

## Product datasheet for **RC237180**

### DDAH2 (NM\_001303007) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DDAH2 (NM\_001303007) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** DDAH2  
**Synonyms:** DDAH; DDAHII; G6a; HEL-S-277; NG30  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237180 representing NM\_001303007  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGGACCGCGGGGAGGGGCTGGGCCGCTGCCATGCCCTGATCCGGGGAGTCCAGAGAGCCTGG  
CGTCGGGGGAAGGTGCGGGGCTGGCCTTCCCCTCTGGATCTGGCCAAAGCTCAAAGGGAGCACGGGT  
GCTGGGAGGTAAGTGAAGCAACGACTGGGGCTACAGCTGCTAGAACTGCCACCTGAGGAGTCATTGCCG  
CTGGGACCGCTGCTTGGCGACACGGCCGTGATCCAAGGGGACACGGCCCTAATCACGCGGCCCTGGAGCC  
CCGCTCGTAGGCCAGAGGTCGATGGAGTCCGCAAAGCCCTGCAAGACCTGGGGCTCCGAATTGTGAAAT  
AGGAGACGAGAACCGGACGCTGGATGGCACTGACGTTCTTTCACCGCCGGGAGTTTTTCGTAGGCCTC  
TCCAAATGGACCAATCACCGAGGAGCTGAGATCGTGGCGGACACGTTCCGGGACTTCGCCGCTCCTCACTG  
TGCCAGTCTCGGGTCCCTCCCACCTGCGCGGTCTCTGCGGCATGGGGGGACCTCGCACTGTTGTGGCAGG  
CAGCAGCGACGCTGCCAAAAGGCTGTCCGGGCAATGGCAGTGTGACAGATCACCCATATGCCTCCCTG  
ACCCTCCCAGATGACGCAGCTGCTGACTGTCTTTCTTCGTCTGGGTTGCCTGGTGTGCCCCCTTTCC  
TCCTGCACCGTGGAGGTGGGATCTGCCAACAGCCAGGAGGCACTGCAGAAGCTCTCTGATGTACCCT  
GGTACCTGTCTCTGCTCAGAAGGCTGGCGCCGGGCTCAGCTCCCTCTGCTTGGTGTCTCAGC  
ACACGCCCCACAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237180 representing NM\_001303007  
 Red=Cloning site Green=Tags(s)

MGTPGEGLGRCSHALIRGVPEASLASEGAGAGLPALDLAKAQRHGVLGKLRQRLGLQLLELPPEESLP  
 LGPLLGD TAVIQGDTALITRPWSPARRPEVDGVRKALQDLGLRIVEIGDENATLDGTDVLF TGREFFVGL  
 SKWTNHRGAEIVADTFRDFAVSTVPVSGP SHLRGLCGMGGPRTVVAGSSDAAQKAVRAMAVLTDHPYASL  
 TLPDDAAADCLFLRPGLPGVPPFLLHRGGDL P NSQEALQKLSDVTLVPVSCSELEKAGLSSLCLVLS  
 TRPHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

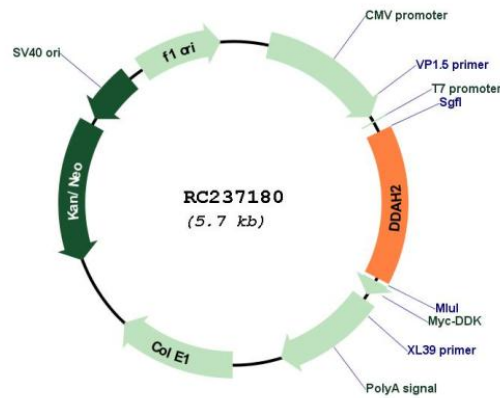
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001303007

**ORF Size:** 855 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001303007.2</a>
<b>RefSeq Size:</b>	2178 bp
<b>RefSeq ORF:</b>	858 bp
<b>Locus ID:</b>	23564
<b>UniProt ID:</b>	<a href="#">O95865</a>
<b>Cytogenetics:</b>	6p21.33
<b>MW:</b>	30.1 kDa
<b>Gene Summary:</b>	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]