

Product datasheet for **RR214509**

Dohh (NM_001025006) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dohh (NM_001025006) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Dohh
Synonyms: RGD1304783
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214509 representing NM_001025006
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTAACAGAACAGGAGGTAGAGGCCATAGGGAAAACCCCTAGTGGACTCCACGCAGCCCTGCAGGCC
GCTTCCGTGCCCTGTTTACCCTGCGGGGACTTGGTGGCCCGATGCTATCTCCTGGATCAGCCGAGGCTT
TGAGGACAGCTCTGCCCTTCTGAAGCACGAGCTAGCCTACTGCCTGGCCAGATGAGGGACCCACGAGCC
ATCCCTGTGCTGGTGTCCGTCTACAGGACAGGAACCAGGAGCCCATGGTGCCTCATGAGGCAGGGGAAG
CACTGGGGGCGATTGGTAACCCGAAAGTTCTAGGCCTCCTGAAGCAGTATTCCACCGACCCAGTGGTTGA
GGTGGCTGAGACGTGCCAGCTCGCCGTTAGGCGTCTAGAGTGGCTGCAGCAGCACCCGGGGAGGCCACA
TGTGCAGGACCCCTACCTCTCAGTAGATCCTGCACCCCTGCGGCAGAAGGTGATGTGGGGCGGCTGCGGG
AGACCCCTGCTGGATGAGGCGCAGCCACTTTCGAGCGGTACCGTGCATGTTTGCCTGCCAATGTGGG
TGGCAAGGAGGCTGCCTTGGCCCTGGCTGAAGGCCTGAAGTGTGGCAGTGCCTCTTCCGACACGAGGTG
GGCTATGTGCTGGGTGAGTGCAGCAGCAAGCAGCCGTGTCTGAAGTGGCAGCCACATTGGCAGGACCA
CTGAGAGCCCCATGGTACGACATGAGTGGCAGAGGCCCTGGGTGCCATGCCAGGCCTGCCTGCCTGGC
TGCACTGCGGGAGTACATCACGGACCCTGAGCGAGTGGTGGGGAGAGCTGCGAGGTAGCACTGGACATG
TATGAGTATGAAAATGGCCAGGACTTCCAGTACGCAGATGGGCTCGAGCGCTGAGGCCACCGCCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214509 representing NM_001025006
 Red=Cloning site Green=Tags(s)

MVTEQEVEAIGKTLVDSTQPLQARFRALFTLRGLGGPDAISWISRGFEDSSALLKHELAYCLGQMRDPRA
 IPVLVSVLQDRNQEPMRHEAGEALGAIGNPKVLGLLKQYSTDPVVEVAETCQLAVRRLEWLQHPGEAT
 CAGPYLSVDPAPPAEAGDVGRRLRETLLEAQLFERYRAMFALRNVGGKEAALALAEGLKCGSALFRHEV
 GYVLGQLQHEAAVSELAATLARTTESPMVRHECAEALGAIARPACLAALREYITDPERVVRESCEVALDM
 YEYENGQDFQYADGLERLRPPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

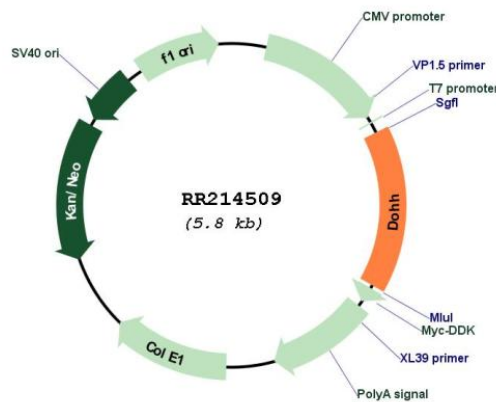
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025006

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_001025006.1 , NP_001020177.1
RefSeq Size:	1541 bp
RefSeq ORF:	909 bp
Locus ID:	314644
UniProt ID:	Q5PPJ4
Cytogenetics:	7q11
MW:	33.1 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]