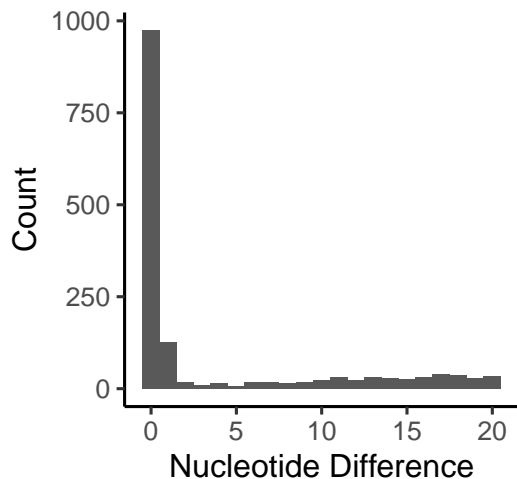


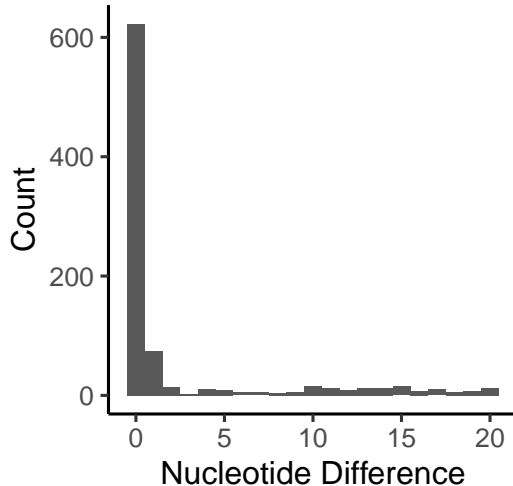
IGHV1-2*02

2044 sequences assigned
974 (47.7%) exact matches, in which:
966 unique CDR3
6 unique J



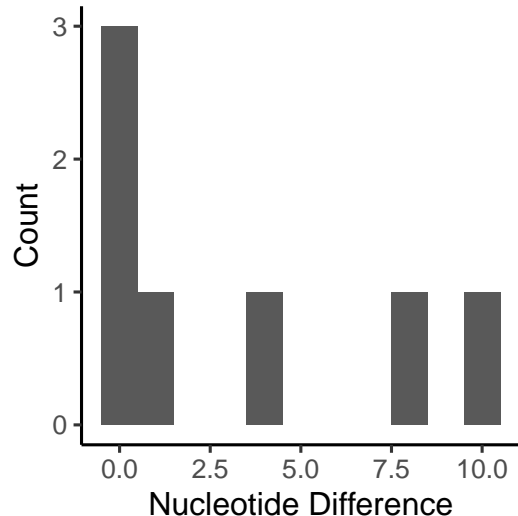
IGHV1-8*01

1053 sequences assigned
623 (59.2%) exact matches, in which:
623 unique CDR3
6 unique J



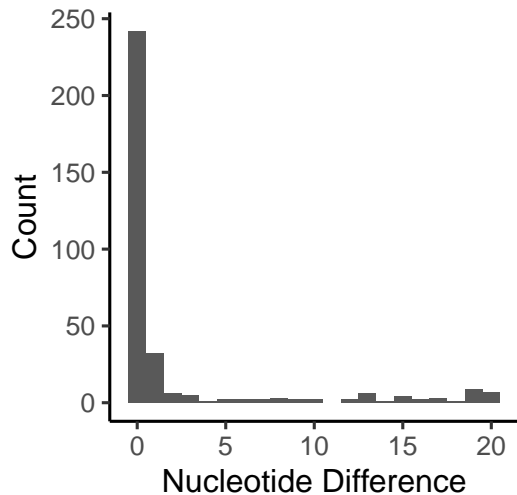
IGHV1-45*02

52 sequences assigned
3 (5.8%) exact matches, in which:
3 unique CDR3
2 unique J



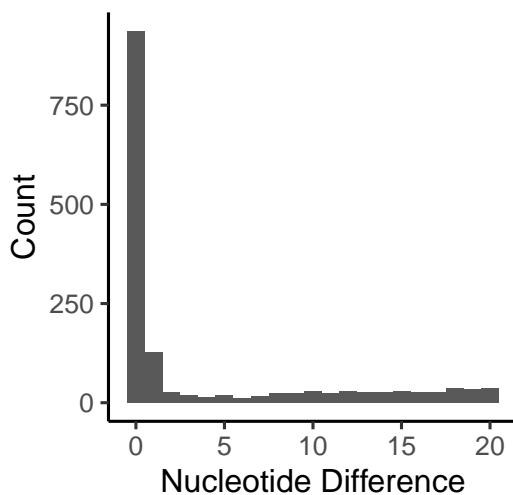
IGHV1-2*04

358 sequences assigned
242 (67.6%) exact matches, in which:
241 unique CDR3
5 unique J



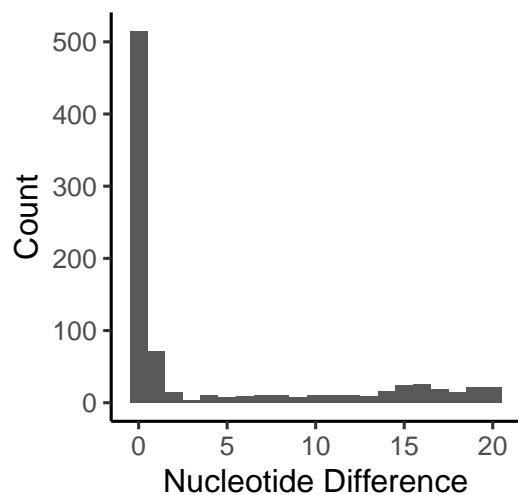
IGHV1-18*01

2044 sequences assigned
937 (45.8%) exact matches, in which:
932 unique CDR3
6 unique J



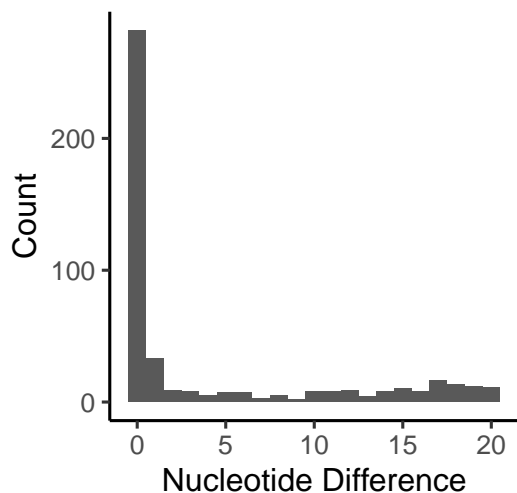
IGHV1-46*01

1303 sequences assigned
515 (39.5%) exact matches, in which:
513 unique CDR3
6 unique J



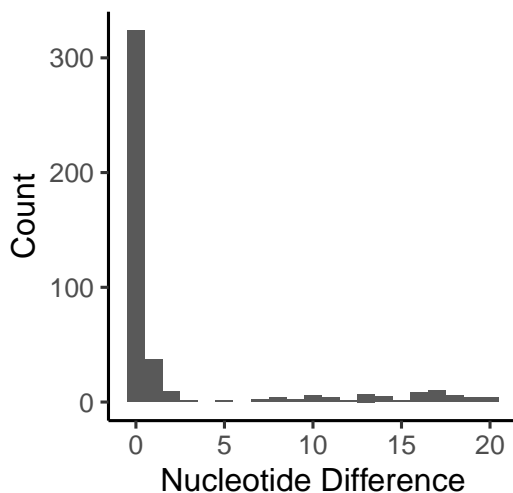
IGHV1-3*01

752 sequences assigned
282 (37.5%) exact matches, in which:
278 unique CDR3
6 unique J



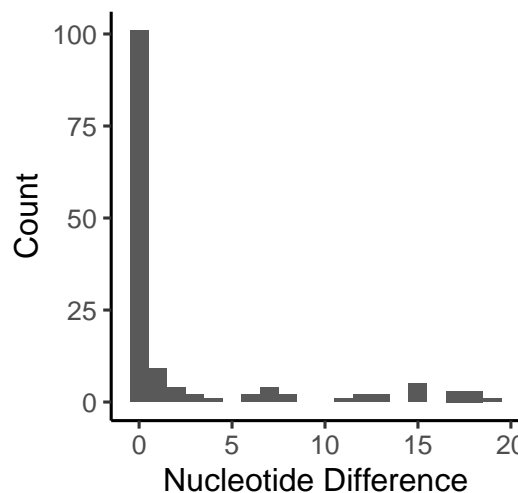
IGHV1-24*01

515 sequences assigned
324 (62.9%) exact matches, in which:
323 unique CDR3
6 unique J



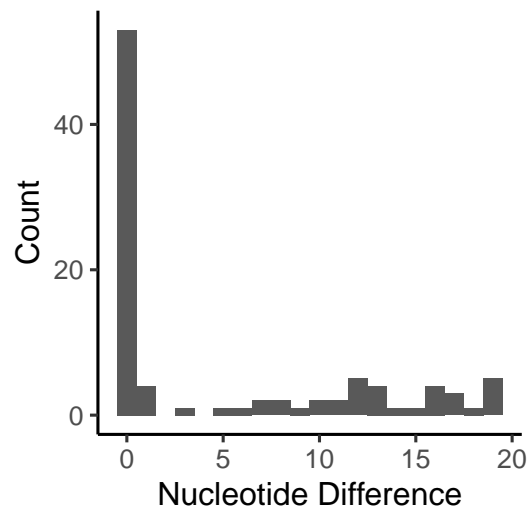
IGHV1-58*02

165 sequences assigned
101 (61.2%) exact matches, in which:
101 unique CDR3
6 unique J



