Accepted Manuscript

Population-associated heterogeneity of the digestive Cys protease complement in Colorado potato beetle, *Leptinotarsa decemlineata*

Asieh Rasoolizadeh, Marie-Claire Goulet, Jean-Frédéric Guay, Conrad Cloutier, Dominique Michaud

PII:	S0022-1910(16)30449-8
DOI:	http://dx.doi.org/10.1016/j.jinsphys.2017.03.001
Reference:	IP 3620
To appear in:	Journal of Insect Physiology
Received Date:	21 December 2016
Revised Date:	19 February 2017
Accepted Date:	2 March 2017



Please cite this article as: Rasoolizadeh, A., Goulet, M-C., Guay, J-F., Cloutier, C., Michaud, D., Populationassociated heterogeneity of the digestive Cys protease complement in Colorado potato beetle, *Leptinotarsa decemlineata*, *Journal of Insect Physiology* (2017), doi: http://dx.doi.org/10.1016/j.jinsphys.2017.03.001

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

Population-associated heterogeneity of the digestive Cys protease complement in Colorado potato beetle, *Leptinotarsa decemlineata*

Asieh Rasoolizadeh^a, Marie-Claire Goulet^a, Jean-Frédéric Guay^b, Conrad Cloutier^b, Dominique Michaud^{a,*}

^a Département de phytologie, CRIV-Biotechnologie, Université Laval, Québec QC, Canada G1V 0A6

^b Département de biologie, Université Laval, Québec QC, Canada G1V 0A6

Corresponding author at: Département de phytologie, Université Laval, Pavillon Envirotron, 2480 boul.
Hochelaga, Québec QC, Canada G1V 0A6.

E-mail address: dominique.michaud@fsaa.ulaval.ca (D. Michaud).

Abbreviations: Int, intestain; Ldp30, *Leptinotarsa decemlineata* 30-kDa cystatin-sensitive midgut Cys protease; P2I, P2L, P2V and P2Y, single functional variants of tomato cystatin SICYS8 with an isoleucine (I), a leucine (L), a valine (V) or a tyrosine (Y) in place of the original proline (P) at position 2 in the N-terminal region; RCR, relative consumption rate; RGR, relative growth rate; SICYS8, eighth cystatin domain of tomato (*Solanum lycopersicum*) multicystatin; T6R, single functional variant of tomato cystatin SICYS8 with an arginine (R) in place of the original threonine (T) at position 6 in the N-terminal region.

Download English Version:

https://daneshyari.com/en/article/8649809

Download Persian Version:

https://daneshyari.com/article/8649809

Daneshyari.com