

Product datasheet for **SC320265**

Melanophilin (MLPH) (NM_024101) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Melanophilin (MLPH) (NM_024101) Human Untagged Clone
Tag:	Tag Free
Symbol:	Melanophilin
Synonyms:	SLAC2-A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_024101.5
 AGCCGCTCTGCGCCCCGCGCCCTGCTTGCCCCATTATCCAGCCTTGCCCCGGCGCCCTG
 ACCTGACGCCCTGGCCTGACGCCCTGCTTCGTGCGCTCCTTTCTCTCCAGGTGCTGGAC
 CAGGGACTGAGCGTCCCCCGGAGAGGGTCCGGTGTGACCCCGACAAGAAGCAGAAATGGG
 GAAGAACTGGATCTTCCAAGTCACTGATGAAGAGGCCAGCATGTCTTGAAGTTGT
 TCAACGAGATTTTGACCTCCGAAGGAAAGAAGAGGAACGGCTAGAGGCCTGAAGGGCAA
 GATTAAGAAGGAAAGCTCCAAGGGAGTGTCTTCCGACACTGCCCATCTGAACGAGAC
 CCACTGCGCCCGCTGCCTGCAGCCCTACCAGCTGCTTGTGAATAGCAAAAAGGCAGTGCCT
 GGAATGTGGCCTTTACCTGCAAAAAGCTGTGGCCGCGTCCACCCGGAGGAGCAGGGCTG
 GATCTGTGACCCCTGCCATCTGGCCAGAGTCGTGAAGATCGGCTCACTGGAGTGGTACTA
 TGAGCATGTGAAAGCCCGCTTCAAGAGTTCGGAAGTGCCAAAGTCATCCGGTCCCTCCA
 CGGGCGGTGCAGGGTGGAGCTGGGCCTGAACTGATATCTGAAGAGAGAAGTGGAGACAG
 CGACCAGACAGATGAGGATGGAGAACCTGGCTCAGAGGCCAGGCCAGGCCAGCCCTT
 TGGCAGCAAAAAAAGCGCCTCCTCCTCCGTCACGACTTCGACTTCGAGGGAGACTCAGA
 TGACTCCACTCAGCCTCAAGTCACTCCCTGCACCTGTCTCAGTCCCTGAGGCCAGGGA
 CAGCCCACAGTCCCTCACAGATGAGTCCTGCTCAGAGAAGGCAGCCCTACAAGCTGA
 GGGCCTGGAGGAGGCTGATACTGGGGCCTCTGGGTGCCACTCCCATCCGGAAGAGCAGCC
 GACCAGCATCTCACCTTCCAGACACGGCGCCCTGGCTGAGCTCTGCCCGCTGGAGGCTC
 CCACAGGATGGCCCTGGGGACTGCTGCTGCACTCGGGTCGAATGTCATCAGGAATGAGCA
 GCTGCCCTGCAGTACTTGGCCGATGTGGACACCTCTGATGAGGAAAGCATCCGGGCTCA
 CGTGATGGCCTCCACCATTCCAAGCGGAGAGGCCGGGCGTCTTCTGAGAGTCAGATCTT
 TGAGCTGAATAAGCATATTTAGCTGTGGAATGCCTGTGACCTACCTGGAGAACACAGT
 GTGCTCCCTTGGCCAAGGGTCTAGGTGCTGGAGTGCACAGGAGGCCGATGTAGAGGA
 GGAGGCCCTGAGGAGGAAGCTGGAGGAGCTGACCAGCAACGTCACTGACCAGGAGACCTC
 GTCGAGGAGGAGGAAGCCAAGGACGAAAAGGCAGAGCCCAACAGGGACAATCAGTTGG
 GCCTCTCCCCAGGCGGACCCGGAGGTGGGCACGGCTGCCATCAAACCAACAGACAGGA
 AAAAAGCCCCAGGACCTGGGGACCCCGTCCAGTACAACAGGACCACAGATGAGGAGCT
 GTCAGAGCTGGAGGACAGAGTGGCAGTACGGCCTCAGAAGTCCAGCAGGCAGAGAGCGA
 GGTTCAGACATTGAATCCAGGATTGCAGCCCTGAGGGCCGAGGGCTCACGGTGAAGCC
 CTCGGGAAAGCCCGGAGGAAGTCAAACCTCCCGATATTTCTCCCTCGAGTGGCTGGGAA
 ACTTGGCAAGAGACCAGAGGACCAATGCAGACCTTCAAGTGAAGCCAAGGCAATGGC
 TGTGCCCTATCTTCTGAGAAGAAAGTTCAGTAATTCCTGAAAAGTCAAGGTAAGATGA
 TGATCTTTTGTGCGAAATCAGTGTACCGAGGCTCGCTGACACAGAGAAACCCCAACGC
 GAGGAAAGGAATGGCCAGCCACACCTTCCGAAACCTGTGGTGGCCCACAGTCCCTAACG
 GGACAGGACAGAGAGACAGAGCAGCCCTGCACTGTTTTCCCTCCACCACAGCCATCCTGT
 CCCTCATTGGCTCTGTGCTTCCACTATACACAGTCACCGTCCCAATGAGAAACAAGAAG
 GAGCACCTCCACATGGACTCCACCTGCAAGTGGACAGCGACATTCACTCCTGCACTGC
 TCACCTGGGTTTACTGATGACTCCTGGCTGCCACCACATCCTCTCTGATCTGTGAGAAAC
 AGCTAAGCTGCTGTGACTTCCCTTTAGGACAATGTTGTGTAATCTTTGAAGACACACC
 GAAGACCTTTATACTGTGATCTTTTACCCCTTTCACTCTTGGCTTCTTATGTTGCTTTC
 ATGAATGGAATGGAAAAAGATGACTCAGTTAAGGCACCAAAAAAAAAAAAAAAAAAAAAA
 AAA

Restriction Sites: Please inquire

ACCN: NM_024101

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_024101.5 , NP_077006.1
RefSeq Size:	3771 bp
RefSeq ORF:	1803 bp
Locus ID:	79083
UniProt ID:	Q9BV36
Cytogenetics:	2q37.3
Gene Summary:	<p>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 encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>