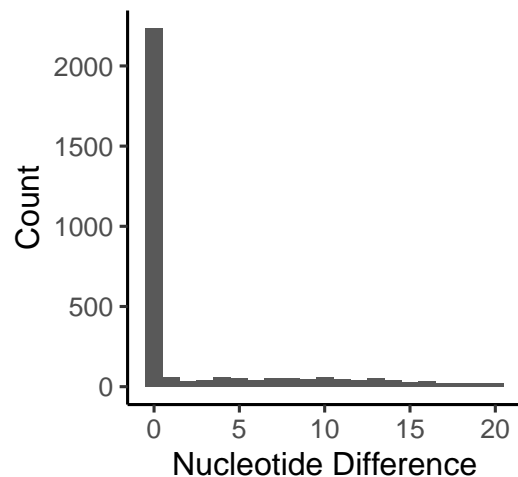


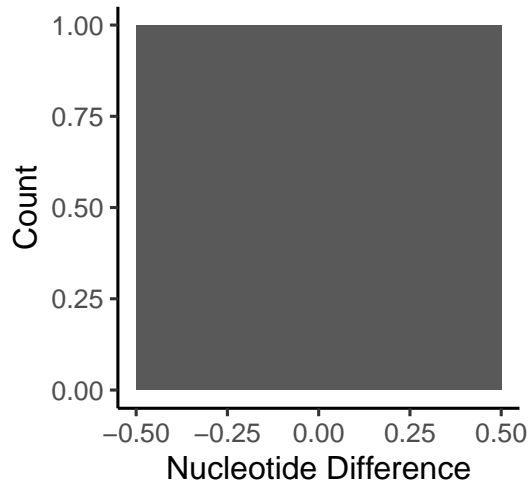
IGHV1-2*02

3203 sequences assigned
2234 (69.7%) exact matches, in which:
2214 unique CDR3
6 unique J



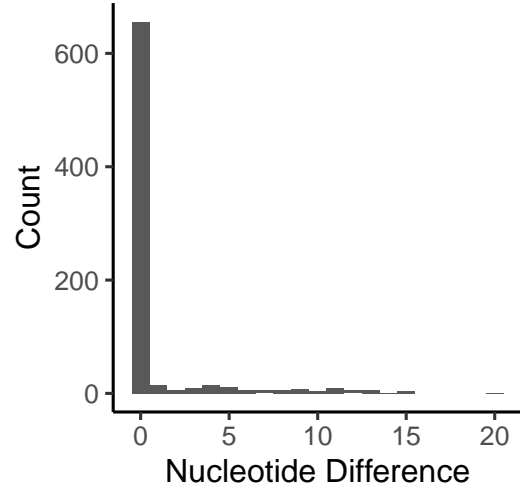
IGHV1-3*01_05

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



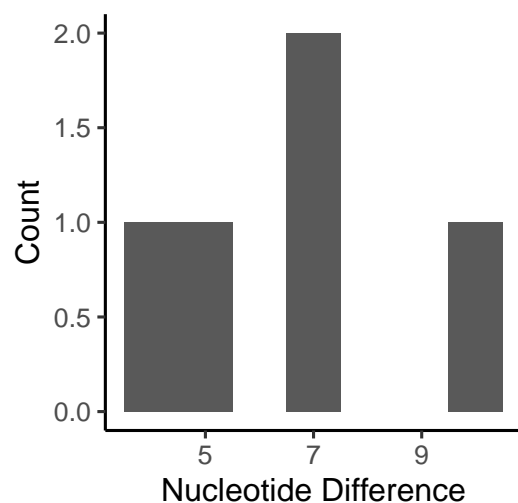
IGHV1-24*01

769 sequences assigned
656 (85.3%) exact matches, in which:
653 unique CDR3
6 unique J



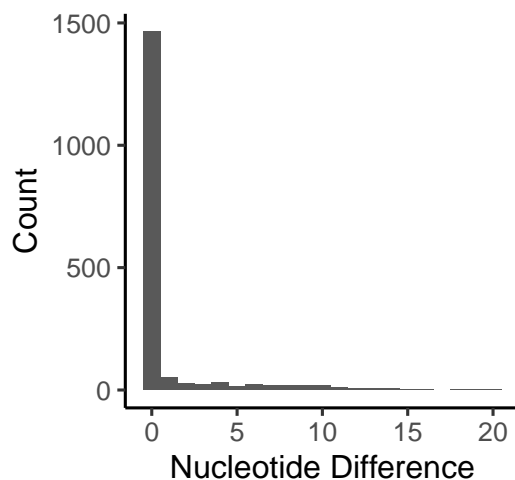
IGHV1-3*02

5 sequences assigned
No exact matches.



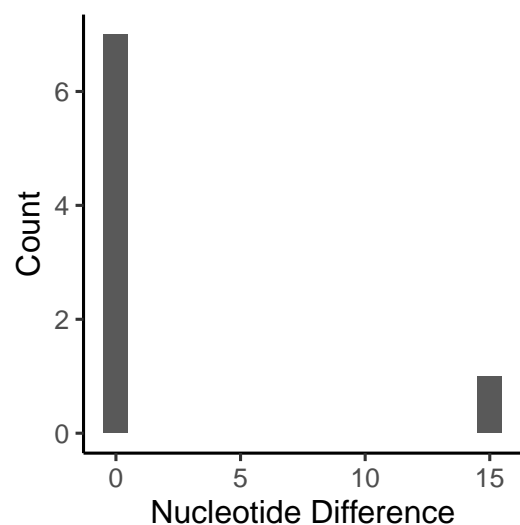
IGHV1-8*01

1759 sequences assigned
1464 (83.2%) exact matches, in which:
1446 unique CDR3
6 unique J



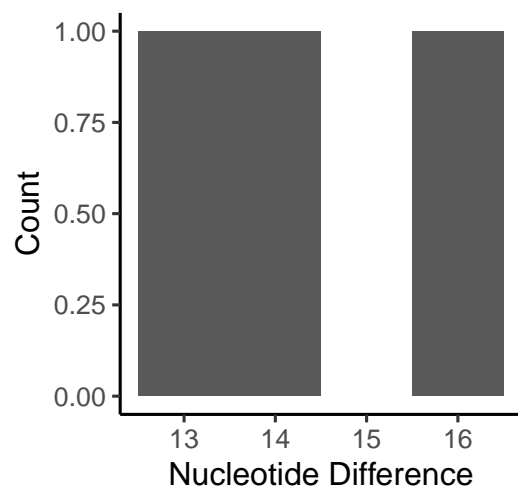
IGHV1-45*02

9 sequences assigned
7 (77.8%) exact matches, in which:
7 unique CDR3
4 unique J



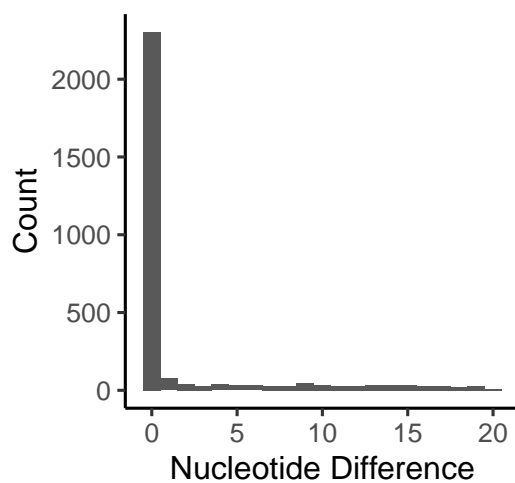
IGHV1-3*03

3 sequences assigned
No exact matches.



