

Key Resources Table				
Reagent type (species) or resource	Designation	Source or reference	Identifiers	Additional information
strain, strain background (<i>Escherichia coli</i>)	<i>E. coli</i> : OP50	<i>Caenorhabditis</i> Genetics Center	RRID: WB-STRAIN:OP50	
strain, strain background (<i>Escherichia coli</i>)	Ahringer RNAi library	(Kamath and Ahringer 2003)		
strain, strain background (<i>Escherichia coli</i>)	Vidal RNAi library	(Rual, et al. 2004)		
strain, strain background (<i>fungi</i>)	<i>Drechmeria coniospora</i>	(Lebrigand, et al. 2016)		
Genetic reagent (<i>C. elegans</i>)	IG274: <i>frls7[nlp-29p::GFP, col-12p::DsRed] IV</i>	(Pujol, et al. 2008)		
Genetic reagent (<i>C. elegans</i>)	IG823: <i>frls43[col-12p::SNF-12::GFP, ttx-3p::DsRed2] V</i>	(Dierking, et al. 2011)		
Genetic reagent (<i>C. elegans</i>)	IG1235: <i>cdIs73[RME-8::mRFP, unc-119(+); ttx-3p::GFP]; frls43[col-12p::SNF-12::GFP, ttx-3p::DsRed2]</i>	this study		Materials and methods section
Genetic reagent (<i>C. elegans</i>)	IG1236: <i>pwIs82[snx-1p::mRFP::SNX-1, unc-119(+)]; frls43[col-12p::SNF-12::GFP, ttx-3p::DsRed2]</i>	this study		Materials and methods section

Genetic reagent (<i>C. elegans</i>)	IG1270: <i>frEx453[pMS8(col-12p::GFP::STA-2),pMS9(col-12p::mCherry::SNF-12)]</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1623: <i>frSi9[pNP151(col-62p::Lifeact::mKate2_3'c-nmy), unc-119(+) ttTi5605] II</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1659: <i>frSi13[pNP159(dpy-7p::GFP::RAB-11 ttTi5605)] II</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1663: <i>frEx577[pNP158(snf-12p::SNF-12::GFP_3'snf-12, pCFJ90(myo-2p::mCherry), pCFJ104(myo-3p::mCherry)]</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1675: <i>frSi9[pNP151(col-62p::Lifeact::mKate2_3'c-nmy), unc-119(+) ttTi5605] II; juEx3762[col-19p::EBP-2::GFP, ttx-3p::RFP]</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1677: <i>frSi9[pNP151(col-62p::Lifeact::mKate2_3'c-nmy), unc-119(+) ttTi5605] II; frEx314[col-12p::SNF-12::GFP, ttx-3p::DsRed2]</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1720: <i>+/mcls54[dpy-7p::SPAS-1_IRES_NLSmCherry, unc-119(+)] X; frEx314[col-12p::SNF-12::GFP, ttx-3p::DsRed2]</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1723: <i>+/mcls54[dpy-7p::SPAS-1_IRES_NLSmCherry, unc-119(+)] X; juSi239[col-</i>	this study		Material s and methods section

	<i>19p::GFP::TBB-2] I; frEx314[col-12p::SNF-12::GFP, ttx-3p::DsRed2]</i>			
Genetic reagent (<i>C. elegans</i>)	IG1726: <i>mcls54[dpy-7p::SPAS-1_IRES_NLSmCherry, unc-119(+)] X; juEx3762[col-19p::EBP-2::GFP, ttx-3p::RFP]</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1729: <i>frSi16[pSO10(SEC::snf-12p::SNF-12::EGFP_3'snf-12) ttTi4348] I</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1784: <i>frEx597[pSO16(col-12p::SNF-12::mKate2_3'unc-54), pCFJ90(myo-2p::mCherry), pKS]</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1792: <i>frSi13[pNP158(dpy-7p::GFP::RAB-11) ttTi5605] II; frEx597[pSO16(col-12p::SNF-12::mKate2_3'unc-54), pCFJ90(myo-2p::mCherry), pKS]</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1796: <i>frIs43[col-12p::SNF-12::GFP, ttx-3p::DsRed2] V; qxls352[ced-1p::LAAT-1::mCherry]</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1798: <i>frIs43[col-12p::SNF-12::GFP, ttx-3p::DsRed2] V; qxls68[ced-1p::mCherry::RAB-7]</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1799: <i>frIs43[col-12p::SNF-12::GFP, ttx-3p::DsRed2] V; qxls513[ced-1p::mCherry::PLC-1-PH]</i>	this study		Material s and methods section

