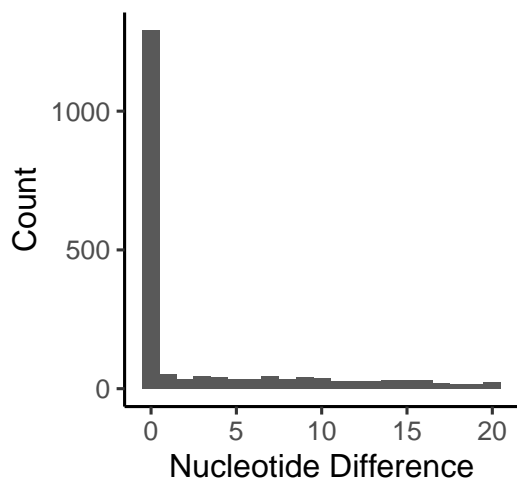


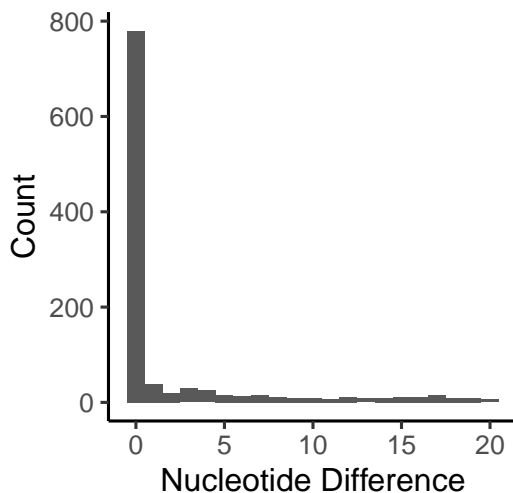
IGHV1-2*02

2141 sequences assigned
1291 (60.3%) exact matches, in which:
1276 unique CDR3
6 unique J



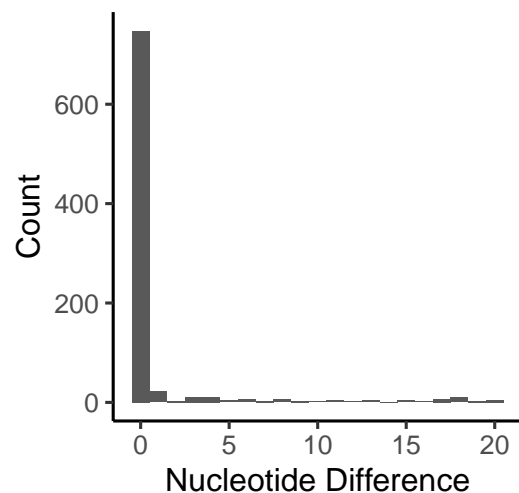
IGHV1-8*01

1133 sequences assigned
780 (68.8%) exact matches, in which:
771 unique CDR3
6 unique J



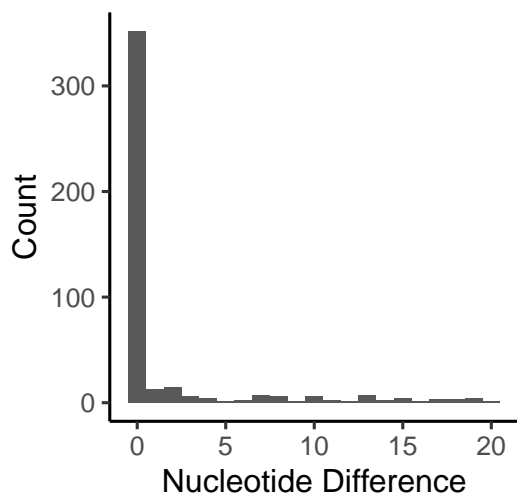
IGHV1-24*01

897 sequences assigned
748 (83.4%) exact matches, in which:
743 unique CDR3
6 unique J



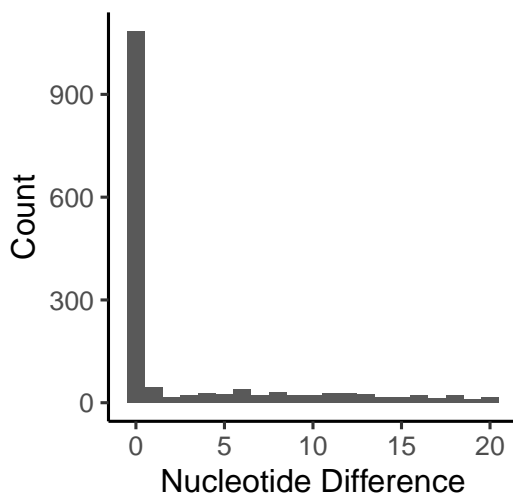
IGHV1-2*04

473 sequences assigned
352 (74.4%) exact matches, in which:
350 unique CDR3
6 unique J



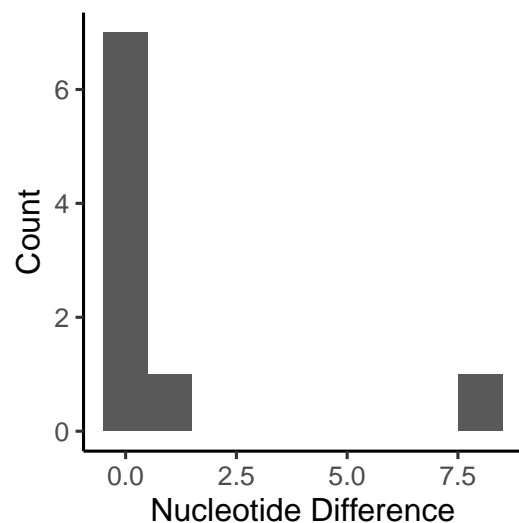
IGHV1-18*01

1717 sequences assigned
1085 (63.2%) exact matches, in which:
1069 unique CDR3
6 unique J



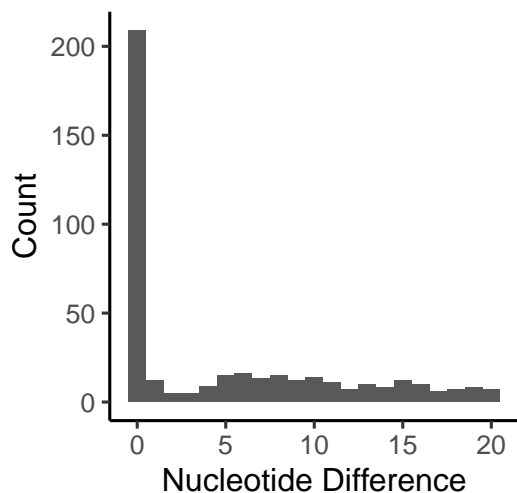
IGHV1-45*02

11 sequences assigned
7 (63.6%) exact matches, in which:
7 unique CDR3
3 unique J



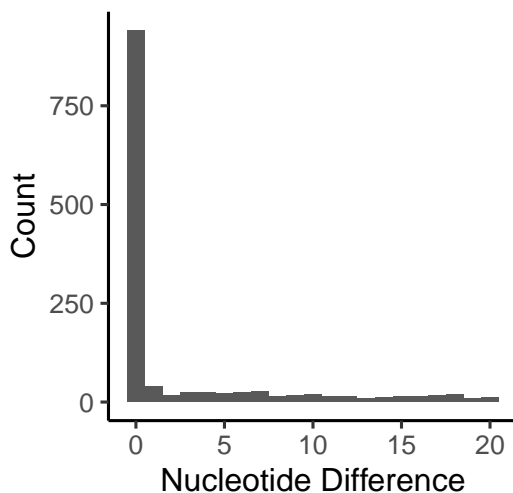
IGHV1-3*01_05

475 sequences assigned
209 (44%) exact matches, in which:
208 unique CDR3
6 unique J



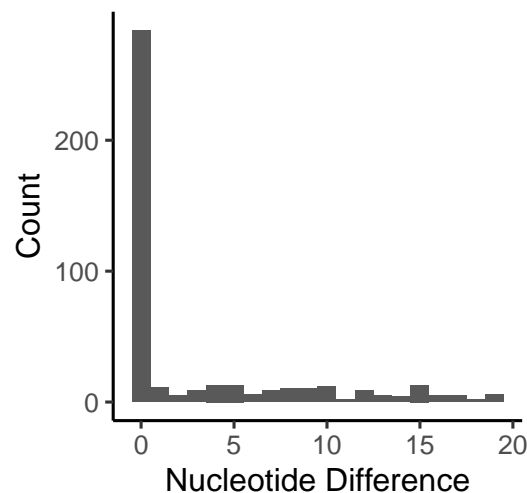
IGHV1-18*04

1406 sequences assigned
941 (66.9%) exact matches, in which:
929 unique CDR3
6 unique J