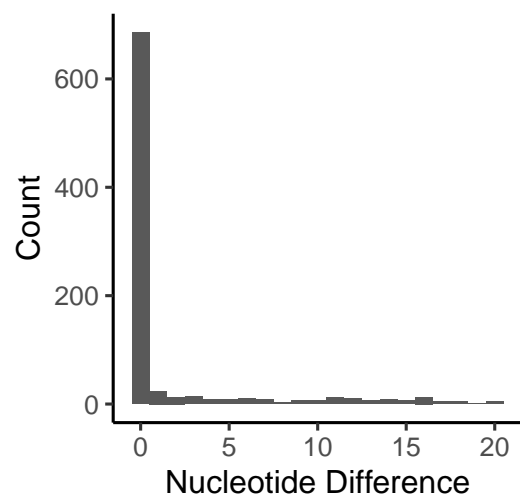
IGHV1-18*01

3096 sequences assigned
2303 (74.4%) exact matches, in which:
2268 unique CDR3
6 unique J



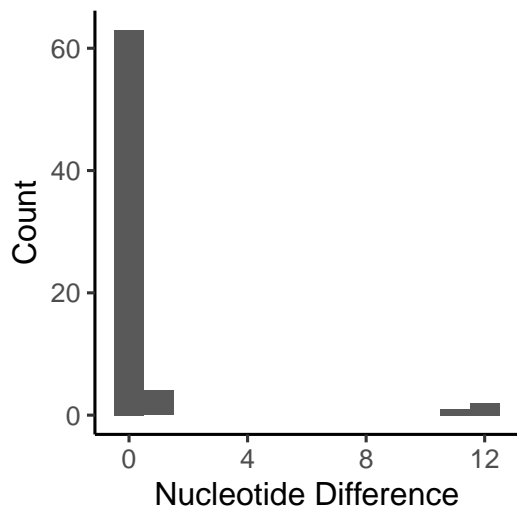
IGHV1-46*01

899 sequences assigned
686 (76.3%) exact matches, in which:
682 unique CDR3
6 unique J



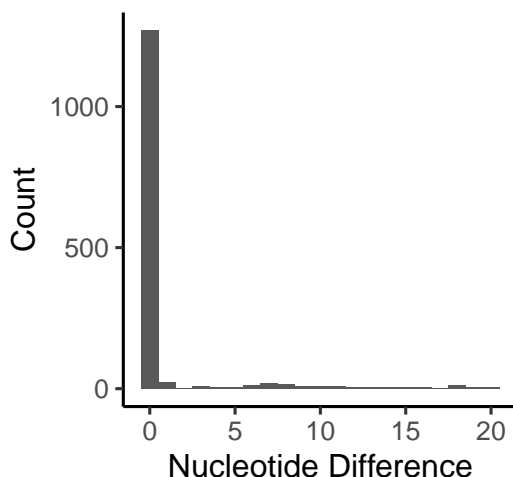
IGHV1-58*02

74 sequences assigned
63 (85.1%) exact matches, in which:
63 unique CDR3
4 unique J



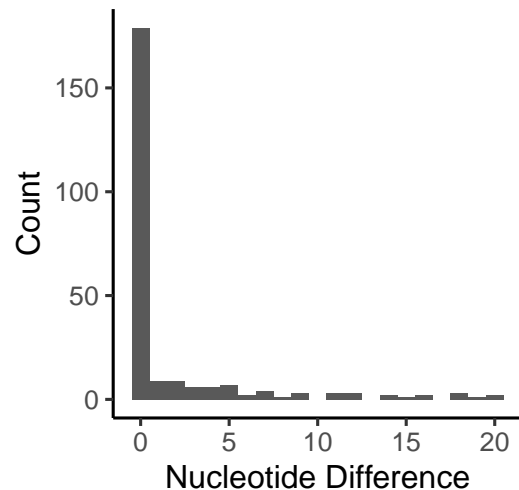
IGHV1-69*01_12_13

1469 sequences assigned
1270 (86.5%) exact matches, in which:
1257 unique CDR3
6 unique J



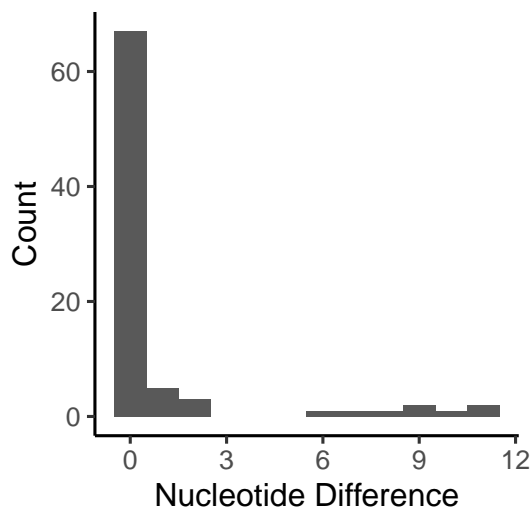
IGHV2-26*01

244 sequences assigned
179 (73.4%) exact matches, in which:
175 unique CDR3
5 unique J



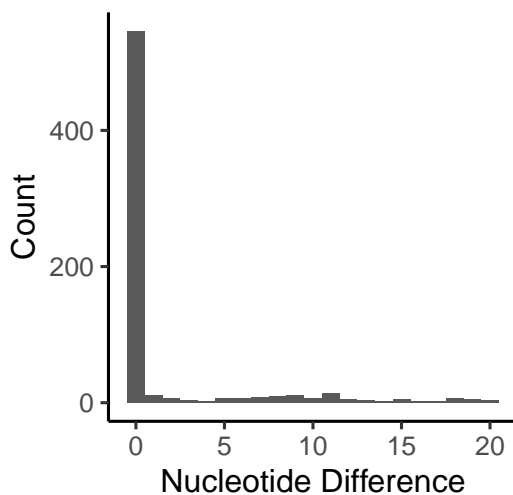
IGHV1-58*01_03

86 sequences assigned
67 (77.9%) exact matches, in which:
67 unique CDR3
6 unique J



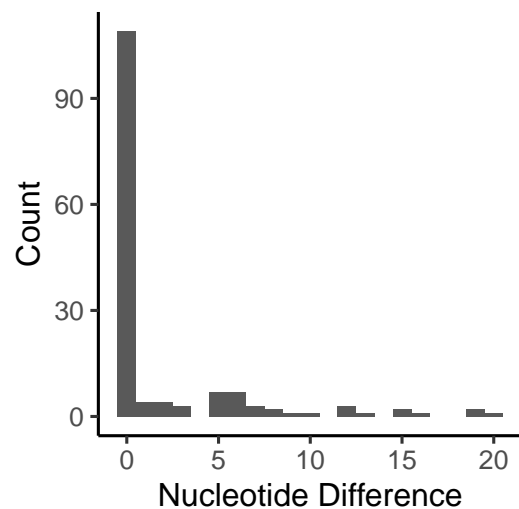
IGHV1-69*17

684 sequences assigned
546 (79.8%) exact matches, in which:
543 unique CDR3
6 unique J



