

Product datasheet for **MG207759**

Ldhd (NM_027570) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ldhd (NM_027570) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ldhd
Synonyms:	4733401P21Rik; D8Bwg1320e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207759 representing NM_027570
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCATGCTCCTTCGGGTGGCCACCCAGAGGCTGTCTCCCTGGAGAGTTTCTGCTCCAGGGGTGCG
 AGGGTGGACTCAGCCAGGACTTTGTGGAGGCTCTGAAGGCAGTTGTAGGGAGCCCCACGTGCCACTGC
 TTCTGCAGTCAGAGAGCAACACGGGCATGATGAATCGATGCACAGGTGTCAACCTCTGATGCTGTGGTT
 TGGCCTCAGAATGTGGACCAGGTCAGCCGAGTGGCAAGCCTGTGCTACAATCAAGGTGTTCCCATCATCC
 CATTGGCACAGGCACCGGTGTTGAGGGGGAGTCTGTGCTGTGCAGGTTGGAGTGTGCATCAACCTGAC
 CCATATGGACCAGATCACGGAGCTGAATACAGAAGACTTCTCCGTGGTGGTGGAGCTGGAGTCAACCGT
 AAAGCTCTCAATACCCACCTGCGTGACAGTGGCCTTTGGTTTCTGTTGACCCAGGCGCAGATGCTTCTC
 TGTGTGGCATGGCAGCCACCGGGCCTCGGGACCAATGCTGTGCGCTATGGAACCATGCGGGACAACGT
 GATTAACCTGGAGGTAGTGTGCTGCTGACGGCAGGCTGCTTACACCGCAGGCCGGGGCCGCCATTACAGG
 AAGAGTGCAGCTGGCTACAATCTCACAGGACTCTTTGTGGGCTCTGAGGGGACCCCTGGGCATCATTACAT
 CAACCACCTGCGCCTGCACCCTGCGCCGGAAGCAACGGTGGCTGCCACCTGTGCGTTCCCCAGTGTTC
 AGCGGCTGTGGACAGCACAGTTCAGATCCTCCAGGCTGCAGTGCCTGGCTCGCATTGAGTTTCTAGAT
 GATGTCATGATGGATGCCTGCAACAGACACAGCAAACCTTAACCTGCCCCGTGGCACCCACGCTTTTCTGG
 AGTTCCACGGTCCCAGCAGACTGGCGGAACAGCTGCAGCGCACAGAGGCAATCACTCAGGATAATGG
 TGGCTCTCACTTCTCTGGGCCAAGGAGGCCGAAAAGCGCAATGAACTTTGGGCAGCGGGCACAATGCT
 TGGTATGCAGCCTTGGCCCTGAGTCCAGGAAGTAAAGCCTATCCACGGACGTGTGTGTACCCATCTCCC
 GGCTGCCAGAGATCTTGGTAGAGACCAAGGAGGAGATTAAGCTTCAAACCTCACAGGACCATCGTTGG
 GCATGTGGGTGATGGCAACTTTCACTGCATCCTCCTGGTCGACCCAGATGATGCAGAGGAGCAGAGGAGG
 GTCAAGGCCTTTGCAGAAAATCTGGGCAGGCGGGCCTGGCACTCGGTGGGACATGCACTGGAGAACATG
 GCATCGGACTGGGCAAGCGACAGCTGCTCAAGAGGAAGTGGGCCCGTGGGCGTGGAGACCATGCGGCA
 GCTCAAAAACACTGGATCCCCGTGGTCTCATGAACCCAGGCAAAGTGCTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207759 representing NM_027570
 Red=Cloning site Green=Tags(s)

MAMLLRVATQRLSPWRSFCSRGSQGLSQDFVEALKAVVGSPhVSTASAVREQHGHDSEMHRCQPPDAVV
 WPQNVDQVSRVASLQYNQGVPIIPFGTGTGVEGGVCAVQGGVCINLTHMDQITELNTEDFSVVVEPGVTR
 KALNTHLRDSSLWFPVDPGADASLQMAATGASGTNAVRYGTMRDNVINLEVVLPDGRLLHTAGRGRHYR
 KSAAGYNLTGLFVQSEGTLGIITSTTLRLHPAPEATVAATCAFPSVQAAVDSTVQILQAAVAVARIEFLD
 DVMMDACNRHSLNCPVAPTLFLEFHGSQQLAEQLQRTEAITQDNGGSHFSWAKEAEKRNELWAARHNA
 WYAALALSPGSKAYSTDVCVPI SRLPEILVETKEEIKASKLTGAI VGHVGDGNFHCILLVDPDDAEEQRR
 VKAFAENLGRRALALGGTCTGEHIGLGRQLLQEEVGPVGVETMRQLKNTLDPRGLMNP GKVL

TRTRPLE – GFP Tag – V

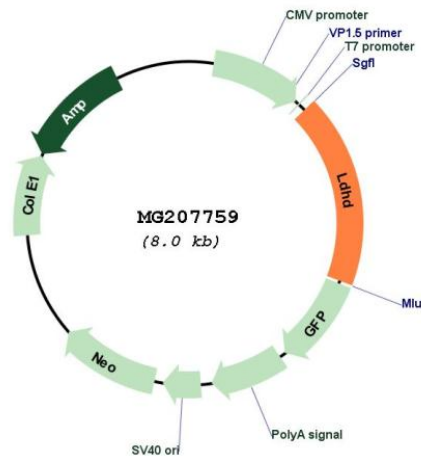
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_027570

ORF Size: 1452 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_027570.4](#)

RefSeq Size: 2235 bp

RefSeq ORF: 1455 bp

Locus ID: 52815

UniProt ID: [Q7TNG8](#)

Cytogenetics: 8 57.98 cM

Gene Summary: Involved in D-lactate, but not L-lactate catabolic process.[UniProtKB/Swiss-Prot Function]