### Supplementary Material

1. List of central carbon metabolic genes

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2. Z-test of eight genes in the central carbon metabolism

1. Sophophora set

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mean of the random set = 2.56
Std. of the random set = 1.7771

2. Drosophila set

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mean of the random set = 5.2525
Std. of the random set = 2.6967

The patterns discussed in the paper:
(1) p-values are significant in both sets: *Pdk*
(2) p-values are among the top: CG2964, CG13369
(3) p-value is significant in one set, but not the other: CG5362, *Mdh*