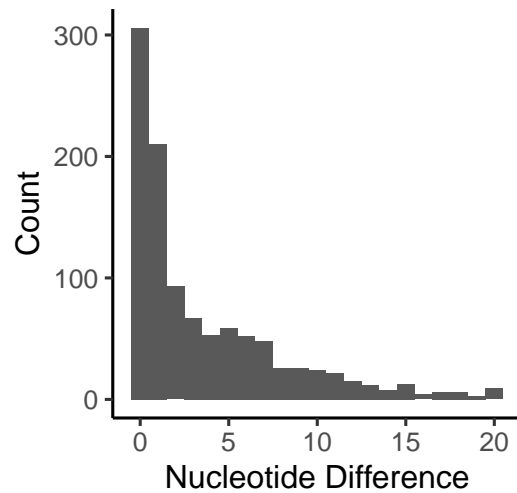


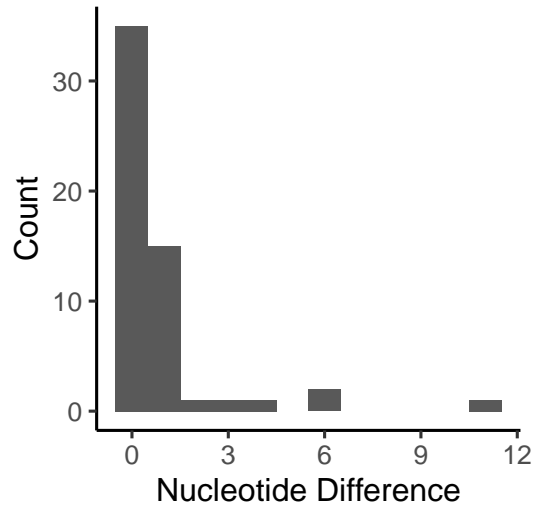
IGHV1-60*01_S1023

1088 sequences assigned
306 (28.1%) exact matches, in which:
227 unique CDR3
9 unique J



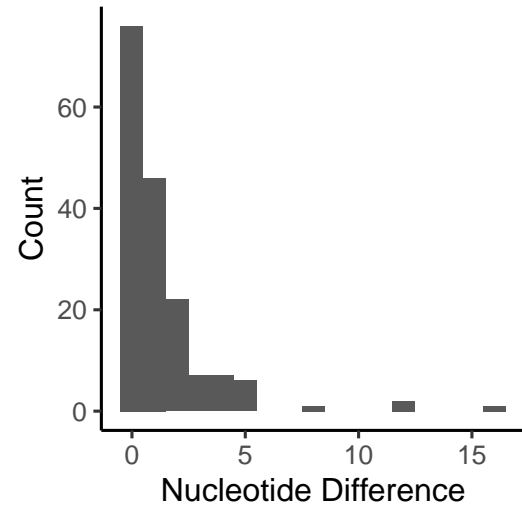
IGHV1-105*01_S8693

56 sequences assigned
35 (62.5%) exact matches, in which:
16 unique CDR3
6 unique J



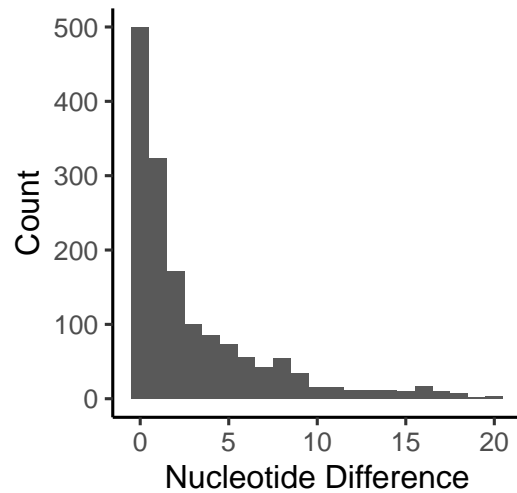
IGHV1-138*01_S6073

168 sequences assigned
76 (45.2%) exact matches, in which:
67 unique CDR3
6 unique J



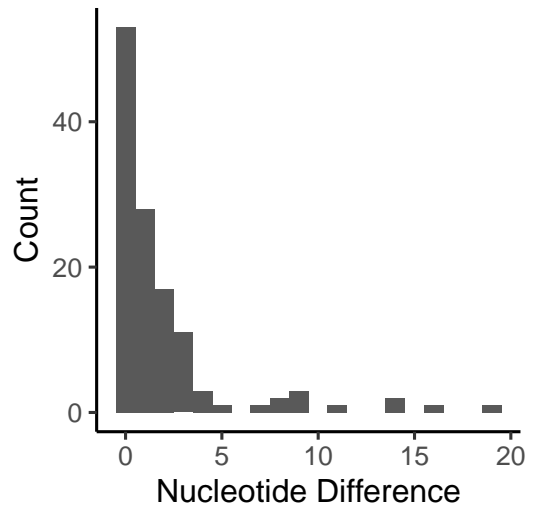
IGHV1-60*01_S7772

1562 sequences assigned
500 (32%) exact matches, in which:
374 unique CDR3
7 unique J



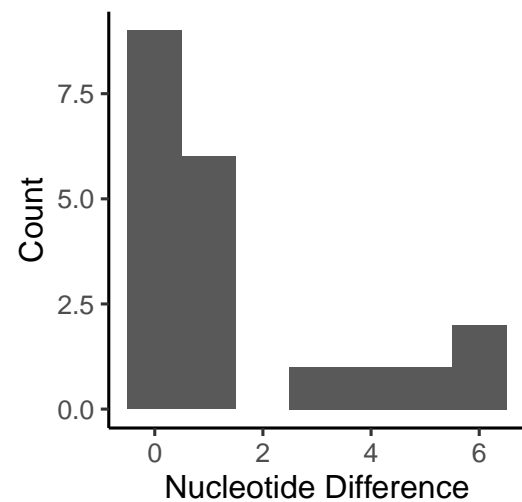
IGHV1-124*01_S6748

127 sequences assigned
53 (41.7%) exact matches, in which:
43 unique CDR3
9 unique J



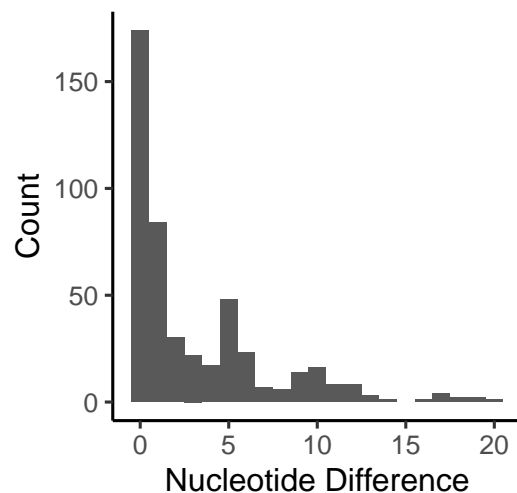
IGHV1-170*01_S3055

20 sequences assigned
9 (45%) exact matches, in which:
4 unique CDR3
1 unique J



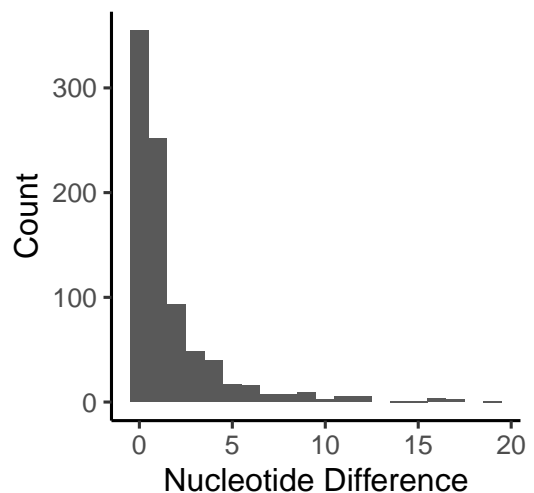
IGHV1-84*01_S2078

471 sequences assigned
174 (36.9%) exact matches, in which:
105 unique CDR3
7 unique J



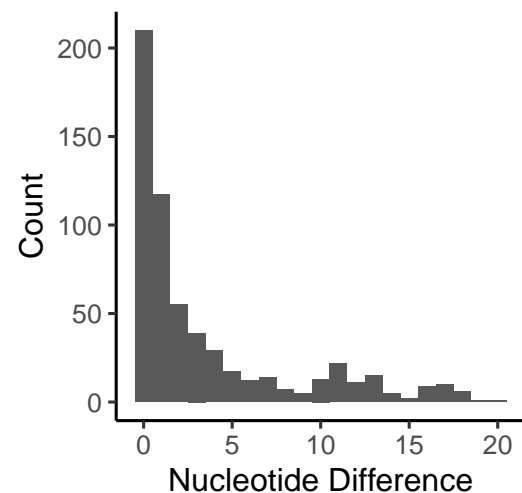
IGHV1-138*01_S2054

871 sequences assigned
355 (40.8%) exact matches, in which:
304 unique CDR3
11 unique J



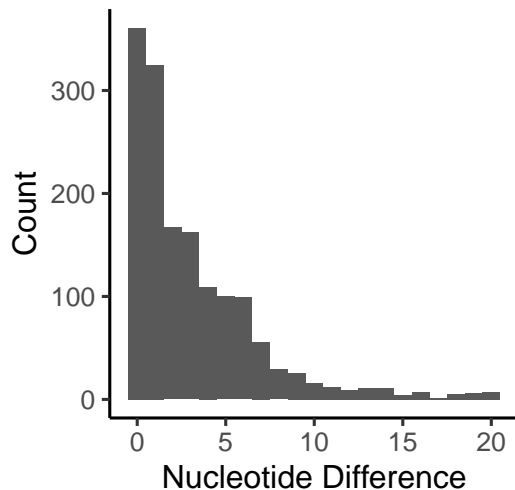
IGHV1-NL_2*01_S6034

612 sequences assigned
210 (34.3%) exact matches, in which:
120 unique CDR3
7 unique J



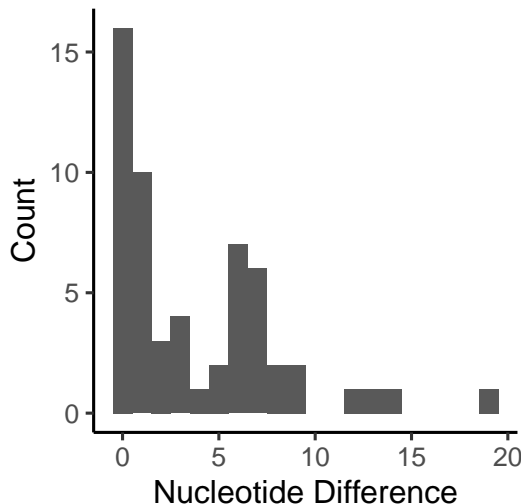
IGHV2-7*02_S3534

1538 sequences assigned
361 (23.5%) exact matches, in which:
223 unique CDR3
8 unique J



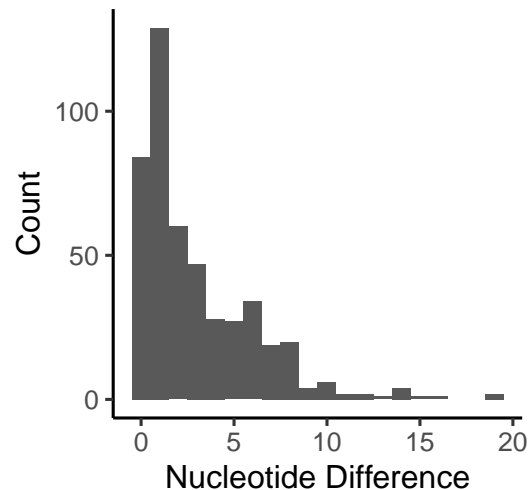
IGHV2-118*01_S1355

57 sequences assigned
16 (28.1%) exact matches, in which:
12 unique CDR3
4 unique J



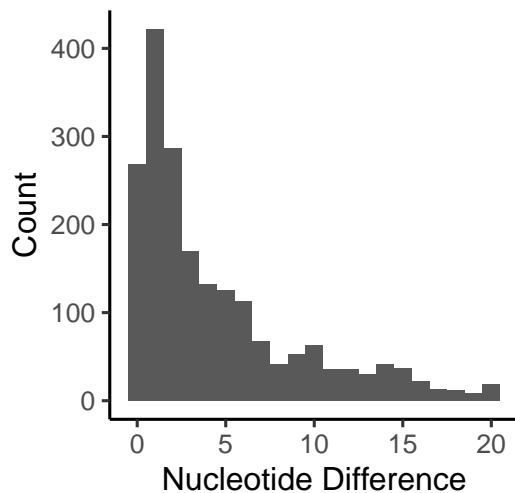
IGHV2-NL_2*01_S2193

484 sequences assigned
84 (17.4%) exact matches, in which:
51 unique CDR3
6 unique J



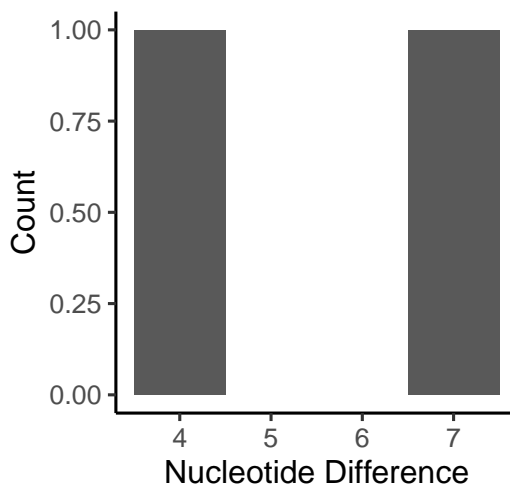
IGHV2-69*01_S0230

2069 sequences assigned
269 (13%) exact matches, in which:
160 unique CDR3
7 unique J



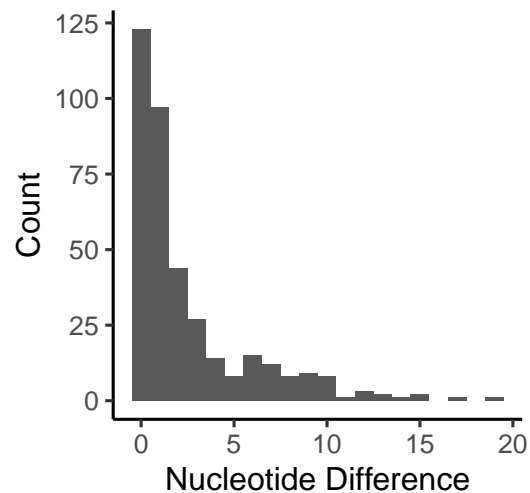
IGHV2-173*01_S2781

2 sequences assigned
No exact matches.



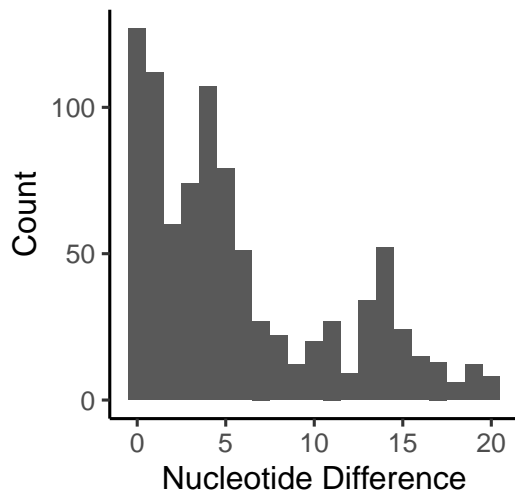
IGHV2-NL_2*01_S6246

376 sequences assigned
123 (32.7%) exact matches, in which:
76 unique CDR3
6 unique J



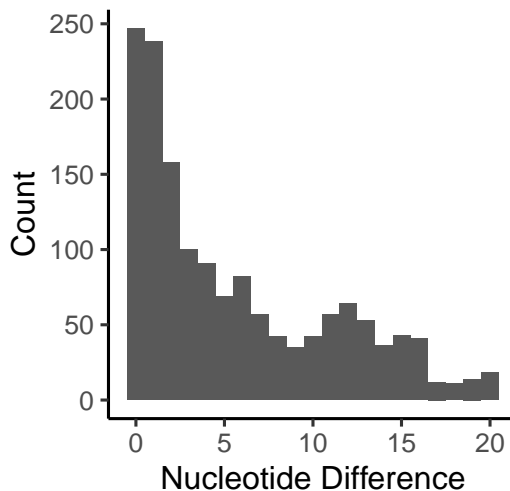
IGHV2-69*01_S3644

907 sequences assigned
127 (14%) exact matches, in which:
85 unique CDR3
9 unique J



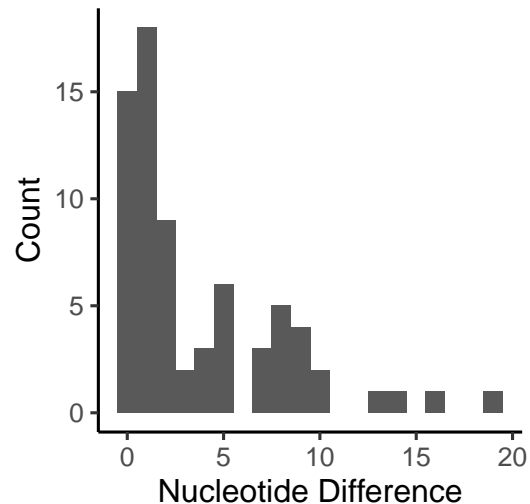
IGHV2-NL_1*01_S4605

1556 sequences assigned
247 (15.9%) exact matches, in which:
162 unique CDR3
8 unique J



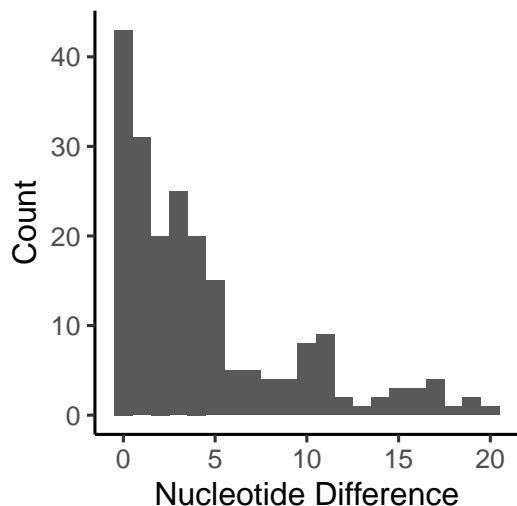
IGHV3-5*01_S1720

73 sequences assigned
15 (20.5%) exact matches, in which:
11 unique CDR3
3 unique J



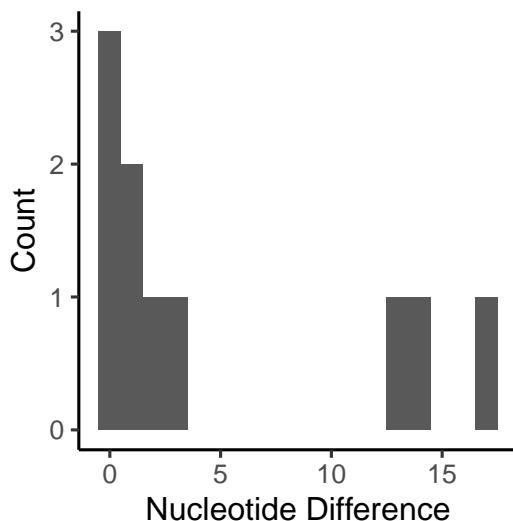
IGHV3-5*01_S7285

332 sequences assigned
43 (13%) exact matches, in which:
34 unique CDR3
5 unique J



