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Cover photograph (Copyright © 2012, American Society for Microbiology. All Rights Reserved.): A member of the evolutionarily conserved LMBR1 domain, nine-span membrane protein family lining an endocytic cup of a growing *Dictyostelium discoideum* cell. Polymerized F-actin is stained with phalloidin (green) and the LMBR1 domain protein is stained with antibody (red). Loss of this LMBR1 domain protein results in defects in chemotaxis. (See related article on page 401.)