

Product datasheet for RN217786

Itpr1 (NM_001270597) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itpr1 (NM_001270597) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Itpr1
Synonyms:	I145TR; InsP3R; InsP3R1; IP3R1; P400
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN217786 representing NM_001270597 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCTGACAAAATGTCTAGTTTCTACATATCGGAGACATTTGTTCTCTGTATGCAGAGGGATCTACGA
ATGGATTTATCAGCACCTTGGGCTTGGTTGATGACCGTTGCGTTGTACAGCCAGAAGCTGGGACCTTAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001270597
Insert Size: 8130 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).</p>
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001270597.1</u> , <u>NP_001257526.1</u>
RefSeq Size:	9667 bp
RefSeq ORF:	8130 bp
Locus ID:	25262
UniProt ID:	<u>P29994</u>
Cytogenetics:	4q41
Gene Summary:	<p>This gene belongs to the Insp3 receptor family. It encodes an intracellular receptor for inositol 1,4,5-trisphosphate. Upon stimulation by inositol 1,4,5-trisphosphate, this receptor mediates calcium release from the endoplasmic reticulum. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2012]</p> <p>Transcript Variant: This variant (3) lacks three consecutive exons in the coding region, but maintains the reading frame, compared to variant 1. The resulting isoform (3) lacks an internal segment, compared to isoform 1.</p>