

Product datasheet for **RG204235**

DHPS (NM_001930) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHPS (NM_001930) 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:	>RG204235 representing NM_001930 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCCGCTGCTAAAGCACAGCTCGACGT
TGCCGCCCGAAAGCACCCAGGTCGGGGCTACGACTTCAACCGCGGTGTGAATTACCGCGCACTGCTGGA
GGCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGCCATGATC
GAGAAGAAGCTGGAACCACTGTACAGGATGAAGACCAGCACGGGACCTGACCCAGAGCCGCCGCCAC
TTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCG
CTACCTTGTGCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGCGTGGAGGAAGACCTCATC
AAGTGCCTGGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCA
ATAGGATCGGAAACCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGGAGACTGGCTGATGCCATTCT
GGACCAGATGGTGTGGAGCAGAACACAGAGGGTGTAAAGTGGACGCCTTCTAAGATGATCGCCCGGCTG
GGCAAGGAGATCAACAACCCAGAGTCCGTGTATTACTGGGCCAGAAGAACCACATCCCTGTGTTTATGC
CCGCACTTACAGACGGCTCGCTGGGCGACATGATCTTCTCCATTCTACAAGAACCAGGCGCTGGTCT
GGACATCGTTGAGGACCTGAGGCTCATCAACACACAGGCCATCTTTGCCAAGTGCCTGGGATGATCATT
CTGGGCGGGGGCGTGGTCAAGCACCACATTGCCAATGCCAACCTCATGCGGAACGGGGCCGACTACGCTG
TTTACATCAACACAGCCAGGAGTTTGTGGCTCTGACTCAGGTGCCCGACCAGACGAGGCTGTCTCCTG
GGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGCCTCCCTGGTCTTCCCCCTGCT
GTGGCTGAAACCTTTGCCAGAAGATGGATGCCTCATGCATGAGAAGAATGAGGAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204235 representing NM_001930
 Red=Cloning site Green=Tags(s)

MEGLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNRYRALLEAFGTTGFQATNFGRAVQQVNAMI
 EKKLEPLSQDEDQHADLTQSRRLTSCIFLGYTSNLISSGIRETIRYL VQHNMVDLVTAGGVEEDLI
 KCLAPTYLGEFSLRGKELRENGINRIGNLLVPENYCKFEDWLMPI LDQMVM EQNTEGVKWTSPKMIARL
 GKEINNPE SVYYWAQKNH IPV FSPAL TDGSLGDMIFFHSYKNPGLVLDI VEDLRLINTQAI FAKCTGMII
 LGGGVVKKHIIANANLMRNGADYAVYINTAQEFDGSDSGARPDEAVSWGKIRVDAQPVKYYADASLVFPLL
 VAETFAQKMDAFMHEKNED

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001930

ORF Size: 1107 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:

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

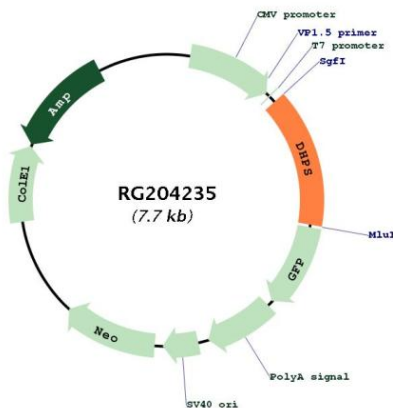
UniProt ID: [P49366](#)

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]

Product images:



Circular map for RG204235