**KEY RESOURCES TABLE**

|  |  |  |
| --- | --- | --- |
| **REAGENT or RESOURCE** | **SOURCE** | **IDENTIFIER** |
| **Antibodies** | | |
| Rabbit anti-WASH1 (C-terminal) | [Sigma Aldrich](https://github.com/twesleyb/SwipProteomics/blob/master/refs/sab4200373dat.pdf) | Catalog #SAB42200373 |
| Rabbit anti-Strumpellin | [Santa Cruz](https://www.citeab.com/antibodies/837787-sc-87442-strumpellin-antibody-c-14) | Catalog #SC-87442 |
| Rabbit anti-EEA1 | [Cell Signaling Technology](https://www.cellsignal.com/products/primary-antibodies/eea1-c45b10-rabbit-mab/3288) | Clone #C45B10 |
| Rat anti-Cathepsin D | [Novus Biologicals](https://www.novusbio.com/products/cathepsin-d-antibody-204712_mab1029) | Clone #204712 |
| Rabbit anti-Cleaved Caspase-3 | [Cell Signaling Technology](https://www.cellsignal.com/products/primary-antibodies/cleaved-caspase-3-asp175-antibody/9661) | Antibody #9661 |
| Guinea Pig anti-MAP2 | [Synaptic Systems](https://sysy.com/product/188004) | Catalog #188004 |
| Mouse anti-Calbindin | [Sigma Aldrich](https://www.sigmaaldrich.com/catalog/product/sigma/c9848?lang=en&region=US) | Clone #CB-955 |
| Mouse anti-Beta Tubulin III | [Sigma Aldrich](https://www.sigmaaldrich.com/catalog/product/sigma/t8660?lang=en&region=US) | Clone #SDL.3D10 |
| Mouse anti-HA | [BioLegend](https://www.biolegend.com/en-us/products/anti-ha-11-epitope-tag-antibody-11071) | Clone #16B12 |
| Rat anti-HA | [Sigma Aldrich](https://www.sigmaaldrich.com/catalog/product/roche/roahaha?lang=en&region=US) | Clone #3F10 |
| **Critical Commercial Assays** | | |
| TMTpro™ 16plex Label Reagent | [Thermo Fisher](https://www.thermofisher.com/order/catalog/product/A44520#/A44520) | N/A |
| NeutrAvidin® Agarose Resins | [Thermo Fisher](https://www.thermofisher.com/order/catalog/product/29201#/29201) | N/A |
| S-Trap™ Binding Buffer | [Profiti](https://www.protifi.com/s-trap/) | N/A |
| **Deposited Data** | | |
| WASH1 iBioID Data | [GitHub](https://github.com/twesleyb/SwipProteomics) | N/A |
| SWIPP1019R TMT Data | [GitHub](https://github.com/twesleyb/SwipProteomics) | N/A |
| **Experimental Models: Cell Lines** | | |
| HEK293T cells | [Duke Cell Culture Facility](https://ccf.duhs.duke.edu/) | [ATCC #CRL-11268](https://www.atcc.org/products/all/CRL-11268.aspx) |
| **Experimental Models: Organisms/Strains** | | |
| SWIPP1019R mice | [Duke Transgenic Mouse Facility](http://www.dukecancerinstitute.org/transgenic-and-knockout-mouse) | [ENSMUSG00000034560](https://useast.ensembl.org/Mus_musculus/Gene/Summary?db=core;g=ENSMUSG00000034560;r=10:83543752-83596473) |
| B6SJLF1/J mice | [Jackson Laboratories](https://www.jax.org/strain/100012) | Jax #100012 |
| C57BL/ 6J mice | [Jackson Laboratories](https://www.jax.org/strain/000664) | Jax #000664 |
| **Oligonucleotides** | | |
| CRISPR sgRNA and repair oligo used to generate SWIPP1019R mice | [Eton Bioscience](https://www.etonbio.com/) | Table S4 |
| Primers for PCR and genetic sequencing of SWIPP1019R mice | [Eton Bioscience](https://www.etonbio.com/) | Table S4 |
| pmCAG-SWIP-WT-HA mutagenesis primers | [Eton Bioscience](https://www.etonbio.com/) | Table S4 |
| **Recombinant DNA** | | |
| pmCAG-SWIP-WT-HA | [SHS](mailto:scott.soderling@duke.edu) | [Sequence](https://github.com/twesleyb/SwipProteomics/tree/master/dna/) |
| pmCAG-SWIP-MUT-HA | [SHS](mailto:scott.soderling@duke.edu) | [Sequence](https://github.com/twesleyb/SwipProteomics/tree/master/dna/) |
| phSyn1-WASH1-BioID2-HA | [SHS](mailto:scott.soderling@duke.edu) | [Sequence](https://github.com/twesleyb/SwipProteomics/tree/master/dna/) |
