

Product datasheet for **RC200287**

DDAH2 (NM_013974) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDAH2 (NM_013974) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDAH2
Synonyms:	DDAH; DDAHII; G6a; HEL-S-277; NG30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200287 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGACCGGGGGAGGGGCTGGGCCGTGCTCCCATGCCCTGATCCGGGGAGTCCCAGAGAGCCTGG
CGTCGGGGGAAGGTGCGGGGGCTGGCCTTCCCCTCTGGATCTGGCCAAAGCTCAAAGGGAGCACGGGGT
GCTGGGAGGTAAGTGAAGCAACGACTGGGGCTACAGCTGCTAGAACTGCCACCTGAGGAGTCATTGCCG
CTGGGACCGCTGCTTGGCGACACGGCCGTGATCCAAGGGGACACGGCCCTAATCACGCGGCCCTGGAGCC
CCGCTCGTAGGCCAGAGGTCGATGGAGTCCGCAAAGCCCTGCAAGACCTGGGGCTCCGAATTGTGAAAT
AGGAGACGAGAACGCGACGCTGGATGGCACTGACGTTCTCTTACCGGCCGGGAGTTTTTCGTAGGCCTC
TCCAAATGGACCAATCACCGAGGAGCTGAGATCGTGGCGGACACGTTCCGGGACTTCGCCGTCTCCACTG
TGCCAGTCTCGGGTCCCTCCCACCTGCGCGGTCTCTGCGGCATGGGGGGACCTCGCACTGTTGTGGCAGG
CAGCAGCGACGCTGCCAAAAGGCTGTCCGGGCAATGGCAGTGTGACAGATCACCCATATGCCTCCCTG
ACCCTCCCAGATGACGACGCTGCTGACTGTCTTTCTTCTCGTCTGGGTTGCCTGGTGTGCCCTTTTC
TCCTGCACCGTGGAGGTGGGATCTGCCAACAGCCAGGAGGCACTGCAGAAGCTCTCTGATGTACCCT
GGTACCTGTGCTCTCAGAAGCTGGAGAAGGCTGGCGCCGGGCTCAGCTCCCTCTGCTTGGTGTCTCAGC
ACACGCCCCACAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



Protein Sequence: >RC200287 protein sequence
Red=Cloning site Green=Tags(s)

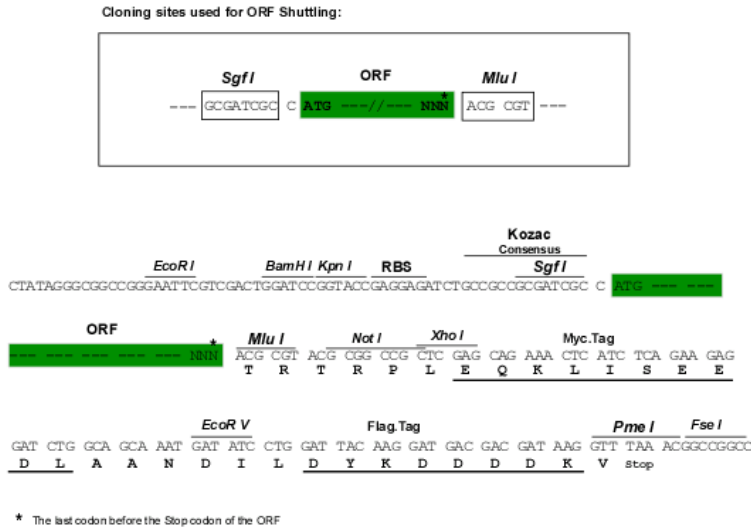
MGTPGEGLGRCSHALIRGVPEASLAGEGAGALPALDLAKAQRHGVGGKLRQLGLQLLELPPEESLP
 LGPLLGDTAVIQGDALITRPWSPARRPEVDGVRKALQDLGLRIVEIGDENATLDGTDVLFTRGREFFVGL
 SKWTNHRGAEIVADTFRDFAVSTVPVSGP SHLRGLCGMGGPRTVVAGSSDAAQKAVRAMAVLTDHPYASL
 TLPDDAAADCLFLRPLPGVPPFLLHRGGDL PNSQEALQKLSVDTLVPVSCSELEKAGAGLSSLCLVLS
 TRPHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6061_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013974

ORF Size: 855 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_013974.3](#)

RefSeq Size: 1351 bp

RefSeq ORF: 858 bp

Locus ID: 23564

UniProt ID: [O95865](#)

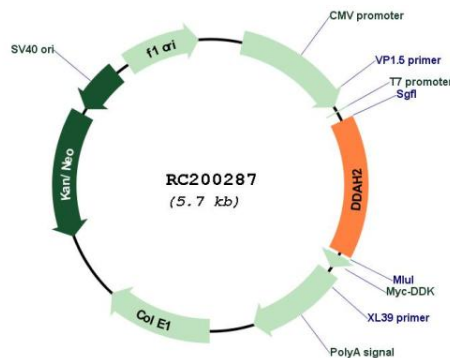
Cytogenetics: 6p21.33

Domains: Amidinotransf

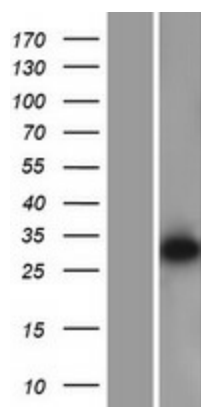
MW: 29.6 kDa

Gene Summary: This gene encodes a dimethylarginine dimethylaminohydrolase. The encoded enzyme functions in nitric oxide generation by regulating the cellular concentrations of methylarginines, which in turn inhibit nitric oxide synthase activity. The protein may be localized to the mitochondria. Alternative splicing resulting in multiple transcript variants. [provided by RefSeq, Dec 2014]

Product images:



Circular map for RC200287



Western blot validation of overexpression lysate (Cat# [LY415561]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200287 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).