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(21) International Application Number: PCT/US95/05520 ✓ (22) International Filing Date: 28 April 1995 (28.04.95) ✓ (30) Priority Data: 08/309,069 20 September 1994 (20.09.94) ✓ US (71) Applicant: UNIVERSITY OF MARYLAND [US/US]; 4321 Hartwick Road, College Park, MD 20740 (US) ✓ (72) Inventors: BRYAN, Philip, N.; 1720 Dublin Drive, Silver Spring, MD 20902 (US). ALEXANDER, Patrick, A.; 10402 Amherst Avenue, Silver Spring, MD 20902 (US). STRAUSBERG, Susan, L.; 403 Feather Rock Drive, Rockville, MD 20850 (US). (74) Agents: REA, Teresa, Stanek et al.; Burns, Doane, Swecker & Mathis, Washington and Prince Streets, P.O. Box 1404, Alexandria, VA 22313-1404 (US).		(81) Designated States: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, <u>SG</u> , SI, SK, TJ, TM, TT, UA, UG, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG). Published <i>With international search report.</i> SG 9701143-1
(54) Title: CALCIUM FREE SUBTILISIN MUTANTS (57) Abstract Novel calcium free subtilisin mutants are taught, in particular subtilisins which have been mutated to eliminate amino acids 75-83 and which retain enzymatic activity and stability. Recombinant methods for producing same and recombinant DNA encoding for such subtilisin mutants are also provided.		