

Product datasheet for RC225195

DDAH1 (NM 001134445) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: DDAH1 (NM_001134445) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: DDAH1

Synonyms: DDAH; DDAH-1; DDAHI; HEL-S-16

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC225195 representing NM_001134445
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGAGATCTGCC

GCCGCGATCGCC

ATGATGAAAGAAGCATTAGAAAAACTTCAGCTCAATATAGTAGAGATGAAAGATGAAAATGCAACTTTAG
ATGGCGGAGATGTTTTATTCACAGGCAGAGAATTTTTTGTGGGCCTTTCCAAAAGGACAAATCAACGAGG
TGCTGAAATCTTGGCTGATACTTTTAAGGACTATGCAGTCTCCACAGTGCCAGTGGCAGATGGGTTGCAT
TTGAAGAGTTTCTGCAGCATGGCTGGGCCTAACCTGATCGCAATTGGGTCTAGTGAATCTGCACAGAAGG
CCCTTAAGATCATGCAACAGATGAGTGACCACCGCTACGACAAACTCACTGTGCCTGATGACATAGCAGC
AAACTGTATATATCTAAATATCCCCAACAAAGGGCACGTCTTGCTGCACCGAACCCCGGAAGAGTATCCA
GAAAGTGCAAAGGTTTATGAGAAACTGAAGGACCATATGCTGATCCCCGTGAGCATGTCTGAACTGGAAA
AGGTGGATGGGCTGCTCACCTGCTCAGTTTTAATTAACAAGAAAGTAGACTCC

AUGTUGATUGUCTUCTCACCTUCTCAGTTTTAATTAACAAGAAAGTAGACTCC

 ${\sf ACGCGT}$ ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225195 representing NM_001134445

Red=Cloning site Green=Tags(s)

MMKEALEKLQLNIVEMKDENATLDGGDVLFTGREFFVGLSKRTNQRGAEILADTFKDYAVSTVPVADGLH LKSFCSMAGPNLIAIGSSESAQKALKIMQQMSDHRYDKLTVPDDIAANCIYLNIPNKGHVLLHRTPEEYP

ESAKVYEKLKDHMLIPVSMSELEKVDGLLTCCSVLINKKVDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1465-a05.zip



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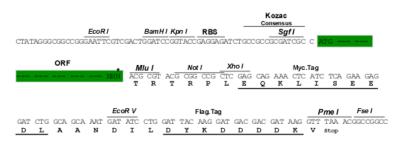
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001134445

ORF Size: 546 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: <u>NM 001134445.2</u>

 RefSeq ORF:
 549 bp

 Locus ID:
 23576

 UniProt ID:
 094760

 Cytogenetics:
 1p22.3



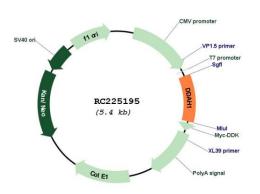
MW:

20 kDa

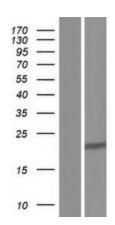
Gene Summary:

This gene belongs to the dimethylarginine dimethylaminohydrolase (DDAH) gene family. The encoded enzyme plays a role in nitric oxide generation by regulating cellular concentrations of methylarginines, which in turn inhibit nitric oxide synthase activity. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC225195



Western blot validation of overexpression lysate (Cat# [LY427443]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225195 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).