

## Product datasheet for **RC238228**

### PDIA6 (NM\_001282707) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: PDIA6 (NM\_001282707) Human Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: PDIA6  
 Synonyms: ERP5; P5; TXNDC7  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RC238228 representing NM\_001282707  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATCTTAGGTCTGGTGTGAGCTGTACCTTCTTTCTGGCAGTGAATGGTCTGTATTCCTCTAGTGATGATG  
 TGATCGAATTAACCCATCGAATTTCAACCGAGAAGTTATTCAGAGTGATAGTTTGTGGCTGTAGAATT  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC238228 representing NM\_001282707  
Red=Cloning site Green=Tags(s)

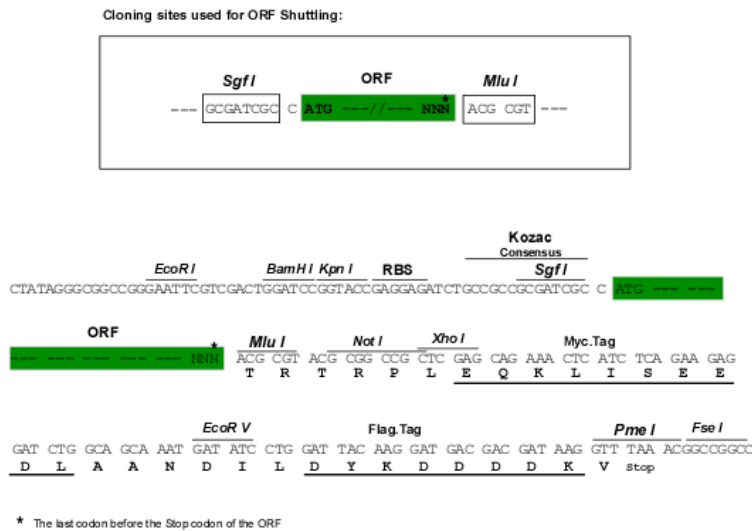
MILGLVSTFFLAVNGLYSSDDVIELTPSNFNREVIQSDSLWLVFYPWCGHCQRLTPEWKAATALK  
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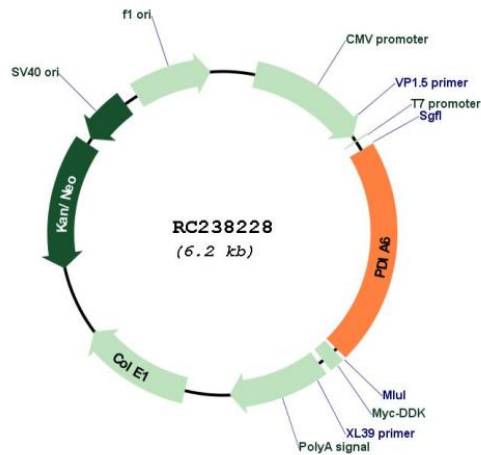
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001282707

<b>ORF Size:</b>	1311 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001282707.1</a> , <a href="#">NP_001269636.1</a>
<b>RefSeq Size:</b>	2527 bp
<b>RefSeq ORF:</b>	1314 bp
<b>Locus ID:</b>	10130
<b>UniProt ID:</b>	<a href="#">Q15084</a>
<b>Cytogenetics:</b>	2p25.1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	48.3 kDa
<b>Gene Summary:</b>	This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The encoded protein has an N-terminal ER-signal sequence, two catalytically active thioredoxin (TRX) domains, a TRX-like domain, and a C-terminal ER-retention sequence. This protein inhibits the aggregation of misfolded proteins and exhibits both isomerase and chaperone activity. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2016]