

Product datasheet for **RG207548**

DDAH1 (NM_012137) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DDAH1 (NM_012137) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DDAH1
Synonyms: DDAH; DDAH-1; DDAHI; HEL-S-16
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207548 representing NM_012137
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGGGCTCGGCCACCCCGCCCTTCGGCCGGGCCACCCACGCCGTGGTGCGGGGCTACCCGAGT
 CGCTCGGCCAGCACGCGCTGAGAAGCGCCAAGGGCGAGGAGGTGGACGTCGCCCGCGGGAACGGCAGCA
 CCAGCTCTACGTGGGCGTCTGGGCAGCAAGCTGGGGCTGCAGGTGGTGGAGCTGCCGGCCGACGAGAGC
 CTTCCGGACTGCGTCTTCGTGGAGGACGTGGCCGTGGTGTGCGAGGAGACGGCCCTCATACCCGACCCG
 GGGCGCCGAGCCGAGGAAGGAGTTGACATGATGAAAGAAGCATTAGAAAACTTCAGTCAATATAGT
 AGAGATGAAAGATGAAAATGCAACTTTAGATGGCGGAGATGTTTTATTACAGGCAGAGAATTTTTGTG
 GGCTTTCCAAAAGGACAAATCAACGAGGTGCTGAAATCTGGCTGATACTTTAAGGACTATGCAGTCT
 CCACAGTGCCAGTGGCAGATGGGTTGCATTTGAAGAGTTTCTGCAGCATGGCTGGGCTAACCTGATCGC
 AATTGGGTCTAGTGAATCTGCACAGAAGGCCCTTAAGATCATGCAACAGATGAGTGACCACCGCTACGAC
 AAACACTGTGCCTGATGACATAGCAGCAAAGTATATATCTAAATATCCCAACAAAGGGCAGCTCT
 TGCTGCACCGAACCCGGAAGAGTATCCAGAAAGTCAAAGGTTTATGAGAACTGAAGGACCATATGCT
 GATCCCGTGAGCATGTCTGAACTGAAAAGGTGGATGGGCTGCTCACCTGCTGCTCAGTTTTAATTAAC
 AAGAAAAGTAGACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207548 representing NM_012137
 Red=Cloning site Green=Tags(s)

MAGLGHPAAFGRATHAVVRALPESLGQHALRSAGKEEVDVARAERQHQLYVGLGSKLGLQVVELPADES
 LPDCVFVEDVAVVCEETALITRPGAPSRRKEVDMMEALEKLQLNIVEMKDENATLDGGDVLFTGREFFV
 GLSKRTNQRGAEILADTFKDYAVSTVPVADGLHLKSFCSMAGPNLIAIGSSESAQKALKIMQQMSDHRYP
 KLTVPDDIAANCIYLNIPNKGHVLLHRTPEEYPESAKVYEKLDHMLIPVSMSELEKVDGLLTCCSVLIN
 KKVDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012137

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_012137.4](#)

RefSeq Size: 3949 bp

RefSeq ORF: 858 bp

Locus ID: 23576

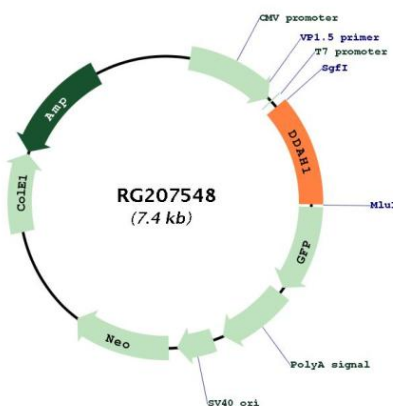
UniProt ID: [O94760](#)

Cytogenetics: 1p22.3

Domains: Amidinotransf

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 RG207548