

Product datasheet for **SC119535**

MPS1 (RPS27) (NM_001030) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPS1 (RPS27) (NM_001030) Human Untagged Clone
Tag:	Tag Free
Symbol:	MPS1
Synonyms:	DBA17; MPS-1; MPS1; S27
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119535 sequence for NM_001030 edited (data generated by NextGen Sequencing)

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ATGCCTCTCGCAAAGGATCTCCTTCATCCCTCTCCAGAAGAGGAGAAGAGGAAACACAAG
AAGAAACGCCTGGTGCAGAGCCCAATTCTACTTCATGGATGTGAAATGCCCAGGATGC
TATAAAATCACACGGTCTTTAGCCATGCACAAACGGTAGTTTTGTGTGTGGCTGCTCC
ACTGTCCTCTGCCAGCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTCTTCAGG
AGGAAGCAGCACTAA
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Clone variation with respect to NM_001030.4

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001030 unedited TTTTGTAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGTACGCACACGAGA ACATGCCTCTCGCAAAGGATCTCCTTCATCCCTCTCCAGAAGAGGAGAAGAGGAAACACA AGAAGAAACGCCTGGTGCAGAGCCCAATTCTACTTCATGGATGTGAAATGCCCAGGAT GCTATAAAATCACACGGTCTTTAGCCATGCACAAACGGTAGTTTTGTGTGTGGCTGCT CCACTGTCCTCTGCCAGCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTCTTC GGAGGAAGCAGCACTAAAAGCACTCTGAGTCAAGATGAGTGGGAAACCATCTCAATAAAC ACATTTTGGATAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGGCGCCGCGTCAATAGC TGTTTCCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCAAGTGCCTCTCCTGGC CCTGGAAGTTGCCACTCCAGTGCCACCAAGCCTTGTCTAATAAAATTAAGTTGCATCAT TTTGTCTGACTAGGTGTCCTTCTATAATATTATGGGGTGAAGGGGGTGGTATGGGACAA GGGGGCAAGTTGGGAAGACAACCTGTAGGGCTGCGGGGTCTATTGGGAACCAAGCTGGA GTGCAAGTGGCACAATCTGGCTCACTGCAATCTCCGCCTCCTGGGTTCAAGCGATTCTCC TGCTCAGCCTNCCCAGTTGGTGGGGATTTAGGCATGCATGACCAGGCTCAGCTATTT TTTGTTTTTTGGAGAGAACCAGGGTTTACCATATGGCCAGGCTGGTCTCCACTCCTA TCCTCAGTGATCTACCCACCTGGCCTCCAATGTTGGGATTACAGCCTG
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001030 unedited CGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTATCCAAAATGTGTTTATTG AGATGGTTTCCCCTCATCTTGACTCAGAGTGCTTTTAGTGCTGCTTCTCCTGAAGGAA CATCCTTCTGTAAGCCTTGCTTTTCTCCTGTAGGCTGGCAGAGGACAGTGGAGCAGCCA ACACACAAAACCTACCGTTTGTGCATGGCTAAAGACCGTGGTGATTTTATAGCATCCTGGG CATTTCACATCCATGAAGTAGGAATTGGGGCTCTGCACCAGGCGTTTCTTCTTGTTTC CTCTTCTCCTCTTCTGGAGAGGATGAAGGAGATCCTTTGCGAGAGGCATGTTCTCGTGT GCGTACCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCGACG GTTCACTAAACGAGCTCTGCTTATATAGACCTCCACCGTACACGCCTACCGCCCATTTG CGTCAACGGGGCGGGTTATTACGACATTTTGGAAAGTCCCGTTGATTTTGGTGCACAAA CAAACTCCCATTGACGTCAATGGGGTGGAGACTTGAAATCCCCGTGAGTCAAACCGCTA TCCACGCCATTGGTGTACTGCCAAAACCGCATTACCATGGTTATAGCGATGACTAATAC CTACATGCTCTGCCAAAGAAGAAAGTCCCGGAAGGGCATGTACTGGGCATAATCCCGGGC GGCCCTTACCAGAAATTCGTCAATAGGGGCCGACTTGCCTAGATCCACTAGAGTACCGC CACGGGCCAGTTACCGCAAACCCCCCATCGCCAATGAAAAGCCCTTTGGCCGTCCTT GGGAACTCCTCATTTTGCNCATGGCCGGGGTCTTGGGCGNACCCCGGGCCCTTCCG ATAGTTTTACCCACCTCTATAGCCTAAACCAAGCCCTATGT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001030
Insert Size:	400 bp
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).
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_001030.3 , NP_001021.1
RefSeq Size:	372 bp
RefSeq ORF:	255 bp
Locus ID:	6232
UniProt ID:	P42677
Cytogenetics:	1q21.3
Domains:	Ribosomal_S27e
Protein Pathways:	Ribosome

Gene Summary:

Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of four RNA species and approximately 80 structurally distinct proteins. This gene encodes a member of the S27e family of ribosomal proteins and component of the 40S subunit. The encoded protein contains a C4-type zinc finger domain that can bind to zinc and may bind to nucleic acid. Mutations in this gene have been identified in numerous melanoma patients and in at least one patient with Diamond-Blackfan anemia (DBA). Elevated expression of this gene has been observed in various human cancers. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Jul 2018]

Transcript Variant: This variant (1) represents the shortest transcript and encodes the longer isoform (1).