

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 January 2012 (12.01.2012)

PCT

(10) International Publication Number
WO 2012/005595 A3

(51) International Patent Classification:
C12Q 1/68 (2006.01)

(21) International Application Number:
PCT/NL2011/050504

(22) International Filing Date:
8 July 2011 (08.07.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/362,778 9 July 2010 (09.07.2010) US

(71) Applicants (for all designated States except US):
MSCLS B.V. [NL/NL]; 44, Böttgerwater, NL-2497 ZJ Den Haag (NL). KONINKLIJKE ACADEMIE VAN WETENSCHAPPEN [NL/NL]; 29, Kloveniersburgwal, NL-1011 JV Amsterdam (NL).

(72) Inventors; and

(71) Applicants : DE LAAT, Wouter, Leonard [NL/NL]; 8, Uppsalalaan, NL-3584 CT Utrecht (NL). VAN MIN, Max, Jan [NL/NL]; 44, Böttgerwater, NL-2497 ZJ Den Haag (NL).

(74) Agent: DE LANG, R.J.; Exter Polak & Charlouis B.V., P.O. Box 3241, NL-2280 GE Rijswijk (NL).

(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))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- with sequence listing part of description (Rule 5.2(a))

(88) Date of publication of the international search report:
8 March 2012

(54) Title: 3-D GENOMIC REGION OF INTEREST SEQUENCING STRATEGIES

(57) Abstract: The invention relates to methods for determining the sequence of a genomic region of interest comprising a target nucleotide sequence comprising, fragmenting a crosslinked DNA, ligating the fragmented cross linked DNA, reversing the crosslinking and determining at least part of the sequences of ligated DNA fragments which comprise a target nucleotide sequence.



WO 2012/005595 A3