

## Product datasheet for **MG227451**

### Ldha (NM\_001136069) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ldha (NM_001136069) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ldha
Synonyms:	I7; I7R2; LDH; Ldh-; Ldh1; Ldhm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227451 representing NM_001136069 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTAAGTCCTCAGGCGGCTACACGTACACGGAGACCTCGGTATTATTTTTCCATTTCAAGGTCTCAA  
AAGATTCAAAGTCCAAGATGGCAACCCTCAAGGACCAGCTGATTGTGAATCTTCTTAAGGAAGAGCAGGC  
TCCCCAGAACAAAGATTACAGTTGTTGGGTTGGTCTGTTGGCATGGCTTGTGCCATCAGTATCTTAATG  
AAGGACTTGGCGGATGAGCTTGGCCTTGTGACGTCATGGAAGACAACTCAAGGGCGAGATGATGGATC  
TCCAGCATGGCAGCCTTTCCTTAAAACACCAAAAATTGTCTCCAGCAAAGACTACTGTGTAAGTCCGAA  
CTCCAAGCTGGTCAATTATCACCGCGGGGCCCGTCAGCAAGAGGGGAGAGCCGGCTCAACTGGTCCAG  
CGAAACGTGAACATCTTCAAGTTCATCATTCCCAACATTGTCAAGTACAGTCCCACTGCAAGCTGCTGA  
TCGTCTCCAATCCAGTGGATATCTTGACCTACGTGGCTTGGAAAAATCAGTGGCTTTCCAAAAACCGAGT  
AATTGGAAGTGGTTGCAATCTGGATTACGCGCGGTTCCGTTACCTGATGGGAGAGAGGCTGGGGTTAC  
GCGCTGAGCTGTACGGCTGGTCTGGGAGAACATGGCGACTCCAGTGTGCCTGTGTGGAGTGGTGTGA  
ATGTTGCCGGCTCTCCCTGAAGTCTCTTAACCCAGAAGTGGGCACTGACGCAGACAAGGAGCAGTGGAA  
GGAGGTTCAACAAGCAGGTGGTGGACAGTGCCTACGAGGTGATCAAGCTGAAAGGTTACACATCCTGGGCC  
ATTGGCCTCTCTGTGGCAGACTTGGCTGAGAGCATAATGAAGAACCTTAGCGGGTGCATCCCATTTCCA  
CCATGATTAAGGTCTCTATGGAATCAATGAGGATGTCTTCTCAGTGTCCCATGTATCCTGGGACAAAA  
TGGAAATCTCGGATGTTGTGAAGGTGACACTGACTCCTGAGGAAGAGGCCCGCTGAAGAAGAGCGCAGAC  
ACCCTCTGGGAATCCAGAAGGAGCTGCAGTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG227451 representing NM\_001136069  
 Red=Cloning site Green=Tags(s)

MSKSSGGYTYTETSVLFFHFVKVSKDSKSKMATLKDQLIVNLLKEEQAPQNKITVVGVGAVGMACAISILM  
 KDLADELALVDVMEDKLGEMMDLQHGSFLKTPKIVSSKDYCVTANSKLVIIITAGARQQEGESRLNLVQ  
 RNVNIFKFIIIPNIVKYSPhCKLLIVSNPVDILTYVAWKISGFPKNRVIGSGCNLDSARFRYLMGERLGVH  
 ALSCHGWVLGEHGDSSVPVWSGVNVAGVSLKSLNPELGTADAKEQWKEVHKQVVD SAYEVIKLGKGYT SWA  
 IGLSVADLAESIMKNLRRVHPISTMIKGLYGINEDVFLSVP CILGQNGISDVVKVTLTPEEEARLKK SAD  
 TLWGIQKELQF

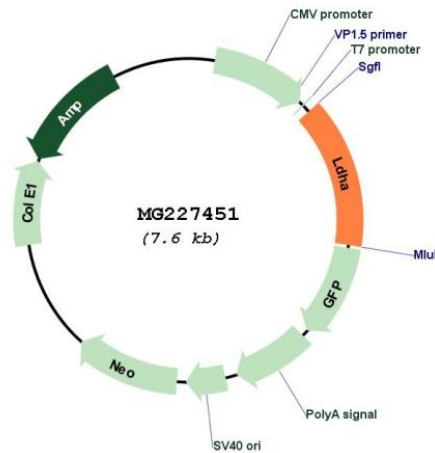
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001136069

<b>ORF Size:</b>	1083 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_001136069.2</a> , <a href="#">NP_001129541.2</a>
<b>RefSeq Size:</b>	1854 bp
<b>RefSeq ORF:</b>	1086 bp
<b>Locus ID:</b>	16828
<b>Cytogenetics:</b>	7 30.6 cM
<b>Gene Summary:</b>	The protein encoded by this gene catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. The protein is found predominantly in muscle tissue and belongs to the lactate dehydrogenase family. Mutations in this gene have been linked to hemolytic anemia and early postimplantation death in mice. Multiple transcript variants encoding different isoforms have been found for this gene. The mouse genome contains multiple pseudogenes of this gene. [provided by RefSeq, May 2013]