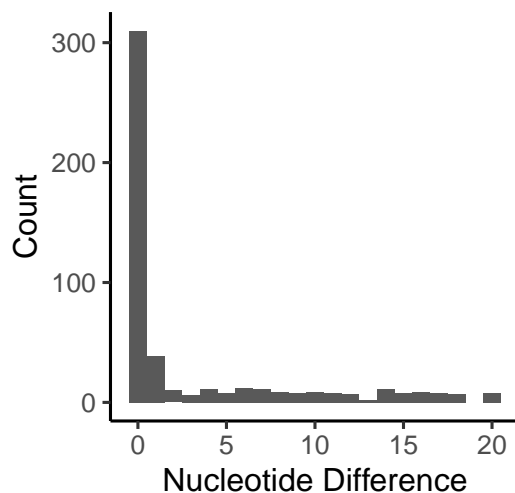
IGHV1-69-2*01

153 sequences assigned
53 (34.6%) exact matches, in which:
53 unique CDR3
4 unique J



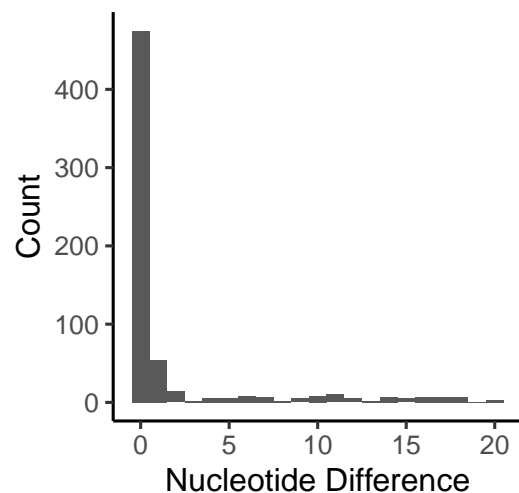
IGHV2-5*01

566 sequences assigned
310 (54.8%) exact matches, in which:
310 unique CDR3
6 unique J



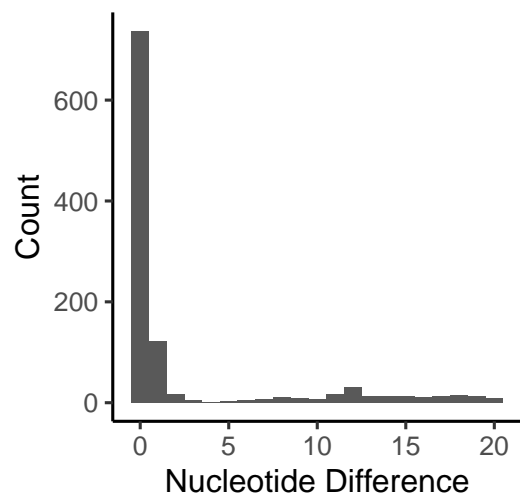
IGHV2-26*01

682 sequences assigned
475 (69.6%) exact matches, in which:
473 unique CDR3
6 unique J



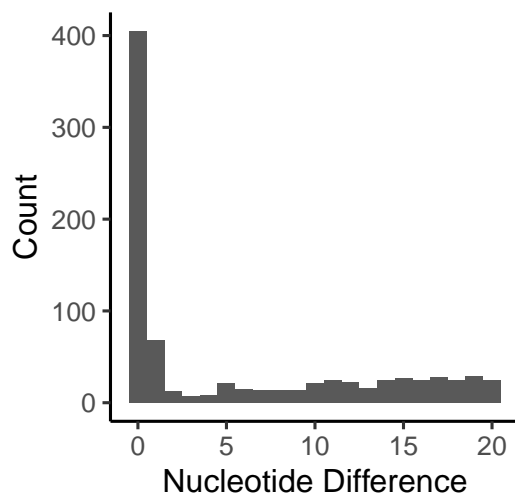
IGHV1-69*06

1327 sequences assigned
737 (55.5%) exact matches, in which:
736 unique CDR3
6 unique J



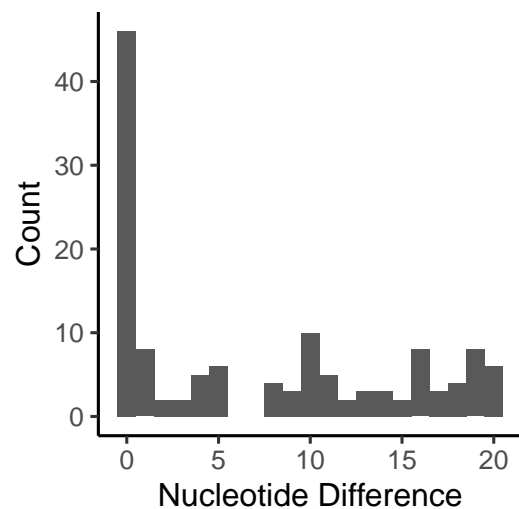
IGHV2-5*02

1048 sequences assigned
405 (38.6%) exact matches, in which:
402 unique CDR3
6 unique J



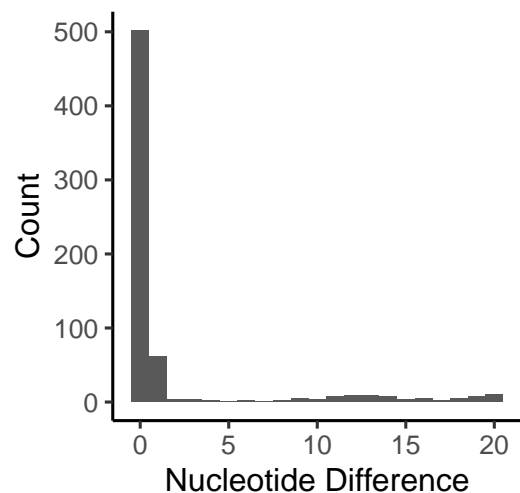
IGHV2-70*01

174 sequences assigned
46 (26.4%) exact matches, in which:
46 unique CDR3
5 unique J



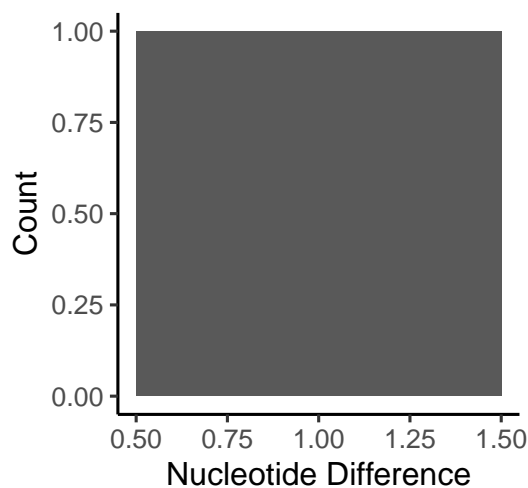
IGHV1-69*08_C191T

802 sequences assigned
502 (62.6%) exact matches, in which:
498 unique CDR3
6 unique J



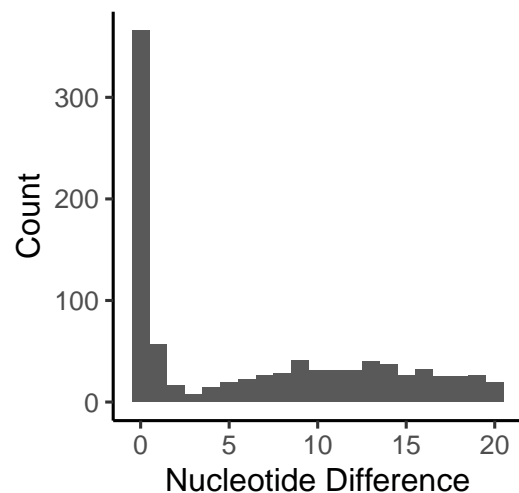
IGHV2-10*01

1 sequences assigned
No exact matches.



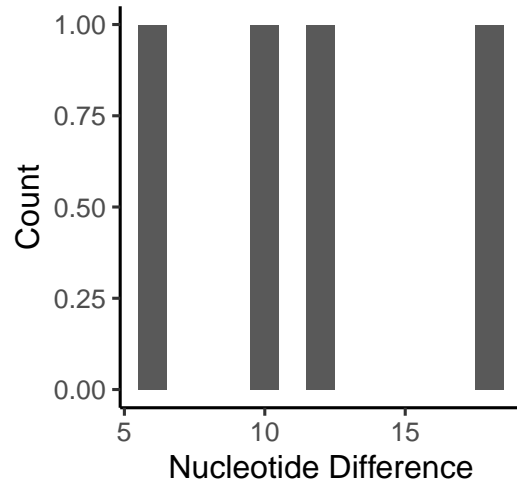
IGHV3-7*01

1216 sequences assigned
366 (30.1%) exact matches, in which:
362 unique CDR3
6 unique J



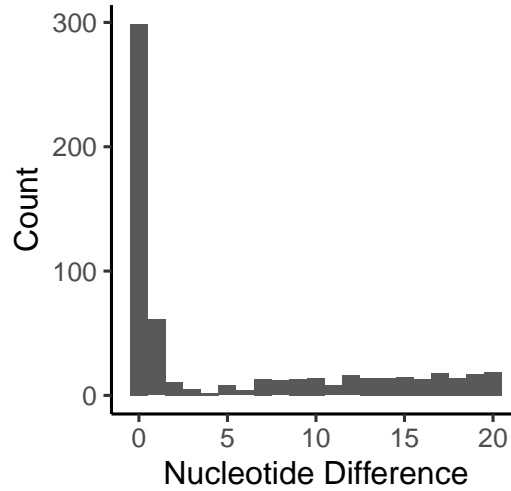
IGHV3-7*03

17 sequences assigned
No exact matches.



