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(21) International Application Number: PCT/SG99/00011 (22) International Filing Date: 11 February 1999 (11.02.99) (71) Applicant (for all designated States except US): INSTITUTE OF MOLECULAR AGROBIOLOGY [SG/SG]; 1 Research Link, Singapore 117604 (SG). (72) Inventors; and (75) Inventors/Applicants (for US only): XIE, Qi [CN/SG]; 348K Pasir Panjang Road, Singapore 118824 (SG). CHUA, Nam-Hai [SG/US]; 32 Walworth Avenue, Scarsdale, NY 10583 (US). (74) Agent: ELLA CHEONG & G. MIRANDAH; P.O. Box 0931, Raffles City, Singapore 911732 (SG).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, 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, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, 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 <i>With international search report.</i>  *G00001*
(54) Title: <i>NAC1</i> – A PLANT GENE ENCODING A TRANSCRIPTION FACTOR INVOLVED IN COTYLEDON AND LATERAL ROOT DEVELOPMENT (57) Abstract A novel gene, <i>nac1</i> , has been isolated from Arabidopsis. This gene encodes a protein (NAC1) which has been identified as a member of the NAC family. NAC1 shares a high amino acid sequence homology with other members of the NAC gene products in the N-terminus. Data show that NAC1 belongs to a newly identified family of transcription factors. NAC1 is involved in the regulation of cotyledon and lateral root development. Overexpression of the gene can lead to larger plants with larger roots and more lateral roots than in wild-type plants.  *162162*		