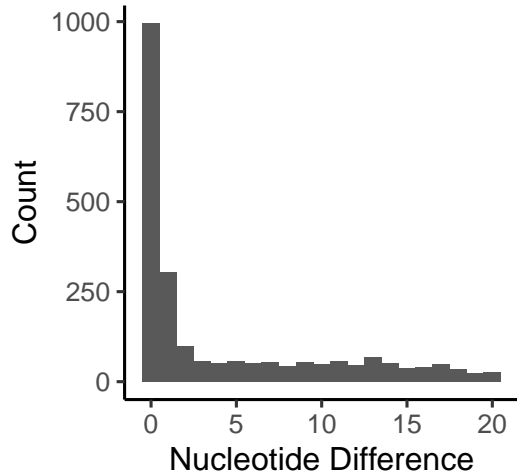


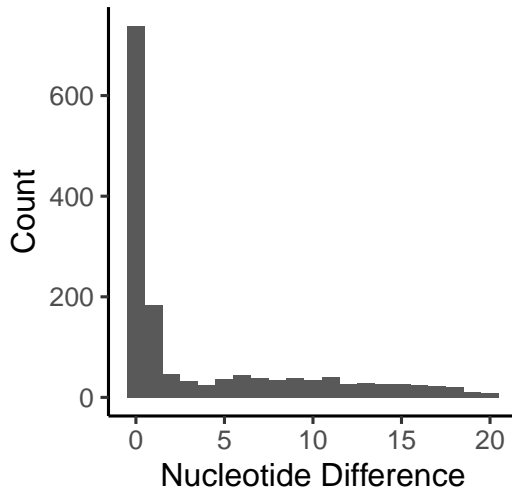
IGHV1-2*02

2465 sequences assigned
995 (40.4%) exact matches, in which:
986 unique CDR3
6 unique J



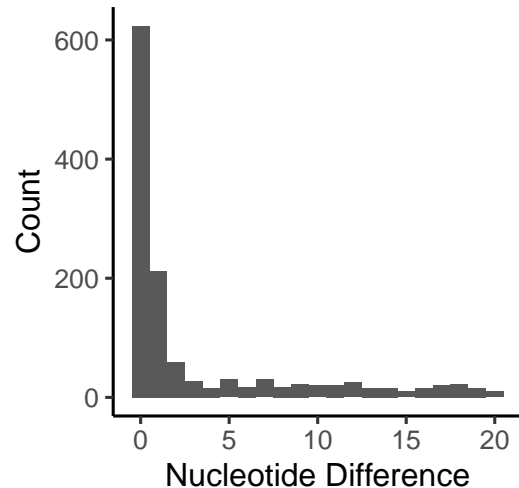
IGHV1-18*01

1655 sequences assigned
739 (44.7%) exact matches, in which:
728 unique CDR3
6 unique J



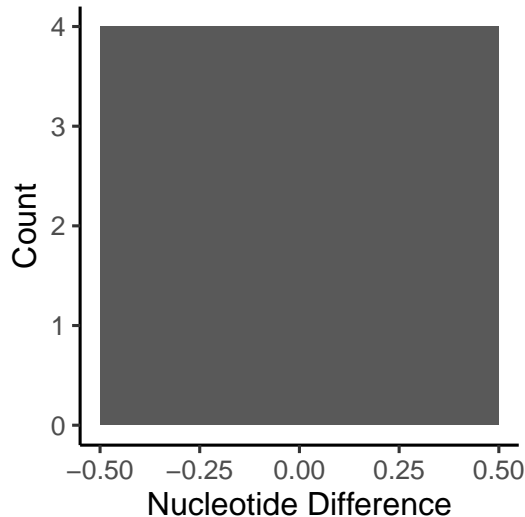
IGHV1-46*01

1367 sequences assigned
624 (45.6%) exact matches, in which:
613 unique CDR3
6 unique J



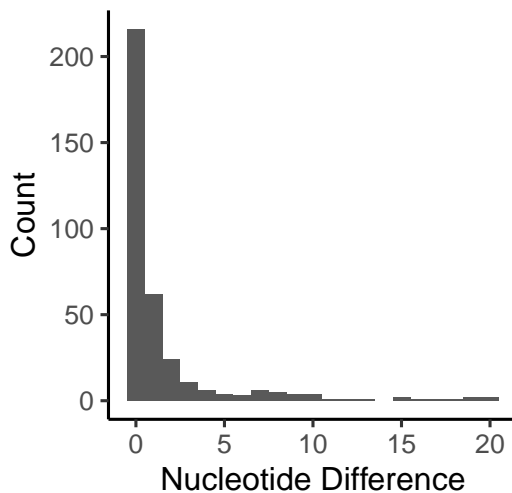
IGHV1-3*02

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



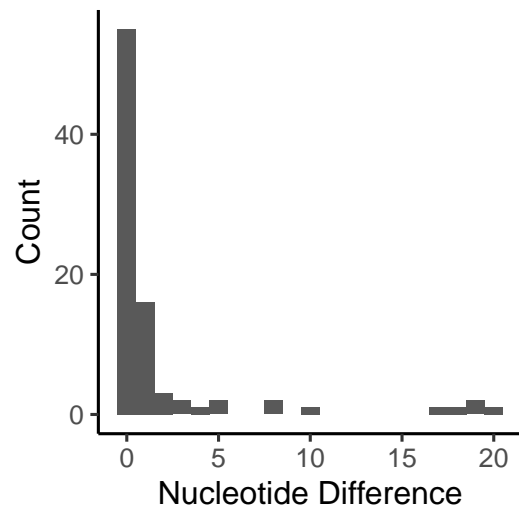
IGHV1-24*01

405 sequences assigned
216 (53.3%) exact matches, in which:
209 unique CDR3
6 unique J



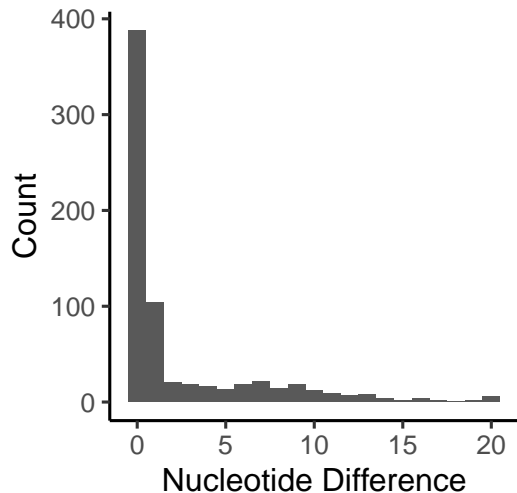
IGHV1-58*01

97 sequences assigned
55 (56.7%) exact matches, in which:
55 unique CDR3
4 unique J



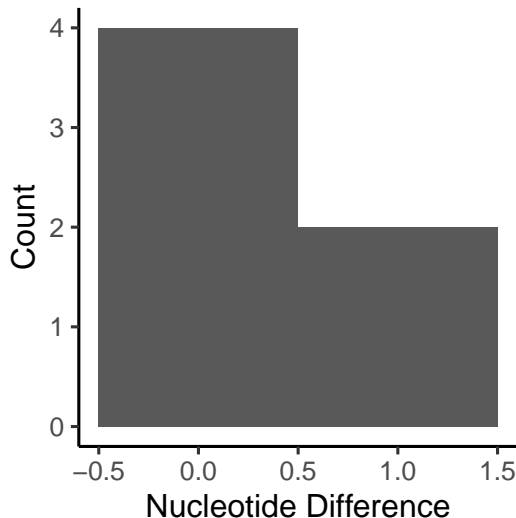
IGHV1-8*01

726 sequences assigned
388 (53.4%) exact matches, in which:
383 unique CDR3
6 unique J



