

## Product datasheet for **RG228293**

### LDHA (NM\_001165414) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LDHA (NM_001165414) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LDHA
Synonyms:	GSD11; HEL-S-133P; LDHM; PIG19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228293 representing NM_001165414 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTGAACCTCAGGAGGCTATACTTACACCCAAACGTCGATATTCCTTTCCACGCTAAGATTCCTT  
TTGGTTCCAAGTCCAATATGGCAACTCTAAAGGATCAGCTGATTATAATCTTCTAAAGGAACAGAC  
CCCCAGAATAAGATTACAGTTGTTGGGTTGGTCTGTTGGCATGGCCTGTGCCATCAGTATCTTAATG  
AAGGACTTGGCAGATGAACCTGCTCTTGTGATGTCATCGAAGACAAATTGAAGGGAGAGATGATGGATC  
TCCAACATGGCAGCCTTTTCCTTAGAACACCAAAGATTGTCTCTGGCAAAGACTATAATGTAAGTGCAAA  
CTCCAAGCTGGTCAATATCACGGCTGGGCACGTAGCAAGAGGGAGAAAGCCGTCTTAATTTGGTCCAG  
CGTAACGTGAACATCTTTAAATTCATCATTCTAATGTTGTAATAACAGCCGAAGTGCAGTTGCTTA  
TTGTTTCAAATCCAGTGGATATCTTGACCTACGTGGCTTGGAAAGATAAGTGGTTTTCCAAAAACCGTGT  
TATTGGAAGCGGTTGCAATCTGGATTACGCCGATTCCGTTACCTAATGGGGAAAGGCTGGGAGTTCAC  
CCATTAAGCTGTCATGGGTGGTCTTGGGGAACATGGAGATCCAGTGTGCCTGTATGGAGTGGAAATGA  
ATGTTGCTGGTGTCTCTGAAGACTCTGCACCCAGATTTAGGGACTGATAAAGATAAGGAACAGTGGAA  
AGAGTTCCACAAGCAGGTGGTTGAGAGTCTTATGAGGTGATCAAAGTCAAAGGCTACACATCCTGGGCT  
ATTGGACTCTGTAGCAGATTTGGCAGAGAGTATAATGAAGAATCTTAGCGGGTGCACCCAGTTTCCA  
CCATGATTAAGGGTCTTTACGGAATAAAGGATGATGTCTTCCTTAGTGTTCCTTGCAATTTGGGACAGAA  
TGGAATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAAGAGTGCAGAT  
ACACTTTGGGGATCCAAAAGGAGCTGCAATTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228293 representing NM\_001165414  
 Red=Cloning site Green=Tags(s)

MGEPSGGYTYTQTSIFLFHAKIPFGSKSNMATLKDQLIYNLLKKEEQTPQNKITVVGVGAVGMACAISILM  
 KDLADELALVDVIEDKLGEMMDLQHGSFLRTPKIVSGKDYNVTANSKLVIIITAGARQQEGESRLNLVQ  
 RNVNIFKFIIIPNVVKYSPNCKLLIVSNPVDILTYVAWKISGFPKNRVIGSGCNLDSARFRYLMGERLGVH  
 PLSCHGWVLGEHGDSSVPVWSGMNVAGVSLKTLHPDLGTDKDKKEQWKEVHKQVVESAYEVIKLGKGYT  
 SWA IGLSVADLAESIMKNLRRVHPVSTMIGLYGIKDDVFLSVPICILGQNGISDLVKVTLTSEEEARLKK  
 SAD TLWGIQKELQF

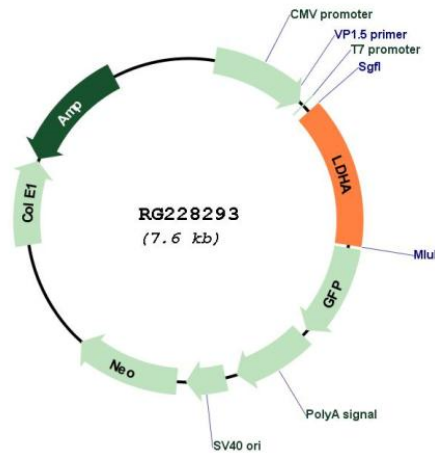
TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001165414

<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_001165414.1</a> , <a href="#">NP_001158886.1</a>
<b>RefSeq Size:</b>	2323 bp
<b>RefSeq ORF:</b>	1086 bp
<b>Locus ID:</b>	3939
<b>UniProt ID:</b>	<a href="#">P00338</a>
<b>Cytogenetics:</b>	11p15.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Cysteine and methionine metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism
<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 exertional myoglobinuria. Multiple transcript variants encoding different isoforms have been found for this gene. The human genome contains several non-transcribed pseudogenes of this gene. [provided by RefSeq, Sep 2008]