

Product datasheet for **MG207410**

L2hgdh (NM_145443) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	L2hgdh (NM_145443) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	L2hgdh
Synonyms:	BC016226
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207410 representing NM_145443
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGCCGACCCTGCGCTACGTAGGCGGTGTCTGCGGACTGGCCCGGACTGCGTGGCTGGGGCTTCC
 TCCGCGCAAGTGGACCGCGTCCGGGGTCCCGGCTACTGTGCGGGGGTGGCCGAGAAGCTCCAGCAC
 CAGCTCTTTTGATATAGTCATCGTTGGAGGTGGAATTGTGGCCTTGCCTCTGCCAGAACGCTCATCCTG
 AAACATCTGGACTTTCGATTGGTGTGGTGGAAAAGGAGAAAGATTTAGCTCTTCACCAGACTGGACACA
 ACAGCGGTGTACACAGTGGTATTTACTATAAACAGAAATCTCTGAAGGCTAAATTGTGTGTAGAAGG
 CGCAGCCCTCATCTATGAGTACTGCAACCTCAAGGGAATCCCTACAGGCAATGTGGCAAGCTAATAGTA
 GCTGTTGAACAAGAAGAAATCCAGACTTCAGGCCTTGTATGAGAGAGGCTGCAGAATGGAGTGAAG
 GCCTGAGGCTGATCCAGCAGGAGGATATAAAAAAGAAGGAGCCGTATTGCAGGGGTCTAATGGCTATTGA
 TTGTCCATACACCGGCATTGTGAACTACCAACAGGTAGCTTTGTCATTTGCCAGGATTTCAAGAAGCA
 GGTGGCTCTATCTTGAGAGATTTGAGGTAAAAGGTATTGAAATAGCTAAAGAAAACCTTCAAGAAGTA
 AAGATGGCATGAACTATCCAATCGCTGTCAAGAACAGCAAGGAAAGGAGATTCGGTGTGCGATATGTTGT
 CACATGTGCTGGTCTTTACTCTGACCGTATTTACAGAGTTGAGTGGCTGCAATCCTGACCCCTCAAATTGTC
 CCATTCGGGGGAGATTACCTGGTCTTAAAGCCAGAAAAGGGCTACCTTGTAAAAGGAAATATTTATCCGG
 TCCCAGACAGCCGGTTTCTTTCTCGGAGTTCACCTTACGCCAGGTTGGATGGCACTATTTGGCTAGG
 GCCTAATGCAGTGCTTGCCTTAAACGGGAAGGTTACAGACCTTTGACTTCGATGCCAGAGATGTTATG
 GAAGTAATCTCAAAGCGGCTTCATTAACCTGGTGTTCAGCATTCTCTTATGGAGTTAATGAAATGT
 ATAAAGCTGTTTCTCAGTGAACAGTGAAGCATCTTCAAAGTTCATTCCTGAAATCACCATCAGCGA
 TGTCTTCGAGGCTCGCTGGAGTACGGGCCAGGCCCTGGACAGAGATGGAAATCTGGTAGAGGATTTT
 GTGTTTGACGGAGGACTGGCGAGATTGCAGACCGCTCCTTCATGTGAGAAATGCGCCTTCGCCTGCTG
 CCACTTCTCCCTGGCAATTTCTAGAATGATAGCAGAGGAAGCACAGCAAAGGTTTAAGTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207410 representing NM_145443
 Red=Cloning site Green=Tags(s)

MWPTLRYVGGVCLARYCVAGGFLRASGPASGVPGLLCGGRRSSSTSSFDIVIVGGGIVGLASARTLIL
 KHPGLSIGVVEKEKDLALHQTHNSGVIHSGIYKPELAKKLCVEGAALIEYCNLKGIPYRQCGKLIV
 AVEQEEIPRLQALYERGLQNGVEGLRLIQQEDIKKKEPYCRGLMAIDCPYTGIVNYQQVALSFAQDFQEA
 GGSILRDFEVKIEIAKENSRSKDGMYPIAVKNSKGKEIRCRYVVTGAGLYSDRISELGCNPDQIV
 PFRGDYLVLPKPEKGYLVKGNIPVPDSRFPFLGVHFTPRLDGTIWLGNVAVLAFKREGYRPFDFDARDVM
 EVILKSGFINLVFQHFSYGVNEMYKACFLSETVKHLQKFIPEITISDVLVLRGPAVRAQALDRDGNLVEDF
 VFDGGTGEIADRVLHVRNAPSPAATSSLAISRMIAEEAQQRFL

TRTRPLE - GFP Tag - V

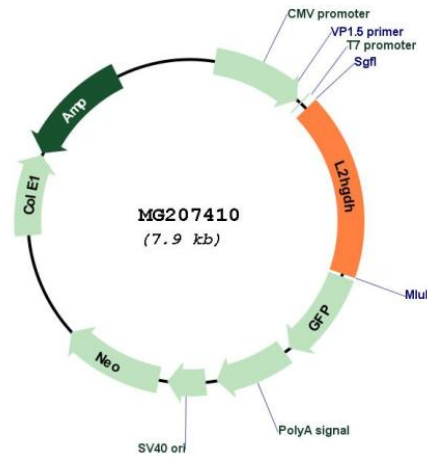
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_145443

ORF Size: 1392 bp

OTI Disclaimer: 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.

Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	<u>NM_145443.1</u> , <u>NP_663418.1</u>
RefSeq Size:	3289 bp
RefSeq ORF:	1395 bp
Locus ID:	217666
UniProt ID:	<u>Q91YP0</u>
Cytogenetics:	12 C2