

Supplementary Table 1: List of strains

S.No	Strain number	Genotype	Reference
1	N2	Bristol wild type	(Brenner, 1974)
2	NM2689	<i>jsIs821</i> [<i>mec-7p::gfp::rab-3</i>]	(Bounoutas <i>et al.</i> , 2009)
3	TT1555	<i>tbEx254</i> [<i>mec-7p::aman-II::mCherry</i>]; <i>jsIs821</i>	(Choudhary <i>et al.</i> , 2017)
4	TT2884	<i>tbIs388</i> [<i>mec-4p::sng-1::egfp</i>]	This study
5	TT2903	<i>tbIs381</i> [<i>mec-4p::ctns-1::mCherry</i>]	This study
6	TT3029	<i>pwSi113</i> [<i>mec-7p::mScarlet::rab-7::let858</i>] G418R	Barth Grant, this study
7	TT3007	<i>tbIs414</i> [<i>mec-7p::snb-1::egfp</i>]	This study
8	TT1884	<i>tbIs227</i> [<i>mec-4p::mCherry::rab-3</i>]	(Choudhary <i>et al.</i> , 2017)
9	NM664	<i>jsIs37</i> [<i>mec-7p::snb-1::gfp</i>]	(Nonet, 1999)
10	TT2710	<i>tbEx364</i> [<i>mec-4p::sng-1::egfp</i>]	This study
11	TT1519	<i>tbEx272</i>	This study
12	TT2918	<i>tbEx384</i>	This study
13	TT3286	<i>rab-7::mNeonGreen</i> ; <i>tbIs381</i>	Barth Grant, this study
14	TT3035	<i>pwSi225</i> [<i>mec-7p::lmp-1::mNeonGreen::let858</i>]; hygR	Barth Grant, this study
15	NM2156	<i>kyIs105</i> (<i>str-3p::SNB-1::GFP</i>)	This study
16	TT2636	<i>tbEx316</i> [<i>str-3p::ctns-1::mCherry</i>]	This study
17	TT1893	<i>oqEx</i> [<i>unc-101p::unc-101::gfp+pRF4</i>]	(Kaplan <i>et al.</i> , 2010)
18	TT2052	<i>kyEx3233</i> [<i>des2p::ebp-2::gfp</i>]	(Maniar <i>et al.</i> , 2012)
19	TT1612	<i>kyIs156</i> [<i>str-1p::odr-10::gfp</i>]	(Dwyer <i>et al.</i> , 2001)
20	TT3371	<i>tbEx486</i> [<i>rab-3p::apb-3::gfp</i>]	This study
21	TT1218	<i>lrk-1(km17)</i>	(Sakaguchi-Nakashima <i>et al.</i> , 2007)
22	TT1225	<i>lrk-1(km41)</i>	(Sakaguchi-Nakashima <i>et al.</i> , 2007)
23	TT2060	<i>apb-3(ok429)</i>	(Consortium, 2012)
24	TT1134	<i>syd-2(ok217)</i>	(Consortium, 2012)
25	TT148	<i>syd-2(ju37)</i>	(Zhen and Jin, 1999)
26	TT385	<i>unc-104(e1265tb120)</i>	(Kumar <i>et al.</i> , 2010)
27	TT1211	<i>unc-101(m1)</i>	(Lee, Jongeward and Sternberg, 1994)

