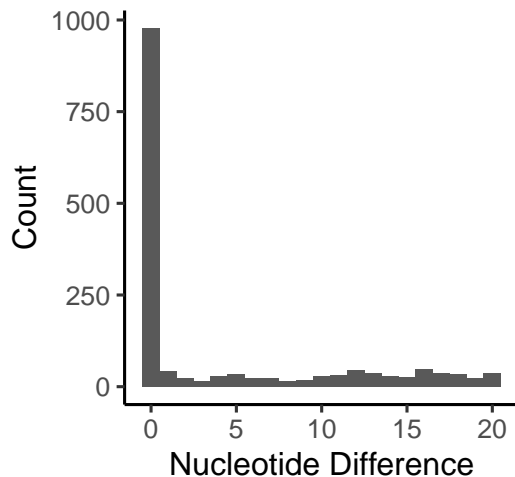


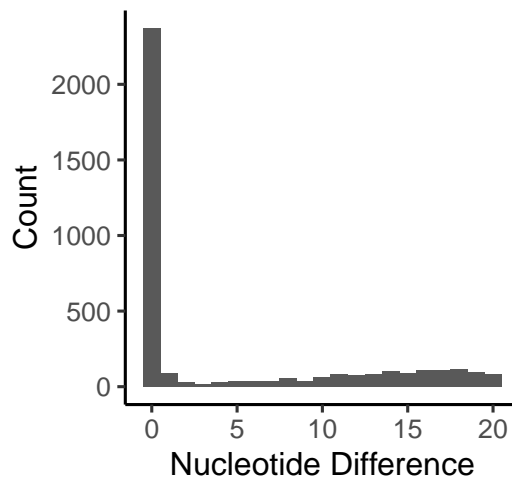
IGHV1-2*04

1764 sequences assigned
977 (55.4%) exact matches, in which:
809 unique CDR3
6 unique J



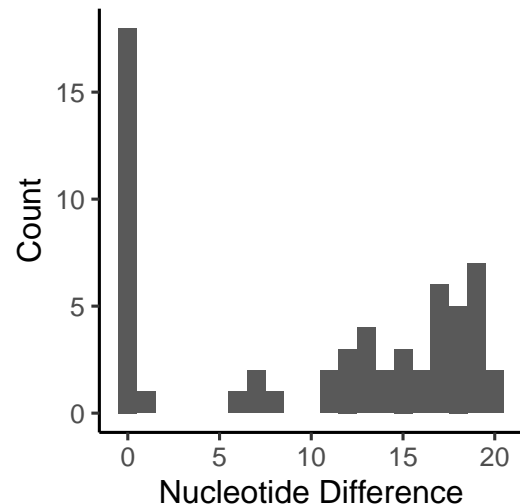
IGHV1-18*01

4513 sequences assigned
2370 (52.5%) exact matches, in which:
1928 unique CDR3
6 unique J



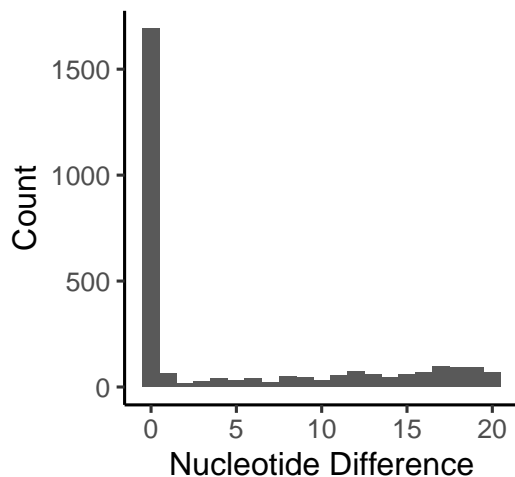
IGHV1-45*02

154 sequences assigned
18 (11.7%) exact matches, in which:
14 unique CDR3
5 unique J



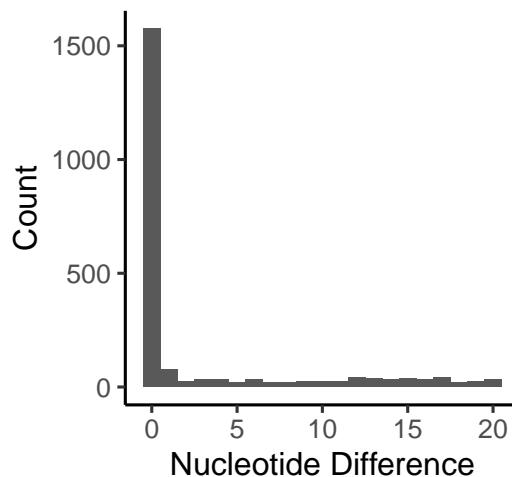
IGHV1-3*01

3554 sequences assigned
1691 (47.6%) exact matches, in which:
1431 unique CDR3
6 unique J



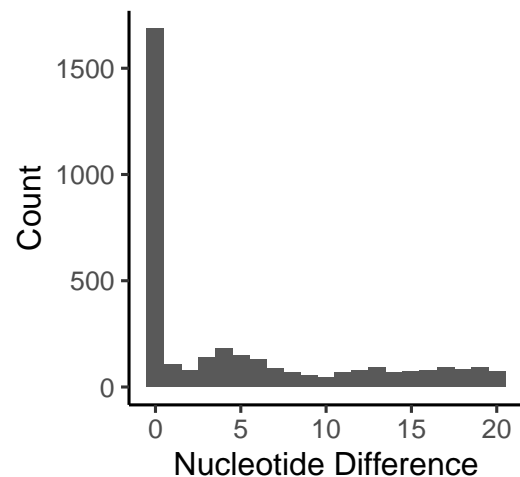
IGHV1-18*04

2511 sequences assigned
1575 (62.7%) exact matches, in which:
1283 unique CDR3
6 unique J



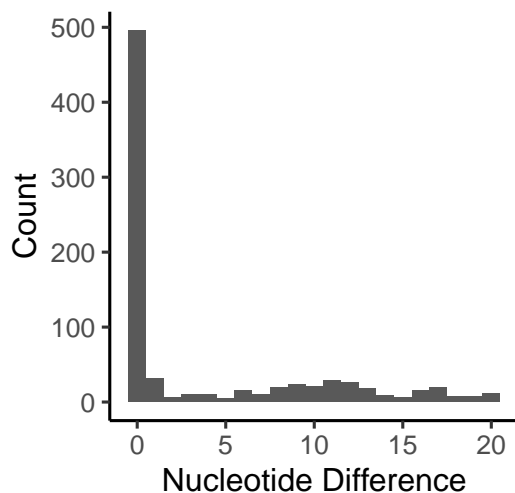
IGHV1-46*01

4409 sequences assigned
1686 (38.2%) exact matches, in which:
1310 unique CDR3
6 unique J



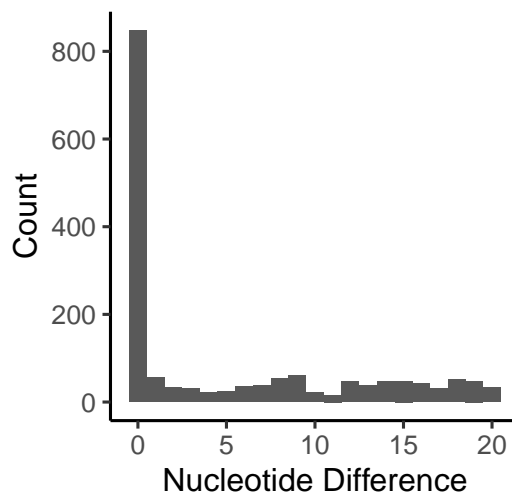
IGHV1-8*01

910 sequences assigned
496 (54.5%) exact matches, in which:
410 unique CDR3
6 unique J