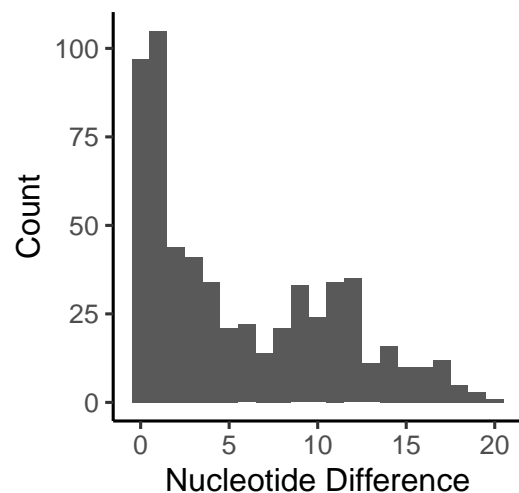
IGHV3-34*01_S1123

10 sequences assigned
3 (30%) exact matches, in which:
3 unique CDR3
2 unique J



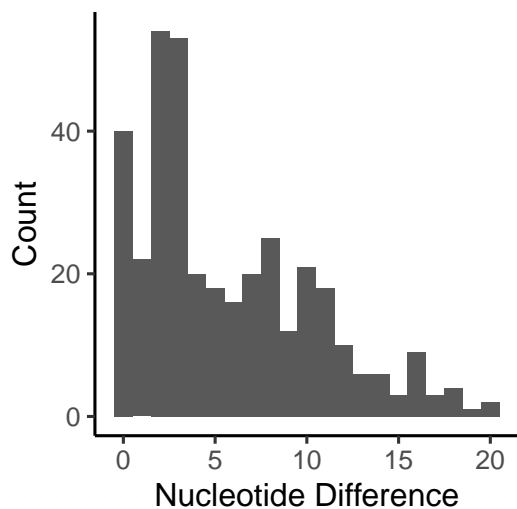
IGHV3-50*01_S9862

609 sequences assigned
97 (15.9%) exact matches, in which:
72 unique CDR3
5 unique J



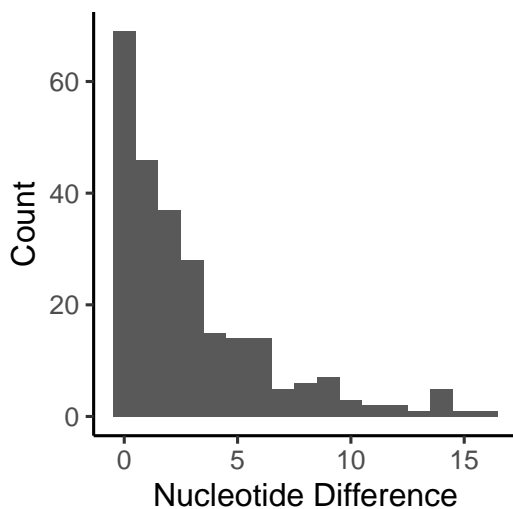
IGHV3-9*01_S0778

382 sequences assigned
40 (10.5%) exact matches, in which:
34 unique CDR3
5 unique J



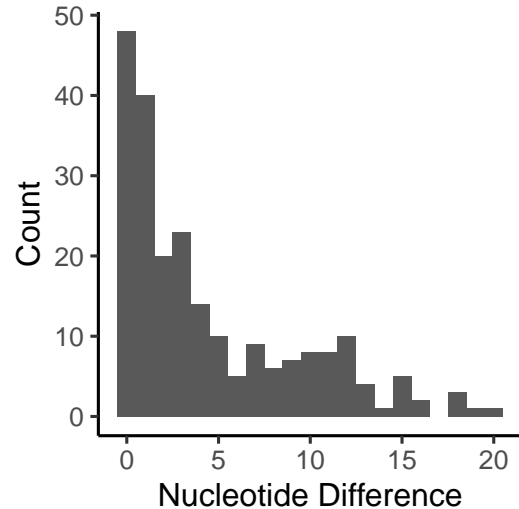
IGHV3-36*01_S6650

256 sequences assigned
69 (27%) exact matches, in which:
63 unique CDR3
6 unique J



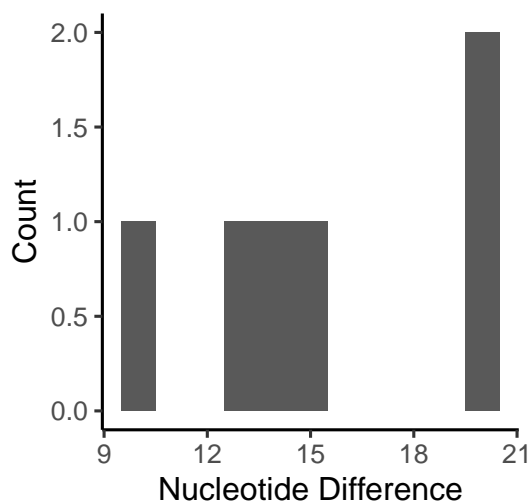
IGHV3-52*01_S8160

229 sequences assigned
48 (21%) exact matches, in which:
33 unique CDR3
5 unique J



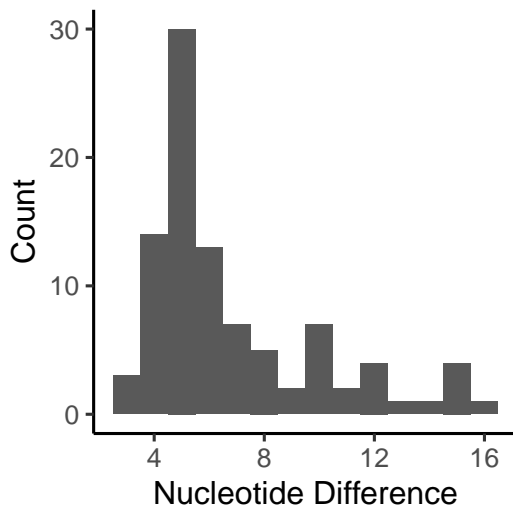
IGHV3-28*01_S3617

7 sequences assigned
No exact matches.



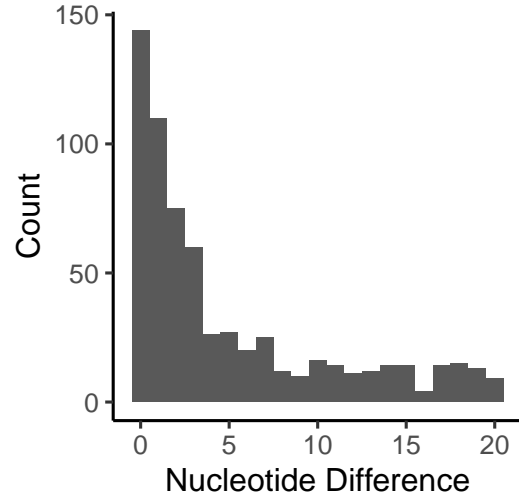
IGHV3-37*01_S0586

95 sequences assigned
No exact matches.



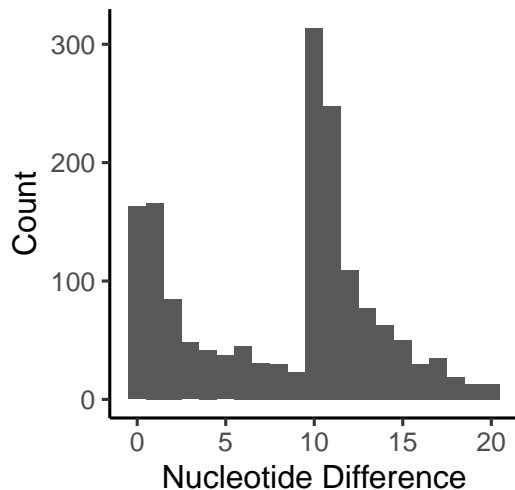
IGHV3-53*01_S6215

672 sequences assigned
144 (21.4%) exact matches, in which:
115 unique CDR3
8 unique J



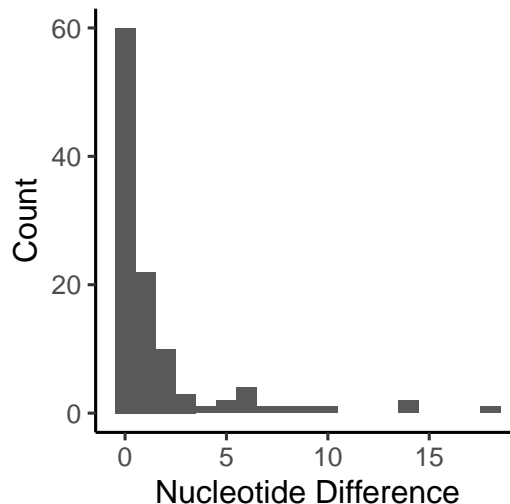
IGHV3-53*01_S8913

1743 sequences assigned
163 (9.4%) exact matches, in which:
121 unique CDR3
7 unique J



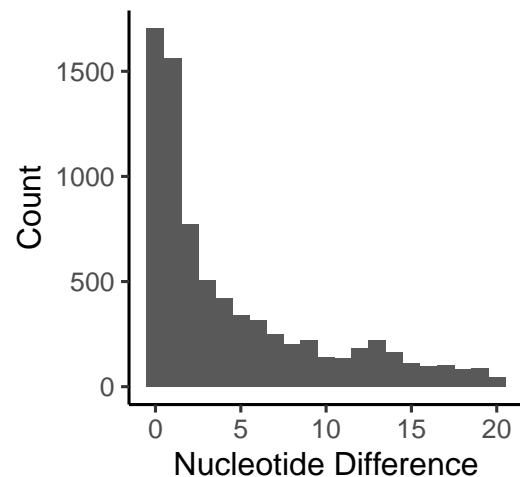
IGHV3-73*02_S9730

110 sequences assigned
60 (54.5%) exact matches, in which:
42 unique CDR3
5 unique J



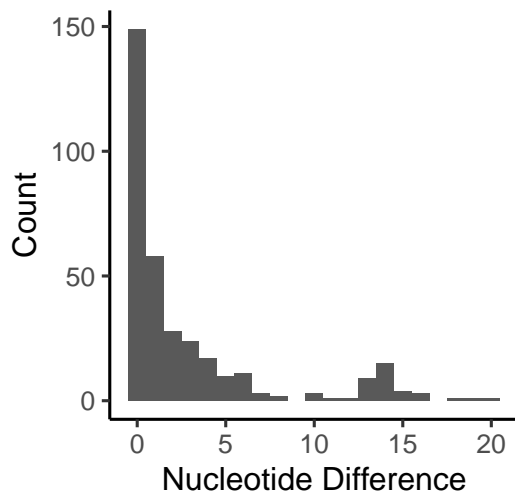
IGHV3-76*02_S4190

7924 sequences assigned
1704 (21.5%) exact matches, in which:
1338 unique CDR3
11 unique J



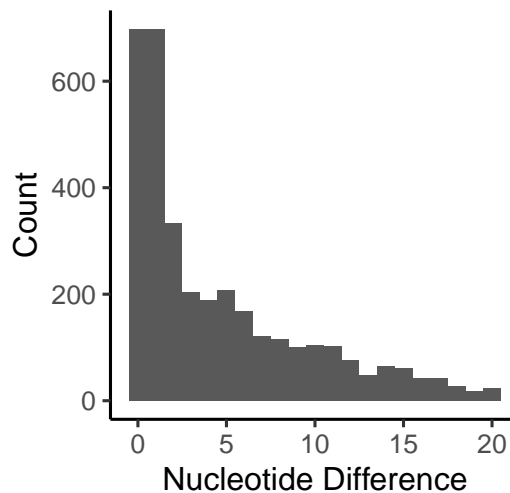
IGHV3-73*02_S0606

364 sequences assigned
149 (40.9%) exact matches, in which:
122 unique CDR3
7 unique J



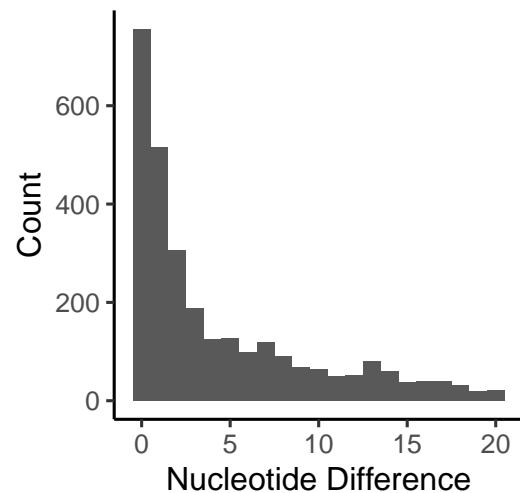
IGHV3-76*01_S0794

3592 sequences assigned
697 (19.4%) exact matches, in which:
536 unique CDR3
10 unique J



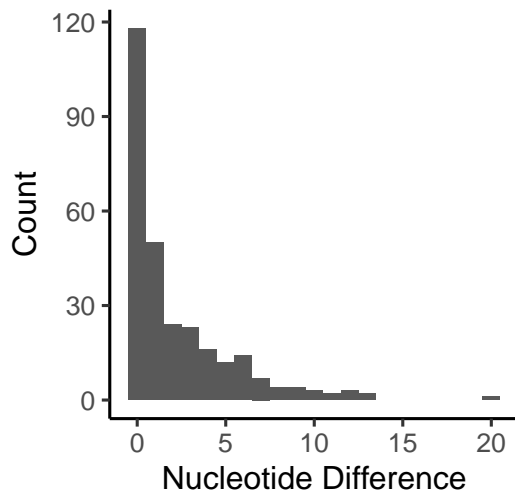
IGHV3-76*02_S4190_A2

2980 sequences assigned
756 (25.4%) exact matches, in which:
695 unique CDR3
9 unique J



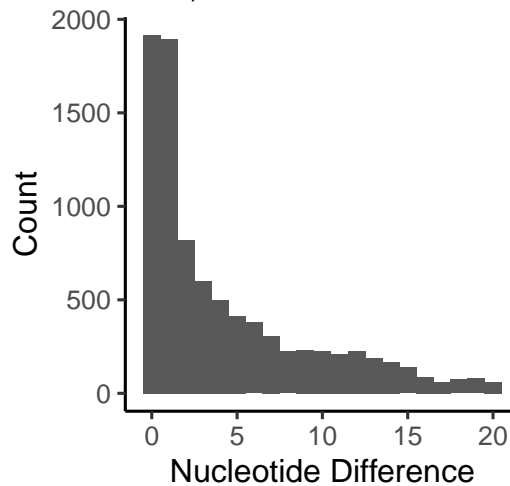
IGHV3-73*02_S4889

284 sequences assigned
118 (41.5%) exact matches, in which:
92 unique CDR3
7 unique J



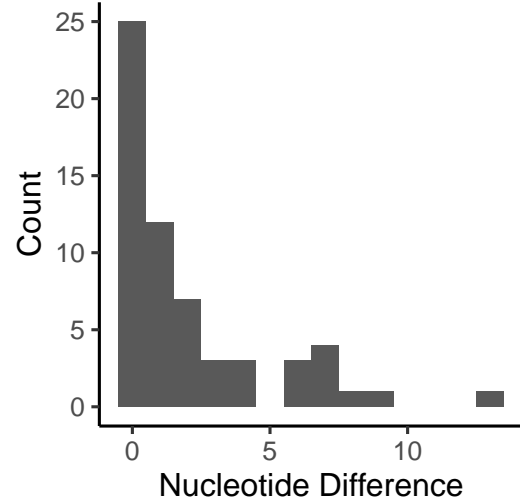
IGHV3-76*01_S9591

9192 sequences assigned
1916 (20.8%) exact matches, in which:
1503 unique CDR3
11 unique J



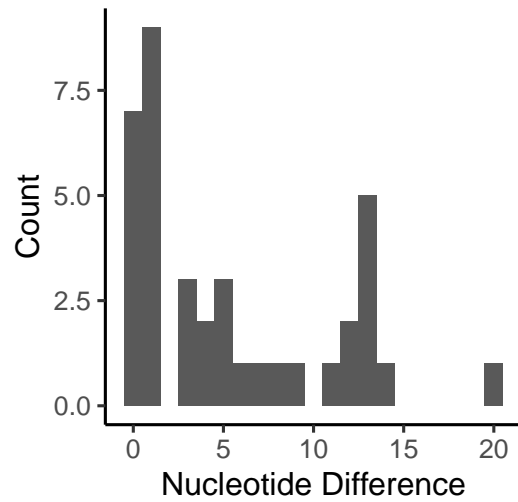
IGHV3-83*01_S5932

61 sequences assigned
25 (41%) exact matches, in which:
21 unique CDR3
4 unique J



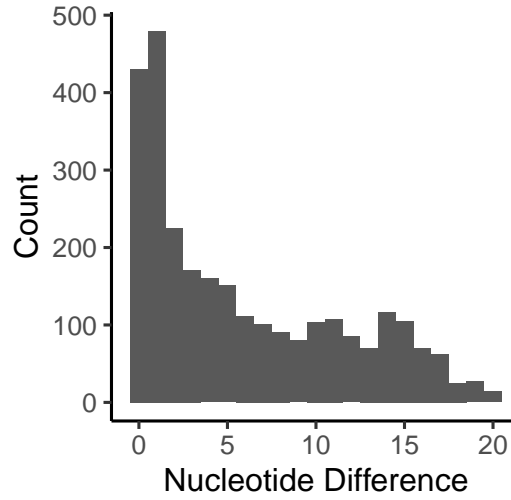
IGHV3–83*02_S1476

38 sequences assigned
7 (18.4%) exact matches, in which:
7 unique CDR3
3 unique J



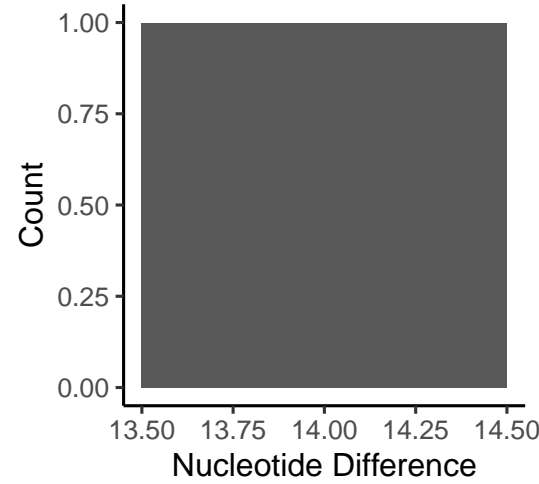
IGHV3–88*02_S1054

2895 sequences assigned
430 (14.9%) exact matches, in which:
307 unique CDR3
7 unique J



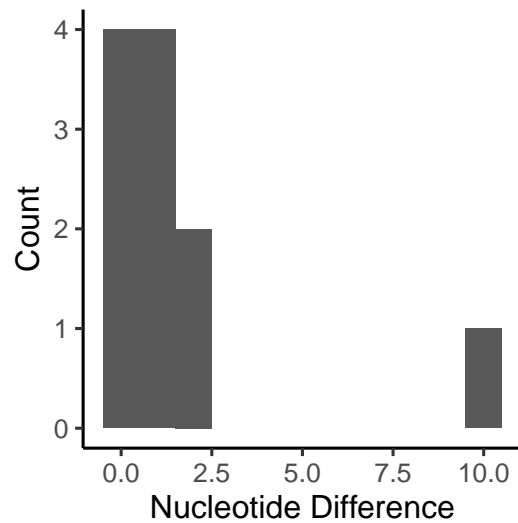
IGHV3–103*01_S0760

2 sequences assigned
No exact matches.



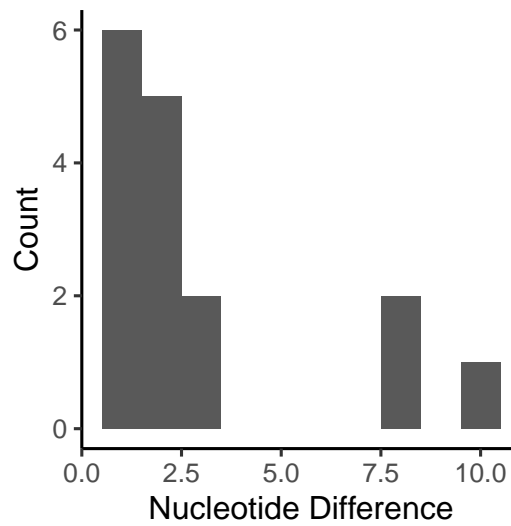
IGHV3–83*02_S3364

11 sequences assigned
4 (36.4%) exact matches, in which:
4 unique CDR3
2 unique J



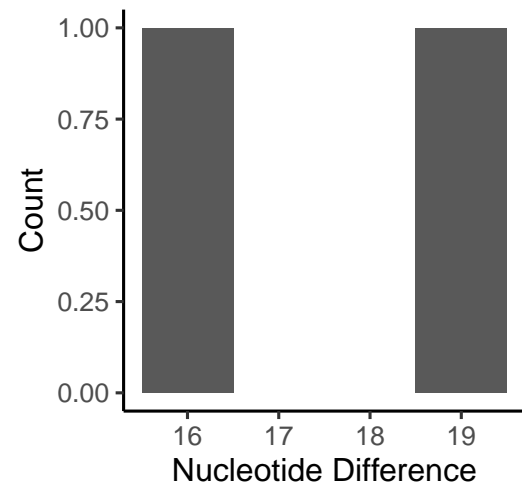
IGHV3–100*01_S4375

16 sequences assigned
No exact matches.



