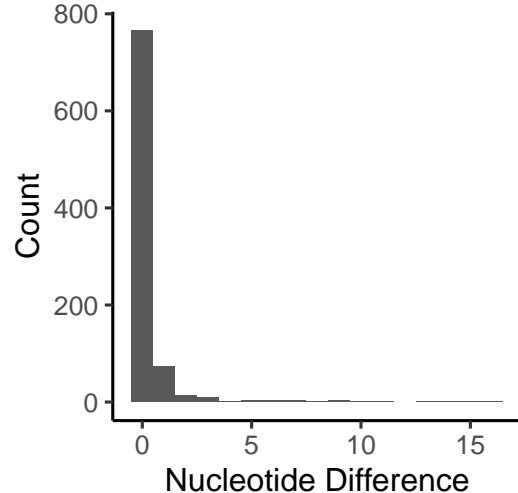
IGHV4-31*03

999 sequences assigned
868 (86.9%) exact matches, in which:
823 unique CDR3
7 unique J



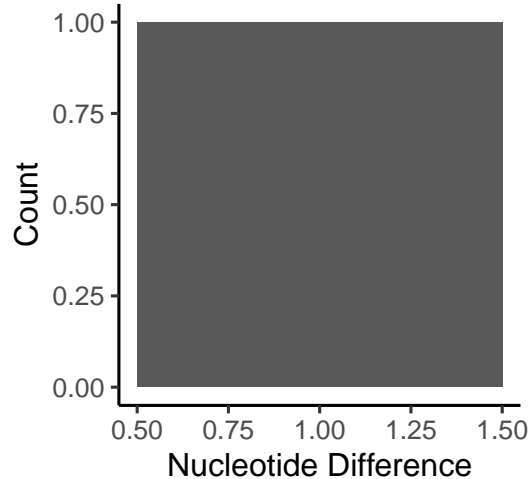
IGHV4-4*02

888 sequences assigned
766 (86.3%) exact matches, in which:
727 unique CDR3
7 unique J



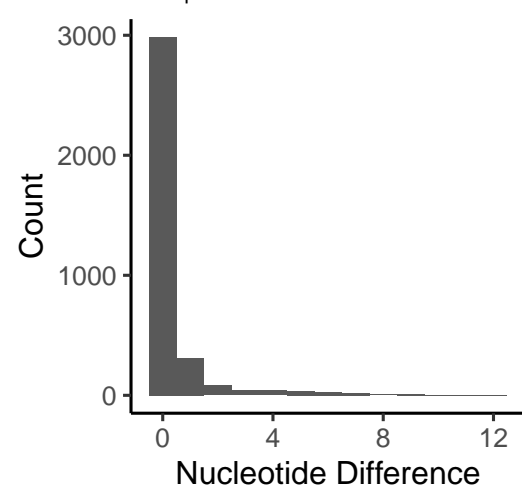
IGHV4-28*04

1 sequences assigned
No exact matches.



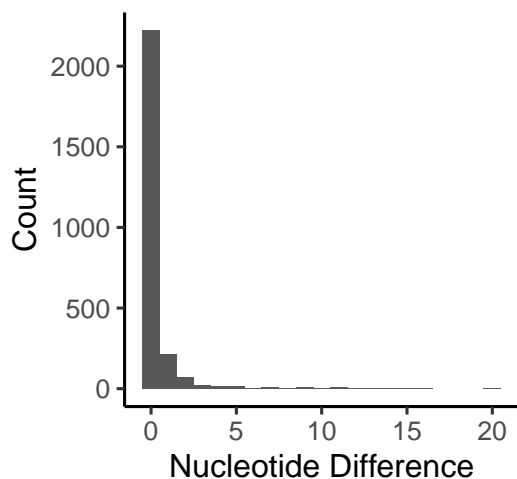
IGHV4-34*01

3568 sequences assigned
2985 (83.7%) exact matches, in which:
2685 unique CDR3
7 unique J