Supplementary Table 2: List of plasmids

Strain name	Details	Plasmid	Plasmid details	Source
1 <i>tbEx272</i>	Generated by injecting TTpl509 (5 ng/μL) with <i>myo-2p::gfp</i> (50 ng/μL) as coinjection marker.	TTpl509	<i>mec-4p::ctns-1::mCherry. unc-129p</i> in KG#371 was replaced with <i>mec-4p</i> using HindIII and BamHI restriction sites.	This study. (Edwards <i>et al.</i> , 2013) KG#371 was a gift from K G Miller.
2 <i>tbEx369</i>	Generated by injecting TTpl509 (20 ng/μL) with <i>myo-2p::gfp::h2b</i> (TTpl592) (40 ng/μL) as coinjection marker.			
3 <i>tbEx364</i>	Generated by injecting TTpl696 (5 ng/μL) with <i>myo-2p::mCherry</i> (TTpl580) (10 ng/μL) as coinjection marker.	TTpl696	<i>mec-4p::sng-1::gfp. SNG-1::GFP</i> was amplified from NM491 and cloned into a <i>mec-4p</i> containing vector using NheI and EcoRV restriction sites.	This study. NM491 [pSY3 (SNG-1::GFP construct)]. (Zhao and Nonet, 2001) NM491 was a gift from Michael Nonet.
4 <i>tbEx316</i>	Generated by injecting TTpl653 (20 ng/μL) with <i>unc-122p::gfp</i> (TTpl572) (30 ng/μL) as coinjection marker.	TTpl635	<i>str-3p::ctns-1::mCherry. mec-4p</i> from TTpl509 was switched out for <i>str-3p</i> using BamHI and ApaI restriction sites.	This study. TTpl572 was a gift from Kavita Babu.
5 <i>tbEx486</i>	Generated by injecting TTpl796 (Isolate 2) (30 ng/μL) with <i>myo-2p::mCherry</i> (TTpl580) (10 ng/μL) as coinjection marker.	TTpl796	<i>rab-3p::apb-3::gfp. APB-3</i> was amplified from genomic DNA using Phusion Polymerase and cloned into a <i>rab-3p</i> containing vector (TTpl698) using NheI and AgeI restriction sites.	This study.
6 <i>tbEx384</i>	Generated by injecting TTpl684 (10 ng/μL) with <i>myo-2p::mCherry</i> (TTpl580) (10 ng/μL) as coinjection marker.	TTpl684	<i>mec-4p::snb-1::gfp</i>	This study. Plasmid was a gift from Michael Nonet.

Supplementary Table 3: (Associated with Fig. 2A)

Fraction of SNG-1 co-migrating with RAB-3

Genotype	P-value	Significant
One Way ANOVA with Tukey's post Hoc test		
WT vs <i>lrk-1</i>	0.04	Yes
WT vs <i>apb-3</i>	0.13	No
<i>lrk-1</i> vs <i>apb-3</i>	1.4E-05	Yes

Supplementary Table 4: (Associated with Fig. 2B)

Fraction of SNG-1 co-migrating with CTNS-1		
Genotype	P-value	Significant
Mann-Whitney Test		
WT vs <i>lrk-1(km17)</i>	3.2E-08	Yes
WT vs <i>apb-3(ok429)</i>	9.2E-09	Yes
WT vs <i>lrk-1(km17) apb-3</i>	1.4E-07	Yes
<i>lrk-1(km17)</i> vs <i>lrk-1 apb-3</i>	0.26	No
WT vs <i>lrk-1(km41)</i>	2.9E-07	Yes
<i>lrk-1(km17)</i> vs <i>lrk-1(km41)</i>	0.008	Yes
One Way ANOVA with Tukey's post Hoc test		
<i>apb-3</i> vs <i>lrk-1(km17) apb-3</i>	0.062	No
<i>lrk-1(km41)</i> vs <i>apb-3</i>	0.58	No

Supplementary Table 5: (Associated with Fig. S2B)

Fraction of CTNS-1 co-migrating with SNG-1		
Genotype	P-value	Significant
Mann-Whitney Test		
WT vs <i>lrk-1(km17)</i>	0.33	No
WT vs <i>lrk-1(km41)</i>	0.06	No
WT vs <i>apb-3(ok429)</i>	0.60	No
WT vs <i>lrk-1 apb-3</i>	0.07	No
<i>lrk-1(km17)</i> vs <i>lrk-1 apb-3</i>	0.15	No
<i>lrk-1(km17)</i> vs <i>lrk-1 apb-3; syd-2</i>	0.03	Yes
<i>apb-3</i> vs <i>apb-3; syd-2(ok217)</i>	0.86	No
WT vs <i>syd-2(ju37)</i>	0.063	No
WT vs <i>apb-3; syd-2(ju37)</i>	0.0056	Yes
WT vs <i>lrk-1; syd-2(ju37)</i>	0.0016	Yes
<i>syd-2(ju37)</i> vs <i>apb-3; syd-2(ju37)</i>	0.23	No
<i>syd-2(ju37)</i> vs <i>lrk-1; syd-2(ju37)</i>	0.09	No
WT vs <i>unc-104(e1265tb120)</i>	0.23	No
WT vs <i>lrk-1; unc-104(e1265tb120)</i>	0.09	No
WT vs <i>apb-3; unc-104(e1265tb120)</i>	0.03	Yes
WT vs <i>unc-104(e1265tb120); syd-2(ok217)</i>	0.03	Yes
<i>lrk-1(km17)</i> vs <i>lrk-1; unc-104(e1265tb120)</i>	0.3	No
<i>apb-3(ok429)</i> vs <i>apb-3; unc-104(e1265tb120)</i>	0.006	Yes
<i>syd-2(ok217)</i> vs <i>unc-104(e1265tb120); syd-2</i>	0.006	Yes
<i>unc-104(e1265tb120)</i> vs <i>unc-104; syd-2(ok217)</i>	0.46	No
<i>unc-104(e1265tb120)</i> vs <i>lrk-1; unc-104</i>	0.96	No
<i>unc-104(e1265tb120)</i> vs <i>apb-3; unc-104</i>	0.42	No
<i>lrk-1(km17)</i> vs <i>lrk-1; syd-2(ju37)</i>	0.0002	Yes
<i>apb-3; syd-2(ok217)</i> vs <i>apb-3; syd-2(ju37)</i>	0.02	Yes
<i>syd-2(ju37)</i> vs <i>unc-104(e1265tb120)</i>	0.78	No
<i>syd-2(ok217)</i> vs <i>syd-2(ju37)</i>	0.013	Yes
<i>apb-3</i> vs <i>lrk-1 apb-3</i>	0.04	Yes
<i>apb-3</i> vs <i>lrk-1 apb-3; syd-2</i>	0.01	Yes
<i>apb-3</i> vs <i>apb-3; syd-2(ju37)</i>	0.00068	Yes