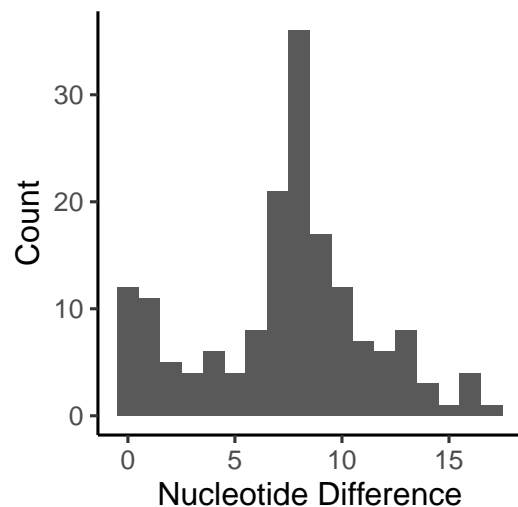
IGHV3–103*01_S1165

3 sequences assigned
No exact matches.



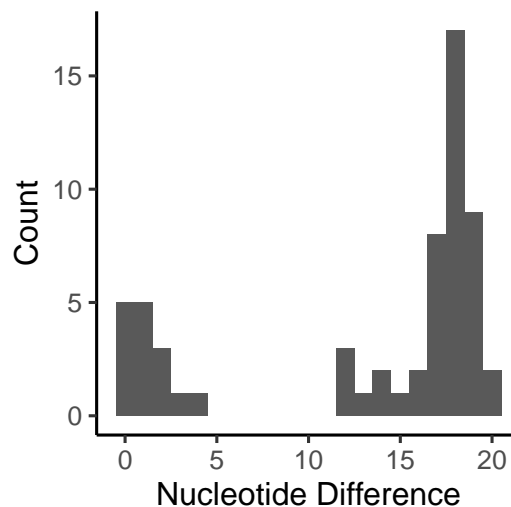
IGHV3–87*01_S2131

168 sequences assigned
12 (7.1%) exact matches, in which:
9 unique CDR3
3 unique J



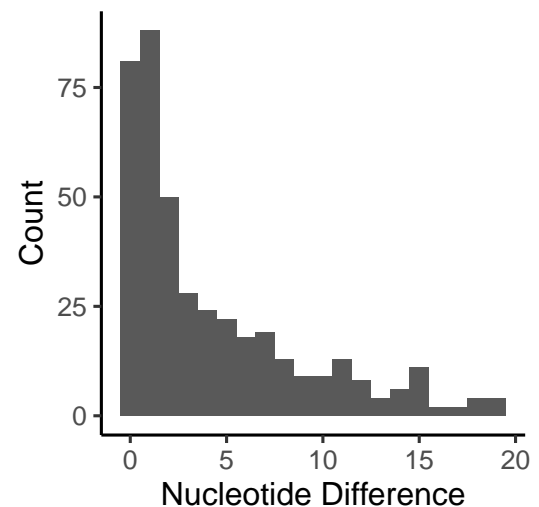
IGHV3–100*01_S5468

69 sequences assigned
5 (7.2%) exact matches, in which:
5 unique CDR3
2 unique J



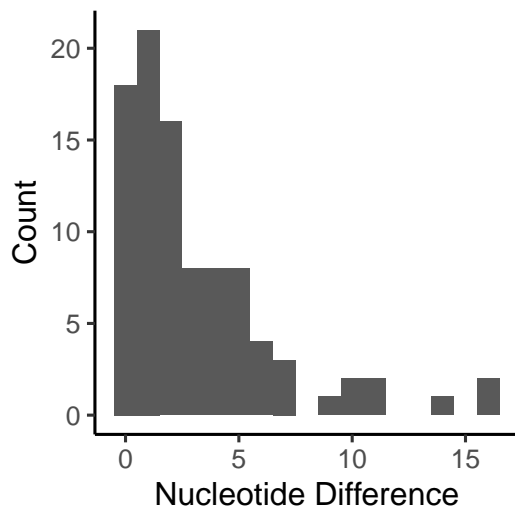
IGHV3–119*01_S5944

426 sequences assigned
81 (19%) exact matches, in which:
56 unique CDR3
5 unique J



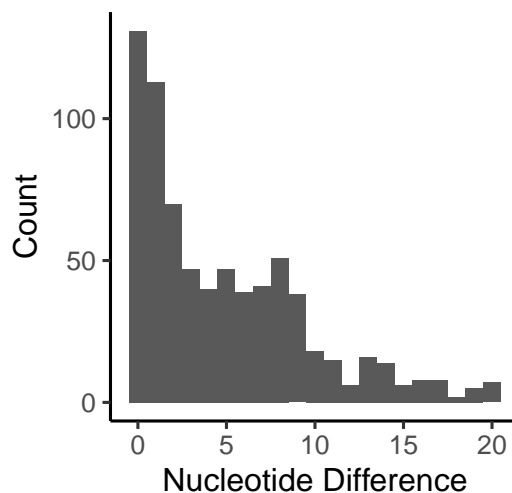
IGHV3-120*01_S7674

95 sequences assigned
18 (18.9%) exact matches, in which:
11 unique CDR3
3 unique J



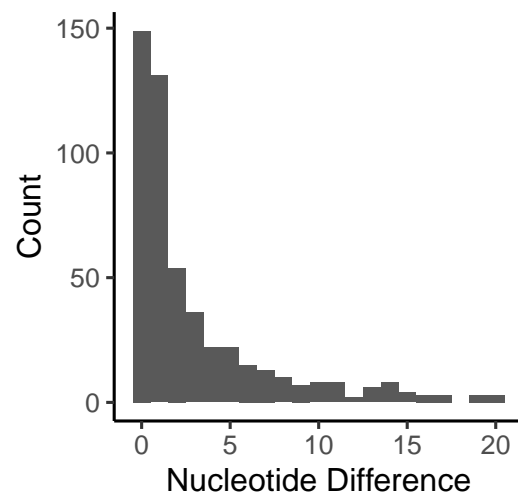
IGHV3-127*01_S3530

736 sequences assigned
131 (17.8%) exact matches, in which:
100 unique CDR3
9 unique J



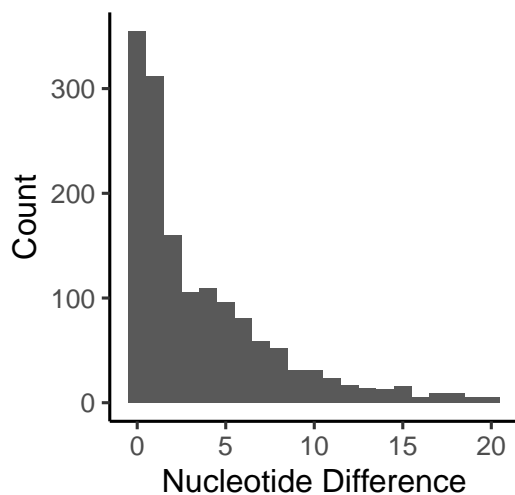
IGHV3-141*02_S0467

519 sequences assigned
149 (28.7%) exact matches, in which:
129 unique CDR3
7 unique J



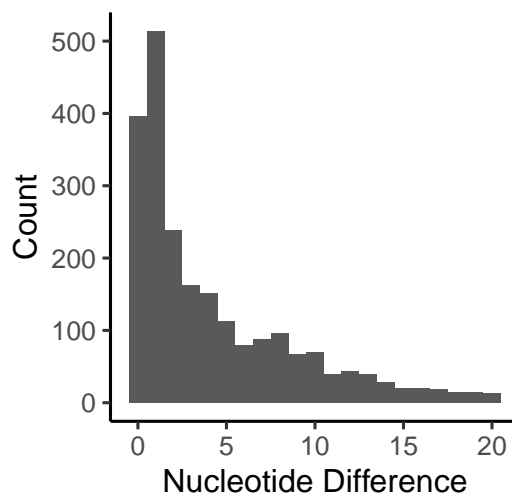
IGHV3-122*01_S0584

1535 sequences assigned
355 (23.1%) exact matches, in which:
257 unique CDR3
9 unique J



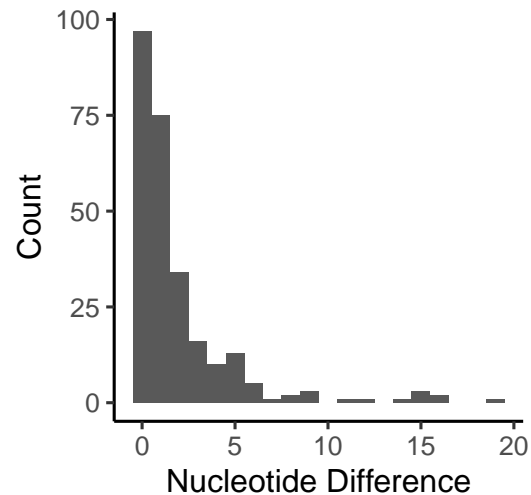
IGHV3-128*01_S3124

2283 sequences assigned
396 (17.3%) exact matches, in which:
260 unique CDR3
9 unique J



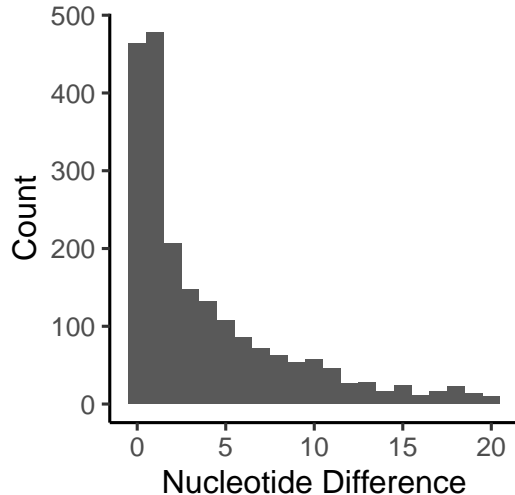
IGHV3-141*02_S4330

272 sequences assigned
97 (35.7%) exact matches, in which:
74 unique CDR3
7 unique J



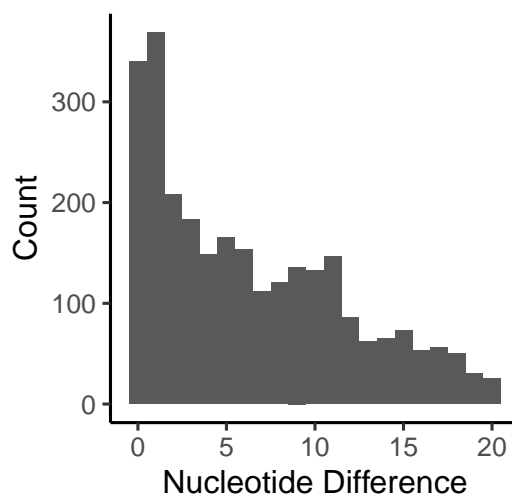
IGHV3-122*01_S8388

2116 sequences assigned
464 (21.9%) exact matches, in which:
361 unique CDR3
10 unique J



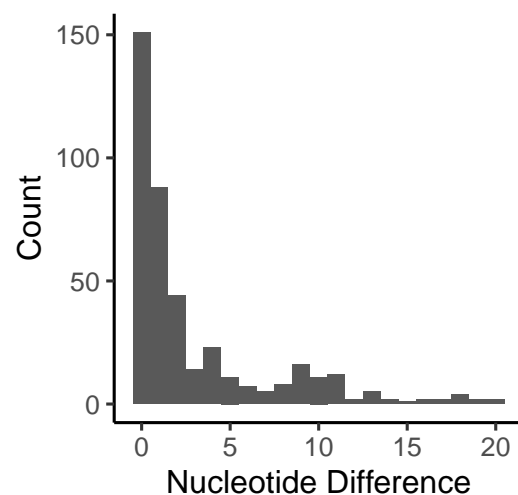
IGHV3-128*01_S5544

2858 sequences assigned
340 (11.9%) exact matches, in which:
239 unique CDR3
9 unique J



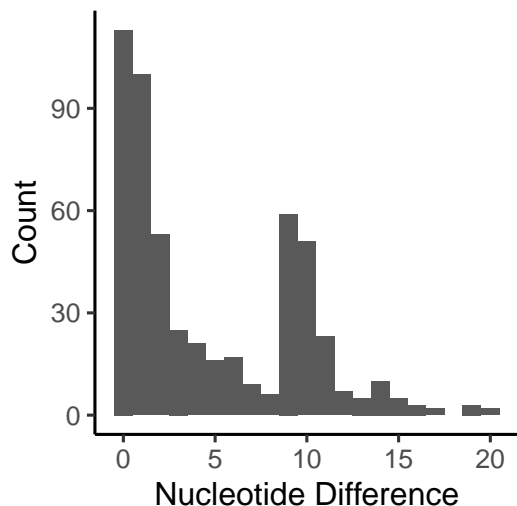
IGHV3-141*02_S7020

420 sequences assigned
151 (36%) exact matches, in which:
121 unique CDR3
8 unique J



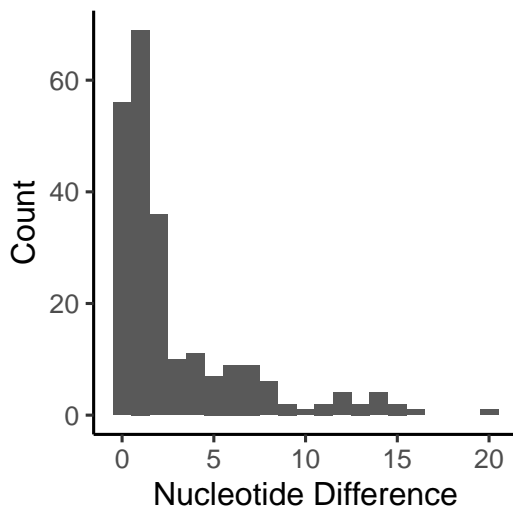
IGHV3-141*02_S7574

544 sequences assigned
113 (20.8%) exact matches, in which:
96 unique CDR3
9 unique J



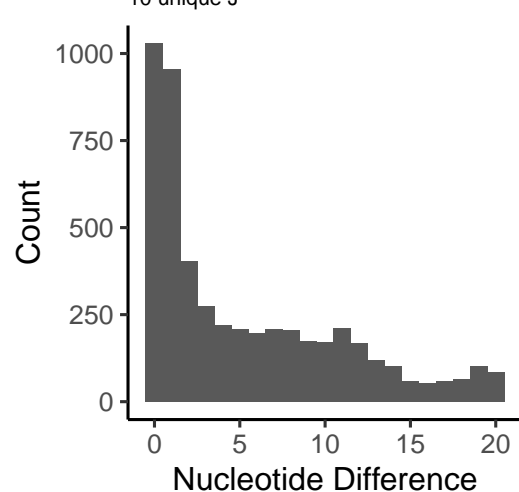
IGHV3-172*01_S1597

236 sequences assigned
56 (23.7%) exact matches, in which:
43 unique CDR3
7 unique J



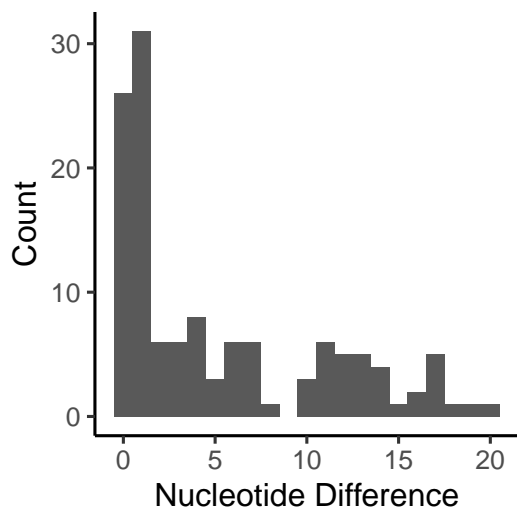
IGHV3-187*01_S1387

5421 sequences assigned
1029 (19%) exact matches, in which:
756 unique CDR3
10 unique J



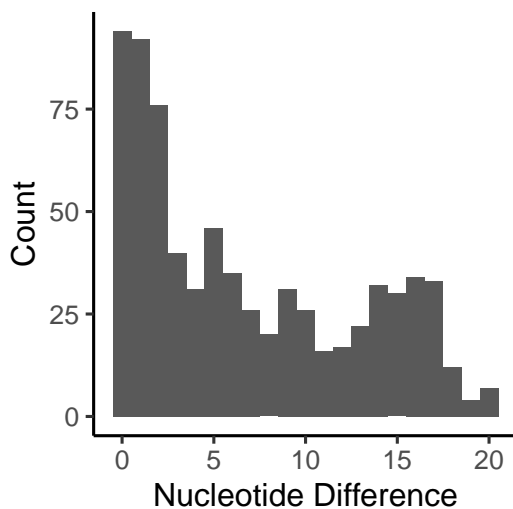
IGHV3-143*01_S1591

204 sequences assigned
26 (12.7%) exact matches, in which:
17 unique CDR3
5 unique J



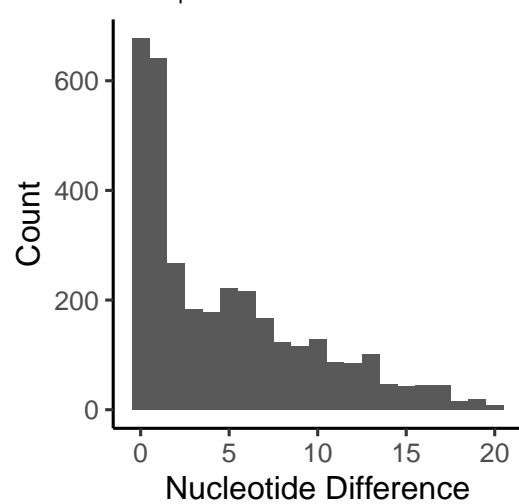
IGHV3-177*01_S2755

749 sequences assigned
94 (12.6%) exact matches, in which:
67 unique CDR3
6 unique J



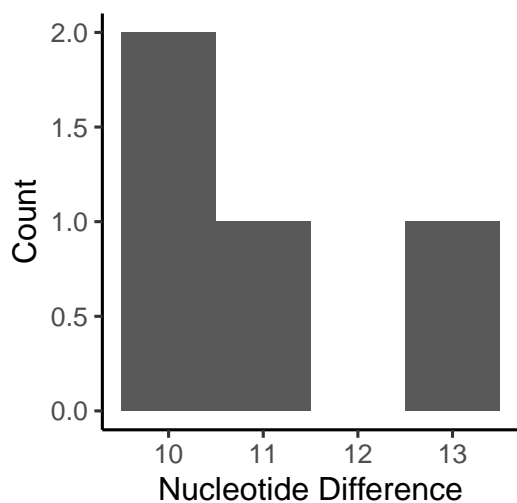
IGHV3-187*01_S6641

3496 sequences assigned
678 (19.4%) exact matches, in which:
493 unique CDR3
10 unique J



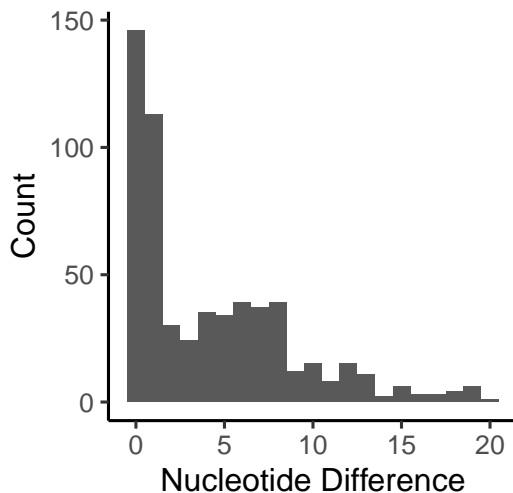
IGHV3-152*01_S7388

4 sequences assigned
No exact matches.



