

Product datasheet for **MG201742**

Dhps (BC039963) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dhps (BC039963) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dhps
Synonyms: Dhs, MGC49129, MGC74384
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201742 representing BC039963
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCATTCTGGACCAGATGGTCTGGAGCAGAACACAGAGGGTGTGAAGTGGACACCTTCCAAGATGA
 TCTCCCGCTTGGGAAGGAGATCAACAACCCAGACTCTGTGTATTATTGGGCCATAAGAACCACATCCC
 TGTGCTGAGTCCAGCACTCACGGATGGCTCACTGGGTGACATGATCTTCTCCATTCTATAAAAAACCA
 GGCTTGGTCTGGACATTGTTGAAGACCTGCGACTCATCAACACGCAGGCCATTTTCGCCAAGCGCTCTG
 GGATGATCATCTGGGTGGAGGTGTGGTCAAGCACCACATTGCCAACGCTAACCTCATGAGGAATGGAGC
 AGACTACGCTGTTTATATCAACACAGCCCAGGAGTTTGTGGCTCAGACTCCGGAGCCCGCCAGATGAG
 GCTGTCTCTTGGGCAAGATCCGGATGGACGCACAGCCAGTAAAGGTCTATGCTGATGCTTCTCTGGTTT
 TCCCTTGGTGGTGGCTGAGACATTCGCCAAAAGGCAGATGCCTTCAGAGCTGAGAAGAATGAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201742 representing BC039963
 Red=Cloning site Green=Tags(s)

MPILDQMVLEQNTEGVKWPSPKISRGLGKEINNPDSVYYWAHKNHIPPVLSPALTDGSLGDMIFFHSYKNP
 GLVLDIVEDLRLINTQAIFAKRSGMIIILGGVVKHIIANANLMRNGADYAVYINTAQEFDGSDSGARPDE
 AVSWGKIRMDAQPVKVYADASLVFLLVAETFAQKADAFRAEKNE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

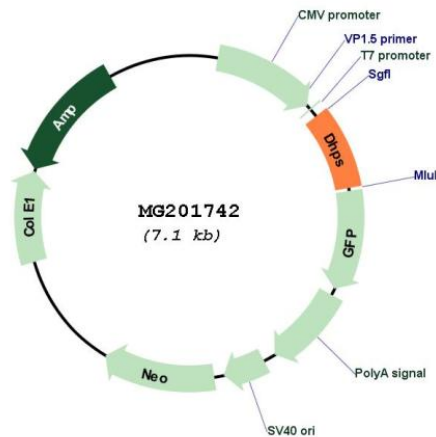


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Cloning Scheme:



Plasmid Map:



ACCN: BC039963

ORF Size: 560 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:	<u>BC039963</u> , <u>AAH39963</u>
RefSeq Size:	1149 bp
RefSeq ORF:	560 bp
Locus ID:	330817
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]