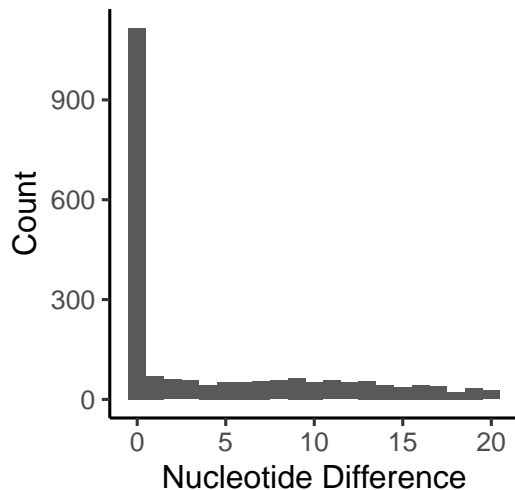


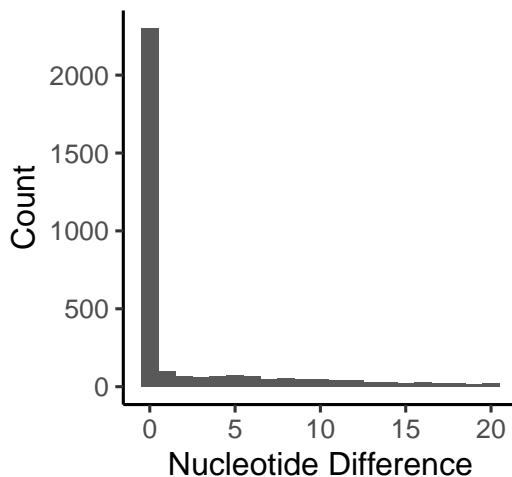
IGHV1-2*02

2254 sequences assigned
1117 (49.6%) exact matches, in which:
1115 unique CDR3
6 unique J



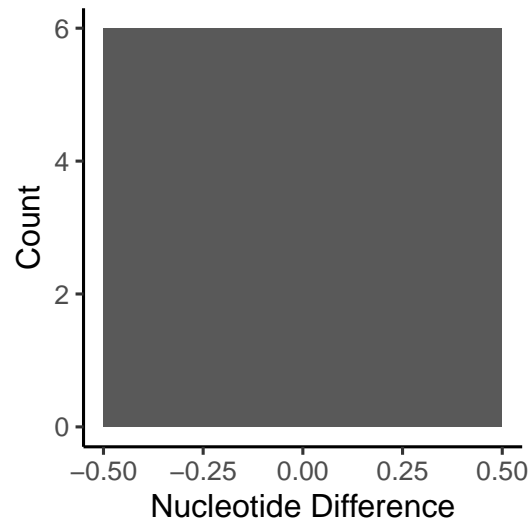
IGHV1-8*01

3317 sequences assigned
2300 (69.3%) exact matches, in which:
2293 unique CDR3
6 unique J



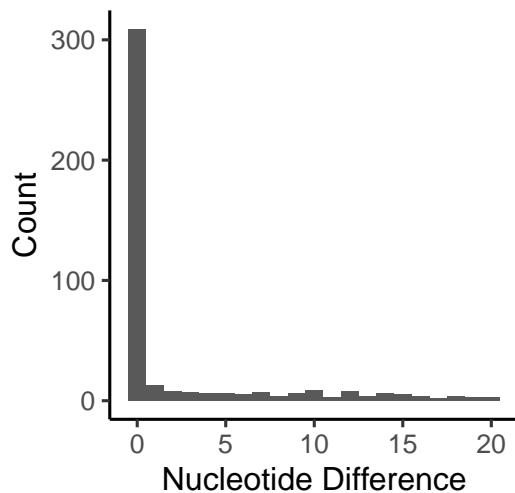
IGHV1-45*02

6 sequences assigned
6 (100%) exact matches, in which:
6 unique CDR3
3 unique J



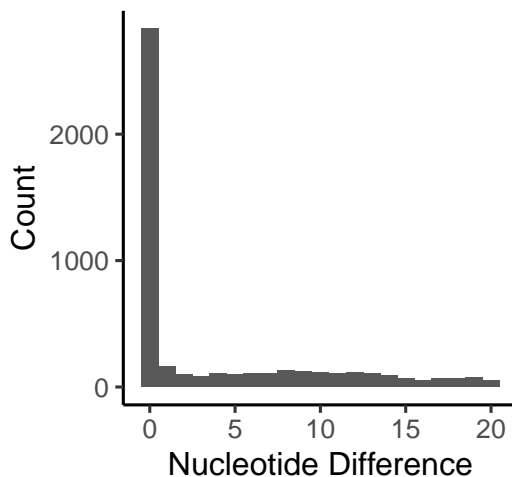
IGHV1-2*04

445 sequences assigned
309 (69.4%) exact matches, in which:
309 unique CDR3
6 unique J



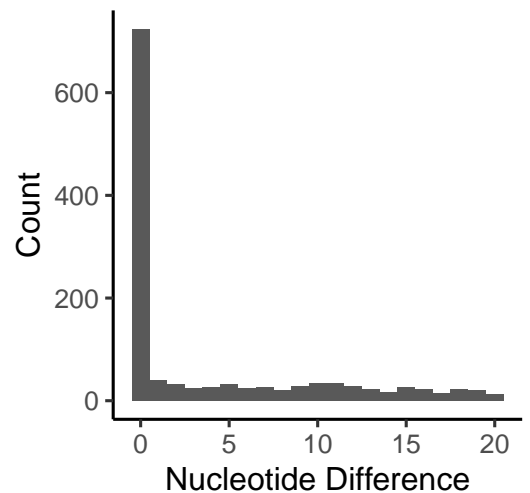
IGHV1-18*01

5200 sequences assigned
2834 (54.5%) exact matches, in which:
2816 unique CDR3
6 unique J



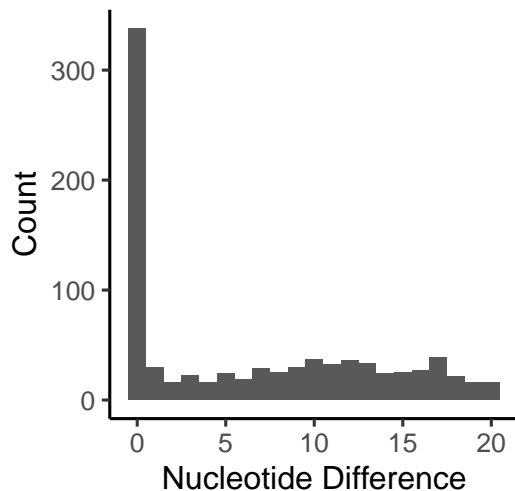
IGHV1-46*01

1342 sequences assigned
724 (53.9%) exact matches, in which:
722 unique CDR3
6 unique J



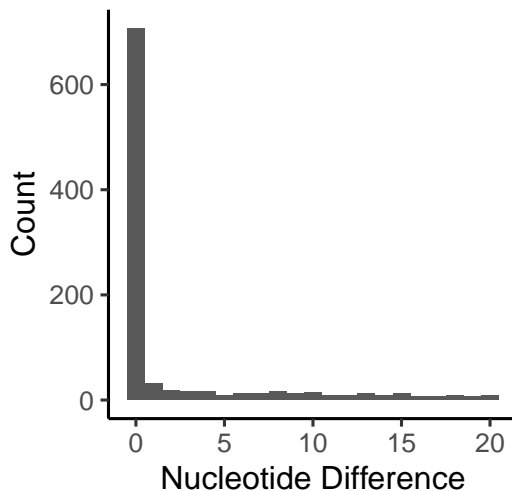
IGHV1-3*01_05

940 sequences assigned
338 (36%) exact matches, in which:
338 unique CDR3
6 unique J



