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- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(H))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(Hi))

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(54) Title: INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF GLYCYL-TRNA SYNTHETASES

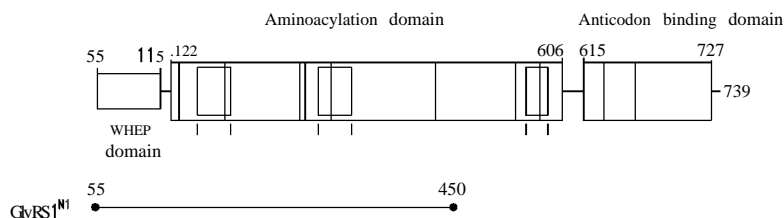


FIG. 1A

(57) Abstract: Provided are compositions comprising newly identified protein fragments of aminoacyl-tRNA synthetases, polynucleotides that encode them and complements thereof, related agents, and methods of use thereof in diagnostic, drug discovery, research, and therapeutic applications.

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- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
- *with sequence listing part of description (Rule 5.2(a))*

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/043756**A. CLASSIFICATION OF SUBJECT MATTER***A61K 38/16(2006.01)i, A61K 38/10(2006.01)1, A61K 38/08(2006.01)1, A61K 39/395(2006.01)1, A61P 35/00(2006.01)1, A61P 3/10(2006.01)i, A61P 3/00(2006.01)1*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61K 38/16; A61K 39/395; C12N 5/10; C12N 1/21; C12N 15/52; C12N 9/00; C07K 16/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal), PubMed, Google

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2009-0227002 A1 (PETER G.SCHULTZ et al.) 10 September 2009 See abstract; claims.	116-118,122,123 2,20,24,31,45,54 ,57,59,61-70,77,79 ,80,84,86
A	US 2010-0028352 A1 (LESLIE ANN GREENE et al.) 04 February 2010 See entire document.	2,20,24,31,45,54 ,57,59,61-70,77,79 ,80,84,86,116-118 ,122,123
A	WO 02-059323 A2 (INCYTE GENOMICS, INC.) 01 August 2002 See abstract; claims.	2,20,24,31,45,54 ,57,59,61-70,77,79 ,80,84,86,116-118 ,122,123
A	US 2010-0093082 A1 (FENG TIAN et al.) 15 April 2010 See abstract; claims.	2,20,24,31,45,54 ,57,59,61-70,77,79 ,80,84,86,116-118 ,122,123

 Further documents are listed in the continuation of Box C. See patent family annex.

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"&" document member of the same patent family

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* The scope of claims 1,3-19,21-23,25-30,32-44,46-53,55,56,58,60,75,76,78,81-83,85,87-115,119-121,124-132 is considered to be too broad and unclear contrary to the requirements of PCT Art 6, since the proteins according to said claims are only described as having specific length without giving a true technical characterization, e.g. amino acid sequence.

* The scope of claims 7-11,13,99,100,107,108,110-113 are unclear, since they refer to claims which are not searchable due to not being drafted in accordance with the third sentences of PCT Rule 6.4(a).

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