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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
19 June 2003 (19.06.2003)

PCT

(10) International Publication Number
WO 03/050236 A2

(51) International Patent Classification[7]: C12N

(21) International Application Number: PCT/US02/28214

(22) International Filing Date:
4 September 2002 (04.09.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/012,697 7 December 2001 (07.12.2001) US

(71) Applicants *(for all designated States except US)*: **CHIRON CORPORATION** [US/US]; 4560 Horton Street - R440, Emeryville, CA 94608 (US). **HYSEQ, INC.** [US/US]; 675 Almanor Avenue, Sunnyvale, CA 94086 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **ESCOBEDO, Jaime** [CL/US]; 1470 Lavorna Road, Alamo, CA 94507 (US). **GARCIA, Pablo, Dominguez** [CL/US]; 882 Chenery Street, San Francisco, CA 94131 (US). **KASSAM, Altaf** [US/US]; 3810 Midvale Avenue, Oakland, CA 94602 (US). **LAMSON, George** [US/US]; 232 Sandringham Drive, Moraga, CA 94556 (US). **DRMANAC, Radoje** [US/US]; 850 East Greenwich Place, Palo Alto, CA 94303 (US). **CRKVENJAKOV, Radomir** [YU/US]; 762 Haverhill Drive, Sunnyvale, CA 94068 (US). **DICKSON, Mark** [US/US]; 1411 Gabilan Drive, #B, Hollister, CA 95025 (US). **DRMANAC, Snezana** [YU/US]; 850 East Greenwich Place, Palo Alto, CA 94303 (US). **LABAT, Ivan** [YU/US]; 1006 Asbury Way, Mountain View, CA 94043 (US). **LESHKOWITZ, Dena** [US/IL]; 1 Mevo Brosh, 56452 Yehud (IL). **KITA, David** [US/US]; 899 Bounty Drive, Foster City, CA 94404 (US). **GARCIA, Veronica** [ES/US]; 396 Ano Nuevo, Apt. 412, Sunnyvale, CA 94086 (US). **JONES, Lee, William** [US/US]; 396 Ano Nuevo #412, Sunnyvale, CA 94086 (US). **STACHE-CRAIN, Birgit** [DE/US]; 345 South Mary Avenue, Sunnyvale, CA 94086 (US). **SCOTT, Elizabeth, M.** [US/US]; 1267 Nash Street, Sonoma, CA 95476 (US).

(74) Agents: **BLACKBURN, Robert, P.**; Chiron Corporation, P.O. Box 8097, Emeryville, CA 94662-8097 et al. (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *without international search report and to be republished upon receipt of that report*

— *with sequence listing part of description published separately in electronic form and available upon request from the International Bureau*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 03/050236 A2

(54) Title: HUMAN GENES AND GENE EXPRESSION PRODUCTS ISOLATED FROM HUMAN PROSTATE

(57) Abstract: This invention relates to novel human polynucleotides and variants thereof, their encoded polypeptides and variants thereof, to genes corresponding to these polynucleotides and to proteins expressed by the genes. The invention also relates to diagnostics and therapeutics comprising such novel human polynucleotides, their corresponding genes or gene products, including probes, antisense nucleotides, and antibodies. The polynucleotides of the invention correspond to a polynucleotide comprising the sequence information of at least one of SEQ ID NOS:1-1477. The polypeptides of the invention correspond to a polypeptide comprising the amino acid sequence information of at least one of SEQ ID NOS:1478-1568.