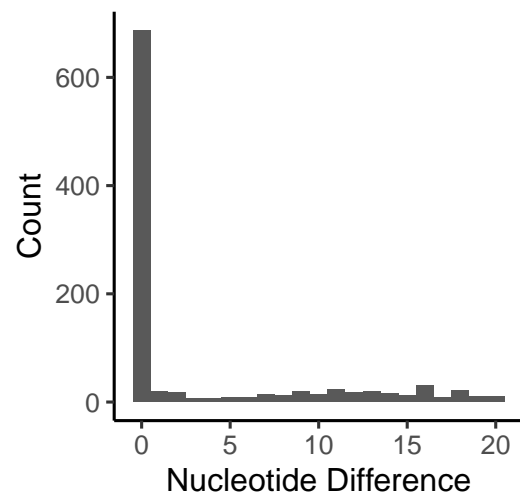
IGHV1-24*01

2045 sequences assigned
848 (41.5%) exact matches, in which:
710 unique CDR3
6 unique J



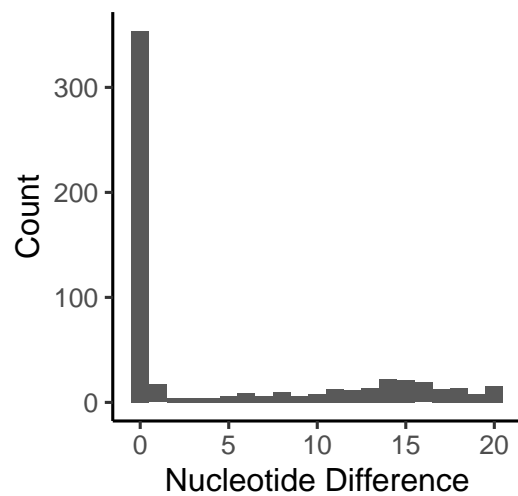
IGHV1-46*03

1097 sequences assigned
687 (62.6%) exact matches, in which:
556 unique CDR3
6 unique J



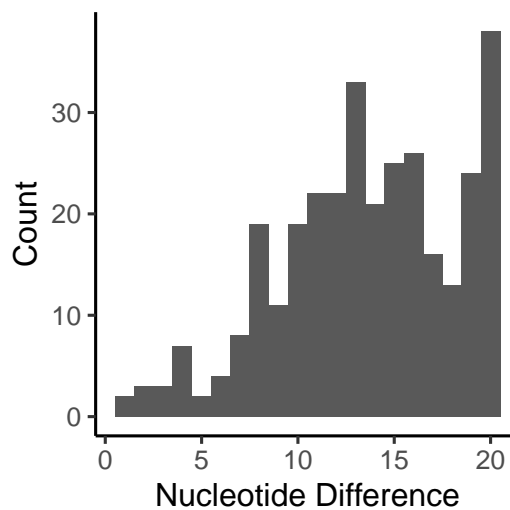
IGHV1–58*01

666 sequences assigned
354 (53.2%) exact matches, in which:
260 unique CDR3
6 unique J



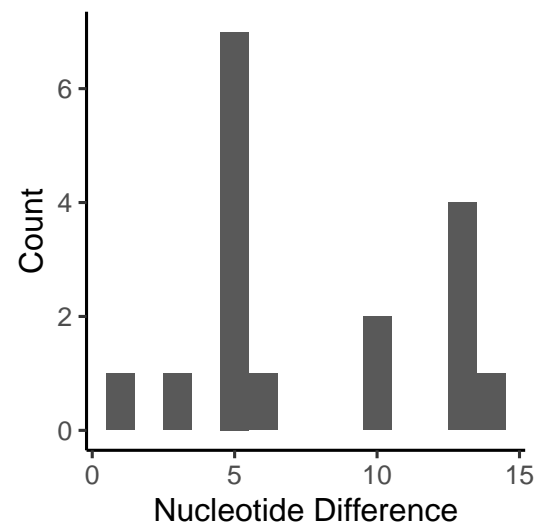
IGHV2–5*02

513 sequences assigned
No exact matches.



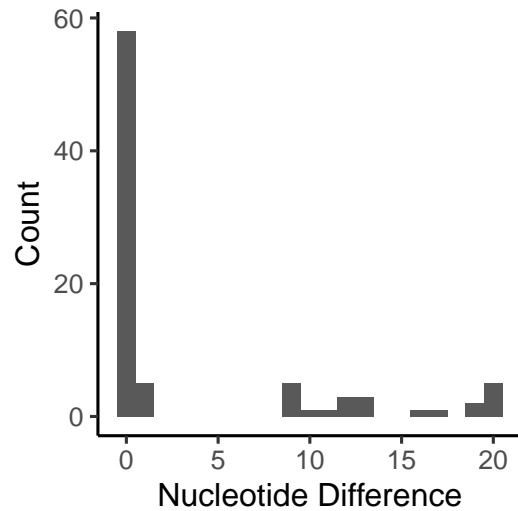
IGHV2–70D*04

18 sequences assigned
No exact matches.



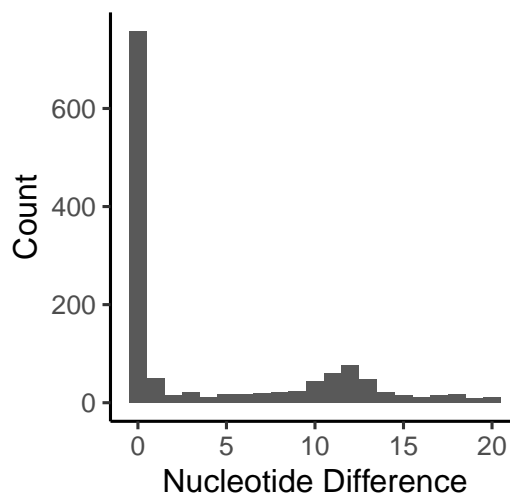
IGHV1–58*02

137 sequences assigned
58 (42.3%) exact matches, in which:
50 unique CDR3
5 unique J



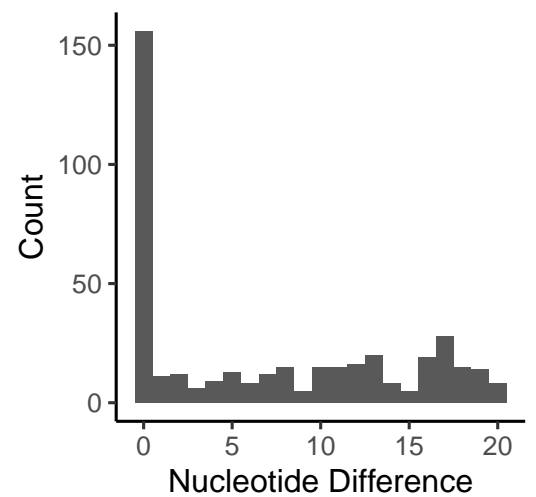
IGHV2–26*01

1368 sequences assigned
758 (55.4%) exact matches, in which:
640 unique CDR3
6 unique J



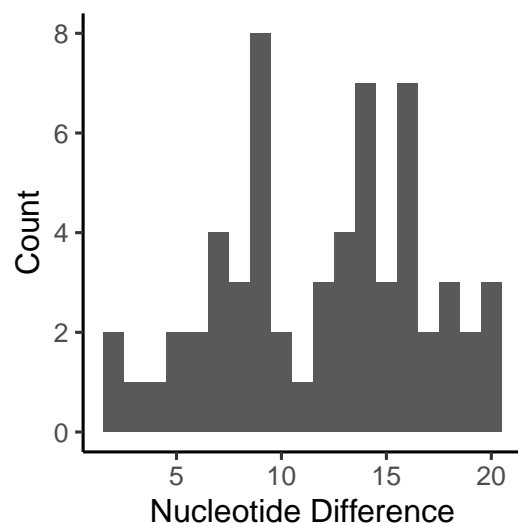
IGHV3–7*01

484 sequences assigned
156 (32.2%) exact matches, in which:
145 unique CDR3
4 unique J



