

Product datasheet for MR221999

Ddah2 (NM_016765) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddah2 (NM_016765) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ddah2
Synonyms:	1110003M04Rik; AU019324; AW413173; Ddah; DDAH-2; DDAHII; G6a; NG30
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR221999 representing NM_016765 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGACGCCGGGGGAGGGGCTGGGTCGTTGTTCCCATGCCCTGATCCGGGGTGTCCCGAGAGCTTGG
CATCCGGGAAGGTGCTGGCGCTGGTCTCCGGCTCTGGACCTGGCTAAAGCTCAAAGGGAGCATGGAGT
ACTAGGAGGTAAGTGAAGCAACGACTAGGGCTGCAGCTGCTTGAAGTGCCTCCTGAGGAGTCAGTCCG
CTGGGACCACTGCTTGGTGACACGGCTGTGATCCAAGGAGACACGGCCCTAATCACAAGGCCTGGAGCC
CAGCACGTAGGCCTGAGTTGATGGAGTGCCTAAAGCCCTCCAGGACTTGGGACTCCGAATTGTGGAGAT
GGGGGATGAGAATGCGACGCTGGACGGCACCGACGTCCTTTCACCGCCGGGAGTTTTTCGTAGGCCTC
TCCAAGTGGACCAATCATCGAGGAGCTGAGATCGTGGCAGACACGTTCCGGGACTTCGCTGTCTCAACGG
TACCGTCTCAGGCTCCTCGACCTGCGCGGCCTCTGTGGCATGGGGGGACCTCGCACCGTGGTGGCTGG
AAGCAGCGAGGCTGCCAAAAAGCAGTCAGGGCAATGGCAGCGCTGACTGATCACCCCTACGCCTCTCTG
ACCCTCCAGATGATGCAGCTAGTACTGTCTTTCTGCGTCTGGGTTGCCTGGTCCACACCTTTCC
TCCTGCACCGCGGAGGCTCTGCAGAAGCTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221999 representing NM_016765
Red=Cloning site Green=Tags(s)

MGTPGEGLRCSHALIRGVPESLASGEGAGAGLPALDLAKAQRHGVLGKLRQLGLQLLELPPEESLP
 LGPLLGD TAVIQGDTALITRPWSPARRPEVDGVRKALQDLGLRIVEMGDENATLDGTDVLF TGREFFVGL
 SKWTNHRGAEIVADTFRDFAVSTVPVSGSSHLRGLCGMGGPRTVVAGSSEAAQKAVRAMAALTDHPYASL
 TLPDDAASDCLFLRPGLPGATPFLLHRGGS AEAL

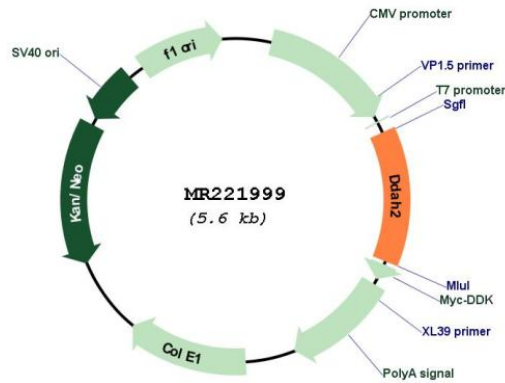
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_016765
ORF Size: 732 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_016765.3](#), [NP_058045.1](#)

RefSeq Size: 1324 bp

RefSeq ORF: 735 bp

Locus ID: 51793

Cytogenetics: 17 B1

MW: 25.8 kDa

Gene Summary: Hydrolyzes N(G),N(G)-dimethyl-L-arginine (ADMA) and N(G)-monomethyl-L-arginine (MMA) which act as inhibitors of NOS. Has therefore a role in the regulation of nitric oxide generation (By similarity).[UniProtKB/Swiss-Prot Function]