

AM

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

(19) World Intellectual Property Organization
International Bureau



162162

(43) International Publication Date
20 June 2002 (20.06.2002)

PCT

(10) International Publication Number
WO 02/048391 A3

(51) International Patent Classification⁷: **C12Q 1/18**,
G01N 33/569

(21) International Application Number: PCT/EP01/14551

(22) International Filing Date:
11 December 2001 (11.12.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0030368.5 13 December 2000 (13.12.2000) GB

(71) Applicant (for all designated States except US): **INSTITUTE OF MOLECULAR AND CELL BIOLOGY**
[SG/SG]; 30 Medical Drive, Singapore 117609 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DICK, Thomas**
[DE/SG]; 1 Springwood Walk, Singapore 610151 (SG).
CALVIN, Boon, Ka, Khiu [SG/SG]; Blk 151, Yung Ho
Road, #10-85, Singapore 610151 (SG).

(74) Agents: **WOODS, Geoffrey, Corlett** et al.; J.A. Kemp &
Co., 14 South Square, Gray's Inn, London WC1R 5JJ (GB).

(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, 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, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
19 September 2002

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.



G00002

WO 02/048391 A3

(54) Title: DORMANCY - INDUCED MYCOBACTERIUM PROTEINS

(57) Abstract: A method for the identification of an anti-mycobacterial agent that modulates the activity and/or expression of a protein expressed by a *Mycobacterium* in non-oxygen limiting stationary phase, hypoxic stationary phase or hypoxic growth phase, which method comprises: (i) contacting a test agent and a protein selected from RV3133c, Rv2623, Rv2626c, a variant of Rv3133c, Rv2623 or Rv2626 and a fragment of Rv3133c, RV2623, Rv2626c or said variant, or a polynucleotide or expression vector encoding said protein; (ii) monitoring the effect of the test agent on the activity and/or expression of said protein, thereby determining whether the test agent modulates the activity and/or expression of a protein expressed by a *Mycobacterium* in non-oxygen limiting stationary phase, hypoxic stationary phase or hypoxic growth phase.