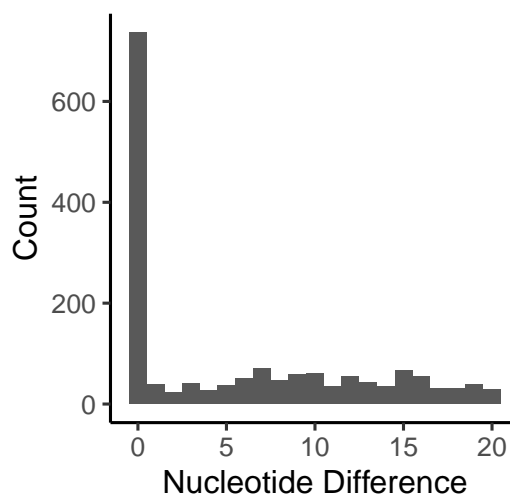
IGHV2–5*01

130 sequences assigned
No exact matches.



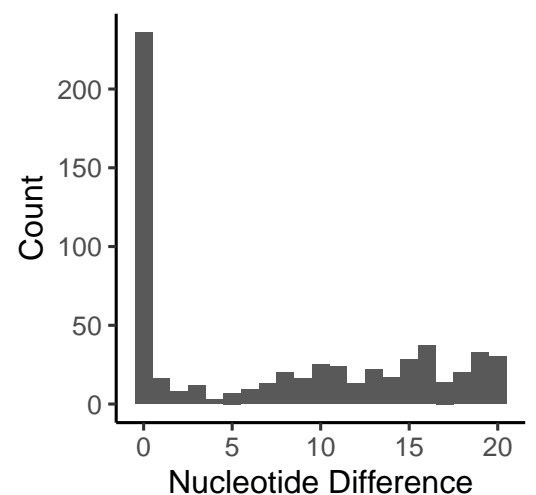
IGHV2–70*01

1826 sequences assigned
737 (40.4%) exact matches, in which:
554 unique CDR3
5 unique J



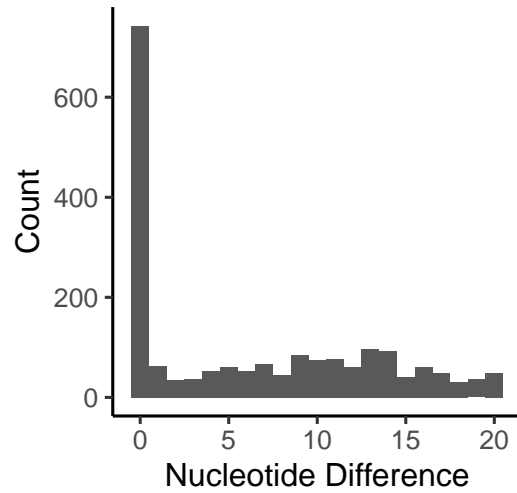
IGHV3–7*03

729 sequences assigned
236 (32.4%) exact matches, in which:
219 unique CDR3
6 unique J



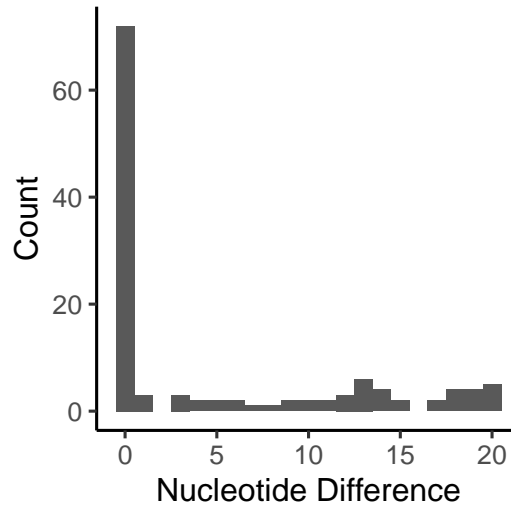
IGHV3-9*01

2104 sequences assigned
743 (35.3%) exact matches, in which:
673 unique CDR3
6 unique J



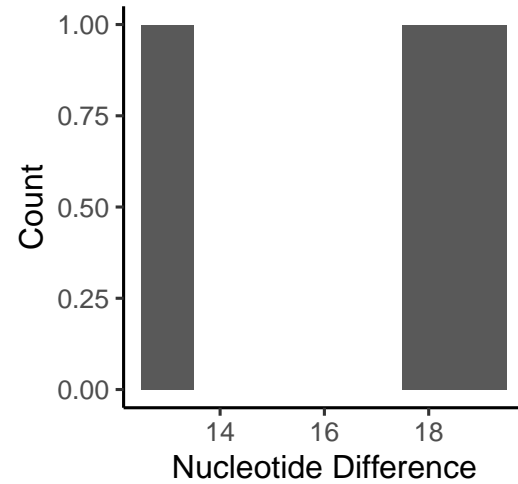
IGHV3-13*01

138 sequences assigned
72 (52.2%) exact matches, in which:
65 unique CDR3
5 unique J



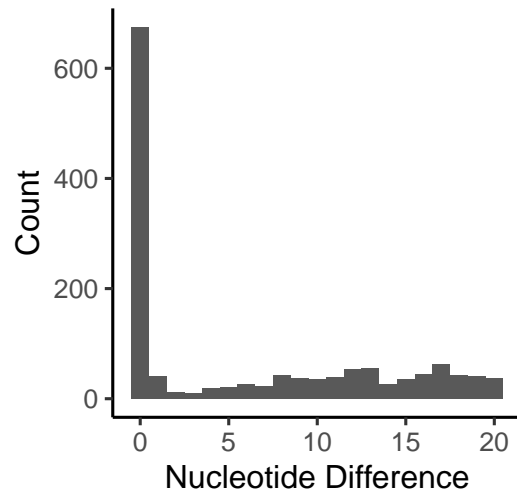
IGHV3-20*01

3 sequences assigned
No exact matches.



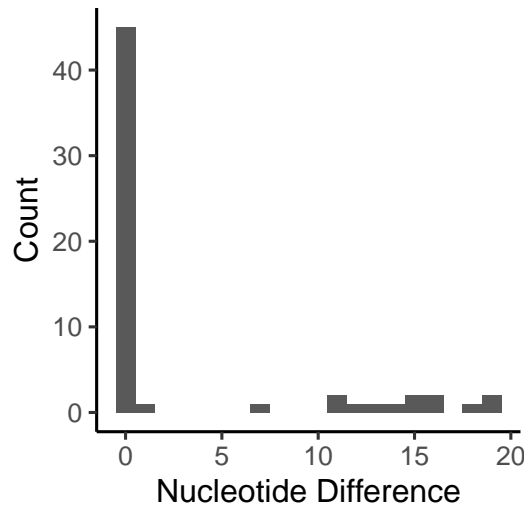
IGHV3-11*01

1558 sequences assigned
675 (43.3%) exact matches, in which:
603 unique CDR3
6 unique J



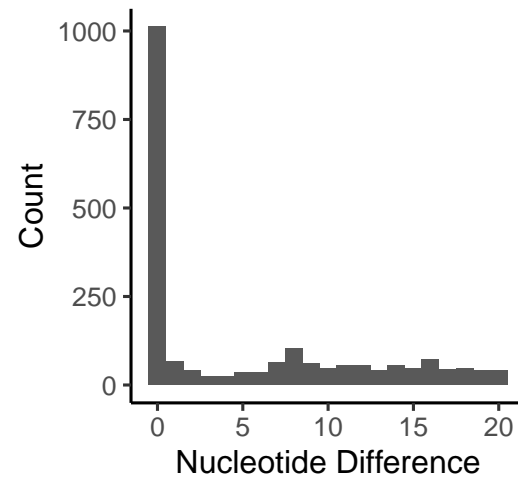
IGHV3-13*05

66 sequences assigned
45 (68.2%) exact matches, in which:
41 unique CDR3
4 unique J