lrk-1; syd-2(ok217) vs *lrk-1; syd-2(ju37)*

0.01

Yes

Supplementary Table 6: (Associated with Fig. 2C)

Fraction of SNG-1 co-migrating with RAB-7

Genotype	P-value	Significant
Mann-Whitney Test		
WT vs <i>lrk-1 apb-3</i>	5.3E-08	Yes
<i>lrk-1</i> vs <i>lrk-1 apb-3</i>	0.0016	Yes
<i>apb-3</i> vs <i>lrk-1 apb-3</i>	1.8E-06	Yes
One Way ANOVA with Tukey's post Hoc test		
WT vs <i>lrk-1(km17)</i>	0	Yes
WT vs <i>apb-3(ok429)</i>	1.5E-06	Yes
<i>apb-3</i> vs <i>lrk-1</i>	0.019	Yes

Supplementary Table 7: (Associated with Fig. S2D)

Fraction of RAB-7 co-migrating with SNG-1

Genotype	P-value	Significant
Mann-Whitney Test		
WT vs <i>lrk-1</i>	0.11	No
WT vs <i>apb-3</i>	0.02	Yes
WT vs <i>lrk-1 apb-3</i>	0.14	No
WT vs <i>syd-2</i>	0.83	No
WT vs <i>lrk-1; syd-2</i>	0.02	Yes
WT vs <i>apb-3; syd-2</i>	0.05	Yes
<i>lrk-1</i> vs <i>lrk-1; syd-2</i>	0.31	No
<i>lrk-1</i> vs <i>lrk-1 apb-3</i>	0.57	No
<i>apb-3</i> vs <i>apb-3; syd-2</i>	0.98	No
<i>apb-3</i> vs <i>lrk-1 apb-3</i>	0.19	No
<i>syd-2</i> vs <i>lrk-1; syd-2</i>	0.07	No
<i>syd-2</i> vs <i>apb-3; syd-2</i>	0.13	No
<i>lrk-1</i> vs <i>apb-3</i>	0.56	No
<i>lrk-1</i> vs <i>syd-2</i>	0.26	No
<i>apb-3</i> vs <i>syd-2</i>	0.08	No

Supplementary Table 8: (Associated with Fig. S2E)

Fraction of SNB-1 co-migrating with CTNS-1

Genotype	P-value	Significant
Mann-Whitney Test		
WT vs <i>lrk-1</i>	0.25	No
WT vs <i>apb-3</i>	0.053	No
<i>lrk-1</i> vs <i>apb-3</i>	0.9	No

Supplementary Table 9: (Associated with Fig. S2F)

Fraction of RAB-3 co-migrating with CTNS-1		
Genotype	P-value	Significant
Mann-Whitney Test		
WT vs <i>lrk-1</i>	0.28	No
WT vs <i>apb-3</i>	0.036	Yes
<i>lrk-1</i> vs <i>apb-3</i>	0.11	No

Supplementary Table 10: (Associated with Fig. 2H)

Analyses of APB-3::GFP puncta - number per cell body, size and intensity			
Analysis	Genotype	P-value	Significant
	Mann-Whitney Test		
Number of puncta per cell body	WT vs <i>lrk-1</i>	0.00008	Yes
	WT vs <i>syd-2</i>	0.00001	Yes
	<i>lrk-1</i> vs <i>syd-2</i>	0.00001	Yes