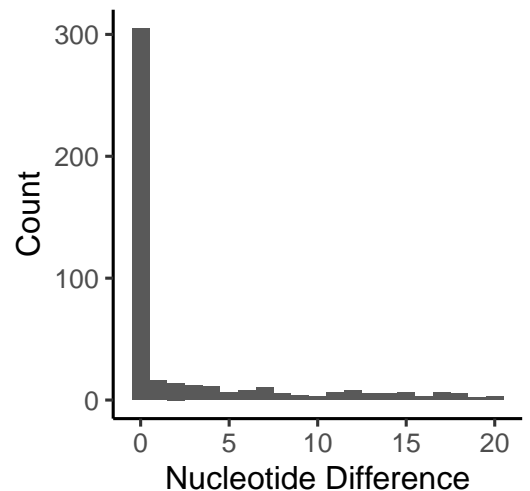
IGHV1-24*01

987 sequences assigned
707 (71.6%) exact matches, in which:
706 unique CDR3
6 unique J



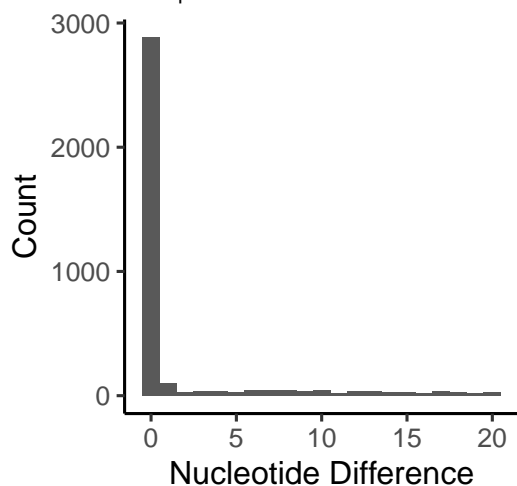
IGHV1-58*01_03

468 sequences assigned
305 (65.2%) exact matches, in which:
305 unique CDR3
6 unique J



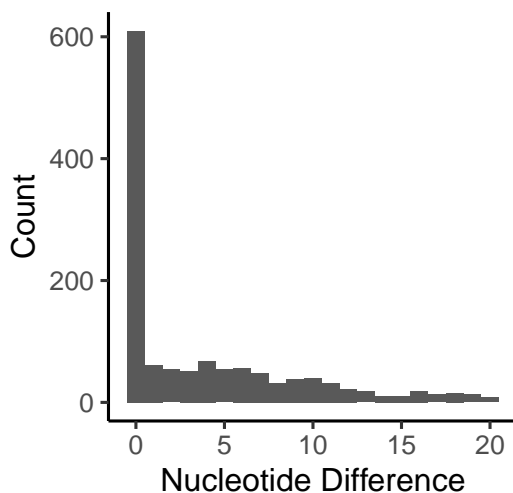
IGHV1-69*01_12_13

3827 sequences assigned
2884 (75.4%) exact matches, in which:
2879 unique CDR3
6 unique J



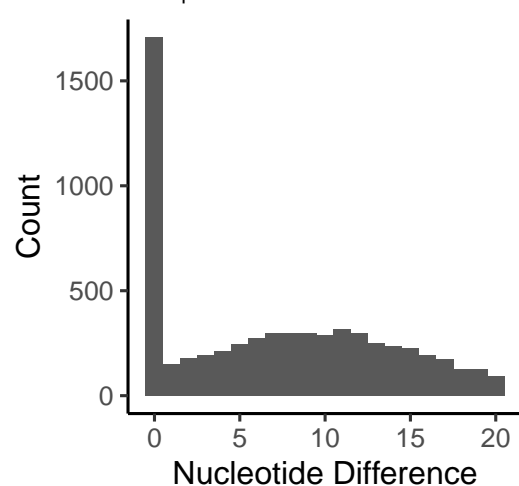
IGHV2-5*02

1323 sequences assigned
610 (46.1%) exact matches, in which:
607 unique CDR3
6 unique J



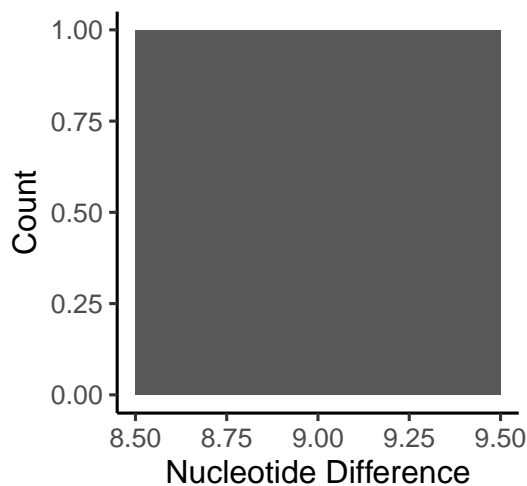
IGHV3-7*01

6647 sequences assigned
1707 (25.7%) exact matches, in which:
1622 unique CDR3
6 unique J



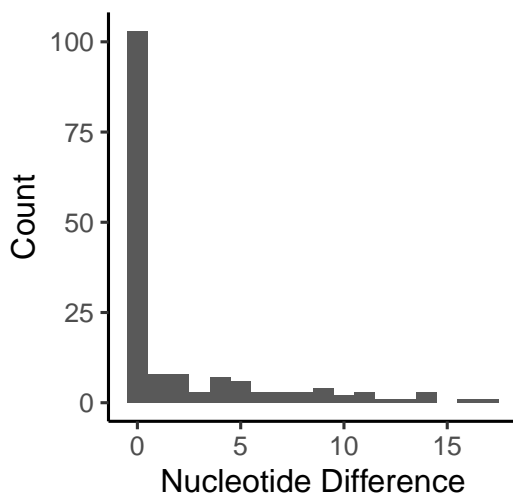
IGHV1-NL1*01

1 sequences assigned
No exact matches.



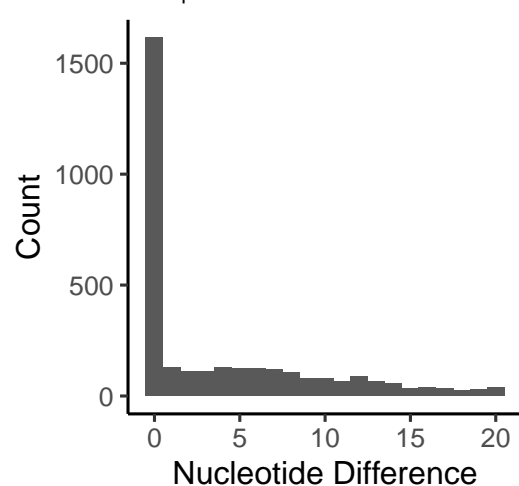
IGHV2-26*01

162 sequences assigned
103 (63.6%) exact matches, in which:
103 unique CDR3
5 unique J



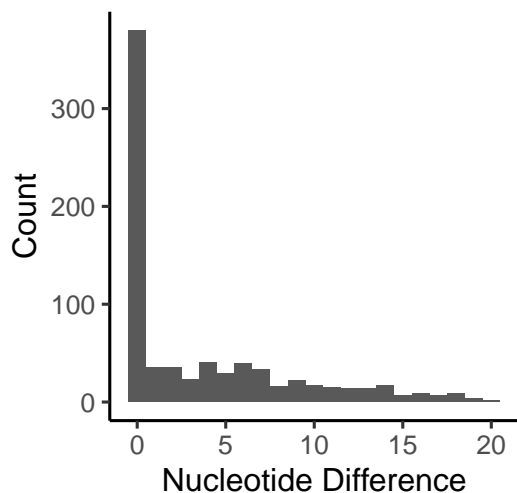
IGHV3-9*01

3391 sequences assigned
1615 (47.6%) exact matches, in which:
1568 unique CDR3
6 unique J