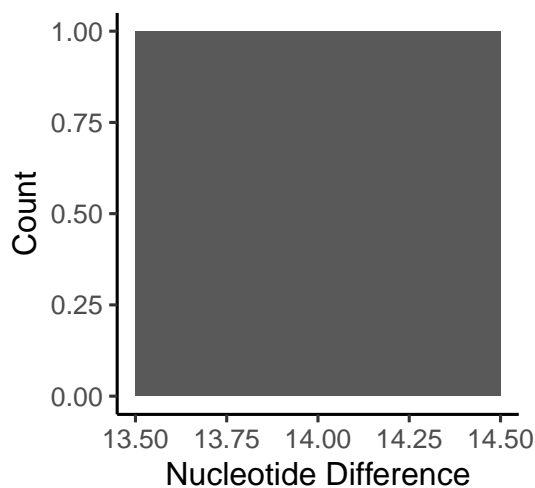
IGHV2-70*01

154 sequences assigned
109 (70.8%) exact matches, in which:
109 unique CDR3
6 unique J



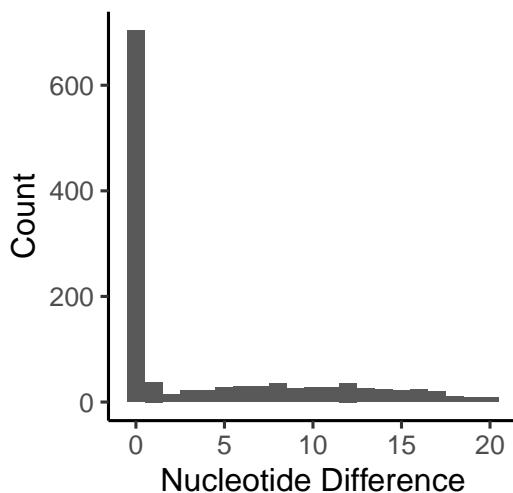
IGHV1-69-2*01

1 sequences assigned
No exact matches.



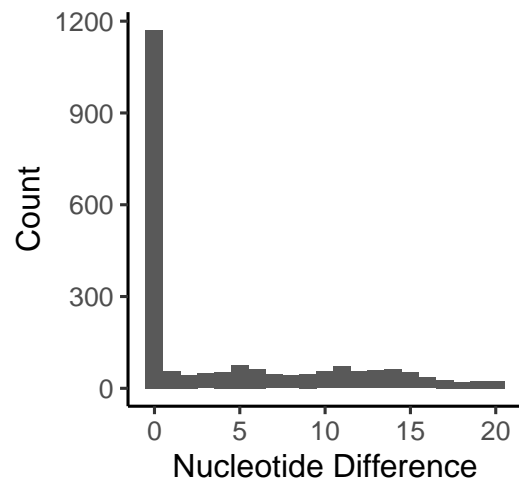
IGHV2-5*01

1338 sequences assigned
704 (52.6%) exact matches, in which:
696 unique CDR3
6 unique J



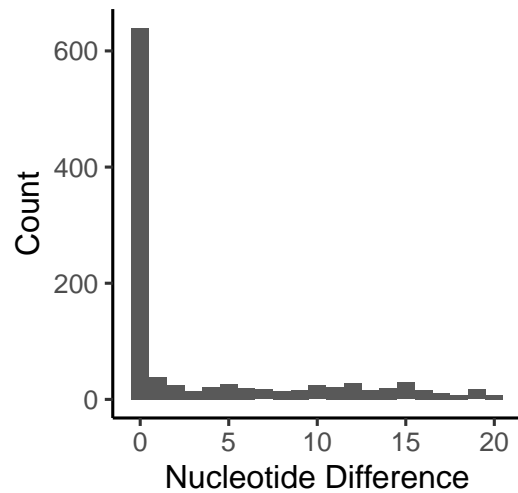
IGHV3-7*01

2202 sequences assigned
1171 (53.2%) exact matches, in which:
1109 unique CDR3
6 unique J



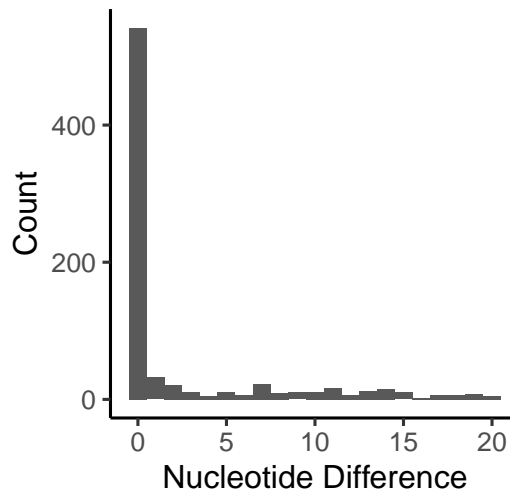
IGHV3-9*01

1069 sequences assigned
640 (59.9%) exact matches, in which:
607 unique CDR3
6 unique J



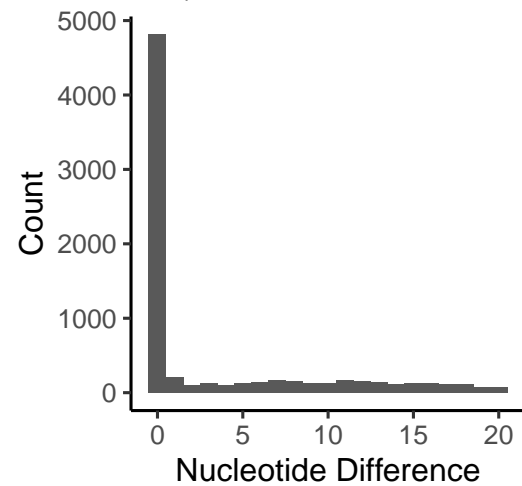
IGHV3-15*01_02

782 sequences assigned
542 (69.3%) exact matches, in which:
499 unique CDR3
6 unique J



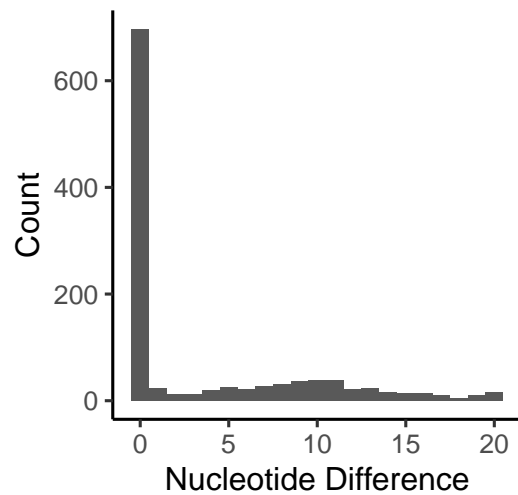
IGHV3-23*01_04

7737 sequences assigned
4814 (62.2%) exact matches, in which:
4580 unique CDR3
6 unique J



