

Product datasheet for MC229297

Ogdh (NM_001252283) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ogdh (NM_001252283) 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:	>MC229297 representing NM_001252283 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCATTTAAGGACTTGTGCTGCTAAGTTAAGGCCATTGACAGCCTCCAGACTGTTAAGACATTTT
CACAAAACAAACCAGCAGCAATTAGGACGTTTCAACAGATTCCGGTCTATTCTGCACCTGTAGCTGCTGA
ACCATTTCTTAGTGGGACTAGTTCGAATATGTGGAGGAAATGTACTGTGCCTGGTTGGAGAATCCCAAA
AGTGACATAAGTCATGGGACATTTTTTCCGAAACACCAATGCTGGAGCCCCACCGGGCACTGCCTACC
AGAGCCCCCTTTCCCTGAGTCGAAGCTCCCTGGCTACCATGGCCCATGCACAGTCCCTGGTGAAGCACA
ACCTAACGTGCAAACTCGTGGAGGACCACTGGCGGTGCAGTCTCTCATCAGGGCATATCAGGTCAGG
GGTCACCACATTGCAAACTTGATCCTCTCGGAATTAGTTGTGTAATTTTGTGATGCTCCGGTAACTG
TTTCTTCAAACGTGGATCTTGCAGTTTTCAAGGAACGACTTCGAATGCTAACAGTAGGAGGGTCTATGG
CCTACACGAGTCTGACCTTGACAAGGCTTCCACTTACCACCACCCTTTCATCGGGGGACAGGAGCCA
GCACCTTCTCTTCGGGAGATCATCCGTCGGCTGGAGATGGCCTACTGCCAGCACATTGGTGTGGAGTTCA
TGTTCAATTAATGATTTGGAACAATGCCAGTGGATCCGACAGAAGTTTGAGACCCCTGGAATCATGCAGT
CACCAATGAGGAGAAGCGGACCTTGCTGGCCAGGCTTGTACGATCCACCAGGTTTGAGGAGTTCTACAG
CGAAAGTGGTCTCGGAGAAGCGTTTTGGTCTGGAAGGCTGTGAGGTGCTGATCCCTGCCCTCAAGACAA
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CGTGCTTGCAAAATGTCATCAGGAAGGAGCTGGAGCAAAATATTCTGTGAGTTTGTGCTCAAAGCTGGAGGCA
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ACAGAAACATCACTTTGCTTGGTGGCTAACCTTCCCATCTAGAGGCTGCTGACCCTGCTGATGCGG
AAAGACCAAGCTGAACAGTTCTACTGTGGAGACTGAAGGGAAAAAGGTGATGTCTATCTGCTGCAT
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CAACCCATGGCACTGTTTCATGTGTTTGTCAACAACCAGATTGGCTTACCACAGACCCCTCGGATGGCCCCG
CTCCTCTCCCTACCCACTGATGTGGCCGAGTGGTGAATGCCCCCATTTTCCATGTCAACTCAGATGAC
CCTGAAGCTGTATGTATGTATGCAAGGTGGCAGCTGAGTGGAGAAACACCTTCCACAAGGATGTTGTAG



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TTGATCTGGTGTGTTATCGACGAAATGGCCACAATGAGATGGACGAACCTATGTTTACACAGCCACTCAT
GTACAAGCAGATCCGCAAGCAGAAGCCTGTACTGCAGAAGTATGCAGAATTGCTAGTCTCCCAGGGTGTG
GTCAATCAGCCTGAGTACGAGGAGGAAATCTCCAAGTATGATAAGATCTGTGAGGAAGCATTACCAGAT
CCAAAGATGAGAAGATCTTGACATCAAGCACTGGCTGGATTCCCCTGGCCTGGCTTTTACCCTGGA
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GAGAGCTTGTGACGAACCGGACTGTGGACTGGCCCTGGCAGAGTACATGGCATTGGCTCACTGCTGAA
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ACACTGTATGCAACAGCTCGCTGTCTGAGTACGGTGTCTGGGCTTTGAGCTGGGCTTTGCCATGGCTAG
CCCTAATGCTCTGGTTCTCTGGGAGGCCAGTTTGGTGACTIONCAACAACATGGCAGAGTGCATCATTGAC
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GCCAGGAACGCACCTTCCAGCGTGTGATCCAGAAAATGGACCTGCAGCTCAGGACCCACAAAAGTCAAG
AGACTTCTCTTCTGCACTGGGAAGGTGACTATGACCTCACCCGAGAGCGCAAAGCCAGGAACATGGAGG
AGGAGGTGGCTATTACAAGGATTGAGCAGCTATCACCAATCCCCTTTGACCTCCTGCTGAAAAGAGGCACA
GAAGTATCCCAATGCTGAGCTGGCCTGGTGCCAGGAAGAGCACAAAGAACCAAGGCTACTATGACTATGTC
AAGCCAAGACTTCGTACCACATTGACCGTGCTAAGCCTGTCTGGTATGCTGGCCGAGACCCGGCAGCTG
CTCCAGCCACTGGCAACAAGAAAACACACCTGACAGAGCTGCAGCGCTTCTGGACACAGCCTTTGACCT
GGACGCATTCAAGAAATCTCTTAG
    
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ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001252283
- Insert Size:** 3105 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_001252283.1](#), [NP_001239212.1](#)

RefSeq Size: 6663 bp

RefSeq ORF: 3105 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 (2) has an alternate coding exon, compared to variant 1. The resulting isoform (2) has a shorter and different internal segment, compared to isoform 1. Variants 2, 6 and 7 encode the same isoform (2). 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.