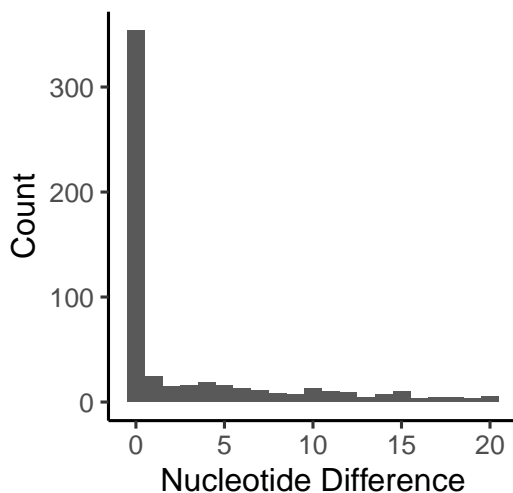
IGHV2-5*01

786 sequences assigned
380 (48.3%) exact matches, in which:
379 unique CDR3
6 unique J



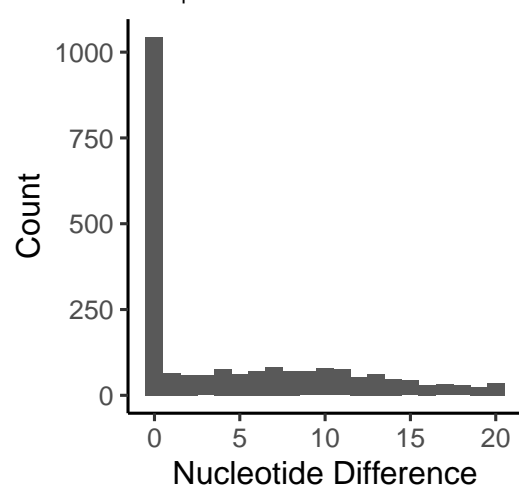
IGHV2-70*01

568 sequences assigned
354 (62.3%) exact matches, in which:
350 unique CDR3
6 unique J



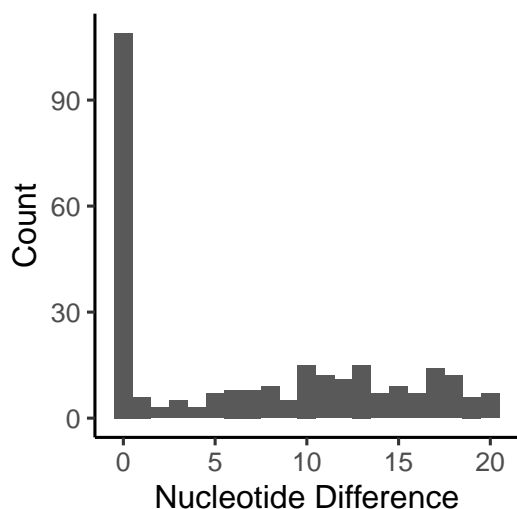
IGHV3-11*01

2367 sequences assigned
1044 (44.1%) exact matches, in which:
1014 unique CDR3
6 unique J



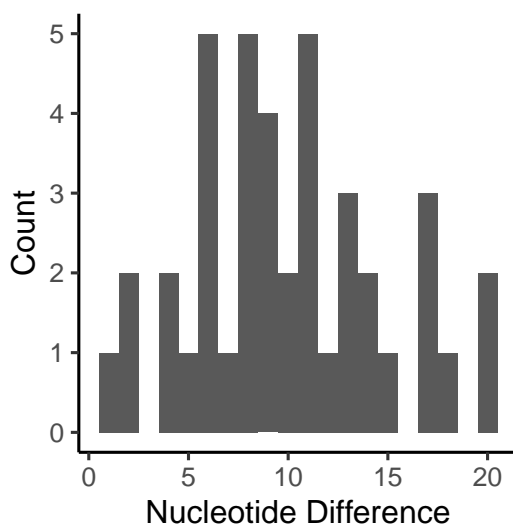
IGHV3-13*01

314 sequences assigned
109 (34.7%) exact matches, in which:
105 unique CDR3
5 unique J



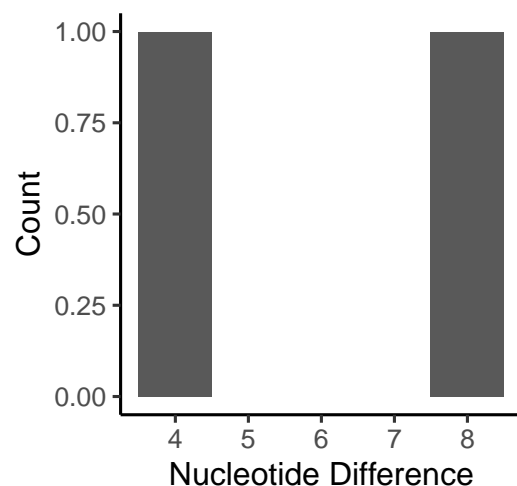
IGHV3-20*03_04

49 sequences assigned
No exact matches.



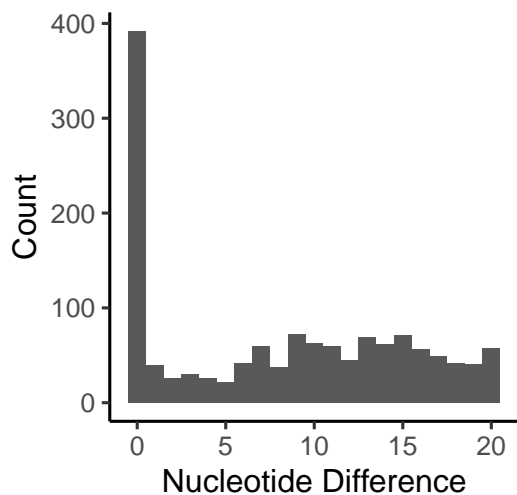
IGHV3-30-3*01

2 sequences assigned
No exact matches.



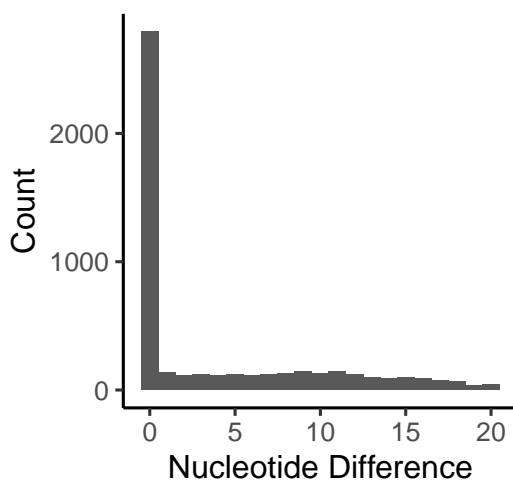
IGHV3-15*01_02

1648 sequences assigned
392 (23.8%) exact matches, in which:
386 unique CDR3
6 unique J



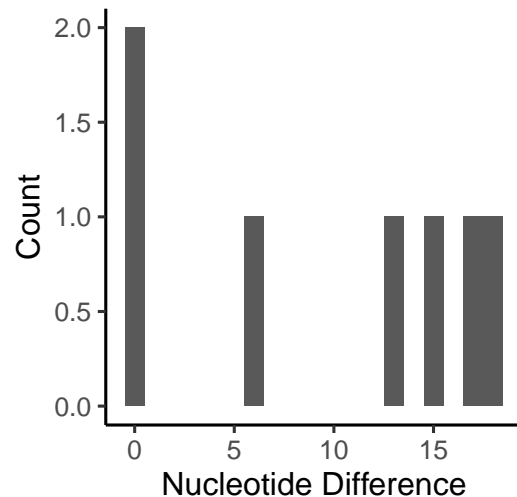
IGHV3-21*01_02

5155 sequences assigned
2793 (54.2%) exact matches, in which:
2672 unique CDR3
6 unique J



