

Table S1. Genes and associated RNAi phenotypes for candidates obtained in the RNAi screen for elongation or cytoskeleton defects

Category	Transcript	Gene name	Function	Phenotype*	Penetrance [†]
Cytoskeleton associated	T12D8.6	<i>mlc-5</i>	Myosin essential light chain	No cytokinesis, arrest at 1.2-fold	100%
	Y66H1B.3	<i>filamin</i>	Cytoskeletal crosslinker	BMD, arrest before 2-fold, disorganised cytoskeleton	25%
	W07B3.2	<i>gei-4</i>	Regulator of intermediate filaments	BMD, arrest before 2-fold	20%
Trafficking	C56C10.3	<i>vps-32</i>	Protein sorting	BMD, arrest before 1.5-fold, defects in seam cell alignment	100%
	ZC518.2	<i>sec-24</i>	ER-to-Golgi transport	Arrest before 2-fold	60%
Unknown	F33H1.3			BMD, arrest before 2-fold	40%
	R08D7.2			BMD, arrest before 1.5-fold	20%

*Phenotype observed after RNAi feeding on *rrf-3(pk1426)* background.

[†]Percentage of embryos displaying the described phenotype.

BMD, body morphology defects.