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Product datasheet for SC119882

LIS1 (PAFAH1B1) (NM_000430) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIS1 (PAFAH1B1) (NM_000430) Human Untagged Clone
Tag:	Tag Free
Symbol:	LIS1
Synonyms:	LIS1; LIS2; MDCR; MDS; NudF; PAFAH
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000430, the custom clone sequence may differ by one or more nucleotides

ATGGTGCTGTCCCAGAGACAACGAGATGAACTAAATCGAGCTATAGCAGATTATCTTCGTTCAAATGGCT
ATGAAGAGGCATATTCAGTTTTTAAAAAGGAAGCTGAATTAGATGTGAATGAAGAATTAGATAAAAAGTA
TGCTGGTCTTTTGGAAAAAAAAATGGACATCTGTTATTAGATTACAAAAGAAGGTTATGGAATTAGAATCA
AAGCTAAATGAAGCAAAAGAAGAATTTACGTCAGGTGGACCTCTTGGTCAGAAACGAGACCCAAAAGAAT
GGATTCCCCGTCCGCCAGAAAAATATGCATTGAGTGGTCACAGGAGTCCAGTCACTCGAGTCATTTTCCA
TCCTGTGTTCAGTGTTATGGTCTCTGCTTCAGAGGATGCTACAATTAAGGTGTGGGATTATGAGACTGGA
GATTTTGAACGAACTCTTAAAGGACATACAGACTCTGTACAGGACATTTCATTCGACCACAGCGGCAAGC
TTCTGGCTTCCTGTTCTGCAGATATGACCATTAAACTATGGGATTTTCAGGGCTTTGAATGCATCAGAAC
CATGCACGGCCATGACCACAATGTTTCTTCAGTAGCCATCATGCCCAATGGAGATCATATAGTGTCTGCC
TCAAGGGATAAAACTATAAAAATGTGGGAAGTGCAAACTGGCTACTGTGTGAAGACATTCACAGGACACA
GAGAATGGGTACGTATGGTACGGCCAAATCAAGATGGCACTCTGATAGCCAGCTGTTCCAATGACCAGAC
TGTGCGTGTATGGGTCGTAGCAACAAAGGAATGCAAGGCTGAGCTCCGAGAGCATGAGCATGTGGTAGAA
TGCATTTCCTGGGCTCCAGAAAGCTCATATTCCTCCATCTCTGAAGCAACAGGATCTGAGACTAAAAAAA
GTGGTAAACCTGGGCCATTCTTGCTGTCTGGATCCAGAGACAAGACTATTAAGATGTGGGATGTCAGTAC
TGGCATGTGCCTTATGACCCTCGTGGGTCATGATAACTGGGTACGTGGAGTTCTGTTCCATTCTGGGGGG
AAGTTTATTTTGAGTTGTGCTGATGACAAGACCCTACGCGTATGGGATTACAAGAACAAGCGATGCATGA
AGACCCTCAATGCGCATGAACACTTTGTTACCTCCTTGGATTTCCACAAGACGGCACCCTATGTCGTCAC
TGGCAGCGTAGATCAAACAGTAAAAGTGTGGGAGTGCCGTTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000430 unedited
NCCAACACACCCCCCCCCCCCCCCACCCCCCCCGGTTCGTTTTTGNATACGACTCCTATA
GGCGGCCGCGNATATCGCACGAGGGCGGCGGCGGNATCCGGCGGCCGGGAGAGCGAGTGA
GCGAGCGGAGGAGCAGCGACACGGGAGTCTAGGGAGCGAGAAGGAGAAGGAGGGGAGCGC
TCGGGCGCGAGCGAGAGAAACCGCGAGCGCCGAGCTTGGACTCGAGCCCCGGAACGGCTG
AGGAGCCCGCCCGCTCCCCTCCCCTCCCCCTCCCCGGGCCCGGGCCCAGCGCGCCATCCT
CCCCCCTCCTTCCCTCCCTCCCTCCTTCCTCCCTCCCCTCTCCCTCCCCCTCCCCCGCCG
GTGGATGGGAGTGAAGGACGGAAGAGGCCCTGCGGAGGCGGCGGTGCAGCGCTCCGGTGG
AATGAATCTTACTTGTTGAATATCTTCTGGTTACTAGTTGGATTCATTTGTGAAAGAATC
ATTTTCCCCTGTGTGGAAGACACTTAGTGGCATATTTAAATTATAAGTCCACGGATCAAA
AAGCTTTTTGATTTCCCAAAGGAGGGACATACCACTATATCAGATAAGCTTGACATTACA
GCCAAGATGGTGCTGTCCCAGAGACAACGAGATGAACTAAATCGAGCTATAGCAGATTAT
CTTCGTTCAAATGGCTATGAAGAGGCATATTCAGTTTTTAAAAAGGAAGCTGAATTAGAT