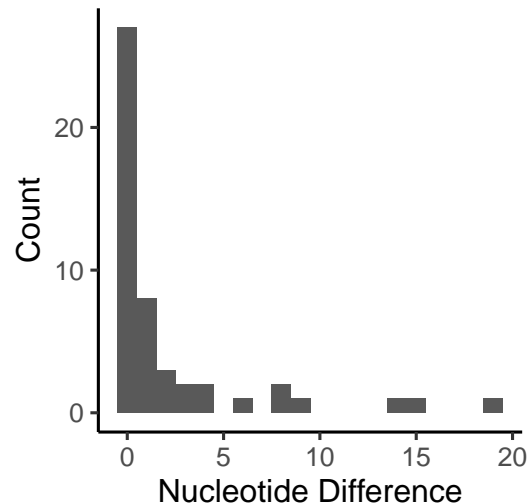
IGHV1-45*02

6 sequences assigned
4 (66.7%) exact matches, in which:
4 unique CDR3
2 unique J



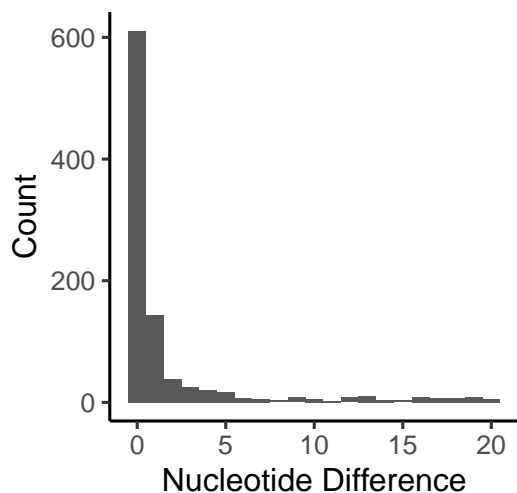
IGHV1-58*02

50 sequences assigned
27 (54%) exact matches, in which:
27 unique CDR3
5 unique J



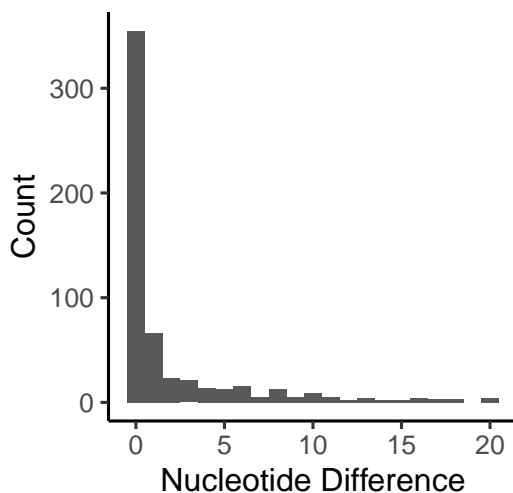
IGHV1–69*04

1004 sequences assigned
611 (60.9%) exact matches, in which:
584 unique CDR3
6 unique J



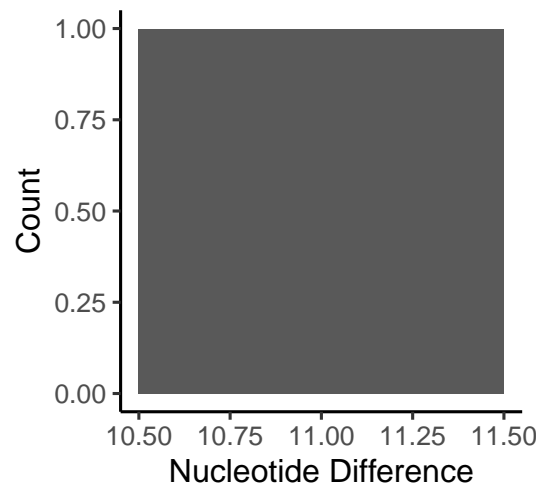
IGHV2–26*01

601 sequences assigned
355 (59.1%) exact matches, in which:
351 unique CDR3
6 unique J



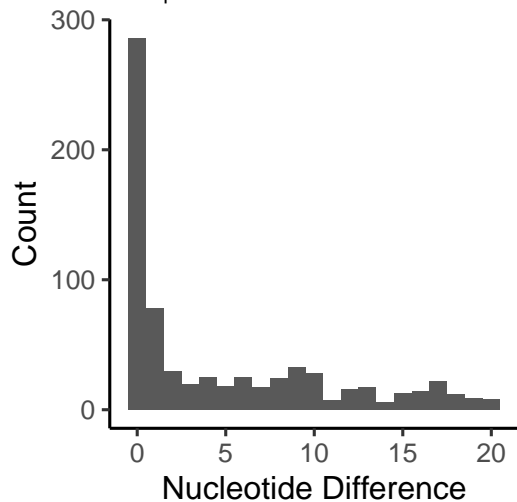
IGHV2–70D*04

1 sequences assigned
No exact matches.



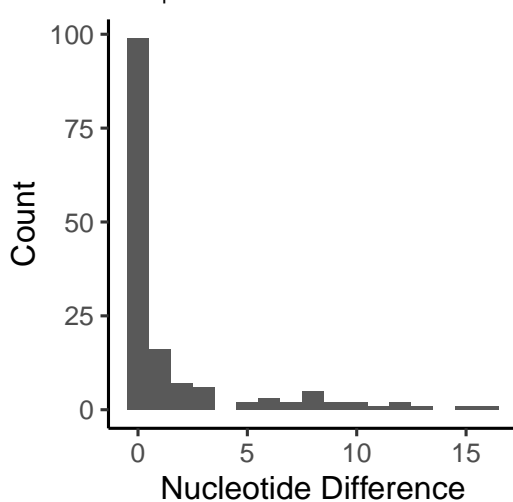
IGHV2–5*01

764 sequences assigned
286 (37.4%) exact matches, in which:
277 unique CDR3
6 unique J



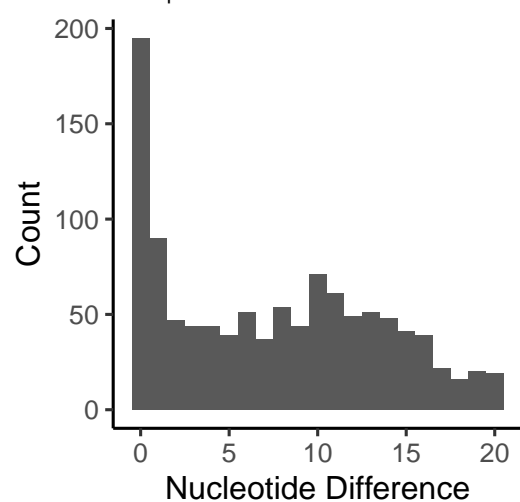
IGHV2–70*01

162 sequences assigned
99 (61.1%) exact matches, in which:
98 unique CDR3
6 unique J



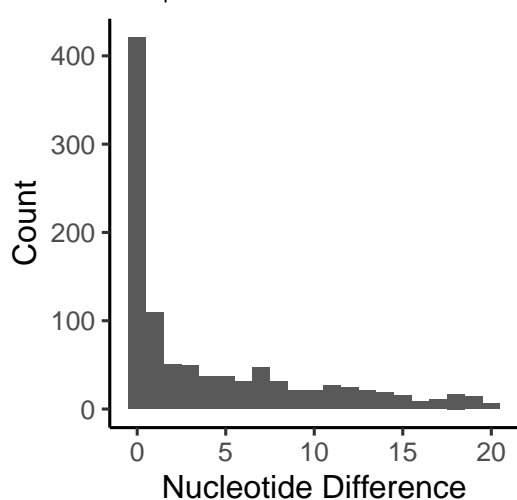
IGHV3–7*01

1222 sequences assigned
195 (16%) exact matches, in which:
191 unique CDR3
6 unique J