Genetic reagent (<i>C. elegans</i>)	IG1813: <i>frSi9[pNP151(col-62p::Lifeact::mKate2_3'c-nmy), unc-119(+)</i> <i>ttTi5605]/+ II; tbb-2(tj26[GFP::TBB-2]) III</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1848: <i>ebp-2(wow47[EBP-2::GFP]) II</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1933: <i>frSi9[pNP151(col-62p::Lifeact::mKate2_3'c-nmy), unc-119(+)</i> <i>ttTi5605] II; dnc-2[prt42(3xflag::gfp::DHC-2)] III</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1932: <i>maph-1.1(mib12[GFP::MAPH-1.1]) I; frSi9[pNP151(col-62p::Lifeact::mKate2_3'c-nmy), unc-119(+)</i> <i>ttTi5605] II</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1936: <i>tba-1(pg77[TagRFP-T::TBA-1]) I; frSi9[pNP151(col-62p::Lifeact::mKate2_3'c-nmy), unc-119(+)</i> <i>ttTi5605] II; juEx3762[col-19p::EBP-2::GFP, ttx-3p::RFP]</i>	this study		Material s and methods section
Genetic reagent (<i>C. elegans</i>)	IG1327: <i>rde-1(ne219) V; juls346[col-19p::RDE-1, ttx-3p::GFP] III; frls7[nlp-29p::GFP, col-12p::DsRed] IV</i>	(Zugasti, et al. 2014)		RNAi sensitive in the adult epidermis
Genetic reagent (<i>C. elegans</i>)	CZ13896: <i>juls319[col-19p::GCaMP3, col-19p::tdTomato]</i>	(Xu and Chisholm 2011)		
Genetic reagent (<i>C. elegans</i>)	CZ14453: <i>juEx3762[col-19p::EBP-2::GFP, ttx-3p::RFP]</i>	(Chuang, et al. 2016)		

Genetic reagent (<i>C. elegans</i>)	CZ14748: <i>juls352[GFP::moesin, ttx-3p::RFP] I</i>	(Xu and Chisholm 2011)		
Genetic reagent (<i>C. elegans</i>)	CZ21789: <i>juSi239[col-19p::GFP::TBB-2] I</i>	(Chuang, et al. 2016)		
Genetic reagent (<i>C. elegans</i>)	CZ9334: <i>juEx1919[dpy-7p::GFP::RAB-5, ttx-3p::RFP]</i>	(Chuang, et al. 2016)		
Genetic reagent (<i>C. elegans</i>)	MBA365: <i>Ex[dpy-7p::GFP::CAAX_3'unc-54, myo-2p::GFP]</i>	Michalis Barkoulas, UCL		
Genetic reagent (<i>C. elegans</i>)	ML1896: <i>mcls35[lin-26p::GFP::TBA-2, pat-4p::CFP, rol-6(su1006)]; mcls54[dpy-7p::SPAS-1_IRES_NLSmCherry, unc-119(+)] X</i>	(Quintin, et al. 2016)		
Genetic reagent (<i>C. elegans</i>)	NP878: <i>unc-119(ed3) III; cdl573[RME-8::mRFP, ttx-3p::GFP, unc-119(+)]</i>	(Shi, et al. 2009)		
Genetic reagent (<i>C. elegans</i>)	RT343: <i>pwls82[snx-1p::mRFP::SNX-1, unc-119(+)]</i>	(Sato, et al. 2014)		
Genetic reagent (<i>C. elegans</i>)	SA854: <i>tbb-2(tj26[GFP::TBB-2]) III</i>	(Honda, et al. 2017)		
Genetic reagent (<i>C. elegans</i>)	SA884: <i>tbb-1(tj30[GFP::TBB-1]) III</i>	(Honda, et al. 2017)		
Genetic reagent (<i>C. elegans</i>)	SV1009: <i>Is[wrt-2p::GFP::PH-PLC1δ, wrt-2p::GFP::H2B, lin-48p::mCherry]</i>	(Wildwater, et al. 2011)		

