
Supplementary information

**Sensing of the non-essential amino acid
tyrosine governs the response to protein
restriction in *Drosophila***

In the format provided by the
authors and unedited

Supplementary Table 5, Primer list for quantitative PCR used in this study.

Gene name	Forward	Reverse
<i>Rpl32</i>	CGGATCGATATGCTAAGCTGT	CGACGCACTCTGTTGTCTG
<i>4E-BP (Thor)</i>	ACCCTCTACTCCACCACTCCT	CTTGCGGAAGGGAGTACG
<i>ATF4 (crc)</i>	AGGCCATAGTACCCGCAAAC	CCGCCTGTTTGTAAGCATCG
<i>scyl</i>	AAAATGGATGTTATTGCTCGGGA	CAGTCTGCTGGTCCAATCTTT
<i>CNMa</i>	TCCACTGGGCCATTGTCATTG	GGTGAGCAACAGATCCCTCAG
<i>GAPDH</i>	TAAATTCGACTCGACTCACGGT	CTCCACCACATACTCGGCTC
<i>Acetobacter</i>	TAGTGGCGGACGGGTGAGTA	AATCAAACGCAGGCTCCTCC
<i>Lactobacillus</i>	AGGTAACGGCTCACCATGGC	ATTCCCTACTGCTGCCTCCC

Supplementary Table 6, Amino acid compositions of the holidic medium used in this study.

Essential amino acid	g/L	Cat#
L-Arginine monohydrochloride*	1.63	SIGMA A5131
L-Histidine	0.65	SIGMA H8000
L-Lysine monohydrochloride*	1.37	SIGMA L5626
L-Methionine	0.6	SIGMA M9625
L-Phenylalanine	1.01	SIGMA P2126
L-Threonine	1.11	SIGMA T8625
L-Tryptophan	0.32	SIGMA T0254
L-Valine	1.2	SIGMA V0500
L-Leucine	2.03	SIGMA L8912
L-Isoleucine	1.12	SIGMA I2752
Non-essential amino acid	g/L	Cat#
L-Alanine	1.1	SIGMA A7627
L-Asparagine	1.03	SIGMA A0884
L-Aspartic acid sodium salt monohydrate*	1.17	SIGMA A6683
L-Cysteine hydrochloride*	0.34	SIGMA C1276
L-Glutamine	1.12	SIGMA G3126
Glycine	0.77	SIGMA G7126
L-Proline	0.98	SIGMA P0380
L-Serine	1.38	SIGMA S4500
L-Glutamic acid monosodium salt hydrate*	1.52	SIGMA G5889
L-Tyrosine	0.93	SIGMA T3754

Supplementary Table 7, Antibodies used in this study.

Antibody	Manufacturer	Catalog #	Dilution
anti- α + β Tubulin	abcam	ab44928	1:1000
anti-puromycin	Millipore	MABE343	1:1000
anti-phospho-S6	This study	N/A	1:2000
anti-eIF2 α	abcam	ab26197	1:1000
anti-phospho-eIF2 α	CST	3398S	1:500
anti-GFP	abcam	ab13970	1:2000
anti-5-HT	SIGMA	S5545	1:500
Goat Anti-Mouse IgG(H+L), Human ads-HRP	Southern Biotech	1031-05	1:1000
Peroxidase AffiniPure Goat Anti- Mouse IgG, Fc γ subclass 2a specific	Jackson ImmunoResearch	115-035-206	1:15000
Anti-rabbit IgG, HRP-linked Antibody	CST	7074S	1:1000
Alexa Fluor 488 goat anti-chicken	Invitrogen	A32931	1:1000
Alexa Fluor 555 goat anti-rabbit	Invitrogen	A32732	1:1000