

Ensembles of human myosin-19 bound to calmodulin and regulatory light chain RLC12B drive multimicron transport

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Luther W. Pollard 🧐, Stephen M. Coscia 🐪 Grzegorz Rebowski 🔒 Nicholas J. Palmer 📑 , Erika L. F. Holzbaur 🧐, Roberto Dominguez , and E. Michael Ostap

From the ¹Department of Physiology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, USA: Pennsylvania Muscle Institute, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, USA; ^aCell and Molecular Biology Graduate Group, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, USA; and "Biochemistry and Molecular Biophysics Graduate Group, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, USA

Edited by Enrique De La Cruz

Myosin-19 (Myo19) controls the size, morphology, and distribution of mitochondria, but the underlying role of Myo19 motor activity is unknown. Complicating mechanistic in vitro studies, the identity of the light chains (LCs) of Myo19 remains unsettled. Here, we show by coimmunoprecipitation, reconstitution, and proteomics that the three IQ motifs of human Myo19 expressed in Expi293 human cells bind regulatory light. chain (RLC12B) and calmodulin (CaM). We demonstrate that overexpression of Myo19 in HeLa cells enhances the recruitment of both Myo19 and RLC12B to mitochondria, suggesting cellular association of RLC12B with the motor, Further experiments revealed that RLC12B binds IQ2 and is flanked by two CaM molecules. In vitro, we observed that the maximal speed (~350 nm/s) occurs when Myo19 is supplemented with CaM, but not RLC12B, suggesting maximal motility requires binding of CaM to IQ-1 and IQ-3. The addition of calcium slowed actin gliding (\sim 200 nm/s) without an apparent effect on CaM affinity. Furthermore, we show that small ensembles of Myo19 motors attached to quantum dots can undergo processive runs over several microes, and that calcium reduces the attachment frequency and run length of Myo19. Together, our data are consistent with a model where a few single-headed Myo19 molecules attached to a mitochondrion can sustain prolonged motile associations with actin in a CaM- and calcium-dependent manner. Based on these properties, we propose that Myo19 can function in mitochondria transport along actin filaments, tension generation on multiple randomly oriented filaments, and/or pushing against branched actin networks assembled near the membrane surface.

Mitochondrial dynamics are paramount for cell survival and are perturbed in neurodegenerative diseases, hearing loss, and cancer (1-3). Mitochondrial health requires fusion and fission events that ensure an even inheritance of undamaged proteins and mitochondrial DNA. In addition, mitochondria need to be

redistributed appropriately before cell division. Myosin-19 (Myo19) has critical roles in mitochondrial partitioning (4, 5), regulating the balance of fission and fusion (6), and has recently been implicated in cristae organization (7). Myo19 dysregulation is associated with glioma, breast cancer, and hearing impairment (8~10). How Myo19 participates in these functions at the molecular level remains an open question.

Myo19 belongs to its own class-19 subgroup of the myosin superfamily that shares a conserved, plus enddirected motor domain (MD), a lever arm containing three light chain (LC)-binding IQ motifs, and a unique tail region termed the Myosin Mitochondrial Outer Membrane-Associated (MyMOMA) domain that directs Myo19 to mitochondria (Fi. 1A) (11-14). The MyMOMA domain contains a putative monotopic membrane insertion segment and a segment that interacts with the mitochondrial Rho GTPases. Mirol and Miro2 (15-17). Myo19 was recently found to associate with the SAM-MICOS complex that bridges the outer and inner mitochondrial membranes and may thus act as a mechanical tether for cristae formation and regulation

A gap in our knowledge regarding the molecular mechanism of Myo19 is the identity of the LCs that bind to its lever arm. Most biochemical studies have been performed assuming calmodulin (CaM) binds the three IQs of Myo19 (12, 14, 18). However, one study identified RLC9 (MYL9/MRLC1) and RLC12B (MYL12B/MRLC2), but not CaM, as the endogenous LCs of Myo19 using proteomics and reconstitution experiments (13). In the proteomic screen, recombinant Mvo19 was exposed to a kidney extract to identify novel tissue-level binding partners. It is possible, however, that there are tissue-specific differences in the LC composition of Myo19 or that the IQs were not fully occupied. RLC12B is ubiquitously expressed, whereas RLC9 is a more specialized LC isoform expressed in many but not all tissues. Since Myo19 is also ubiquitously expressed (11), it is possible that RLC9 is not always bound. The primary sequences of the putative IQ motifs of Mvo19 deviate to varying degrees from the consensus IQ sequence and provide no obvious indication as to the

^{*} For correspondence: E. Michael Ostap, ostap@pennmedicine.upenn.edu; Roberto Dominguez, dirobertodipennimedicine upenniedu.

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 - The Rise of Digital Reading Micron Transport T23manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Micron Transport T23manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Micron Transport T23manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Micron Transport T23manual
 - Personalized Recommendations
 - Micron Transport T23manual User Reviews and Ratings
 - Micron Transport T23manual and Bestseller Lists
- 5. Accessing Micron Transport T23manual Free and Paid eBooks
 - Micron Transport T23manual Public Domain eBooks

- Micron Transport T23manual eBook Subscription Services
- Micron Transport T23manual Budget-Friendly Options
- 6. Navigating Micron Transport T23manual eBook Formats
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 - Micron Transport T23manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Micron Transport T23manual
 - Interactive Elements Micron Transport T23manual
- 8. Staying Engaged with Micron Transport T23manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Micron Transport T23manual
- 9. Balancing eBooks and Physical Books Micron Transport T23manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Micron Transport T23manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Micron Transport T23manual
 - Setting Reading Goals Micron Transport T23manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Micron Transport T23manual
 - Fact-Checking eBook Content of Micron Transport T23manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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