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(71) Applicant *(for all designated States except US)*: **BRISTOL-MYERS SQUIBB COMPANY** [US/US]; P.O. Box 4000, Route 206 and ProvinceLine Road, Princeton, NJ 08543-4000 (US).

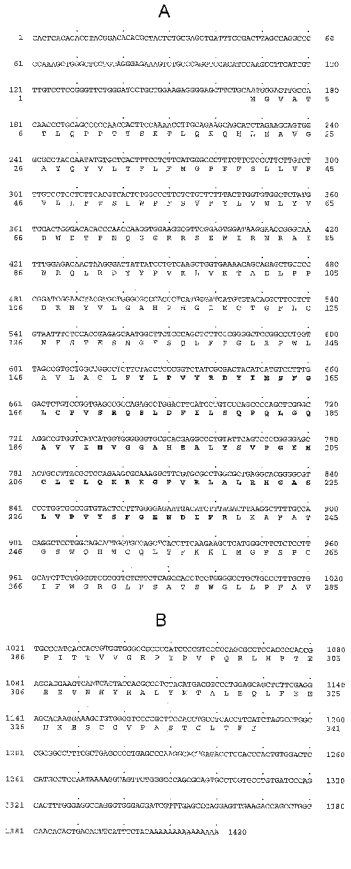
(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **FEDER, John, N.** [US/US]; 277 Dutchtown Zion Road, Belle Mead, NJ 08502 (US). **NELSON, Thomas, C.** [US/US]; 180 Franklin Corner Road, Lawrenceville, NJ 08648 (US). **CHEN, Jian** [US/US]; 121 York Drive, Princeton, NJ 08540 (US). **MEEGALLA, Rupalie** [LK/US]; 3822 Highland Drive, Boothwyn, PA 19061 (US). **RAMAKER, Michael** [US/US]; 250A Presidential Drive, Greenville, DE 19807 (US). **CHENG, Dong** [US/US]; 2157 Lincolnshire Road, Furlong, PA 18925 (US).

(74) Agents: **LANGE, Keith, R.** et al.; Bristol-Myers Squibb Company, P.O. Box 4000, Princeton, NJ 08543-4000 (US).

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(54) Title: POLYNUCLEOTIDE ENCODING A NOVEL ACYL COENZYME A, MONOACYLGLYCEROL ACYLTRANSFERASE-3 (MGAT3), AND USES THEREOF



(57) Abstract: The present invention provides novel polynucleotides encoding MGAT3 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel MGAT3 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, such as obesity. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

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