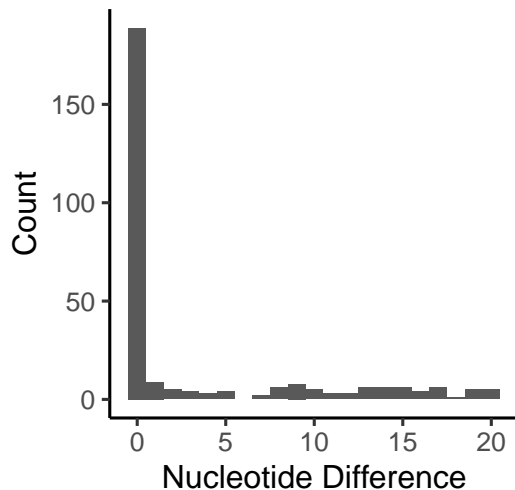
IGHV1-46*01

492 sequences assigned
284 (57.7%) exact matches, in which:
282 unique CDR3
6 unique J



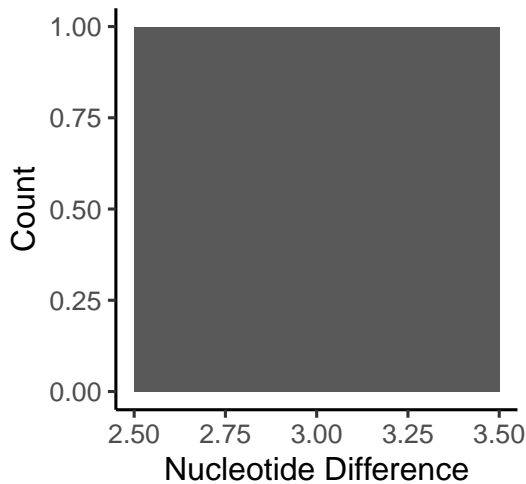
IGHV1–46*03

324 sequences assigned
189 (58.3%) exact matches, in which:
189 unique CDR3
6 unique J



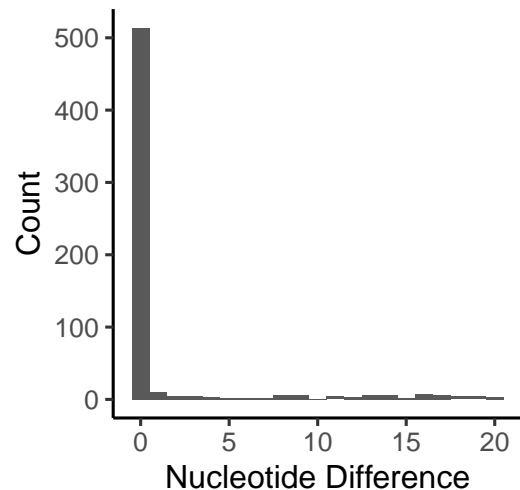
IGHV1–68*02_03

2 sequences assigned
No exact matches.



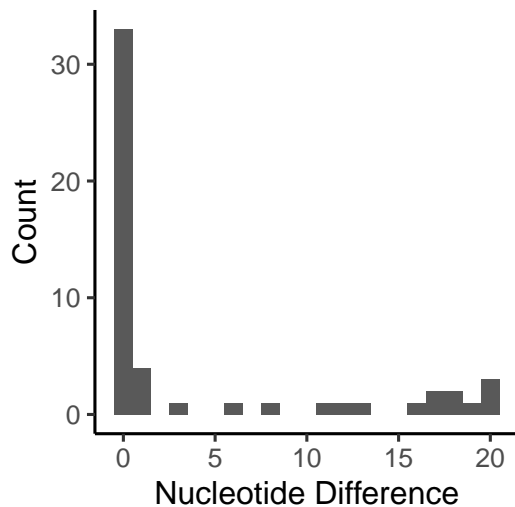
IGHV1–69*06_14

673 sequences assigned
514 (76.4%) exact matches, in which:
512 unique CDR3
6 unique J



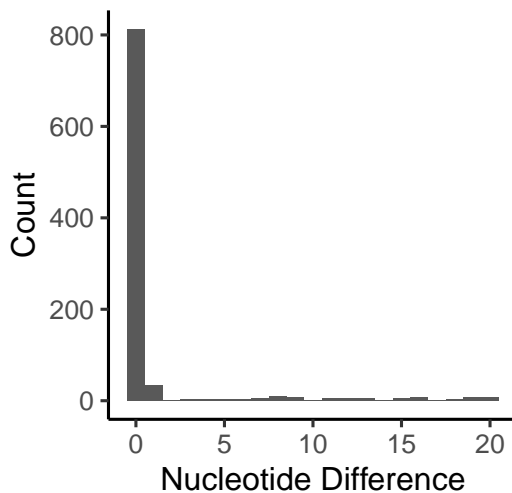
IGHV1–58*02

79 sequences assigned
33 (41.8%) exact matches, in which:
33 unique CDR3
5 unique J



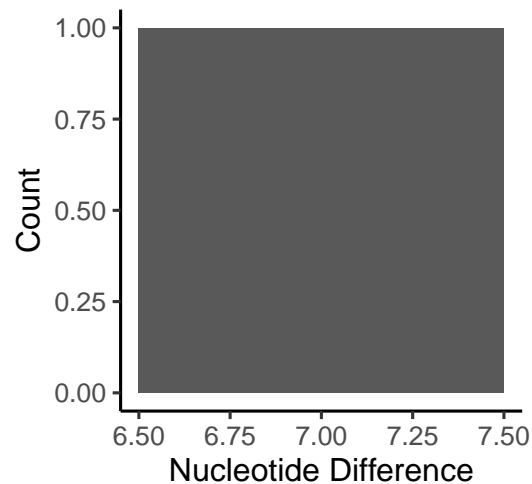
IGHV1–69*01_12_13

1043 sequences assigned
813 (77.9%) exact matches, in which:
812 unique CDR3
6 unique J



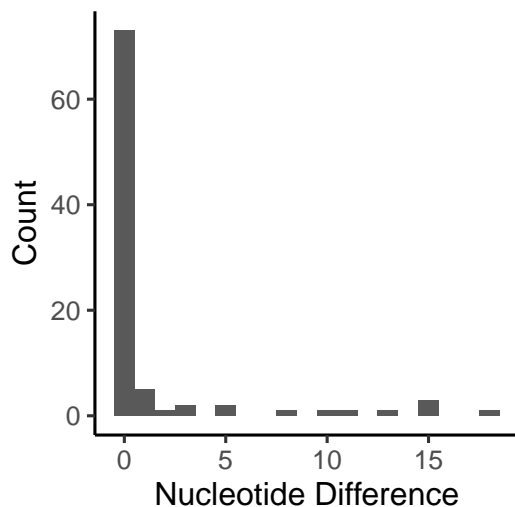
IGHV1–NL1*01

1 sequences assigned
No exact matches.



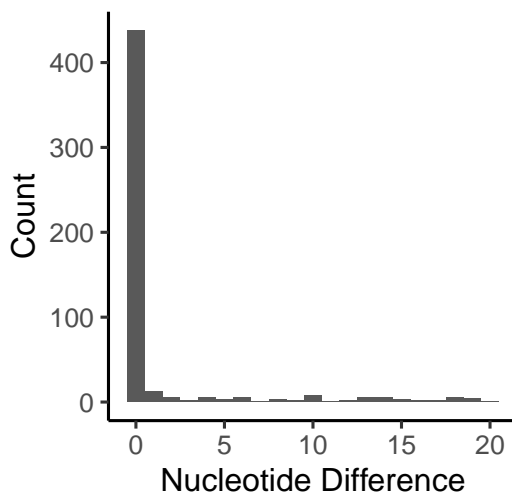
IGHV1–58*01_03

97 sequences assigned
73 (75.3%) exact matches, in which:
73 unique CDR3
6 unique J



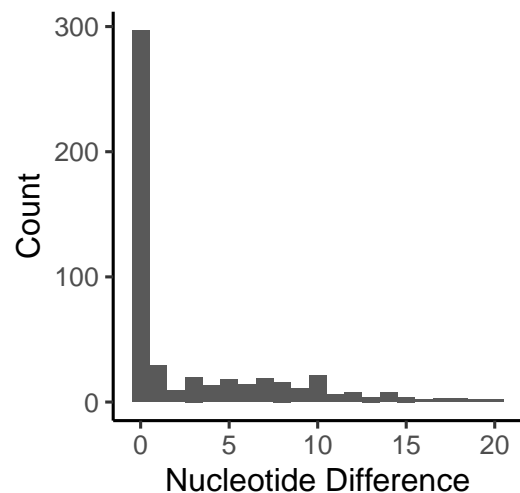
IGHV1–69*04_09

572 sequences assigned
438 (76.6%) exact matches, in which:
436 unique CDR3
6 unique J



