

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
20 October 2011 (20.10.2011)

PCT

(10) International Publication Number
WO 2011/130289 A1

(51) International Patent Classification:
C07H 19/06 (2006.01) *C07H 19/00* (2006.01)

(21) International Application Number:
PCT/US2011/032143

(22) International Filing Date:
12 April 2011 (12.04.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/323,145 12 April 2010 (12.04.2010) US

(71) Applicant (for all designated States except US): **SOMALOGIC, INC.** [US/US]; 2945 Wilderness Place, Boulder, Colorado 80301 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ROHLOFF, John** [US/US]; 605 Meadowbrook Drive, Boulder, Colorado 80303 (US). **JANJIC, Nebojsa** [US/US]; 6973 Carter Trail, Boulder, Colorado 80301 (US). **CARTER, Jeffrey D.** [US/US]; 7318 Mt. Sherman Road, Longmont, Colorado 80503 (US). **FOWLER, Catherine** [US/US]; 3340 Dover Dr., Boulder, Colorado 80305 (US).

(74) Agents: **SWANSON & BRATSCHEUN, L.L.C.** et al.; 8210 SouthPark Terrace, Littleton, Colorado 80120 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- with amended claims (Art. 19(1))

(54) Title: 5-POSITION MODIFIED PYRIMIDINES AND THEIR USE

(57) Abstract: The present disclosure relates to the field of nucleic acid chemistry, specifically to 5-position modified uridines as well as phosphoramidite and triphosphate derivatives thereof. The present disclosure also relates to methods of making and using the same.



WO 2011/130289 A1