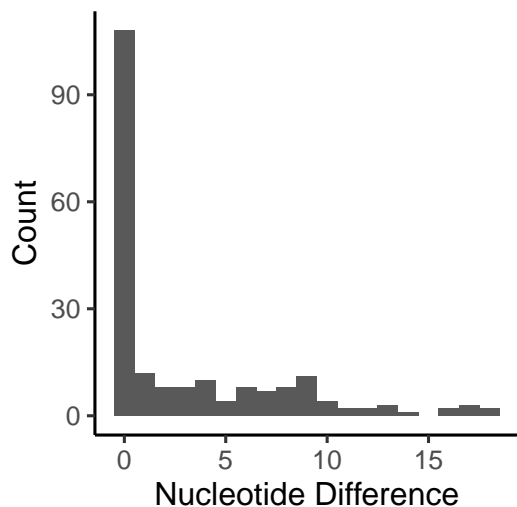
IGHV3-30-3*03

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



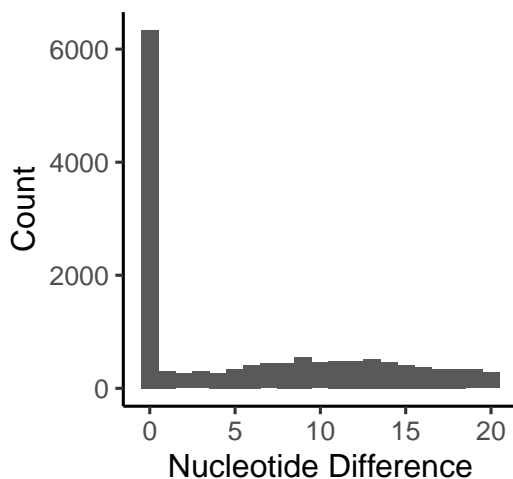
IGHV3-20*01_02

214 sequences assigned
108 (50.5%) exact matches, in which:
102 unique CDR3
5 unique J



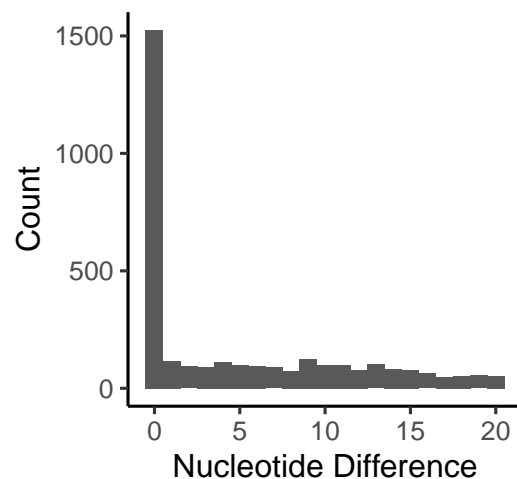
IGHV3-23*01_04

15894 sequences assigned
6338 (39.9%) exact matches, in which:
6109 unique CDR3
6 unique J



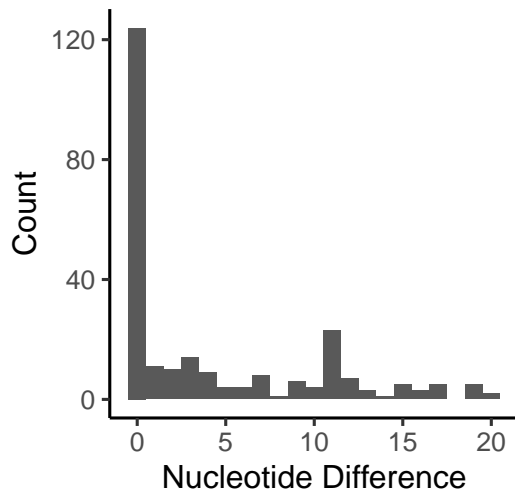
IGHV3-33*01

3517 sequences assigned
1525 (43.4%) exact matches, in which:
1488 unique CDR3
6 unique J



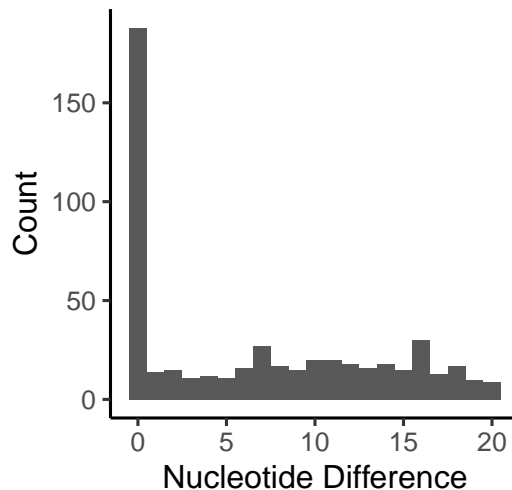
IGHV3-43*01

279 sequences assigned
124 (44.4%) exact matches, in which:
118 unique CDR3
6 unique J



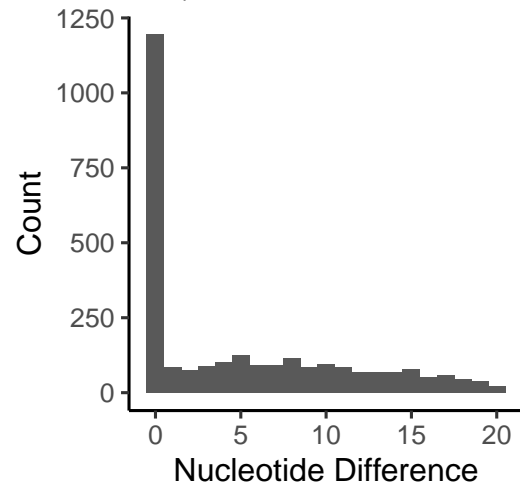
IGHV3-49*04

595 sequences assigned
188 (31.6%) exact matches, in which:
186 unique CDR3
5 unique J



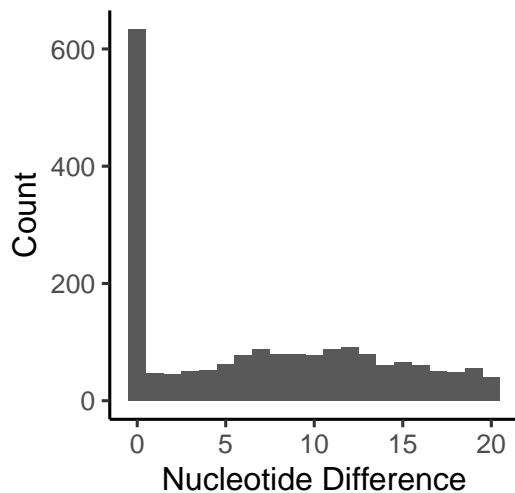
IGHV3-53*01_02

2974 sequences assigned
1195 (40.2%) exact matches, in which:
1148 unique CDR3
6 unique J



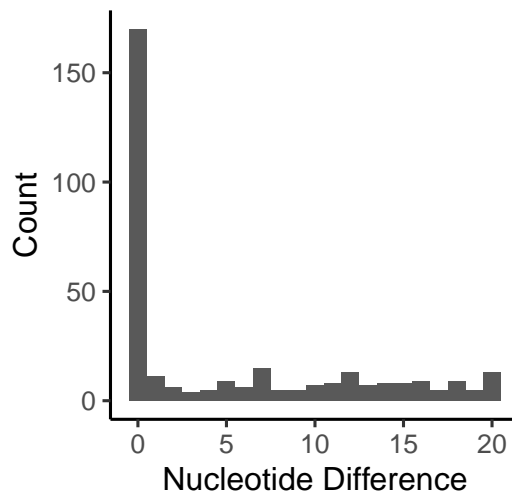
IGHV3-48*02

2220 sequences assigned
634 (28.6%) exact matches, in which:
613 unique CDR3
6 unique J



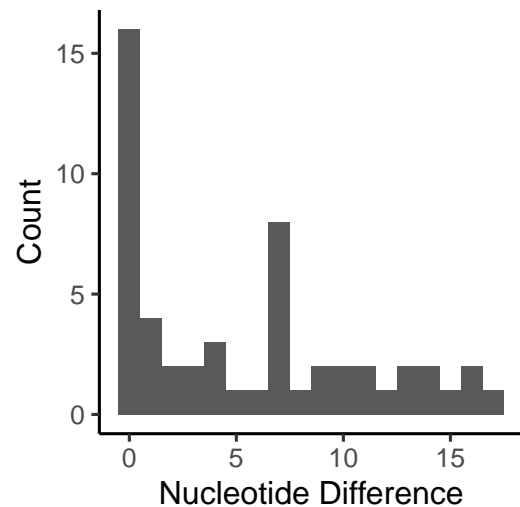
IGHV3-49*03_05

364 sequences assigned
170 (46.7%) exact matches, in which:
166 unique CDR3
6 unique J