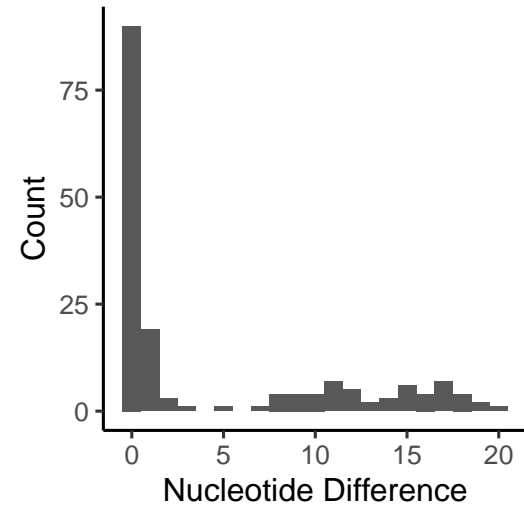
IGHV3-11*01

793 sequences assigned
299 (37.7%) exact matches, in which:
299 unique CDR3
6 unique J



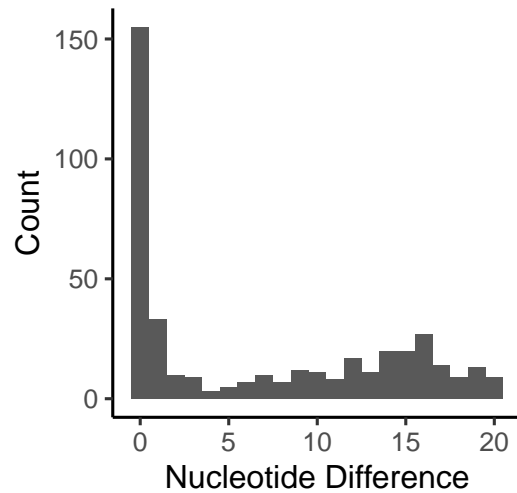
IGHV3-13*01

230 sequences assigned
90 (39.1%) exact matches, in which:
87 unique CDR3
5 unique J



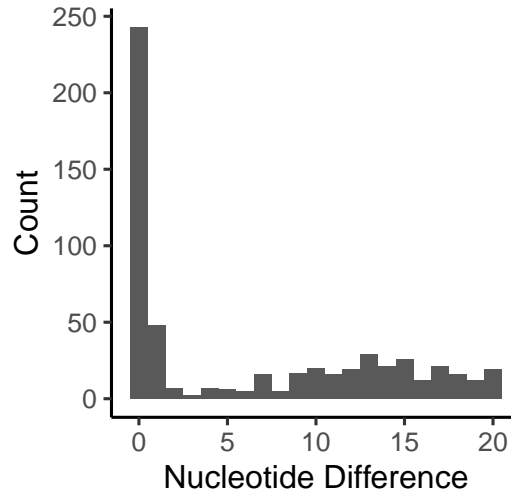
IGHV3-7*04

515 sequences assigned
155 (30.1%) exact matches, in which:
154 unique CDR3
6 unique J



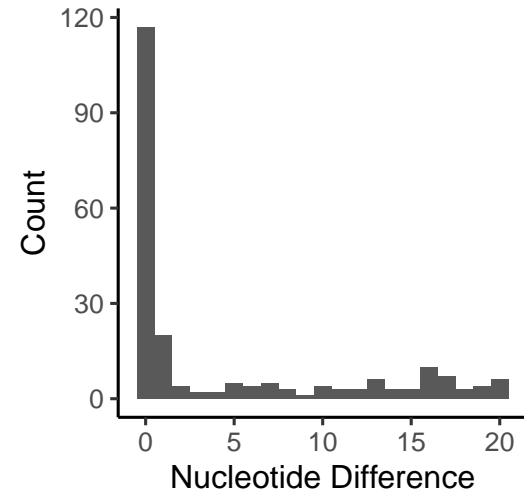
IGHV3-11*05

723 sequences assigned
243 (33.6%) exact matches, in which:
243 unique CDR3
6 unique J



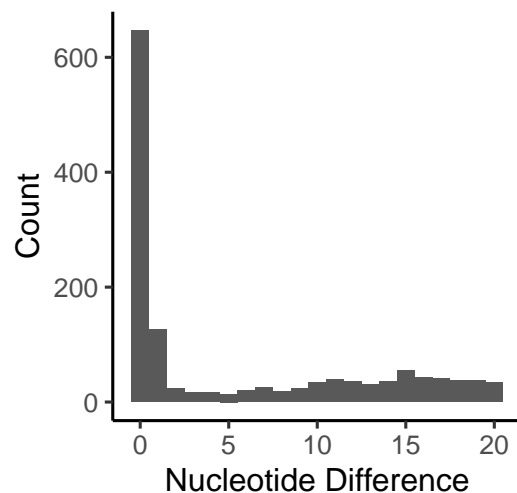
IGHV3-13*04

258 sequences assigned
117 (45.3%) exact matches, in which:
116 unique CDR3
5 unique J



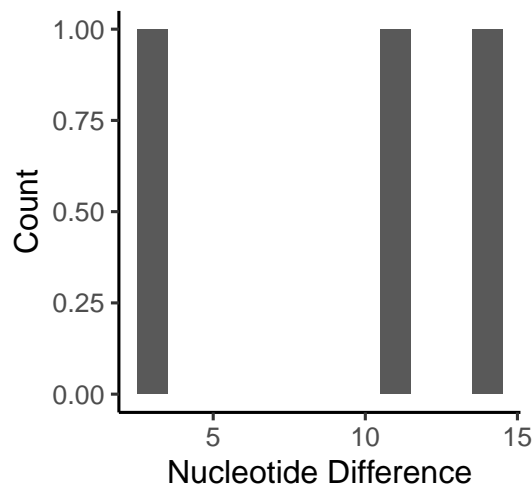
IGHV3-9*01

1691 sequences assigned
647 (38.3%) exact matches, in which:
631 unique CDR3
6 unique J



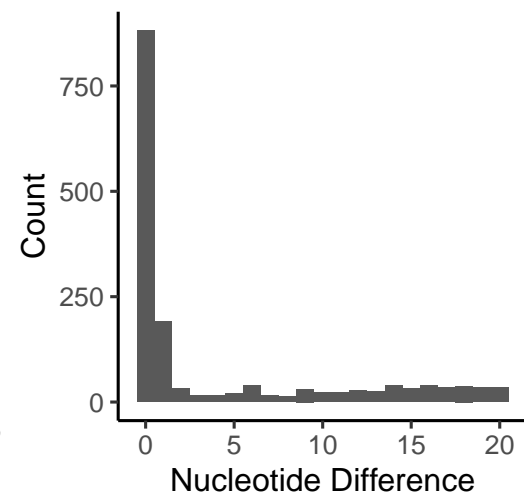
IGHV3-11*06

3 sequences assigned
No exact matches.



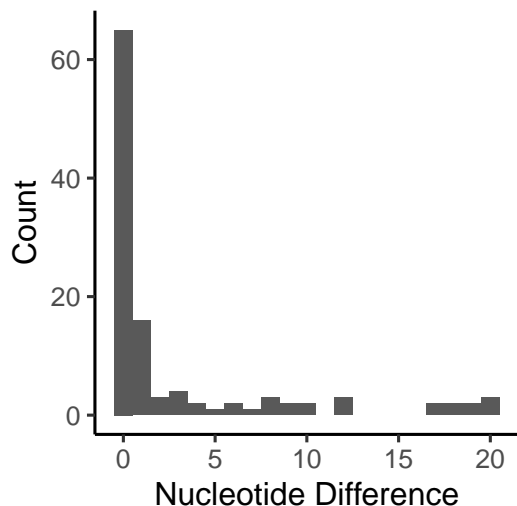
IGHV3-15*01

2120 sequences assigned
882 (41.6%) exact matches, in which:
863 unique CDR3
6 unique J



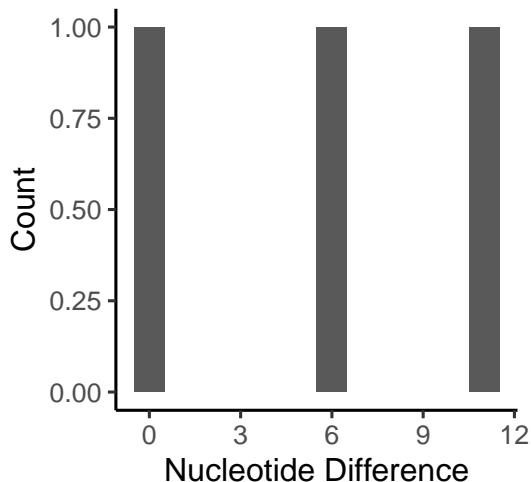
IGHV3-20*01

126 sequences assigned
65 (51.6%) exact matches, in which:
62 unique CDR3
6 unique J



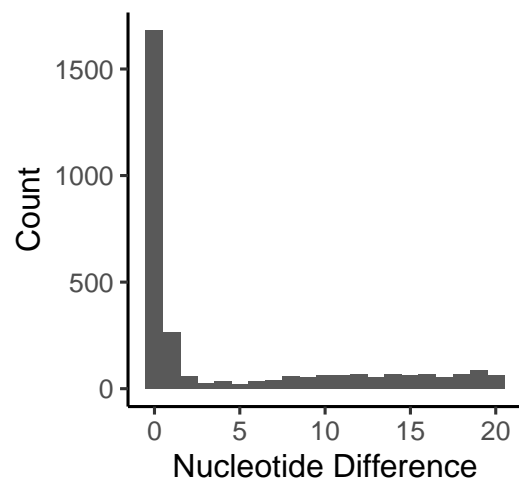
IGHV3-30-3*01

8 sequences assigned
1 (12.5%) exact matches, in which:
1 unique CDR3
1 unique J



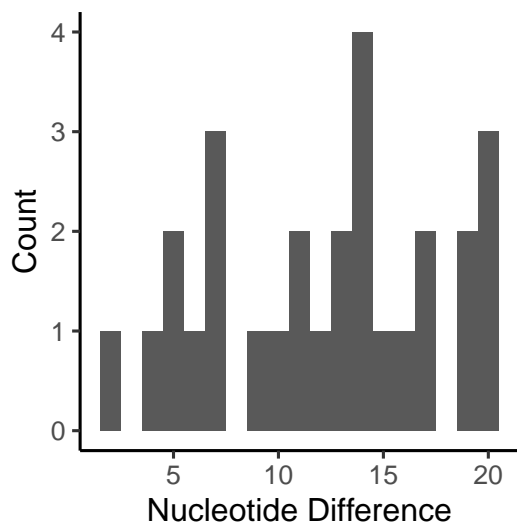
IGHV3-33*01

3762 sequences assigned
1681 (44.7%) exact matches, in which:
1665 unique CDR3
6 unique J