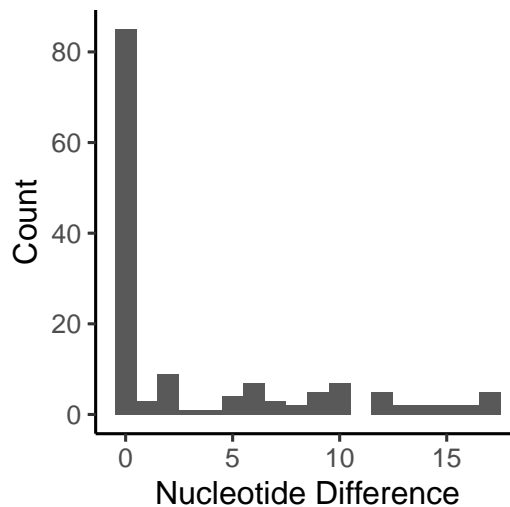
IGHV3-11*01

1153 sequences assigned
697 (60.5%) exact matches, in which:
656 unique CDR3
6 unique J



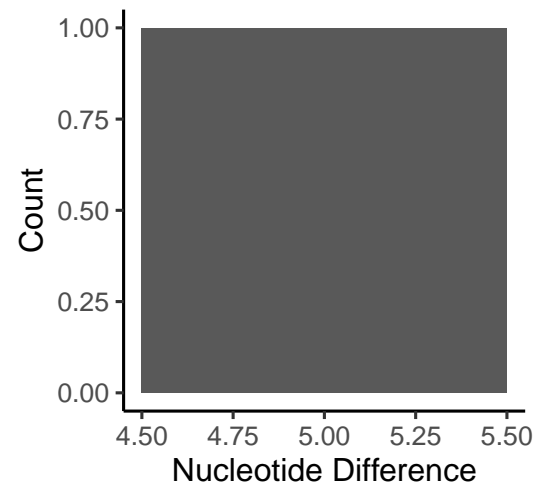
IGHV3-20*01_02

145 sequences assigned
85 (58.6%) exact matches, in which:
80 unique CDR3
6 unique J



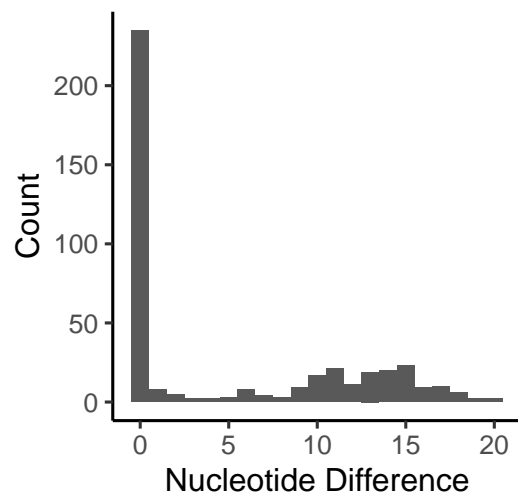
IGHV3-30-3*02

1 sequences assigned
No exact matches.



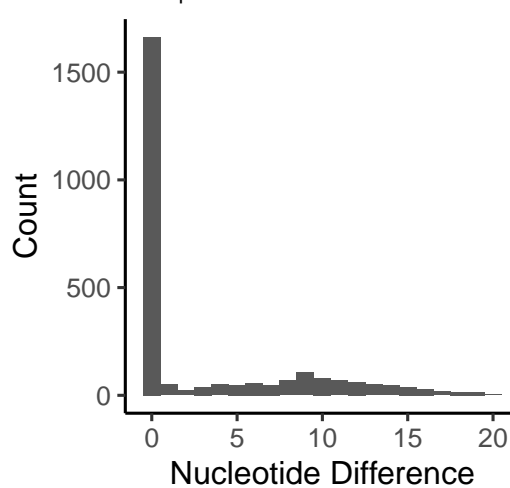
IGHV3-13*01

451 sequences assigned
235 (52.1%) exact matches, in which:
221 unique CDR3
6 unique J



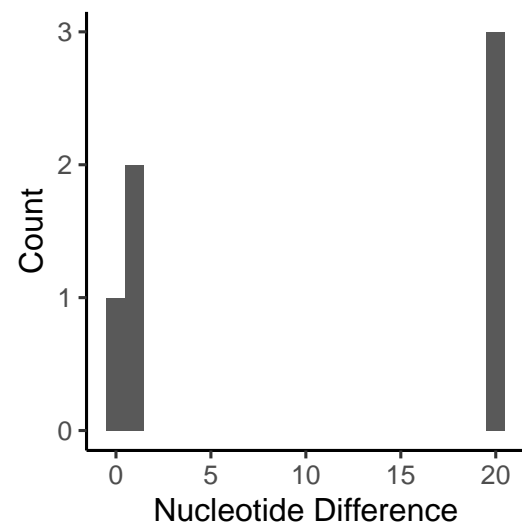
IGHV3-21*01_02

2684 sequences assigned
1663 (62%) exact matches, in which:
1538 unique CDR3
6 unique J



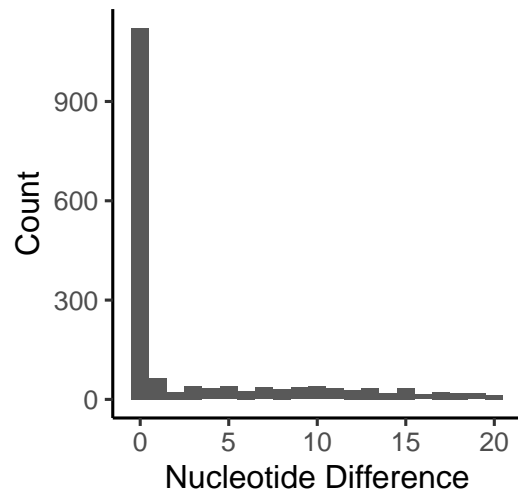
IGHV3-30-3*03

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



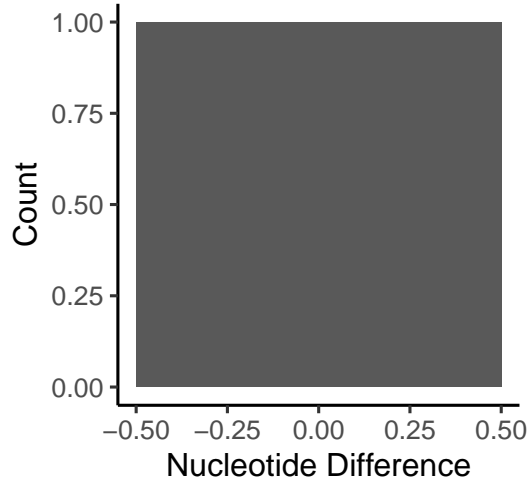
IGHV3–33*01

1813 sequences assigned
1123 (61.9%) exact matches, in which:
1033 unique CDR3
6 unique J