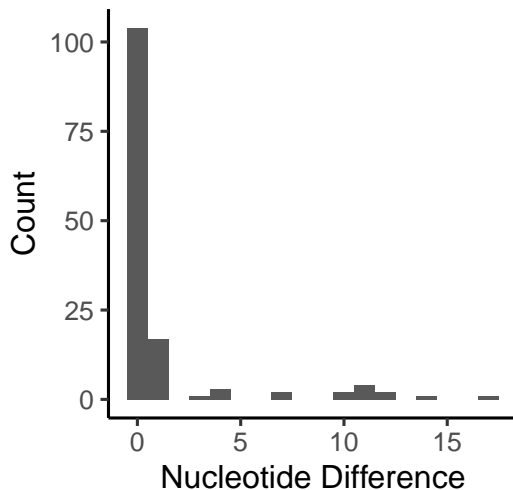
IGHV4-39*01

2626 sequences assigned
2222 (84.6%) exact matches, in which:
2035 unique CDR3
7 unique J



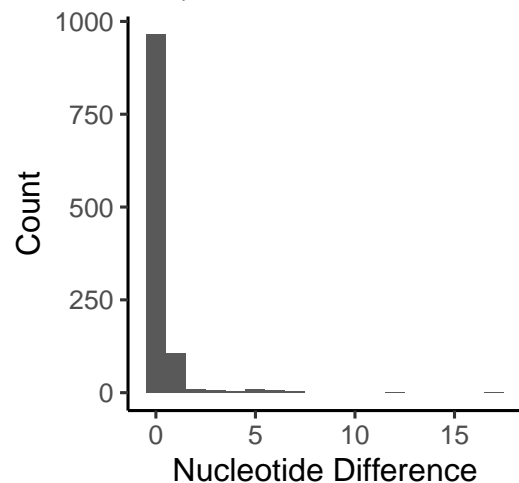
IGHV4-61*01

138 sequences assigned
104 (75.4%) exact matches, in which:
98 unique CDR3
5 unique J



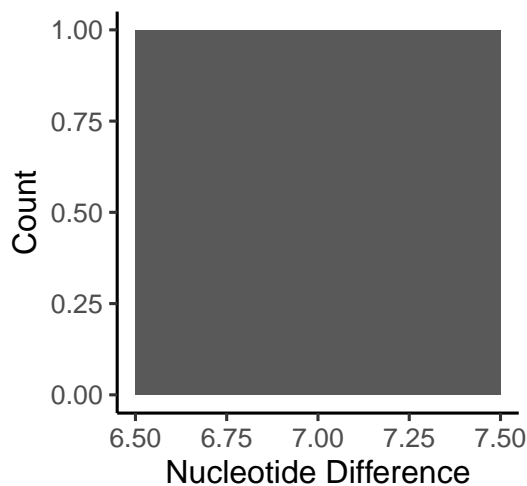
IGHV5-10-1*03

1116 sequences assigned
965 (86.5%) exact matches, in which:
911 unique CDR3
6 unique J



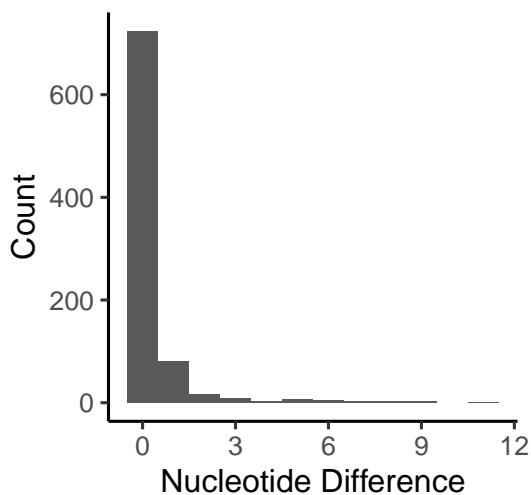
IGHV4-55*08

1 sequences assigned
No exact matches.