Genetic reagent (<i>C. elegans</i>)	XW6096: <i>qxIs352[ced-1p::LAAT-1::mCherry]</i>	(Liu, et al. 2012)		
Genetic reagent (<i>C. elegans</i>)	XW9653: <i>qxIs68[ced-1p::mCherry::RAB-7]</i>	(Liu, et al. 2012)		
Genetic reagent (<i>C. elegans</i>)	XW10992: <i>qxIs513[ced-1p::mCherry::PLC-1-PH]</i>	(Liu, et al. 2012)		
Genetic reagent (<i>C. elegans</i>)	JLF302: <i>ebp-2(wow47[EBP-2::GFP]) II; zif-1(gk117) III</i>	(Sallee, et al. 2018)		
Genetic reagent (<i>C. elegans</i>)	GOU2047 : <i>arx-2(cas607[GFP::ARX-2])</i>	(Wu, et al. 2017)		
Genetic reagent (<i>C. elegans</i>)	BOX188: <i>maph-1.1(mib12[GFP::MAPH-1.1]) I</i>	(Waaijers, et al. 2016)		
Genetic reagent (<i>C. elegans</i>)	GCP417 : <i>dnc-2[prt42(3xflag::gfp::DHC-2)] III</i>	(Barbosa, et al. 2017)		
Genetic reagent (<i>C. elegans</i>)	GN675: <i>tba-1(pg77[TagRFP-T::TBA-1]) I</i>	(Lockhead, et al. 2016)		
Recombinant DNA reagent	Plasmid <i>pSO16 (col-12p::SNF-12::mKate2_3'unc-54)</i>	This study		Material s and methods section
Recombinant DNA reagent	Plasmid <i>pSO10 (SEC::snf-12p::SNF-12::EGFP_3'snf-12)</i>	This study		Material s and methods section

Recombinant DNA reagent	Plasmid pNP159 (<i>dpy-7p::GFP::RAB-11</i>)	This study		RAB-11 reporter in the epidermis
Recombinant DNA reagent	Plasmid pNP158 (<i>snf-12p::SNF-12::GFP_3'snf-12</i>)	This study		Materials and methods section
Recombinant DNA reagent	Plasmid pNP151 (<i>col-62p::Lifeact::mKate2_3'c-nmy</i>)	This study		Actin reporter in the adult epidermis
Chemical compound, drug	levamisole	ACROS Organics™		
Commercial assay or kit	Gibson Assembly Image-NIH image RRID: SCR_003070	New England Biolabs		
Software, algorithm	Fiji/ImageJ	NIH image	RRID: SCR_003070	
Software, algorithm	ZEN	Zeiss https://www.zeiss.com/microscopy/us/downloads/zen.html		
Software, algorithm	VisiView	Visitron https://www.visitron.de/products/visiviewr-software.html		

Software, algorithm	Metamorph	https://www.moleculardevices.com/products/cellular-imaging-systems/acquisition-and-analysis-software/metamorph-microscopy#gref		
Software, algorithm	R	https://www.r-project.org/		
Software, algorithm	Matlab	https://www.mathworks.com/products/matlab.html		
Software, algorithm	GraphPad Prism 5	GraphPad Software, Inc.	RRID: SCR_002798	
Software, algorithm	CloneMapper	(Thakur, et al. 2014)		

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