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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
5 February 2015 (05.02.2015)

WIPO | PCT

(10) International Publication Number
WO 2015/015518 A2

(51) International Patent Classification:
C07K 14/435 (2006.01)

(21) International Application Number:
PCT/IN2014/000506

(22) International Filing Date:
31 July 2014 (31.07.2014)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2527/MUM/2013 31 July 2013 (31.07.2013) IN

(71) Applicant: **BIOGENOMICS LIMITED** [IN/IN]; First Floor, Kothari Compound, Opposite Tikuji-ni-wadi, Thane (West) 400610, Maharashtra (IN).

(72) Inventors: **KRISHNAN, Archana**; BioGenomics Limited, First Floor, Kothari Compound, Opposite Tikuji-ni-wadi, Thane (West) 400610, Maharashtra (IN). **SONAR, Sanjay**; BioGenomics Limited, First Floor, Kothari Compound, Opposite Tikuji-ni-wadi, Thane (West) 400610, Maharashtra (IN). **THAPPA, Damodar**; BioGenomics Limited, First Floor, Kothari Compound, Opposite Tikuji-ni-wadi, Thane (West) 400610, Maharashtra (IN).

(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, BN, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*

— *with sequence listing part of description (Rule 5.2(a))*

WO 2015/015518 A2

(54) **Title**: PROCESS FOR PRODUCTION OF INSULIN AND INSULIN ANALOGUES

(57) **Abstract**: A process for production of insulin or insulin analogues by expression of Insulin or Insulin analogues through an expression vector in a host cell is provided. The expression vector includes a leader peptide of SEQ ID NO 3; a nucleotide sequence encoding an affinity tag linked to C-terminal end or N terminal end of nucleotide sequence of the leader peptide; and a nucleotide sequence encoding for a cleavage site ligated to nucleotide sequence of the leader peptide through nucleotide sequence encoding the affinity tag.