

Product datasheet for MR228156

Oard1 (NM_001289490) Mouse Tagged ORF Clone

Oard1

Product data:

Product Type: Expression Plasmids

Product Name: Oard1 (NM_001289490) Mouse Tagged ORF Clone

Tag: Myc-DDK

Synonyms: Al314976; AW558560

Mammalian Cell Neomycin

Selection:

Symbol:

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

ORF Nucleotide >MR228156 representing NM_001289490
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCCACCGCCTTAATGAAGATCCAGAAGGAAGTCGAATCACTTACGTGAAAGGAGATCTTTTCGCAT GTCCCAAAACAGACTCTCTAGCCCATTGTATCAGTGAGGATTGTCGAATGGGTGCTGGAATAGCTGTTCT CTTCAAGAAGAAGATCCGGAGGGGTGCAGGAACTGTTAAGTCAACAAAAGAAGTCTGGAGAAGTGGCTGTT CTGAAGAGAGATGGGCGATATATATATATTACTTGATTACAAAGAAACGGGCTTCACCACAAGCCAACGTATG AGAACCTACAGAAGATTGGAGGCCATGAAGTCCCATTGTTTGAAGAATGGCGTCACTGACCTCTCCAT GCCCAGGATTGGATGGTCTGGATCGGCTGCAGTGGGAAAATGTATCTGCGATTCTCGAAGAGGTGTTT GAGTCAACAGACATCAAAATTACTGTGTACACACTC

 ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228156 representing NM_001289490

Red=Cloning site Green=Tags(s)

MATRLNEDPEGSRITYVKGDLFACPKTDSLAHCISEDCRMGAGIAVLFKKRFGGVQELLSQQKKSGEVAV LKRDGRYIYYLITKKRASHKPTYENLQKSLEAMKSHCLKNGVTDLSMPRIGCGLDRLQWENVSAILEEVF

ESTDIKITVYTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

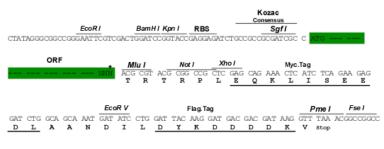
CN: techsupport@origene.cn

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Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001289490

ORF Size: 456 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: <u>NM 001289490.1</u>, <u>NP 001276419.1</u>

RefSeq Size: 1354 bp
RefSeq ORF: 459 bp
Locus ID: 106821
UniProt ID: Q8R5F3



Cytogenetics: 17 C

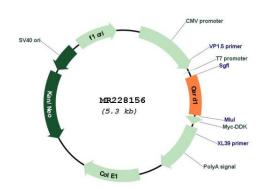
MW: 17.1 kDa

Gene Summary: ADP-ribose glycohydrolase that hydrolyzes ADP-ribose and acts on different substrates, such

as proteins ADP-ribosylated on glutamate and O-acetyl-ADP-D-ribose. Specifically acts as a glutamate mono-ADP-ribosylhydrolase by mediating the removal of mono-ADP-ribose attached to glutamate residues on proteins. Does not act on poly-ADP-ribosylated proteins: the poly-ADP-ribose chain of poly-ADP-ribosylated glutamate residues must by hydrolyzed into mono-ADP-ribosylated glutamate by PARG to become a substrate for OARD1.

Deacetylates O-acetyl-ADP ribose, a signaling molecule generated by the deacetylation of acetylated lysine residues in histones and other proteins. Catalyzes the deacylation of O-acetyl-ADP-ribose, O-propionyl-ADP-ribose and O-butyryl-ADP-ribose, yielding ADP-ribose plus acetate, propionate and butyrate, respectively.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228156