

# Recombinant Full Length Human MLPH Protein, GST-tagged

Cat. No. MLPH-6370HF    Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human MLPH full-length ORF ( NP_077006.1, 1 a.a. - 600 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	600 amino acids
<b>Description</b>	This gene encodes a member of the exophilin subfamily of Rab effector proteins. The protein forms a ternary complex with the small Ras-related GTPase Rab27A in its GTP-bound form and the motor protein myosin Va. A similar protein complex in mouse functions to tether pigment-producing organelles called melanosomes to the actin cytoskeleton in melanocytes, and is required for visible pigmentation in the hair and skin. A mutation in this gene results in Griscelli syndrome type 3, which is characterized by a silver-gray hair color and abnormal pigment distribution in the hair shaft. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq]
<b>Molecular Mass</b>	92.3 kDa
<b>AA Sequence</b>	MGKKLDLSKLTDEEAQHVLEVVRDFDLRRKKEERLEALKGKIKKESKRELLSDTA HLNETHCARCLQPYQLLVNSKRQCLEGLFTCKSCGRVHPEEQGWICDPCHLARV VKIGSLEWYYEHVKARFKRFGSAKVIKIRSLHGRLQGGAGPELISEERSGDSQDDED

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GEPGSEAQAQAQPFQSGKKRLLSVHDFDFEGDSDSTQPQGHSLHLSSVPEARDS  
 PQSLTDESCSEKAAPHKAEGLEEADTGASGCHSHPEEQPTSISPSRHGALAEPCPP  
 GGSHRMALGTAAALGSNVIRNEQLPLQYLADVDTSDEESIRAHVMASHHSKRRGRA  
 SSESQIFELNKHISAVECLLTYLENTVVPPLAKGLGAGVRTEADVVEEALRRKLEELT  
 SNVSDQETSSEEEEEAKDEKAEPNRDKSVGPLPQADPEVGTAAHQTNRQEKSPQDP  
 GDPVQYNRTTDEELSELEDRVAVTASEVQQAEESEVSDIESRIAALRAAGLTVKPSGK  
 PRRKSNLPIFLPRVAGKLGKRPEDPNADPSSEAKAMAVPYLLRRKFSNSLKSQGKD  
 DDSFDRKSVYRGLTQRNPNARKGMASHTFAKPVVAHQ

<b>Applications</b>	Antibody Production Functional Study Compound Screening
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	MLPH melanophilin [ <a href="#">Homo sapiens</a> ]
<b>Official Symbol</b>	MLPH
<b>Synonyms</b>	MLPH; melanophilin; exophilin 3; I(1) 3Rk; I1Rk3; In; Slac 2a; exophilin-3; synaptotagmin-like protein 2a; slp homolog lacking C2 domains a; SLAC2-A; MGC2771; MGC59733;
<b>Gene ID</b>	79083

<b>mRNA Refseq</b>	NM_001042467
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<b>Protein Refseq</b>	NP_001035932
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<b>MIM</b>	606526
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<b>UniProt ID</b>	Q9BV36
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