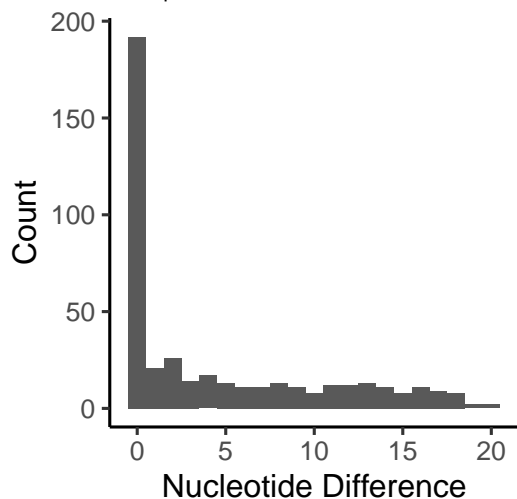
IGHV2–5*01

552 sequences assigned
297 (53.8%) exact matches, in which:
295 unique CDR3
6 unique J



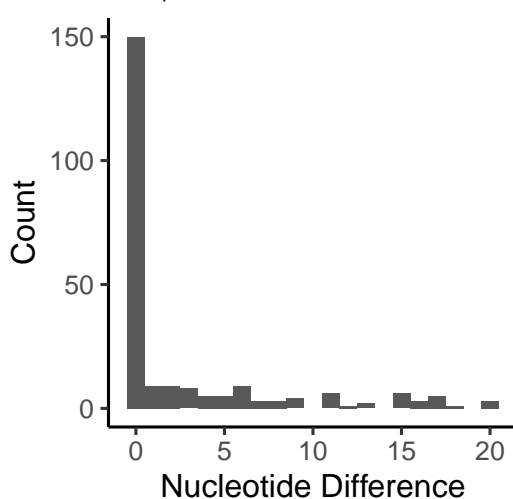
IGHV2-5*02

490 sequences assigned
192 (39.2%) exact matches, in which:
192 unique CDR3
6 unique J



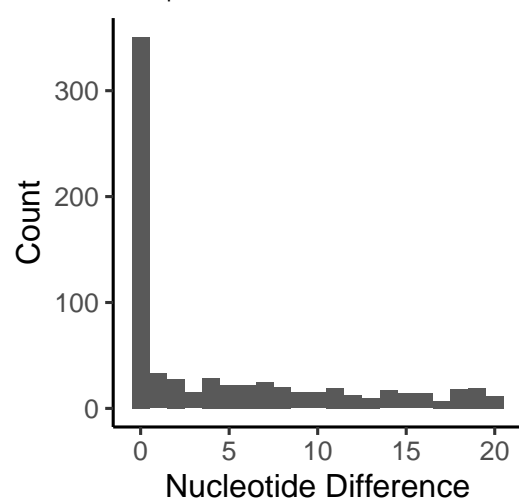
IGHV2-70*11_15

239 sequences assigned
150 (62.8%) exact matches, in which:
147 unique CDR3
5 unique J



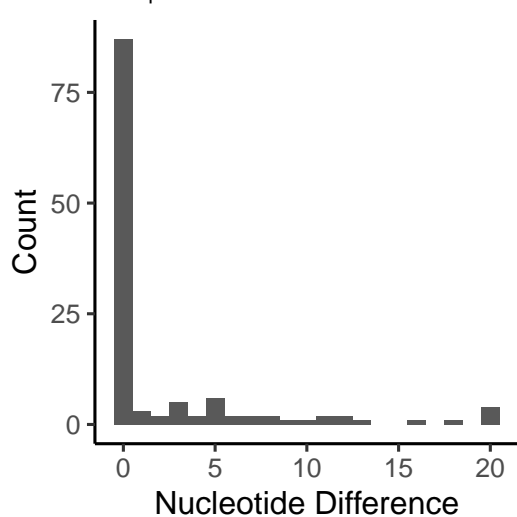
IGHV3-9*01

848 sequences assigned
351 (41.4%) exact matches, in which:
345 unique CDR3
6 unique J



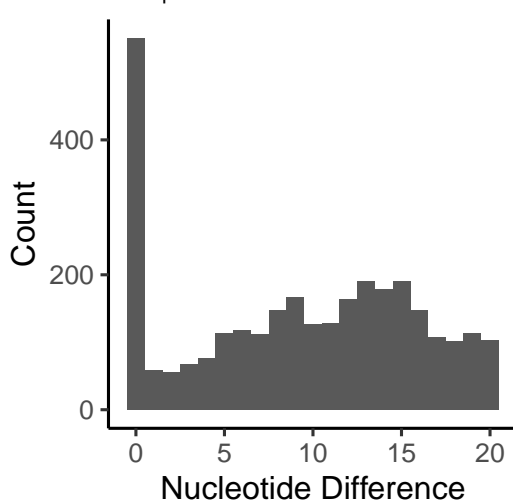
IGHV2-26*01

145 sequences assigned
87 (60%) exact matches, in which:
87 unique CDR3
6 unique J



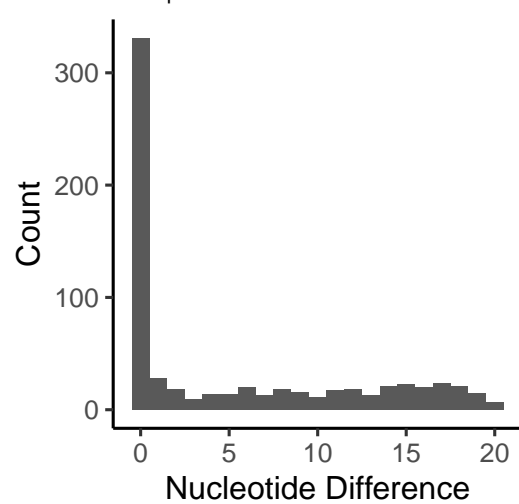
IGHV3-7*01

3498 sequences assigned
551 (15.8%) exact matches, in which:
530 unique CDR3
6 unique J



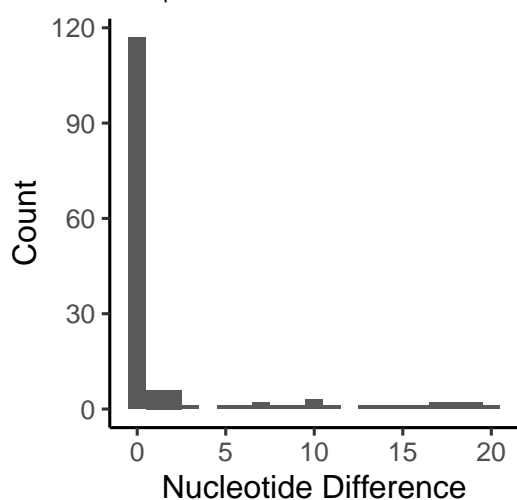
IGHV3-11*01

777 sequences assigned
331 (42.6%) exact matches, in which:
327 unique CDR3
6 unique J



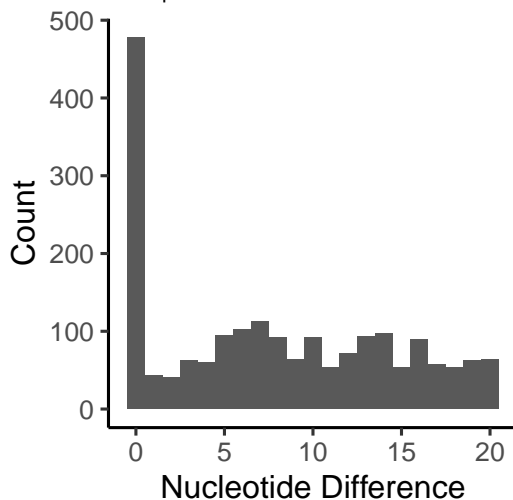
IGHV2-70*01

154 sequences assigned
117 (76%) exact matches, in which:
116 unique CDR3
6 unique J



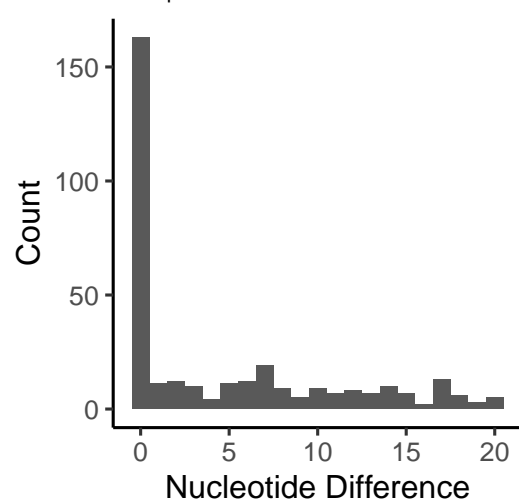
IGHV3-7*03

2172 sequences assigned
478 (22%) exact matches, in which:
450 unique CDR3
6 unique J