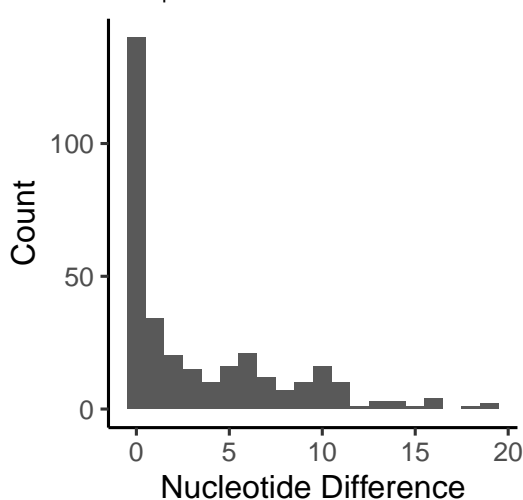
IGHV2–5*02

1085 sequences assigned
421 (38.8%) exact matches, in which:
417 unique CDR3
6 unique J



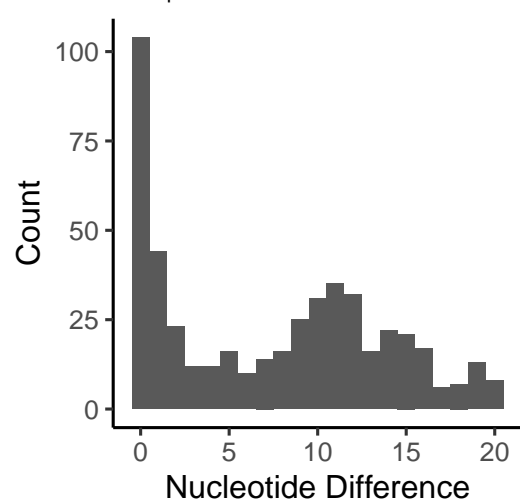
IGHV2–70*15

338 sequences assigned
140 (41.4%) exact matches, in which:
138 unique CDR3
5 unique J



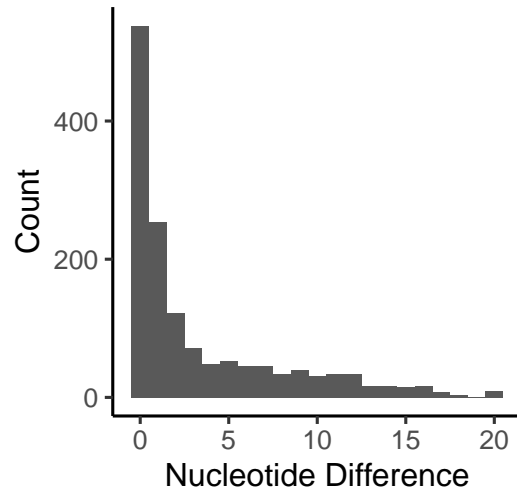
IGHV3–7*04

551 sequences assigned
104 (18.9%) exact matches, in which:
102 unique CDR3
5 unique J



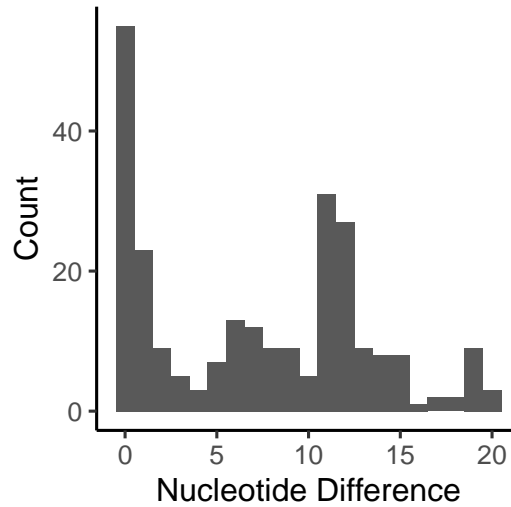
IGHV3-9*01

1506 sequences assigned
538 (35.7%) exact matches, in which:
525 unique CDR3
6 unique J



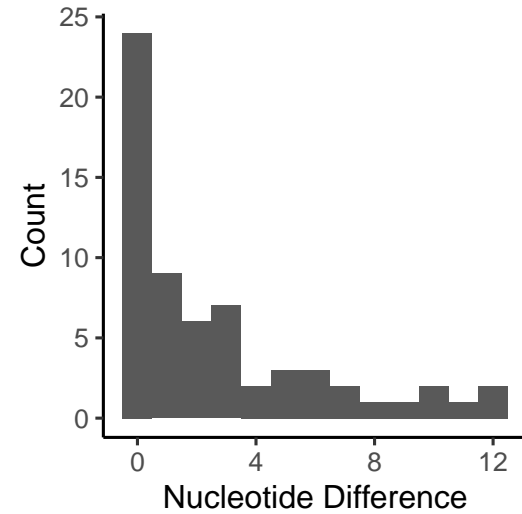
IGHV3-13*01

276 sequences assigned
55 (19.9%) exact matches, in which:
55 unique CDR3
6 unique J



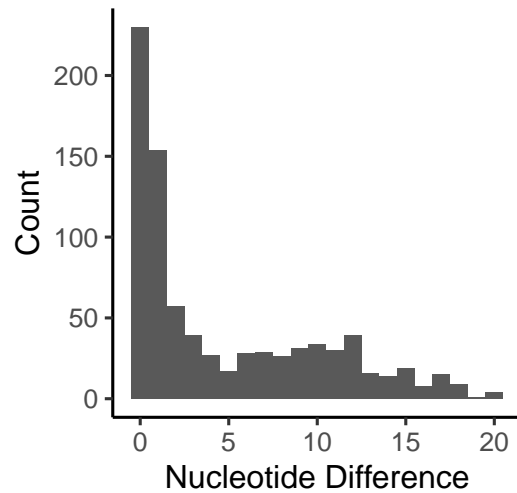
IGHV3-20*01

78 sequences assigned
24 (30.8%) exact matches, in which:
24 unique CDR3
5 unique J



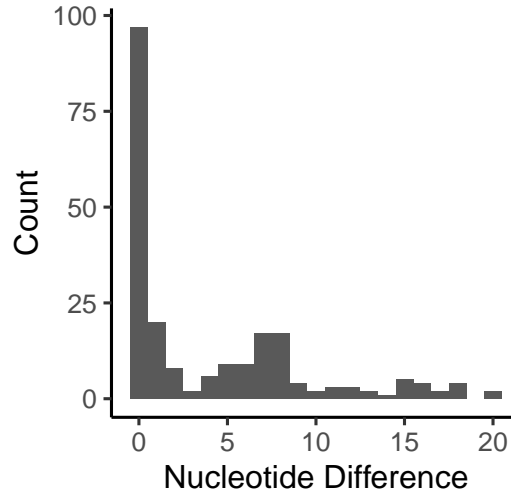
IGHV3-11*01

941 sequences assigned
230 (24.4%) exact matches, in which:
227 unique CDR3
6 unique J