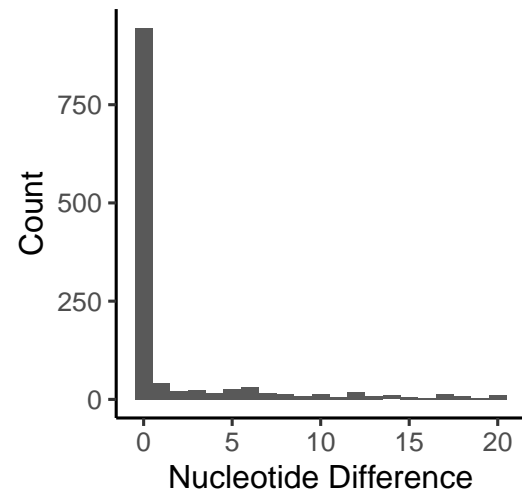
IGHV3–47*02

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



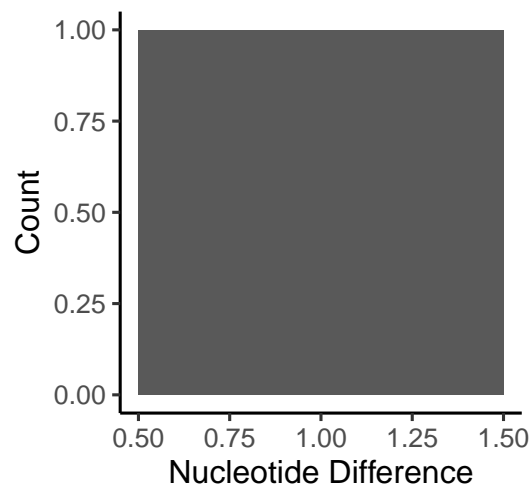
IGHV3–53*01_02

1265 sequences assigned
946 (74.8%) exact matches, in which:
897 unique CDR3
6 unique J



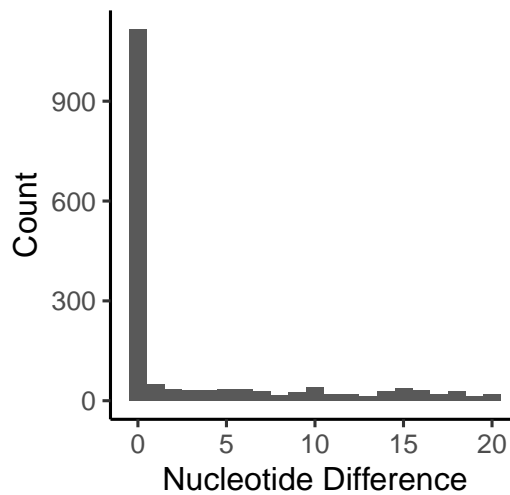
IGHV3–35*01

1 sequences assigned
No exact matches.



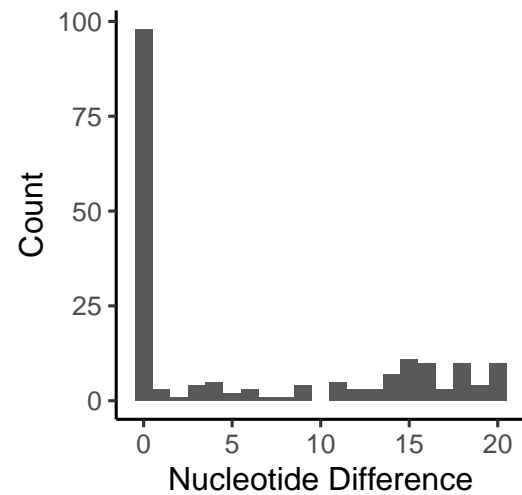
IGHV3–48*02

1748 sequences assigned
1117 (63.9%) exact matches, in which:
1039 unique CDR3
6 unique J



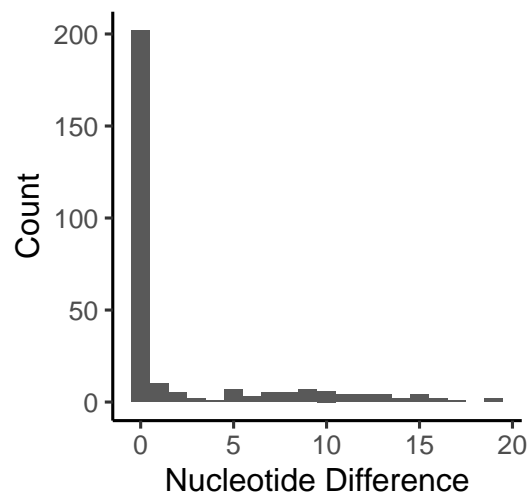
IGHV3–64*01

275 sequences assigned
98 (35.6%) exact matches, in which:
84 unique CDR3
6 unique J



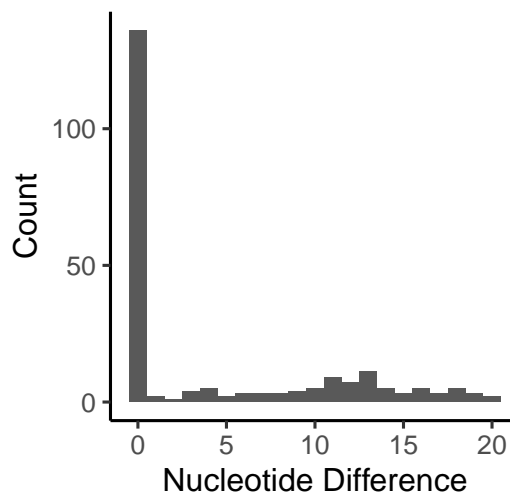
IGHV3–43*01

287 sequences assigned
202 (70.4%) exact matches, in which:
191 unique CDR3
6 unique J



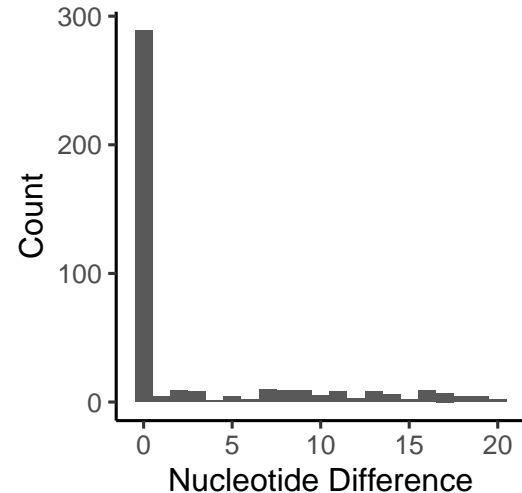
IGHV3–49*03_05

259 sequences assigned
136 (52.5%) exact matches, in which:
134 unique CDR3
5 unique J



