

Accepted Manuscript

Do differences in the activities of carbohydrate metabolism enzymes between Lake Whitefish ecotypes match predictions from transcriptomic studies?

Anne C. Dalziel, Martin Laporte, Helga Guderley, Louis Bernatchez

PII: S1096-4959(17)30112-4
DOI: doi:[10.1016/j.cbpb.2017.08.001](https://doi.org/10.1016/j.cbpb.2017.08.001)
Reference: CBB 10120

To appear in: *Comparative Biochemistry and Physiology, Part B*

Received date: 21 March 2017
Revised date: 2 August 2017
Accepted date: 3 August 2017

Please cite this article as: Dalziel, Anne C., Laporte, Martin, Guderley, Helga, Bernatchez, Louis, Do differences in the activities of carbohydrate metabolism enzymes between Lake Whitefish ecotypes match predictions from transcriptomic studies?, *Comparative Biochemistry and Physiology, Part B* (2017), doi:[10.1016/j.cbpb.2017.08.001](https://doi.org/10.1016/j.cbpb.2017.08.001)

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.



Do differences in the activities of carbohydrate metabolism enzymes between Lake Whitefish ecotypes match predictions from transcriptomic studies?

Anne C. Dalziel^{1,2,3}, Martin Laporte¹, Helga Guderley¹, Louis Bernatchez¹

¹ Department of Biology, Institut de Biologie Intégrative et des Systèmes, 1030 Avenue de la Médecine Université Laval, Québec City, Québec, Canada, G1V 0A6

² Permanent Address: Department of Biology, 923 Robie Street, Saint Mary's University, Halifax, Nova Scotia, Canada, B3H 3C3

³ Correspondence: Anne C. Dalziel, E-mail: anne.dalziel@smu.ca

Key words: glycolysis, glycogenolysis, glycogenesis, liver, white muscle, local adaptation, *Coregonus clupeaformis*

Abbreviations:

ALDO - aldolase

GPI - phosphoglucose isomerase

PFK - phosphofructokinase

TPI - triosephosphate isomerase

GAPDH - glyceraldehyde 3-phosphate dehydrogenase

PK - pyruvate kinase

LDH - lactate dehydrogenase

CK - creatine phosphokinase

PYG - glycogen Phosphorylase

GYS - glycogen Synthase

GPD - glycerol 3 phosphate dehydrogenase

Download English Version:

<https://daneshyari.com/en/article/8318786>

Download Persian Version:

<https://daneshyari.com/article/8318786>

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