

Product datasheet for **MC225946**

Oard1 (NM_001289491) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids

Tag: Tag Free

Symbol: Oard1

Synonyms: AI314976; AW558560

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >MC225946 representing NM_001289491
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCACCCGCCTTAATGAAGATCCAGAAGGAAGTCAATCACTTACGTGAAAGGAGATCTTTTCGCAT
GTCCAAAACAGACTCTCTAGCCCATTGTATCAGTGAGGATTGTCGAATGGGTGCTGGAATAGCTGTTCT
CTTCAAGAAGAGATTCGGAGGGGTGCAGGAAGTAAAGTCAACAAAAGAAGTCTGGAGAAGTGGCTGTT
CTGAAGAGAGATGGCGATATATATTACTTGATTACAAAGAAACGGGCTTACACAAGCCAACGTATG
AGAACCTACAGAAGAGTTTGGAGGCCATGAAGTCCCATTGTTTGAAGAATGGCGTCACTGACCTCCAT
GCCAGGATTGGATGTGGTCTGGATCGGCTGCAGTGGGAAAATGTATCTGCGATTCTCGAAGAGGTGTT
GAGTCAACAGACATCAAATTACTGTGTACACTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001289491

Insert Size: 459 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001289491.1</u> , <u>NP_001276420.1</u>
RefSeq Size:	1079 bp
RefSeq ORF:	459 bp
Locus ID:	106821
UniProt ID:	<u>Q8R5F3</u>
Cytogenetics:	17 C

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 be 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]

Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 4. Variants 1-5 encode the same protein. 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.