

Product datasheet for **RR217790**

Itpr1 (NM_001270596) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Itpr1 (NM_001270596) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Itpr1
Synonyms: I145TR; InsP3R; InsP3R1; IP3R1; P400
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR217790 representing NM_001270596
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RR217790 representing NM_001270596
 Red=Cloning site Green=Tags(s)

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QPA
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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_001270596.1, NP_001257525.1</u>
RefSeq Size:	9739 bp
RefSeq ORF:	8202 bp
Locus ID:	25262
Cytogenetics:	4q41
MW:	311.2 kDa
Gene Summary:	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]