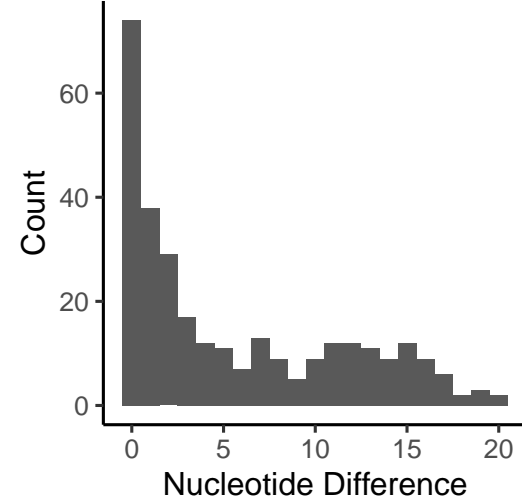
IGHV3-13*04

238 sequences assigned
97 (40.8%) exact matches, in which:
96 unique CDR3
5 unique J



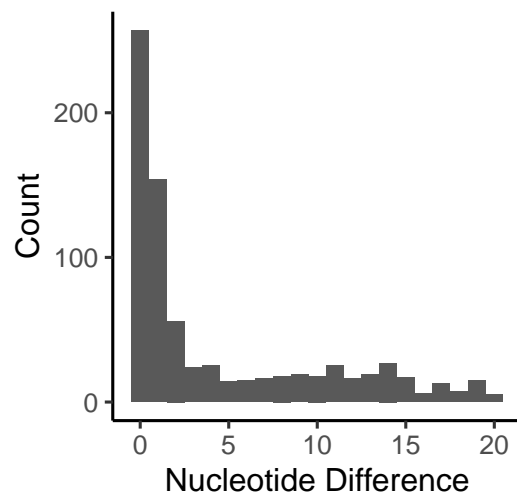
IGHV3-20*04

337 sequences assigned
74 (22%) exact matches, in which:
74 unique CDR3
5 unique J



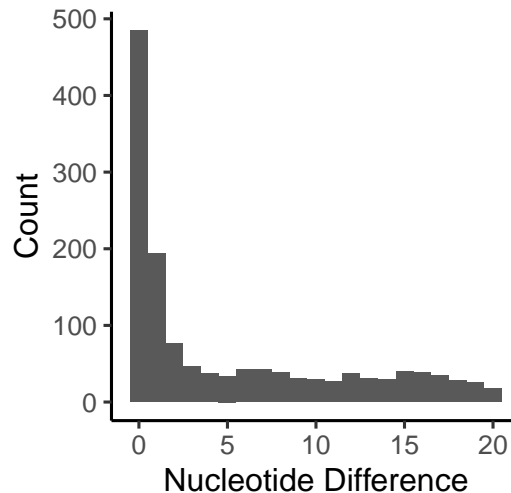
IGHV3-11*05

821 sequences assigned
257 (31.3%) exact matches, in which:
254 unique CDR3
6 unique J



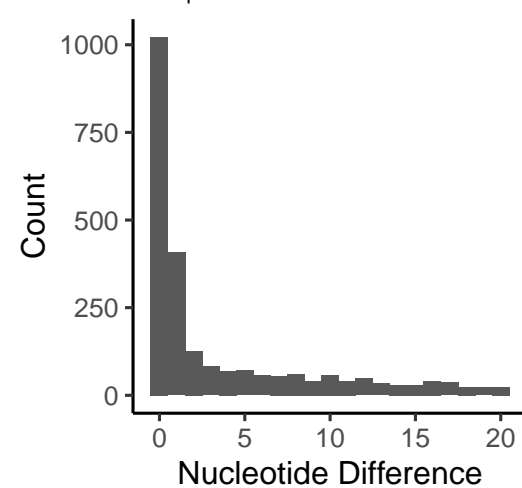
IGHV3-15*01

1496 sequences assigned
485 (32.4%) exact matches, in which:
479 unique CDR3
6 unique J



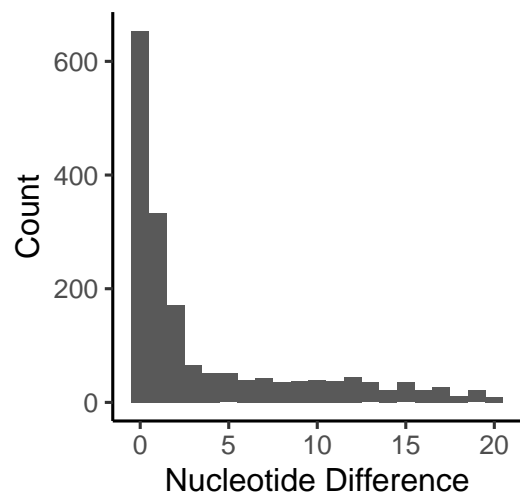
IGHV3-21*01

2618 sequences assigned
1022 (39%) exact matches, in which:
1007 unique CDR3
6 unique J



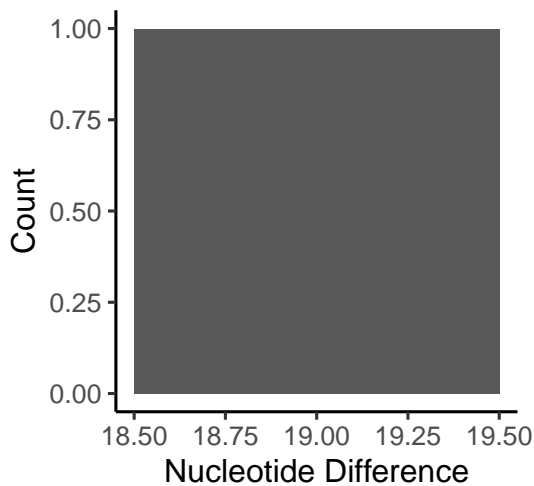
IGHV3-30-3*01

1964 sequences assigned
654 (33.3%) exact matches, in which:
640 unique CDR3
6 unique J



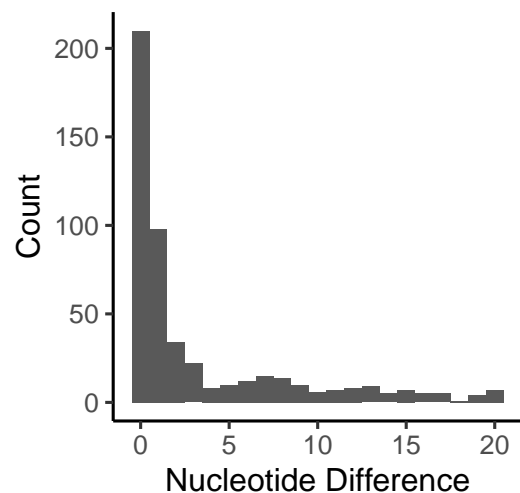
IGHV3-41*02

1 sequences assigned
No exact matches.