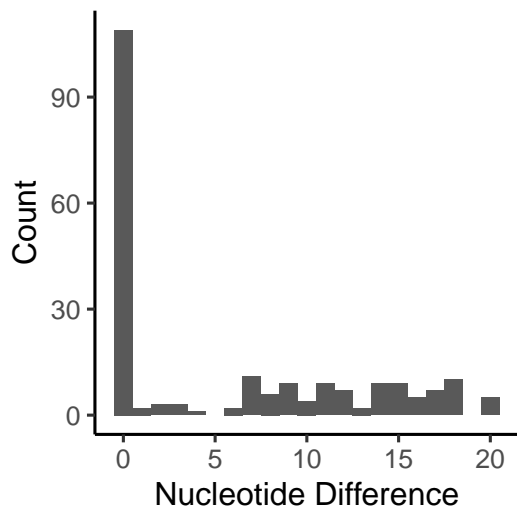
IGHV3-11*06

393 sequences assigned
163 (41.5%) exact matches, in which:
158 unique CDR3
6 unique J



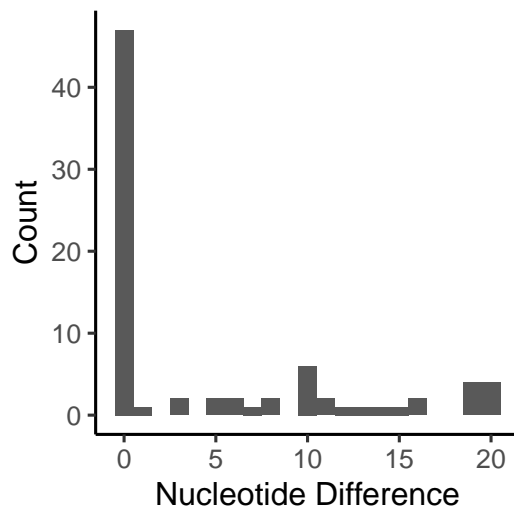
IGHV3-13*01

237 sequences assigned
109 (46%) exact matches, in which:
106 unique CDR3
5 unique J



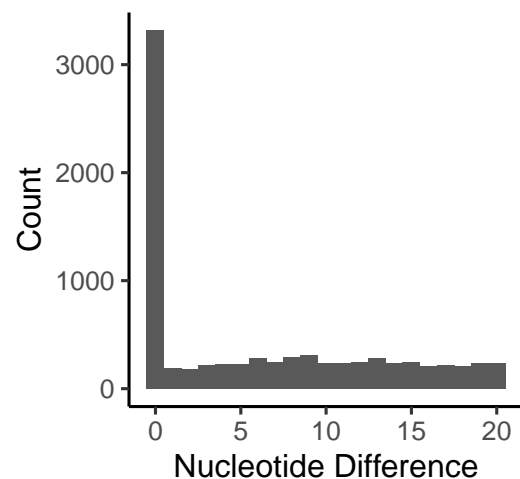
IGHV3-20*01_02

87 sequences assigned
47 (54%) exact matches, in which:
45 unique CDR3
5 unique J



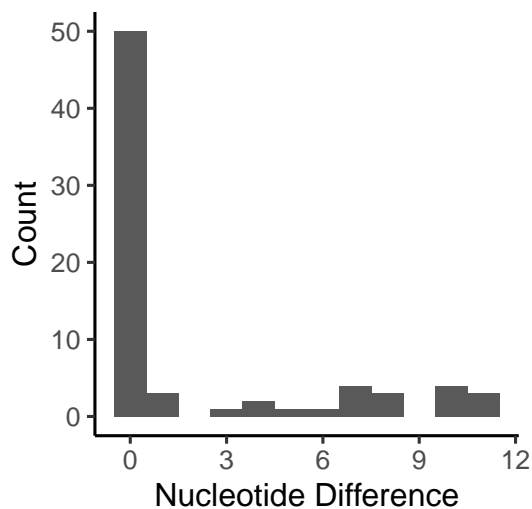
IGHV3-23*01_04

10001 sequences assigned
3317 (33.2%) exact matches, in which:
3195 unique CDR3
6 unique J



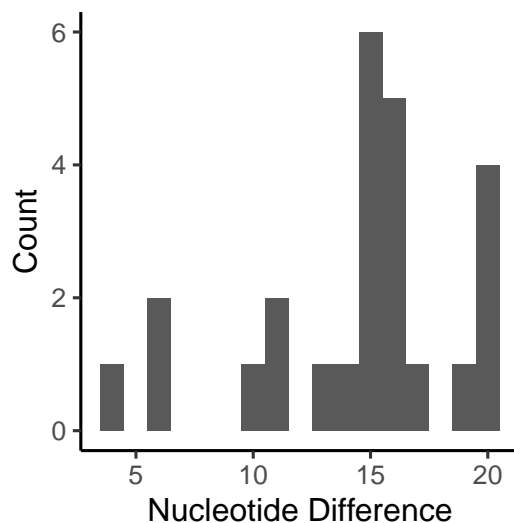
IGHV3-13*05

74 sequences assigned
50 (67.6%) exact matches, in which:
48 unique CDR3
4 unique J



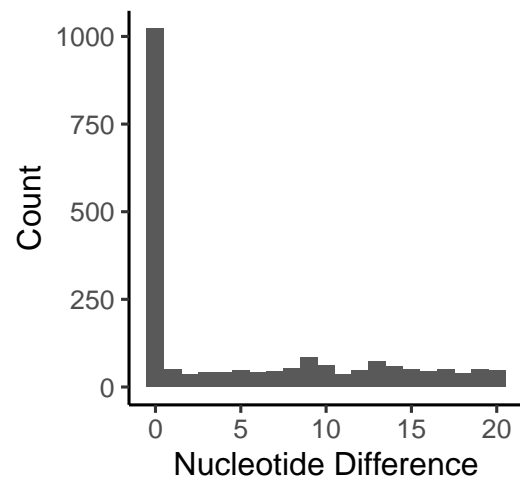
IGHV3-20*03_04

54 sequences assigned
No exact matches.



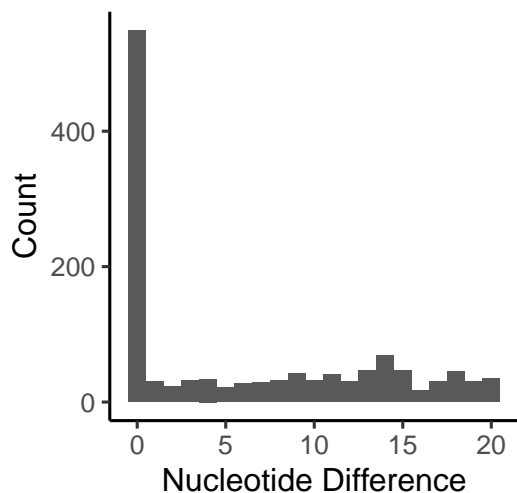
IGHV3-30-3*01

2402 sequences assigned
1022 (42.5%) exact matches, in which:
1000 unique CDR3
6 unique J



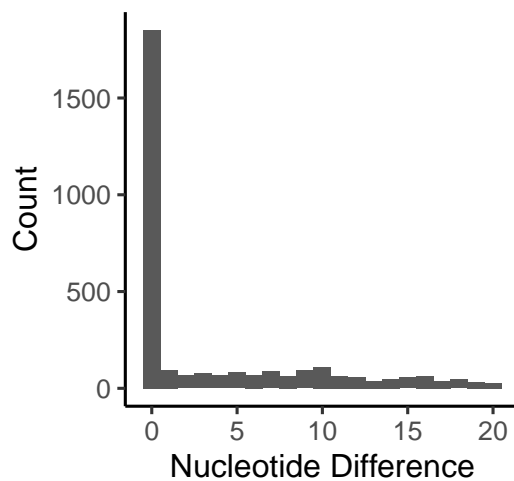
IGHV3-15*01_02

1463 sequences assigned
549 (37.5%) exact matches, in which:
533 unique CDR3
6 unique J



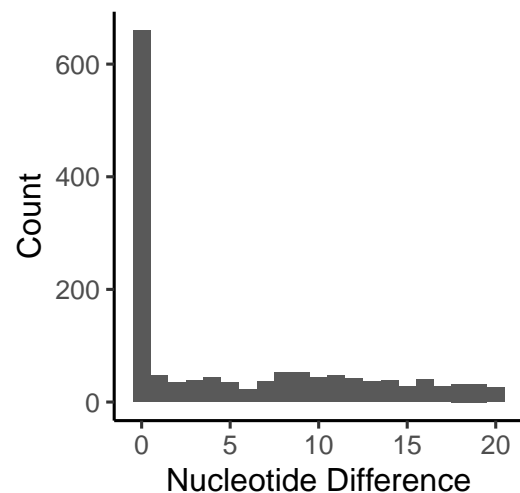
IGHV3-21*01_02

3537 sequences assigned
1851 (52.3%) exact matches, in which:
1764 unique CDR3
6 unique J