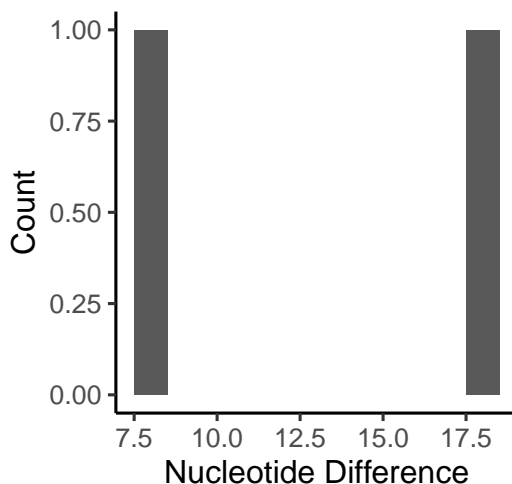
IGHV3-20*04

70 sequences assigned
No exact matches.



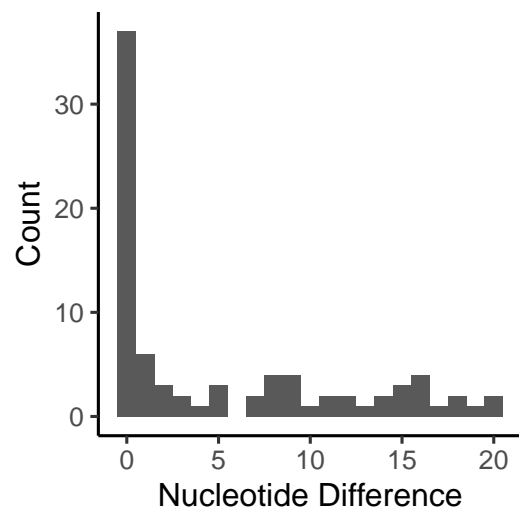
IGHV3-30-3*02

4 sequences assigned
No exact matches.



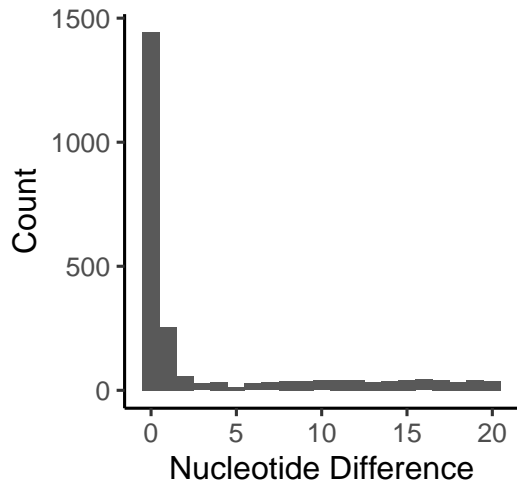
IGHV3-43*01

124 sequences assigned
37 (29.8%) exact matches, in which:
37 unique CDR3
4 unique J



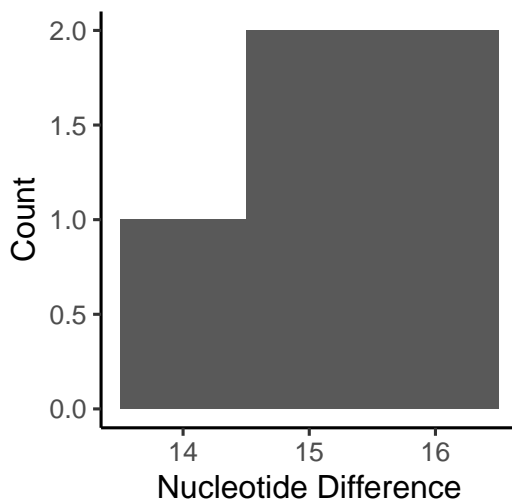
IGHV3-21*01

2963 sequences assigned
1444 (48.7%) exact matches, in which:
1430 unique CDR3
6 unique J



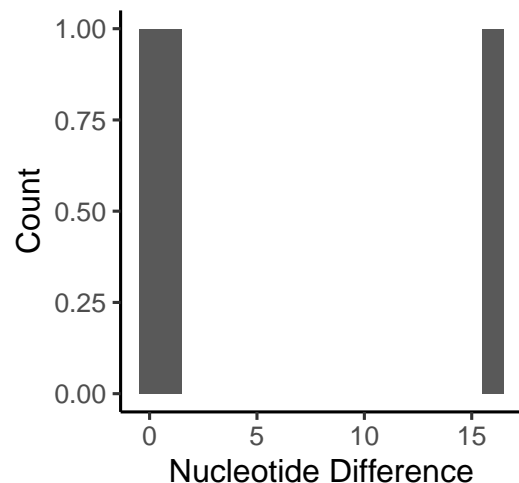
IGHV3-30-3*03

18 sequences assigned
No exact matches.



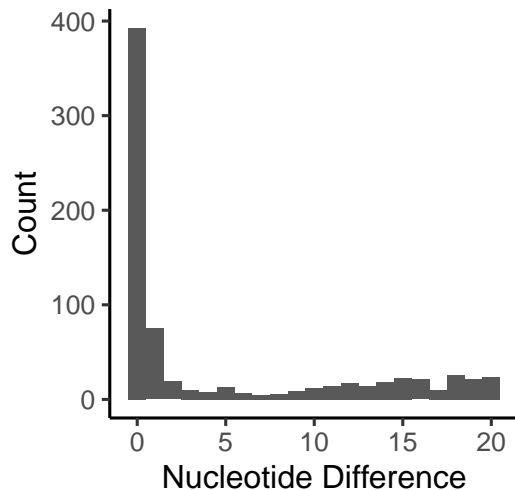
IGHV3-47*02

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



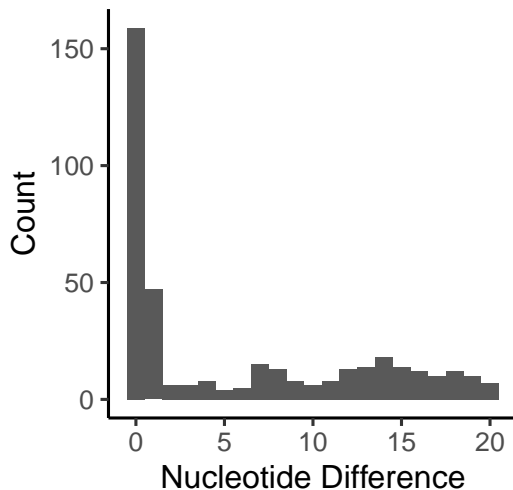
IGHV3-48*02

995 sequences assigned
393 (39.5%) exact matches, in which:
386 unique CDR3
6 unique J



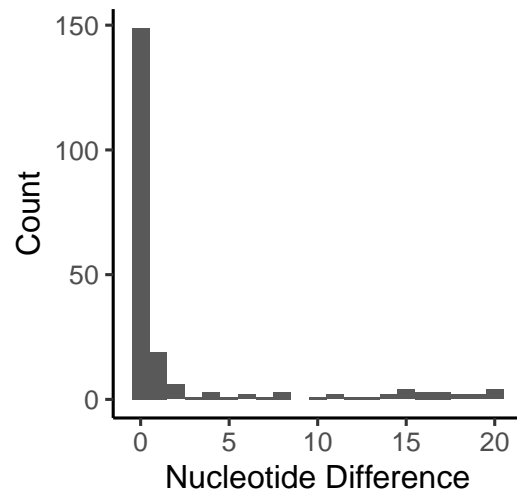
IGHV3-49*04

577 sequences assigned
159 (27.6%) exact matches, in which:
157 unique CDR3
5 unique J



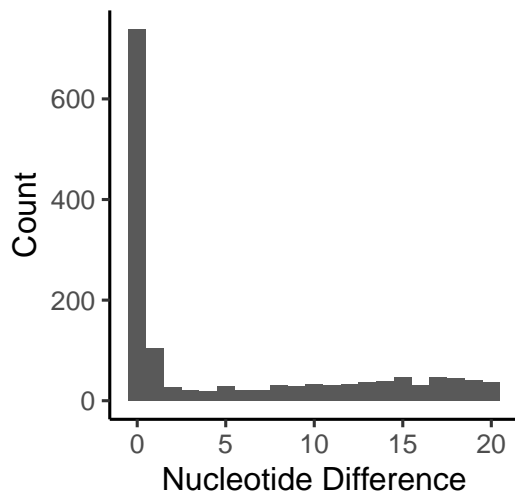
IGHV3-53*04

264 sequences assigned
149 (56.4%) exact matches, in which:
149 unique CDR3
5 unique J



