

## Product datasheet for **RG207125**

### HIBADH (NM\_152740) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HIBADH (NM_152740) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HIBADH
Synonyms:	NS5ATP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207125 representing NM_152740 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCCTCCTACGGCTCCTCGGAGCTGCCTCCGGTCTCCGGTACTGGAGCCGGCGGCTGCGGCCGG  
CAGCCGGCAGCTTTCAGCGGTGTGTTCTAGGTCAGTGGCTTCAAAGACTCCAGTTGGATTATTGGACT  
GGCAACATGGGAATCCAATGGCAAAAAATCATGAAACATGGCTATCCACTTATTATTTATGATGTG  
TTCCCTGATGCCTGCAAAGAGTTTCAAGATGCAGGTGAACAGGTAGTATCTTCCCAGCAGATGTTGCTG  
AAAAAGCTGACAGAATTATTACAATGCTGCCACCAGTATCAATGCAATAGAAGCTTATTCCGGAGCAAA  
TGGGATTCTAAAAAAGTGAAGAAGGGCTCATTATTAATAGATTCCAGCACTATTGATCCTGCAGTTTCA  
AAAGAATTGGCCAAAGAAGTTGAGAAAAATGGGAGCAGTTTTTCATGGATGCCCTGTTTCTGGTGGTGTAG  
GAGCTGCACGATCTGGGAACCTCACGTTTATGGTGGGAGGAGTTGAAGATGAATTTGCTGCTGCCAAGA  
GTTGCTGGGGTGCATGGGCTCCAACGTGGTGTACTGTGGAGCTGTTGGGACTGGGCAGGCCGCAAGATC  
TGCAACAACATGCTGTTAGCTATTAGTATGATTGGAAGTCTGAAGCTATGAATCTTGAATCAGGTTAG  
GGCTTGACCCAAAACACTGGCTAAAATCCTAAATATGAGCTCAGGACGGTGTGGTCAAGTGACACTTA  
TAATCCTGTACCTGGAGTGTGGATGGCGTTCCCTCGGCTAAACTATCAGGTTGGATTGGAACAACA  
CTCATGGCTAAGGATCTGGGATTGGCACAAGACTCTGCTACCAGCACAAGAGCCCAATCCTTCTTGCA  
GTCTGGCCCATCAGATCTACAGGATGATGTGCAAAGGGCTACTCAAAGAAAGACTTCTCATCCGTGTT  
CCAGTTCTACGAGAGGAGGAGACCTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207125 representing NM\_152740  
 Red=Cloning site Green=Tags(s)

MAASLRLLGAASGLRYWSRRLRPAAGSFAAVCSRSVASKTPVGF IGLGNMGNPMAKNLMKHGYPLIIYDV  
 FPDACEKFQDAGEQVVSPPADVAEKADRIITMLPTSINAIEAYSGANGILKVKKGSLLIDSSTIDPAVS  
 KELAKEVEKMGAVFMDAPVSGGVAARSNLT FMVGGVEDEF AAAQELLGCMGNSNVVYCGAVGTGQAAKI  
 CNNMLLAISMIPTAEAMNLRGLGLDPKLLAKILNMSSGRCSWSDTYNPVPGVMDGVPSANNYQGGFGTT  
 LMAKDLGLAQSATSSTKSPILLGSLAHQIYRMMCAKGYSKKDFSSVFQFLREEETF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_152740

**ORF Size:** 1008 bp

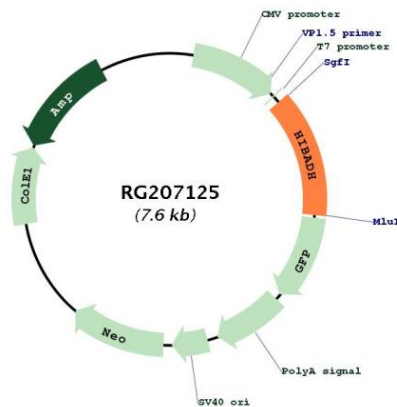
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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_152740.4</a>
<b>RefSeq Size:</b>	2006 bp
<b>RefSeq ORF:</b>	1011 bp
<b>Locus ID:</b>	11112
<b>UniProt ID:</b>	<a href="#">P31937</a>
<b>Cytogenetics:</b>	7p15.2
<b>Domains:</b>	NAD_binding_2
<b>Protein Pathways:</b>	Metabolic pathways, Valine, leucine and isoleucine degradation
<b>Gene Summary:</b>	This gene encodes a mitochondrial 3-hydroxyisobutyrate dehydrogenase enzyme. The encoded protein plays a critical role in the catabolism of L-valine by catalyzing the oxidation of 3-hydroxyisobutyrate to methylmalonate semialdehyde. [provided by RefSeq, Nov 2011]

**Product images:**



Circular map for RG207125