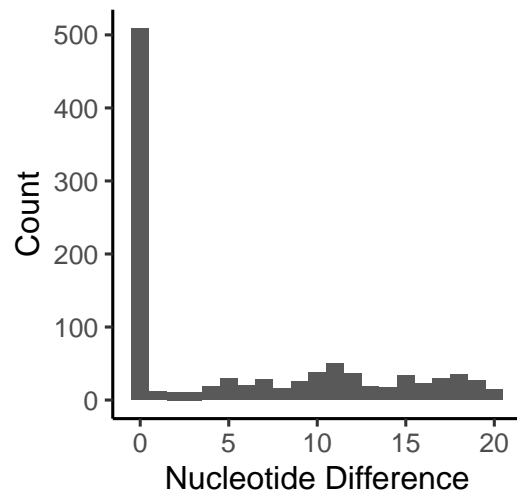
IGHV3-30*01

2298 sequences assigned
1012 (44%) exact matches, in which:
917 unique CDR3
6 unique J



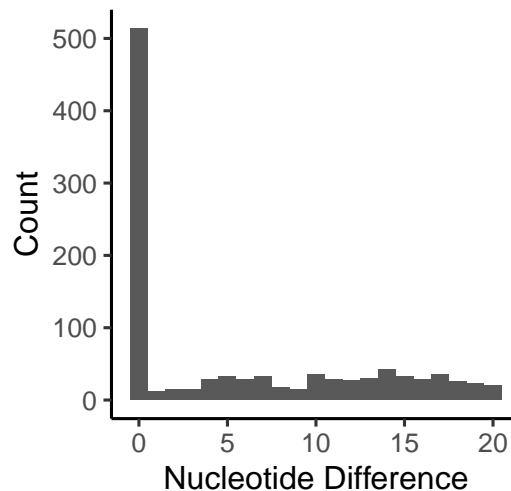
IGHV3-11*06

1251 sequences assigned
509 (40.7%) exact matches, in which:
446 unique CDR3
6 unique J



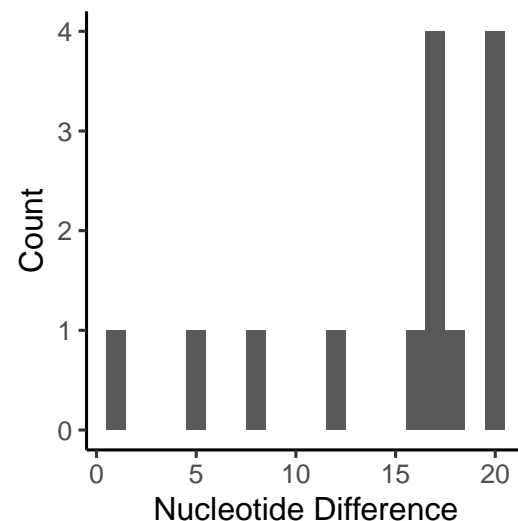
IGHV3-15*01

1319 sequences assigned
514 (39%) exact matches, in which:
487 unique CDR3
5 unique J



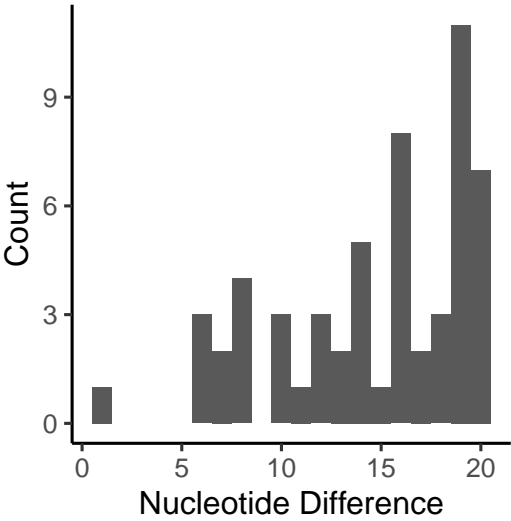
IGHV3-30-3*01

31 sequences assigned
No exact matches.



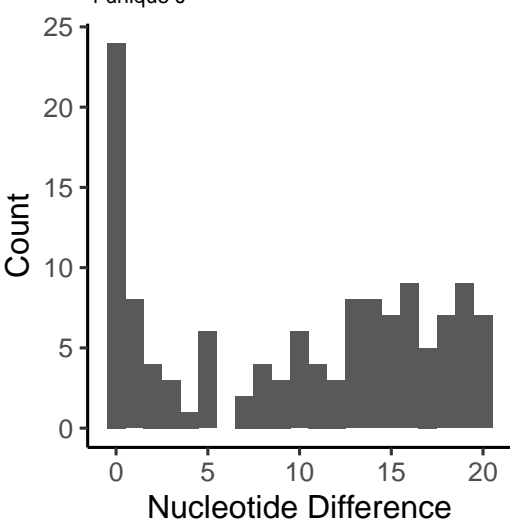
IGHV3-30-3*03

109 sequences assigned
No exact matches.



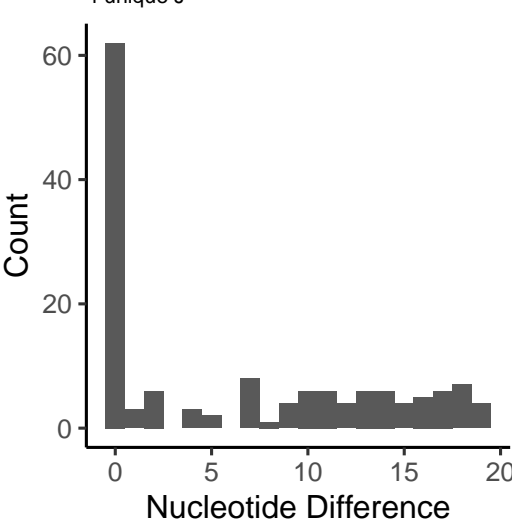
IGHV3-43*01

200 sequences assigned
24 (12%) exact matches, in which:
20 unique CDR3
4 unique J



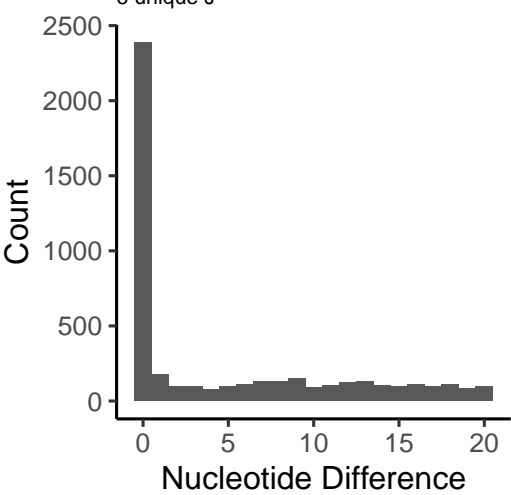
IGHV3-49*04

235 sequences assigned
62 (26.4%) exact matches, in which:
55 unique CDR3
4 unique J



