

Dataset S1 antibodies, strains, and primers used in this paper

REAGENT or RESOURCE	SOURCE	IDENTIFIER
Antibodies		
SLC30A9	Santa Cruz	sc-271956
Total OXPHOS	Abcam	ab110411
$\beta$ -Actin	Sungene Biotech	KM9001T
Experimental Models: Organisms/Strains		
<i>wyIs50054</i> [ <i>ser-2Prom3</i> ::TOMM-20(1-54AA)::GFP(10ng/ul) <i>ser-2Prom3</i> ::myr-mCherry(25ng/ul) <i>Pord-1</i> ::GFP(50ng/ul) ]	This paper	TV51447
<i>slc-30a9</i> ( <i>wy50572</i> ); <i>wyIs50054</i>	This paper	TV51704
<i>wyEx50820</i> [ <i>ser-2Prom3</i> ::SLC-30A9::GFP(10ng/ul) <i>Pmyo-2</i> ::mCherry(2ng/ul)]; <i>slc-30a9</i> ( <i>wy50572</i> ); <i>wyIs50054</i>	This paper	TV51705
<i>slc-30a9</i> ( <i>wy50591</i> ); <i>wyIs50054</i>	This paper	TV51706
<i>wyIs50077</i> [ <i>Pmyo-3</i> ::GFP::MIRO-1(10ng/ul)]	This paper	TV51612
<i>slc-30a9</i> ( <i>wy50591</i> ); <i>wyIs50077</i>	This paper	TV51707
<i>wySi50095</i> [ <i>Pdpy-7</i> ::TOMM-20(1-54AA)::mCherry(10ng/ul)]	This paper	TV51708
<i>slc-30a9</i> ( <i>wy50591</i> ); <i>wySi50095</i>	This paper	TV51709
<i>wyEx50821</i> [ <i>ser-2Prom3</i> ::SLC-30A9::GFP(10ng/ul) <i>ser-2Prom3</i> ::TOMM-20(1-54AA)::mCherry(10ng/ul) <i>Pord-1</i> ::GFP(50ng/ul) ]	This paper	TV51710
<i>wyEx50822</i> [ <i>Pdpy-7</i> ::SLC-30A9::GFP(10ng/ul) <i>Pord-1</i> ::GFP(50ng/ul) ]; <i>wySi50095</i>	This paper	TV51711

