

## Product datasheet for **MG204244**

### Hadh (NM\_008212) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hadh (NM_008212) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hadh
Synonyms:	AA409008; AU019341; AW742602; Hadhsc; HCDH; Schad
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204244 representing NM_008212 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTTCGTGACCAGGCAATCTTGCCTCCATGTCCTCCTCTCCTGCGTCGGCGGCCGCAAGA  
AGATCCTGATCAAGCATGTGACCGTCATCGCGCGGGCTGATGGGCGCCGGCATCGCGCAGGTAGCTGC  
AGCAACTGGCCATACAGTAGTATTGGTGGACAAACGGAAGACATCCTGGCAAAATCCAAGAAGGGAATT  
GAGGAGAGTCTAAAGAGGATGGCAAAGAAGAAGTTCACAGAAAACCTAAGGCTGGAGATGAGTTTGTGG  
AGAAGACCCTGAGCTGCCTTTCAACCAGCACCGATGCGGCATCCGTGGTGCACAGCACAGACCTGGTGGT  
GGAGGCCATTGTGGAAACCTGAAGCTGAAGAACGAGCTGTTCCAGAGGCTGGACAAGTTCGCTGCAGAA  
CACACCATCTTTGCCAGCAACACGTCTTCTTTGCAGATCACAAACATAGCCAATGCCACCACCAGACAAG  
ACCGATTTGCTGGCCTCCACTTTTTCAACCCCGTGCCTATGATGAAGCTTGTGGAGGTATCAAAACACC  
GATGACCAGCCAGAAGACATTTGAATCTCTGGTGGACTTTTGTAAAACCTTAGGAAAGCATCCTGTCTCT  
TGCAAGGACACTCCTGGATTCATCGTGAACCGACTCTTGGTGCCATACCTCATTGAGGCCGTGAGGCTAC  
ACGAGCGAGGCGATGCGTCTAAGGAAGACATCGATACAGCGATGAAGCTGGGAGCTGGGTATCCCATGGG  
TCCGTTTGAGCTTCTTGACTATGTTGACTGGATACTACAAAGTTCATCTTGACGGGTGGCATGAAATG  
GAGCCAGAGAACCCTTATTTACGCCAGTCTTCCATGAATAATCTGGTGGCCAGAAGAAGCTGGGCA  
AGAAGACCGGAGAAGGATTTTACAAATACAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204244 representing NM\_008212  
 Red=Cloning site Green=Tags(s)

MAFVTRQFLRSMSSSSASAAKKILIKHVTVIGGGLMGAGIAQVAAATGHTVVLVDQTEDILAKSKKGI  
 EESLKRMAKKKF TENPKAGDEFVEKTL SCLSTSTDAASVVHSTDLVVEAIVENLKLKNELFQRLDKFAAE  
 HTIFASNTSSLQITNIANATTRQDRFAGLHFFNPVPMMLKLEVIKTPMTSQKTFESLVDFCKTLGKHPVS  
 CKDTPGFIVNRLLPYLIEAVRLHERGDASKEDIDTAMKLGAGYPMGPFELLDYVGLDTTKFILDGWHHEM  
 EPENPLFQPSPSMNMLVAQKLLGKKTGEFYKYK

TRTRPLE - GFP Tag - V

**Restriction Sites:**

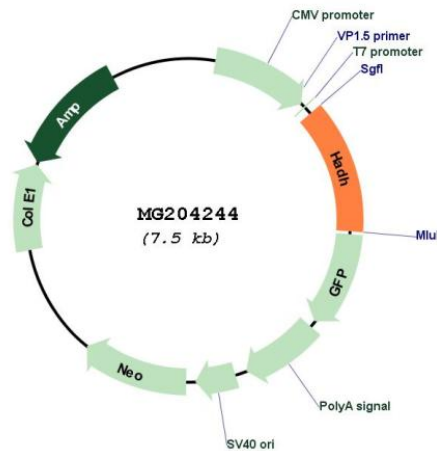
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_008212

**ORF Size:** 942 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_008212.4</a>
<b>RefSeq Size:</b>	1721 bp
<b>RefSeq ORF:</b>	945 bp
<b>Locus ID:</b>	15107
<b>UniProt ID:</b>	<a href="#">Q61425</a>
<b>Cytogenetics:</b>	3 G3
<b>Gene Summary:</b>	Plays an essential role in the mitochondrial beta-oxidation of short chain fatty acids. Exerts it highest activity toward 3-hydroxybutyryl-CoA.[UniProtKB/Swiss-Prot Function]