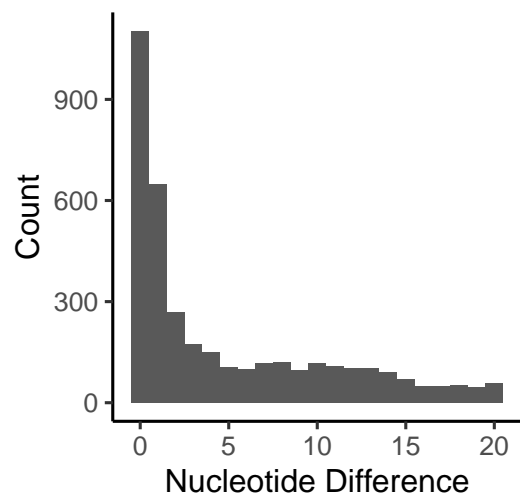
IGHV3-49*05

560 sequences assigned
210 (37.5%) exact matches, in which:
207 unique CDR3
6 unique J



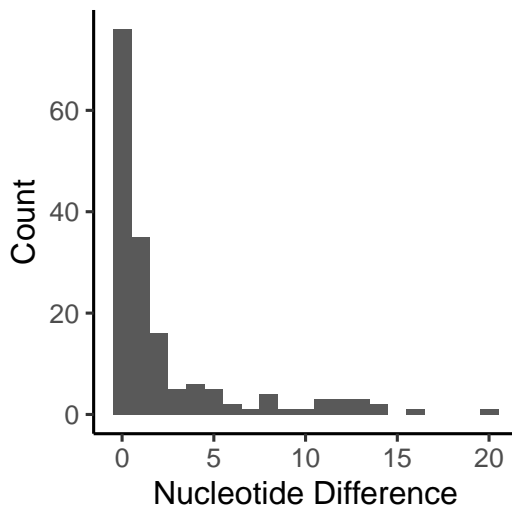
IGHV3-33*01

3983 sequences assigned
1103 (27.7%) exact matches, in which:
1073 unique CDR3
6 unique J



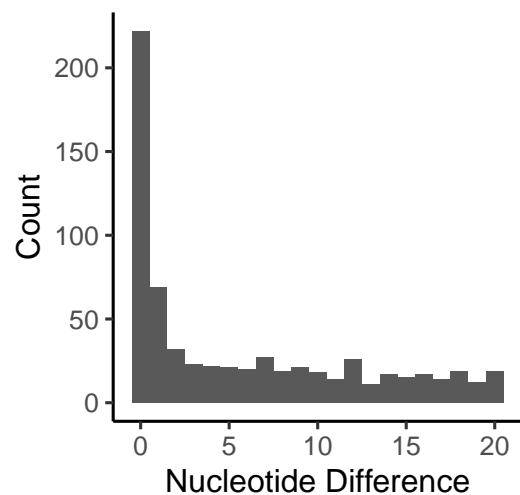
IGHV3-43*01

179 sequences assigned
76 (42.5%) exact matches, in which:
74 unique CDR3
5 unique J



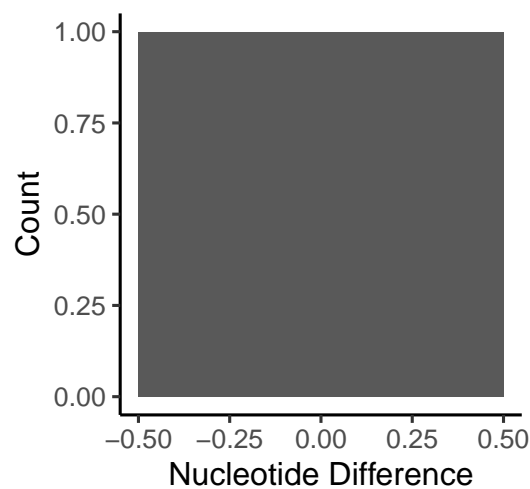
IGHV3-53*01

820 sequences assigned
222 (27.1%) exact matches, in which:
218 unique CDR3
6 unique J



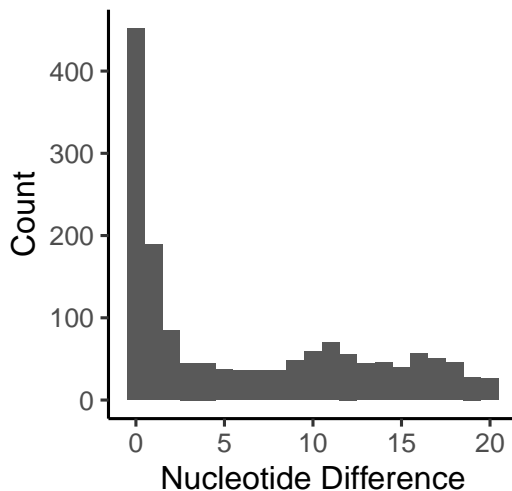
IGHV3-35*01

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



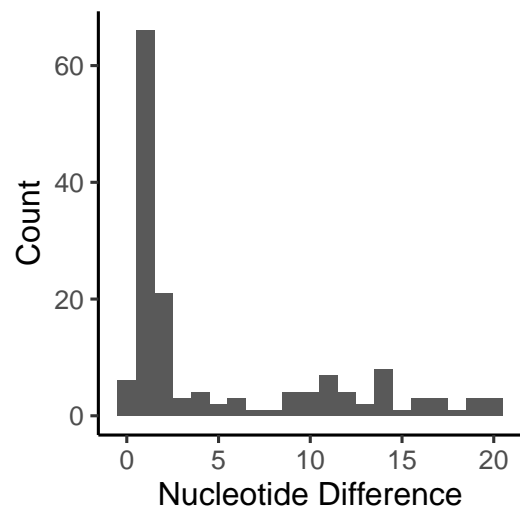
IGHV3-48*02

1784 sequences assigned
452 (25.3%) exact matches, in which:
448 unique CDR3
6 unique J



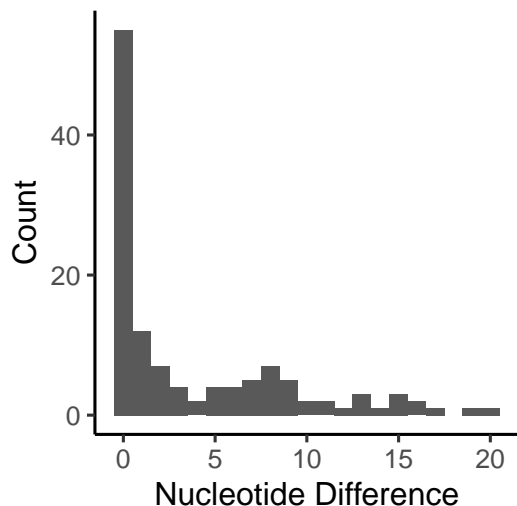
IGHV3-53*04

160 sequences assigned
6 (3.8%) exact matches, in which:
6 unique CDR3
3 unique J



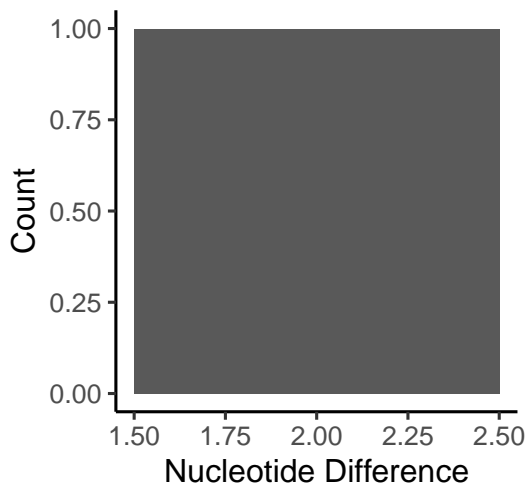
IGHV3-64*01

138 sequences assigned
55 (39.9%) exact matches, in which:
54 unique CDR3
6 unique J



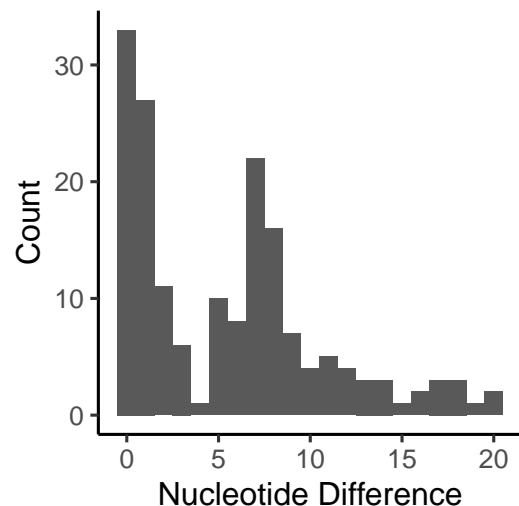
IGHV3-69-1*02

2 sequences assigned
No exact matches.



