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Product datasheet for MR214016

Dhps (NM_001039514) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dhps (NM_001039514) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dhps
Synonyms:	Dhs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR214016 representing NM_001039514
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGGGACCCCGCCAGGGGCGGCGCCCTCCTCGGCGCTGGCCGCCGTGCTCAAGCACAGCTCAGCGT
TGCCGCCCGAGAGCGCCCAGGTCCAAGGCTACGACTTCAACCGCGGCGTAGATTACCATGCGCTTCTGGA
CGCCTACCGCACCACCGGCTTCCAGGCTACCAACTTCGGGCGCGCGGTGCAGCAAGTCAACGCCATGATT
GAGAAAAAACTGGAGCCACTGGCTGTAGATGAAGATCATCACGCAGACCTGACTCAGAGCCGCCGCCCAC
TTACAGGCTGCACCATTTTCTTGGGCTATACTTCCAACCTCATCAGTTCAGGCATCCGGGAGACCATTCG
ATACCTCGTGCAGCACAACATGGTGGATGTATTGGTGACCACTGCTGGAGGTGTGGAAGAAGATCTCATC
AAATGCCTGGCGCCCACATACCTTGGCGAGTTCAGCCTCAGGGGGAAGGAGCTCCGGGAGAGTGGGATCA
ACAGGATTGGAAACCTGCTGGTGCCGAATGACAATTACTGCAAGTTTGAGGACTGGCTCATGCCCATTCT
GGACCAGATGGTGCTGGAGCAGAACACAGAGGGTGTGAAGTGGACACCTTCCAAGATGATCTCCCGGCTT
GGGAAGGAGATCAACAACCCAGACTCTGTGTATTATTGGGCCCATAAGAACCACATCCCTGTGCTGAGTC
CAGCACTCACAGATGGCTCACTGGGTGACATGATCTTCTTCCATTCCTATAAAAACCCAGGCTTGGTCCT
GGACATTGTTGAAGACCTGCGACTCATCAACACGCAGGCCATTTTCGCCAAGCGCTCTGGGATGATCATC
CTGGGTGGAGGTGTGGTCAAGCACCACATTGCCAACGCTAACCTCATGAGGAATGGAGCAGACTACGCTG
TTTATATCAACACAGCCCAGGAGTTTGATGGCTCAGACTCCGGAGCCCGGCCAGATGAGGCTGTCTCTTG
GGGCAAGATCCGGATGGACGCACAGCCAGTAAAGGTCTATGCTGATGCTTCTCTGGTTTTCCCCTTGCTG
GTGGCTGAGACATTCGCCCAAAAGGCAGATGCCTTCAGAGCTGAGAAGAATGAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

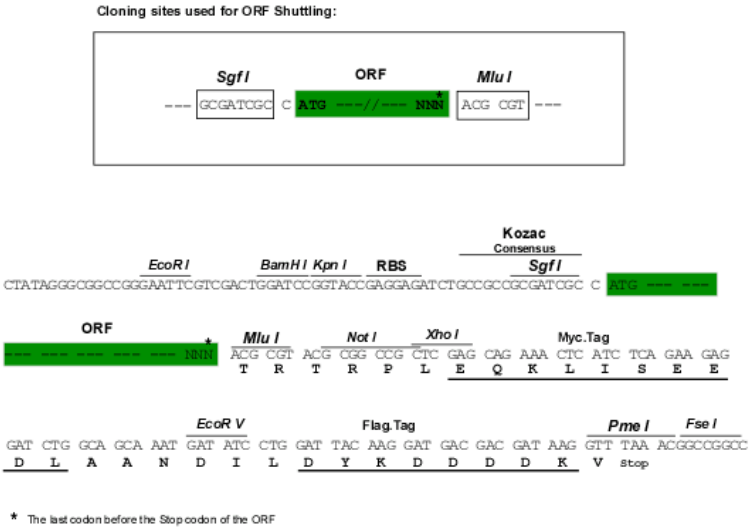
>MR214016 representing NM_001039514
Red=Cloning site Green=Tags(s)

MEGTPPGAAPSSALAAVLKHSSALPPESAQVQGYDFNRGVDYHALLDAYRTTGFQATNFGRAVQQVNAMI
EKKLEPLAVDEDHHADLTQSRRPLTGCTIFLGYTSNLISSGIRETIRYLVQHNMVDVLVTTAGGVEEDLI
KCLAPTYLGEFSLRGKELRESGINRIGNLLVPNDNYCKFEDWLMPILDQMVLEQNTEGVKWTPSKMISRL
GKEINNPDSVYYWAHKNHIPVLSPALTDGSLGDMIFFHSYKNPGLVLDIVEDLRLINTQAIFAKRSGMII
LGGGVVKHHIANANLMRNGADYAVYINTAQEFDGSDSGARPDEAVSWGKIRMDAQPVKVYADASLVFPLL
VAETFAQKADAFRAEKNED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

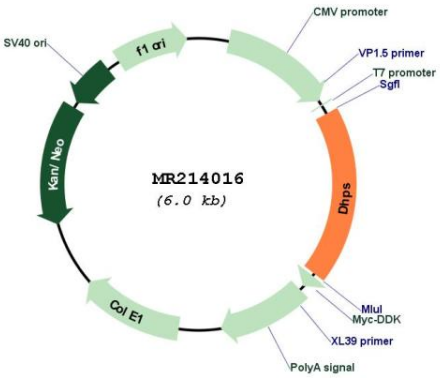
UniProt ID: Q3TXU5

Cytogenetics: 8 C3

MW: 41.1 kDa

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 MR214016