Supplementary Table 11: (Associated with Fig. 2I)

Analyses of APB-3::GFP puncta - number per cell body, size and intensity			
Analysis	Genotype	P-value	Significant
	Mann-Whitney Test		
Average size of puncta	WT vs <i>lrk-1</i>	0.00252	Yes
	WT vs <i>syd-2</i>	0.00386	Yes
	<i>lrk-1</i> vs <i>syd-2</i>	0.00001	Yes

Supplementary Table 12: (Associated with Fig. 2J)

Analyses of APB-3::GFP puncta - number per cell body, size and intensity			
Analysis	Genotype	P-value	Significant
Mann-Whitney Test			
Average mean puncta intensity to	WT vs <i>lrk-1</i>	0.03486	Yes
cytosolic intensity per cell body	WT vs <i>syd-2</i>	0.00001	Yes
	<i>lrk-1</i> vs <i>syd-2</i>	0.00001	Yes

Supplementary Table 13: (Associated with Fig. 3D)**Fraction of SNG-1 co-migrating with CTNS-1**

Genotype	P-value	Significant
Mann-Whitney Test		
WT vs <i>unc-104(e1265tb120)</i>	0.85	No
WT vs <i>lrk-1; unc-104(e1265tb120)</i>	0.015	Yes
WT vs <i>apb-3; unc-104(e1265tb120)</i>	0.015	Yes
<i>lrk-1(km17)</i> vs <i>lrk-1; unc-104(e1265tb120)</i>	1.1E-06	Yes
<i>apb-3(ok429)</i> vs <i>apb-3; unc-104(e1265tb120)</i>	7.6E-09	Yes
<i>unc-104</i> vs <i>lrk-1; unc-104(e1265tb120)</i>	0.005	Yes
<i>unc-104</i> vs <i>apb-3; unc-104(e1265tb120)</i>	0.008	Yes

Supplementary Table 14: (Associated with Fig. 4A)

Fraction of SNG-1 co-migrating with CTNS-1

Genotype	P-value	Significant
Mann-Whitney Test		
WT vs <i>syd-2(ok217)</i>	0.29	No
WT vs <i>lrk-1; syd-2(ok217)</i>	7.4E-08	Yes
WT vs <i>apb-3; syd-2(ok217)</i>	3.6E-01	Yes
WT vs <i>lrk-1 apb-3; syd-2</i>	7.2E-08	Yes
<i>lrk-1(km17)</i> vs <i>lrk-1; syd-2(ok217)</i>	0.047	Yes
<i>lrk-1(km17)</i> vs <i>lrk-1 apb-3; syd-2</i>	0.11	No
<i>apb-3</i> vs <i>apb-3; syd-2(ok217)</i>	4.4E-09	Yes
WT vs <i>syd-2(ju37)</i>	0.39	No
WT vs <i>apb-3; syd-2(ju37)</i>	0.007	Yes
WT vs <i>lrk-1; syd-2(ju37)</i>	5.6E-06	Yes
<i>syd-2(ju37)</i> vs <i>apb-3; syd-2(ju37)</i>	0.03	Yes
<i>syd-2(ju37)</i> vs <i>lrk-1; syd-2(ju37)</i>	2.5E-05	Yes
<i>lrk-1(km17)</i> vs <i>lrk-1; syd-2(ju37)</i>	0.98	No
<i>apb-3; syd-2(ok217)</i> vs <i>apb-3; syd-2(ju37)</i>	0.04	Yes
<i>syd-2(ok217)</i> vs <i>syd-2(ju37)</i>	0.01	Yes
One Way ANOVA with Tukey's post Hoc test		
<i>apb-3</i> vs <i>lrk-1 apb-3</i>	0.062	No
<i>apb-3</i> vs <i>lrk-1 apb-3; syd-2</i>	0.25	No
<i>apb-3</i> vs <i>apb-3; syd-2(ju37)</i>	7.9E-07	Yes
<i>lrk-1; syd-2(ok217)</i> vs <i>lrk-1; syd-2(ju37)</i>	0.025	Yes
<i>lrk-1 apb-3</i> vs <i>lrk-1 apb-3; syd-2(ok217)</i>	0.4734	No

Supplementary Table 15: (Associated with Fig. 4B)**Fraction of SNG-1 co-migrating with RAB-7**