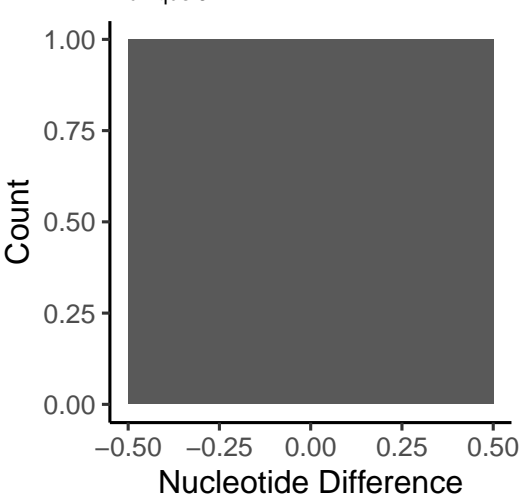
IGHV3-33*01

5374 sequences assigned
2386 (44.4%) exact matches, in which:
2119 unique CDR3
6 unique J



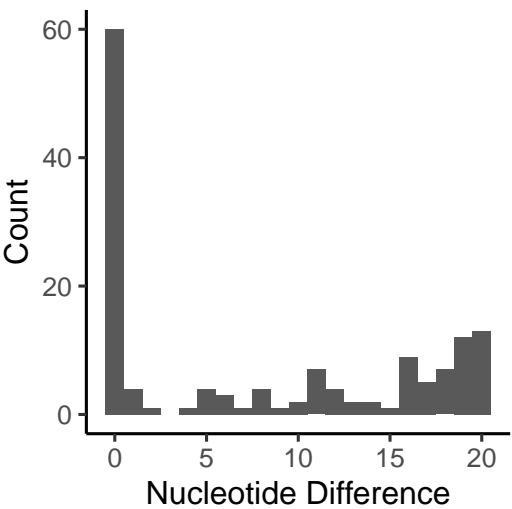
IGHV3-47*02

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



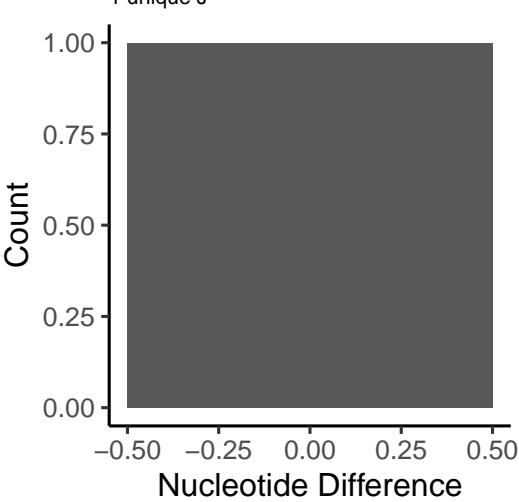
IGHV3-49*05

211 sequences assigned
60 (28.4%) exact matches, in which:
55 unique CDR3
5 unique J



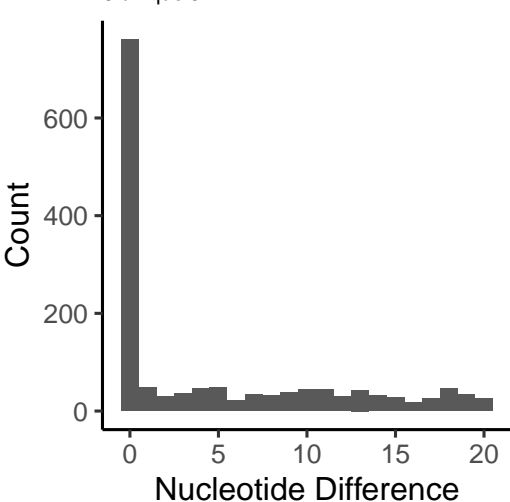
IGHV3-35*01

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



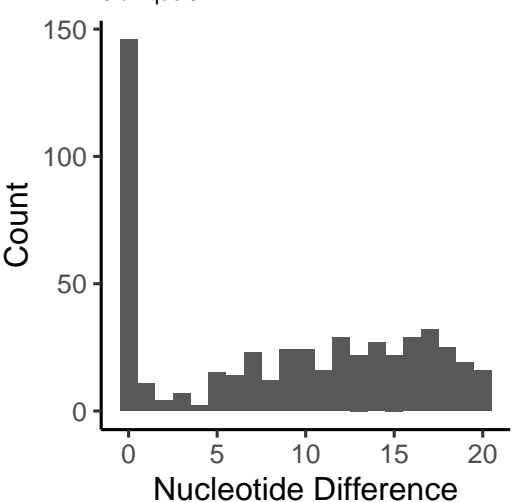
IGHV3-48*02

1722 sequences assigned
761 (44.2%) exact matches, in which:
691 unique CDR3
6 unique J



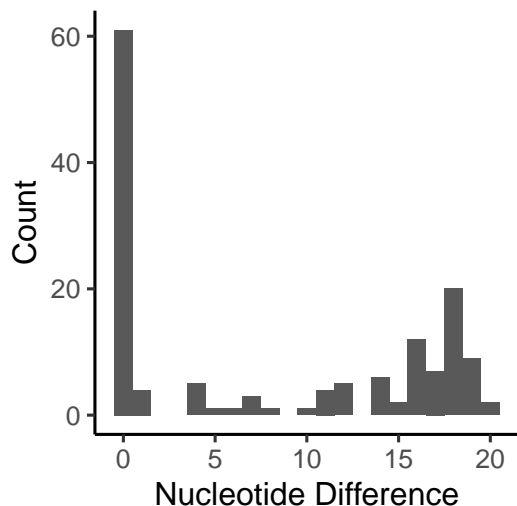
IGHV3-53*01

704 sequences assigned
146 (20.7%) exact matches, in which:
136 unique CDR3
6 unique J



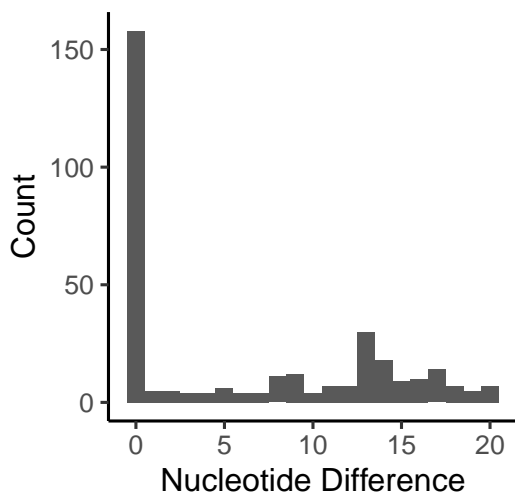
IGHV3-53*04

160 sequences assigned
61 (38.1%) exact matches, in which:
54 unique CDR3
5 unique J



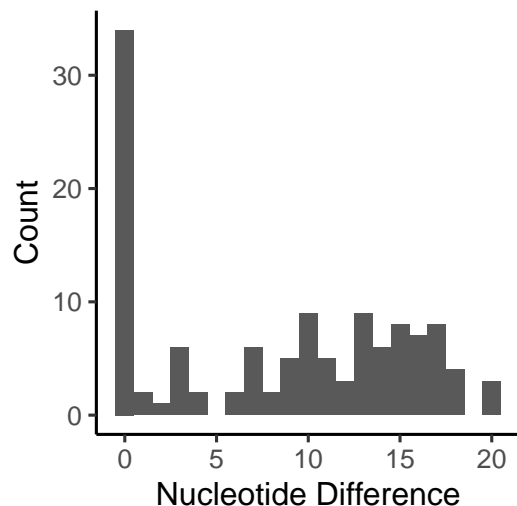
IGHV3-66*02

452 sequences assigned
158 (35%) exact matches, in which:
144 unique CDR3
6 unique J



