

MLPH cDNA

Catalog Number: ATGD0157

PRODUCT INFORMATION

Catalog number

ATGD0157

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001035932.1

Alternative Names

SLAC2-A

mRNA Refseq

NM_001042467.2

OMIM

606526

Chromosome location

2q37.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1719bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Hind III. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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MLPH 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 encoding different isoforms have been found for this gene.

DATA

Sequence nucleotides

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ATGGGGAAGAACTGGATCTTTCCAAGCTCACTGATGAAGAGGCCAGCATGTCTTGGAAGTTGTTCAACGAGATTTTGACC
TCCGAAGGAAAGAAGAGGAACGGCTAGAGGCGTTGAAGGGCAAGATTAAGAAGGAAAGCTCCAAGAGGGAGCTGCTTTCC
GACTGCCCATCTGAACGAGACCCACTGCGCCCGCTGCCTGCAGCCCTACCAGCTGCTTGTGAATAGCAAAGGCAGTGC
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TCTGGCCAGAGTCGTGAAGATCGGCTCACTGGAGTGGTACTATGAGCATGTGAAAGCCCGCTCAAGAGGTTTCGGAAGTGC
CAAGGTCATCCGGTCCCTCCACGGGCGGCTGCAGGGTGGAGCTGGGCCTGAACTGATATCTGAAGAGAGAAGTGGAGACA
GCGACCAGACAGATGAGGATGGAGAACCTGGCTCAGAGGCCAGGCCAGGCCAGCCCTTTGGCAGCAAAAAAAGCGC
CTCCTCTCCGTCCACGACTTCGACTTCGAGGGAGACTCAGATGACTCCACTCAGCCTCAAGGTCCTCCCTGCACCTGTCTCT
CAGTCCCTGAGGCCAGGGACAGCCACAGTCCCTCACAGATGAGTCTGCTCAGAGAAGGCAGCCCTCACAAGGCTGAG
GGCCTGGAGGAGGCTGATACTGGGGCCTCTGGGTGCCACTCCATCCGGAAGAGCAGCCGACCAGCATCTCACCTTCCAG
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CGCGAAACCTGTGGTGGCCACCAGTCCTAA
    
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Transaction Sequence

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DSDQTDEDGE PGSEAQAQAQ PFGSKKKRLL SVHDFDFEGD SDDSTQPQGH SLHLSSVPEA RDSPQSLTDE SCSEKAAPHK
AEGLEEADTG ASGCHSHPEE QPTSISPSRH GALAELCPPG GSHRMALGTA AALGSNVIRN EQLPLQYLAD VDTSDEESIR
AHVMASHHSK RRGRASSESQ GLGAGVRTEA DVEEEALRRK LEELTSNVSD QETSSEEEEA KDEKAEPNRD KSVGPLPAD
PEVGTAHQ TNRQEKSPQDP GDPVQYNRTT DEELSELEDR VAVTASEVQQ AESEVSDIES RIAALRAAGL TVKPSGKPRR
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