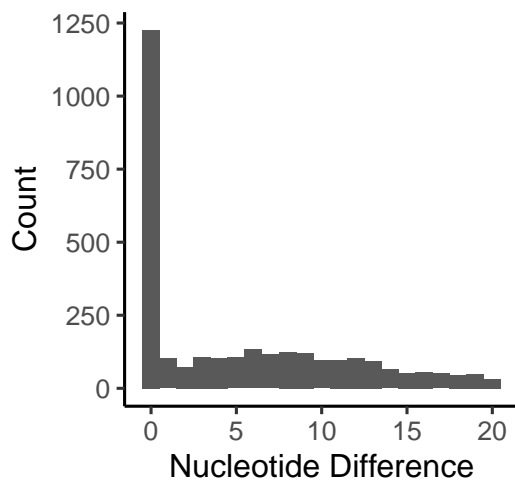
IGHV3-64*02_07

58 sequences assigned
16 (27.6%) exact matches, in which:
16 unique CDR3
4 unique J



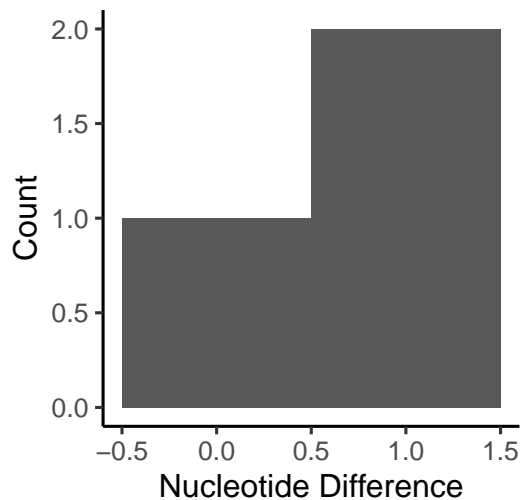
IGHV3-48*03

3202 sequences assigned
1226 (38.3%) exact matches, in which:
1182 unique CDR3
6 unique J



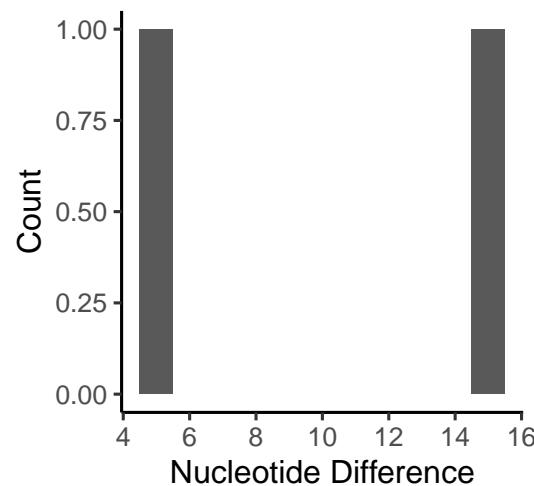
IGHV3-52*01_03

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



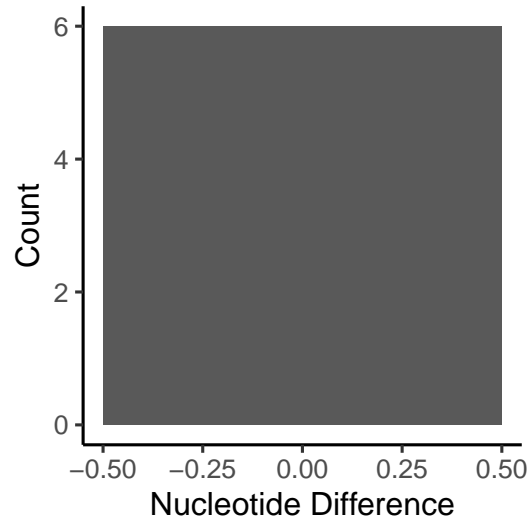
IGHV3-66*02

2 sequences assigned
No exact matches.



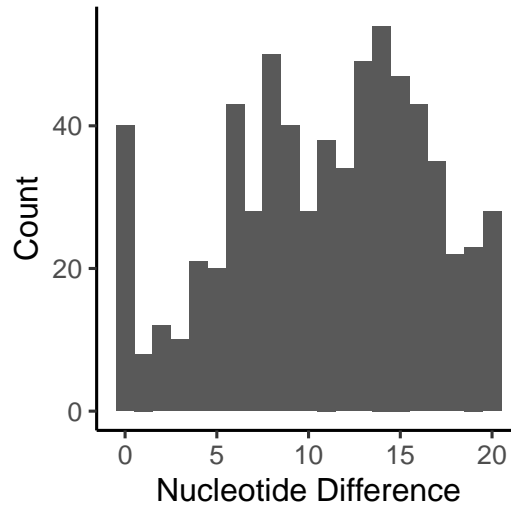
IGHV3-66*03

6 sequences assigned
6 (100%) exact matches, in which:
5 unique CDR3
2 unique J



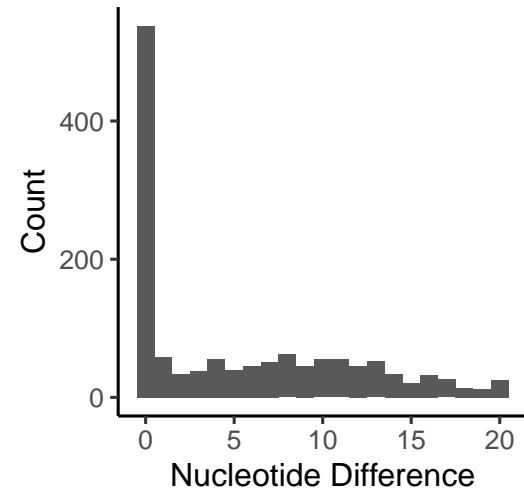
IGHV3-72*01

798 sequences assigned
40 (5%) exact matches, in which:
40 unique CDR3
5 unique J



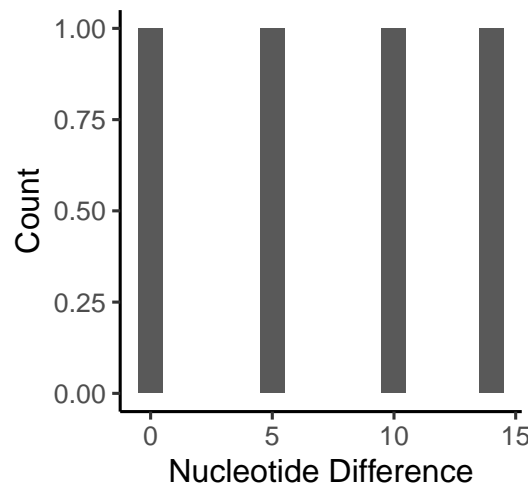
IGHV3-74*01_02

1460 sequences assigned
538 (36.8%) exact matches, in which:
524 unique CDR3
6 unique J



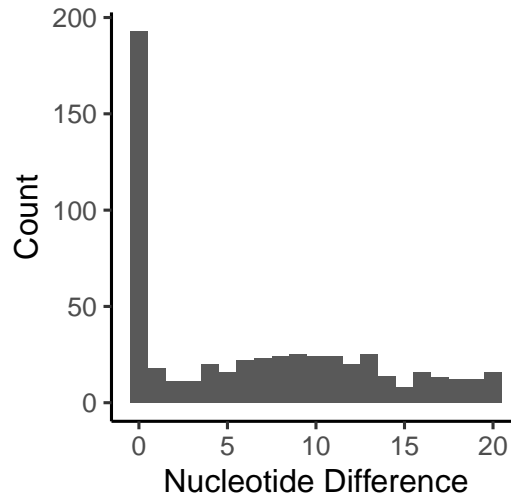
IGHV3-66*04

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



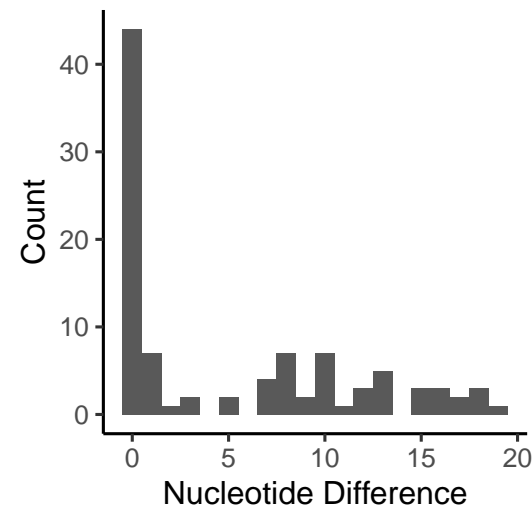
IGHV3-73*01_02

615 sequences assigned
193 (31.4%) exact matches, in which:
185 unique CDR3
6 unique J



