

Product datasheet for MC201038

Ogdh (NM_010956) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ogdh (NM_010956) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ogdh
Synonyms: 2210403E04Rik; 2210412K19Rik; AA409584; d1401; mKIAA4192
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC013670 sequence for NM_010956
GGCGCTTGACACCCGGAGCTCGCGGCCGAGGGTACTTGTGGAAGGCTTCAGGACAAAATGTTTCATTTAA
GGACTTGTGCTAAGTTAAGGCCATTGACAGCCTCCAGACTGTTAAGACATTTTCACAAAACAAC
AGCAGCAATTAGGACGTTTCAACAGATTGGTGCATTCTGCACCTGTAGCTGCTGAACATTTCTTAGT
GGGACTAGTTCGAACTATGTGGAGGAAATGTAAGTGCCTGGTTGGAGAATCCCAAAAGTGTACATAAGT
CATGGGACATTTTTTCCGAAACACCAATGCTGGAGCCCCACCGGCACTGCCTACCAGAGCCCCCTTTC
CCTGAGTCGAAGCTCCCTGGCTACCATGGCCATGCACAGTCCCTGGTGGAGCACAACCTAACGTCGAC
AAACTCGTGGAGGACCACTTGGCGGTGCAGTCTCTCATCAGGGCATATCAGATACGAGGGCACCATGTAG
CACAGCTGGACCCCTGGGGATTTGGATGCTGATCTGGACTCCTCCGTGCCGCTGACATTATCTCATC
CACAGACAACTTGGGTTCTATGGCCTACACGAGTCTGACCTTGACAAGGTCTTCCACTTACCCACCACC
ACTTTCATCGGGGACAGGAGCCAGCACTTCTCTCGGGAGATCATCCGTCCGCTGGAGATGGCCTACT
GCCAGCACATTGGTGTGGAGTTCATGTTTAAATGATTGGAACAATGCCAGTGGATCCGACAGAAGTT
TGAGACCCCTGGAATCATGCAGTTCACCAATGAGGAGAAGCGGACCTTGCTGGCCAGGCTTGTACGATCC
ACCAGGTTTGGAGGTTCTACAGCGAAAGTGGTCTCGGAGAAGCGTTTTGGTCTGGAAGGCTGTGAGG
TGCTGATCCCTGCCCTCAAGACAATCATTGATATGTCAAGTGCAATGGAGTGGACTATGTGATCATGGG
GATGCCACACAGAGGACGGCTGAACGTGCTTGCAAATGTCATCAGGAAGGAGCTGGAGCAAAATTTCTGT
CAGTTTGACTCAAAGCTGGAGGCAGCTGATGAGGGTCTGGGGACATGAAGTACCACCTGGGCATGTATC
ACCGCAGGATCAACCGTGTGACCGACAGAAACATCACTTTGTCTTGGTGGCTAACCCCTCCCATCTAGA
GGCTGCTGACCCTGTCGTGATGGGAAAGACCAAGCTGAACAGTCTACTGTGGAGACACTGAAGGGAAA
AAGGTGATGTCTATCCTGCTGCATGGGGATGCTGCTTTTGTGGCCAGGGCATCGTATATGAGACCTTCC
ATCTCAGCGACTTGCCGCTTACACAACCCATGGCACTGTTTATGTGGTTGTCAACAACAGATTGGCTT
CACCACAGACCCTCGGATGGCCGCTCCTCTCCCTACCCCACTGATGTGGCCGAGTGGTGAATGCCCCC
ATTTTCCATGTCAACTCAGATGACCCTGAAGCTGTGATGTATGTGCAAGGTGGCAGCTGAGTGGAGAA
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ACCTATGTTTACACAGCCACTCATGTACAAGCAGATCCGCAAGCAGAAGCCTGTACTGCAGAAGTATGCA
GAATTGCTAGTCTCCAGGGTGTGTCATCAGCCTGAGTACGAGGAGGAAATCTCCAAGTATGATAAGA
TCTGTGAGGAAGCATTTACCAGATCCAAAGATGAGAAGATCTTGACATCAAGCACTGGCTGGATCCCC



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CTGGCCTGGCTTTTTACCCTGGATGGACAGCCCAGGAGCATGACCTGCCCTCCACTGGCCTGGAGGAG
GATGTCTTGTCCACATTGAAAAGGTGGCCAGCTCTGTACCTGTGGAGAACTTTACTATCCATGGAGGGC
TGAGCCGGATCTTGAAGACCCGACAGAGCTTGTGACGAACCGGACTGTGGACTGGGCCCTGGCAGAGTA
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TCTGCAGATGTGCAATGATGACCAGATGCTCCTGCCTGACCTGCAGGAAGAAAACCTTTGACATCAATCAG
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AACCAAGGCTACTATGACTATGTCAAGCCAAGACTTCGTACCACCATTGACCGTGCTAAGCCTGTCTGGT
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CTTTCTGGACACAGCCTTTGACCTGGACGCATTCAAGAAATCTCTTAGATGCTCCTGGAGTTGATGAGG
CCATGGCCCCATGTCCATGACGCTCTTTGCTTCAACTAAAGAATAGTGCCTCAGCACTGTCCACACG
TCCCTTCGCTGTGCCACACCACCCTGTCTCATAGGAATTAAGTTGTCCACTGCAGTGTGCTCAGCTGCTC
CCGGTACATGCTGCCAGCCTGTGCCGACTTCTCAGGCTGCACACCGTTTATGGAGCCGGAAGGA
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CCAGTGAATCCTCCAGGGTAGGAACAGAACCCTATGTGGCTTCCAGGGTACTAGCACTAGCCCTCGT
CACCCATCAAGTCGACAGATTCAAGGCCAGGAGTGTTCATCTTGTGCTAGGGCCAAGCTGAGAGCTCATGG
AGGAACTATAGCTGCCAGGATTTGGGAGTCATCAGGATGTTGTGTGAATAGAGATTGTCATGGGGTATTT
AGAGGACTTTAGCAGTGTGTTAGTCTAGCCCTGCTACCCTTCTTGGGTTTGGGCTGTATGTGGGAACT
TACCCAGCTACCACGCCTGGAGAGCTTGGCTCTGAGTACGGCCAGAAGCTCCATTGGCTCCCAACGCC
AGGCACTGCTGCCTCTTGGTCTGCTGCCTCTGCTCTCCTGACCCCTCCCAGTCACTTCATTTTCTCTG
TTGTTCCCTTGAACACACAGAAGCTGTTGACGAATCTTTTTTTTGTGTGCCAAGGCAGGTCAAAGCA
GATCAGTGGATAAGAGCAAGTTGCCAAGGAGCCAGCTGCTCCTCCTCCTCTTTTGTGCTCCACTGGG
ACACACCTGATTTATTTATTTGTTAAAAAAAAAAAAAAAAAAAAA
    
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Restriction Sites:

RsrII-NotI

ACCN:

NM_010956

Insert Size:

3072 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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:	<ol style="list-style-type: none">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:	<u>BC013670</u> , <u>AAH13670</u>
RefSeq Size:	4035 bp
RefSeq ORF:	3072 bp
Locus ID:	18293
UniProt ID:	<u>Q60597</u>
Cytogenetics:	11 A1
Gene Summary:	<p>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 CO₂. 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]</p> <p>Transcript Variant: This variant (4) differs in a region of the coding sequence, compared to variant 1. The resulting isoform (3) has a shorter and different internal segment, compared to isoform 1. Variants 3 and 4 encode the same isoform 3. 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.</p>