

Product datasheet for **RR203736**

L2hgdh (NM_001108028) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	L2hgdh (NM_001108028) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	L2hgdh
Synonyms:	RGD1306250
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR203736 representing NM_001108028
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGCCGACTCTCGTTATGTGGGAGGTGTCTGCGGACGGATTGGGTGCAGCGTTGCTGGGGCTTCC
 TCCGCGCTAGCGGGCCGGTGTCCGGGGTCTCGGGCTACTCTGCAGGGGTGGTCGCACTCCAGTACCAG
 CTCATTTGATATAGTCATCGTTGGTGGTGAATTGTGGGCTTGCCTCTGCCAGAACACTCATCCTGAAA
 CATCCCGAACTTTCAATTGGTGTGGTGGAAAAGGAGAAAGATTTGGCTCTTACCAGACTGGACGGAACA
 GTGGTGCATACATAGTGAATTTACTATAAACCCGGAGTCACTGAAAGCTAAATTGTGTGTGAAGGTGC
 AGCCCTCATCTATGAGTACTGTAACTCAAGGGAATCCCTACAGGCAATGTGGCAAGCTAATAGTAGCT
 GTTGAACAAGAAGAAATCCAGACTTCAGGCCCTGTATGAGCGTGGCCTGCAGAATGGAGTCCAAGGCT
 TGAGGCTGATCCAGCAGGAGGATATAAAAAAGAAGGAACCATATTGCAGGGGTCTAATGGCTATTGACTG
 TCCGTACTGGCATTGTGAACACCAACAGGTAGCGTTGTCATTTGCCAGGATTTCCAAGAAGCAGGT
 GGCCTATCTTGAAGATTTTCGAGGTAAAGGATATTGGAATAGCTAAAGAAGACCCTCCAAGAAGTAAGG
 ATGGGATGAAATATCCAATCGCTGTCAAGAATAGTAAGGGAAAGGAAATTCAGTGTGATATGTTGTGAC
 ATGTGCCGGTCTTTACTCAGACCGTATTTAGAGTTGAGTGGCTGCAATCCTGACCCTCAAATGTCCCA
 TTCCGTGGAGATTACCTGGTGTAAAGCCAGAAAAGGGCTACCTTGTAAGGAAATATTTATCCGGTCC
 CGGACAGCCGACTTCCGTTTCTAGGCGTCACTTACACCAAGGCTGGATGGCTCTATTTGGCTCGGGCC
 TAATGCAGTGTTCGCTTTAAACGGGAAGGCTACAGACCCCTTGACTTCAATGCCAGAGATATTATGGAA
 GTAATTTCAAAGTGGTTTCATTAATTTGGTGTCCAGAATTTCTTATGGAGCTAGCGAAATATATA
 AAGCCTGTTTTCTCAGTGAACAGTGAAGCATCTTCAAAGTTCATTCTGAAATCACCAACAGATGT
 ACTTCGAGGCCCTGCTGGAGTGGAGCCAGCCAGCCCTGGACAGAGATGGAATCTGGTGGACGATTTTGTG
 TTTGATGGAGGAGCCGGTGGAGATTGGAGATCGAATTTCTCACGTGAGAAATGCACCTTCGCTGCAGCCA
 CTCTTCCCTGGCAATTTCTAGAATGATAGCAGAGGAAGTGCAGCAGAGGTTTAAGTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203736 representing NM_001108028
 Red=Cloning site Green=Tags(s)

MWPTLRYVGGVCGRIGCSVAGGFLRASGPVSGVLGLLCRGGRSSSTSSFIVIVGGGIVGLASARTLILK
 HPELSIGVVEKEKDLALHQTGRNSGVIHSGIYYKPESLKAKLCVEGAALIYEYCNLKGIPYRQCGKLIVA
 VEQEEIPRLQALYERGLQNGVQGLRLIQQEDIKKKEPYCRGLMAIDCPYTGIVVNYQQVALSFAQDFQEAG
 GSILKDFEVKDIGIAKEDPPRSKDGMYPIAVKNSKGKEIQCRYVVTGAGLYSDRISELSGCNPDPQIVP
 FRGDYLVLKPEKGYLVKGNIPVPDSRLPFLGVHFTPRLDGSIWLGNVLAFAKREGYRPFDFNARDIME
 VILKSGFIKLVFNFSYGASEIYKACFLSETVKHLQKF IPEITNDVLRGPAGVRAQALDRDGNLVDDFV
 FDGGAGEIGDRILHVRNAPSPAATSSLAISRMI AEEVQQRFKL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001108028

ORF Size: 1389 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:

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: [NM_001108028.1](#), [NP_001101498.1](#)

RefSeq Size: 3153 bp

RefSeq ORF: 1392 bp

Locus ID: 314196

Cytogenetics: 6q24

MW: 50.7 kDa