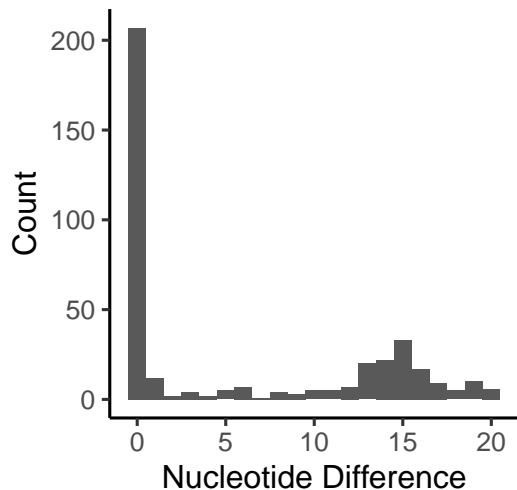
IGHV3-33*01

1718 sequences assigned
660 (38.4%) exact matches, in which:
650 unique CDR3
6 unique J



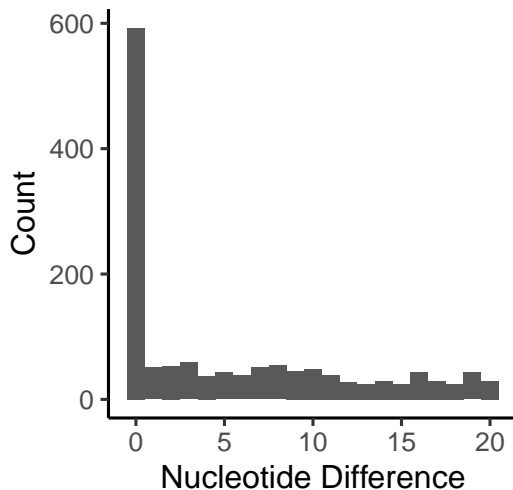
IGHV3-43*01

455 sequences assigned
207 (45.5%) exact matches, in which:
201 unique CDR3
6 unique J



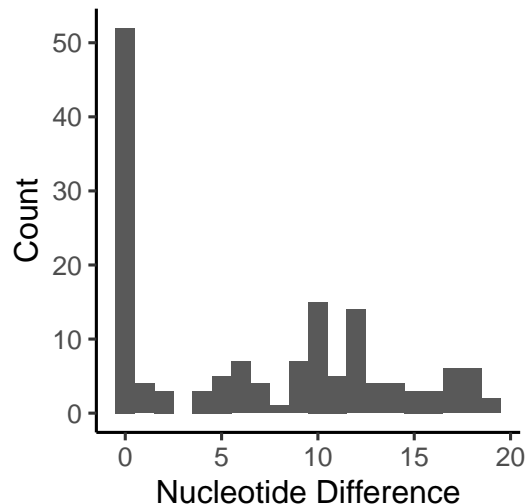
IGHV3-48*02

1572 sequences assigned
593 (37.7%) exact matches, in which:
551 unique CDR3
6 unique J



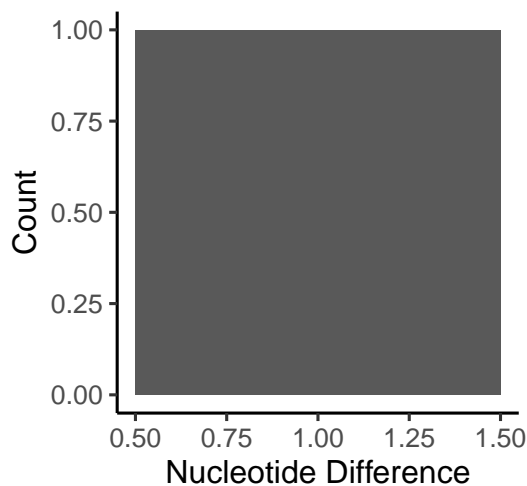
IGHV3-64*01

162 sequences assigned
52 (32.1%) exact matches, in which:
51 unique CDR3
6 unique J



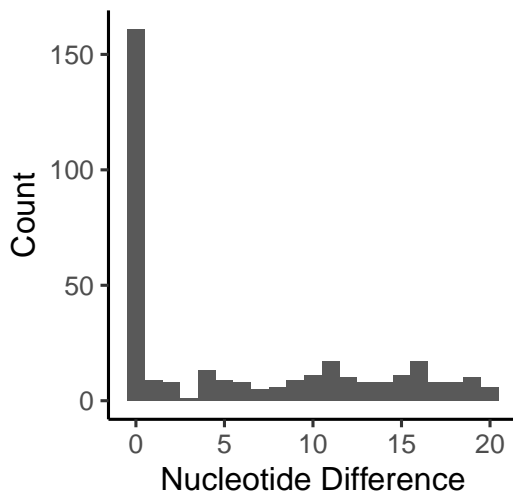
IGHV3-47*02

1 sequences assigned
No exact matches.



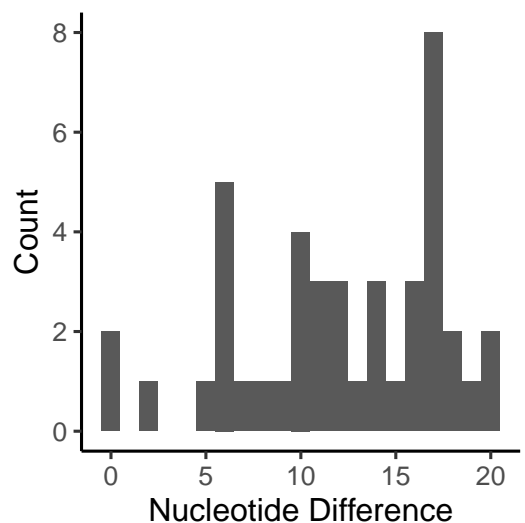
IGHV3-49*03_05

413 sequences assigned
161 (39%) exact matches, in which:
160 unique CDR3
6 unique J



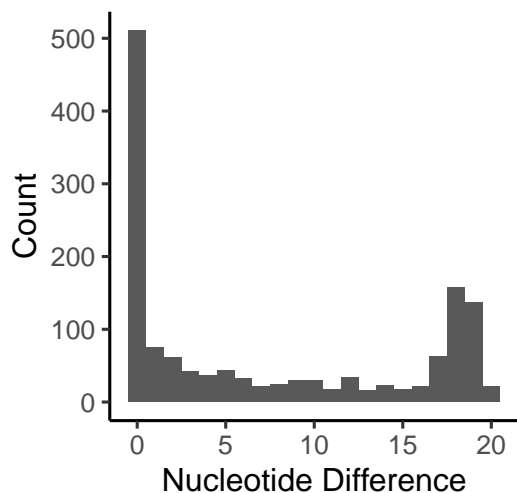
IGHV3-64*02_07

59 sequences assigned
2 (3.4%) exact matches, in which:
2 unique CDR3
2 unique J



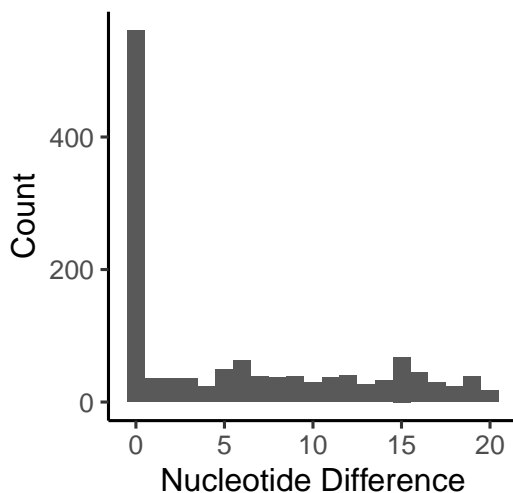
IGHV3-48*01

1561 sequences assigned
511 (32.7%) exact matches, in which:
459 unique CDR3
6 unique J



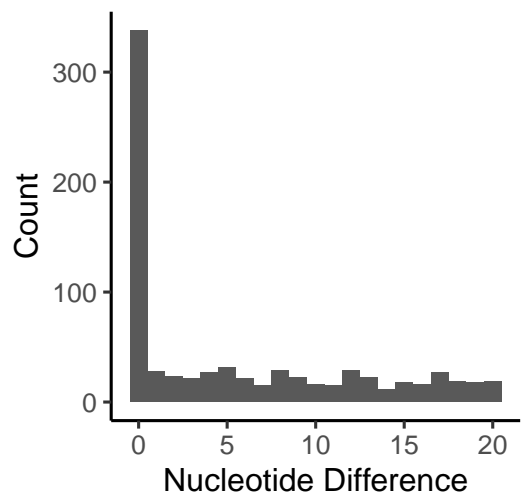
IGHV3-53*01_02

1492 sequences assigned
561 (37.6%) exact matches, in which:
547 unique CDR3
6 unique J



