

Product datasheet for **MG201093**

Oard1 (NM_207219) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Oard1 (NM_207219) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Oard1
Synonyms: AI314976; AW558560
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201093 representing NM_207219
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGCCGCCTTAATGAAGATCCAGAAGGAAGTCAATCACTTACGTGAAAGGAGATCTTTTCGCAT
GTCCAAAACAGACTCTCTAGCCATTGTATCAGTGAGGATTGTCGAATGGGTGCTGGAATAGCTGTTCT
CTTCAAGAAGAGATTCGGAGGGTGCAGGAAGTGAAGTCAACAAAAGAAGTCTGGAGAAGTGGCTGTT
CTGAAGAGAGATGGCGATATATATATTACTTGATTACAAGAAACGGGCTTCACACAAGCCAACGTATG
AGAACCTACAGAAGAGTTTGGAGGCCATGAAGTCCCATTGTTGAAGAATGGCGTCACTGACCTCCAT
GCCCAGGATTGGATGTGGTCTGGATCGGCTGCAGTGGGAAAATGTATCTGCGATTCTCGAAGAGGTGTT
GAGTCAACAGACATCAAATTAAGTGTACACACTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201093 representing NM_207219
Red=Cloning site Green=Tags(s)

MASRLNEDPEGSRITYVKGDLFACPKTDSLHCISEDRCMGAGIAVLFKKRFGGVQELLQQKKSQGEVAV
LKRDRYIYYLITKKRASHKPTYENLQKSLKSHCLKNGVTDLSMPRIGCGLDRLQWENVSAILEEVF
ESTDIKITVYTL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

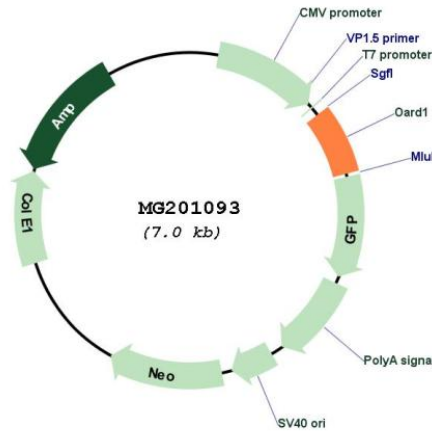


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Cloning Scheme:



Plasmid Map:



ACCN: NM_207219

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:	<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>NM_207219.1</u>
RefSeq Size:	1138 bp
RefSeq ORF:	459 bp
Locus ID:	106821
UniProt ID:	<u>Q8R5F3</u>
Cytogenetics:	17 C
Gene Summary:	<p>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]</p>