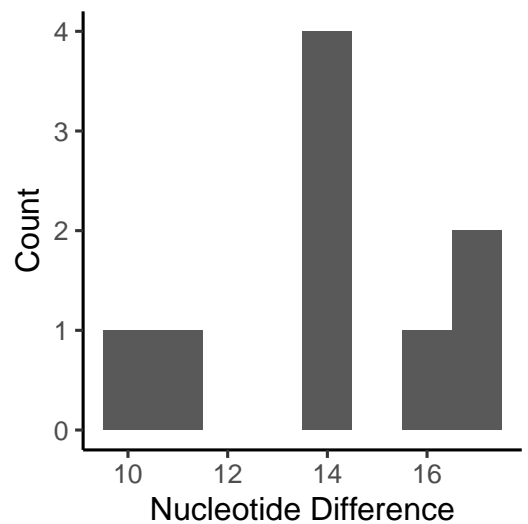
IGHV3-43D*04

104 sequences assigned
44 (42.3%) exact matches, in which:
43 unique CDR3
4 unique J



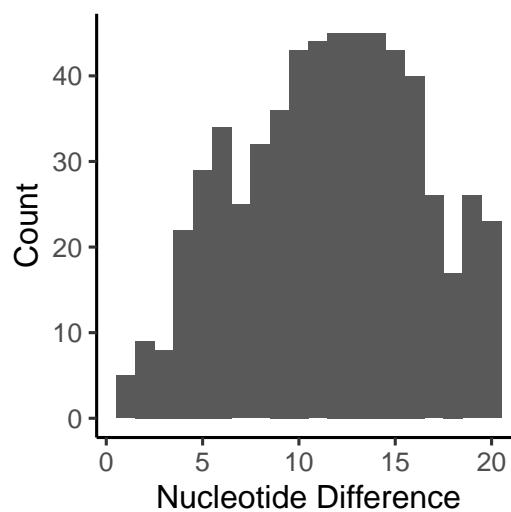
IGHV3-69-1*01

15 sequences assigned
No exact matches.



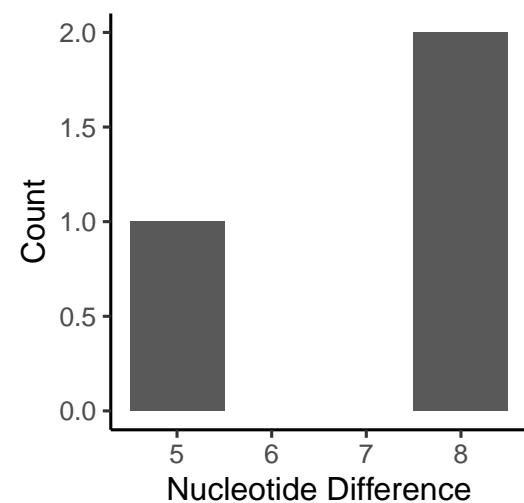
IGHV3-74*03

732 sequences assigned
No exact matches.



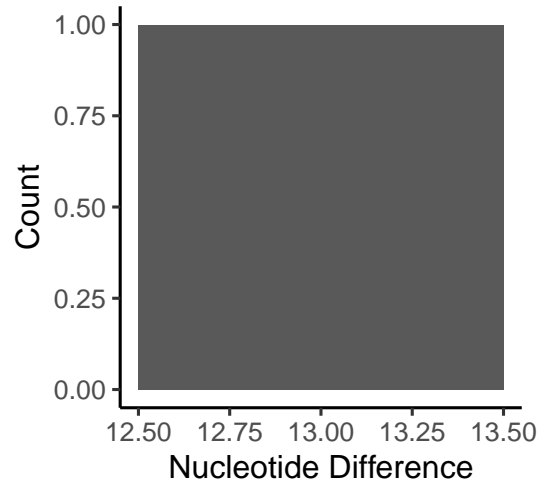
IGHV3-64D*06

3 sequences assigned
No exact matches.



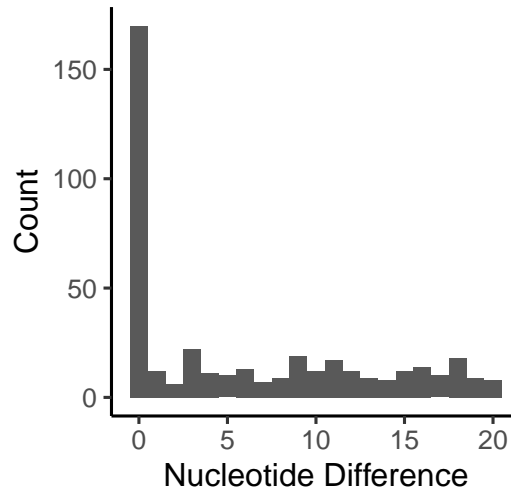
IGHV3-64D*08

1 sequences assigned
No exact matches.



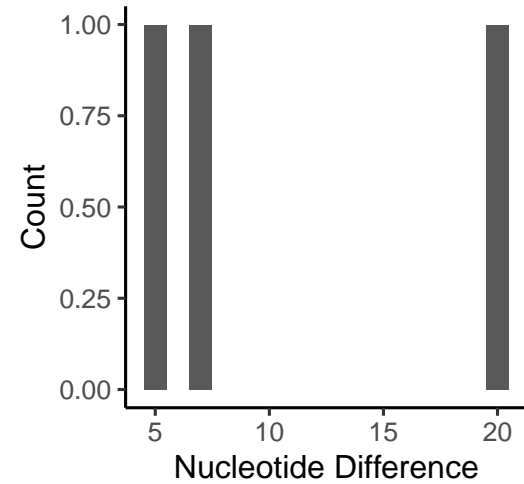
IGHV4-4*02_03

491 sequences assigned
170 (34.6%) exact matches, in which:
164 unique CDR3
6 unique J



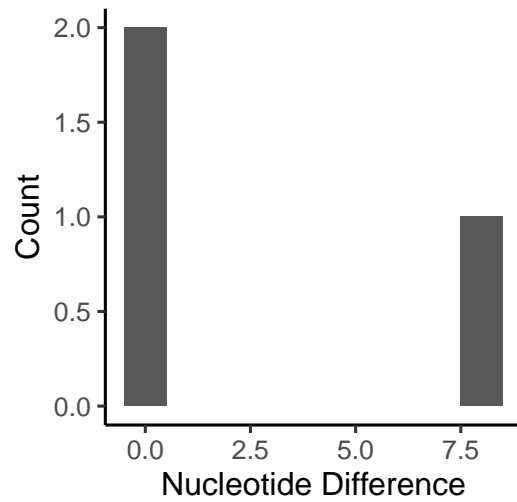
IGHV4-28*02_05

3 sequences assigned
No exact matches.