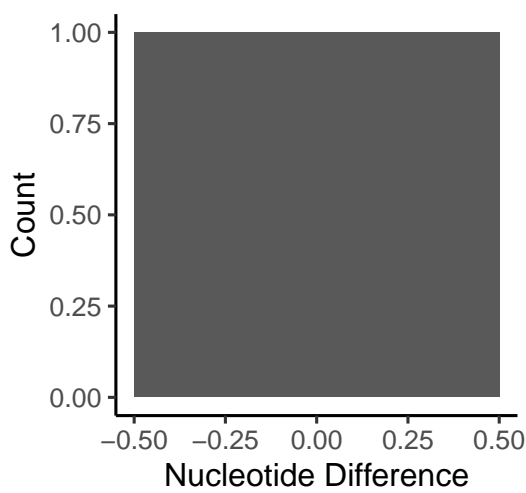
IGHV3-48*03

1873 sequences assigned
739 (39.5%) exact matches, in which:
732 unique CDR3
6 unique J



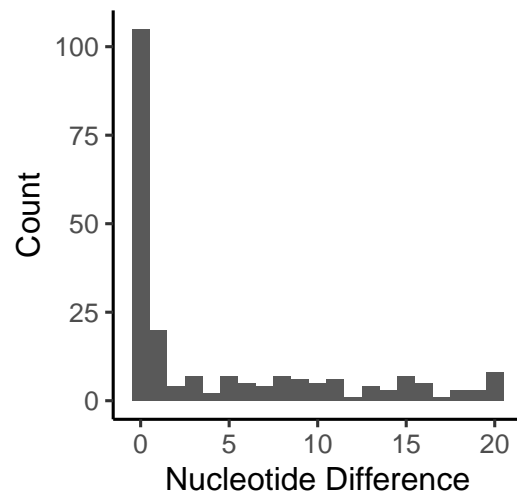
IGHV3-52*01

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



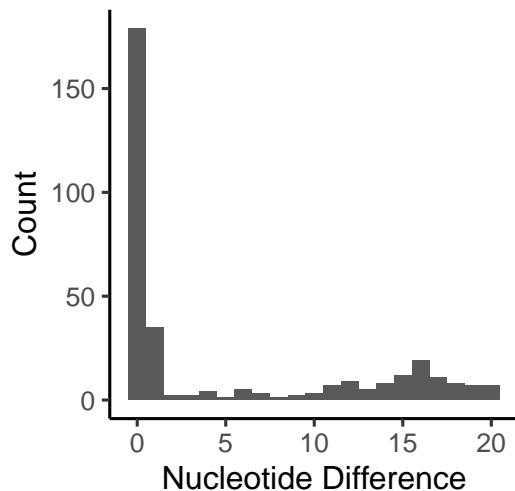
IGHV3-64*01

271 sequences assigned
105 (38.7%) exact matches, in which:
104 unique CDR3
6 unique J



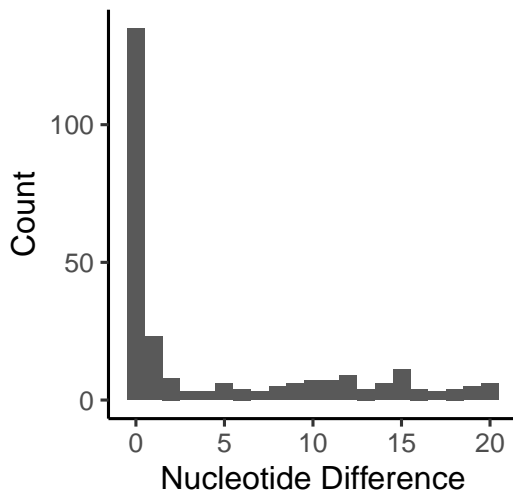
IGHV3-49*03

405 sequences assigned
179 (44.2%) exact matches, in which:
179 unique CDR3
6 unique J



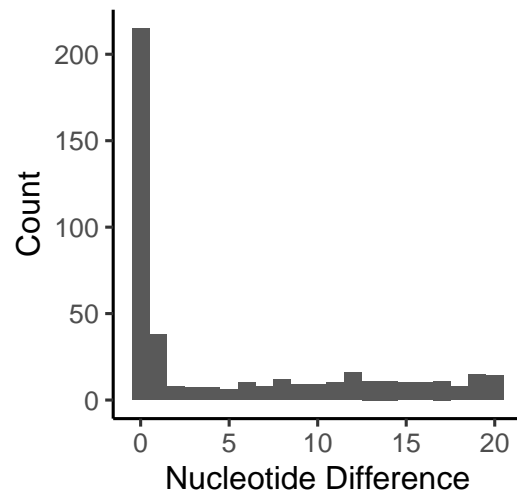
IGHV3-53*02

355 sequences assigned
135 (38%) exact matches, in which:
135 unique CDR3
6 unique J



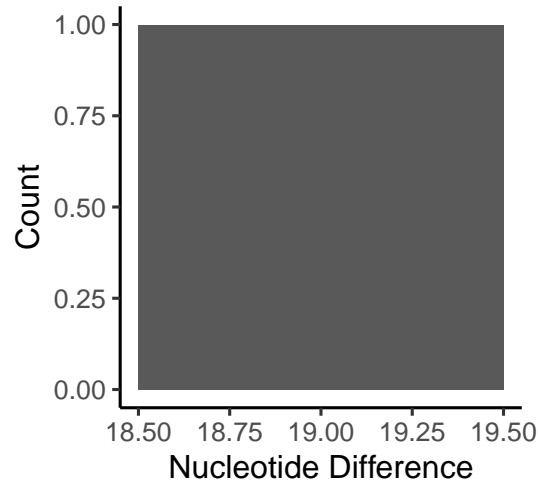
IGHV3-66*02

535 sequences assigned
215 (40.2%) exact matches, in which:
214 unique CDR3
6 unique J



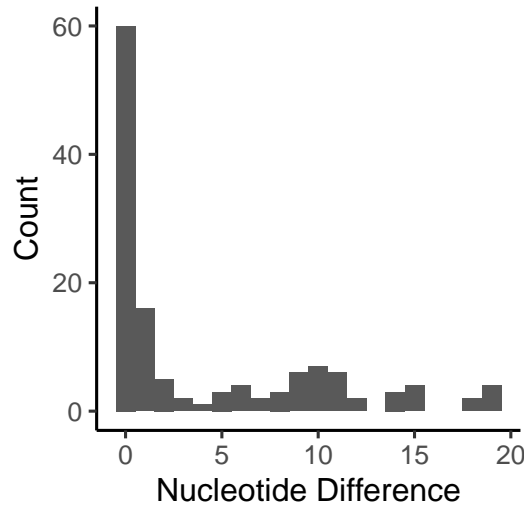
IGHV3-69-1*02

5 sequences assigned
No exact matches.



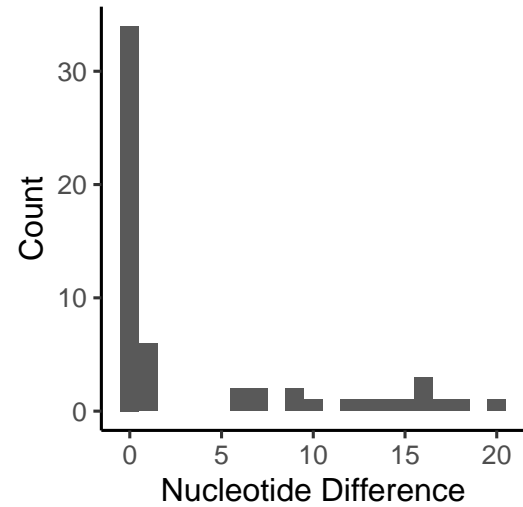
IGHV3-73*01

161 sequences assigned
60 (37.3%) exact matches, in which:
60 unique CDR3
5 unique J



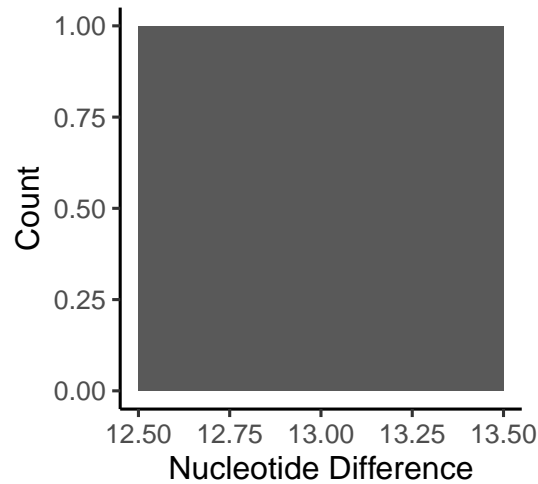
IGHV3-43D*04

67 sequences assigned
34 (50.7%) exact matches, in which:
33 unique CDR3
3 unique J



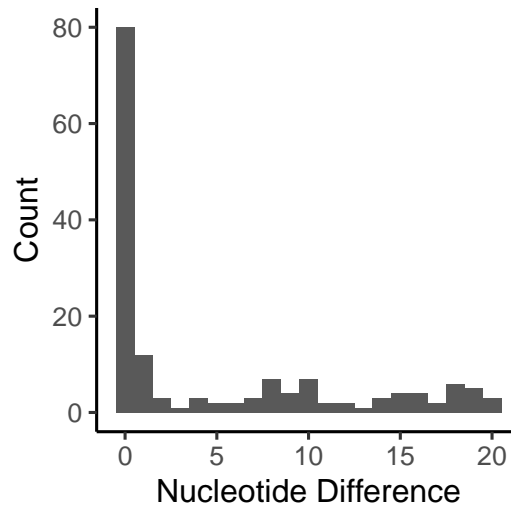
IGHV3-71*01

1 sequences assigned
No exact matches.