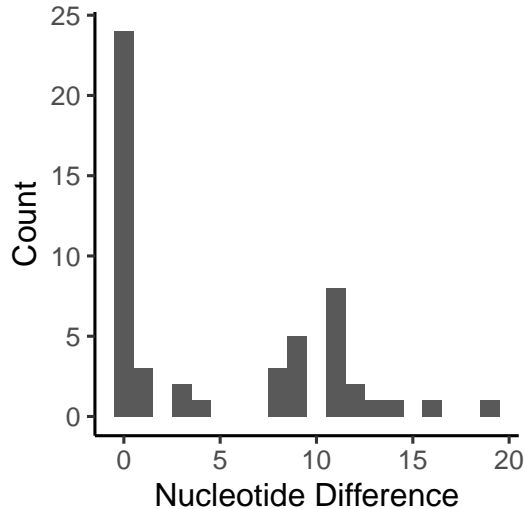
IGHV3-73*01

178 sequences assigned
34 (19.1%) exact matches, in which:
32 unique CDR3
4 unique J



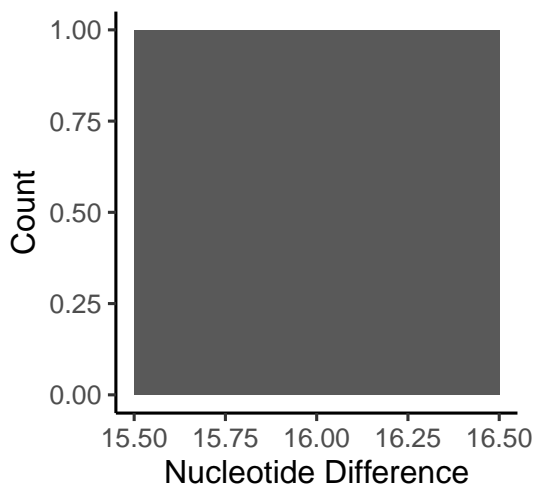
IGHV3-64*01

54 sequences assigned
24 (44.4%) exact matches, in which:
22 unique CDR3
5 unique J



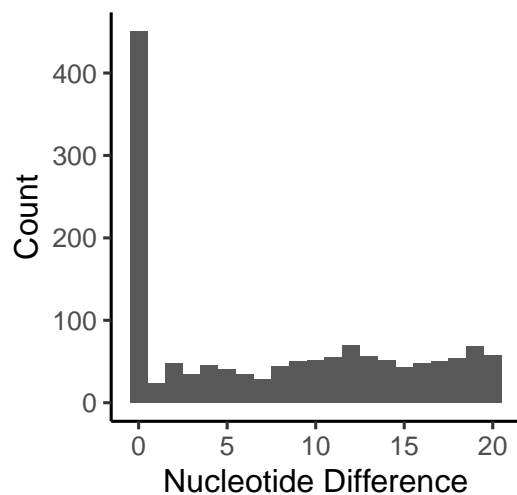
IGHV3-69-1*02

1 sequences assigned
No exact matches.



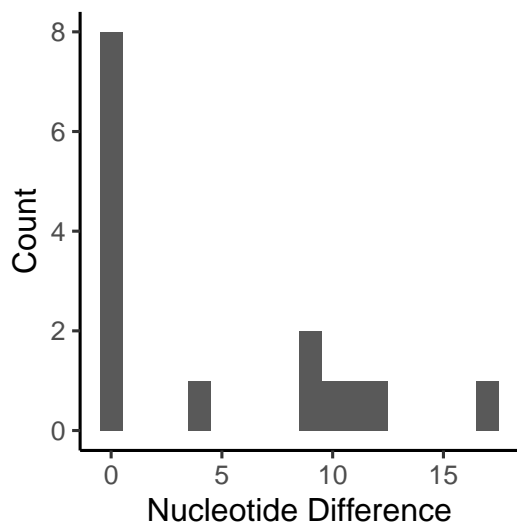
IGHV3-74*01

1915 sequences assigned
451 (23.6%) exact matches, in which:
418 unique CDR3
6 unique J



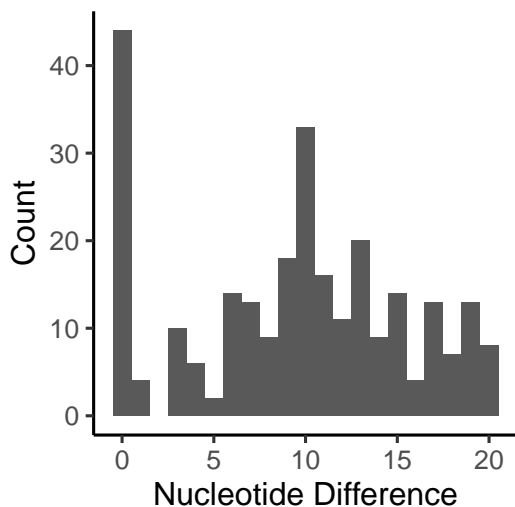
IGHV3-64*02

16 sequences assigned
8 (50%) exact matches, in which:
8 unique CDR3
3 unique J



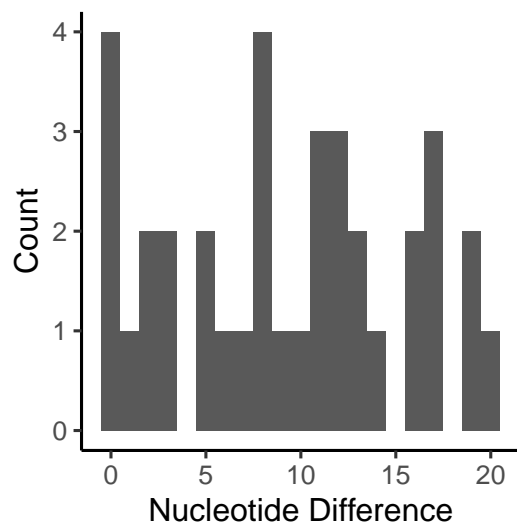
IGHV3-72*01

307 sequences assigned
44 (14.3%) exact matches, in which:
32 unique CDR3
4 unique J



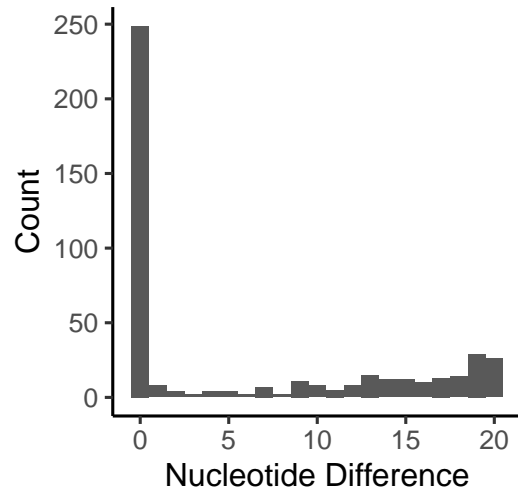
IGHV3-43D*03

47 sequences assigned
4 (8.5%) exact matches, in which:
4 unique CDR3
2 unique J



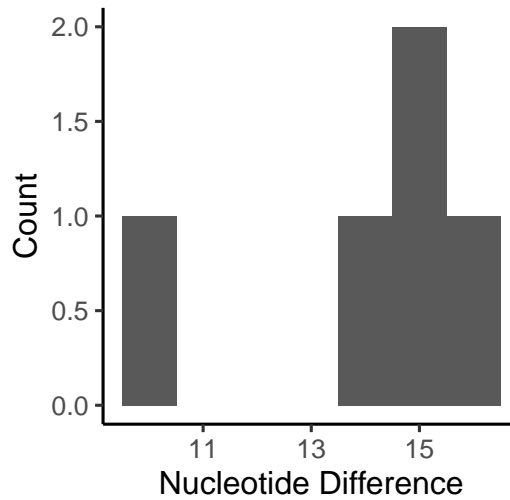
IGHV3-64D*06

571 sequences assigned
249 (43.6%) exact matches, in which:
224 unique CDR3
6 unique J



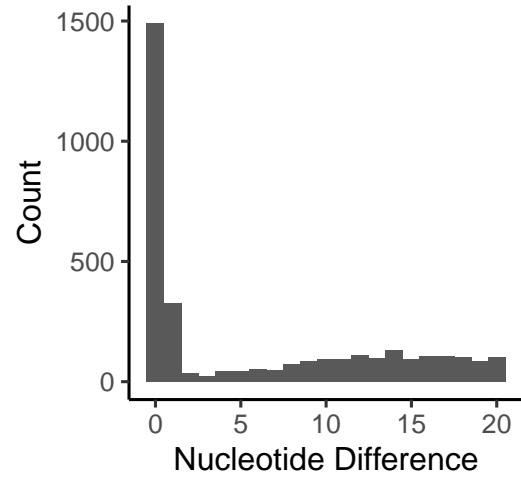
IGHV4-30-4*01

12 sequences assigned
No exact matches.



