

Product datasheet for **RG206631**

LDHD (NM_153486) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LDHD (NM_153486) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LDHD
Synonyms:	DLACD; DLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG206631 representing NM_153486
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCCCGACTGCTCAGGTCTGCAACCTGGGAGCTGTTCCCTGGAGGGGCTACTGCTCCCAGAAGGCAA
 AGGGAGAGCTCTGCAGGGACTTCGTAGAGGCTCTGAAGGCCGTGGTGGGCGGCTCCACGCTGCCACTGC
 CGCGGTGGTCCGAGAGCAGCACGGGCGCGATGAGTCGGTGCACAGGTGCGAACCTCCTGATGCTGTGGT
 TGGCCCCAGAACGTGGAGCAGGTGAGCCGGCTGGCAGCCCTGTGCTATCGCCAAGGTGTGCCATCATCC
 CATTTCGGCACCAGCCGGGCTTGGGGTGGCGTCTGTGCTGTGCAGGGCGGCTCTGCGTTAACCTGAC
 GCATATGGACCGAATCCTGGAGCTGAACCAGGAGGACTTCTGTGGTGGTGGAGCCAGGTGTACCCGC
 AAAGCCCTCAACGCCACCTGCGGGACAGCGCCCTCTGGTTTCCCGTGGACCCAGGCGGGACGCCTCTC
 TCTGTGGCATGGCGGCCACCGGGCGTGGGGACCAACCGGTCCGCTACGGCACCATGCGGGACAACGT
 GCTCAACCTGGAGGTGGTGTGCCGACGGGCGGCTGCTGCACACGGCGGGCCGAGCCGGCATTTCGCG
 TTCCGGTCTGGCCAGAAATCCCTCATCACACAGCCTGGTACTACCTTGTGTGTCCCTGGGACGTAGGA
 AGAGTGCAGCCGGCTAACCTCACGGGCTCTTCGTGGGCTCCGAGGGGACGCTGGGCCTCATCACAGC
 CACCACCTGCGCTGCACCCTGCCCTGAGGCCACAGTGGCCGCCACGTGTGCGTTCCCGAGTGTCCAG
 GCTGCTGTGGACAGCACTGTACACATCCTCCAGGCTGCAGTGCCTGAGCCGCGCATTGAGTTCCTGGATG
 AAGTCATGATGGATGCCTGCAACAGGTACAGCAAGCTGAATTGCTTAGTGGCGCCACACTTCTCTGGA
 GTTCCATGGCTCCAGCAGGCACTGGAGGAGCAGTGCAGCGCACAGAGGAGATAGTCCAGCAGAACGGA
 GCCTCTGACTTCTCTGGCCAAAGGAGGCGGAGGAGCGCAGCCGGCTTTGGACAGCACGGCACAATGCT
 GGTACGCAGCCCTGGCCACGCGCCAGGCTGCAAGGGCTACTCCACGGATGTGTGTGCCATTCCTCCG
 GCTGCCGAGATCGTGGTGCAGACCAAGGAGGATCTGAATGCCTCAGGACTCACAGGAAGCATTGTCCGG
 CATGTGGGTGACGGCAACTTCCACTGCATCCTGTGTTCAACCTGATGACGCCGAGGAAGTGGGACGG
 TCAAGGCTTTTGCAGAACAGTGGGCGGGGCGGCACTGGCTCTCCACGGAACGTGCACGGGGAGCATGG
 CATCGGAATGGGCAAGCGGCAGCTGCTGCAGGAGGAGTGGGCGCGTGGGCGTGGAGACCATGCGGCAG
 CTAAGGCCGTGCTAGACCCCAAGGCCTCATGAATCCAGGCAAAGTGTCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206631 representing NM_153486
 Red=Cloning site Green=Tags(s)

MARLLRSATWELFPWRGYCSQKAKGELCRDFVEALKAVVGGSHVSTAAVVREQHGRRDESIVHRCEPPDAVV
 WPQNVEQVSRLAALCYRQGVPIIPFGTGTLEGGVCAVQGGVCVNLTHMDRILELNQEDFSVVVEPGVTR
 KALNAHLRDSGLWFPVDPGADASLCGMAATGASGTNAVRYGTMRDVNLNLEVVLPDGRLLHTAGRGRHFR
 FGFWPEIPHHTAWYSPCVSLGRRKSAAGYNLTGLFVGSEGLGLITATTLRLHPAPEATVAATCAFPSVQ
 AAVDSTVHILQAAVPVARIIEFLDEVMDACNRYSKLNCLVAPTLFLEFHGSQQALEEQLRTEEIVQQNG
 ASDFSWAKEAEERSRLWTARHNAWYAALATRPCKGYSTDVCPISRLPEIVVQTKEDLNASGLTGSIVG
 HVGDGNFHCILLVNPDDAEELGRVKAFAEQLGRRALALHGTCTGEHGIGMGRQLLQEEVAVGVEVTRMQ
 LKAVLDPQGLMNPQKVL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_153486

ORF Size: 1521 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_153486.3](#), [NP_705690.2](#)

RefSeq Size: 2096 bp

RefSeq ORF: 1524 bp

Locus ID: 197257

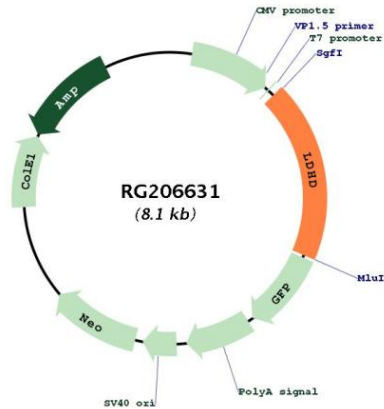
UniProt ID: [Q86WU2](#)

Cytogenetics: 16q23.1

Protein Pathways: Pyruvate metabolism

Gene Summary: The protein encoded by this gene belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family. The similar protein in yeast has both D-lactate and D-glycerate dehydrogenase activities. Alternative splicing occurs at this locus and two transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206631