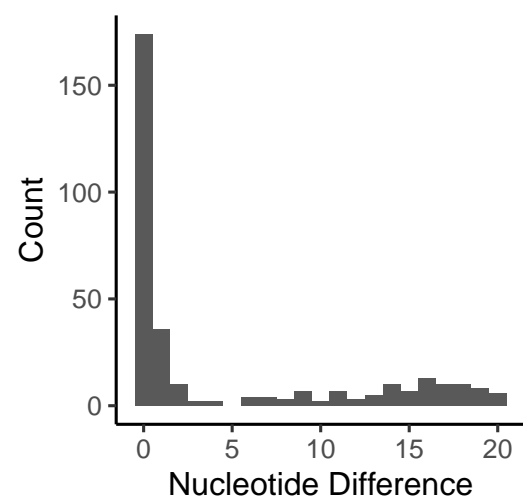
IGHV3-73*02

219 sequences assigned
80 (36.5%) exact matches, in which:
80 unique CDR3
5 unique J



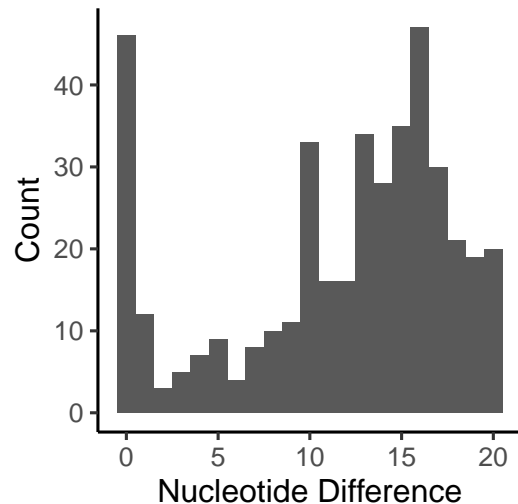
IGHV3-64D*06

514 sequences assigned
174 (33.9%) exact matches, in which:
171 unique CDR3
6 unique J



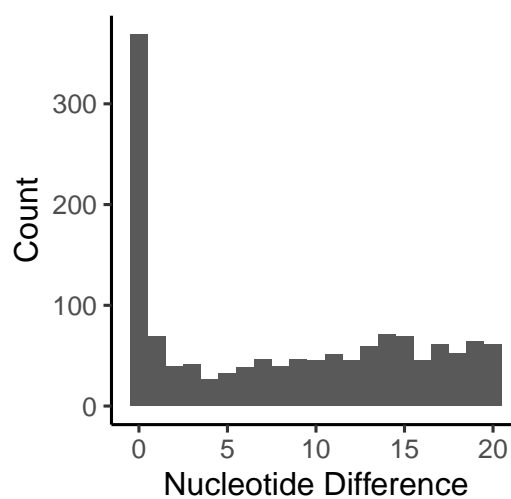
IGHV3-72*01

634 sequences assigned
46 (7.3%) exact matches, in which:
45 unique CDR3
4 unique J



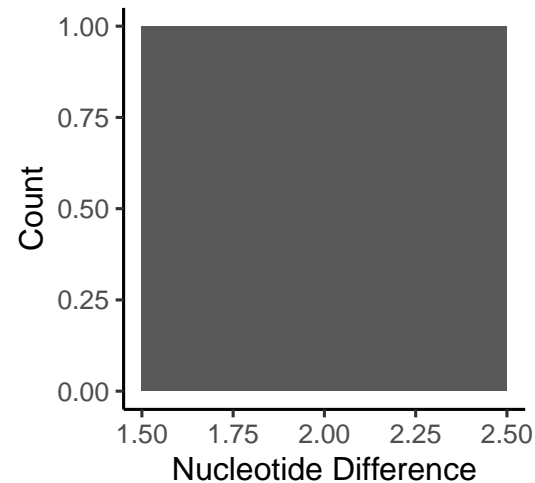
IGHV3-74*01

1936 sequences assigned
369 (19.1%) exact matches, in which:
361 unique CDR3
6 unique J



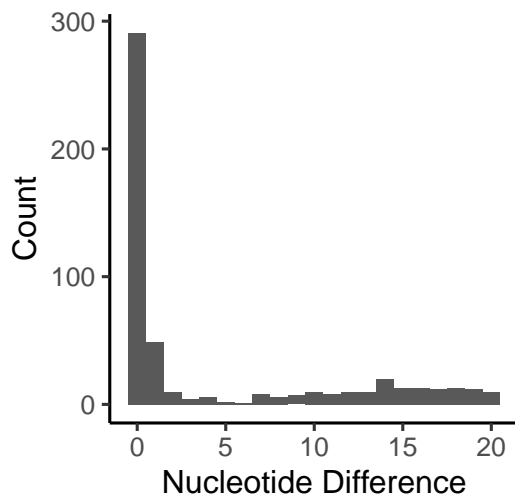
IGHV3-NL1*01

2 sequences assigned
No exact matches.



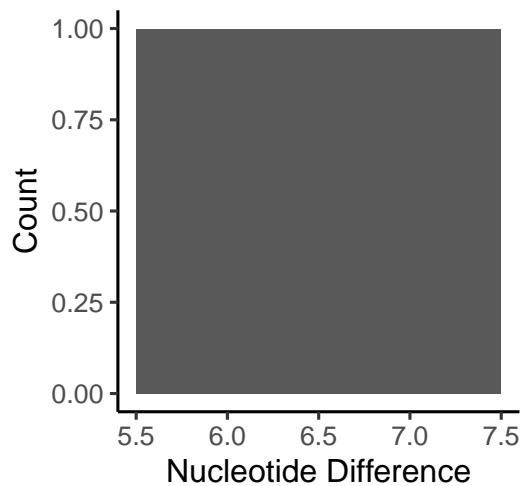
IGHV4-4*02

646 sequences assigned
291 (45%) exact matches, in which:
283 unique CDR3
6 unique J



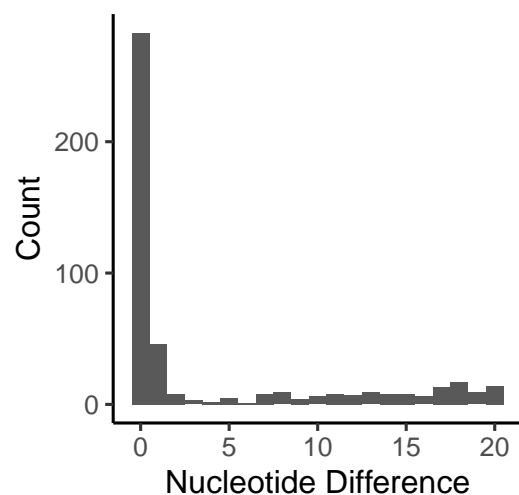
IGHV4-30-4*01

10 sequences assigned
No exact matches.



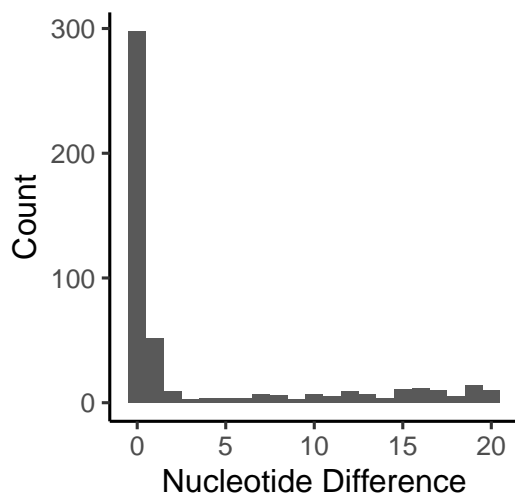
IGHV4-38-2*01

674 sequences assigned
283 (42%) exact matches, in which:
283 unique CDR3
6 unique J



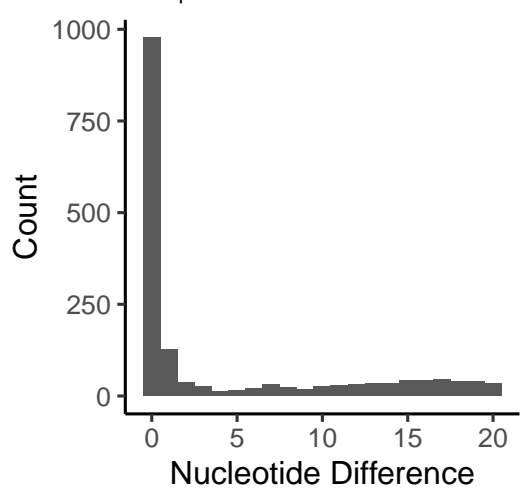
IGHV4-4*07

607 sequences assigned
298 (49.1%) exact matches, in which:
296 unique CDR3
6 unique J



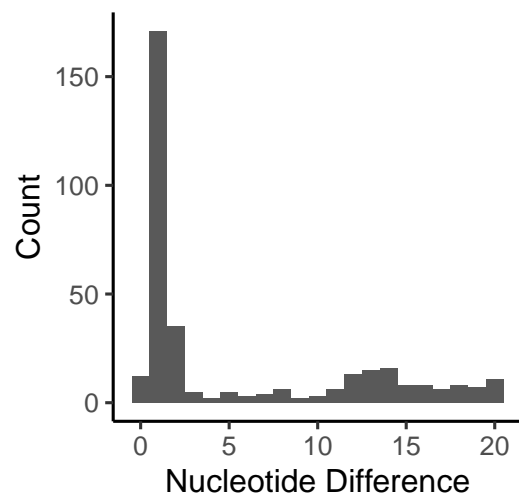
IGHV4-31*03

2178 sequences assigned
977 (44.9%) exact matches, in which:
971 unique CDR3
6 unique J



