

## Product datasheet for **RG237181**

### DDAH2 (NM\_001303008) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DDAH2 (NM_001303008) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDAH2
Synonyms:	DDAH; DDAHII; G6a; HEL-S-277; NG30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237181 representing NM_001303008. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGGGACCGGGGGAGGGGCTGGGCCGCTGCTCCCATGCCCTGATCCGGGGAGTCCCAGAGAGCCTG
GCGTCGGGGGAAGGTGCGGGGGCTGGCCTTCCCGCTCTGGATCTGGCAAAGCTCAAAGGGAGCACGGG
GTGCTGGGAGGTAAGTAACTGAGGCAACGACTGGGGCTACAGCTGCTAGAAGTCCACCTGAGGAGTCATTG
CCGCTGGGACCGCTGCTTGGCGACACGGCCGTGATCCAAGGGACACGGCCCTAATCACGCGGCCCTGG
AGCCCCGCTCGTAGGCCAGAGGTCGATGGAGTCCGCAAAGCCCTGCAAGACCTGGGGCTCCGAATTGTG
GAAATAGGAGACGAGAACGCGACGCTGGATGGCACTGACGTTCTCTTACCGGCCGGGAGTTTTTCGTA
GGCCTCTCCAAATGGACCAATCACCGAGGAGCTGAGATCGTGGCGGACAGGTTCCGGGACTTCGCCGTC
TCCACTGTGCCAGTCTCGGGTCCCTCCCACCTGCGCGGTCTCTGCGGCATGGGGGACCTCGCACTGTT
GTGGCAGGCAGCAGCGACGCTGCCAAAAGGCTGTCCGGGCAATGGCAGTGTGACAGATCACCCATAT
GCCTCCCTGACCTCCCAGATGACGCAGCTGCTGACTGTCTTTCTTCTTCTGCTGGGTTGCCTGGTGTG
CCCCCTTCTCCTGCACCGTGGAGGTGGGGATCTGCCAACAGCCAGGAGGCACTGCAGAAGCTCTCT
GATGTCACCTGGTACCTGTGTCTCTCAGAAGTGGAGAAGGCTGGCGCCGGGCTCAGTCCCTCTGC
TTGGTGCTCAGCACACGCCCCACAGC
ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237181  
 Blue=ORF Red=Cloning site Green=Tag(s)

MGTPGEGLGRCSHALIRGVPESLASGEGAGALPALDLAKAQRHGVGGKLRQLGLQLLELPPEESL  
 PLGPLLGDTAVIQGDALITRPWSPARRPEVDGVRKALQDLGLRIVEIGDENATLDGTDVLTGREFFV  
 GLSKWTHNRGAEIVADTFRDFAVSTVPVSGPSHLRGLCGMGGPRTVVAGSSDAAQKAVRAMAVLTDHPY  
 ASLTLPDDAAADCLFLRPGLPGVPPFLLHRGGGDLNSQEQALQKLSDVTLVPVSCSELEKAGAGLSSLC  
 LVLSTRPHS

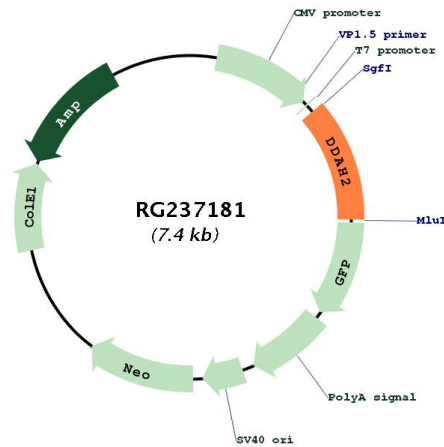
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001303008

<b>ORF Size:</b>	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>RefSeq:</b>	<a href="#">NM_001303008.2</a>
<b>RefSeq Size:</b>	1278 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]