

Supplemental Table S1. List of genes

Fly genes*			
Name	Symbol	Also known as	Flybase Description
Adipokinetic hormone	Akh		
Adipokinetic hormone receptor	AkhR		
Akt1	Akt1		AKT serine/threonine protein 1**
AMP-activated protein kinase $\alpha$ subunit	AMPK $\alpha$	AMPK	
Autophagy-related 8a	Atg8a		
cap-n-collar isoform-C	cncC	Nrf2	
Catalase	Cat		
chico	chico		insulin receptor substrate**
DJ-1a	DJ-1a		
DJ-1b	DJ-1b		
forkhead box, sub-group O	foxo	dFOXO	
Heat shock protein 22	Hsp22		
Heat shock protein 68	Hsp68		
Heat shock protein 70	Hsp70A or Hsp70B		
I'm not dead yet	Indy		
Insulin-like peptide 1	Iip1		
Insulin-like peptide 2	Iip2		
Insulin-like peptide 3	Iip3		
Insulin-like peptide 4	Iip4		
Insulin-like peptide 5	Iip5		
Insulin-like peptide 6	Iip6		
Insulin-like peptide 7	Iip7		
Insulin-like peptide 8	Iip8		
Insulin-like receptor	InR		
lethal (2) essential for life	l(2)efl		
Leucine-rich repeat kinase	Lrrk	LRRK2	
methuselah	mth		
Phosphoenolpyruvate carboxykinase	Pepck 1 or Pepck 2 <sup>#</sup>		phosphoenolpyruvate carboxykinase 2, mitochondrial**
Pi3K21B	Pi3K21B	PI3K	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha**
Regulatory particle non-ATPase 11	Rpn11		
Ribosomal protein S6 kinase	S6k	dS6K	
shaggy	sgg	GSK3	
sirtuin 1	Sirt1	Sir2	
spargel	srl	PGC-1	
Superoxide dismutase 1	Sod1		
Superoxide dismutase 2	Sod2		
Target of rapamycin	Tor		
thioredoxin peroxidase 1	Jafrac1		
Thor	Thor	4E-BP <sup>s</sup>	
transactive response DNA-binding protein-43 homolog	TBPH	TDP-43	
unpaired 2	upd2		

Human genes**			
Name	Symbol	Also known as	
amyloid beta precursor protein	APP		
beta-secretase 1	BACE1		
synuclein alpha	SNCA	h- $\alpha$ S	
microtubule associated protein tau	MAPT	tau	

\* flybase.org

# best score\_ortholog in FlyBase

<sup>s</sup> Thor is a eukaryotic translation initiation factor 4E binding protein (flybase.org description); 4E-binding serine/threonine protein 1 (uniprot.org).

\*\* HUGO- genenames.org