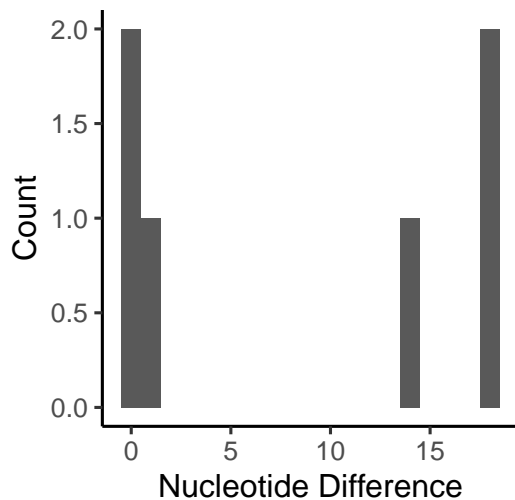
IGHV4-38-2*02

483 sequences assigned
12 (2.5%) exact matches, in which:
12 unique CDR3
5 unique J



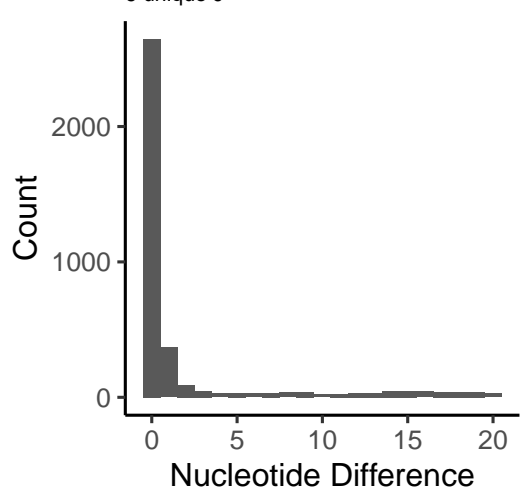
IGHV4-28*01

8 sequences assigned
2 (25%) exact matches, in which:
2 unique CDR3
2 unique J



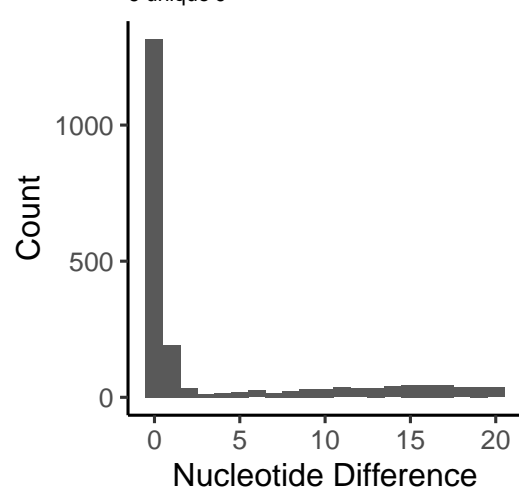
IGHV4-34*01

4168 sequences assigned
2646 (63.5%) exact matches, in which:
2636 unique CDR3
6 unique J



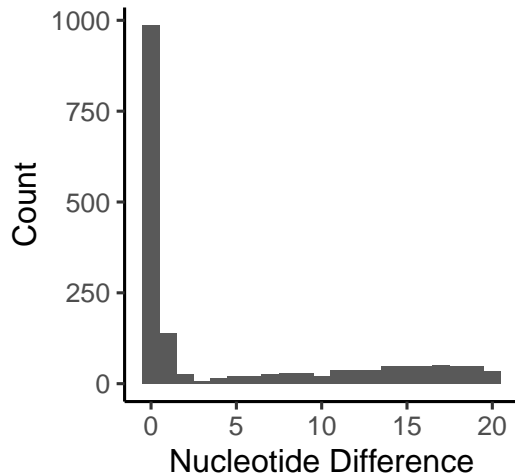
IGHV4-39*01

2835 sequences assigned
1316 (46.4%) exact matches, in which:
1302 unique CDR3
6 unique J



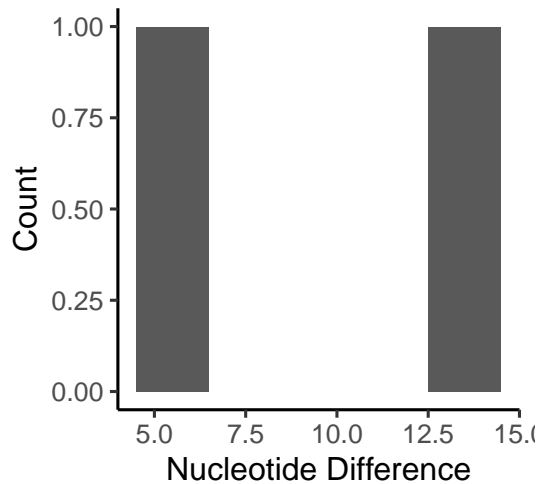
IGHV4–59*01

2354 sequences assigned
986 (41.9%) exact matches, in which:
978 unique CDR3
6 unique J



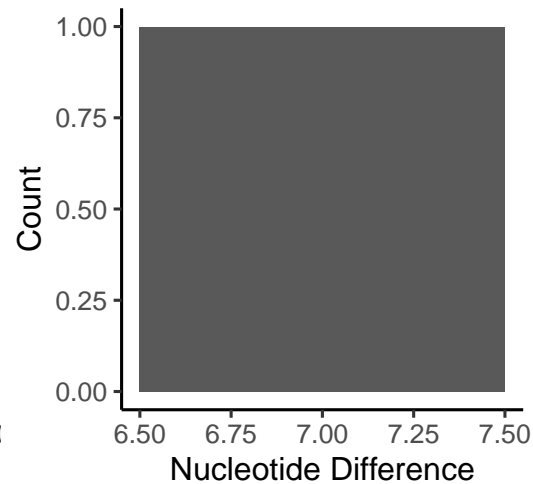
IGHV1/OR15–1*04

5 sequences assigned
No exact matches.



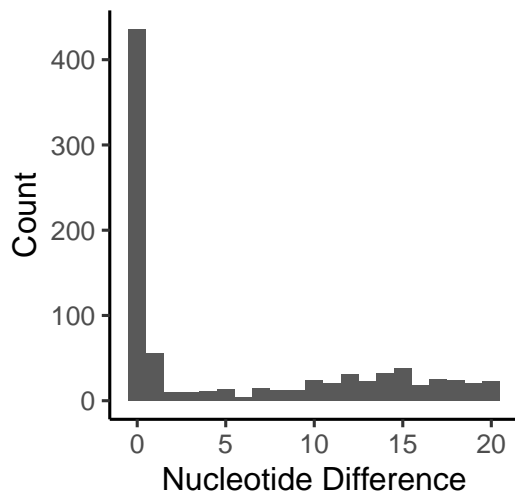
IGHV1/OR15–9*01

1 sequences assigned
No exact matches.



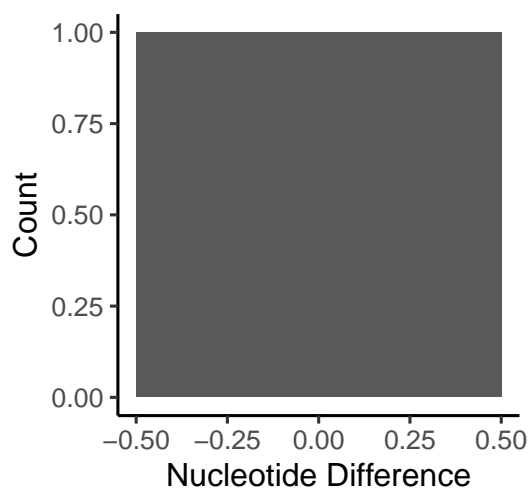
IGHV4–59*08

1185 sequences assigned
436 (36.8%) exact matches, in which:
434 unique CDR3
6 unique J



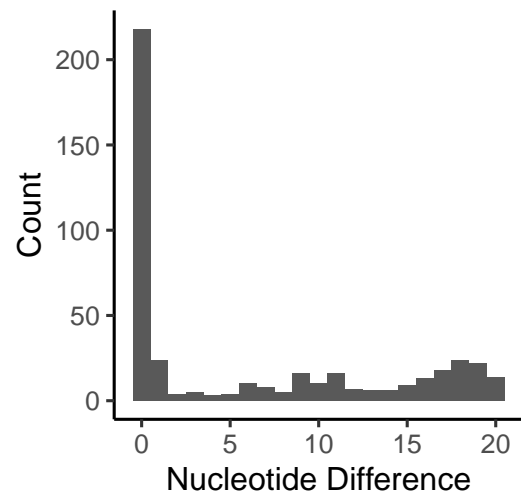
IGHV1/OR15–4*01

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



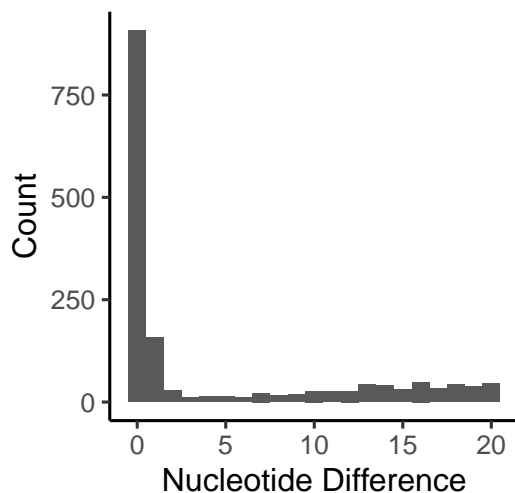
IGHV5–10–1*01

589 sequences assigned
218 (37%) exact matches, in which:
212 unique CDR3
6 unique J



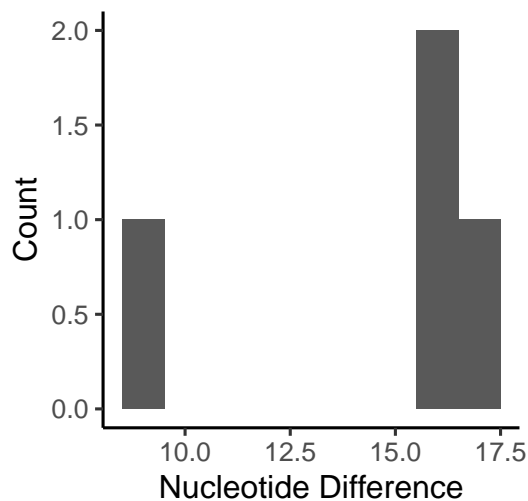
IGHV4–61*02

2131 sequences assigned
908 (42.6%) exact matches, in which:
903 unique CDR3
6 unique J



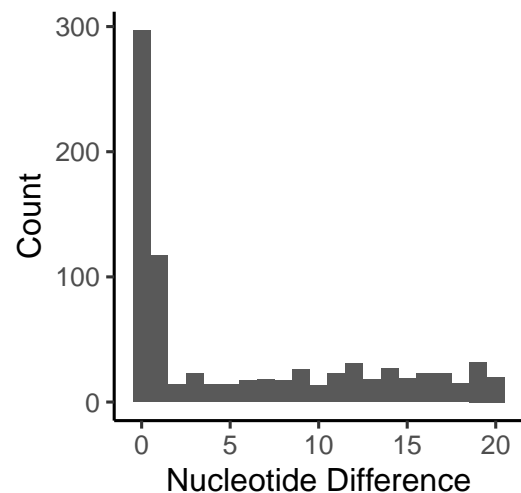
IGHV4/OR15–8*02

10 sequences assigned
No exact matches.



