

Product datasheet for **RG203511**

ERp19 (TXNDC12) (NM_015913) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ERp19 (TXNDC12) (NM_015913) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TXNDC12
Synonyms: AG1; AGR1; ERP16; ERP18; ERP19; hAG-1; hTLP19; PDIA16; TLP19
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203511 representing NM_015913
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGACGCGCCTCGTCTCGGGCCACCTGTTTGTGGGCTTCAGTTTCCTGCTCCTCGTCATCTCTT
 CTGATGGACATAATGGGCTTGGAAAGGGTTTTGGAGATCATATTCATTGGAGGACACTGGAAGATGGGAA
 GAAAGAAGCAGCTGCCAGTGGACTGCCCTGATGGTGATTATTCATAAATCCTGGTGTGGAGCTTGCAA
 GCTCTAAAGCCAAATTTGCAGAATCTACGAAATTTCAGAACTCTCCATAATTTTGTATGGTAAATC
 TTGAGGATGAAGAGGAACCCAAACATGAAGATTTACGCCCTGACGGGGTTATATCCACGAATCCTTTT
 TCTGGATCCCAGTGGCAAGGTGCATCCTGAAATCATCAATGAGAATGGAAACCCAGCTACAAGTATTTT
 TATGTCAGTGCCGAGCAAGTTGTTACAGGGATGAAGGAAGCTCAGGAAAGGCTGACGGGTGATGCCTTCA
 GAAAGAAACATCTTGAAGATGAATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203511 representing NM_015913
 Red=Cloning site Green=Tags(s)

METRPRLGATCLLGFSLLLVISSDGHNLGKGFGDHWHRTLEDGKKEAAASGLPLMVIHKSWSGACK
 ALKPKFAESTEISELSHNFVMVNLDEDEEPPKHEDFSPDGGYIPRILFLDPSGKVHPEIINENGNPSYKYF
 YVSAEQVQGMKEAQRRLTGDAFRKKHLEDEL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

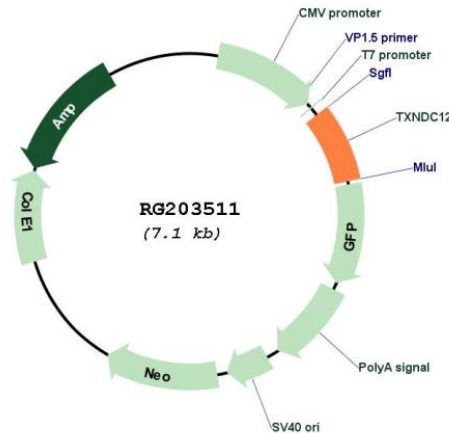


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Cloning Scheme:



Plasmid Map:



ACCN: NM_015913

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.

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_015913.2</u> , <u>NP_056997.1</u>
RefSeq Size:	1616 bp
RefSeq ORF:	519 bp
Locus ID:	51060
UniProt ID:	<u>O95881</u>
Cytogenetics:	1p32.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Glutathione metabolism
Gene Summary:	This gene encodes a member of the thioredoxin superfamily. Members of this family are characterized by a conserved active motif called the thioredoxin fold that catalyzes disulfide bond formation and isomerization. This protein localizes to the endoplasmic reticulum and has a single atypical active motif. The encoded protein is mainly involved in catalyzing native disulfide bond formation and displays activity similar to protein-disulfide isomerases. This protein may play a role in defense against endoplasmic reticulum stress. Alternate splicing results in both coding and non-coding variants. [provided by RefSeq, Mar 2012]