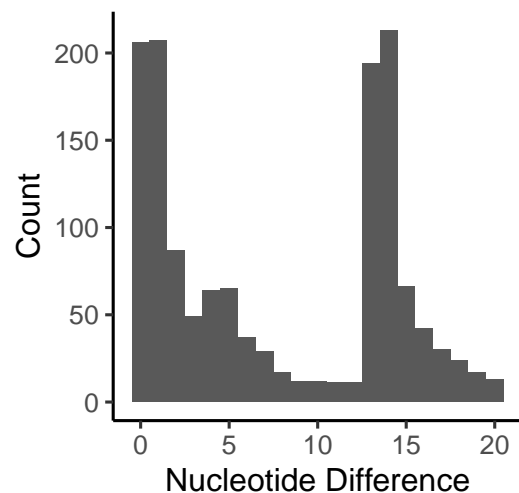
IGHV3-177*01_S8409

593 sequences assigned
146 (24.6%) exact matches, in which:
112 unique CDR3
7 unique J



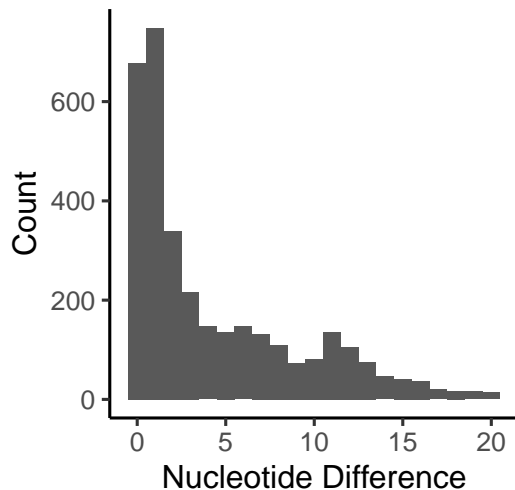
IGHV3-NL_1*01_S0448

1461 sequences assigned
206 (14.1%) exact matches, in which:
148 unique CDR3
9 unique J



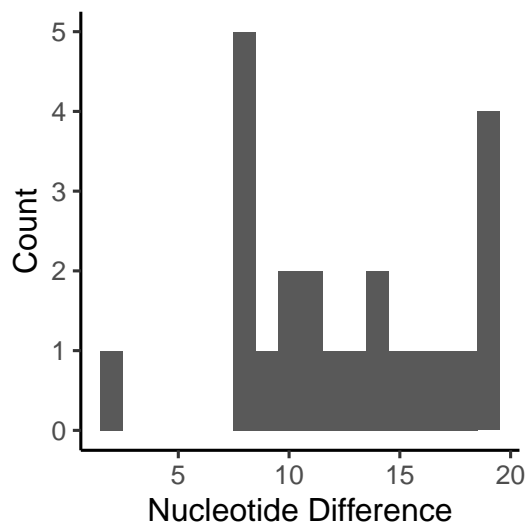
IGHV3–NL_1*01_S4906

3355 sequences assigned
678 (20.2%) exact matches, in which:
476 unique CDR3
9 unique J



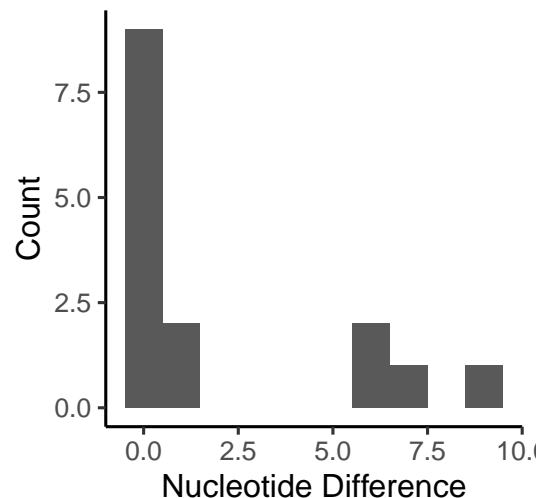
IGHV3–NL_11*01_S4102

31 sequences assigned
No exact matches.



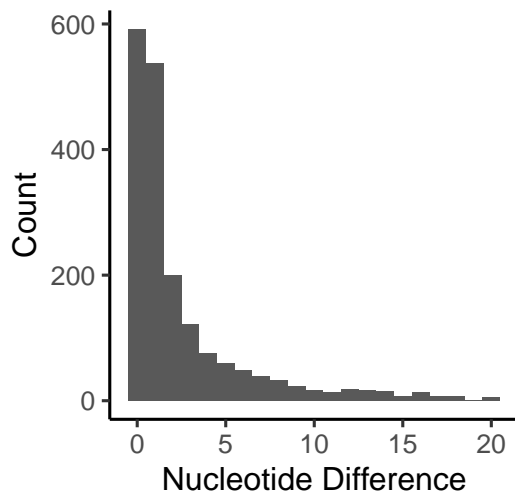
IGHV3–NL_12*02_S5246

16 sequences assigned
9 (56.2%) exact matches, in which:
9 unique CDR3
4 unique J



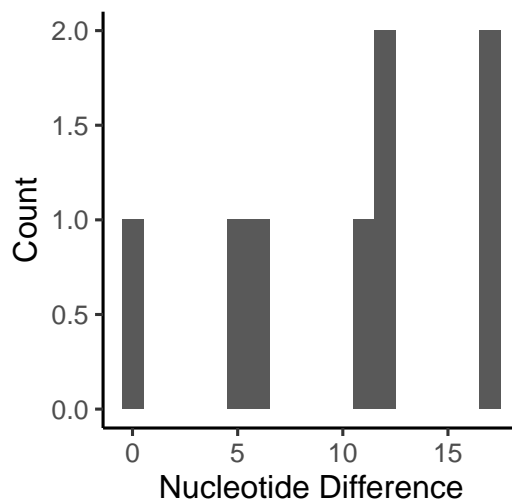
IGHV3–NL_1*01_S6560

1881 sequences assigned
592 (31.5%) exact matches, in which:
431 unique CDR3
7 unique J



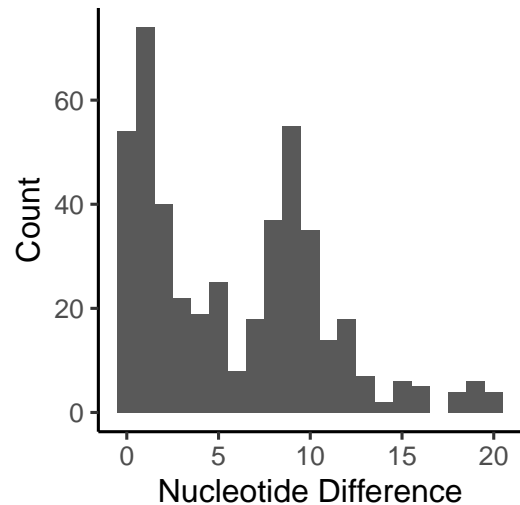
IGHV3–NL_11*01_S4380

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



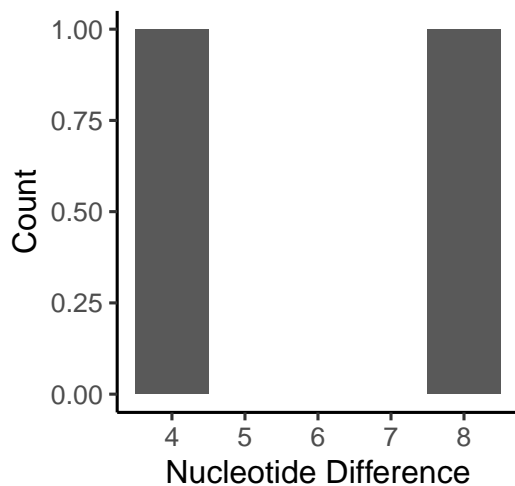
IGHV3–NL_13*01_S3277

466 sequences assigned
54 (11.6%) exact matches, in which:
39 unique CDR3
5 unique J



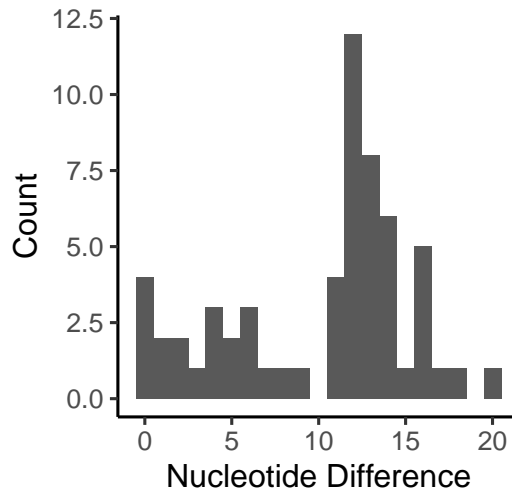
IGHV3–NL_11*01_S3004

3 sequences assigned
No exact matches.



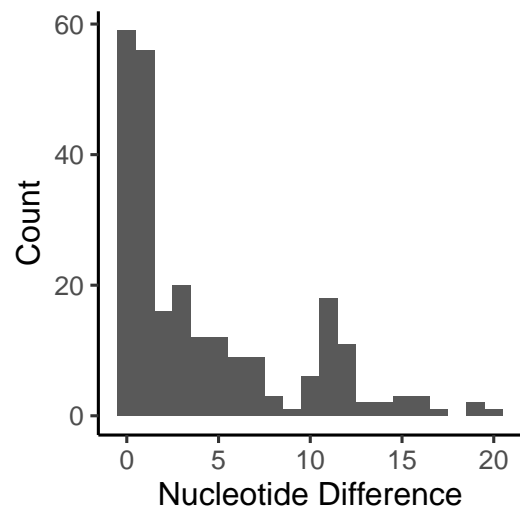
IGHV3–NL_12*02_S3129

61 sequences assigned
4 (6.6%) exact matches, in which:
3 unique CDR3
2 unique J



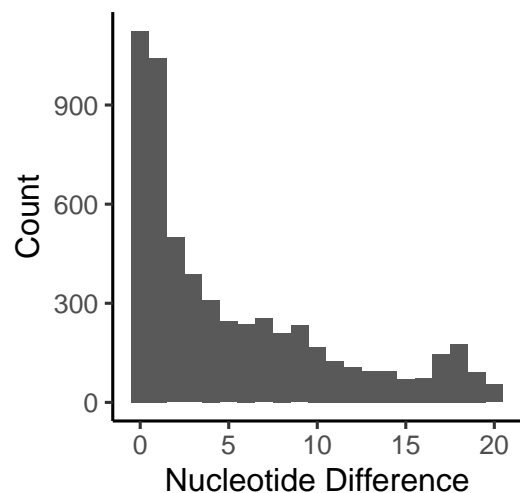
IGHV3–NL_16*01_S7722

252 sequences assigned
59 (23.4%) exact matches, in which:
44 unique CDR3
9 unique J



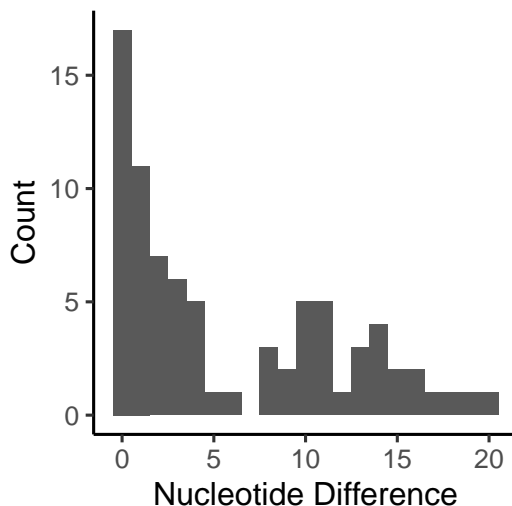
IGHV3–NL_17*01_S0120

5916 sequences assigned
1125 (19%) exact matches, in which:
814 unique CDR3
10 unique J



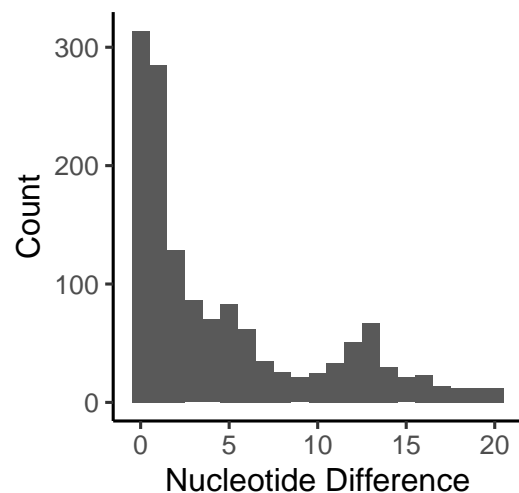
IGHV3–NL_2*01_S7567

86 sequences assigned
17 (19.8%) exact matches, in which:
14 unique CDR3
4 unique J



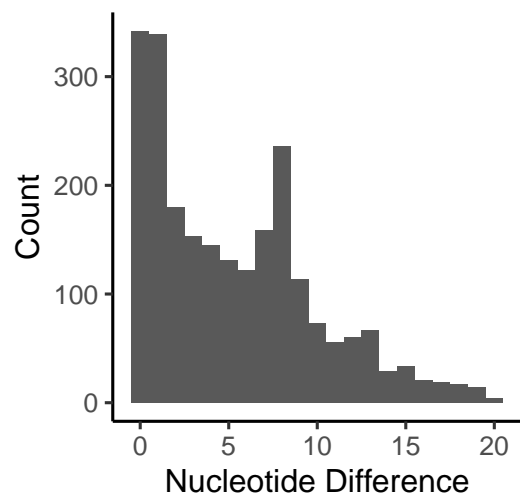
IGHV3–NL_5*01_S4429

1506 sequences assigned
314 (20.8%) exact matches, in which:
218 unique CDR3
8 unique J



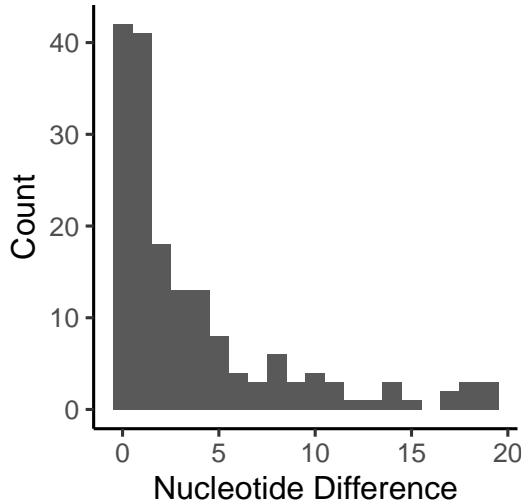
IGHV3–NL_17*01_S4250

2450 sequences assigned
342 (14%) exact matches, in which:
245 unique CDR3
7 unique J



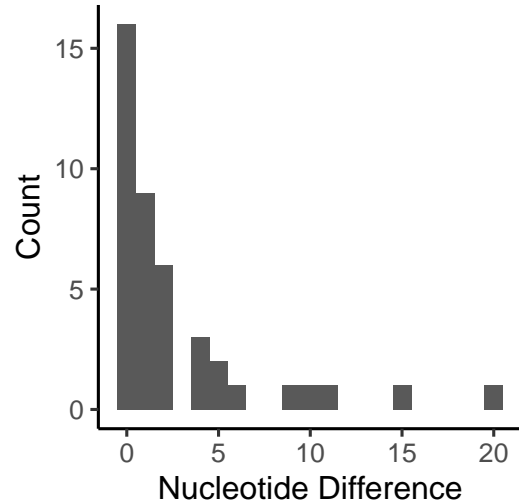
IGHV3–NL_3*02_S6269

175 sequences assigned
42 (24%) exact matches, in which:
37 unique CDR3
5 unique J



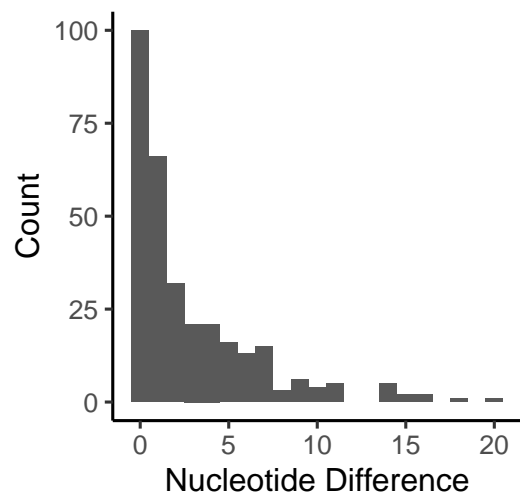
IGHV3–NL_6*02_S6474

44 sequences assigned
16 (36.4%) exact matches, in which:
14 unique CDR3
4 unique J



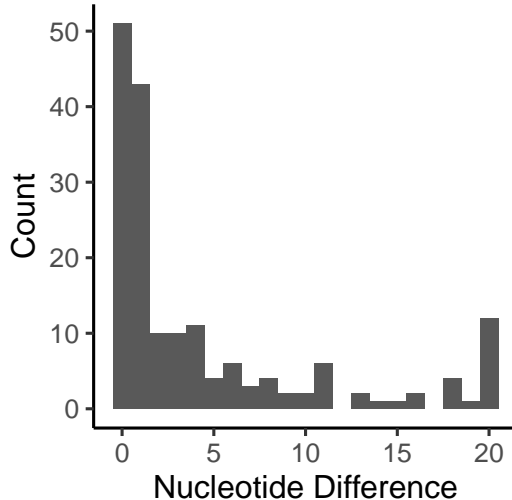
IGHV3–NL_18*01_S7220

315 sequences assigned
100 (31.7%) exact matches, in which:
83 unique CDR3
7 unique J



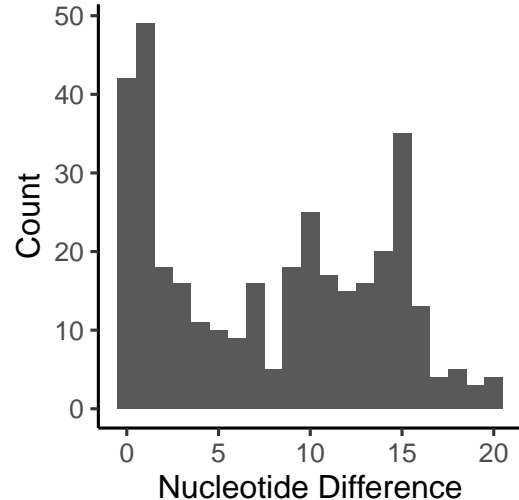
IGHV3–NL_4*01_S6875

212 sequences assigned
51 (24.1%) exact matches, in which:
34 unique CDR3
5 unique J



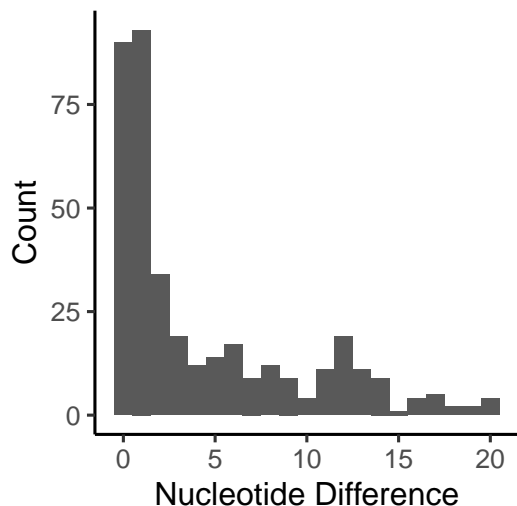
IGHV3–NL_8*01_S7474

428 sequences assigned
42 (9.8%) exact matches, in which:
36 unique CDR3
6 unique J



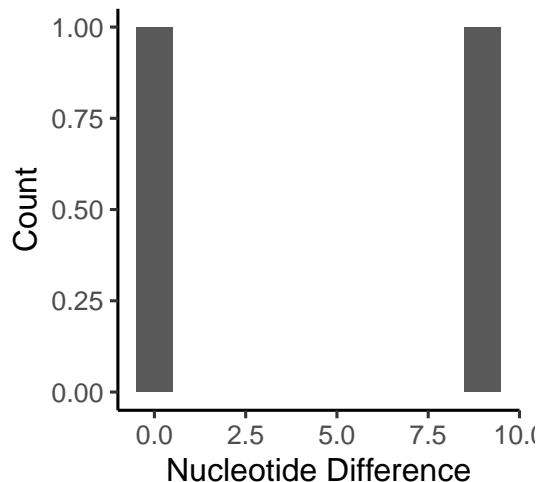
IGHV3–NL_8*01_S9584

382 sequences assigned
90 (23.6%) exact matches, in which:
61 unique CDR3
6 unique J



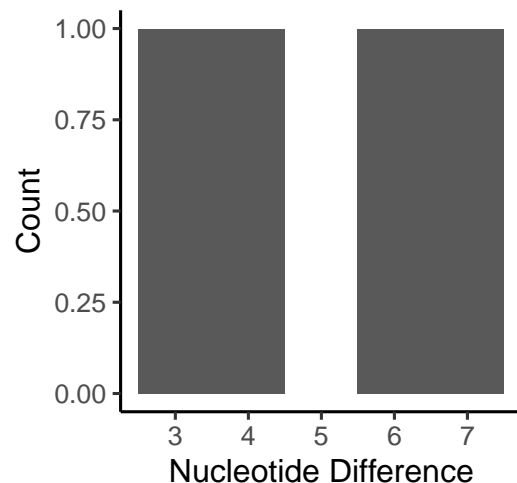
IGHV4–67*02_S4494

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



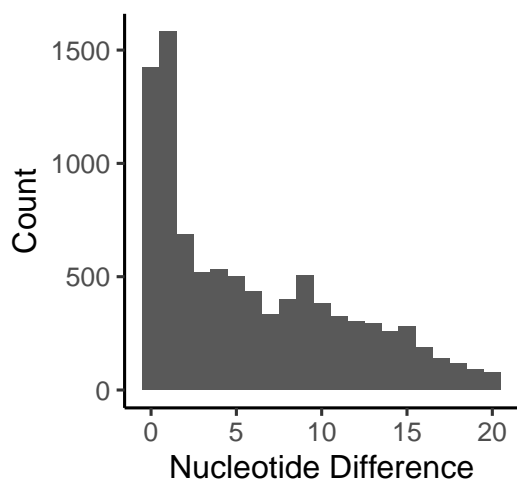
IGHV4–93*01_S5203

6 sequences assigned
No exact matches.