Genotype	P-value	Significant
Mann-Whitney Test		
WT vs <i>apb-3</i> ; <i>syd-2</i>	0.56	No
<i>apb-3</i> vs <i>apb-3</i> ; <i>syd-2</i>	0.006	Yes
<i>syd-2</i> vs <i>apb-3</i> ; <i>syd-2</i>	0.11	No
One Way ANOVA with Tukey's post Hoc test		
WT vs <i>syd-2(ok217)</i>	0.88	No
<i>syd-2</i> vs <i>lrk-1</i>	0	Yes
<i>syd-2</i> vs <i>apb-3</i>	9.1E-08	Yes
WT vs <i>lrk-1</i> ; <i>syd-2</i>	6.9E-09	Yes
<i>lrk-1</i> ; <i>syd-2</i> vs <i>lrk-1</i>	7.3E-01	Yes
<i>lrk-1</i> ; <i>syd-2</i> vs <i>syd-2</i>	3.8E-07	Yes

Supplementary Table 16: (Associated with Fig. S3C)

Percentage vesicles co-migrating CTNS-1 and SNB-1		
Genotype	P-value	Significant
	Mann-Whitney test	
WT vs <i>syd-2</i>	0.39	No

Supplementary Table 17: (Associated with Fig. S3D)

Percentage vesicles co-migrating CTNS-1 and RAB-3		
Genotype	P-value	Significant
	Mann-Whitney test	
WT vs <i>syd-2</i>	1	No

Supplementary Table 18: (Associated with Fig. 4G)

Percentage vesicles co-migrating SNB-1 and RAB-3		
Genotype	P-value	Significant
One Way ANOVA with Tukey's post Hoc test		
WT vs <i>syd-2</i>	1.50E-08	Yes

Supplementary Table 19: (Associated with Fig. 4H)

Fraction of SNG-1 co-migrating with RAB-3

Genotype	P-value	Significant
One Way ANOVA with Tukey's post Hoc test		
WT vs <i>syd-2(ok217)</i>	0.49	No
<i>lrk-1</i> vs <i>syd-2</i>	1.8E-04	Yes
<i>apb-3</i> vs <i>syd-2</i>	0.78	No

Supplementary Table 20: (Associated with Fig. 5D)

Fraction of SNG-1 co-migrating with CTNS-1		
Genotype	P-value	Significant
Mann-Whitney Test		
WT vs <i>unc-104(e1265tb120); syd-2(ok217)</i>	0.95	No
<i>syd-2(ok217)</i> vs <i>unc-104(e1265tb120); syd-2</i>	0.28	No
<i>unc-104(e1265tb120)</i> vs <i>unc-104; syd-2(ok217)</i>	0.57	No

Supplementary Table 21: (Associated with Fig. 6G)

Analyses of UNC-101::GFP puncta - intensity, size and number per cell body

Analysis	Genotype	P-value	Significant
One Way ANOVA with Tukey's post Hoc test			
Average mean puncta intensity to cytosolic intensity per cell body	WT vs <i>syd-2(ok217)</i>	7.1E-08	Yes

Supplementary Table 22: (Associated with Fig. 6H)

Analyses of UNC-101::GFP puncta - intensity, size and number per cell body			
Analysis	Genotype	P-value	Significant
Mann-Whitney Test			
Puncta size average per cell body	WT vs <i>syd-2(ok217)</i>	1.1E-03	Yes

Supplementary Table 23: (Associated with Suppl. Fig. S4D)

Analyses of UNC-101::GFP puncta - intensity, size and number per cell body			
Analysis	Genotype	P-value	Significant
	Mann-Whitney Test		
Number of puncta per cell body	WT vs <i>syd-2(ok217)</i>	0.07	No

Supplementary Table 24: (Associated with Fig. 6J)

Analyses of UNC-101::GFP puncta – intensity per cell body			
Analysis	Genotype	P-value	Significant
Mann-Whitney Test			
Average mean puncta intensity to cytosolic intensity per cell body	WT vs <i>syd-2(ok217)</i>	0.033	Yes

Supplementary Table 25: (Associated with Suppl. Fig. S4F)

Analyses of average size of UNC-101::GFP puncta per cell body			
Analysis	Genotype	P-value	Significant
	Mann-Whitney Test		
Number of puncta per cell body	WT vs <i>syd-2(ju37)</i>	0.134	No

Supplementary Table 26: (Associated with Suppl. Fig. S4G)

Analyses of intensity of UNC-101::GFP puncta per cell body			
Analysis	Genotype	P-value	Significant
	Mann-Whitney Test		
Number of puncta per cell body	WT vs <i>syd-2(ju37)</i>	0.97	No

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