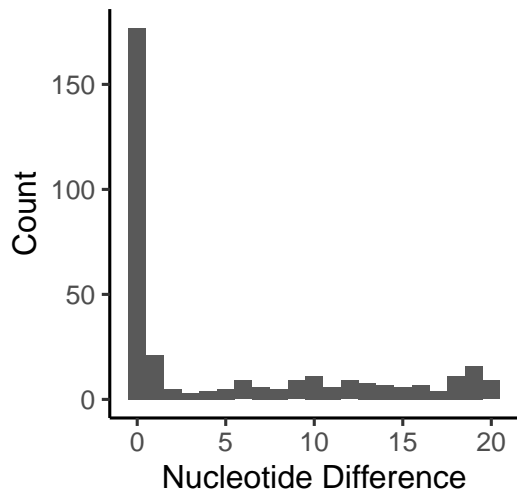
IGHV5–51*01

1081 sequences assigned
297 (27.5%) exact matches, in which:
292 unique CDR3
6 unique J



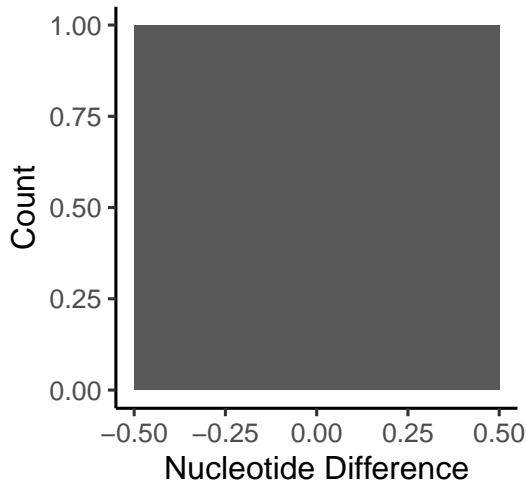
IGHV5–51*03

532 sequences assigned
177 (33.3%) exact matches, in which:
175 unique CDR3
6 unique J



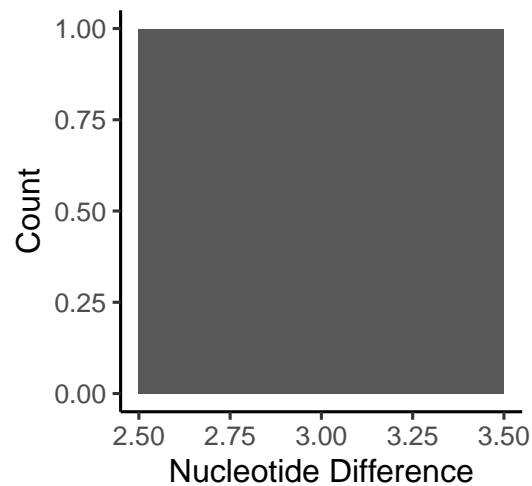
IGHV3/OR16–6*02

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



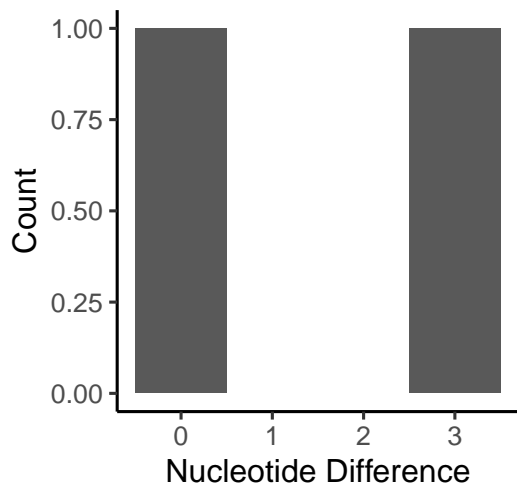
IGHV3/OR16–12*01

1 sequences assigned
No exact matches.



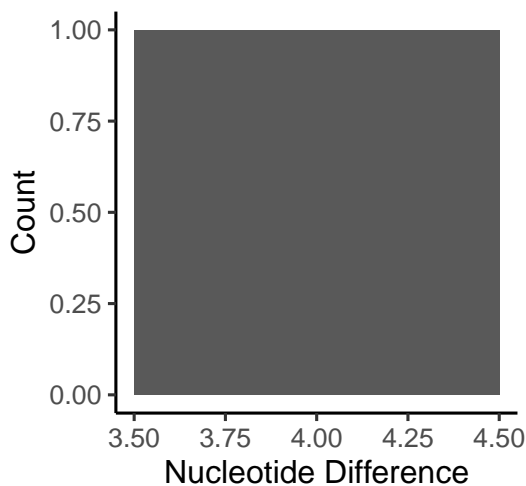
IGHV5–78*01

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



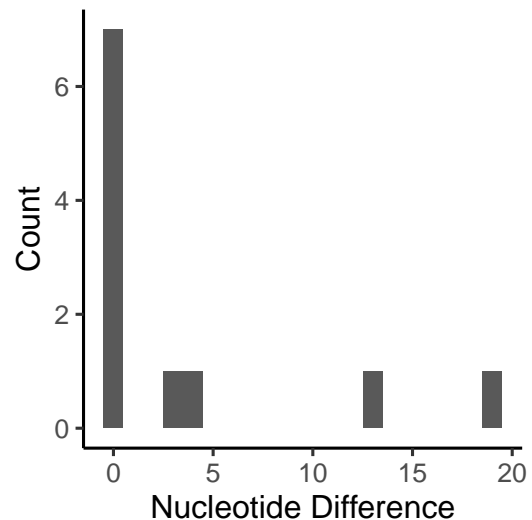
IGHV3/OR16–8*01

1 sequences assigned
No exact matches.



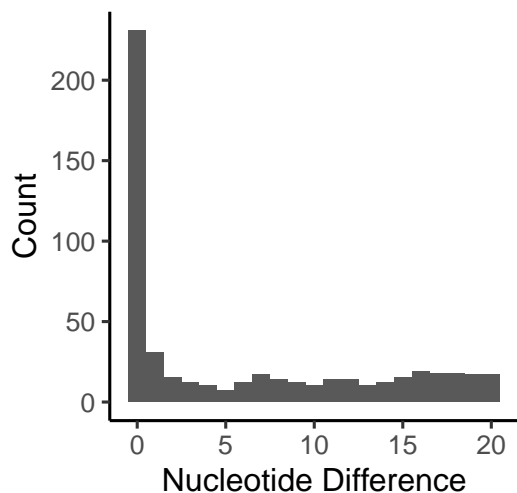
IGHV7–4–1*01

12 sequences assigned
7 (58.3%) exact matches, in which:
7 unique CDR3
2 unique J



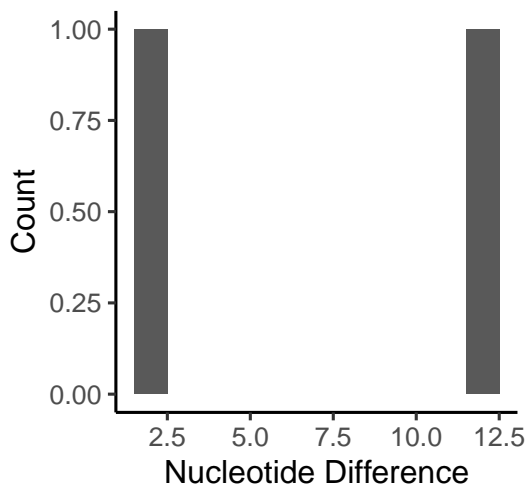
IGHV6–1*01

585 sequences assigned
231 (39.5%) exact matches, in which:
231 unique CDR3
5 unique J



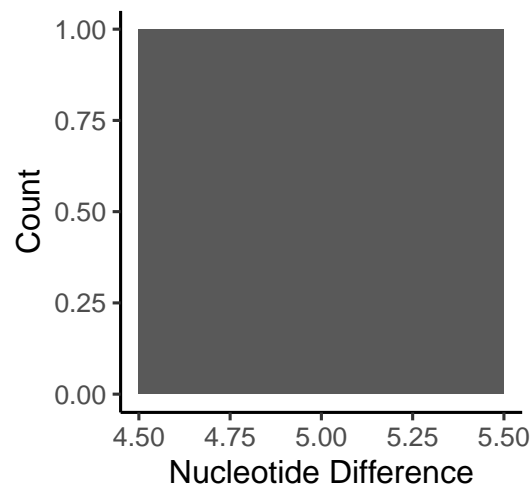
IGHV3/OR16–9*01

2 sequences assigned
No exact matches.



IGHV7–81*01

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.