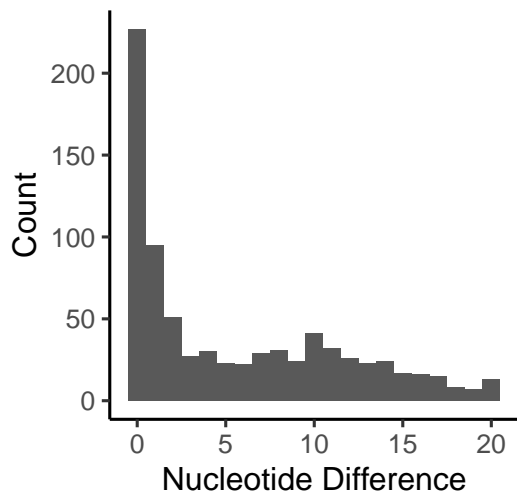
IGHV3-73*01

178 sequences assigned
33 (18.5%) exact matches, in which:
33 unique CDR3
6 unique J



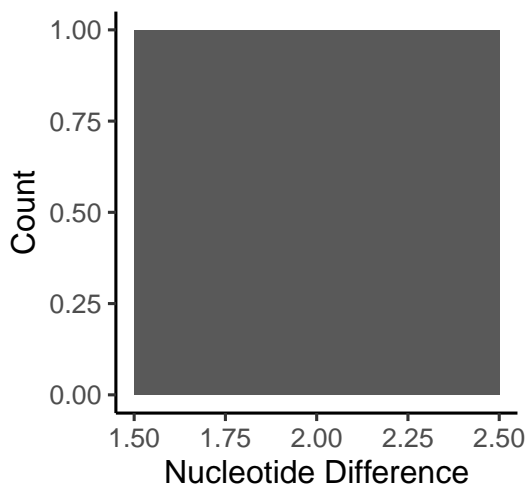
IGHV3-66*01

861 sequences assigned
227 (26.4%) exact matches, in which:
227 unique CDR3
6 unique J



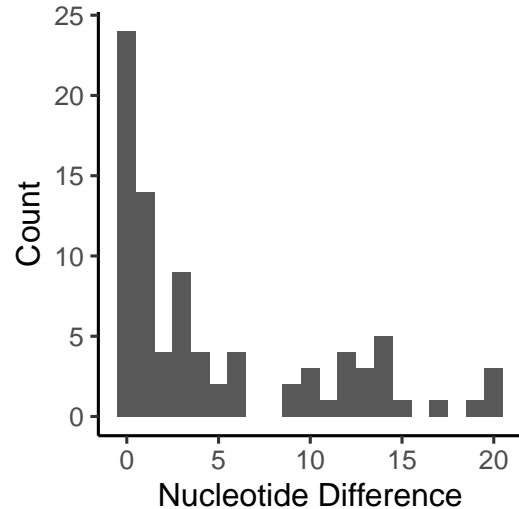
IGHV3-71*03

1 sequences assigned
No exact matches.



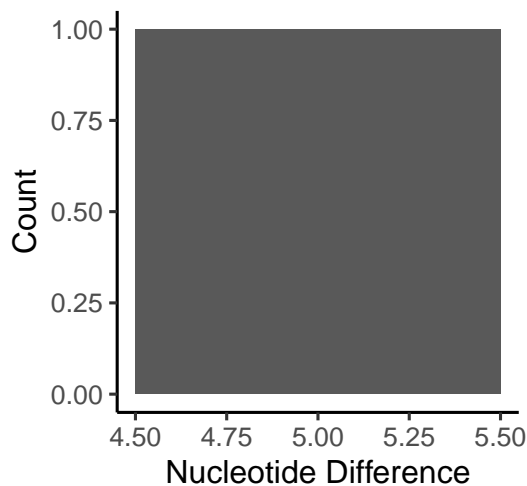
IGHV3-73*02

88 sequences assigned
24 (27.3%) exact matches, in which:
24 unique CDR3
5 unique J



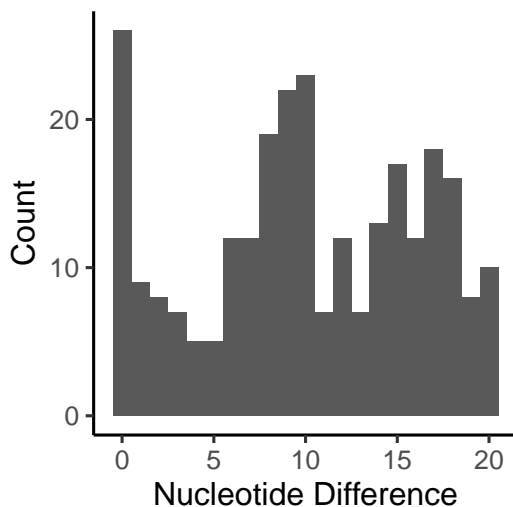
IGHV3-69-1*01

1 sequences assigned
No exact matches.



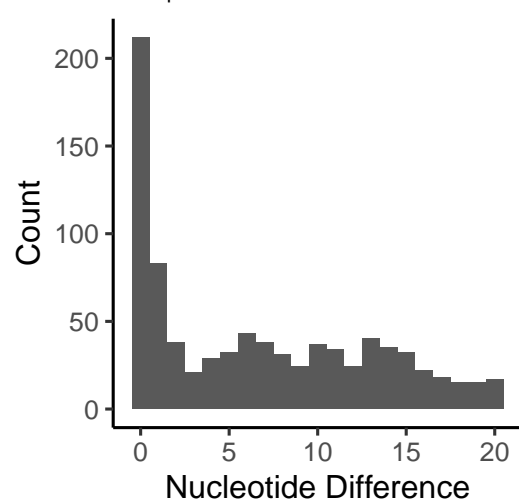
IGHV3-72*01

309 sequences assigned
26 (8.4%) exact matches, in which:
24 unique CDR3
6 unique J



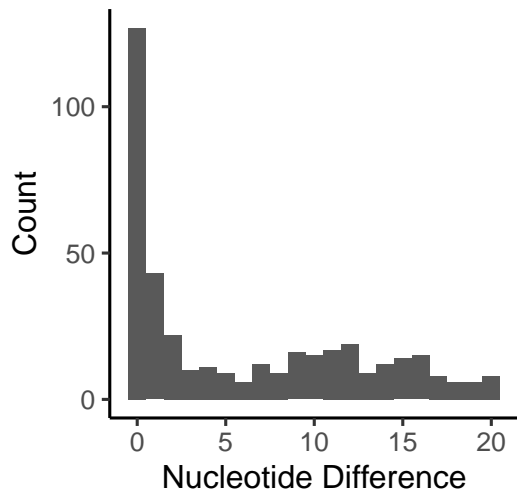
IGHV3-74*01

967 sequences assigned
212 (21.9%) exact matches, in which:
208 unique CDR3
6 unique J



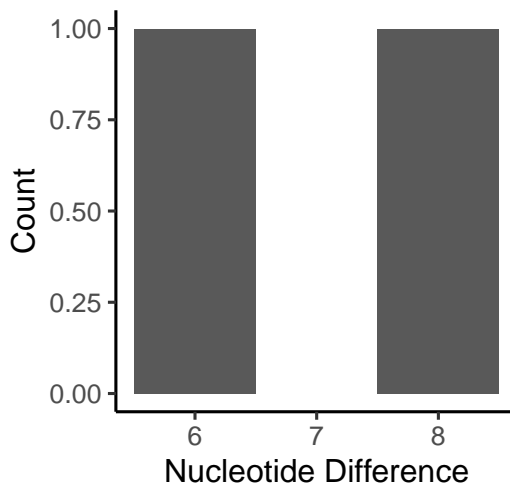
IGHV3–64D*06

443 sequences assigned
127 (28.7%) exact matches, in which:
124 unique CDR3
6 unique J