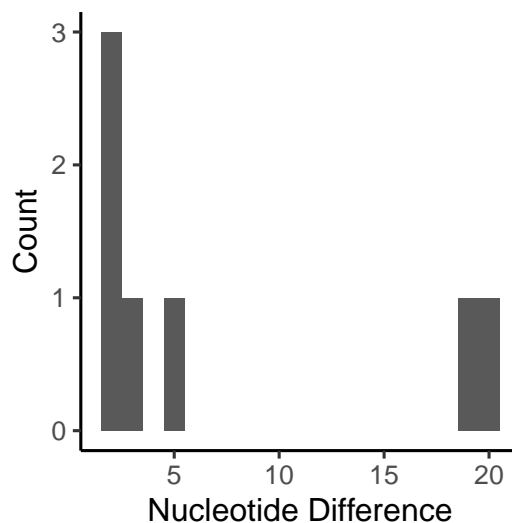
IGHV3–NL_9*01_S6098

9895 sequences assigned
1424 (14.4%) exact matches, in which:
1089 unique CDR3
11 unique J



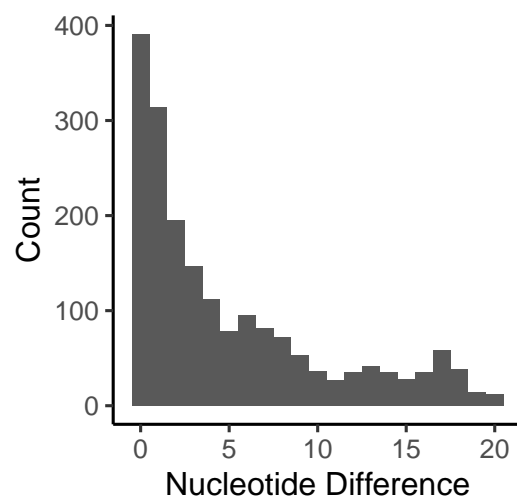
IGHV4–67*02_S6848

7 sequences assigned
No exact matches.



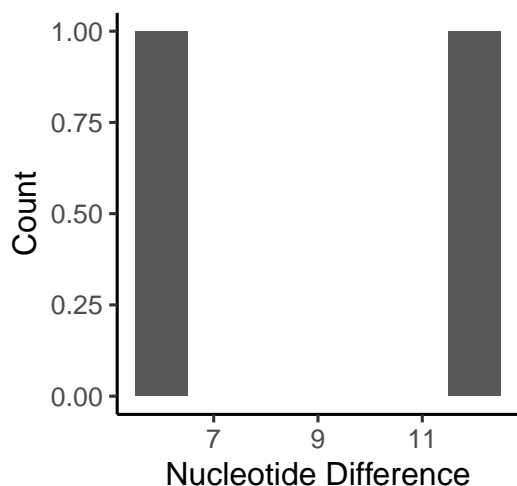
IGHV4–117*01_S1028

1968 sequences assigned
391 (19.9%) exact matches, in which:
338 unique CDR3
9 unique J



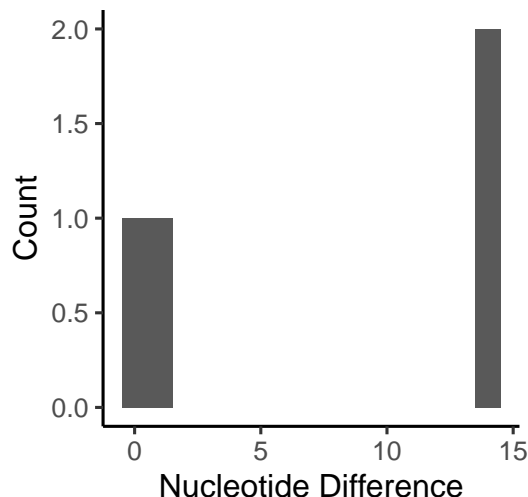
IGHV4–67*02_S1312

3 sequences assigned
No exact matches.



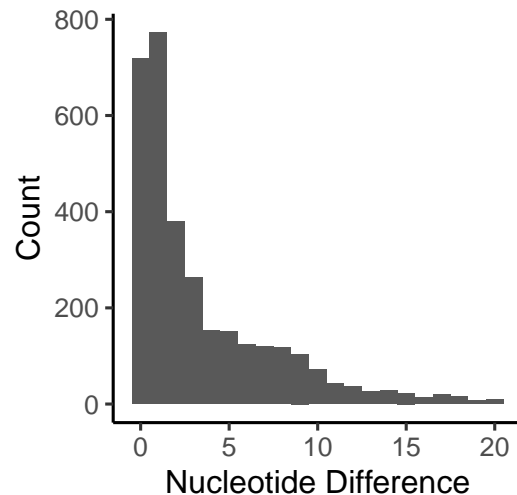
IGHV4–93*01_S1164

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



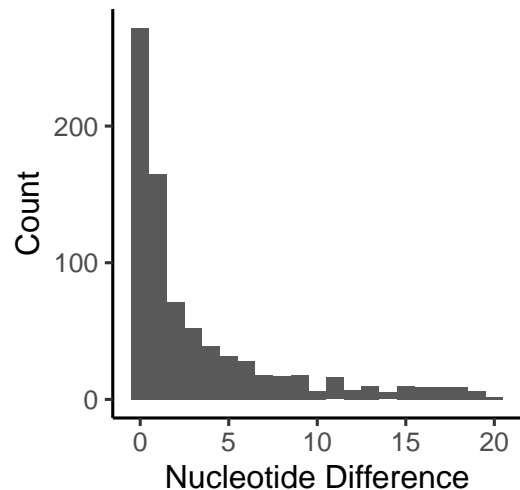
IGHV4–117*01_S2181

3277 sequences assigned
719 (21.9%) exact matches, in which:
629 unique CDR3
9 unique J



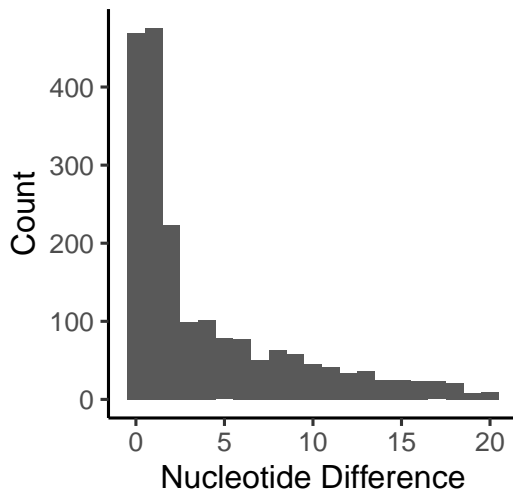
IGHV4-117*01_S6852

820 sequences assigned
272 (33.2%) exact matches, in which:
250 unique CDR3
8 unique J



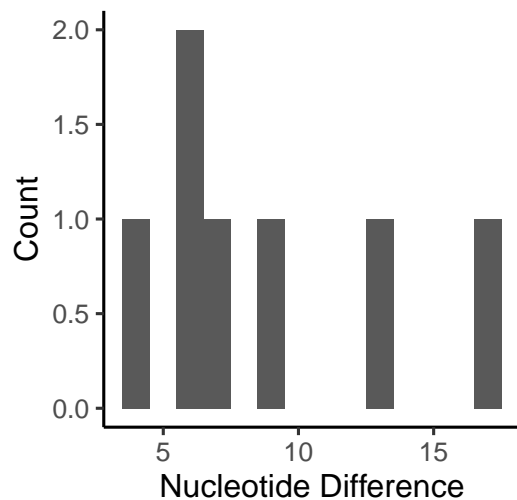
IGHV4-144*01_S6192

2041 sequences assigned
469 (23%) exact matches, in which:
416 unique CDR3
9 unique J



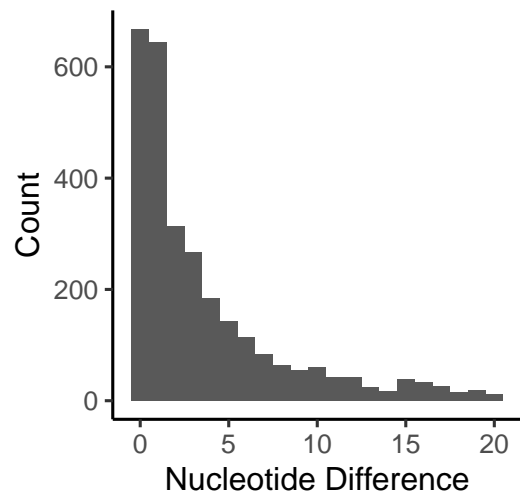
IGHV4-150*01_S0749

8 sequences assigned
No exact matches.



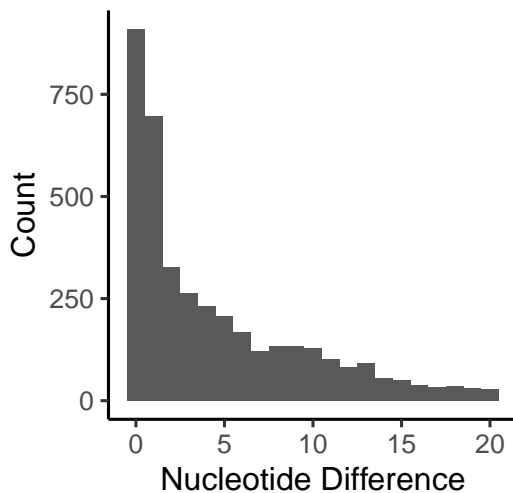
IGHV4-117*01_S7493

2951 sequences assigned
668 (22.6%) exact matches, in which:
587 unique CDR3
8 unique J



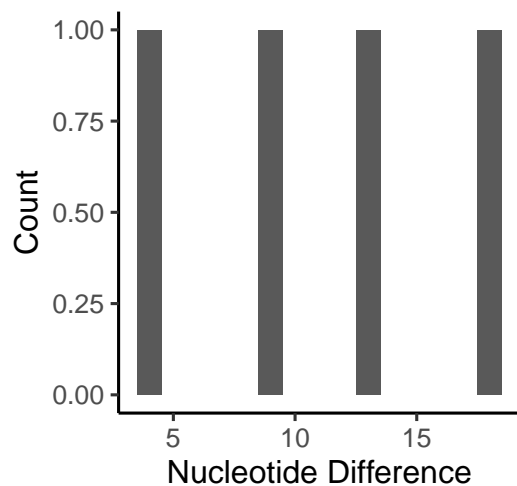
IGHV4-149*01_S4098

4013 sequences assigned
910 (22.7%) exact matches, in which:
784 unique CDR3
8 unique J



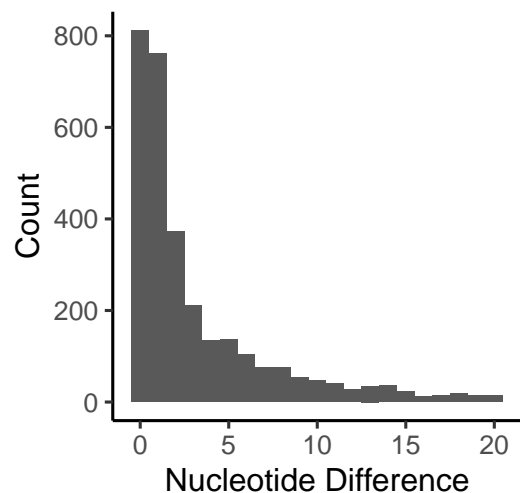
IGHV4-150*01_S0971

5 sequences assigned
No exact matches.



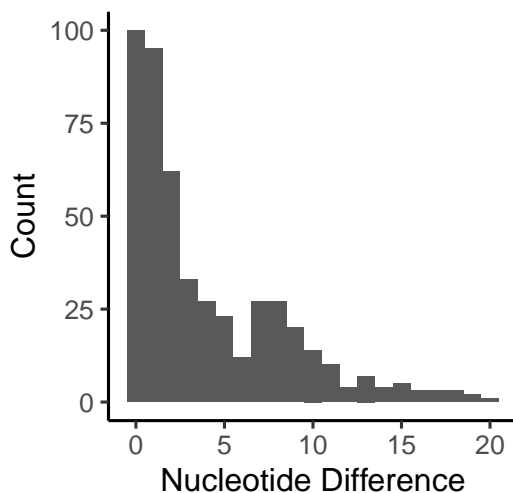
IGHV4-144*01_S0885

3113 sequences assigned
812 (26.1%) exact matches, in which:
695 unique CDR3
10 unique J



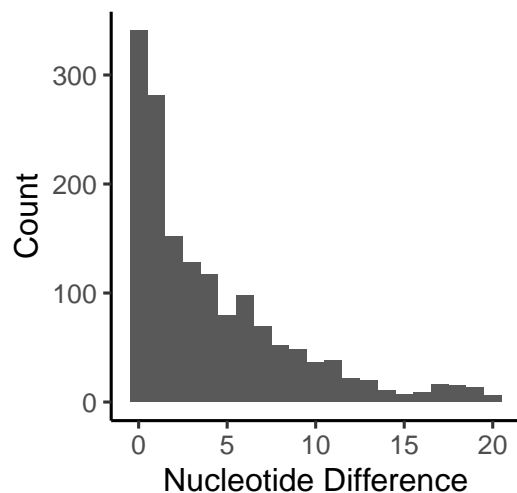
IGHV4-149*02_S8521_C

490 sequences assigned
100 (20.4%) exact matches, in which:
94 unique CDR3
8 unique J

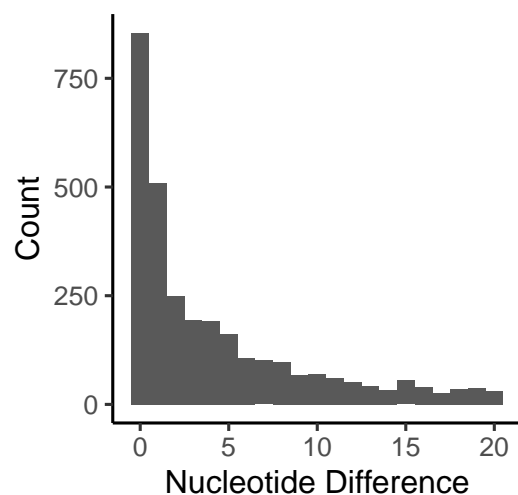


IGHV4-174*02_S7573

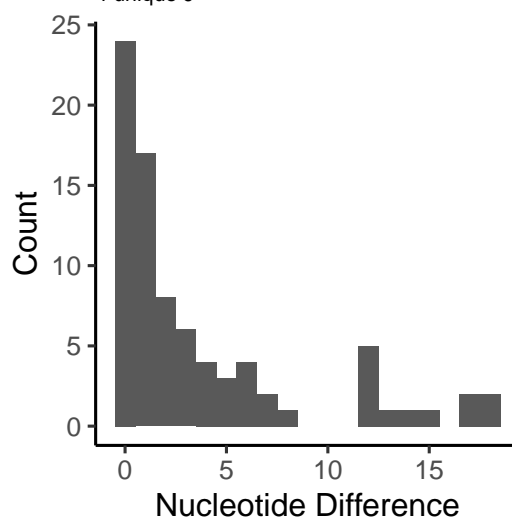
1603 sequences assigned
341 (21.3%) exact matches, in which:
282 unique CDR3
10 unique J



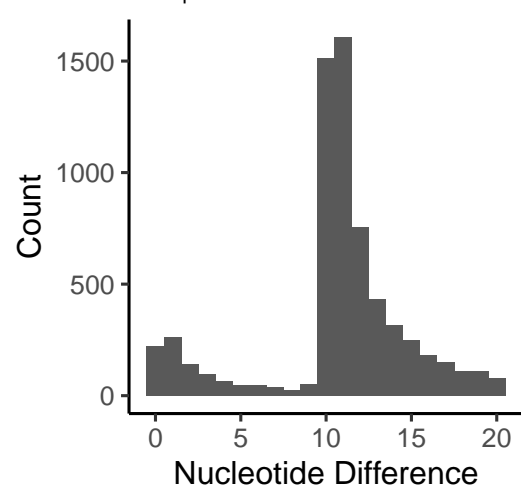
3145 sequences assigned
855 (27.2%) exact matches, in which:
724 unique CDR3
10 unique J



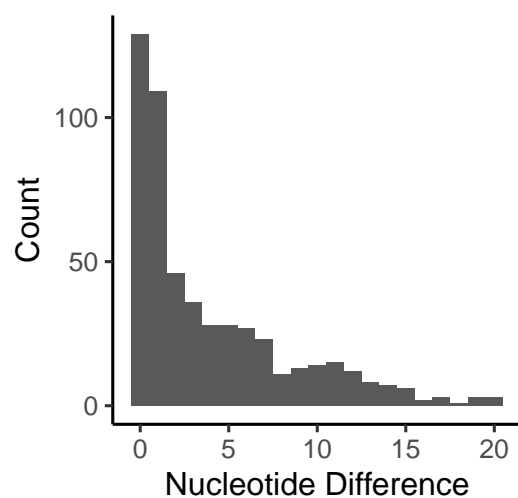
82 sequences assigned
24 (29.3%) exact matches, in which:
22 unique CDR3
4 unique J



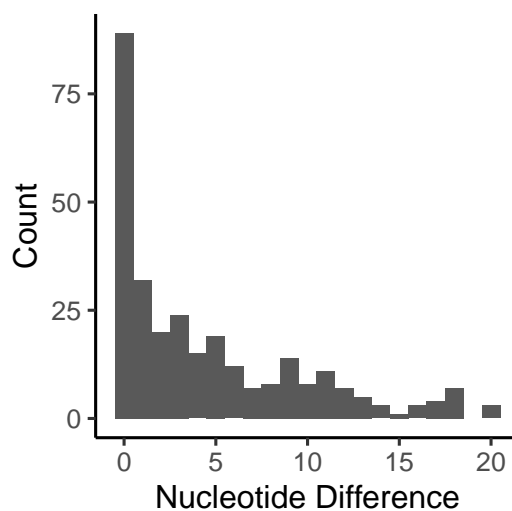
6842 sequences assigned
221 (3.2%) exact matches, in which:
195 unique CDR3
7 unique J



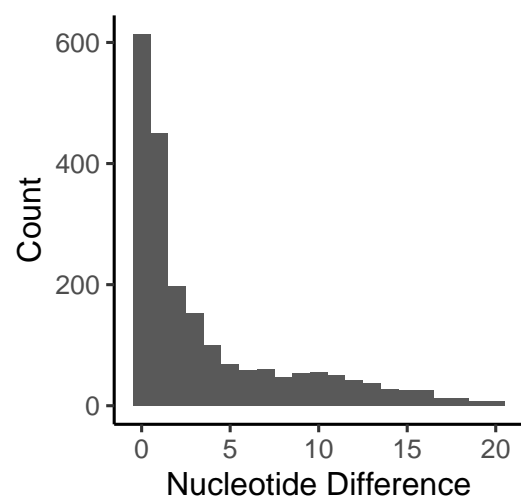
542 sequences assigned
129 (23.8%) exact matches, in which:
112 unique CDR3
7 unique J