| phSyn1-solubleBioID2-HA | [SHS](mailto:scott.soderling@duke.edu) | [Sequence](https://github.com/twesleyb/SwipProteomics/tree/master/dna/) |
| pAd-DeltaF6 | [SHS](mailto:scott.soderling@duke.edu) | [Sequence](https://github.com/twesleyb/SwipProteomics/tree/master/dna/) |
| pAAV2/9 | [SHS](mailto:scott.soderling@duke.edu) | [Sequence](https://github.com/twesleyb/SwipProteomics/tree/master/dna/) |
| **Software and Algorithms** | | |
| Courtland *et al.*, source code | [GitHub](https://github.com/twesleyb/SwipProteomics) | N/A |
| Leiden Algorithm | [conda](https://anaconda.org/conda-forge/leidenalg) | Version 0.8.1 |
| EdgeR | [BioConductor](https://bioconductor.org/packages/release/bioc/html/edgeR.html) | Version 3.1.1 |
| NetRep | [GitHub](https://github.com/cran/NetRep) | Version 1.2.1 |
| Cytoscape | <https://cytoscape.org/> | Version 3.7.2 |
| ggplot2 | [tidyverse.org](https://ggplot2.tidyverse.org/) | Version 3.3.2 |
| Imaris | [Oxford Instruments](https://imaris.oxinst.com/) | Version 9.2.0 |
| Zen | [Zeiss](https://www.zeiss.com/microscopy/int/products/microscope-software/zen.html) | Version 2.3 |
| Fiji | <https://fiji.sc/> | Version 2.0.0-rc-69/1.52p |
| GraphPad Prism | [GraphPad Software](https://www.graphpad.com/scientific-software/prism/) | Version 8.0 |
| Proteome Discoverer | [Thermo Fisher](https://www.thermofisher.com/us/en/home/industrial/mass-spectrometry/liquid-chromatography-mass-spectrometry-lc-ms/lc-ms-software/multi-omics-data-analysis/proteome-discoverer-software.html) | Versions 2.2 and 2.4 |
| Mascot Distiller and Mascot Server | [Matrix Sciences](https://www.matrixscience.com/distiller.html) | Version 2.5 |
| TreadScan NeurodegenScanSuite | [CleverSys Inc](http://cleversysinc.com/CleverSysInc/) | N/A |
| EthoVision XT | [Noldus Information Technology](https://www.noldus.com/ethovision-xt) | Version 11.0 |
| Rotarod apparatus for mouse | [Med Associates](https://www.med-associates.com/) | Catalog #ENV-575M |
| Fear conditioning chamber | [Med Associates](https://www.med-associates.com/) | Catalog #VFC-008-LP |
| FreezeScan software | [CleverSys Inc](http://cleversysinc.com/CleverSysInc/csi_products/freezescan-2/#blank) | N/A |
| Startle reflex chamber and software | [Med Associates](https://www.med-associates.com/) | Catalog #MED-ASR-PRO1 |
| **Other** | | |
| Geladaki *et al*.’s, LOPIT-DC protocol | [PubMed](https://pubmed.ncbi.nlm.nih.gov/30659192/) | N/A |
| Orbitrap Fusion™ Lumos™ Tribrid™ Mass Spectrometer | [Duke Proteomics and Metabolomics Shared Resource](https://genome.duke.edu/cores-and-services/proteomics-and-metabolomics) | N/A |
| Thermo QExactive HF-X Mass Spectrometer | [Duke Proteomics and Metabolomics Shared Resource](https://genome.duke.edu/cores-and-services/proteomics-and-metabolomics) | N/A |
| Zeiss 710 LSM confocal microscope | [Duke Light Microscopy Core Facility (LCMF)](https://microscopy.duke.edu/) | N/A |
| Reichert Ultracut E Microtome | [Duke Department of Pathology](https://pathology.duke.edu/core-facilities-services/research-electron-microscopy-service) | N/A |
| Phillips CM12 Electron Microscope | [Duke Department of Pathology](https://pathology.duke.edu/core-facilities-services/research-electron-microscopy-service) | N/A |
| Beckman XL-90 Centrifuge and Ti-70 rotor | [Duke Department of Cell Biology](https://www.cellbio.duke.edu/) | N/A |
| Beckman TLA-100 Ultracentrifuge and TLA-55 rotor | [Duke Department of Cell Biology](https://www.cellbio.duke.edu/) | N/A |