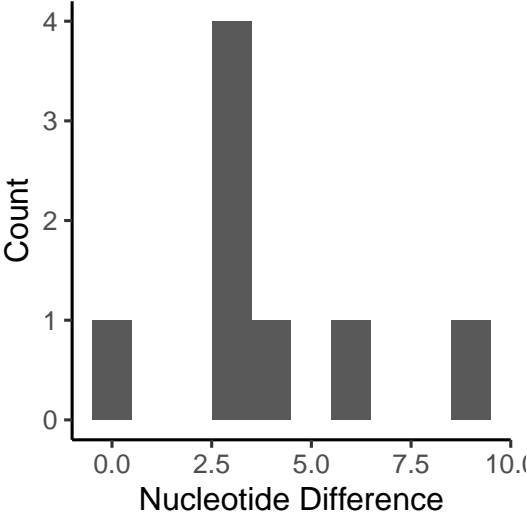
IGHV3-66*01

908 sequences assigned
338 (37.2%) exact matches, in which:
326 unique CDR3
6 unique J



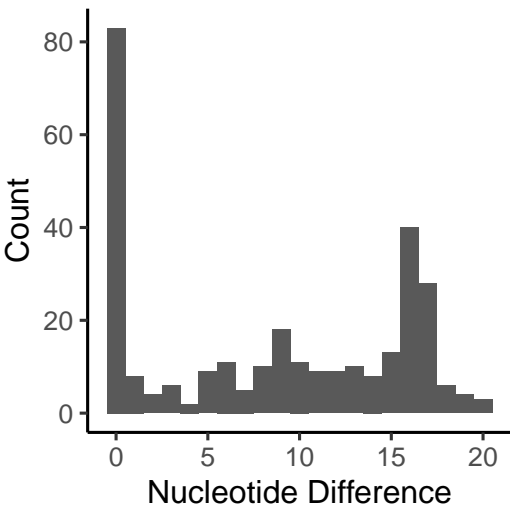
IGHV3-69-1*01

14 sequences assigned
1 (7.1%) exact matches, in which:
1 unique CDR3
1 unique J



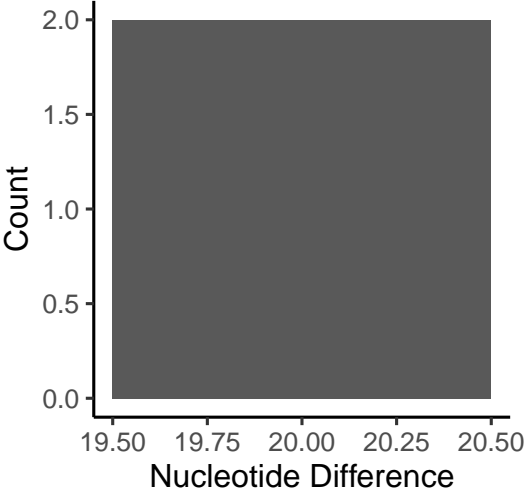
IGHV3-73*01_02

344 sequences assigned
83 (24.1%) exact matches, in which:
82 unique CDR3
6 unique J



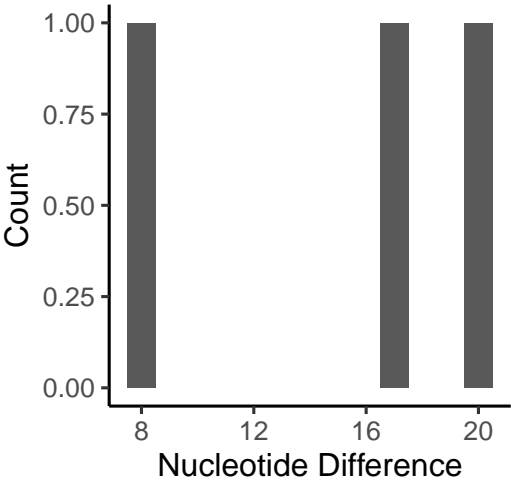
IGHV3-43D*04

3 sequences assigned
No exact matches.



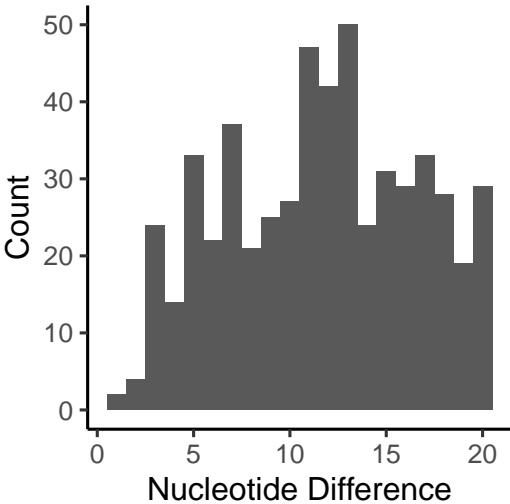
IGHV3-69-1*02

15 sequences assigned
No exact matches.



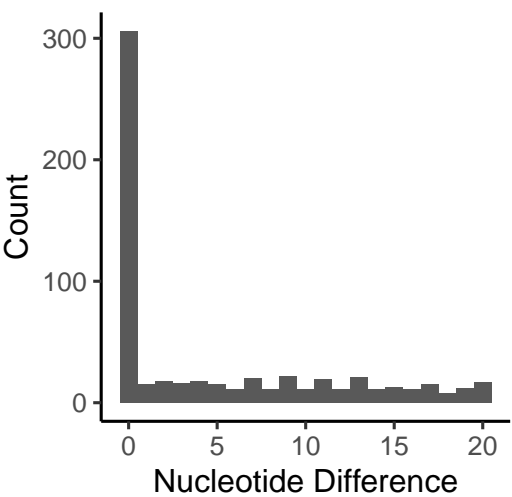
IGHV3-74*03

719 sequences assigned
No exact matches.



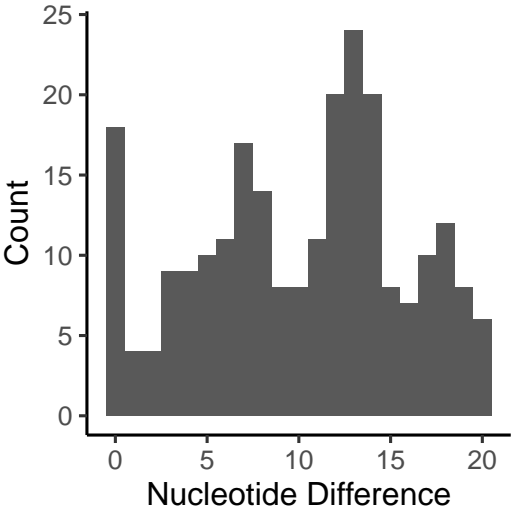
IGHV3-64D*06

713 sequences assigned
306 (42.9%) exact matches, in which:
300 unique CDR3
6 unique J



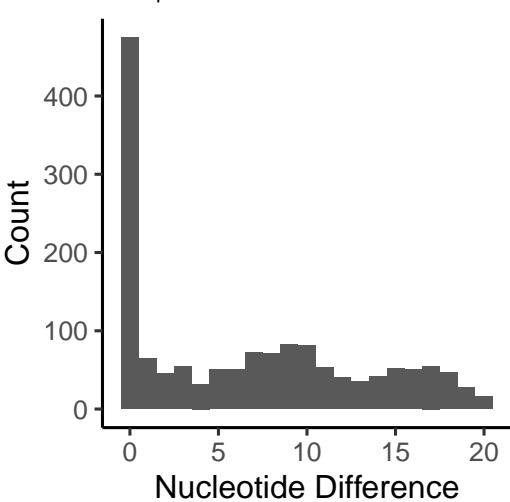
IGHV3-72*01

343 sequences assigned
18 (5.2%) exact matches, in which:
18 unique CDR3
5 unique J



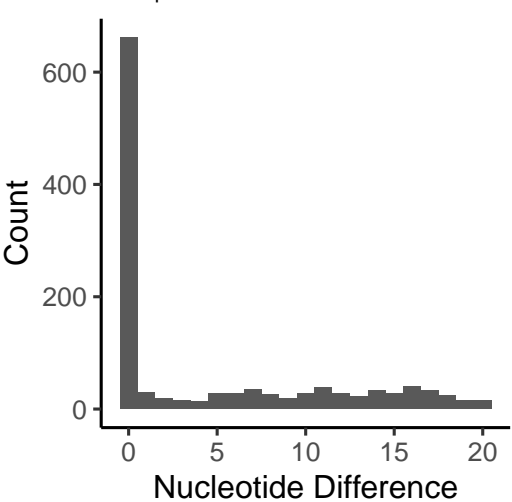
IGHV3-74*01_02

1657 sequences assigned
475 (28.7%) exact matches, in which:
449 unique CDR3
6 unique J