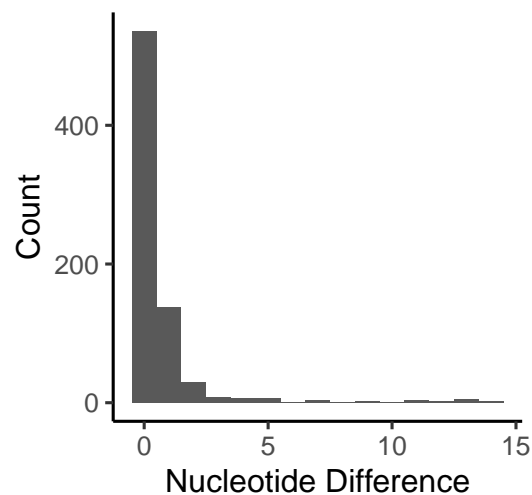
IGHV4-61*02

851 sequences assigned
724 (85.1%) exact matches, in which:
684 unique CDR3
7 unique J



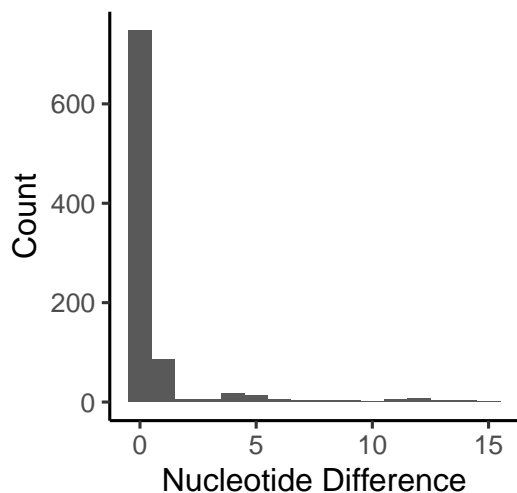
IGHV5-51*01

745 sequences assigned
536 (71.9%) exact matches, in which:
502 unique CDR3
7 unique J



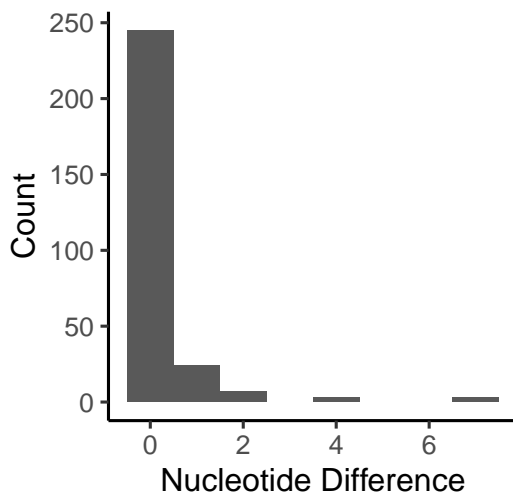
IGHV4-59*01

916 sequences assigned
748 (81.7%) exact matches, in which:
716 unique CDR3
7 unique J



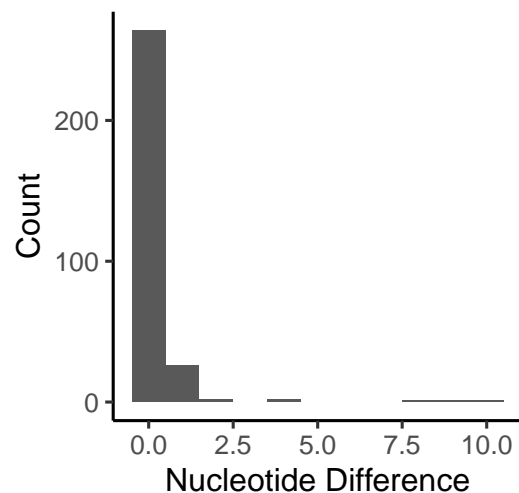
IGHV5-10-1*01

282 sequences assigned
245 (86.9%) exact matches, in which:
229 unique CDR3
7 unique J