GTGAATGAAGCATTAGATAANAAGTTTGCTGGTCTTTTGGAAAAAAATGGACATCTGTTA
TTAGACTACAAAAGAGGGTATTGGATTAGAATTCAAGCTAATTGAAGCAAAAGAAGAATT
TACCGTCAGTTGTCCTCTTTGGTCAGAAACCACACCCAAAGAATGGATTCCCCGTCCGCC
AAAAAATATGCATTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000430 unedited
CCTGAAGGGTCAATATTTCCTCTCTTTCGGGTCTCAATGGGGATAACCATGGTATCATCA
GAGTGCATCCAGAGGAAAATAGGAGGAGGGGCCGAAGGAGACACAATCAACGGCACTCCC
ACACTTTTACTGTTTGATCTACGCTGCCAGTGACGACATAGGGTGCCGTCTTGTGGAAAT
CCAAGGAGGTAACAAAGTGTTCATGCGCATTGAGGGTCTTCATGCATCGCTTGTTCTTGT
AATCCCATACGCGTAGGGTCTTGTCATCAGCACAACTCAAAATAAACTTCCCCCCAGAAT
GGAACAGAACTCCACGTACCCAGTTATCATGACCCACGAGGGTCATAAGGCACATGCCAG
TACTGACATCCCACATCTTAATAGTCTTGTCTCTGGATCCAGACAGCAAGAATGGCCCAG
GTTTACCACTTTTTTTAGTCTCAGATCCTGTTGCTTCAGAGATGGAGGAATATGAGCTTT
CTGGAGCCCAGGAAATGCATTCTACCACATGCTCATGCTCTCGGAGCTCAGCCTTGCATT
CCTTTGTTGCTACGACCCATACACGCACAGTCTGGTCATTGGAACAGCTGGCTATCAGAG
TGCCATCTTGATTTGGCCGTACCATACGTACCCATTCTCTGTGTCCTGTGAATGTCTTCA
CACAGTAGCCAGTTTGCACTTCCCACATTTTTATAGTTTTATCCCTTGAGGCAGACACTA
TATGATCTCCATTGGGCATGATGGCTACTGAAGGAACATTGTGGTCATGGCCGTGCATGG
TTCTGATGCATTCAAAGCCCCTGAAAATCCATAGTTNAATGGTCATATCTGCAGAACATG
AAGCCAGAATCTTGCCGCTGTGGTCGAATGAATGTCCTGTACAGAGTCTGTATGTCCTTT
TAGATTCGTTCAAATNTGCAGTCTCATAANCCACACCTTA

Restriction Sites: NotI-NotI

ACCN: NM_000430

Insert Size: 2000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

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:
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_000430.2, NP_000421.1

RefSeq Size: 5581 bp

RefSeq ORF: 1233 bp

Locus ID: 5048

UniProt ID: P43034

Cytogenetics: 17p13.3

Domains: WD40, LisH

Protein Pathways: Ether lipid metabolism, Metabolic pathways

Gene Summary: This locus was identified as encoding a gene that when mutated or lost caused the lissencephaly associated with Miller-Dieker lissencephaly syndrome. This gene encodes the non-catalytic alpha subunit of the intracellular Ib isoform of platelet-activating factor acteylhydrolase, a heterotrimeric enzyme that specifically catalyzes the removal of the acetyl group at the SN-2 position of platelet-activating factor (identified as 1-O-alkyl-2-acetyl-sn-glyceryl-3-phosphorylcholine). Two other isoforms of intracellular platelet-activating factor acetylhydrolase exist: one composed of multiple subunits, the other, a single subunit. In addition, a single-subunit isoform of this enzyme is found in serum. [provided by RefSeq, Apr 2009]