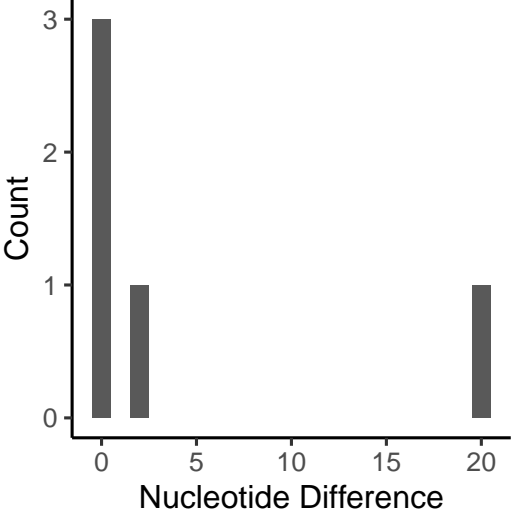
IGHV3–66*02

414 sequences assigned
289 (69.8%) exact matches, in which:
276 unique CDR3
6 unique J



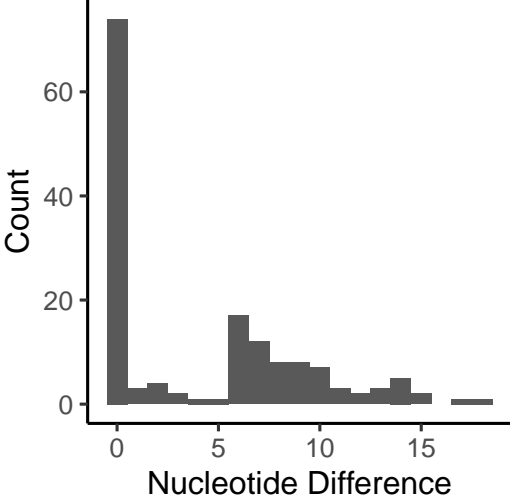
IGHV3-69-1*01

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



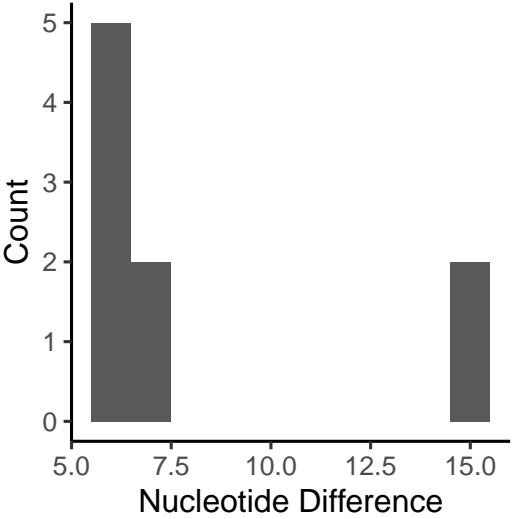
IGHV3-73*01_02

161 sequences assigned
74 (46%) exact matches, in which:
70 unique CDR3
5 unique J



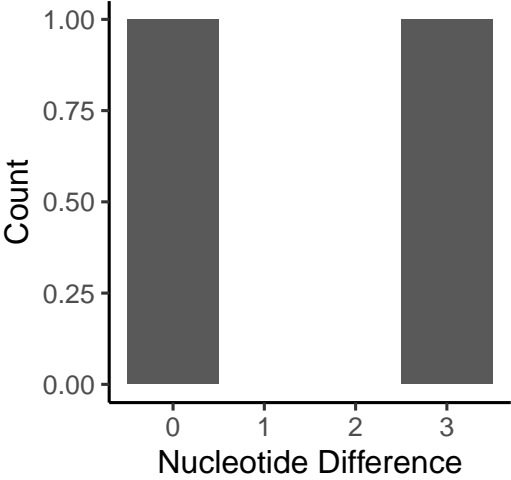
IGHV3-43D*04

9 sequences assigned
No exact matches.



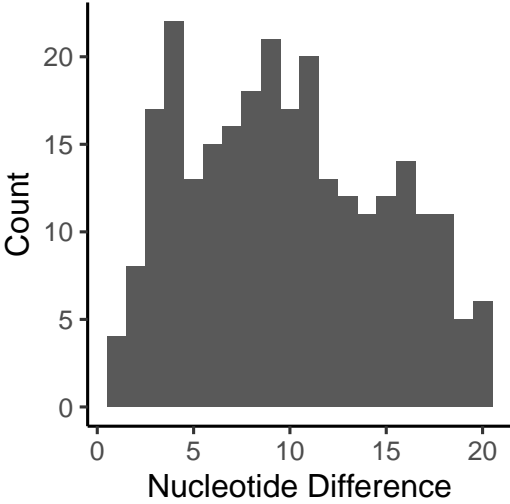
IGHV3-69-1*02

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



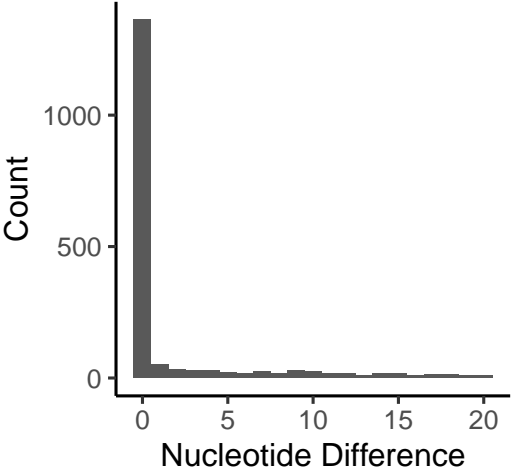
IGHV3-74*03

280 sequences assigned
No exact matches.



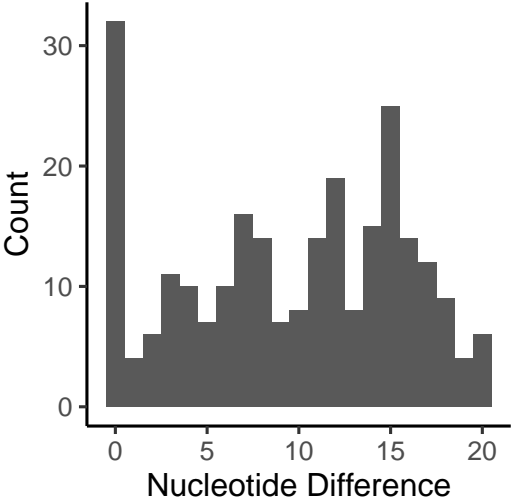
IGHV4-4*07

1836 sequences assigned
1363 (74.2%) exact matches, in which:
1312 unique CDR3
6 unique J



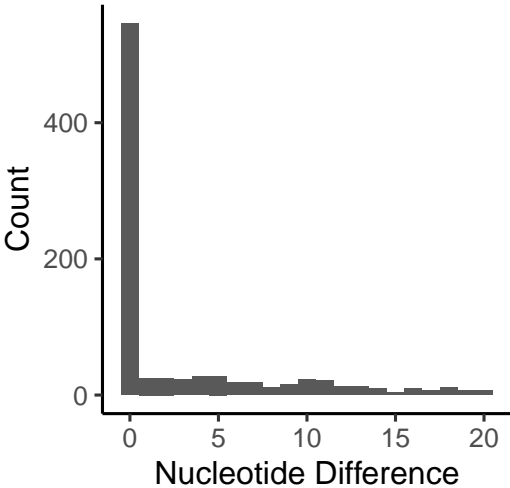
IGHV3-72*01

265 sequences assigned
32 (12.1%) exact matches, in which:
30 unique CDR3
4 unique J



