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(21) International Application Number: PCT/US99/27076 (22) International Filing Date: 15 November 1999 (15.11.99) (30) Priority Data: 09/199,897 25 November 1998 (25.11.98) US (71) Applicant: ZYMOGENETICS, INC. [US/US]; 1201 Eastlake Avenue E, Seattle, WA 98102 (US). (72) Inventor: SHEPPARD, Paul, O.; 20717 N.E. 2nd Street, Redmond, WA 98053 (US). (74) Agent: JONES, Phillip, B., C.; ZymoGenetics, Inc., 1201 Eastlake Avenue East, Seattle, WA 98102 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, 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, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, 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 <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>
(54) Title: ZACE1: A HUMAN METALLOENZYME (57) Abstract Angiotensin-converting enzyme is a zinc metallopeptidase that plays roles in blood pressure regulation and fertility. The catalytic activities of angiotensin converting enzymes include the production of the potent vasopressor angiotensin II from angiotensin I, and the inactivation of the vasodilatory peptide bradykinin. Zace1 is a form of human zinc metallopeptidase, which includes one zinc-dependent catalytic domain containing the motif "HEXXH" and one downstream "EX(I/V)X(D/S)" motif.		