

Product datasheet for **RG232489**

DHPS (NM_001206974) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHPS (NM_001206974) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DHPS
Synonyms:	DHS; DS; MIG13; NEDSSWI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232489 representing NM_001206974 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTATAATCCCAGCATTTTGGGAAGCCGAGGCGGGTGGATCAAGAGAAGAGGAGTTCGAGACAAGCC
TGGCCAACATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGAAGACCAGCACGCGGACCTGACCCA
GAGCCGCCGCCACTTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATC
CGTGAGACCATTGCTACCTTGTGCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGG
AGGAAGACCTCATCAAGTGCCTGGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGAAGGAGCTCCG
GGAGAACGGGATCAATAGGATCGGAAACCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGG
CTGATGCCATTCTGGACCAGATGGTGTGGAGCAGAACACAGAGGGTGTAAAGTGGACGCCCTTCTAAGA
TGATCGCCCGGCTGGCAAGGAGATCAACAACCCAGAGTCCGTGTATTACTGGGCCAGAAGAACCACAT
CCCTGTGTTTGTAGTCCCGCACTTACAGACGGCTCGCTGGGCGACATGATCTTCTCCATTCTACAAGAAC
CCGGGCTGGTCTGGACATCGTTGAGGACCTGAGGCTCATCAACACACAGGCCATCTTTGCCAAGTGCA
CTGGGATGATCATTCTGGGCGGGGGCTGGTCAAGCACCACATTGCCAATGCCAACCTCATGCGGAACGG
GGCCGACTACGCTGTTTACATCAACACAGCCCAGGAGTTTGGTGGCTCTGACTCAGGTGCCCGACCAGAC
GAGGCTGTCTCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGCCTCCCTGG
TCTTCCCCTGCTTGTGGCTGAAACCTTGGCCAGAAGATGGATGCCTTCATGCATGAGAAGAACGAGGA
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232489 representing NM_001206974
Red=Cloning site Green=Tags(s)

MPIIPAFWEAEAGGSREEEFETSLANMIEKKLEPLSQDEDQHADLTQSRRLTSCITFLGYTNSLISSGI
 RETIRYL VQHNMYDVLVTTAGGVEEDLIKCLAPTYLGEFSLRGKELRENGINRIGNLLVPNENYCKFEDW
 LMPILDQMVMEQNTGKWKTPSKMIARLGKEINNPEVYVYWAQKNHIPVFPALTDGSLGDMIFFHSYKN
 PGLVLDIVEDLRINTQAIFAKCTGMIILGGVVKHHIANANLMRNGADYAVYINTAQEFDGSDSGARP
 EAVSWGKIRVDAQPVKYYADASLVFPLLVAETFAQKMDAFMHEKNED

TRTRPLE - GFP Tag - V

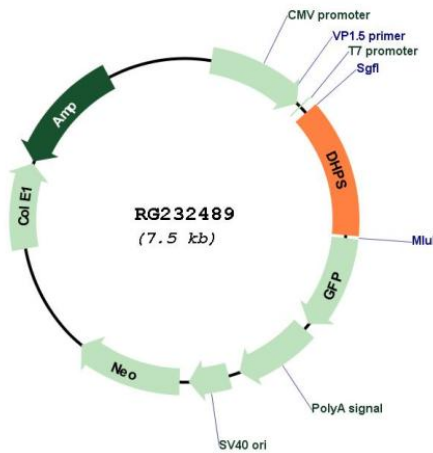
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001206974

ORF Size: 981 bp

OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001206974.1 , NP_001193903.1
RefSeq Size:	1212 bp
RefSeq ORF:	984 bp
Locus ID:	1725
UniProt ID:	P49366
Cytogenetics:	19p13.13
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]