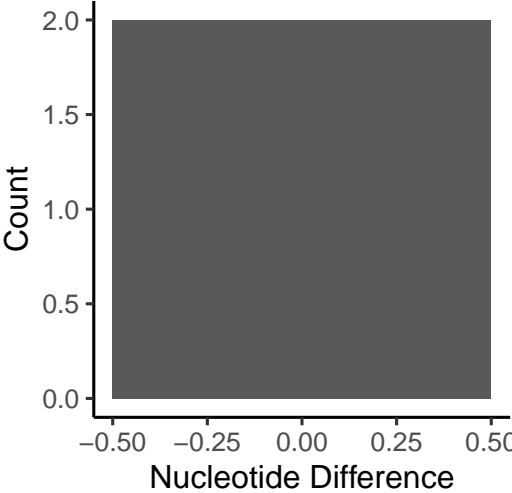
IGHV3-74*01_02

868 sequences assigned
546 (62.9%) exact matches, in which:
505 unique CDR3
6 unique J



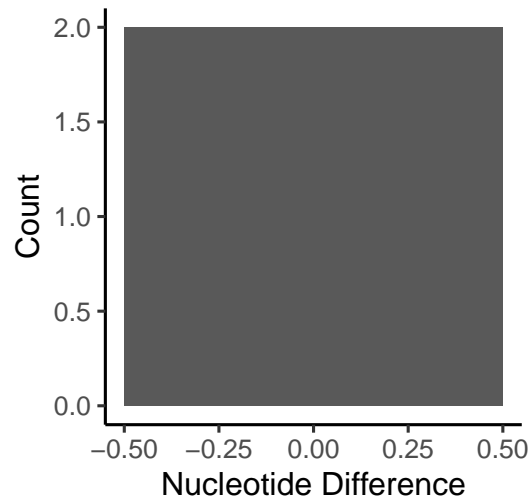
IGHV4-28*03

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



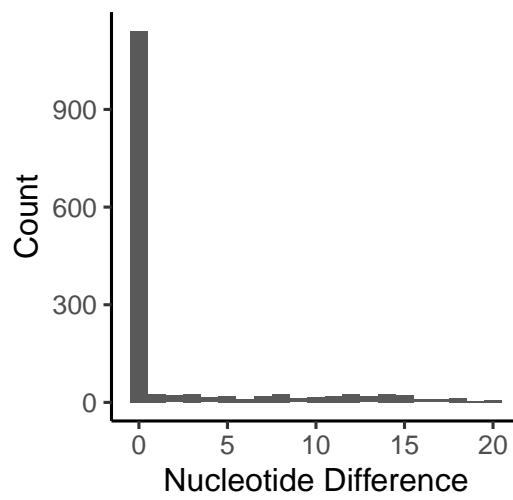
IGHV4-28*01_07

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



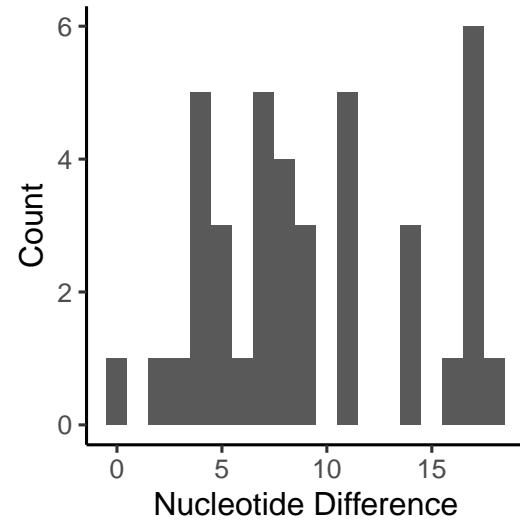
IGHV4-31*02

1635 sequences assigned
1142 (69.8%) exact matches, in which:
1108 unique CDR3
6 unique J



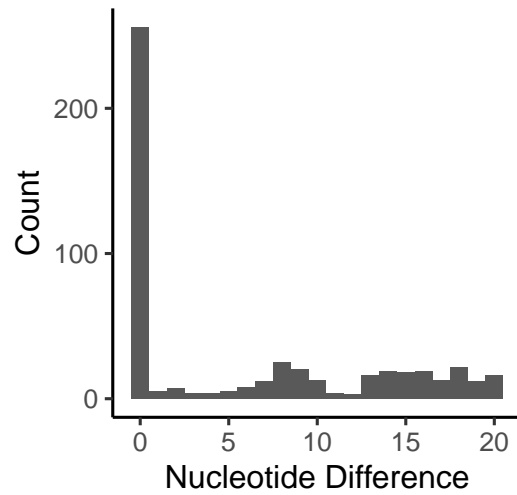
IGHV4-39*02

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



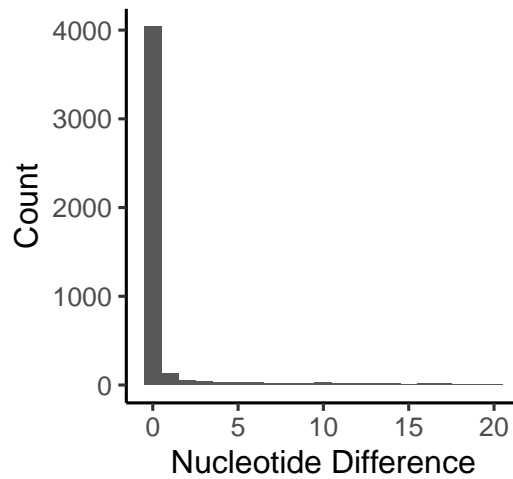
IGHV4-30-2*01

872 sequences assigned
256 (29.4%) exact matches, in which:
247 unique CDR3
6 unique J



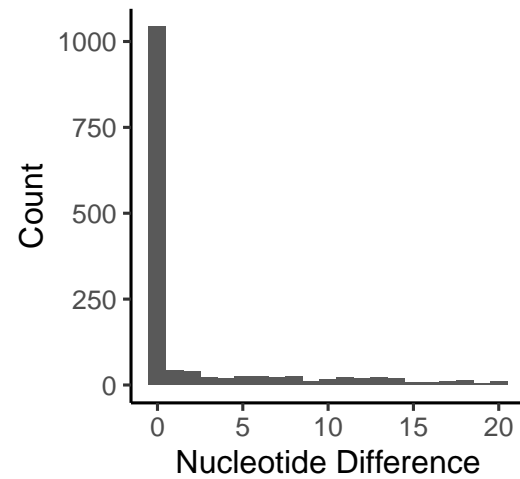
IGHV4-34*01_02

4646 sequences assigned
4038 (86.9%) exact matches, in which:
3881 unique CDR3
6 unique J