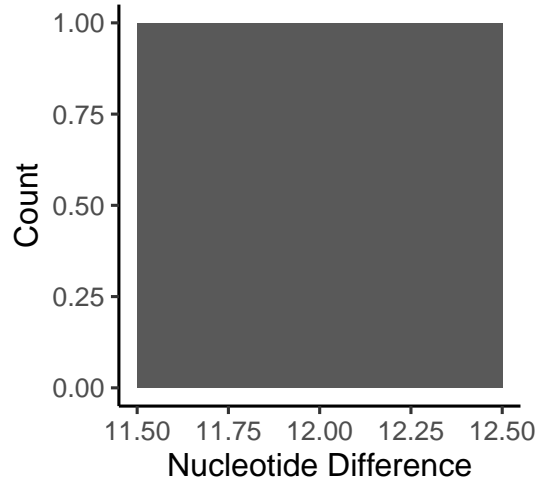
IGHV3-64D*09

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



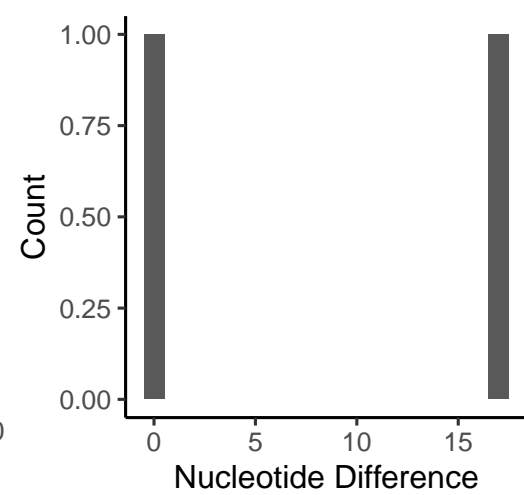
IGHV4-28*03

1 sequences assigned
No exact matches.



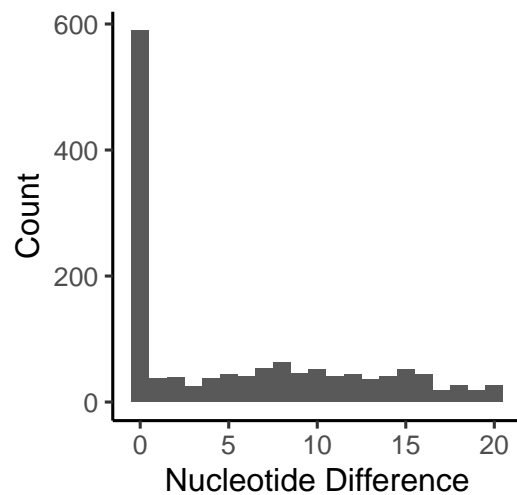
IGHV4-30-2*01

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



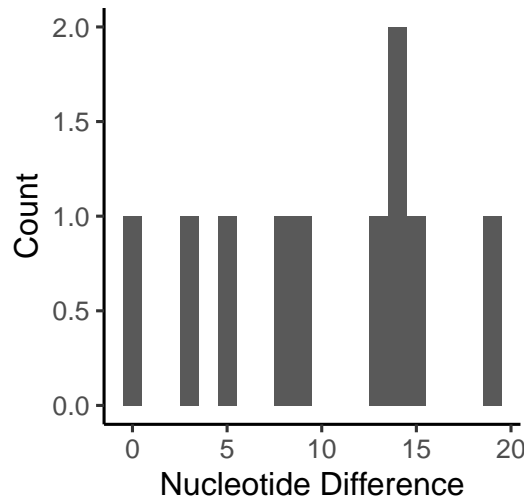
IGHV4-4*07

1523 sequences assigned
590 (38.7%) exact matches, in which:
584 unique CDR3
6 unique J



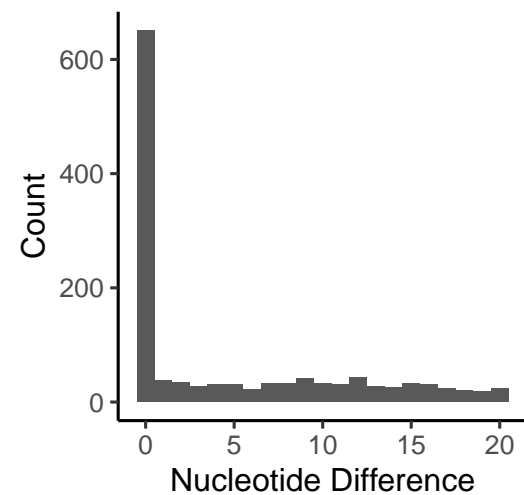
IGHV4-28*01_07

10 sequences assigned
1 (10%) exact matches, in which:
1 unique CDR3
1 unique J



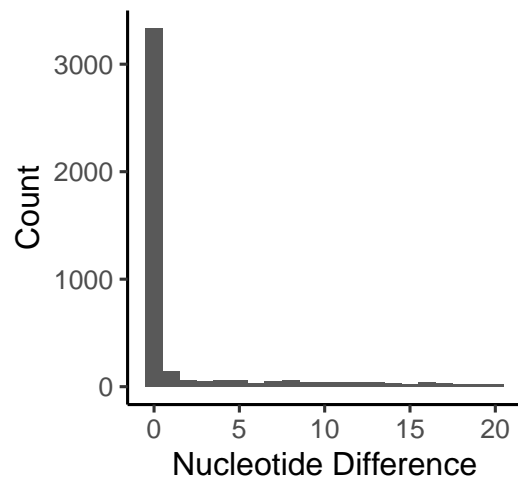
IGHV4-31*02

1380 sequences assigned
651 (47.2%) exact matches, in which:
643 unique CDR3
6 unique J



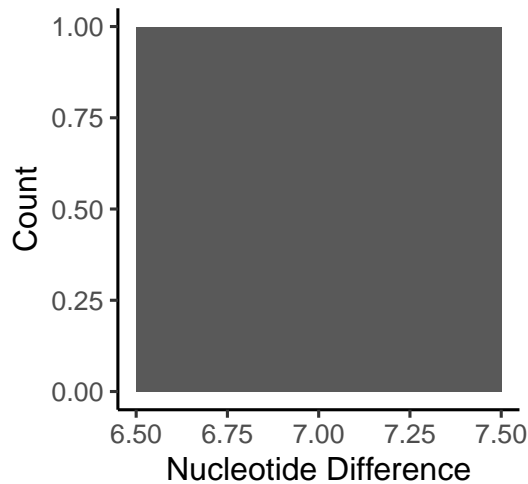
IGHV4–34*01_02

4501 sequences assigned
3333 (74.1%) exact matches, in which:
3246 unique CDR3
6 unique J



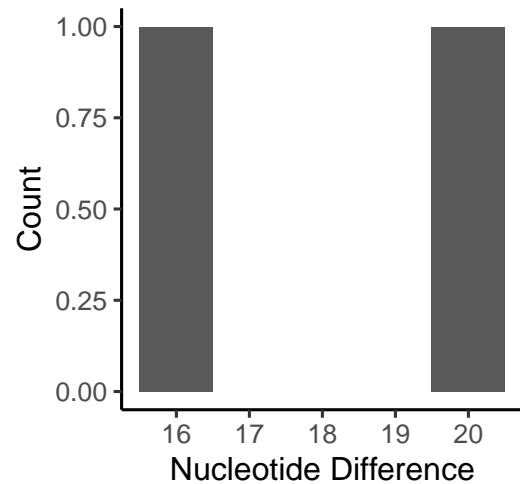
IGHV4–55*09

1 sequences assigned
No exact matches.



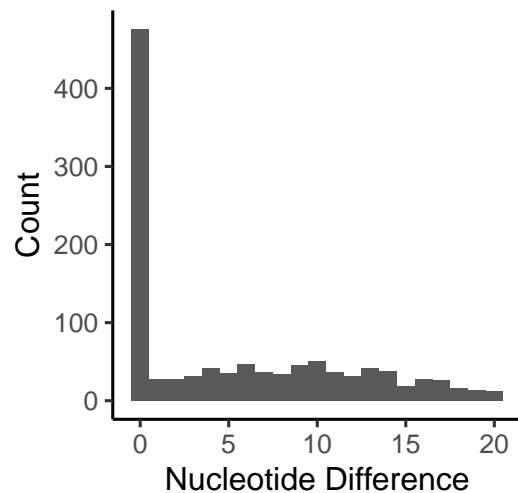
IGHV4/OR15–8*01

3 sequences assigned
No exact matches.