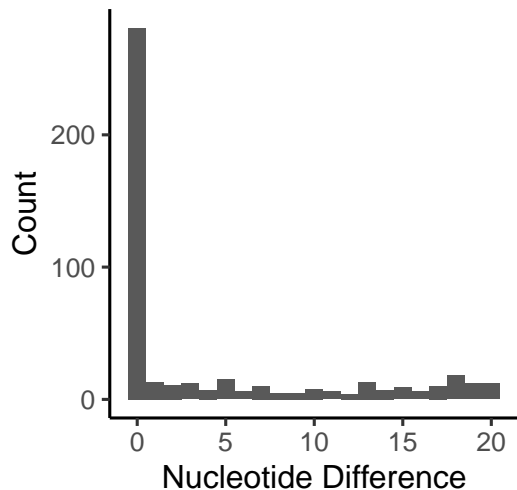
IGHV4-4*07

1351 sequences assigned
662 (49%) exact matches, in which:
634 unique CDR3
6 unique J



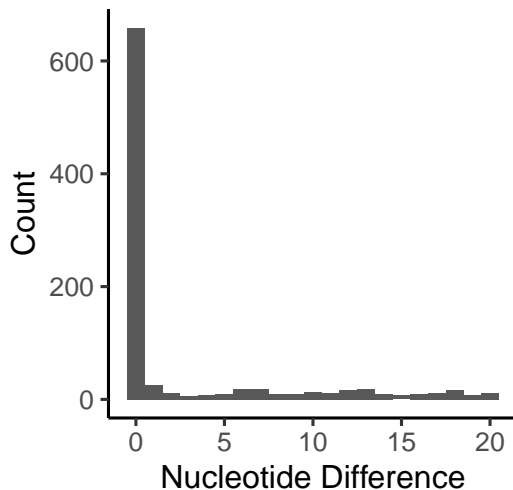
IGHV4-4*02_03

659 sequences assigned
281 (42.6%) exact matches, in which:
275 unique CDR3
6 unique J



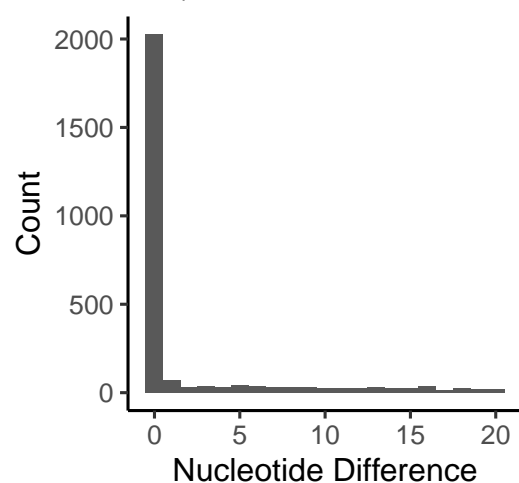
IGHV4-30-2*01

1035 sequences assigned
659 (63.7%) exact matches, in which:
644 unique CDR3
6 unique J



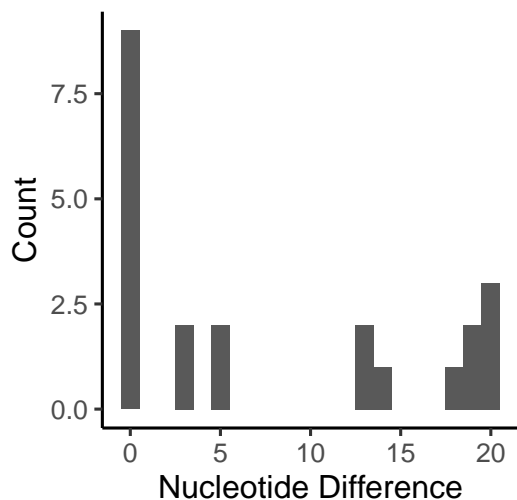
IGHV4-34*01_02

2858 sequences assigned
2026 (70.9%) exact matches, in which:
1980 unique CDR3
6 unique J



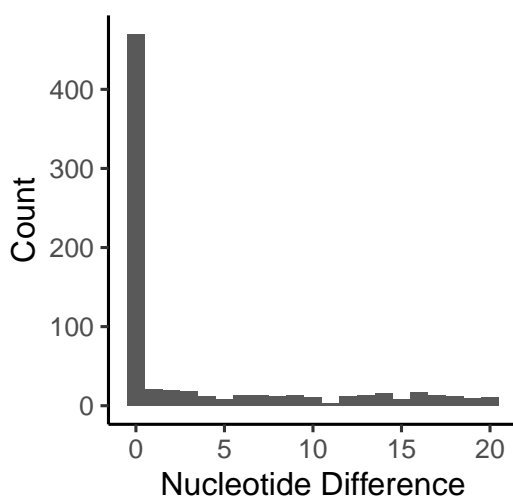
IGHV4-28*01_07

32 sequences assigned
9 (28.1%) exact matches, in which:
9 unique CDR3
3 unique J



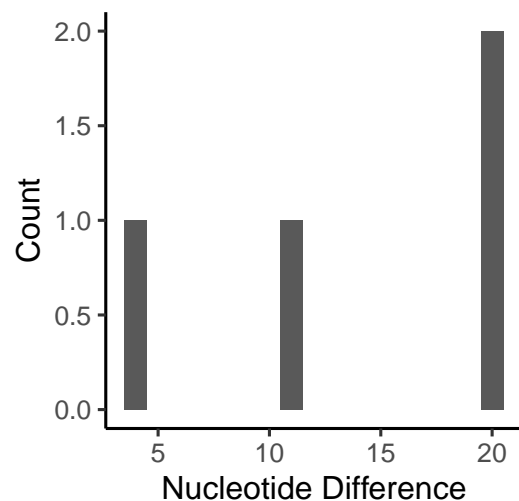
IGHV4-30-4*01

869 sequences assigned
470 (54.1%) exact matches, in which:
462 unique CDR3
6 unique J



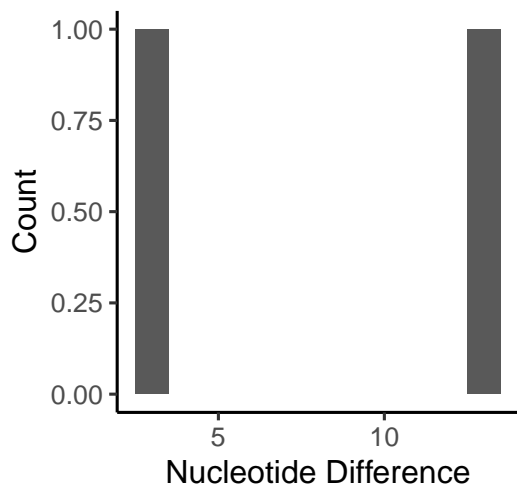
IGHV4-38-2*02

10 sequences assigned
No exact matches.



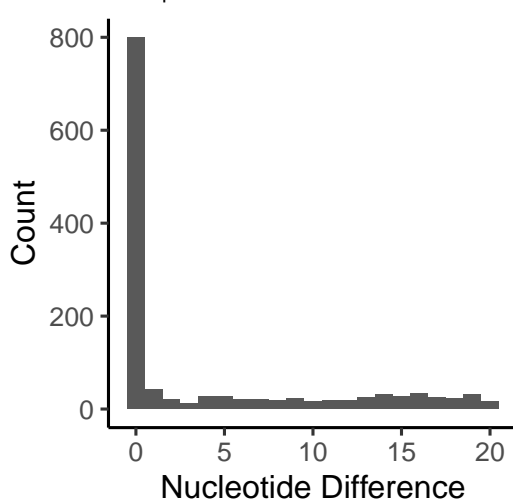
IGHV4-28*02_05

2 sequences assigned
No exact matches.



