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Product datasheet for RG217631

L2HGDH (NM_024884) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	L2HGDH (NM_024884) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	L2HGDH
Synonyms:	C14orf160; L2HGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG217631 representing NM_024884
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGCCAGCGCTGCGTTATTTGGTTGGTGCCTGCGGACGGGCCCGCGGGCTTTTCGCCGGTGGCTCCC
CTGGGGCGTGCGGGTTCGCGTCTGGGAGGCCAAGACCGCTGTGTGGAGGTAGCCGCAGCGCCAGCACCAG
CTCATTTGATATAGTCATCGTTGGTGGCGGAATTGTGGGGCTTGCCTCTGCCAGAGCACTCATCCTGCGA
CATCCATCACTTTCTATTGGTGTTCTGGAAAAGGAGAAAGATTTAGCTGTTCACCAGACTGGACATAACA
GTGGTGTCATACATAGTGGAATTTATTATAAACCTGAGTCTCTGAAAGCCAAATTATGTGTACAAGGTGC
AGCCCTCCTCTATGAGTACTGTCAGCAAAAGGGGATTTCCTACAAGCAGTGTGGCAAGCTTATAGTAGCT
GTTGAACAAGAAGAAATTCCCAGACTTCAGGCCCTATATGAGAAAGGCCTCCAGAATGGTGTCCCGGGCC
TGAGGCTGATCCAGCAGGAGGATATAAAAAAGAAGGAGCCATATTGTAGGGGTCTAATGGCTATTGATTG
TCCACATACTGGCATTGTGGACTATCGGCAGGTGGCTTTGTCATTTGCCCAGGATTTCCAAGAAGCAGGT
GGCTCTGTCTTGACCAATTTTGAAGTAAAAGGTATTGAAATGGCTAAAGAAAGTCCTTCAAGAAGTATAG
ATGGAATGCAATATCCAATTGTTATAAAGAATACAAAGGGAGAGGAAATTCGATGTCAGTATGTTGTGAC
ATGTGCAGGACTTTACTCAGACCGTATTTCAGAGTTGAGTGGCTGCACTCCTGATCCTCGAATTGTACCA
TTCCGGGGAGATTACCTGCTTTTGAAGCCAGAAAAATGTTATCTTGTAAAAGGAAATATTTATCCGGTCC
CAGATAGCCGGTTTCCTTTCCTAGGAGTTCACTTCACACCAAGGATGGATGGCAGTATTTGGCTAGGGCC
TAATGCAGTTCTTGCCTTTAAACGAGAGGGTTACAGACCCTTTGACTTCAGTGCCACAGATGTTATGGAT
ATAATTATCAATAGTGGCTTGATTAAACTGGCATCCCAGAATTTTTCCTATGGAGTTACTGAAATGTATA
AAGCATGTTTTCTTGGTGCAACAGTGAAGTATCTTCAAAAATTCATCCCTGAAATTACTATCAGTGATAT
ACTTAGGGGCCCAGCTGGAGTAAGAGCCCAGGCCCTGGATAGAGATGGAAATCTGGTAGAAGATTTTGTA
TTTGATGCAGGAGTTGGGGATATTGGAAATCGCATTCTTCATGTGAGAAATGCACCTTCTCCTGCTGCTA
CTTCTTCCATTGCAATTTCTGGAATGATTGCAGATGAAGTACAACAAAGATTTGAATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

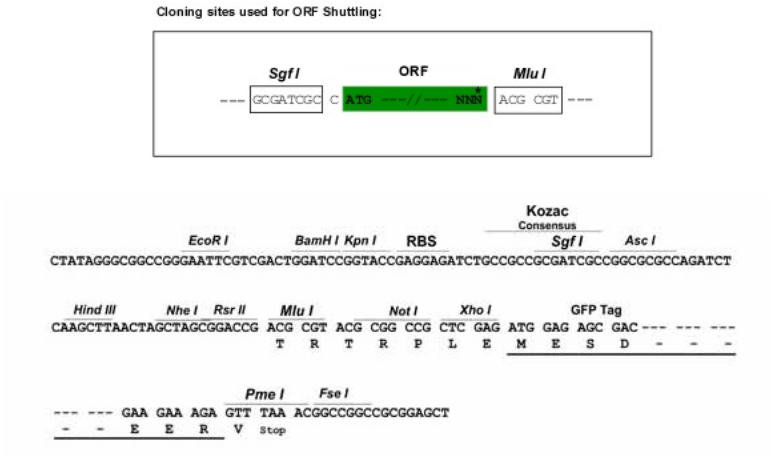
>RG217631 representing NM_024884
Red=Cloning site Green=Tags(s)

MVPALRYLVGACGRARGLFAGGSPGACGFASGRPRPLCGGSRSASTSSFDIVIVGGGIVGLASARALILR
HPSLSIGVLEKEKDLAVHQTGHNSGVIHSGIYYKPESLKAKLCVQGAALLYEYCQQKGISYKQCGKLIVA
VEQEEIPRLQALYEKGLQNGVPGLRLIQQEDIKKKEPYCRGLMAIDCPHTGIVDYRQVALSFAQDFQEAG
GSVLTNFEVKGIEMAKESPSRSIDGMQYPIVIKNTKGEEIRCQYVVTCAGLYSDRISELSGCTPDPRIVP
FRGDYLLLKPEKCYLVKGNIYPVPDSRFPFLGVHFTPRMDGSIWLGPNAVLAFKREGYRPFDFSATDVMD
IIINSGLIKLASQNFSYGVTEMYKACFLGATVKYLQKFIPEITISDILRGPAGVRAQALDRDGNLVEDFV
FDAGVGDIGNRILHVRNAPSPAATSSIAISGMIADEVQQRFEL

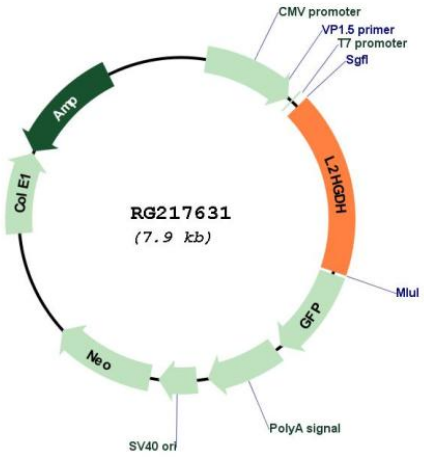
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_024884

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_024884.1, NP_079160.1
RefSeq Size:	2064 bp
RefSeq ORF:	1392 bp
Locus ID:	79944
UniProt ID:	Q9H9P8
Cytogenetics:	14q21.3
Protein Pathways:	Butanoate metabolism
Gene Summary:	This gene encodes L-2-hydroxyglutarate dehydrogenase, a FAD-dependent enzyme that oxidizes L-2-hydroxyglutarate to alpha-ketoglutarate in a variety of mammalian tissues. Mutations in this gene cause L-2-hydroxyglutaric aciduria, a rare autosomal recessive neurometabolic disorder resulting in moderate to severe cognitive disability. [provided by RefSeq, Jul 2008]