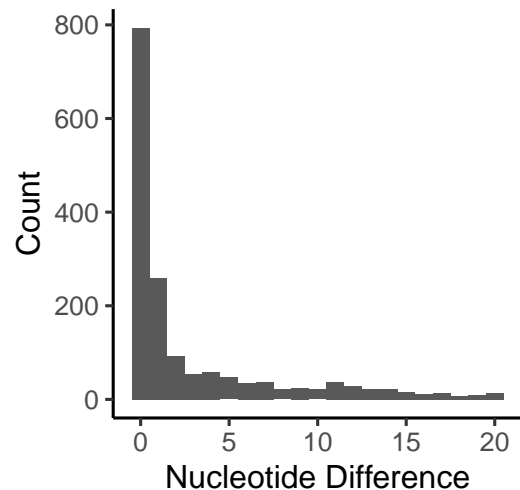
IGHV4–28*03

2 sequences assigned
No exact matches.



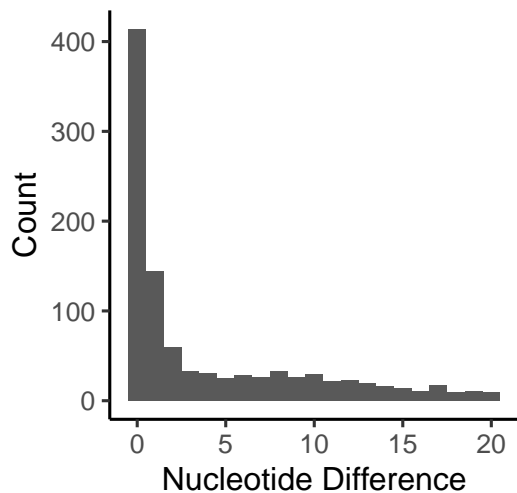
IGHV4–31*03

1797 sequences assigned
794 (44.2%) exact matches, in which:
778 unique CDR3
6 unique J



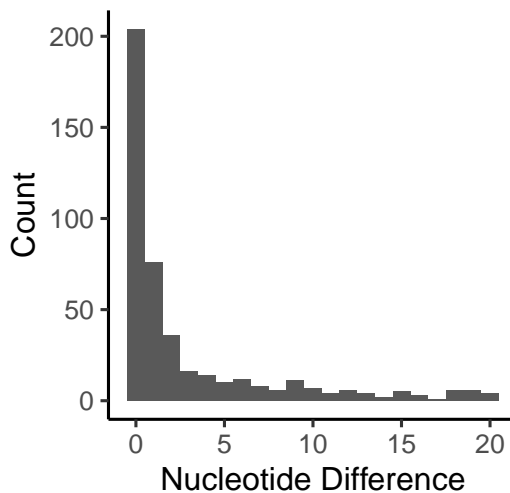
IGHV4–4*07

1068 sequences assigned
414 (38.8%) exact matches, in which:
409 unique CDR3
6 unique J



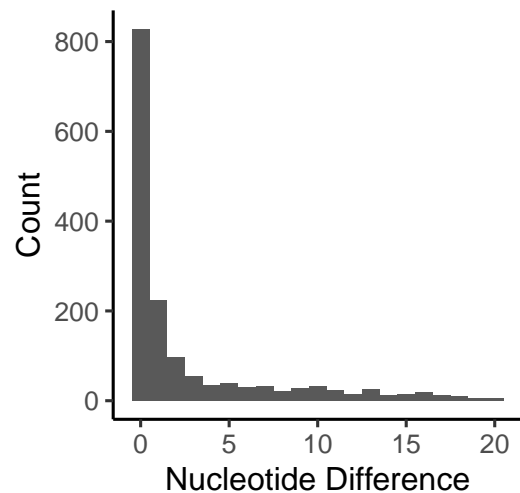
IGHV4–30–4*01

482 sequences assigned
204 (42.3%) exact matches, in which:
203 unique CDR3
6 unique J



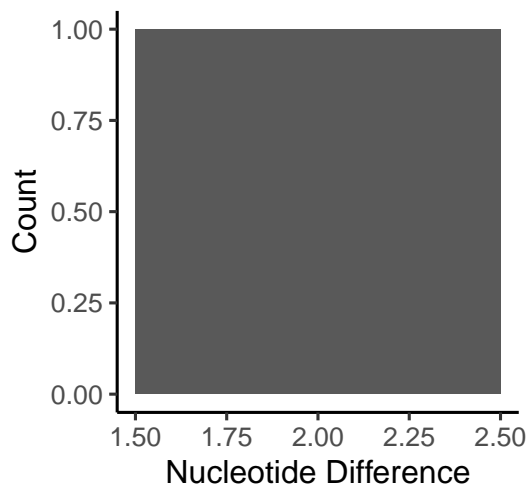
IGHV4–34*01

1630 sequences assigned
828 (50.8%) exact matches, in which:
810 unique CDR3
6 unique J



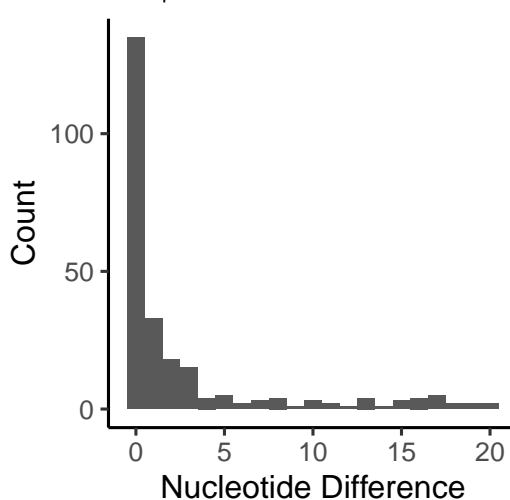
IGHV4–28*01

1 sequences assigned
No exact matches.



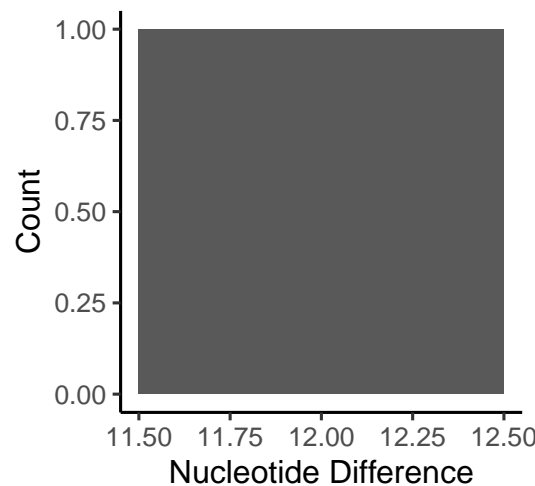
IGHV4–30–2*01

272 sequences assigned
135 (49.6%) exact matches, in which:
134 unique CDR3
6 unique J



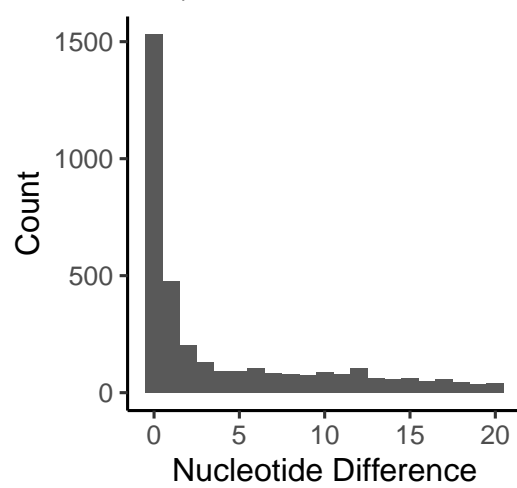
IGHV4–38–2*02

4 sequences assigned
No exact matches.