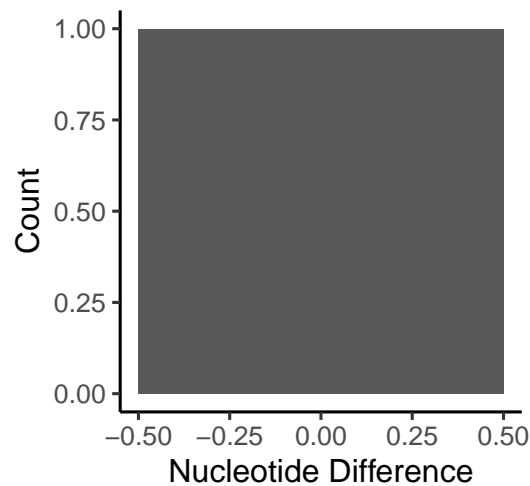
IGHV4-59*08

1477 sequences assigned
1043 (70.6%) exact matches, in which:
997 unique CDR3
6 unique J



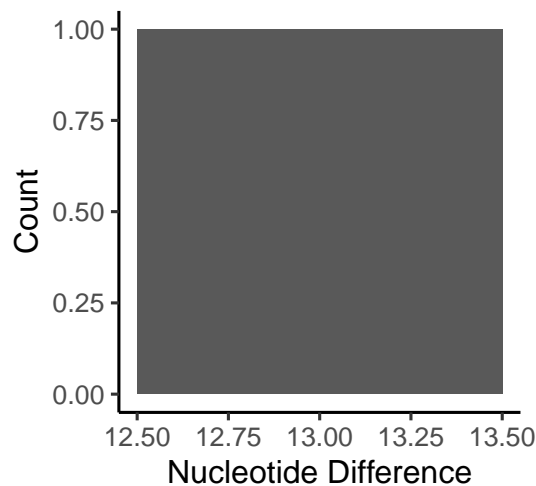
IGHV4-30-4*01

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



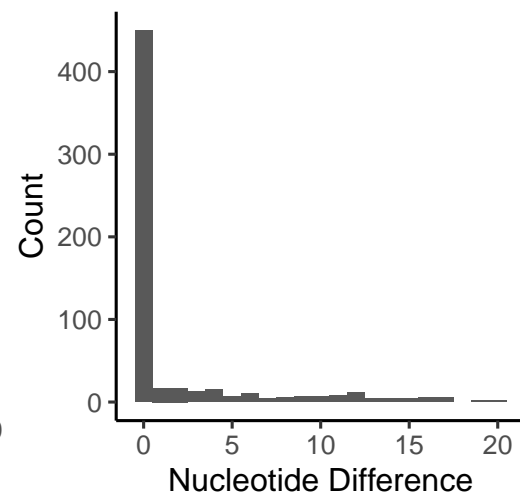
IGHV4-38-2*02

1 sequences assigned
No exact matches.



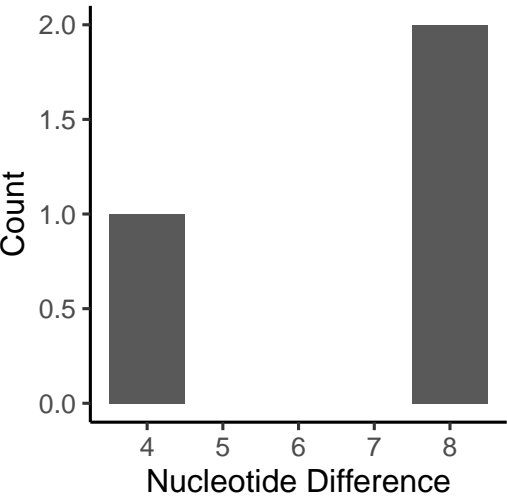
IGHV4-61*01

632 sequences assigned
450 (71.2%) exact matches, in which:
431 unique CDR3
6 unique J



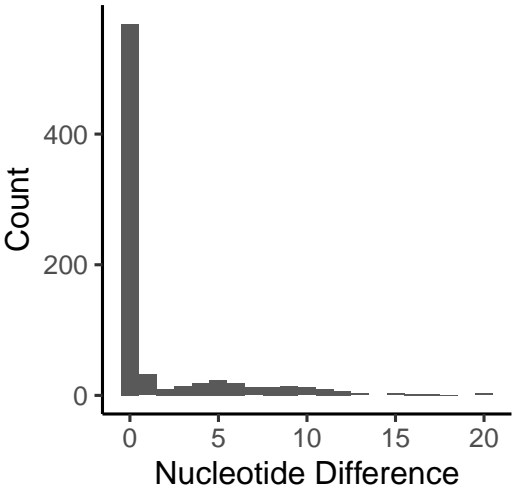
IGHV4/OR15-8*01

3 sequences assigned
No exact matches.



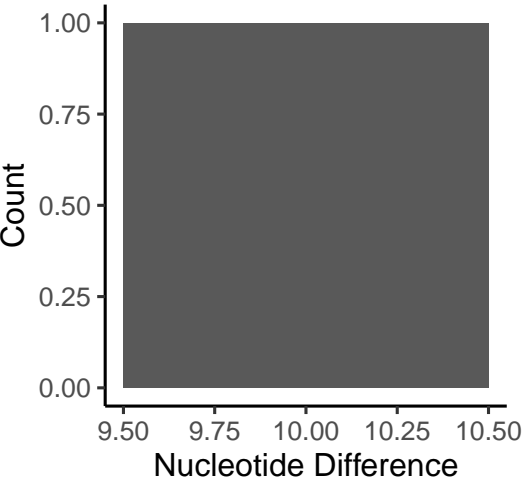
IGHV6-1*01_02

836 sequences assigned
569 (68.1%) exact matches, in which:
556 unique CDR3
6 unique J



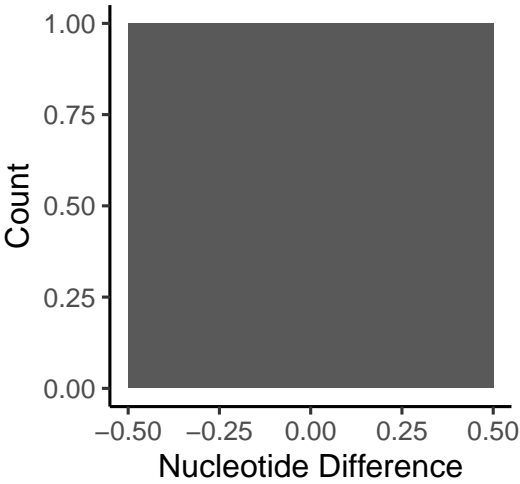
IGHV5-51*07

1 sequences assigned
No exact matches.



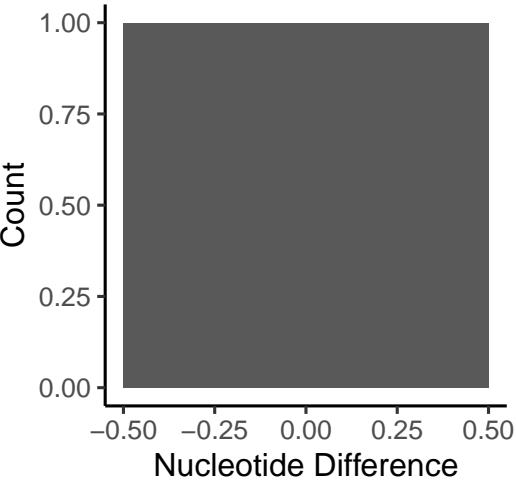
IGHV7-4-1*01

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



IGHV5-51*01_03

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





[illegible]