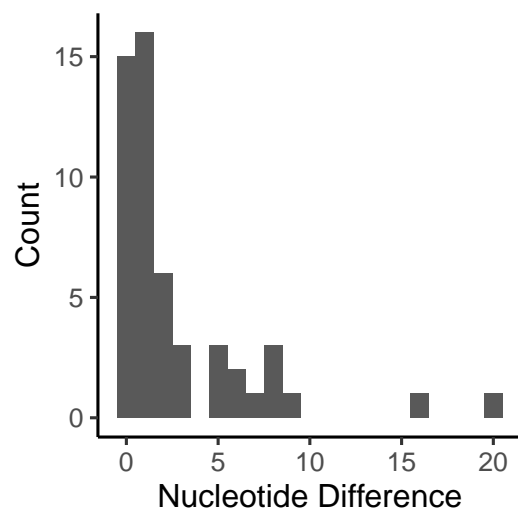
308 sequences assigned
89 (28.9%) exact matches, in which:
77 unique CDR3
8 unique J



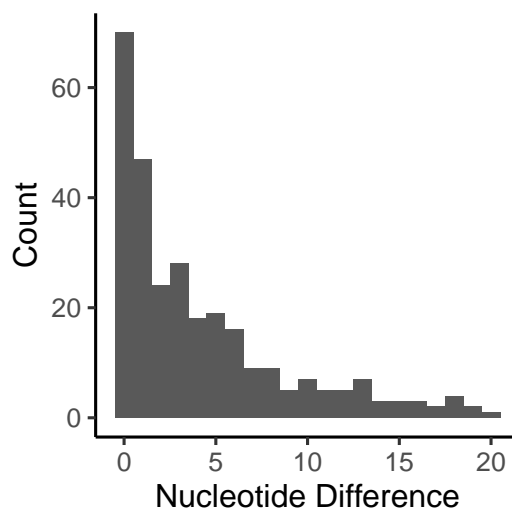
2155 sequences assigned
614 (28.5%) exact matches, in which:
559 unique CDR3
8 unique J



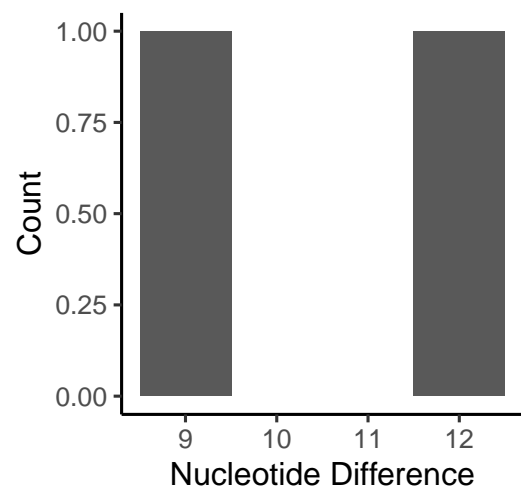
53 sequences assigned
15 (28.3%) exact matches, in which:
13 unique CDR3
4 unique J



300 sequences assigned
70 (23.3%) exact matches, in which:
66 unique CDR3
7 unique J

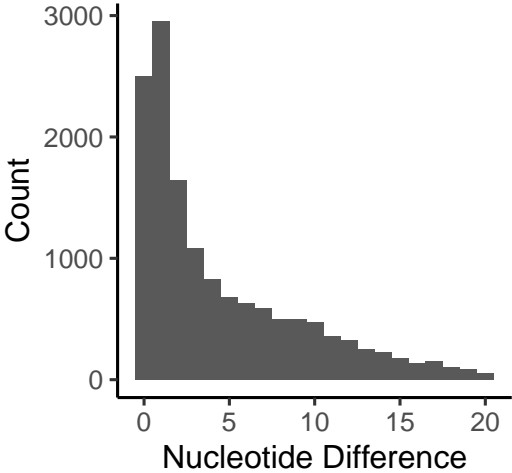


2 sequences assigned
No exact matches.



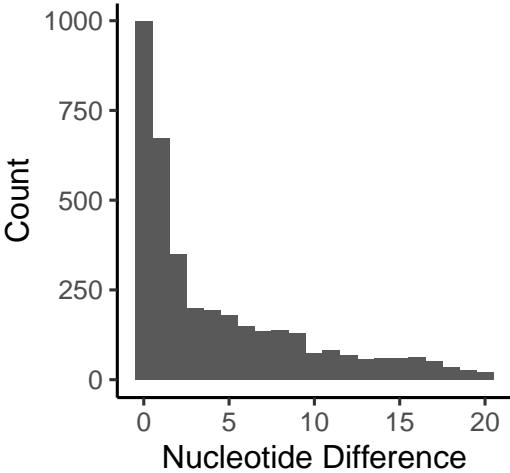
IGHV4-NL_16*01_S213

14703 sequences assigned
2501 (17%) exact matches, in which:
2090 unique CDR3
12 unique J



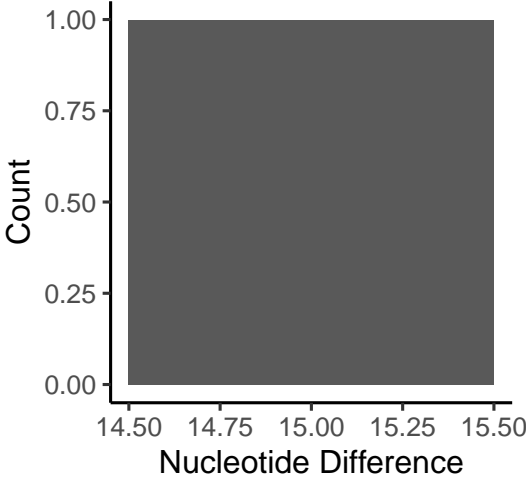
IGHV4-NL_18*01_S390

3963 sequences assigned
998 (25.2%) exact matches, in which:
867 unique CDR3
11 unique J



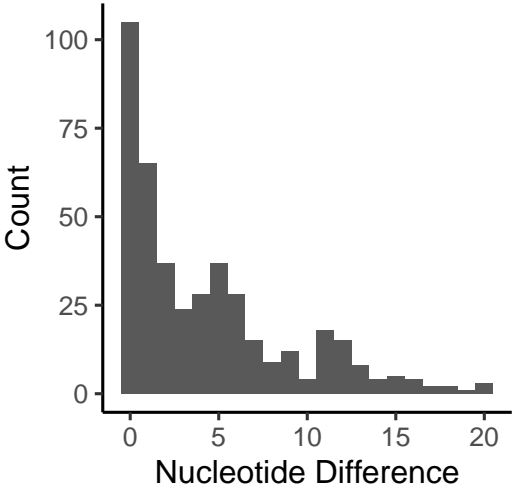
IGHV4-NL_21*01_S5257

1 sequences assigned
No exact matches.



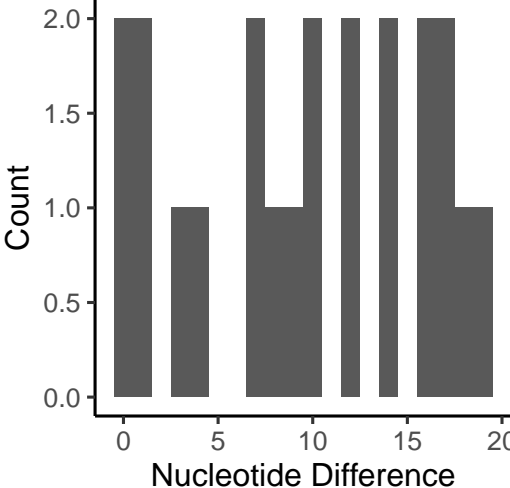
IGHV4-NL_17*01_S7793

441 sequences assigned
105 (23.8%) exact matches, in which:
90 unique CDR3
8 unique J



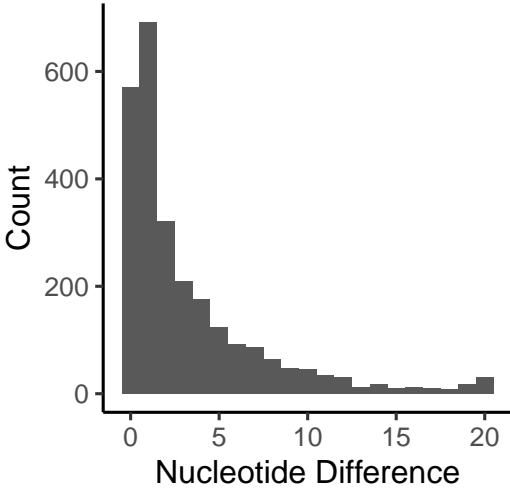
IGHV4-NL_21*01_S0138

28 sequences assigned
2 (7.1%) exact matches, in which:
2 unique CDR3
2 unique J



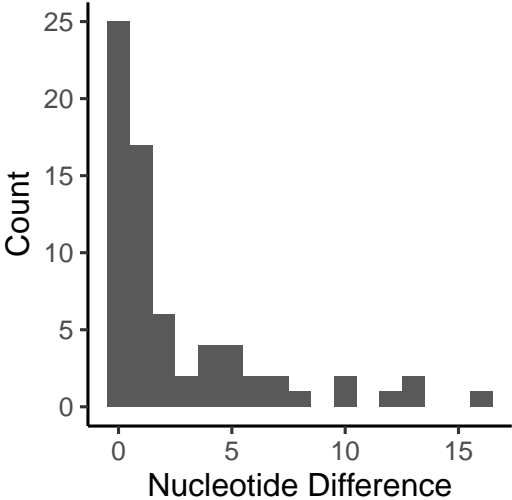
IGHV4-NL_22*01_S2393

2705 sequences assigned
571 (21.1%) exact matches, in which:
519 unique CDR3
8 unique J



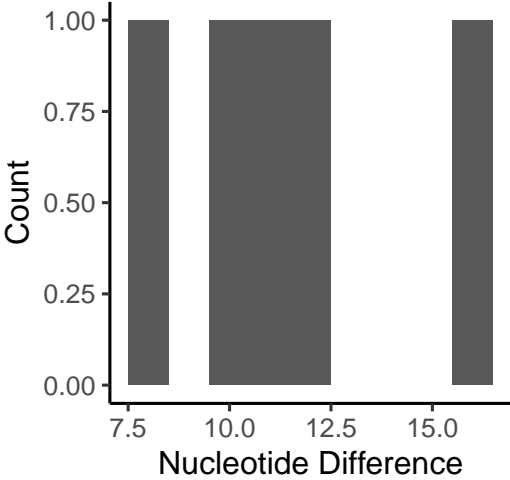
IGHV4-NL_17*01_S7793_1701_S7793

69 sequences assigned
25 (36.2%) exact matches, in which:
25 unique CDR3
3 unique J



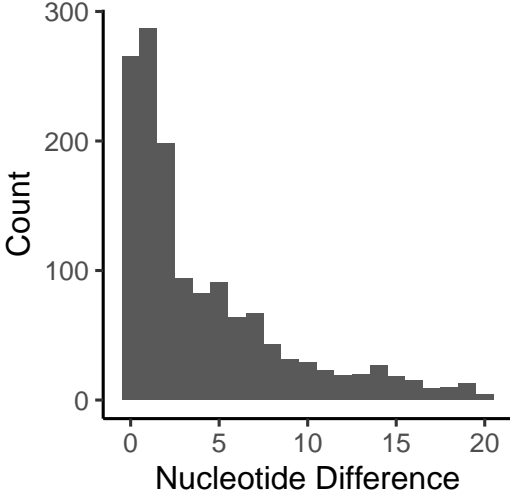
IGHV4-NL_21*01_S3442

7 sequences assigned
No exact matches.



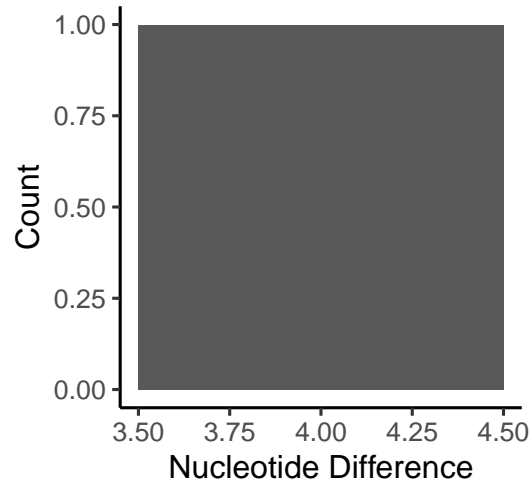
IGHV4-NL_22*01_S2464

1442 sequences assigned
265 (18.4%) exact matches, in which:
245 unique CDR3
8 unique J



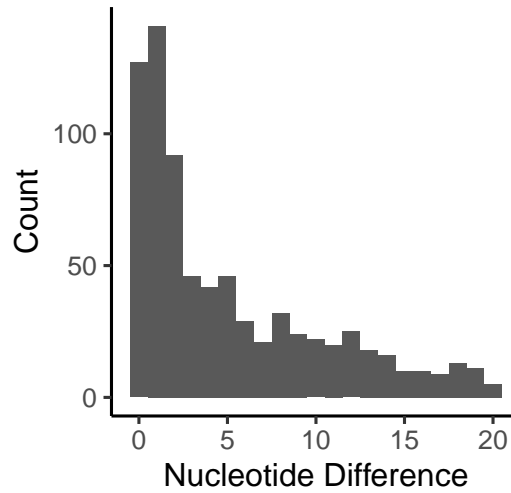
IGHV4-NL_24*01_S5697

1 sequences assigned
No exact matches.



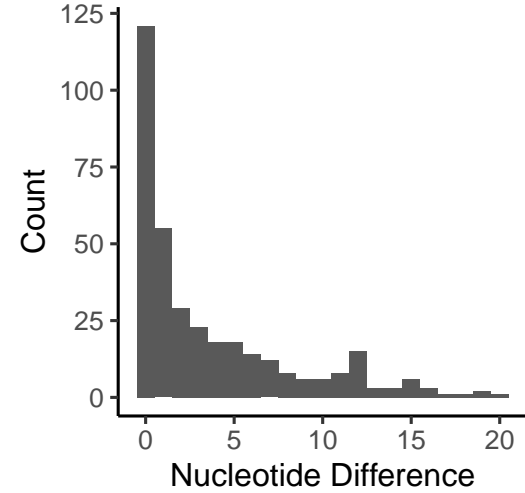
IGHV4-NL_27*01_S2222

792 sequences assigned
127 (16%) exact matches, in which:
102 unique CDR3
7 unique J



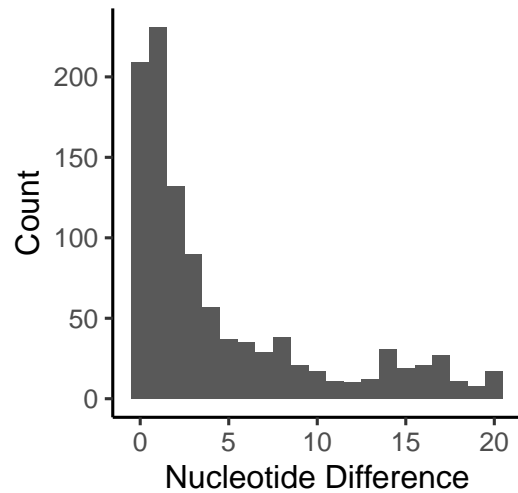
IGHV4-NL_28*01_S1005

375 sequences assigned
121 (32.3%) exact matches, in which:
114 unique CDR3
7 unique J



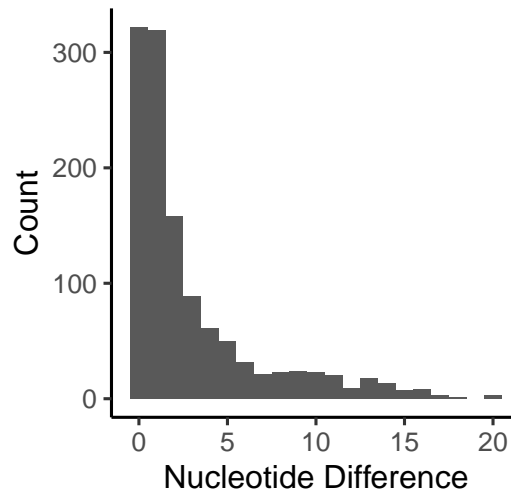
IGHV4-NL_25*01_S1514

1202 sequences assigned
209 (17.4%) exact matches, in which:
182 unique CDR3
7 unique J



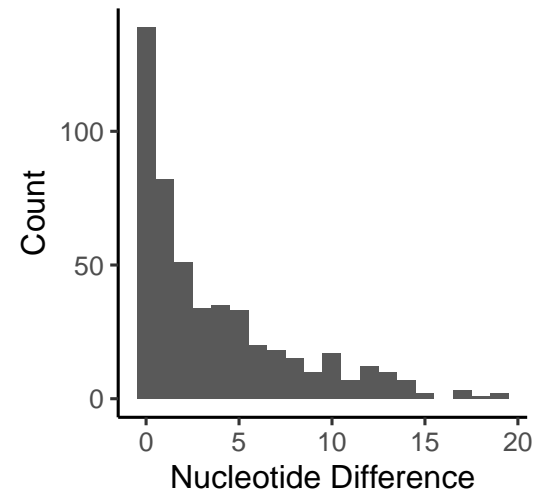
IGHV4-NL_27*01_S5720

1209 sequences assigned
322 (26.6%) exact matches, in which:
288 unique CDR3
7 unique J



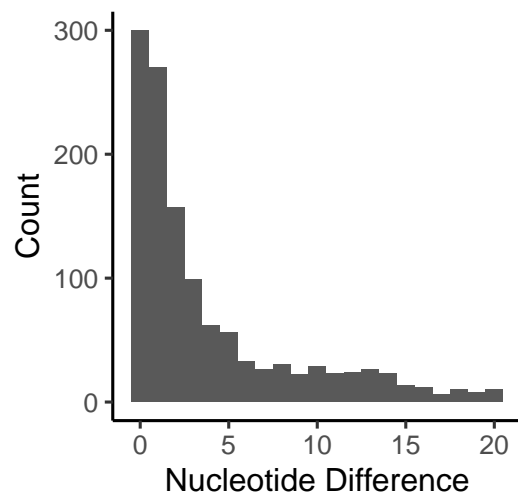
IGHV4-NL_28*01_S1005

532 sequences assigned
139 (26.1%) exact matches, in which:
130 unique CDR3
7 unique J



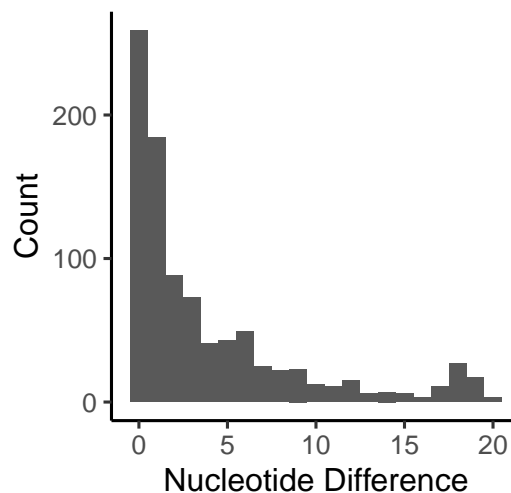
IGHV4-NL_27*01_S1515

1273 sequences assigned
300 (23.6%) exact matches, in which:
245 unique CDR3
7 unique J



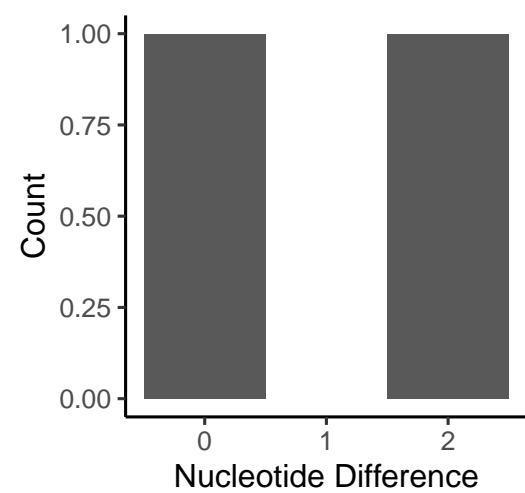
IGHV4-NL_27*01_S6960

960 sequences assigned
259 (27%) exact matches, in which:
219 unique CDR3
9 unique J



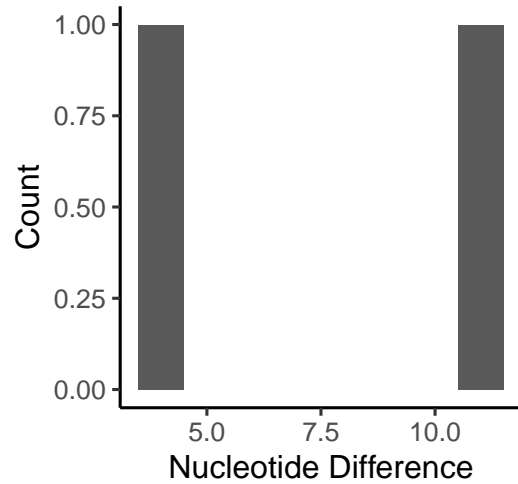
IGHV4-NL_29*01_S3767

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



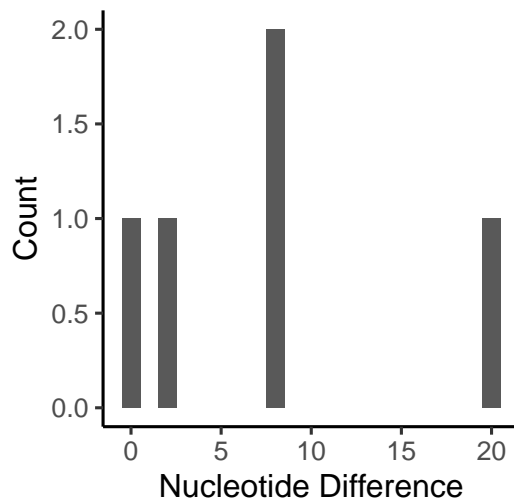
IGHV4-NL_3*01_S5200

2 sequences assigned
No exact matches.



