## **KEY RESOURCES TABLE**

REAGENT or RESOURCE	SOURCE	IDENTIFIER	
Antibodies	1		
Rabbit anti-WASH1 (C-terminal)	Sigma Aldrich	Catalog #SAB42200373	
Rabbit anti-Strumpellin	Santa Cruz	Catalog #SC-87442	
Rabbit anti-EEA1	Cell Signaling Technology	Clone #C45B10	
Rat anti-Cathepsin D	Novus Biologicals	Clone #204712	
Rabbit anti-Cleaved Caspase-3	Cell Signaling Technology	Antibody #9661	
Guinea Pig anti-MAP2	Synaptic Systems	Catalog #188004	
Mouse anti-Calbindin	Sigma Aldrich	Clone #CB-955	
Mouse anti-Beta Tubulin III	Sigma Aldrich	Clone #SDL.3D10	
Mouse anti-HA	BioLegend	Clone #16B12	
Rat anti-HA	Sigma Aldrich	Clone #3F10	
Critical Commercial Assays			
TMTpro™ 16plex Label Reagent	Thermo Fisher	N/A	
NeutrAvidin® Agarose Resins	Thermo Fisher	N/A	
S-Trap™ Binding Buffer	<u>Profiti</u>	N/A	
Deposited Data			
WASH1 iBioID Data	<u>GitHub</u>	N/A	
SWIPP1019R TMT Data	GitHub	N/A	
Experimental Models: Cell Lines	<del></del>		
HEK293T cells	Duke Cell Culture Facility	ATCC #CRL-11268	
Experimental Models: Organisms/Strains			
SWIP <sup>P1019R</sup> mice	Duke Transgenic Mouse Facility	ENSMUSG0000003 4560	
B6SJLF1/J mice	Jackson Laboratories	Jax #100012	
C57BL/ 6J mice	<u>Jackson Laboratories</u>	Jax #000664	
Oligonucleotides			
CRISPR sgRNA and repair oligo used to generate SWIPP1019R mice	Eton Bioscience	Table S4	
Primers for PCR and genetic sequencing of SWIPP1019R mice	Eton Bioscience	Table S4	
pmCAG-SWIP-WT-HA mutagenesis primers	Eton Bioscience	Table S4	
Recombinant DNA	, <del>=</del>		
pmCAG-SWIP-WT-HA	SHS	Sequence	
pmCAG-SWIP-MUT-HA	SHS	Sequence	
phSyn1-WASH1-BioID2-HA	SHS	Sequence	
phSyn1-solubleBioID2-HA	SHS	Sequence	
pAd-DeltaF6	SHS	Sequence	
pAAV2/9	SHS	Sequence	
Software and Algorithms	<u> </u>	<u>35445.106</u>	
Courtland et al., source code	GitHub	N/A	
Leiden Algorithm	conda	Version 0.8.1	

EdgeR	<u>BioConductor</u>	Version 3.1.1
NetRep	GitHub	Version 1.2.1
Cytoscape	https://cytoscape.org/	Version 3.7.2
Imaris	Oxford Instruments	Version 9.2.0
Zen	Zeiss	Version 2.3
Fiji	https://fiji.sc/	Version 2.0.0-rc- 69/1.52p
GraphPad Prism	GraphPad Software	Version 8.0
Proteome Discoverer	Thermo Fisher	Versions 2.2 and 2.4
Mascot Distiller and Mascot Server	Matrix Sciences	Version 2.5
TreadScan NeurodegenScanSuite	CleverSys Inc	N/A
EthoVision XT	Noldus Information Technology	Version 11.0
Rotarod apparatus for mouse	Med Associates	Catalog #ENV-575M
Fear conditioning chamber	Med Associates	Catalog #VFC-008- LP
FreezeScan software	CleverSys Inc	N/A
Startle reflex chamber and software	Med Associates	Catalog #MED-ASR- PRO1
Other		
Geladaki et al.'s, LOPIT-DC protocol	<u>PubMed</u>	N/A
Orbitrap Fusion™ Lumos™ Tribrid™ Mass Spectrometer	Duke Proteomics and Metabolomics Shared Resource	N/A
Thermo QExactive HF-X Mass Spectrometer	Duke Proteomics and Metabolomics Shared Resource	N/A
Zeiss 710 LSM confocal microscope	Duke Light Microscopy Core Facility (LCMF)	N/A
Reichert Ultracut E Microtome	Duke Department of Pathology	N/A
Phillips CM12 Electron Microscope	Duke Department of Pathology	N/A
Beckman XL-90 Centrifuge and Ti-70 rotor	<u>Duke Department of</u> <u>Cell Biology</u>	N/A
Beckman TLA-100 Ultracentrifuge and TLA-55 rotor	<u>Duke Department of</u> <u>Cell Biology</u>	N/A