Accepted Manuscript

The Polycomb group protein CLF emerges as a specific tri-methylase of H3K27 regulating gene expression and development in *Physcomitrella patens*

Idan Pereman, Assaf Mosquna, Aviva Katz, Gertrud Wiedemann, Daniel Lang, Eva L. Decker, Yosuke Tamada, Takaaki Ishikawa, Tomoaki Nishiyama, Mitsuyasu Hasebe, Ralf Reski, Nir Ohad

PII: S1874-9399(16)30094-3

DOI: doi: 10.1016/j.bbagrm.2016.05.004

Reference: BBAGRM 1033

To appear in: BBA - Gene Regulatory Mechanisms

Received date: 18 January 2016 Revised date: 14 April 2016 Accepted date: 5 May 2016



Please cite this article as: Idan Pereman, Assaf Mosquna, Aviva Katz, Gertrud Wiedemann, Daniel Lang, Eva L. Decker, Yosuke Tamada, Takaaki Ishikawa, Tomoaki Nishiyama, Mitsuyasu Hasebe, Ralf Reski, Nir Ohad, The Polycomb group protein CLF emerges as a specific tri-methylase of H3K27 regulating gene expression and development in *Physcomitrella patens*, *BBA - Gene Regulatory Mechanisms* (2016), doi: 10.1016/j.bbagrm.2016.05.004

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.

ACCEPTED MANUSCRIPT

The Polycomb group protein CLF emerges as a specific trimethylase of H3K27 regulating gene expression and development in *Physcomitrella patens*

Idan Pereman^{1*}, Assaf Mosquna^{1,9*}, Aviva Katz^{1*}, Gertrud Wiedemann², Daniel Lang², Eva L. Decker², Yosuke Tamada^{3,4}, Takaaki Ishikawa³, Tomoaki Nishiyama^{5,6}, Mitsuyasu Hasebe^{3,4,6}, Ralf Reski^{2,7,8} and Nir Ohad^{1,7,10}.

³ National Institute for Basic Biology, Okazaki 444-8585, Japan

⁶ ERATO, Okazaki 444-8585, Japan

Corresponding Authors Nir Ohad (N.O.) niro@tauex.tau.ac.il. and Ralf Reski (R.R.) ralf.reski@biologie.uni-freiburg.de

Key words:

Curly leaf, histone code, *Physcomitrella patens*, SET domain, H3K27 methylation, epigenetic regulation.

¹ Department of Molecular Biology and Ecology of Plants, Tel-Aviv University, Tel-Aviv 69978, Israel.

² Plant Biotechnology, Faculty of Biology, University of Freiburg, 79104 Freiburg, Germany.

⁴ Department of Basic Biology, The Graduate University for Advanced Studies, Okazaki 444-8585, Japan

⁵Advanced Science Research Center, Kanazawa University, Kanazawa 920-0934, Japan

⁷ FRIAS – Freiburg Institute for Advanced Studies, 79104 Freiburg, Germany.

⁸ BIOSS – Centre for Biological Signaling Studies, 79104 Freiburg, Germany.

⁹ Robert H. Smith Institute of Plant Sciences and Genetics in Agriculture, Faculty of Agriculture, Hebrew University of Jerusalem, Rehovot 7610001, Israel.

¹⁰ The Manna Center Program for Food Safety & Security, Tel Aviv University, 69978 Israel.

^{*} These authors have contributed equally to the work.

Download English Version:

https://daneshyari.com/en/article/10798962

Download Persian Version:

https://daneshyari.com/article/10798962

<u>Daneshyari.com</u>