

## Product datasheet for **SC126747**

### DHPS (NM\_013407) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DHPS (NM_013407) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHPS
Synonyms:	DHS; MIG13
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_013407, the custom clone sequence may differ by one or more nucleotides

```
ATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCTAAAGCACAGCTCGACGT
TGCCGCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCGCGCACTGCTGGA
GGCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGCCATGATC
GAGAAGAAGCTGGAACCACTGTACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCCAC
TTACCAGCTGCACCATTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCG
CTACCTTGTGCAGCACAACATGGTGGACGATTGGTGACCACAGCTGGCGCGTGGAGGAAGACCTCATC
AAGTGCCTGGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGAAGGAGCTCCGGGAGAACGGGATCA
ATAGGATCGGAAACCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGGAGACTGGCTGATGCCATTCT
GGACCAGATGGTGTGGAGCAGAACACAGAGGGTGTAAAGTGGACGCCTTCTAAGATGATCGCCCGGCTG
GGCAAGGAGATCAACAACCCAGAGTCCGTGTATTACTGGGCCAGAGAACCACATCCCTGTGTTTATGTC
CCGCACTTACAGACGGCTCGCTGGGCGACATGATCTTCTCCATTCTACAAGAACCCGGGCGTGGTCTCT
GGACATCGTTGAGGGTGCCCGACAGAGGCTGTCTCTGGGGCAAGATCCGGGTGGATGCACAGCCC
GTCAAGGTCTATGCTGACGCCTCCCTGGTCTTCCCCTGCTTGTGGCTGAAACCTTTGCCAGAAGATGG
ATGCCTTCATGCATGAGAAGAACGAGGACTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_013407 unedited  
 GGCCGCGAAATTCGCACGAGGCTCTTGCGGAGACGCGCGCTCGGGGTTAACGCGTTTC  
 TGGGCCGCGTAAGCCCGGCCTAGGGCAGCTTTGACTCGAGAGCCGGCTATAGGCGCAT  
 GGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCGTAAAGCACAG  
 CTCGACGTTGCCGCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAA  
 TTACCGCGCACTGCTGGAGGCCCTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCG  
 CGCTGTACAGCAAGTCAATGCCATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGA  
 AGACCAGCACGCGGACCTGACCCAGAGCCGCGCCCACTTACCAGCTGCACCAATTTTCCT  
 GGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCGCTACCTGTGCA  
 GCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAA  
 GTGCCCTGGCGCCACATACTTNGGGCGAGTTTAGCCTCAGGGGGGAAGGAGCTCCGGGAG  
 AACGGGATCAATAGGATCGGGAACCTGGCTGGTGCCCAATGAGAATTACTGGCAGTTTTG  
 AGGACTGGCTGATGCCATTCTGGACCAGATGGTATGGAGCAGACACAGNAGGTGTTAA  
 AGTGGACGCTCTTAGATGATCGCCCCGCTGGCCAAGAGATCACACCCAGAGTCCGGGTA  
 TTAAGTGGGCCAGAGACCACTTCTGGGTTTAGTCCGCTTACGACGGNTTGTGGCAAT  
 TGATCTTTCCATCA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_013407 unedited  
 ACCGGCGCCGCAATCTAGAGTCGAGNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTGGGACTTCAAATACCATCTTATTTTAAAAACCTAACTGACCAAAAAATAAGGGAGGG  
 GCTGGGTCTGCAAATTAATAAATAAAAAAGGGGGAAAAACTTTCTGGGACCCCAACCGC  
 TCAATCCTCGTTCTTTTCATGCCTGAAGGCATCCATTTTTGGGCAAAGTTTCAACCAC  
 AAGCAGGGGAAAAACCAAGGAGGCGTCAACATAAACCTTGACGGGCTGTGCATCCACCCG  
 GATCTTGCCCAAGAAACAACCTCGTTTGGTCGGGCACCTGAGTCAAAACCTCAAACCTC  
 CTGGGCTGGGTTGATGTAACAACGTAATCGGCCCCCTTCCCCATGAGGGTGGCATTGGC  
 AATGTGGGGCTTGACCACCCCCCGCCCAAAATGATCATCCCAATGCACTTGGCAAAAAAT  
 GGCTGTGTGTTGATGAACCTCAAGGCCTCAACGATGTCCAAGACCAAGCCCGGTTCTT  
 GTAGGAATGAAAAAGATCATGTGCCCCAACGAGCCGTCTGTAAGTGGGGACTAAACAC  
 AGGGATGTGGGTCTTCTGGGCCAATAATACACGGACTCTGGGTGGTGTCTCCTTGCC  
 CAACCGGGCGATCATCTTAAAAGCGTCCACTTACACCCTCTGTGGTCTGGTCCATCAC  
 CATACTGGCCAAAATGGGGATTAACCCGTTCTCAAACCTGACAGTAACTTATTGGGCACC  
 ACCAAGTTTTCAAACCTATGATCCCGTCTCCCGGACTCCTTTCCCTGAAGCTAACTCGC  
 CCAATTTGGGGCGCCAGCACTGATGAAGCTTCTCCCCCCCCACTGTGGGACCAATAC  
 CTCCACATTTGGGCTCCAAGGACCAAAGGGCTCCCGGATCCCTAACTGTGGAGGTGGAA  
 GTATATCCAAAAATGTGCACCTTGAATGGCCGCGGCTTGGGCTAGCCCCCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_013407

**Insert Size:**

1260 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\\_013407.1](#), [NP\\_037539.1](#)

**RefSeq Size:** 1183 bp

**RefSeq ORF:** 942 bp

**Locus ID:** 1725

**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 splice variant (3) lacks exon 7 and includes alternative exon 8a.