

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 May 2008 (29.05.2008)

PCT

(10) International Publication Number
WO 2008/061804 A3

(51) International Patent Classification:
A61K 49/00 (2006.01)

(74) Agents: **BIRD, William, E.** et al.; Bird Goën & Co, Klein Dalenstraat 42A, B-3020 Winksele (BE).

(21) International Application Number:
PCT/EP2007/010285

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(22) International Filing Date:
23 November 2007 (23.11.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/867,152 24 November 2006 (24.11.2006) US

(71) Applicant (*for all designated States except US*):
TIGENIX N.V. [BE/BE]; Technologielaan 3, B-3001 Leuven (BE).

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

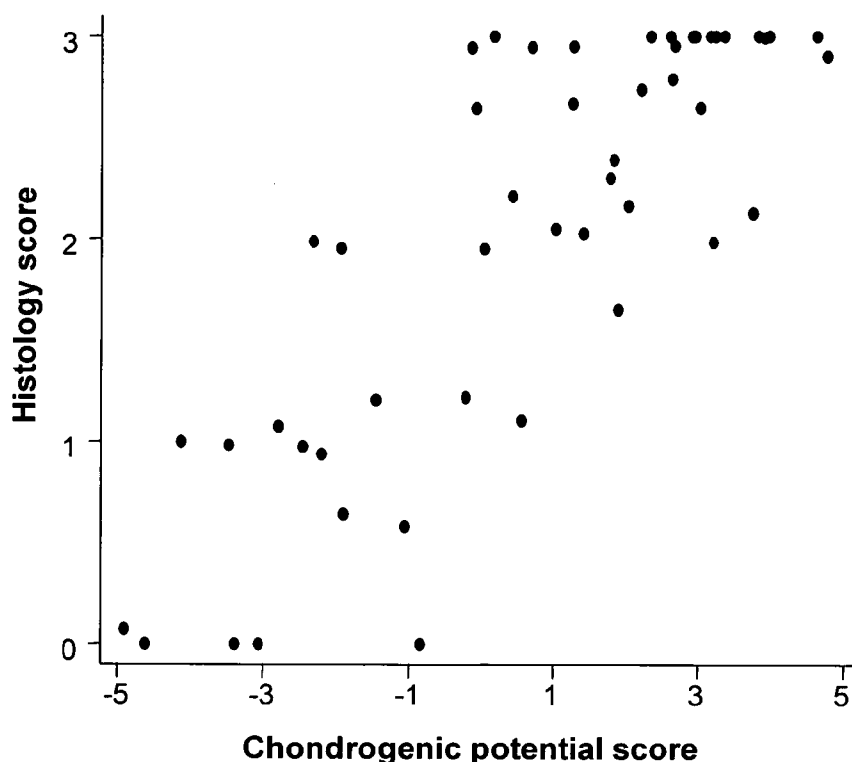
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **LUYTEN, Frank** [BE/BE]; Baron d'Huartlaan 193, B-1950 Kraainem (BE). **DE BARI, Cosimo** [IT/GB]; 18 Ethelbert Close, Bromley, Kent BR1 1JB (GB). **DELL'ACCIO, Francesco** [IT/GB]; 8 Ravensmead Road, Bromley, Kent BR2 0BT (GB).

Published:
— with international search report

[Continued on next page]

(54) Title: MARKER GENES FOR USE IN THE IDENTIFICATION OF CHONDROCYTE PHENOTYPIC STABILITY AND IN THE SCREENING OF FACTORS INFLUENCING CARTILAGE PRODUCTION



(57) Abstract: The present invention relates to a set of genes which can be used to predict the potential of a cell population to form cartilage when implanted *in vivo*. The set of markers is used *inter alia* as a quality control of cells and in screening assays to evaluate the impact of compounds and conditions on the cartilage forming ability of cells.

WO 2008/061804 A3



- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*
- *with sequence listing part of description published separately in electronic form and available upon request from the International Bureau*

(88) Date of publication of the international search report:
17 July 2008