

Product datasheet for **RG22737**

ITPR3 (NM_002224) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITPR3 (NM_002224) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ITPR3
Synonyms:	IP3R; IP3R3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG22737 representing NM_002224. Blue=ORF Red=Cloning site Green=Tag(s)

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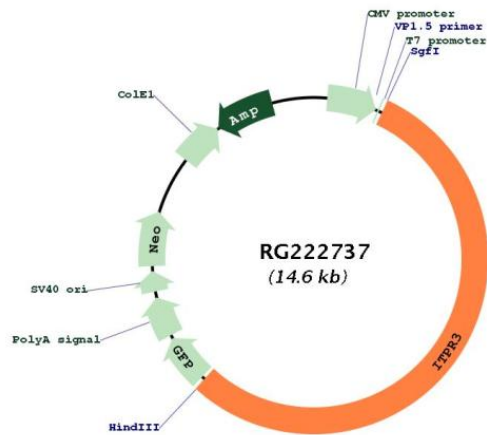
Protein Sequence: >Peptide sequence encoded by RG222737
 Blue=ORF Red=Cloning site Green=Tag(s)

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Restriction Sites: SgfI-HindIII

Cloning Scheme: □

Plasmid Map:



ACCN: NM_002224

ORF Size: 8013 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:	NM_002224.3 , NP_002215.2
RefSeq Size:	9047 bp
RefSeq ORF:	8016 bp
Locus ID:	3710
UniProt ID:	Q14573
Cytogenetics:	6p21.31
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Alzheimer's disease, Calcium signaling pathway, Gap junction, GnRH signaling pathway, Long-term depression, Long-term potentiation, Oocyte meiosis, Phosphatidylinositol signaling system, Taste transduction, Vascular smooth muscle contraction
MW:	304.1 kDa
Gene Summary:	This gene encodes a receptor for inositol 1,4,5-trisphosphate, a second messenger that mediates the release of intracellular calcium. The receptor contains a calcium channel at the C-terminus and the ligand-binding site at the N-terminus. Knockout studies in mice suggest that type 2 and type 3 inositol 1,4,5-trisphosphate receptors play a key role in exocrine secretion underlying energy metabolism and growth. [provided by RefSeq, Aug 2010]