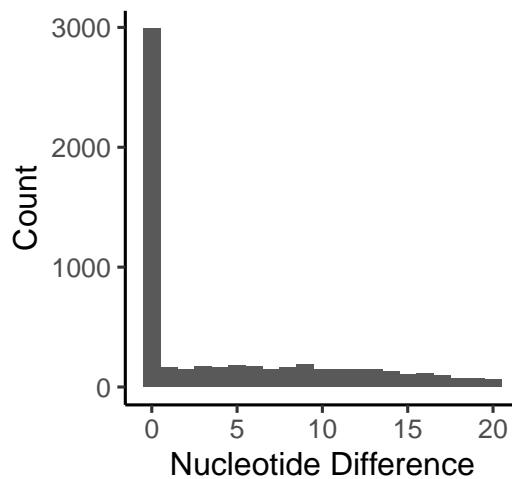
IGHV4–38–2*02_A70G

1227 sequences assigned
476 (38.8%) exact matches, in which:
469 unique CDR3
6 unique J



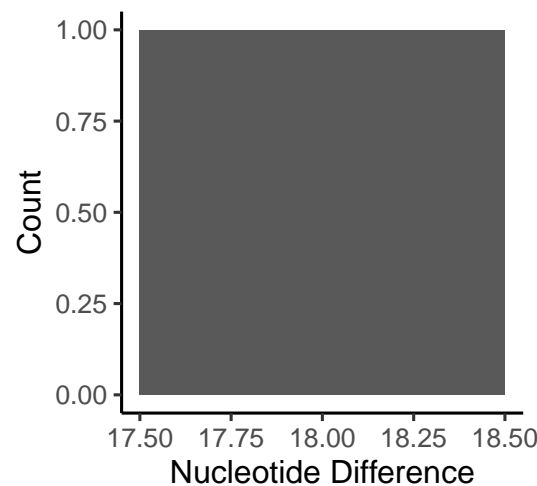
IGHV4–59*02_G88A

6176 sequences assigned
2989 (48.4%) exact matches, in which:
2899 unique CDR3
6 unique J



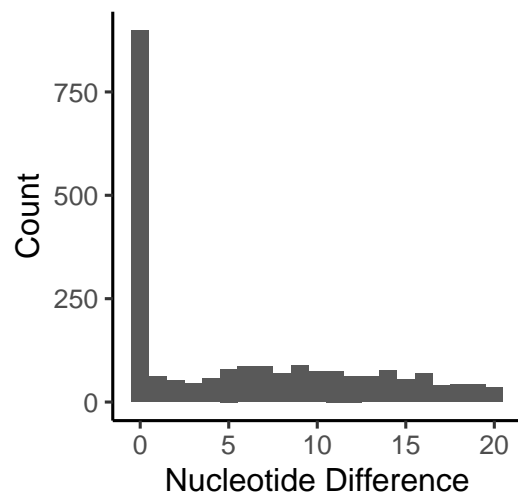
IGHV4/OR15–8*02

2 sequences assigned
No exact matches.



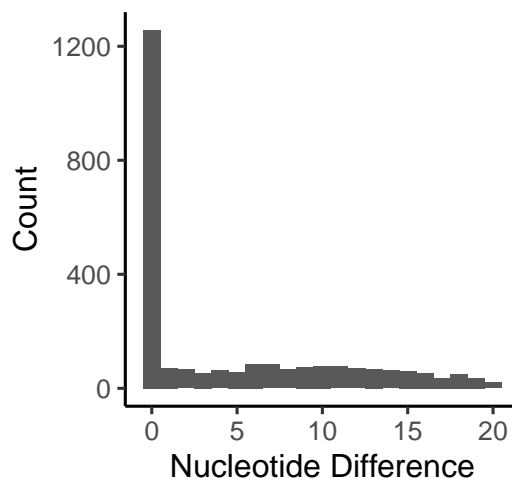
IGHV4–39*02_C258G

2498 sequences assigned
899 (36%) exact matches, in which:
887 unique CDR3
6 unique J



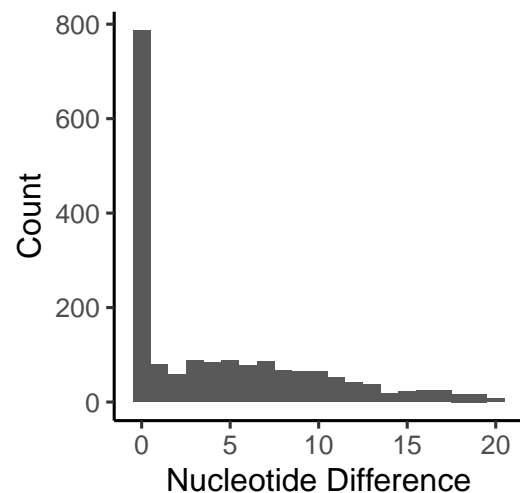
IGHV4–61*01

2648 sequences assigned
1257 (47.5%) exact matches, in which:
1216 unique CDR3
6 unique J



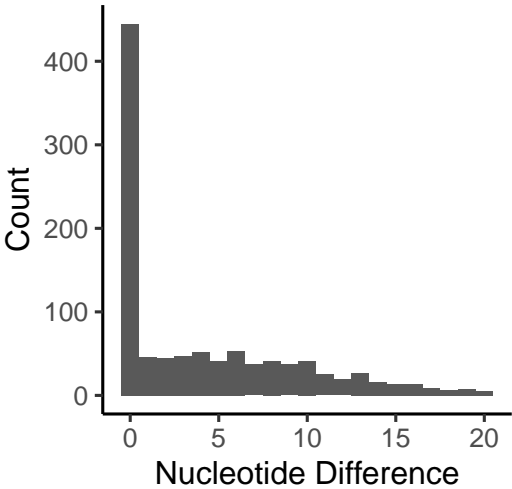
IGHV5–51*07_A128G

1871 sequences assigned
787 (42.1%) exact matches, in which:
787 unique CDR3
6 unique J



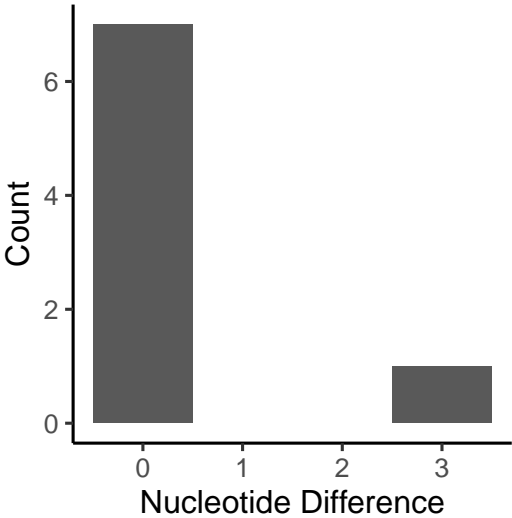
IGHV6-1*01_02

1056 sequences assigned
445 (42.1%) exact matches, in which:
445 unique CDR3
6 unique J



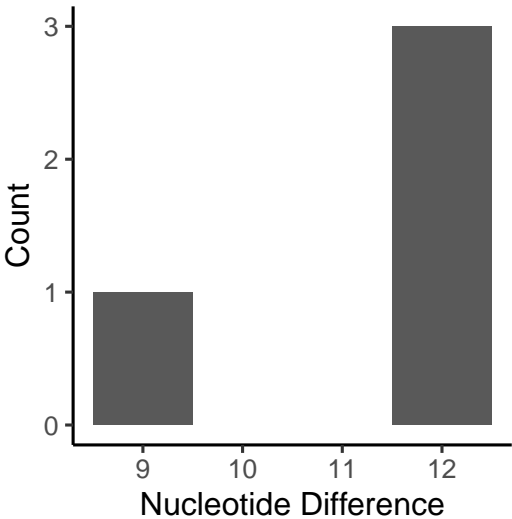
IGHV7-4-1*01

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
3 unique J



IGHV7-4-1*02

4 sequences assigned
No exact matches.





Warning – no inferred sequences found.