<i>wyEx50823</i> [ <i>ser-2Prom3::SLC-30A9</i> (20ng/ul) <i>Pmyo-2::mCherry</i> (2ng/ul)]; <i>slc-30a9</i> ( <i>wy50572</i> ); <i>wyIs50054</i>	This paper	TV51712
<i>wyEx50824</i> [ <i>ser-2Prom3::SLC-30A9</i> (H198A)(20ng/ul) <i>Pmyo-2::mCherry</i> (2ng/ul)]; <i>slc-30a9</i> ( <i>wy50572</i> ); <i>wyIs50054</i>	This paper	TV51713
<i>wyEx50825</i> [ <i>ser-2Prom3::SLC-30A9</i> (D323A)(20ng/ul) <i>Pmyo-2::mCherry</i> (2ng/ul)]; <i>slc-30a9</i> ( <i>wy50572</i> ); <i>wyIs50054</i>	This paper	TV51714
<i>wyEx50828</i> [ <i>ser-2Prom3::COX8</i> (4X):: <i>ZapCY1</i> (5ng/ul) <i>Pord-1::GFP</i> (50ng/ul)]	This paper	TV51717
<i>wyEx50829</i> [ <i>ser-2Prom3::COX8</i> (4X):: <i>ZapCY1</i> (5ng/ul) <i>Pord-1::GFP</i> (50ng/ul)]; <i>slc-30a9</i> ( <i>wy50591</i> )	This paper	TV51718
<i>him-5</i> ( <i>e1490</i> )	CGC	DR466
<i>slc-30a9</i> ( <i>wy50591</i> ); <i>him-5</i> ( <i>e1490</i> )	This paper	TV51719
<i>slc-30a9</i> ( <i>wy50591</i> )	This paper	TV51720
<i>fog-2</i> ( <i>q71</i> )	CGC	CB4108
<i>wyIs50091</i> [ <i>Pitr-1::TOMM-20</i> (1-54AA):: <i>GFP</i> (10ng/ul) <i>Pitr-1::mCherry::RAB-3</i> (10ng/ul) <i>Pord-1::GFP</i> (50ng/ul) ]	This paper	TV51448
<i>slc-30a9</i> ( <i>wy50591</i> ); <i>wyIs50091</i>	This paper	TV51721
<i>zcls13</i> [ <i>Phsp-6::GFP</i> ]	CGC	SJ4100
<i>zcls4</i> [ <i>Phsp-4::GFP</i> ]	CGC	SJ4005
<i>slc-30a9</i> ( <i>wy50591</i> ); <i>zcls13</i>	This paper	TV51722
<i>slc-30a9</i> ( <i>wy50572</i> ); <i>zcls4</i>	This paper	TV51723
<i>qxIs257</i> [ <i>Pced-1::nuc-1::mCherry</i> ]	Dr. Xiaochen Wang	XW5399
<i>slc-30a9</i> ( <i>wy50591</i> ); <i>qxIs257</i>	This paper	TV51894
<i>qxIs439</i> [ <i>Phyp-7::GFP::TRAM-1</i> (20ng/ul)]; <i>wySi50095</i> [ <i>Pdpy-7::TOMM-20</i> (1-54AA):: <i>mCherry</i> (10ng/ul)]	Crossing( <i>qxIs439</i> from Dr. Xiaochen Wang)	TV51895
<i>slc-30a9</i> ( <i>wy50591</i> ); <i>qxIs439</i> ; <i>wySi50095</i>	This paper	TV51896
Recombinant DNA		

pPD95.77_ser-2Prom3::myri-mCherry	This paper	pOL036
pPD95.77_ser-2Prom3::TOMM-20(1-54AA)::GFP	This paper	pXM289
pPD95.77_ser-2Prom3::SLC-30A9::GFP	This paper	pDHC68
pPD95.77_Pmyo-3::GFP::MIRO-1	This paper	pYS103
pPD95.77_Pdpy-7::TOMM-20(1-54AA)::mCherry	This paper	pYS364
pPD95.77_ser-2Prom3::TOMM-2(54AA)::mCherry	This paper	pXM222
pPD95.77_Pdpy-7::SLC-30A9::GFP	This paper	pDHC94
pPD95.77_ser-2Prom3::SLC-30A9	This paper	pDHC64
pPD95.77_ser-2Prom3::SLC-30A9(H198A)	This paper	pDHC89
pPD95.77_ser-2Prom3::SLC-30A9(D323A)	This paper	pDHC90
pPD95.77_ser-2Prom3::COX84X::ZapCY1	This paper	pDHC86
pPD95.77_Pitr-1::TOMM-20(1-54AA)::GFP	This paper	pXM485
pPD95.77_Pitr-1::mCherry::RAB-3	This paper	pDHC50
pPD95.77_ser-2Prom3::stc-1::ZapCY1::kdel	This paper	pDHC168
pCDH-SLC30A9-GFP	This paper	pDHC187
pCDH-SLC30A9(A350Del)-GFP	This paper	pDHC188
pCDH-MTS-mtagBFP2	This paper	pDHC192
AAV-U6-sgRNA-CMV-mCherry	Dr. Wensheng Wei	
pcDNA3.1-Mito-SoNar	Dr. Yi Yang	
pcDNA3.1-Mito-Grx1 roGFP2	This paper	
Oligonucleotides		
CCCTGTAGTCATCCATATATTGG	This paper	<i>SLC30A9</i> sgRNA-F
CCAATATATGGATGACTACAGGG	This paper	<i>SLC30A9</i> sgRNA-R
TGGTTCCTGTAGTCATCCATATA	This paper	<i>SLC30A9</i> Q-PCR primer F

TTGAGCCATACTCCCTTTTCTTA	This paper	<i>SLC30A9</i> Q-PCR primer R
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