

Recombinant Full Length Human MLPH Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human MLPH full-length ORF (NP_077006.1, 1 a.a. - 600 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	600 amino acids
Description	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]
Molecular Mass	92.3 kDa
AA Sequence	MGKKLDLSKLTDEEAQHVLVVQRDFDLRRKEEERLEALKGKIKKESSKRELLSDTA HLNETHCARCLQPYQLLVNSKRQCLEGLFTCKSCGRVHPPEEQGWICDPCHLARV VKIGSLEWYYEHVKARFKRFGSAKVIRSLHGRLQGGAGPELISEERSGDSQDQDDED

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GEPGSEAQAQAQPFSGSKKRLLSVHDFDFEGDSDDSTQPQGHSLHLSSVPEARDS
 PQSLTDESCSEKAAPHKAEGLEEADTGASGCHSHPEEQPTSISPSRHGALAECLCPP
 GGSHRMALGTAAALGSNVIRNEQLPLQYLADVDTSDDEESIRAHVMASHHSKRRGRA
 SSESQIFELNKHISAVECLLTYLENTVVPPLAKGLGAGVRTEADVVEEALRRKLEELT
 SNVSDQETSSEEEEEAKDEKAEPNRDKSVGPLPQADPEVGTAAHQTNRQEKSPQDP
 GDPVQYNRTTDEELSELEDRVAVTASEVQQAEEVSDIESRIAALRAAGLTVKPSGK
 PRRKSNLPIFLPRVAGKLGKRPEDPNADPSSEAKAMAVPYLLRRKFSNSLKSQGKD
 DDSFDRKSVYRGSLTQRNPNARKGMASHTFAKPVVAHQ

Applications
 Antibody Production
 Functional Study
 Compound Screening

Notes
 Best use within three months from the date of receipt of this protein.

Storage
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name
[MLPH melanophilin \[Homo sapiens \]](#)

Official Symbol
[MLPH](#)

Synonyms
 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;

Gene ID
[79083](#)

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mRNA Refseq	NM_001042467
Protein Refseq	NP_001035932
MIM	606526
UniProt ID	Q9BV36

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