

Product datasheet for **MG204226**

Dohh (NM_133964) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dohh (NM_133964) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dohh
Synonyms: 1110033C18Rik; AI585913; AL022869; Hlrc1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204226 representing NM_133964
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTAACGGAGCAAGAGATAGAGGCCATAGGGAAGACCTTGGTGGACCCCAAGCAGCCCCTGCAGGCC
 GCTTCCGGGCCCTATTTACACTTCGGGGCTTGGTGGCCCTGATGCTATCTCGTGGATCAGCCGGGGCTT
 TGAGGACAGCTCTGCTCTTCTGAAGCACGAGCTGGCCTACTGCCTGGCCAGATGAGGGACGTACGGGCC
 ATCCCTGTGCTGGTGGGTGTGCTGCAGGACACGAGCCAGGAGCCCATGGTGCCTCAGGAGCAGGGGAAG
 CCCTGGGGCGATTGGTAACCCGGAAGTTCTAGGCCTCCTGAAGCAGTATTCTACGGACCCAGTGGTTGA
 GGTGGCTGAGACGTGCCAGCTCGCCGTTGGTCTGCTAGAGTGGCTACAGCAGCACCCTGGGGAGGCCACA
 TGTGCAGGACCCTACCTCTCAGTGGACCCAGCACCCTGCAGCAGAGCAGGATGTGGGGAGGCTGCCGG
 AGGCCCTGCTGGATGAGGCACGGCCACTCTTTGAGCGATACCGTGCCATGTTTGCCTGCCAATGTGGG
 TGGCAAGGAGGCTGCCTTGGCCCTGGCTGAAGGCTGCAGTGTGGCAGTGCCTCTTCCGCCACGAGGTG
 GGCTATGTGCTGGGTGAGCTGCAGCAGGAGCAGCTGTGCCCGGGCTGGCAGCCACATTGGCGGGACCA
 CTGAGAGTCCCATGGTGCAGCAGAGTGCAGAGGCCCTGGGTGCCATCGCCAGACCTGCCTGCCTGGC
 TGCATTGCGAGAGCACATTGAGGACCCTGAGCAGGTGGTGCAGGAGAGCTGCGAGGTGCCCTGGACATG
 TATGAGTATGAGAGCAGCCAGGATTTCCAGTATGCAGACGGGCTGGAGCGCCTGCCGCCACCACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG204226 representing NM_133964
 Red=Cloning site Green=Tags(s)

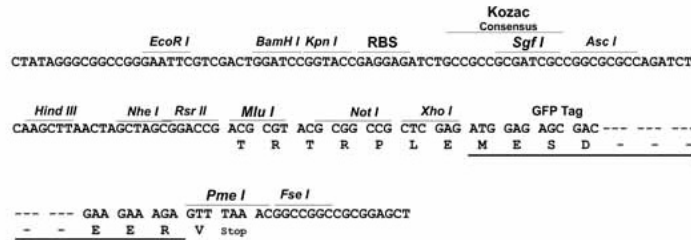
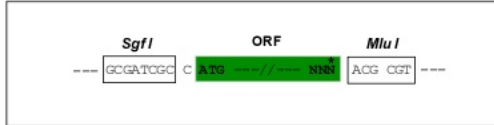
MVTEQEIEAIGKTLVDPKQPLQARFRALFTLRGLGGPDAISWISRGFEDSSALLKHELAYCLGQMRDVRA
 IPVLVGLQDTSQEPMRHEAGEALGAIGNPEVLGLLKQYSTDPVVEVAETCQLAVGRLEWLQHPGEAT
 CAGPYLSVDPAPPAAEQDVGRLREALLDEARPLFERYRAMFALRNVGGKEAALALAEGLQCGSALFRHEV
 GYVLGQLQHEAAVPGLAATLARTTESPMVRHECAEALGAIARPACLAALREHIEDPEQVVRESCEVALDM
 YEYESSQDFQYADGLERLRPPP

TRTRPLE - GFP Tag - V

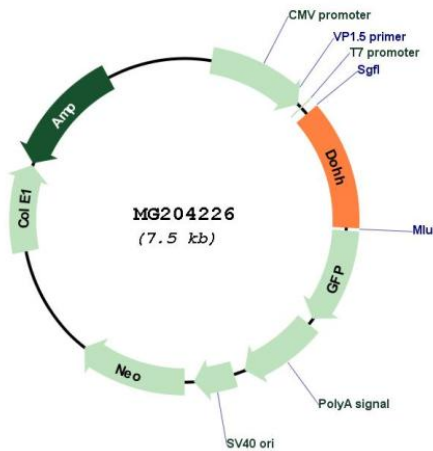
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_133964

ORF Size: 906 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:	NM_133964.1 , NP_598725.1
RefSeq Size:	1377 bp
RefSeq ORF:	909 bp
Locus ID:	102115
UniProt ID:	Q99LN9
Cytogenetics:	10 C1
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]