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
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

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 Laporte[1], Helga Guderley[1], Louis Bernatchez[1]

[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