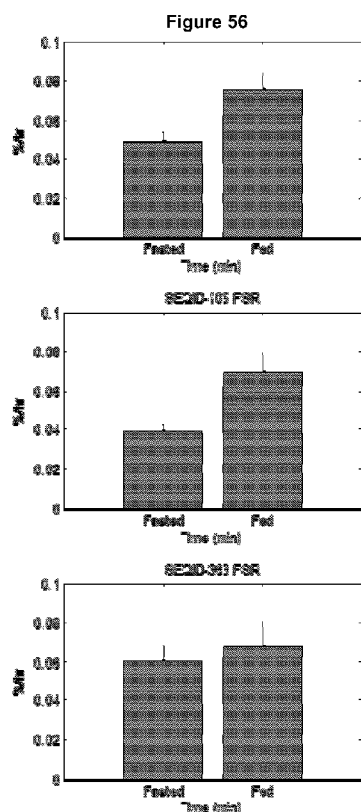




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		(71) Applicant: PRONUTRIA, INC. [US/US]; 840 Memorial Drive, Third Floor, Cambridge, MA 02139 (US).		

[Continued on next page]

(54) Title: COMPOSITIONS AND FORMULATIONS FOR MAINTAINING AND INCREASING MUSCLE MASS, STRENGTH, AND PERFORMANCE AND METHODS OF PRODUCTION AND USE THEREOF



(57) Abstract: Nutritive polypeptides are provided herein. Also provided are various other embodiments including nucleic acids encoding the polypeptides, recombinant microorganisms that make the polypeptides, vectors for expressing the polypeptides, methods of making the polypeptides using recombinant microorganisms, compositions and formulations that comprise the polypeptides, and methods of using the polypeptides, compositions and formulations.

**(72) Inventors; and**

(71) Applicants : **SILVER, Nathaniel, W.**; Pronutria, Inc., 840 Memorial Drive, Third Floor, Cambridge, MA 02139 (US). **CHEN, Ying-ja**; Pronutria, Inc., 840 Memorial Drive, Third Floor, Cambridge, MA 02139 (US). **BERRY, David, A.**; Pronutria, Inc., 840 Memorial Drive, Third Floor, Cambridge, MA 02139 (US). **HAMILL, Michael, J.**; Pronutria, Inc., 840 Memorial Drive, Third Floor, Cambridge, MA 02139 (US). **BASU, Subhayu**; Pronutria, Inc., 840 Memorial Drive, Third Floor, Cambridge, MA 02139 (US). **HAMM, Luke**; Pronutria, Inc., 840 Memorial Drive, Third Floor, Cambridge, MA 02139 (US). **WILLIAMS, Alison**; Pronutria, Inc., 840 Memorial Drive, Third Floor, Cambridge, MA 02139 (US). **ERBE, David**; Pronutria, Inc., 840 Memorial Drive, Third Floor, Cambridge, MA 02139 (US). **VON MALTZAHN, Geoffrey**; Pronutria, Inc., 840 Memorial Drive, Third Floor, Cambridge, MA 02139 (US).

(74) Agents: **KABLER, Kevin** et al.; Fenwick & West LLP, Silicon Valley Center, 801 California Street, Mountain View, CA 94041 (US).

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