Table S2. RNAi phenotype of potential myosin light chain kinases in a let-502 mutant background

Elongation arrest at

Genotype	Human ortholog	25.5°C*	Penetrance [†]
N2		No	98%
let-502(sb118ts)		2-fold	98%
let-502(sb118ts);spk-1(RNAi)	SR-protein-specific kinase 1	2-fold	90%
slet-502(sb118ts);dapk-1(RNAi)	Death-associated protein kinase 1	2-fold	91%
let-502(sb118ts);aak-1(RNAi)	AMPK alpha-1 chain	2-fold	95%
let-502(sb118ts);aak-2(RNAi)	AMPK alpha-2 chain	2-fold	94%
let-502(sb118ts);gck-1(RNAi)	STE20-like kinase	2-fold	95%
let-502(sb118ts);gck-2(RNAi)	MEKKK 5	2-fold	92%
let-502(sb118ts);mig-15(RNAi)	MEKKK 4	2-fold	95%
let-502(sb118ts);ZC373.4(RNAi)	MLCK	2-fold	83%
let-502(sb118ts);mrck-1(RNAi)	MRCK	1.2-fold	90%
let-502(sb118ts);pak-1(RNAi)	p21-activated kinase 1	1.2-fold	98%

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Pet-502(sb118ts);pak-1(RNAI) p21-activated kinase 1 1.2-fold 98%

*N2 and let-502(sb118ts) young adults were injected with double-stranded RNA and subsequently stored at 25.5°C overnight. Synchronized embryos (8-10 hours after egg laying) were observed 24 hours after injection. N2 did not showed any major embryonic elongation defect.

Penetrance corresponds to the percentage of embryos showing the described embryonic elongation arrest*. Other phenotypes were observed (i.e. early embryonic arrest) but are not mentioned in this table. For each genotype. n≥40 embryos.