

Product datasheet for **MG214016**

Dhps (NM_001039514) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dhps (NM_001039514) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dhps
Synonyms: Dhs
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG214016 representing NM_001039514
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGAAGGGACCCGCCAGGGCGGCGCCCTCCTCGGCGCTGGCCCGTCTCAAGCACAGCTCAGCGT
 TGCCGCCCGAGAGCGCCAGGTCCAAGGCTACGACTTCAACCGCGGCGTAGATTACCATGCGTTCTGGA
 CGCCTACCGCACCACCGGCTTCCAGGCTACCAACTTCGGGCGCGGTCAGCAAGTCAACGCCATGATT
 GAGAAAAAAGTGGAGCCACTGGCTGTAGATGAAGATCATCACGCAGACCTGACTCAGAGCCGCCGCCAC
 TTACAGGCTGCACCATTTCTTGGGCTATACTTCCAACCTCATCAGTTCAGGCATCCGGGAGACCATTCTG
 ATACCTCGTGCAGCACAACATGGTGGATGTATTGGTGACCACTGCTGGAGGTGTGGAAGAAGATCTCATC
 AAATGCCTGGCGCCACATACCTTGGCGAGTTCAGCCTCAGGGGAAGGAGCTCCGGGAGAGTGGGATCA
 ACAGGATTGAAAACCTGCTGGTGCCGAATGACAATTACTGCAAGTTTGGAGACTGGCTCATGCCATTCT
 GGACCAGATGGTGTGGAGCAGAACACAGAGGGTGTGAAGTGGACACCTTCCAAGATGATCTCCCGGCTT
 GGAAGGAGATCAACAACCCAGACTCTGTGTATTATTGGGCCATAAGAACCACATCCCTGTGCTGAGTC
 CAGCACTACAGATGGCTCACTGGGTGACATGATCTTCTCCATTCTATAAAAAACCCAGGCTTGGTCT
 GGACATTGTTGAAGACCTGCGACTCATCAACACGCAGGCCATTTTCGCCAAGCGCTCTGGGATGATCATC
 CTGGGTGGAGGTGTGGTCAAGCACCATTTGCCAACGCTAACCTCATGAGGAATGGAGCAGACTACGCTG
 TTTATATCAACACAGCCAGGAGTTTGTGGCTCAGACTCCGGAGCCCGCCAGATGAGGCTGTCTCTTTG
 GGGCAAGATCCGATGGACGCACAGCCAGTAAAGTCTATGCTGATGCTTCTCTGTTTTCCCTTGCTG
 GTGGCTGAGACATTGCCAAAAGGCAGATGCCTCAGAGCTGAGAAGAATGAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG214016 representing NM_001039514
 Red=Cloning site Green=Tags(s)

MEGTPPGAAPSSALAAVLKHSSALPPESAQVQGYDFNRGVVDYHALLDAYRTTGFQATNFGRAVQQVNAMI
 EKKLEPLAVDEDHHDLTQSRRLTGCTIFLGYTSNLISSGIRETIRYL VQHNMVDLVTAGGVEEDLI
 KCLAPTYLGEFSLRGKELRESGINRIGNLLVPNDNYCKFEDWLMPI LDQMVLEQNTEGVKWTSPKMI SRL
 GKEINNPDSVYYWAHKNHIVLSPALTDGSLGDMIFFHSYKNPGLVLDI VEDLRLINTQAI FAKRSGMII
 LGGGVVKHHIANANLMRNGADYAVYINTAQEFDGSDSGARPDEAVSWGKIRMDAQPVKVYADASLVFPLL
 VAETFAQKADAFRAEKNE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039514

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_001039514.1](#), [NP_001034603.1](#)

RefSeq Size: 1332 bp

RefSeq ORF: 1110 bp

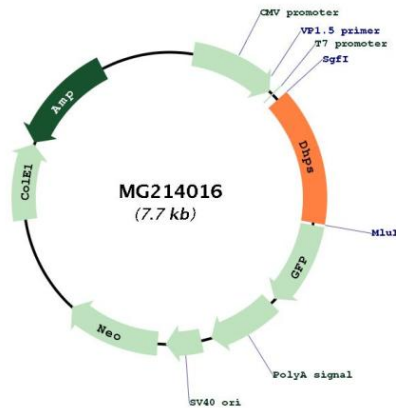
Locus ID: 330817

UniProt ID: [Q3TXU5](#)

Cytogenetics: 8 C3

Gene Summary: Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a critical lysine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue. This is the first step of the post-translational modification of that lysine into an unusual amino acid residue named hypusine. Hypusination is unique to mature eIF-5A factor and is essential for its function.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG214016