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Product datasheet for MC229303

Ogdh (NM_001252282) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ogdh (NM_001252282) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ogdh
Synonyms:	2210403E04Rik; 2210412K19Rik; AA409584; d1401; mKIAA4192
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229303 representing NM_001252282 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTTCATTTAAGGACTTGTGCTGCTAAGTTAAGGCCATTGACAGCCTCCCAGACTGTTAAGACATTTT CACAAAACAAACCAGCAGCAATTAGGACGTTTCAACAGATTCGGTGCTATTCTGCACCTGTAGCTGCTGA ACCATTTCTTAGTGGGACTAGTTCGAACTATGTGGAGGAAATGTACTGTGCCTGGTTGGAGAATCCCAAA AGTGTACATAAGTCATGGGACATTTTTTTCCGAAACACCAATGCTGGAGCCCCACCGGGCACTGCCTACC AGAGCCCCCTTTCCCTGAGTCGAAGCTCCCTGGCTACCATGGCCCATGCACAGTCCCTGGTGGAAGCACA ACCTAACGTCGACAAACTCGTGGAGGACCACTTGGCGGTGCAGTCTCTCATCAGGGCATATCAGATACGA GGGCACCATGTAGCACAGCTGGACCCCCTGGGGATTTTGGATGCTGATCTGGACTCCTCCGTGCCCGCTG ACATTATCTCATCCACAGACAAACTTGATCTTGCAGTTTTCAAGGAACGACTTCGAATGCTAACAGTAGG AGGGTTCTATGGCCTACACGAGTCTGACCTTGACAAGGTCTTCCACTTACCCACCACCACTTTCATCGGG GGACAGGAGCCAGCACTTCCTCTTCGGGAGATCATCCGTCGGCTGGAGATGGCCTACTGCCAGCACATTG GTGTGGAGTTCATGTTCATTAATGATTTGGAACAATGCCAGTGGATCCGACAGAAGTTTGAGACCCCTGG AATCATGCAGTTCACCAATGAGGAGAAGCGGACCTTGCTGGCCAGGCTTGTACGATCCACCAGGTTTGAG GAGTTCCTACAGCGAAAGTGGTCCTCGGAGAAGCGTTTTGGTCTGGAAGGCTGTGAGGTGCTGATCCCTG CCCTCAAGACAATCATTGATATGTCAAGTGCAAATGGAGTGGACTATGTGATCATGGGGATGCCACACAG AGGACGGCTGAACGTGCTTGCAAATGTCATCAGGAAGGAGCTGGAGCAAATATTCTGTCAGTTTGACTCA AAGCTGGAGGCAGCTGATGAGGGTTCTGGGGACATGAAGTACCACCTGGGCATGTATCACCGCAGGATCA ACCGTGTGACCGACAGAAACATCACTTTGTCCTTGGTGGCTAACCCTTCCCATCTAGAGGCTGCTGACCC TGTCGTGATGGGAAAGACCAAAGCTGAACAGTTCTACTGTGGAGACACTGAAGGGAAAAAGGTGATGTCT ATCCTGCTGCATGGGGATGCTGCTTTTGCTGGCCAGGGCATCGTATATGAGACCTTCCATCTCAGCGACT TGCCGTCCTACACAACCCATGGCACTGTTCATGTGGTTGTCAACAACCAGATTGGCTTCACCACAGACCC TCGGATGGCCCGCTCCTCTCCCTACCCCACTGATGTGGCCCGAGTGGTGAATGCCCCCATTTTCCATGTC AACTCAGATGACCCTGAAGCTGTCATGTATGTATGCAAGGTGGCAGCTGAGTGGAGAAACACCTTCCACA

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AGGATGTTGTAGTTGATCTGGTGTGTTATCGACGAAATGGCCACAATGAGATGGACGAACCTATGTTTAC
ACAGCCACTCATGTACAAGCAGATCCGCAAGCAGAAGCCTGTACTGCAGAAGTATGCAGAATTGCTAGTC
TCCCAGGGTGTCGTCAATCAGCCTGAGTACGAGGAGGAAATCTCCAAGTATGATAAGATCTGTGAGGAAG
CATTTACCAGATCCAAAGATGAGAAGATCTTGCACATCAAGCACTGGCTGGATTCCCCCTGGCCTGGCTT
TTTCACCCTGGATGGACAGCCCAGGAGCATGACCTGCCCCTCCACTGGCCTGGAGGAGGATGTCTTGTTC
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ATCAGGCCCCTTACACTGTATGCAACAGCTCGCTGTCTGAGTACGGTGTCCTGGGCTTTGAGCTGGGCTT
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CAATGATGACCCAGATGTCCTGCCTGACCTGCAGGAAGAAAACTTTGACATCAATCAGCTCTATGACTGC
AACTGGATTGTTGTCAACTGTTCCACCCCTGGCAACTTCTTCCATGTGCTGCGACGACAGATCTTGCTGC
CCTTCCGGAAGCCGTTAATCGTCTTCACTCCCAAATCCCTCCTGCGCCACCCTGAGGCAAGAACTAGCTT
TGACGAGATGCTGCCAGGAACGCACTTCCAGCGTGTGATCCCAGAAAATGGACCTGCAGCTCAGGACCCA
CACAAAGTCAAGAGACTTCTCTTCTGCACTGGGAAGGTGTACTATGACCTCACCCGAGAGCGCAAAGCCA
GGAACATGGAGGAGGAGGTGGCTATTACAAGGATTGAGCAGCTATCACCATTCCCCTTTGACCTCCTGCT
GAAAGAGGCACAGAAGTATCCCAATGCTGAGCTGGCCTGGTGCCAGGAAGAGCACAAGAACCAAGGCTAC
TATGACTATGTCAAGCCAAGACTTCGTACCACCATTGACCGTGCTAAGCCTGTCTGGTATGCTGGCCGAG
ACCCGGCAGCTGCTCCAGCCACTGGCAACAAGAAAACACACCTGACAGAGCTGCAGCGCTTTCTGGACAC
AGCCTTTGACCTGGACGCATTCAAGAAATTCTCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001252282

Insert Size: 3117 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001252282.1, NP_001239211.1

RefSeq Size:	6675 bp
RefSeq ORF:	3117 bp
Locus ID:	18293
UniProt ID:	Q60597
Cytogenetics:	11 A1
Gene Summary:	2-oxoglutarate dehydrogenase (E1) component of the 2-oxoglutarate dehydrogenase complex, which mediates the decarboxylation of alpha-ketoglutarate. The 2-oxoglutarate dehydrogenase complex catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO(2). The 2-oxoglutarate dehydrogenase complex is mainly active in the mitochondrion. A fraction of the 2-oxoglutarate dehydrogenase complex also localizes in the nucleus and is required for lysine succinylation of histones: associates with KAT2A on chromatin and provides succinyl-CoA to histone succinyltransferase KAT2A.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.