26/06/02
WO 0040210

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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
1 February 2001 (01.02.2001)

PCT

(10) International Publication Number
WO 01/07652 A3

(51) International Patent Classification[7]: C12Q 1/70, 1/68

(21) International Application Number: PCT/IB00/01079

(22) International Filing Date: 28 July 2000 (28.07.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/362,394 28 July 1999 (28.07.1999) US

(71) Applicant: THE GOVERNMENT OF THE REPUBLIC OF SINGAPORE [SG/SG]; Attorney General's Chambers, 1 Coleman Street #10-00, Singapore 179803 (SG).

(72) Inventors: OON, Chong-Jin; 14A Princess of Wales Road, Singapore 266914 (SG). CHEN, Wei-Ning; Blk 104, Spottiswoode Park Road, #22-114, Singapore 080104 (SG). LEONG, Ai-Lin; Blk. 263, Yishun Street 22, #12-161, Singapore 760263 (SG). KOH, Shiuan; Blk. 206, Toa Payoh North, #02-1199, Singapore 310206 (SG).

(74) Agent: WHITE, John, P.; Cooper & Dunham LLP, 1185 Avenue of the Americas, New York, NY 10036 (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, 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, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

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

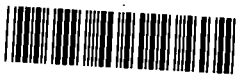
Published:
— *with international search report*

(88) Date of publication of the international search report:
20 December 2001

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.



162162



ACTION

WO 01/07652 A3

(54) Title: DETECTION OF HUMAN HEPATITIS B VIRUS SURFACE ANTIGEN MUTANTS BY SPECIFIC AMPLIFICATION AND ITS APPLICATION ON GENE CHIP

(57) Abstract: Novel DNA probe sequences for detection, by polymerase chain reaction, of human hepatitis B virus surface antigen mutant 145 (Glycine to Arginine) from serum samples. As a direct application, these specific DNA probes are immobilized on solid glass supports (gene chip) for detection of human hepatitis B virus surface antigen mutant 145 (Glycine to Arginine) by fluorescence.