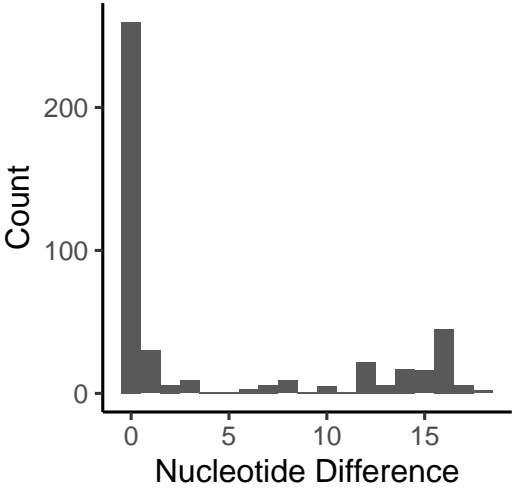
IGHV5-51*03

299 sequences assigned
264 (88.3%) exact matches, in which:
239 unique CDR3
6 unique J



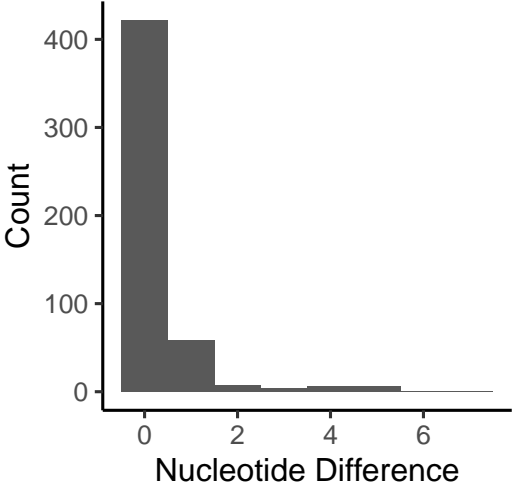
IGHV6-1*01

448 sequences assigned
260 (58%) exact matches, in which:
245 unique CDR3
6 unique J