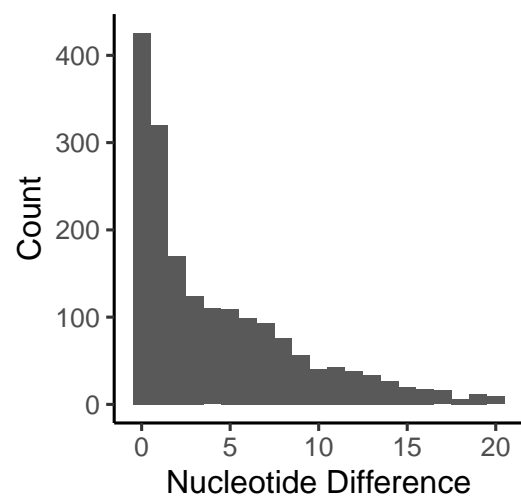
IGHV4-NL_31*01_S7693

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



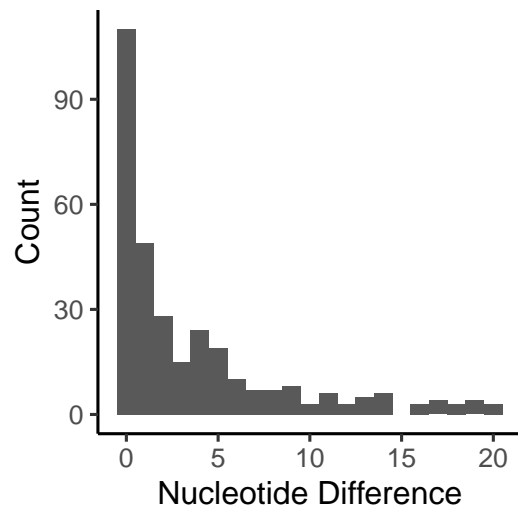
IGHV4-NL_36*01_S7581

1898 sequences assigned
426 (22.4%) exact matches, in which:
375 unique CDR3
10 unique J



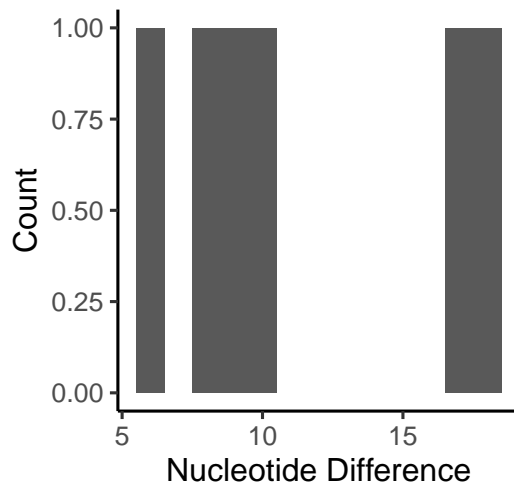
IGHV4-NL_30*01_S1240

335 sequences assigned
110 (32.8%) exact matches, in which:
101 unique CDR3
7 unique J



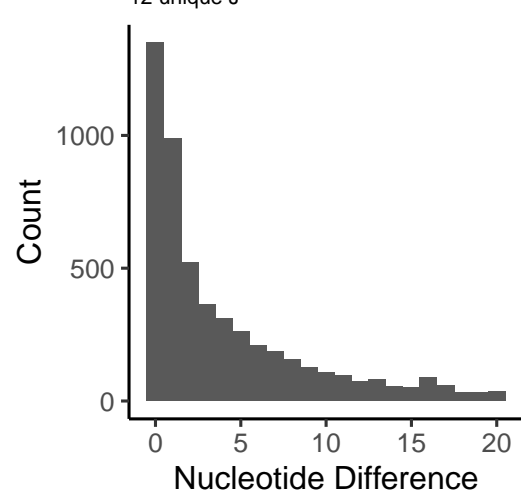
IGHV4-NL_32*01_S1450

8 sequences assigned
No exact matches.



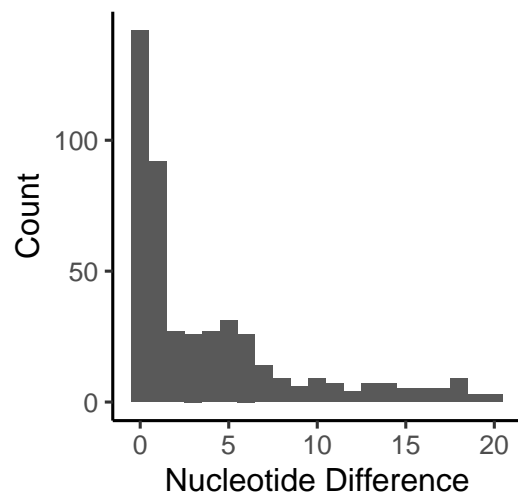
IGHV4-NL_36*01_S964

5538 sequences assigned
1349 (24.4%) exact matches, in which:
1135 unique CDR3
12 unique J



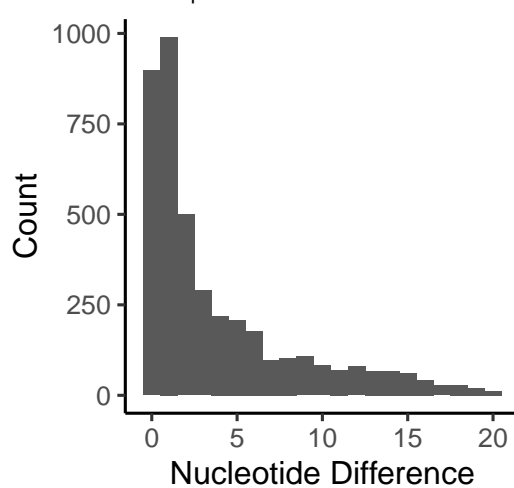
IGHV4-NL_30*01_S1240

483 sequences assigned
142 (29.4%) exact matches, in which:
131 unique CDR3
7 unique J



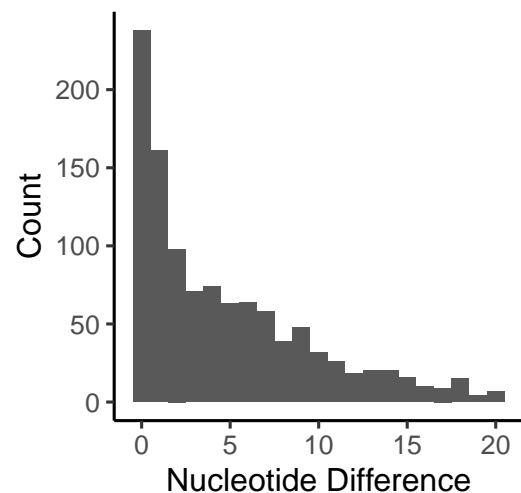
IGHV4-NL_33*01_S958

4230 sequences assigned
898 (21.2%) exact matches, in which:
802 unique CDR3
11 unique J



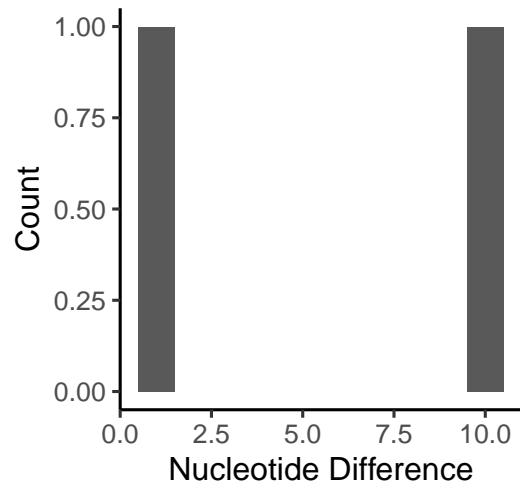
IGHV4-NL_36*01_S9894

1206 sequences assigned
238 (19.7%) exact matches, in which:
213 unique CDR3
9 unique J



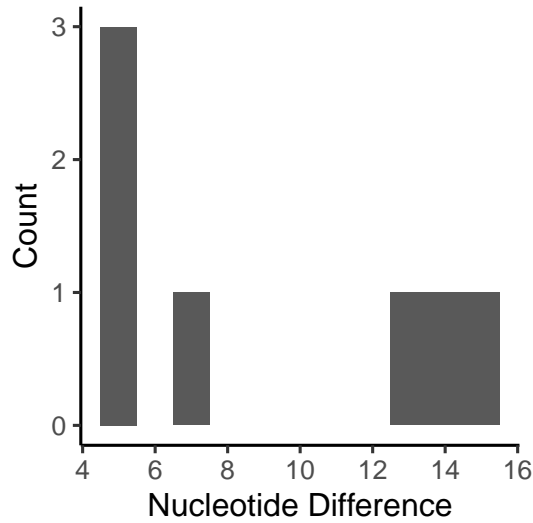
IGHV4-NL_37*01_S0997

2 sequences assigned
No exact matches.



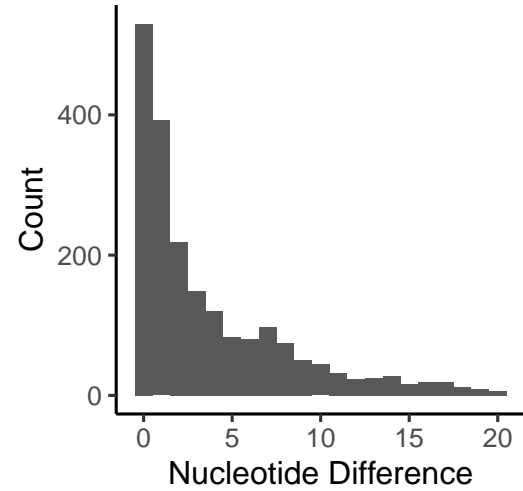
IGHV4-NL_4*01_S5211

8 sequences assigned
No exact matches.



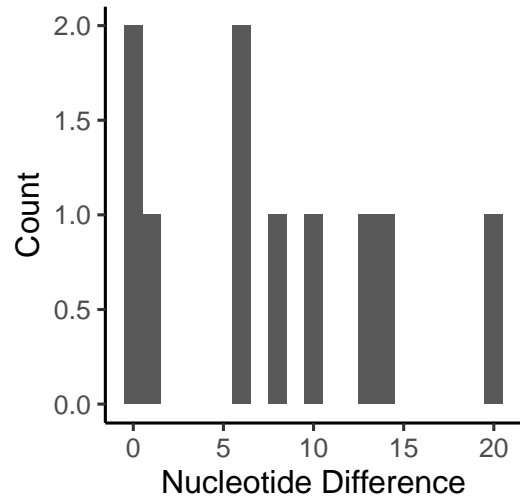
IGHV4-NL_42*01_S8550

2063 sequences assigned
530 (25.7%) exact matches, in which:
461 unique CDR3
9 unique J



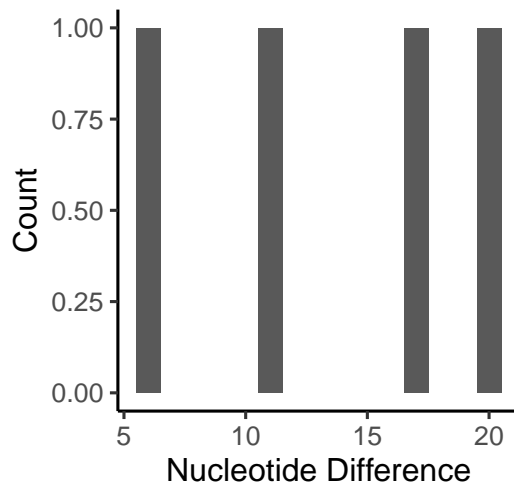
IGHV4-NL_38*01_S8437

11 sequences assigned
2 (18.2%) exact matches, in which:
2 unique CDR3
1 unique J



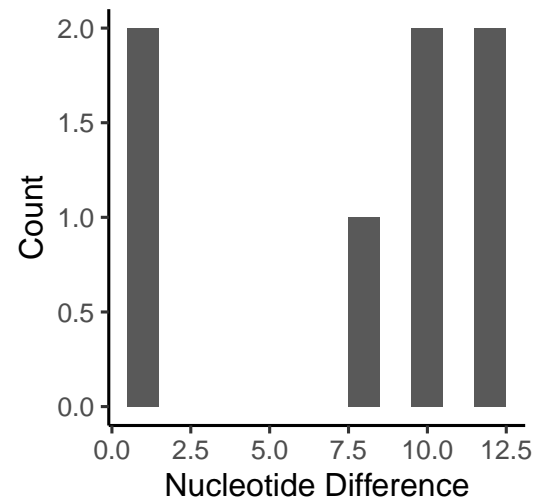
IGHV4-NL_40*01_S9020

4 sequences assigned
No exact matches.



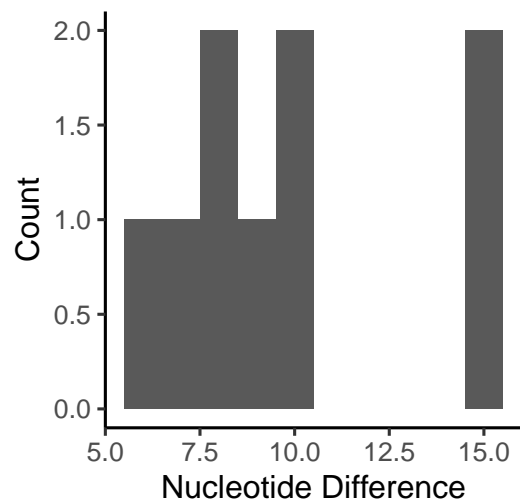
IGHV4-NL_43*01_S3820

7 sequences assigned
No exact matches.



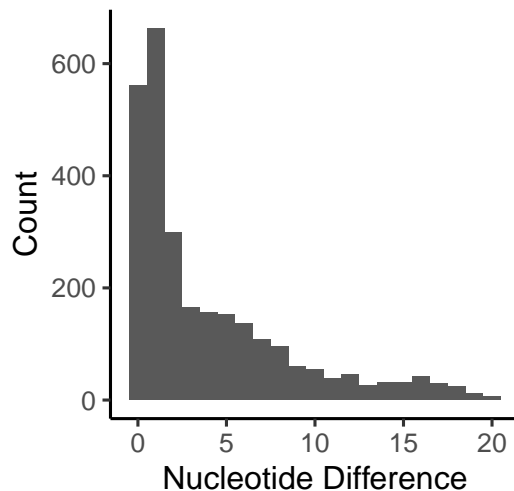
IGHV4-NL_38*01_S9225

12 sequences assigned
No exact matches.



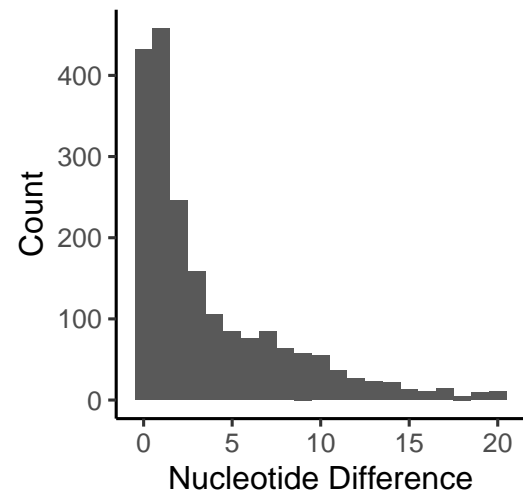
IGHV4-NL_41*01_S9253

2776 sequences assigned
561 (20.2%) exact matches, in which:
479 unique CDR3
8 unique J



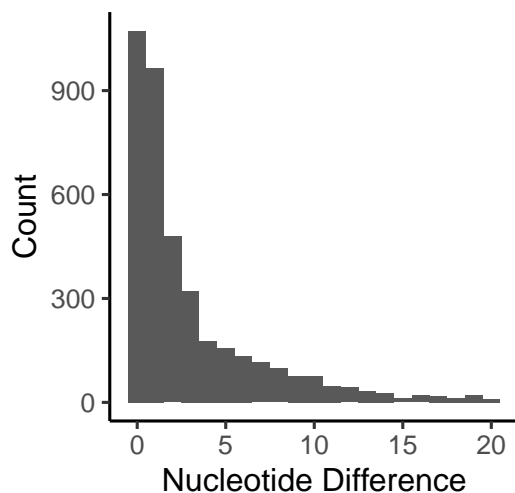
IGHV4-NL_5*01_S0908

2055 sequences assigned
432 (21%) exact matches, in which:
397 unique CDR3
8 unique J



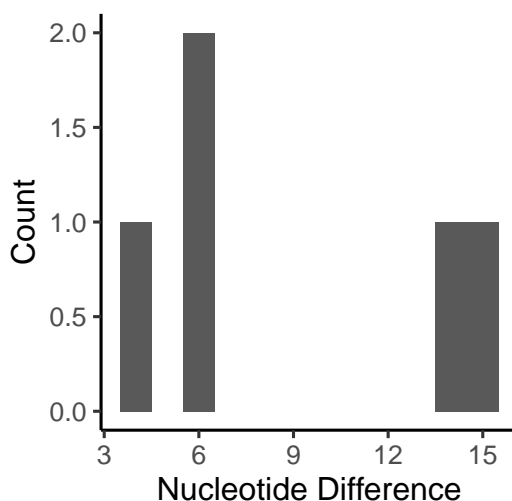
IGHV4–NL_5*01_S6960

3980 sequences assigned
1073 (27%) exact matches, in which:
956 unique CDR3
8 unique J



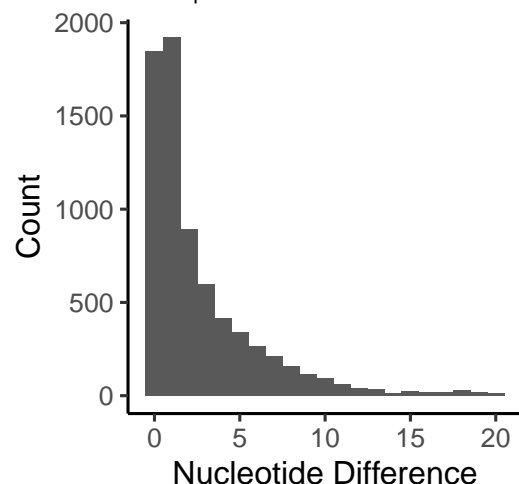
IGHV4–NL_9*02_S2874

5 sequences assigned
No exact matches.