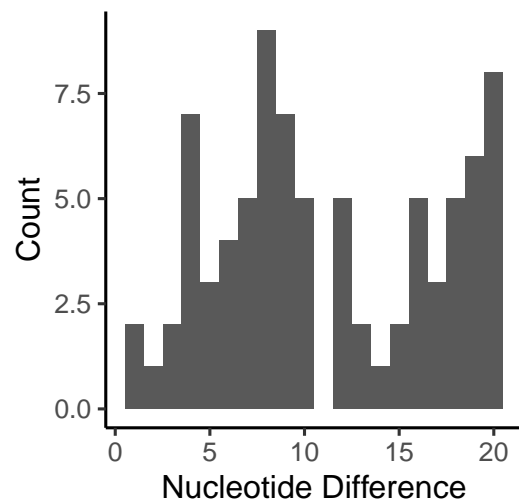
IGHV4-31*02

1510 sequences assigned
800 (53%) exact matches, in which:
788 unique CDR3
6 unique J



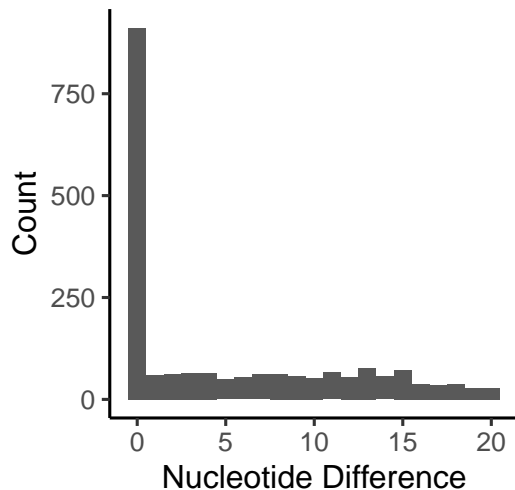
IGHV4-39*02

157 sequences assigned
No exact matches.



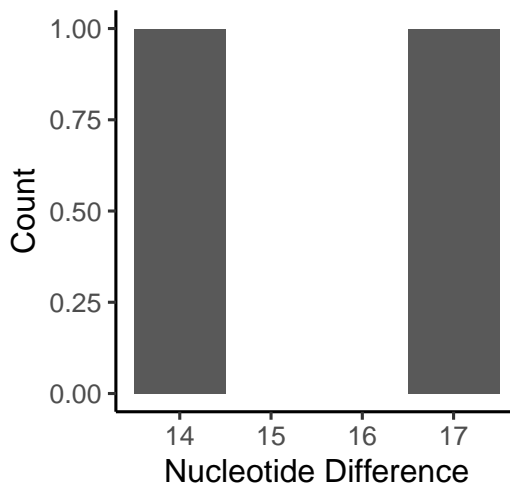
IGHV4–59*08

2339 sequences assigned
912 (39%) exact matches, in which:
890 unique CDR3
6 unique J



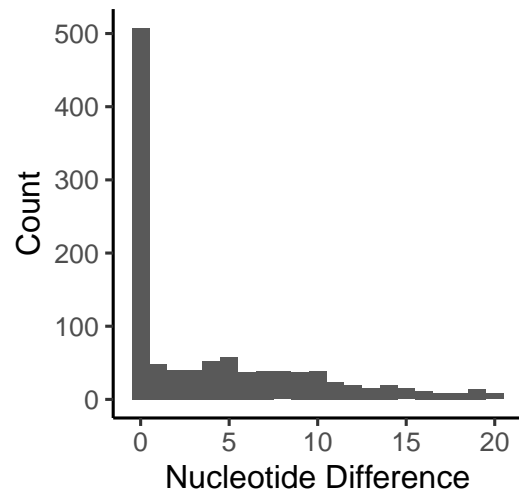
IGHV4/OR15–8*02

24 sequences assigned
No exact matches.



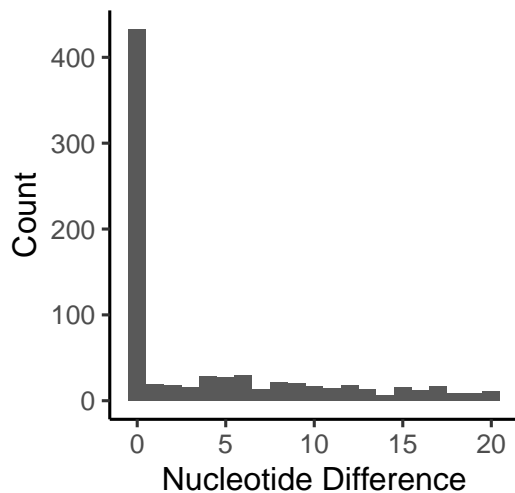
IGHV6–1*01_02

1123 sequences assigned
508 (45.2%) exact matches, in which:
493 unique CDR3
6 unique J



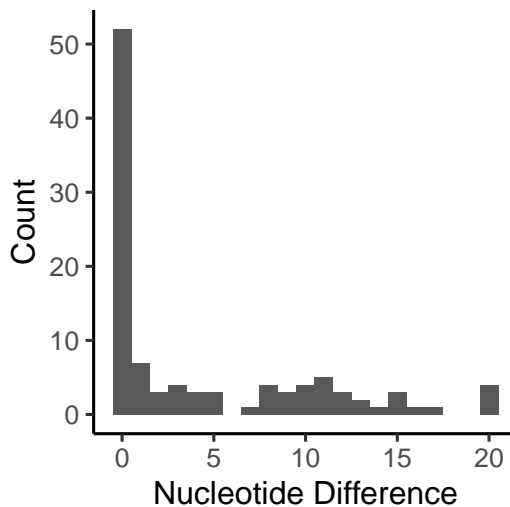
IGHV4–61*01

880 sequences assigned
433 (49.2%) exact matches, in which:
422 unique CDR3
6 unique J



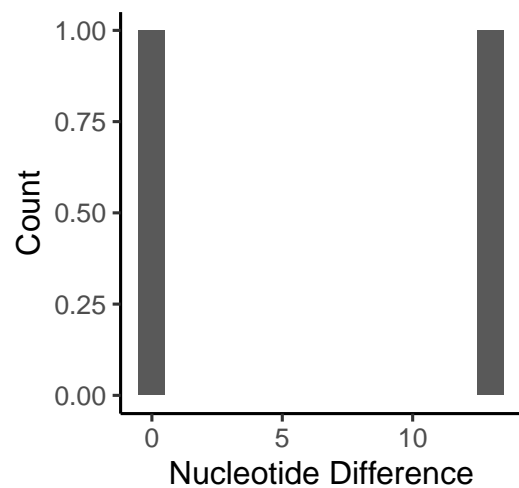
IGHV5–10–1*01_03

120 sequences assigned
52 (43.3%) exact matches, in which:
51 unique CDR3
5 unique J



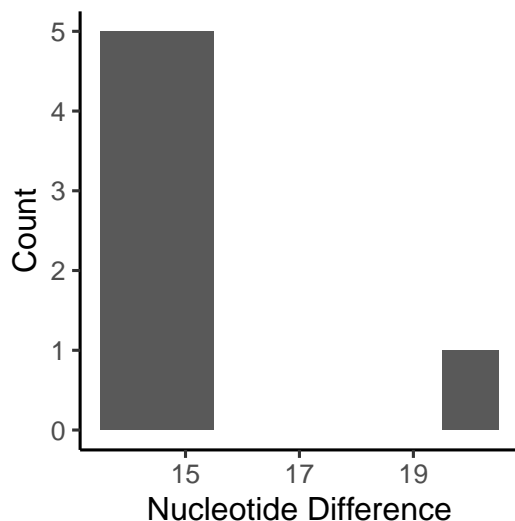
IGHV7–4–1*01

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



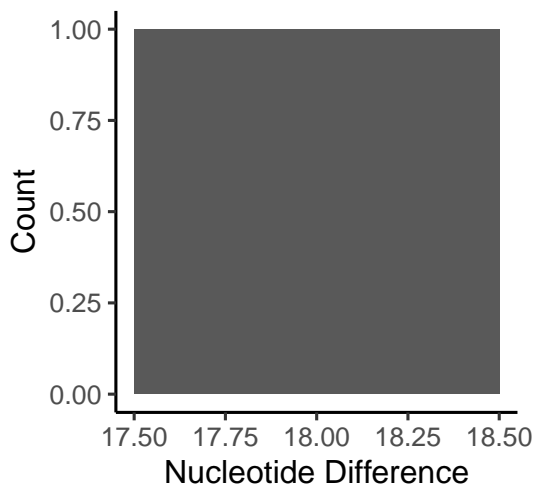
IGHV4/OR15–8*01

12 sequences assigned
No exact matches.



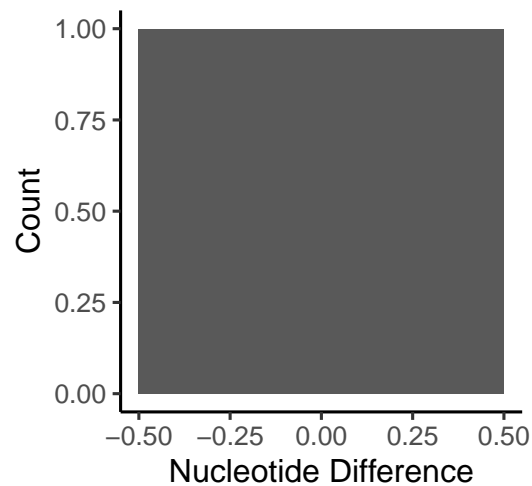
IGHV5–51*06

1 sequences assigned
No exact matches.



IGHV7–81*01

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





Warning – no inferred sequences found.