

Product datasheet for MR204226

Dohh (NM_133964) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dohh (NM_133964) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Dohh
Synonyms: 1110033C18Rik; AI585913; AL022869; Hlrc1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR204226 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTAACGGAGCAAGAGATAGAGGCCATAGGGAAGACCTTGGTGGACCCCAAGCAGCCCCTGCAGGCC
 GCTTCCGGGCCCTATTTACACTTCGGGGCTTGGTGGCCCTGATGCTATCTCGTGGATCAGCCGGGGCTT
 TGAGGACAGCTCTGCTCTTCTGAAGCACGAGCTGGCCTACTGCCTGGCCAGATGAGGGACGTACGGCC
 ATCCCTGTGCTGGTGGGTGCTGCAGGACACGAGCCAGGAGCCCATGGTGCCTCAGGAGCAGGGGAAG
 CCCTGGGGCGATTGGTAACCCGGAAGTTCTAGGCCTCCTGAAGCAGTATTCTACGGACCCAGTGGTTGA
 GGTGGCTGAGACGTGCCAGCTCGCCGTTGGTCGCTAGAGTGGCTACAGCAGCACCCGGGGAGGCCACA
 TGTGCAGGACCCTACCTCTCAGTGGACCCAGCACCCCTGCAGCAGAGCAGGATGTGGGGAGGCTGCCGG
 AGGCCCTGCTGGATGAGGCACGGCCACTCTTTGAGCGATACCGTGCCATGTTTGCCTGCCAATGTGGG
 TGGCAAGGAGGCTGCCTTGGCCCTGGCTGAAGGCCTGCAGTGTGGCAGTGCCTCTTCCGCCACGAGGTG
 GGCTATGTGCTGGGTGAGCTGCAGCAGGAGCAGCTGTGCCCGGGCTGGCAGCCACATTGGCGGGACCA
 CTGAGAGTCCCATGGTGCGGCACGAGTGCAGAGGCCCTGGGTGCCATCGCCAGACCTGCCTGCCTGGC
 TGCATTGCGAGAGCACATTGAGGACCCTGAGCAGGTGGTGCGGGAGAGCTGCGAGGTGCCCTGGACATG
 TATGAGTATGAGAGCAGCCAGGATTTCCAGTATGCAGACGGCTGGAGCGCCTGCCGCCACCACCC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204226 protein sequence
 Red=Cloning site Green=Tags(s)

MVTEQEIEAIGKTLVDPKQLQARFRALFTLRGLGGPDAISWISRGFEDSSALLKHELAYCLGQMRDVRA
 IPVLVGLQDTSQEPMRHEAGEALGAIGNPEVLGLLKQYSTDPVVEVAETCQLAVGRLEWLQHPGEAT
 CAGPYLSVDPAPPAAEQDVGRLREALDEARPLFERYRAMFALRNVGGKEAALALAEGLQCGSALFRHEV
 GYVLGQLQHEAAVPGLAATLARTTESPMVRHECAEALGAIARPACLAALREHIEDPEQVVRESCEVALDM
 YEYESSQDFQYADGLERLRPPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133964

ORF Size: 909 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_133964.1](#), [NP_598725.1](#)

RefSeq Size: 1455 bp

RefSeq ORF: 909 bp

Locus ID: 102115

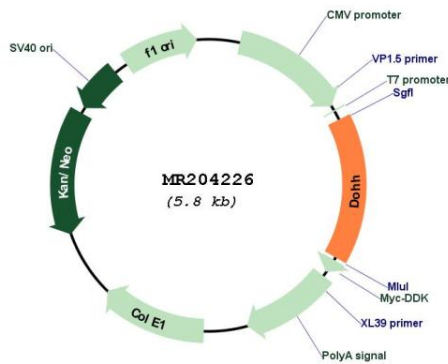
UniProt ID: [Q99LN9](#)

Cytogenetics: 10 C1

MW: 32.9 kDa

Gene Summary: Catalyzes the hydroxylation of the N(6)-(4-aminobutyl)-L-lysine intermediate produced by deoxyhypusine synthase/DHPS on a critical lysine of the eukaryotic translation initiation factor 5A/eIF-5A. This is the second 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 MR204226