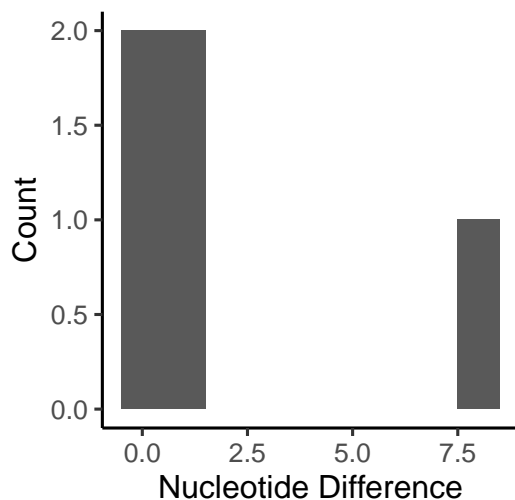
IGHV5–157*02_S3096

7180 sequences assigned
1848 (25.7%) exact matches, in which:
1079 unique CDR3
12 unique J



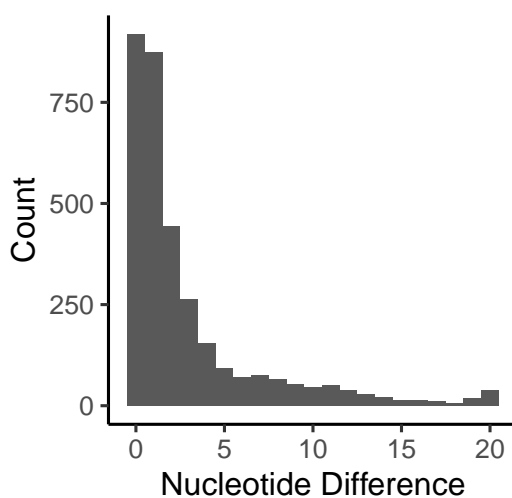
IGHV4–NL_7*02_S0143

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
0 unique J



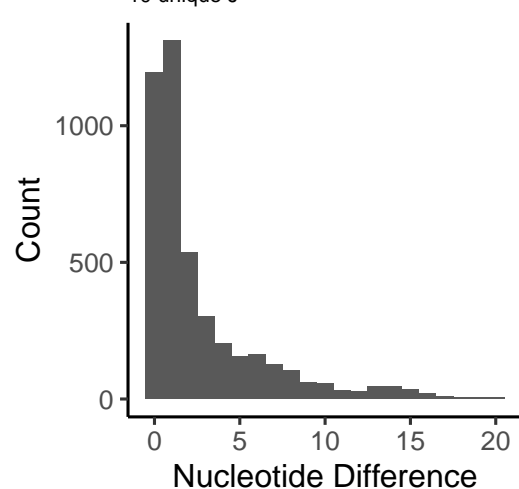
IGHV5–15*01_S8661

3362 sequences assigned
919 (27.3%) exact matches, in which:
563 unique CDR3
10 unique J



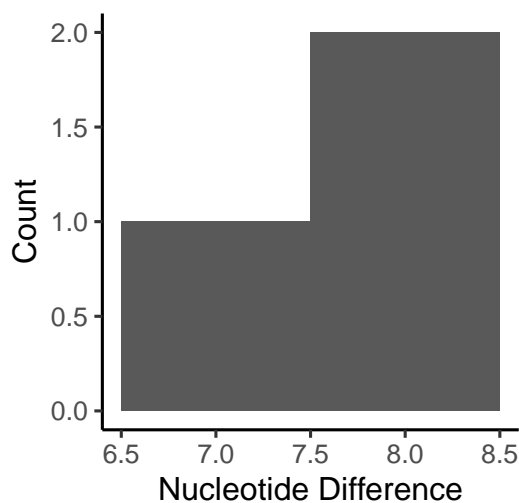
IGHV5–NL_1*02_S5699

4460 sequences assigned
1195 (26.8%) exact matches, in which:
770 unique CDR3
10 unique J



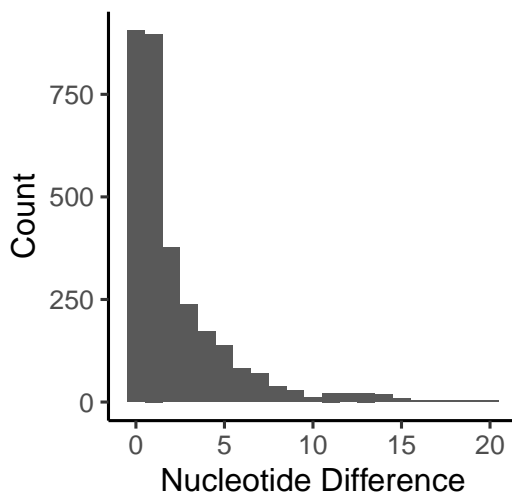
IGHV4–NL_9*01_S6608

5 sequences assigned
No exact matches.



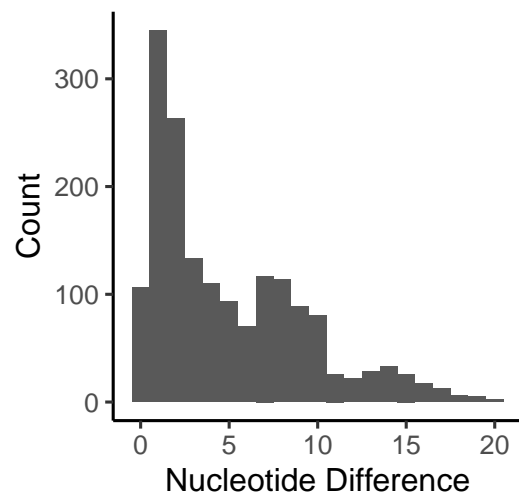
IGHV5–157*01_S8626

3073 sequences assigned
906 (29.5%) exact matches, in which:
477 unique CDR3
10 unique J



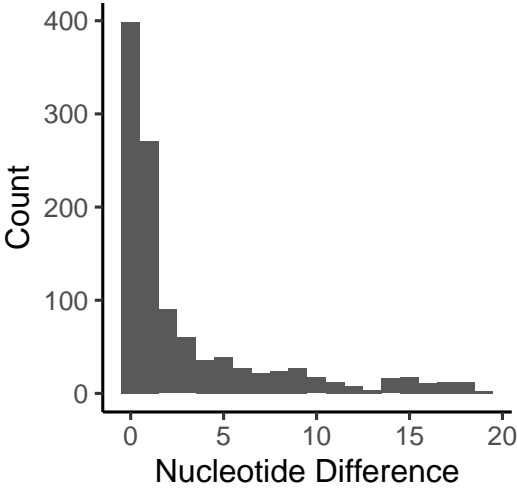
IGHV6–1*01_G283T

1718 sequences assigned
106 (6.2%) exact matches, in which:
87 unique CDR3
10 unique J



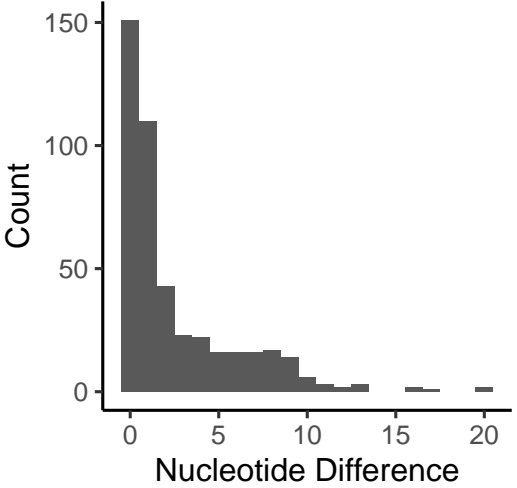
IGHV7-86*01_S8063

1150 sequences assigned
399 (34.7%) exact matches, in which:
262 unique CDR3
8 unique J

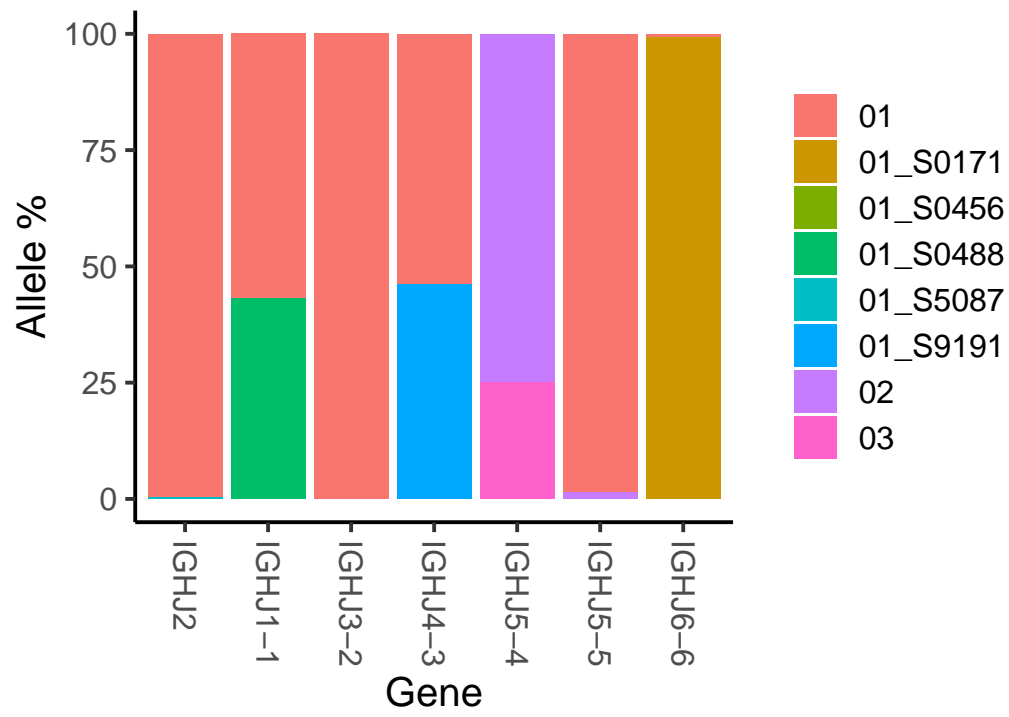


IGHV7-86*02_S1706

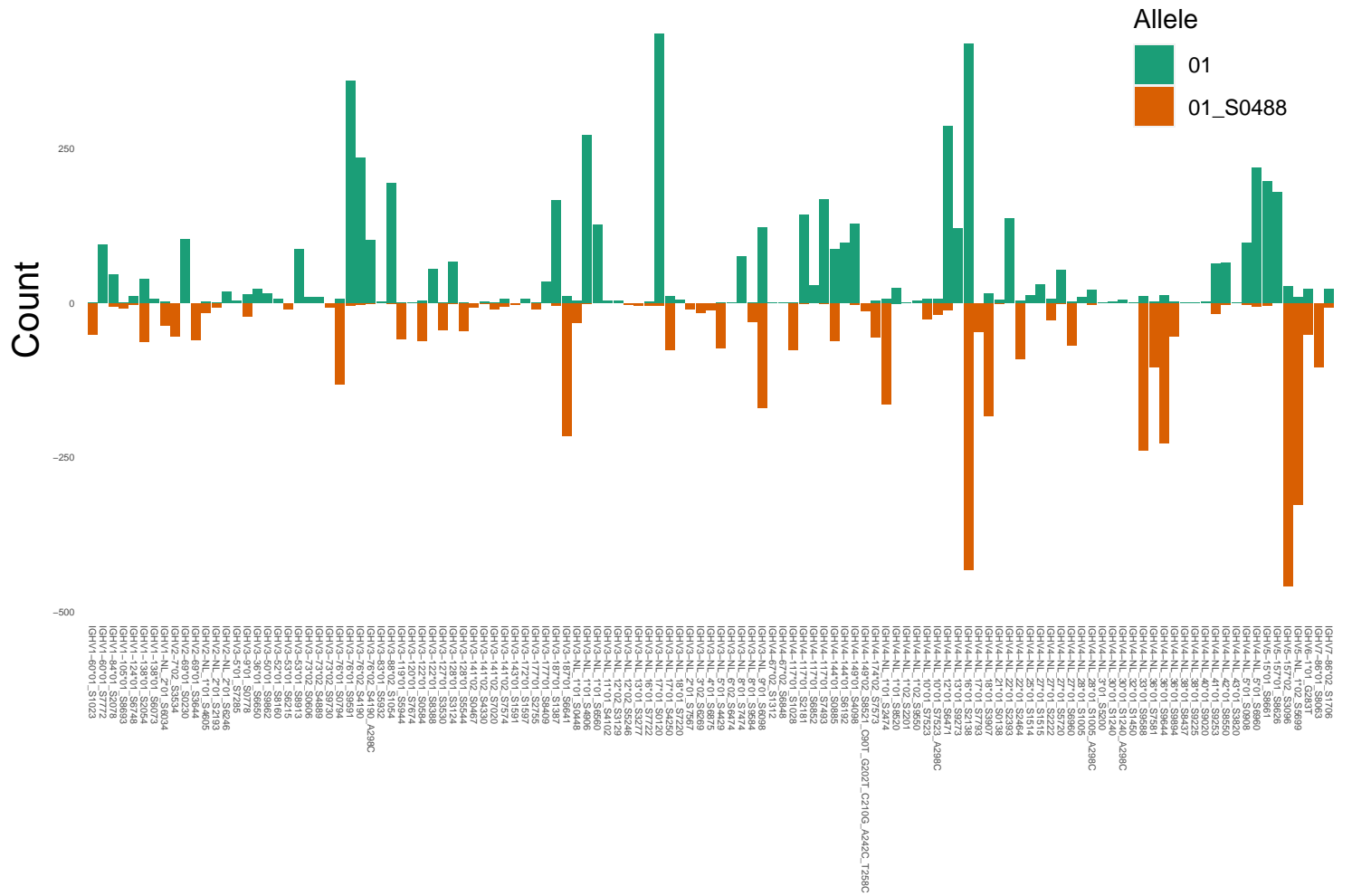
695 sequences assigned
151 (21.7%) exact matches, in which:
111 unique CDR3
8 unique J



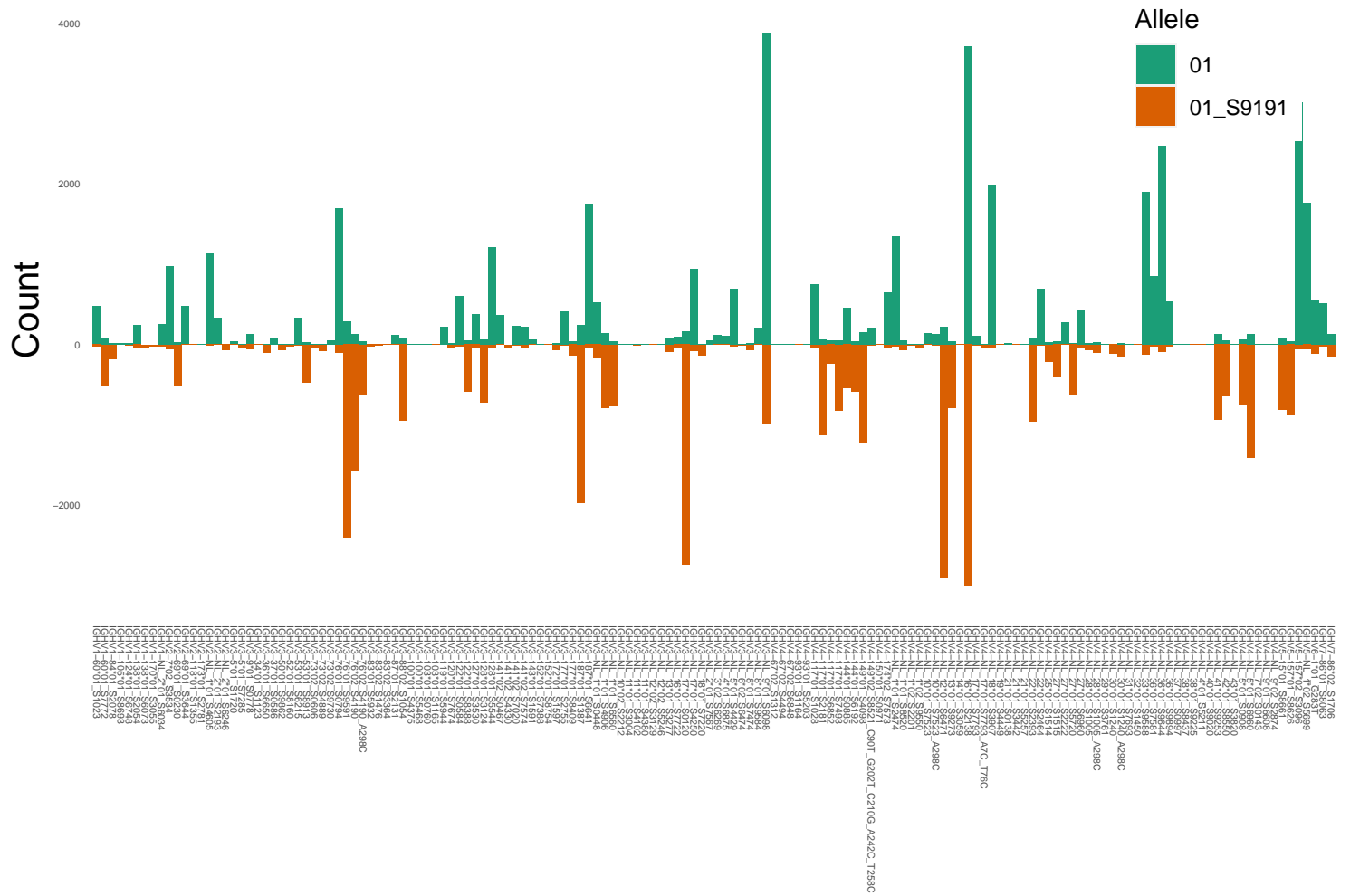
Allele Usage



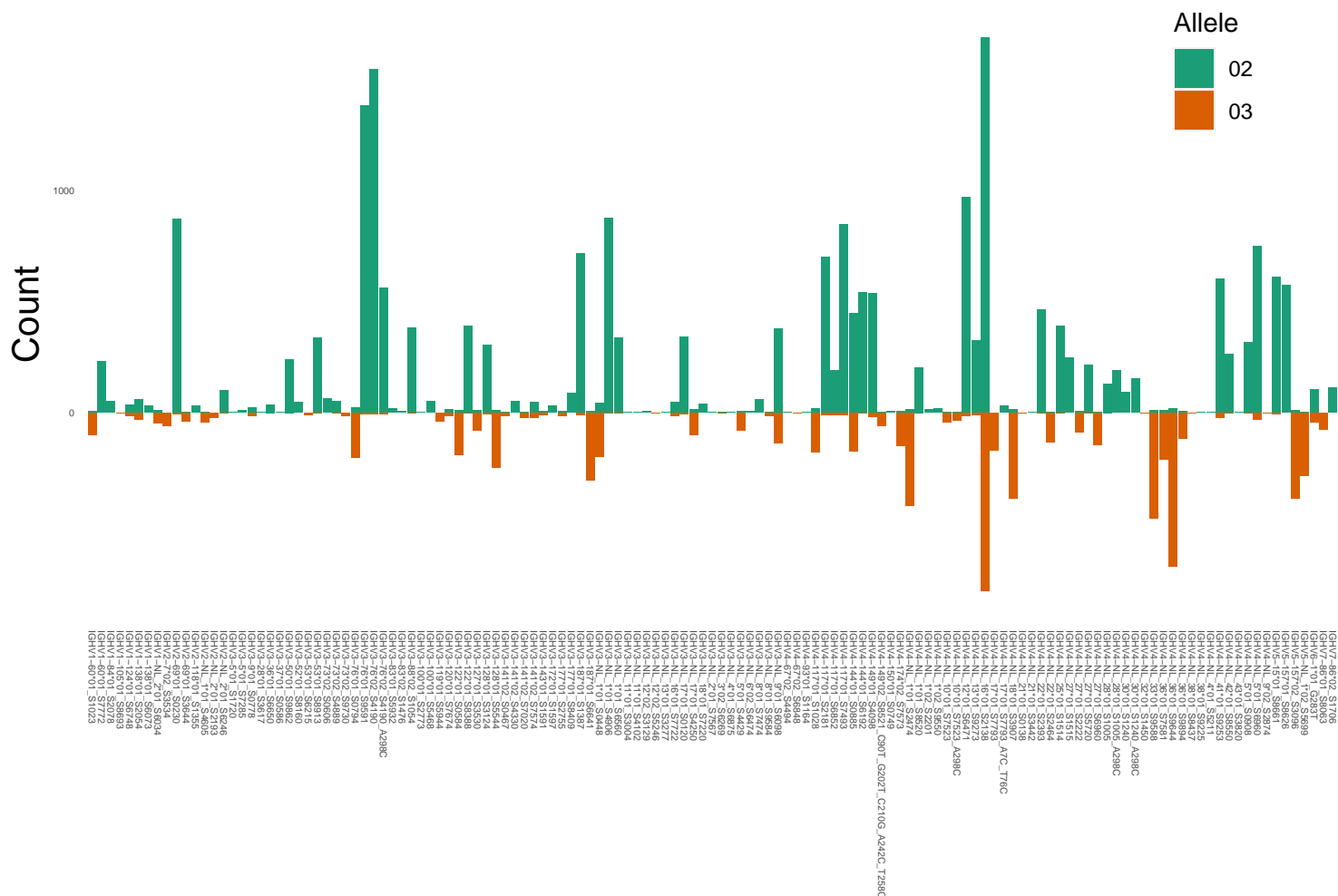
Sequence Count byIGHJ1-1 allele usage



Sequence Count by IGHJ4-3 allele usage



Sequence Count byIGHJ5-4 allele usage



Warning – no inferred sequences found.