

Product datasheet for MC229281

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Ogdh (NM_001252288) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Ogdh (NM 001252288) Mouse Untagged Clone

Tag: Tag Free Symbol: Ogdh

Synonyms: 2210403E04Rik; 2210412K19Rik; AA409584; d1401; mKIAA4192

Mammalian Cell

Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Restriction Sites: Sgfl-Mlul

ACCN: NM_001252288

Insert Size: 3060 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.

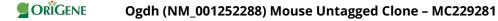
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.





RefSeq: <u>NM 001252288.1, NP 001239217.1</u>

 RefSeq Size:
 6678 bp

 RefSeq ORF:
 3060 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 (5) differs in the 5' UTR exon and lacks an in-frame coding exon, compared to variant 1. The resulting isoform (4) lacks an internal segment, compared to isoform 1. Variants 5 and 9 encode the same isoform (4). 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.