

Accepted Manuscript

Gene- and Genome-Based Analysis of Significant Codon Patterns in Yeast, Rat and Mice Genomes with the CUT Codon Utilization Tool

Frank Doyle, Andrea Leonardi, Lauren Endres, Scott A. Tenenbaum, Peter C. Dedon, Thomas J. Begley

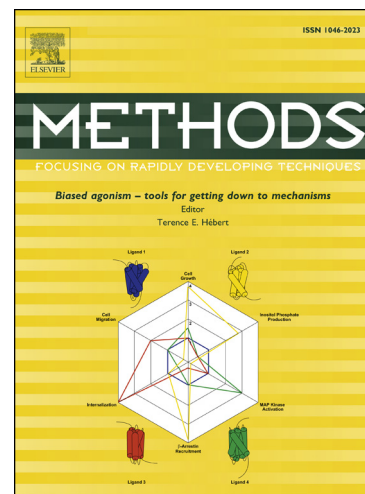
PII: S1046-2023(16)30133-5
DOI: <http://dx.doi.org/10.1016/j.ymeth.2016.05.010>
Reference: YMETHOD 3988

To appear in: *Methods*

Received Date: 2 March 2016
Revised Date: 16 May 2016
Accepted Date: 17 May 2016

Please cite this article as: F. Doyle, A. Leonardi, L. Endres, S.A. Tenenbaum, P.C. Dedon, T.J. Begley, Gene- and Genome-Based Analysis of Significant Codon Patterns in Yeast, Rat and Mice Genomes with the CUT Codon Utilization Tool, *Methods* (2016), doi: <http://dx.doi.org/10.1016/j.ymeth.2016.05.010>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Gene- and Genome-Based Analysis of Significant Codon Patterns in Yeast, Rat and Mice Genomes with the CUT Codon Utilization Tool

Frank Doyle^{1}, Andrea Leonardi^{1*}, Lauren Endres^{2*}, Scott A. Tenenbaum¹, Peter C. Dedon^{3,4} and Thomas J. Begley^{1,5#}*

¹State University of New York – SUNY Polytechnic Institute, College of Nanoscale Science and Engineering, Albany, NY; ²State University of New York – SUNY Polytechnic Institute, College of Arts and Sciences, Utica, NY; ³Department of Biological Engineering and Center for Environmental Health Science, Massachusetts Institute of Technology, Cambridge, MA; ⁴Singapore-MIT Alliance for Research and Technology, Singapore; ⁵RNA Institute, University at Albany, State University of New York.

*Authors contributed equally

Keywords: anticodon, codon bias, gene expression, modification tunable transcripts, stress response, translation, RNA modification.

Download English Version:

<https://daneshyari.com/en/article/8340205>

Download Persian Version:

<https://daneshyari.com/article/8340205>

[Daneshyari.com](https://daneshyari.com)