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Product datasheet for TR303240

Melanophilin (MLPH) Human shRNA Plasmid Kit (Locus ID 79083)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Melanophilin (MLPH) Human shRNA Plasmid Kit (Locus ID 79083)
Locus ID:	79083
Synonyms:	SLAC2-A
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	MLPH - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 79083). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001042467, NM_001281473, NM_001281474, NM_024101, NR_104019, NM_024101.1, NM_024101.2, NM_024101.3, NM_024101.4, NM_024101.5, NM_024101.6, NM_001042467.1, NM_001042467.2, NM_001281474.1, NM_001281473.1, BC001653, BC001653.2, BC051269, BC051269.1, BM272410, BM992819, NM_001281473.2, NM_001042467.3, NM_024101.7, NM_001281474.2
UniProt ID:	Q9BV36
Summary:	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]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

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Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).