

Product datasheet for **SC118951**

DHPS (NM_001930) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHPS (NM_001930) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHPS
Synonyms:	DHS; DS; MIG13; NEDSSWI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118951 sequence for NM_001930 edited (data generated by NextGen Sequencing)

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ATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGTGGCCCGCTGCTAAAGCAC
AGCTCGACGTTGCCGCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTG
AATTACCGCGCACTGCTGGAGGCCCTTCGGCACCCCGGCTTCAAAGCAACCAACTTCGGG
CGCGCTGTACAGCAAGTCAATGCCATGATCGAGAAGAAGCTGGAACCACTGTACAGGAT
GAAGACCAGCACGCGGACCTGACCCAGAGCCGCCCACTTACCAGCTGCACCAATTTTC
CTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTGCTACCTTGTG
CAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATC
AAGTGCCTGGCGCCACATACTTGGCGAGTTTAGCCTCAGGGGAAGGAGCTCCGGGAG
AACGGGATCAATAGGATCGGAAACCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAG
GACTGGCTGATGCCATTCTGGACCAGATGGTGTGGAGCAGAACACAGAGGGTGTAAAG
TGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGAGTCCGTG
TATTACTGGGCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCG
CTGGGCGACATGATCTTCTTCCATTCTACAAGAACCAGGCGCTGGTCTGGACATCGTT
GAGGACCTGAGGCTCATCAACACACAGGCCATCTTGGCAAGTGCCTGGGATGATCATT
CTGGGCGGGGGCGTGGTCAAGCACCACATTGCCAATGCCAACCTCATGCGGAACGGGGCC
GACTACGCTGTTTACATCAACACAGCCAGGAGTTTGATGGCTCTGACTCAGGTGCCCGA
CCAGACGAGGCTGTCTCCTGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTAT
GCTGACGCCTCCCTGGTCTTCCCCTGCTTGTGGCTGAAACCTTTGCCCGAAGATGGAT
GCCTTCATGCATGAGAAGAACGAGGACTGA
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Clone variation with respect to NM_001930.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001930 unedited GCAAAAATTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGAGACGCGCGC GTCGGGGTTTAAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCTAGGGGCAGCTTTGACTCG AGAGCCGGCTATAGGCGCATGGAAGTTCCCTGGAACGGGAGGCCAGCGGGGGCGCTG GCCGCCGTGCTAAAGCACAGCTCGACGTTGCCGCCGAAAGCACCCAGGTCGGGGCTAC GACTTCAACCGCGGTGTGAATTACCGCGCACTGCTGGAGGCCTTCGGCACCCCGGCTTC CAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGCCATGATCGAGAAGAAGCTG GAACCACTGTACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCCACTT ACCAGTGCACCATTTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAG ACCATTGCTACCTTGTGCAGCACAAACATGGTGGACGATTGGTGACCACAGCTGGCGGC GTGGAGGAAGACCTCATCAAGTGCCTGGCGCCACATACTGGGCGAGTTTAGCCTCAGG GGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGAAACCCTGGCTGGTGCCTCAATGA GAATTACTGCCAGTTTGGAGACTGGCTGATGCCATTCTGGACCAGATGGTGATGGAGCA GAACACAGAGGGTAAAGTGGACGCCTTCTAAGATGATGCCGGCTGGCAAGGAGATC AACACCCAGAGTCGTGATTACTGGGCCCAGAGGACCACATCCCTGTGTTAGTCCCG CACTTACAGACAGCTCGCTGGGCGACATGAACTTCTTCCATTCTACCAGAACCCNGGGC GTTCCTGGACATCGTTGAGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001930 unedited GGGGGGATGGCCACNCNANNNTNTTCTTACACAAGAATTTGGCTTACACTACCANCTTT ATCTANACCGTAGCTGACCAAAAAGTAGGGAGGGGCTGGGTCTGCAAATTAATAATAGA AGAGGGGGTAAGACCTTCTGGGACCGCAGCCGCTCAGTCCTCGTTCTTCTCATGCATGA AGGCATCCATCTTCTGGGCAAAGTTTCAGCCACAAGCAGGGGAAGACCAGGGAGGCGT CAGCATAGACCTTGACGGGCTGTGCATCCACCCGATCTTGCCCCAGGAGACAGCCTCGT CTGGTCGGGCACCTGAGTCAGAGCCATCAAACCTCTGGGCTGTGTTGATGTAAACAGCGT AGTCGGCCCCGTCCGCATGAGGTTGGCATTGGCAATGTGGTGGCTTGACCACGCCCCCGC CCAGAATGATCATCCCAGTGCACCTGGCAAAGATGGCCTGTGTGTTGATGAGCCTCAGGT CCTCAACGATGTCCAGGACCAGGCCCGGTTCTTGTAGGAATGGAAGAAGATCATGTCGC CCAGCGAGCCGTCTGTAAGTGGGGACTAAACACAGGGATGTGGTTCTTCTGGGCCAGT AATACACGGACTCTGGTGTGTTGATCTCCTTGCCAGCCGGGCGATCATTTAGAAGCGG TCCACTTTACACCCTCTGTGTTCTGCTCCATCACCATCTGGTCCAGAATGGGCATCAGCC AGTCCTCAAACCTGCAGTAATTCTCATTGGGCACCAGCANGTTTTCCGATCCTATTGATCC CGTTCTCCGNGAGCTNCTTTCCCCCTGAGCTAAACTCGCCCAAGTATGTGGGGCGCCAGG CACTTGATGAGGTCTTNTNACGCCGNCAGCTTGGGTACCATTACGTCCACCCATGTT GTGCTGCACAAGGTANCGAATGGTCTCACGGATGCCCTGACTGAT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001930
Insert Size:	1430 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:

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_001930.2](#), [NP_001921.1](#)

RefSeq Size: 1351 bp

RefSeq ORF: 1110 bp

Locus ID: 1725

UniProt ID: [P49366](#)

Cytogenetics: 19p13.13

Domains: DS

Gene Summary: This gene encodes a protein that is required for the formation of hypusine, a unique amino acid formed by the posttranslational modification of only one protein, eukaryotic translation initiation factor 5A. The encoded protein catalyzes the first step in hypusine formation by transferring the butylamine moiety of spermidine to a specific lysine residue of the eukaryotic translation initiation factor 5A precursor, forming an intermediate deoxyhypusine residue. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2011]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).