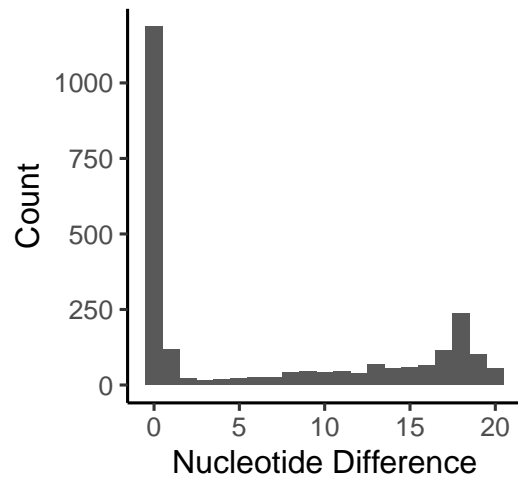
IGHV4-31*03

4063 sequences assigned
1490 (36.7%) exact matches, in which:
1442 unique CDR3
6 unique J



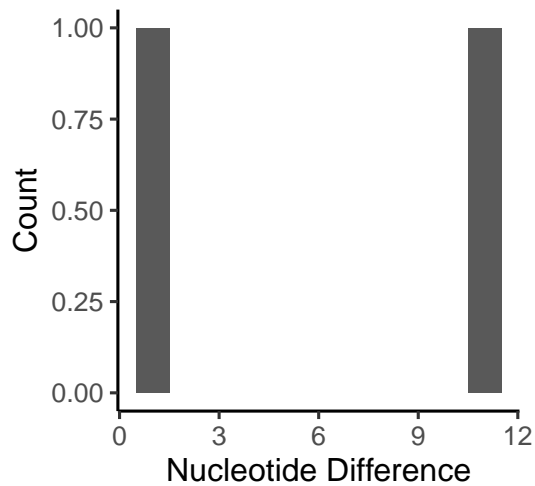
IGHV4-4*02

2792 sequences assigned
1186 (42.5%) exact matches, in which:
1145 unique CDR3
6 unique J



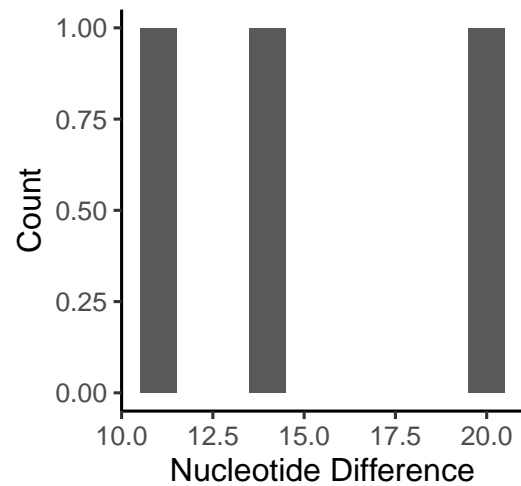
IGHV4-30-2*01

3 sequences assigned
No exact matches.



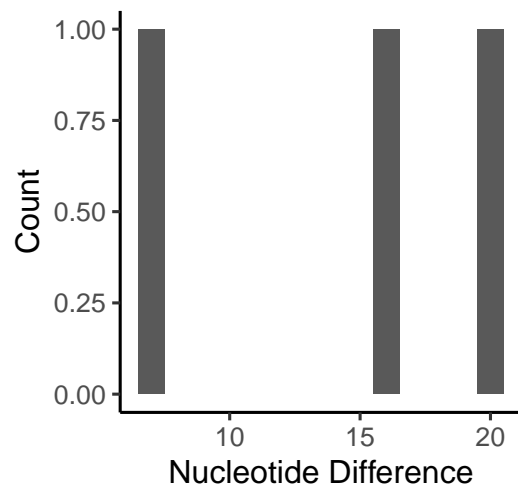
IGHV4-38-2*02

6 sequences assigned
No exact matches.



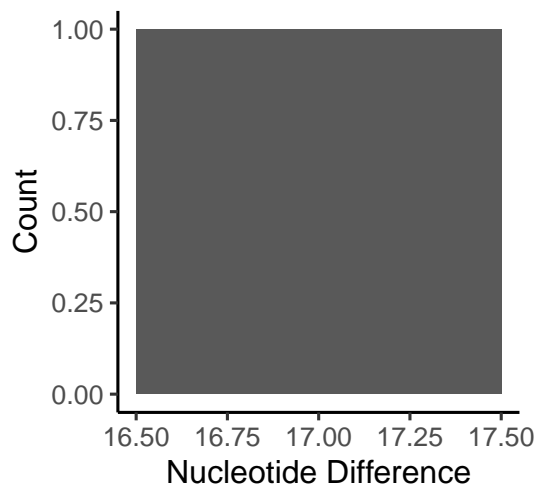
IGHV4-28*03

3 sequences assigned
No exact matches.



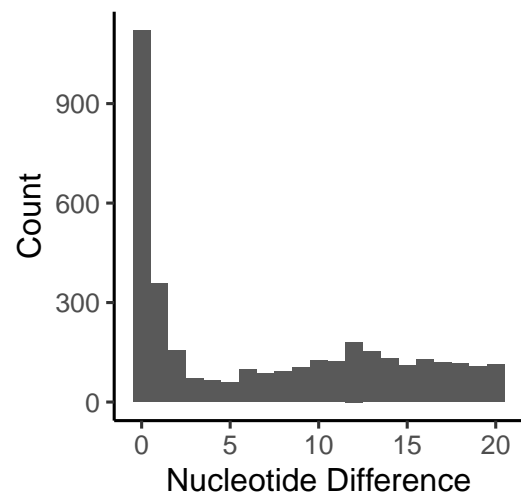
IGHV4-30-4*08

3 sequences assigned
No exact matches.



