OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR228157

Oard1 (NM_001289491) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oard1 (NM_001289491) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oard1
Synonyms:	AI314976; AW558560
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR228157 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACCCGCCTTAATGAAGATCCAGAAGGAAGTCGAATCACTTACGTGAAAGGAGATCTTTTCGCAT
GTCCCAAAACAGACTCTCTAGCCCATTGTATCAGTGAGGATTGTCGAATGGGTGCTGGAATAGCTGTTCT
CTTCAAGAAGAGATTCGGAGGGGTGCAGGAACTGTTAAGTCAACAAAAGAAGTCTGGAGAAGTGGCTGTT
CTGAAGAGAGATGGGCGATATATATATTACTTGATTACAAAGAAACGGGCTTCACACAAGCCAACGTATG
AGAACCTACAGAAGAGTTTGGAGGCCATGAAGTCCCATTGTTTGAAGAATGGCGTCACTGACCTCTCCAT
GCCCAGGATTGGATGTGGTCTGGATCGGCTGCAGTGGGAAAATGTATCTGCGATTCTCGAAGAGGTGTTT
GAGTCAACAGACATCAAAATTACTGTGTACACACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR228157 protein sequence
Red=Cloning site Green=Tags(s)

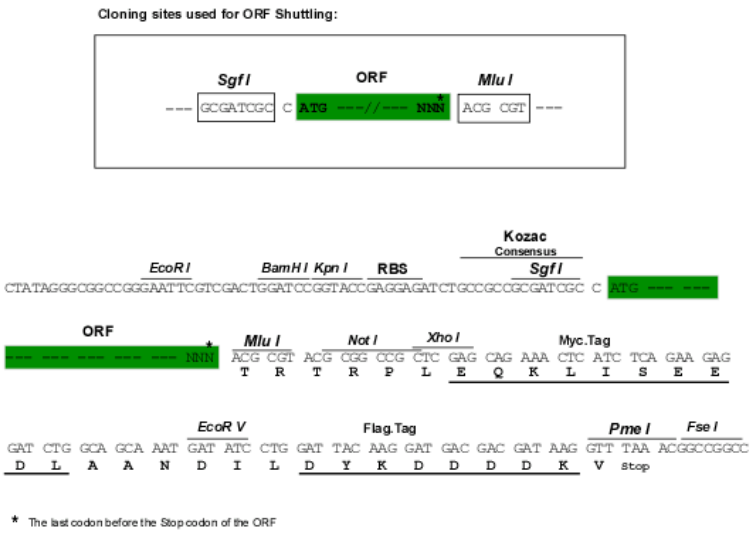
MATRLNEDPEGSRITYVKGDLFACPKTDSLAHCISEDCRMGAGIAVLFKKRFGGVQELLSQQKKSGEVAV
LKRDGRYIYYLITKKRASHKPTYENLQKSLEAMKSHCLKNGVTDLSMPRIGCGLDRLQWENVSAILEEVF
ESTDIKITVYTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



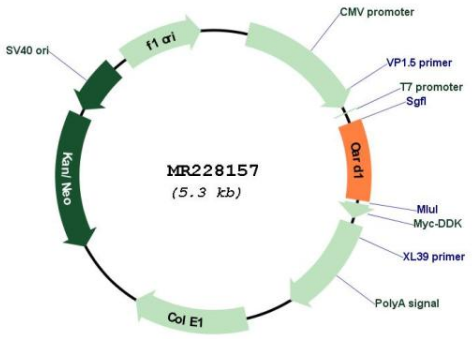
ACCN:	NM_001289491
ORF Size:	456 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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:	NM_001289491.1, NP_001276420.1
RefSeq Size:	1079 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 MR228157