

## Product datasheet for SC115255

### DHPS (NM\_013406) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DHPS (NM_013406) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHPS
Synonyms:	DHS; DS; MIG13; NEDSSWI
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_013406, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCTAAAGCACAGCTCGACGT
TGCCGCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCGCGCACTGCTGGA
GGCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGCCATGATC
GAGAAGAAGCTGGAACCACTGTACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCCAC
TTACCAGCTGCACCATTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCG
CTACCTTGTGCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGCGTGGAGGAAGACCTCATC
AAGTGCCTGGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGAAGGAGCTCCGGGAGAACGGGATCA
ATAGGATCGGAAACCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCATTCT
GGACCAGATGGTGTGGAGCAGAACACAGAGGGTGTAAAGTGGACGCCTTCTAAGATGATCGCCCGGCTG
GGCAAGGAGATCAACAACCCAGAGTCCGTGTATTACTGGGCCAGAGAACCACATCCCTGTGTTTAGTC
CCGCACTTACAGACGGCTCGCTGGGCGACATGATCTTCTCCATTCTACAAGAACCCGGGCGCTGGTCTCT
GGACATCGTTGAGGCCAGGAGTTTGTGGCTCTGACTCAGGTGCCCGACCAGACGAGGCTGTCTCCTGG
GGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGCCTCCCTGGTCTTCCCCTGCTTG
TGCTGAAACCTTGGCCAGAAGATGGATGCCTTCATGCATGAGAAGAACGAGGACTGA
```



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_013406 unedited GTGATTTTGAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGGTCGGGGTT TAACGCGTTTTCTGGGCCCGCTAAGCCCGGCCTAGGGGCAGCTTTGACTCGAGAGCCGGC TCTAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCCAGCGGGGGCGCTGGCCCGCGTG CTAAGCACAGCTCGACGTTGCCGCCGAAAGCACCCAGGTCGGGGCTACGACTTCAAC CGCGGTGTGAATTACCGCGCACTGCTGGAGGCCCTTCGGCACCCCGGCTTCCAAGCAACC AACTTCGGGCGCGCTGTACAGCAAGTCAATGCCATGATCGAGAAGAAGCTGGAACCACTG TCACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCGCCCACTTACCAGCTGC ACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCGC TACCTTGTGCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGCGTGGAGGAA GACCTCATCAAGTGCCTGGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAG CTCCGGGAGAACGGGATCAATAGGATCGGAAACCTGCTGGTGCCCAATGAGAATTACTGC AAGTTTGAGGACTGGCTGATGCCATTCTGGACCAGATGGTGATGGAGCAGACACAGAGG GTGTAAGTGGACGCTTCTAAGATGATCGCCCGCTGGCCAGGAGATCACCCAGAGT CCGTGTATTACTGGCCAGAGACCAATTCTGTGGTTTAGTCCGCCTTACGACGGCTCGC TGCGGACATGATCTTCTCATTCTCAGGACCGGGCCTGGTCTGGAATTATN
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_013406 unedited GGTACTCTATGNNACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTACTTCAGATACCATCTTATTCTAGAGACGTAGCTGACCAAAAATAGGGGAGG GGCTGGGCTGCAAAATTAATAAAATAAAGAGGGGGTAAGACCTTCTGGGACCGCAGCCG CTCAGTCTCGTTCTTCTCATGCATGAAGGCATCCATCTTCTGGGCAAAGTTTTAGCCA CAAGCAGGGGGAAGACCAGGGAGGCGTCAGCATAGACCTTGACGGGCTGTGCATCCACC GGATCTTGCCCCAGGAGACAGCCTCGTCTGGTGGGACCTGAGTCAGAGCCATCAAAC CCTGGGCTGTGTTGATGTAACAGCGTAGTCGGCCCGTTCCGCATGAGGTTGGCATTGG CAATGTGGTGCTTGACCACGCCCCCGCCAGAATGATCATCCCAGTGCACTTGGCAAAGA TGGCCTGTGTGTTGATGAGCCTCAGGTCCTCAACGATGTCCAGGACCAGGCCCGGTTCT TGTAGGAATGGAAGAAGATCATGTCCGCCAGGAGCCGCTGTAAAGTGGGGACTAAACA CAGGGATGTGGTCTTCTGGGCCAGTAATACACGGACTCTGGGTTGTTGATCTCCTTGC CCAGCCGGGCGATCATCTTAGAAGGCGTCCACTTACACCCTCTGTGTTCTGCTCCATCA CCATCTGGTCCAGAATGGGCATCAGCCAGTCTCAAACCTTGCAAGTAATTCTCATTGGGCA CCAGCAGGTTTCCGATCCTATTGATCCCGTTCTCCCGGACTCTTCCCCCTGAGCTAAAC TCGCCAAGTTGTGGGCGCCAGGCCCTTGATGAGGTCTTCTNACGCGCCAGCTGTGGTCA CAATACGTCACCATGTTG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_013406
<b>Insert Size:</b>	1430 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_013406.1](#), [NP\\_037538.1](#)

**RefSeq Size:** 1210 bp

**RefSeq ORF:** 969 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 (2) lacks an exon and uses an alternate splice site in the 3' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (b) is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.