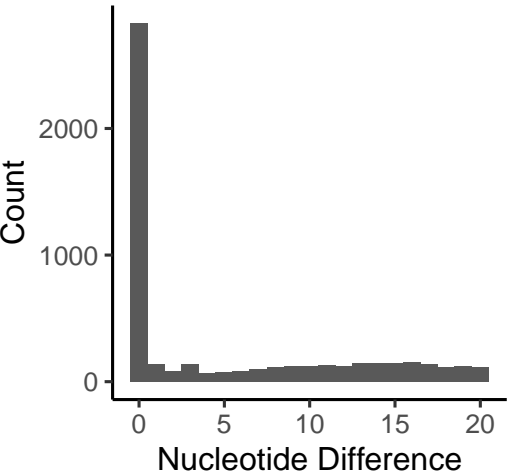
IGHV4-39*01

4765 sequences assigned
1121 (23.5%) exact matches, in which:
1099 unique CDR3
6 unique J



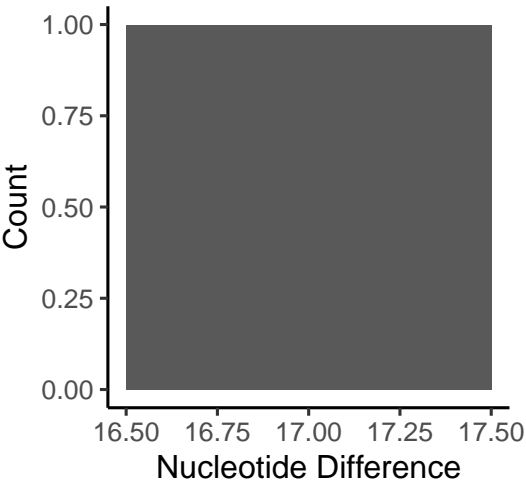
IGHV4–59*01

6197 sequences assigned
2830 (45.7%) exact matches, in which:
2727 unique CDR3
6 unique J



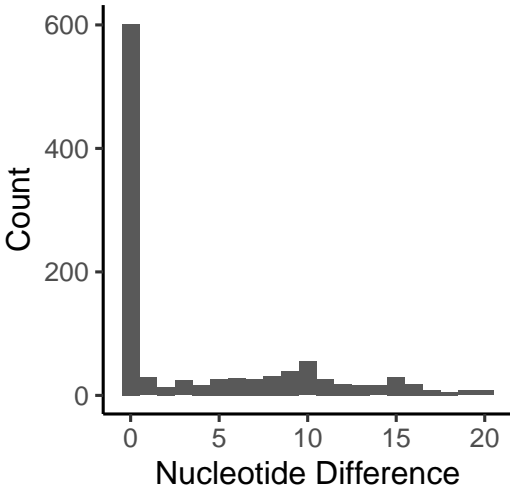
IGHV4/OR15–8*02

2 sequences assigned
No exact matches.



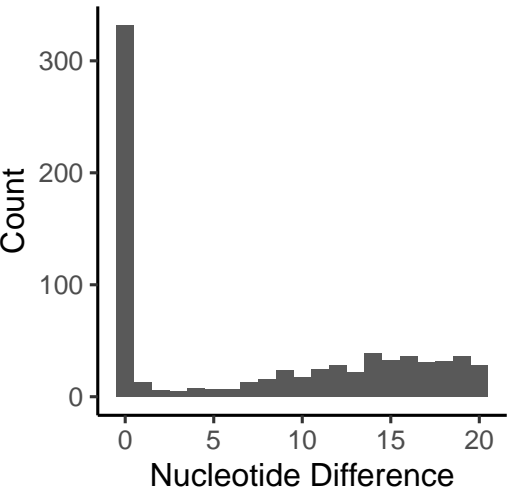
IGHV6–1*01

1088 sequences assigned
602 (55.3%) exact matches, in which:
502 unique CDR3
6 unique J



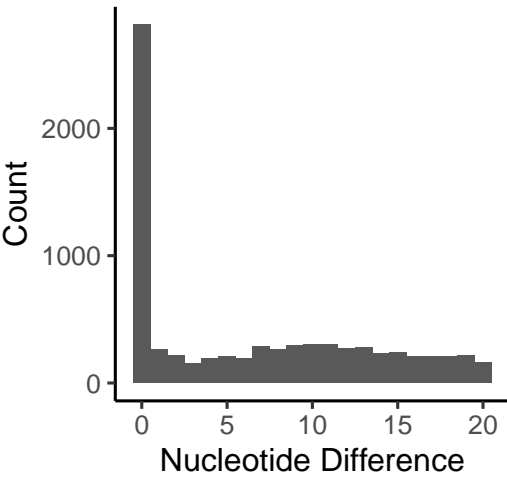
IGHV4–61*01

1045 sequences assigned
332 (31.8%) exact matches, in which:
324 unique CDR3
6 unique J



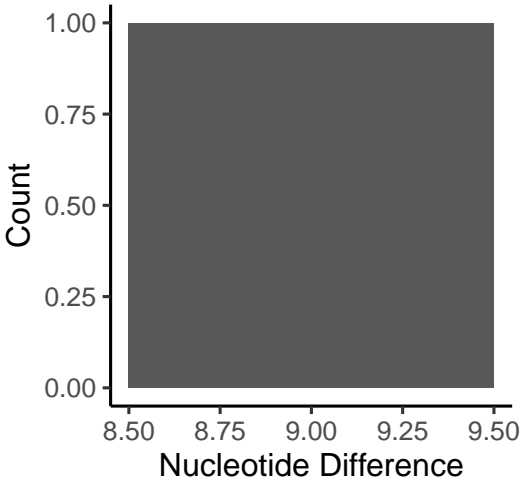
IGHV5–51*01

8571 sequences assigned
2814 (32.8%) exact matches, in which:
2376 unique CDR3
6 unique J



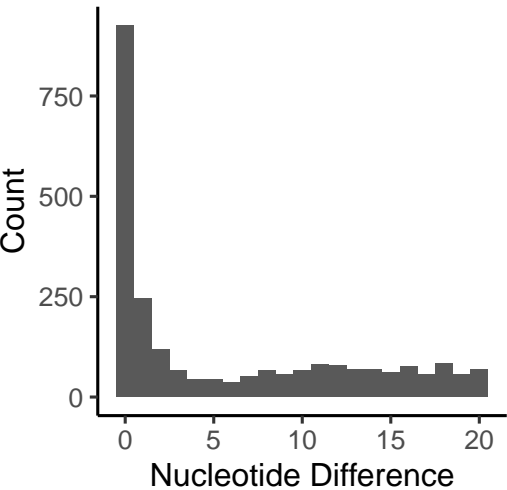
IGHV3/OR16–9*01

1 sequences assigned
No exact matches.



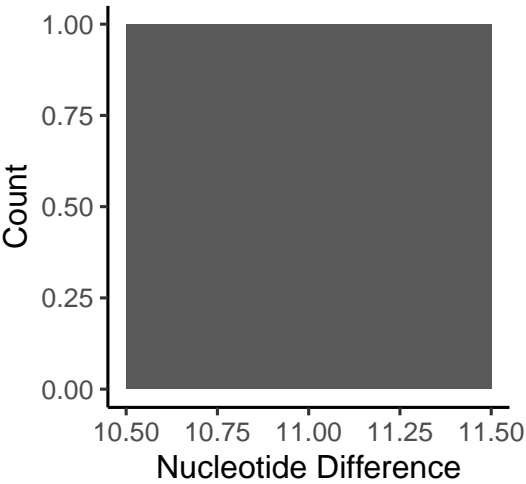
IGHV4–61*02

2847 sequences assigned
926 (32.5%) exact matches, in which:
906 unique CDR3
6 unique J



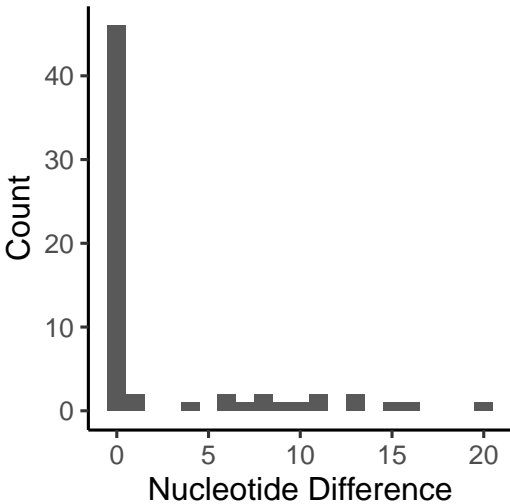
IGHV5–78*01

1 sequences assigned
No exact matches.



IGHV7–4–1*01

65 sequences assigned
46 (70.8%) exact matches, in which:
38 unique CDR3
5 unique J





Warning – no inferred sequences found.

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