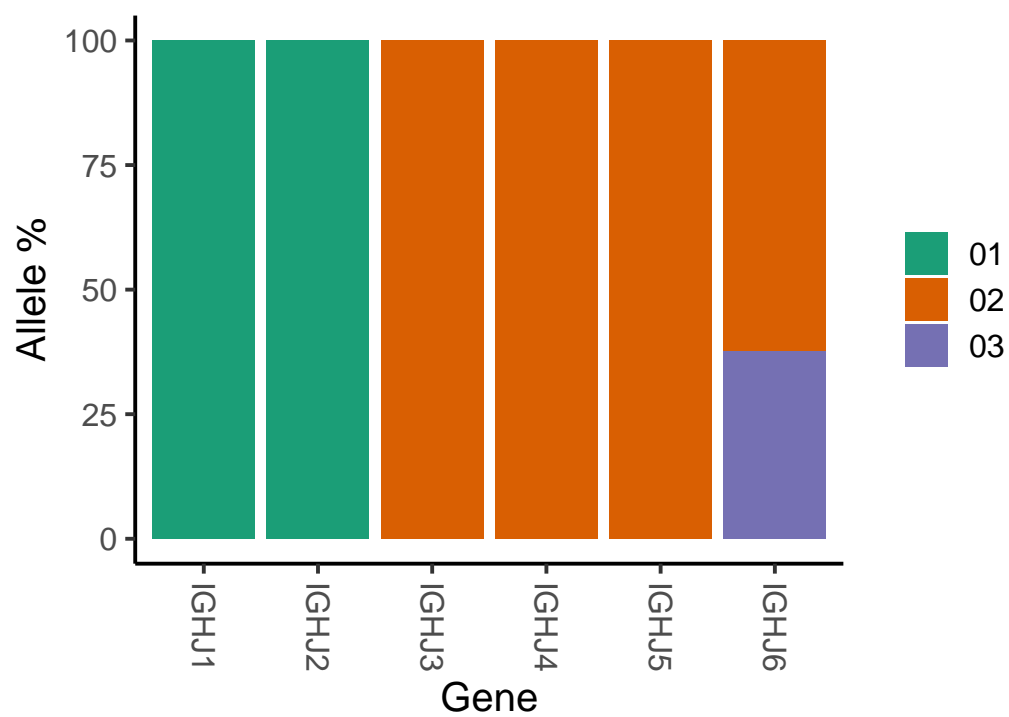


IGHV7-4-1*02

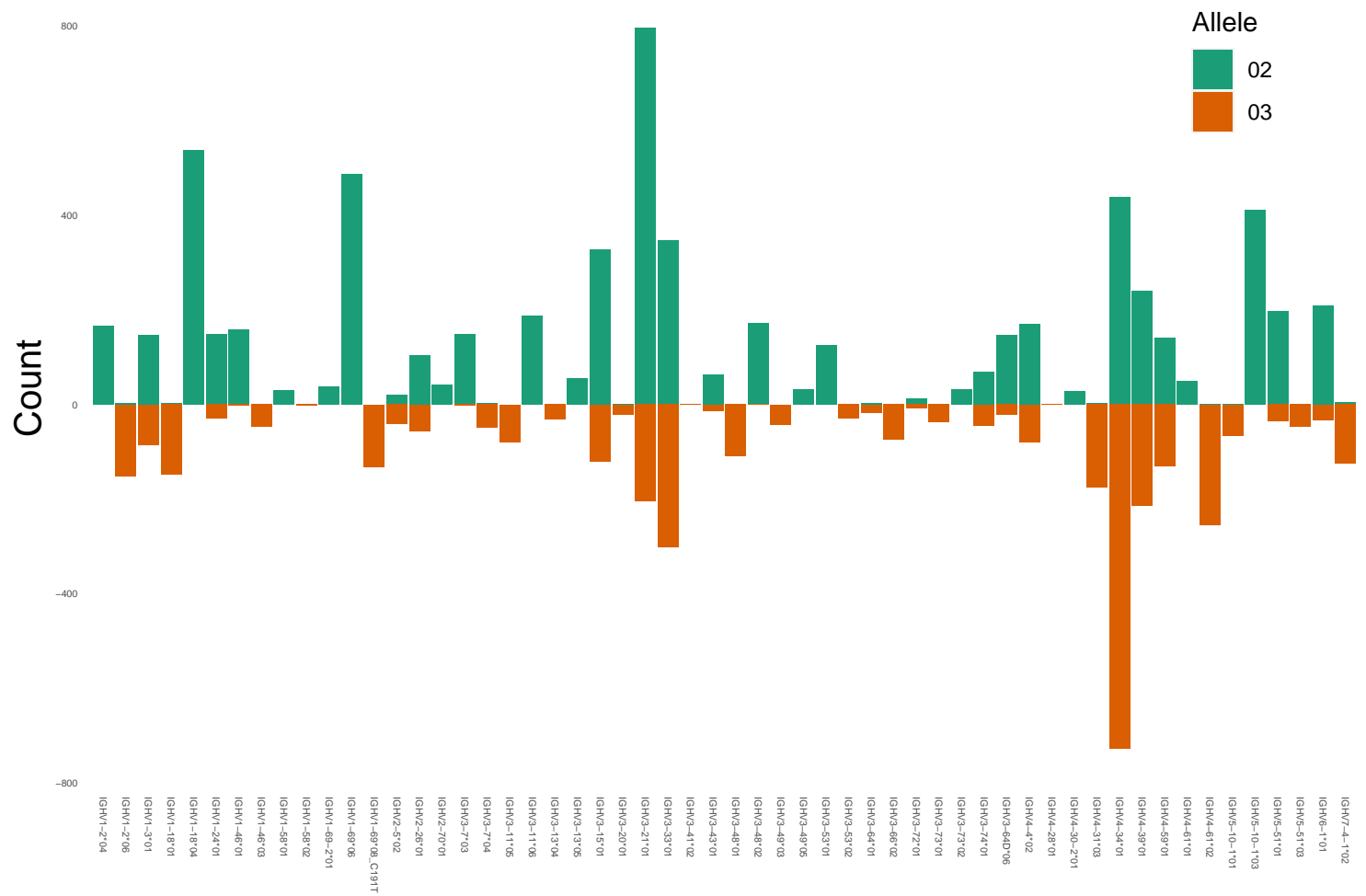
506 sequences assigned
422 (83.4%) exact matches, in which:
399 unique CDR3
7 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.