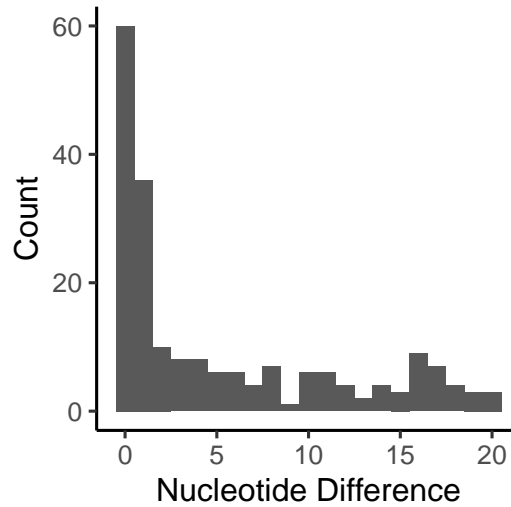
IGHV4-39*01

4210 sequences assigned
1531 (36.4%) exact matches, in which:
1495 unique CDR3
6 unique J



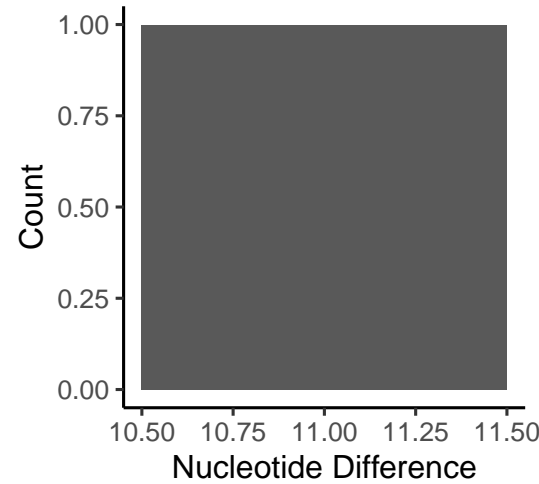
IGHV4-61*01

224 sequences assigned
60 (26.8%) exact matches, in which:
60 unique CDR3
5 unique J



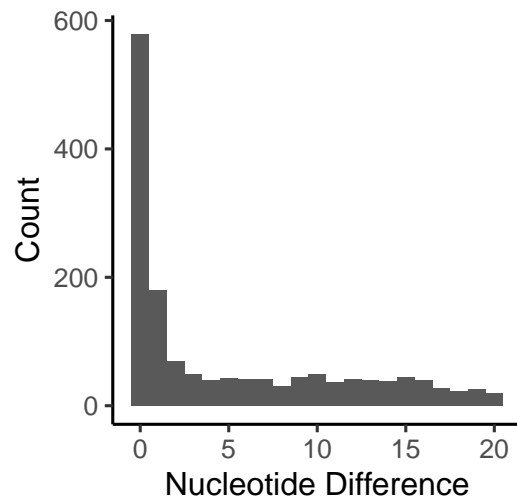
IGHV5-78*01

2 sequences assigned
No exact matches.



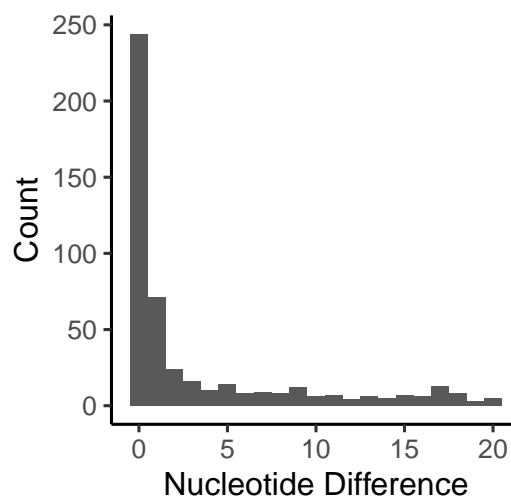
IGHV4-59*01

1691 sequences assigned
579 (34.2%) exact matches, in which:
573 unique CDR3
6 unique J



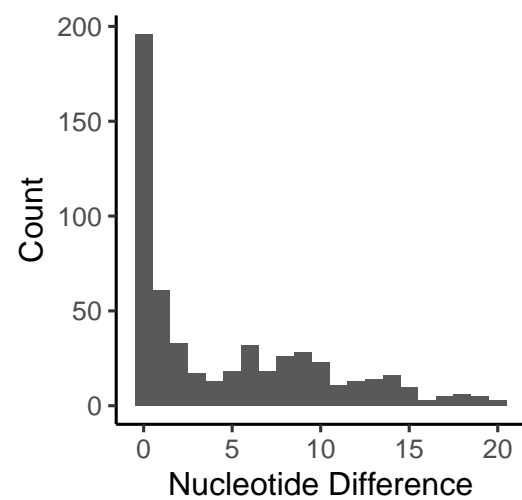
IGHV5-10-1*01

502 sequences assigned
244 (48.6%) exact matches, in which:
234 unique CDR3
6 unique J



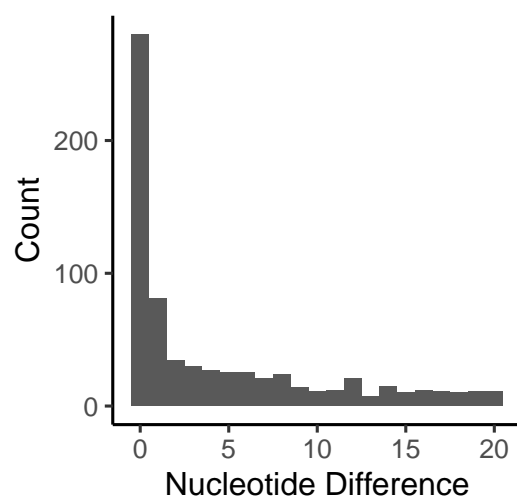
IGHV6-1*01

566 sequences assigned
196 (34.6%) exact matches, in which:
191 unique CDR3
5 unique J



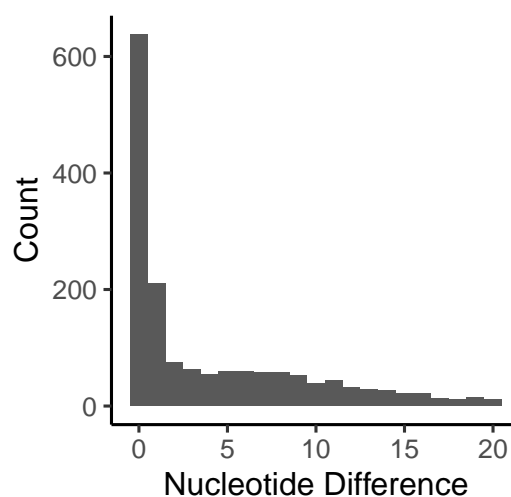
IGHV4-59*08

751 sequences assigned
280 (37.3%) exact matches, in which:
277 unique CDR3
6 unique J



IGHV5-51*01

1713 sequences assigned
638 (37.2%) exact matches, in which:
622 unique CDR3
6 unique J





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

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