

## Product datasheet for **RC236264**

### ERP27 (NM\_001300784) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ERP27 (NM\_001300784) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** ERP27  
**Synonyms:** C12orf46; PDIA8  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236264 representing NM\_001300784  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGGAGACTTGCCAGCTGGAATACAGGTAGACAATGAACAACCTGAATTTAGAGGACGAAGACATTG  
AAAGCATTGATGCCACCAAAATTGAGCCGTTTCATTGAGATCAACAGCCTCCACATGGTGACAGAGTACAA  
CCCTGTGACTGTGATTGGTTATTCAACAGCGTAATTCAGATTCATCTCCTCCTGATAATGAACAAGGCC  
TCCCAGAGTATGAAGAGAACATGCACAGATACCGAAGGCAGCCAAGCTCTCCAGGGGAAGATTCTCT  
TTATTCTGGTGGACAGTGGTATGAAAGAAAATGGGAAGGTGATATCATTTTTCAAATAAAGGAGTCTCA  
ACTGCCAGCTTTGGCAATTTACCAGACTCTAGATGACGAGTGGGATACACTGCCACAGCAGAAGTTTCC  
GTAGAGCATGTGCAAACTTTTGTGATGGATTCCTAAGTGGAAAATTGTTGAAAGAAAATCGTGAATCAG  
AAGGAAAGACTCCAAAGGTGGAATC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236264 representing NM\_001300784  
Red=Cloning site Green=Tags(s)

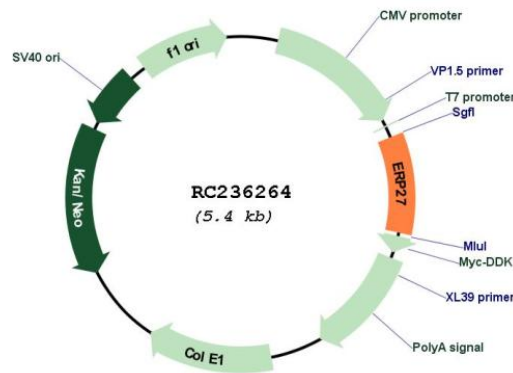
MKETCQLEIQVDNEQLNLEDEDIESIDATKLSRFIEINSLHMVTEYNPVTVIGLFNSVIQIHLILLMNKA  
SPEYEENMHRYQKAAKLFQGKILFILVDSGMKENGKVISFFKLESQLPALAIYQTLDDDEWDTLPTAEVS  
VEHVQNFCDGFLSGKLLKENRESEGKTPKVEL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001300784

**ORF Size:** 516 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.

<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>	<u><a href="#">NM_001300784.1</a></u> , <u><a href="#">NP_001287713.1</a></u>
<b>RefSeq Size:</b>	1388 bp
<b>RefSeq ORF:</b>	519 bp
<b>Locus ID:</b>	121506
<b>UniProt ID:</b>	<u><a href="#">Q96DN0</a></u>
<b>Cytogenetics:</b>	12p12.3
<b>MW:</b>	20.2 kDa
<b>Gene Summary:</b>	This gene encodes a noncatalytic member of the protein disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins. The canonical protein has an N-terminal signal sequence, two thioredoxin (TRX)-like domains and a C-terminal ER-retention sequence. Alternative splicing results in multiple transcript variants encoding distinct isoforms; some of which lack domains present in the canonical protein. [provided by RefSeq, Dec 2016]