

Product datasheet for **RG234407**

ITPRIP (NM_001272013) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ITPRIP
Synonyms:	bA127L20; bA127L20.2; DANGER; KIAA1754
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG234407 representing NM_001272013
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCATGGGGCTCTTCGCGTGTGTCTGGTGGTGGTACGGCCATCATCAACCACCCGCTGCTGTTCC
 CGCGGGAGAACGCCACAGTCCCCGAGAACGAGGAGGAGATCATCCGCAAGATGCAGGCGCACCAGGAGAA
 GCTGCAGCTGGAGCAGTTGCGCCTGGAGGAGGAGGTGGCTCGGCTGGCGGCCGAAAAGGAGGCACTGGAG
 CAGGTGGCGGAGGAGGGCAGGCAGCAGAACGAGACACGCGTGGCCTGGGACCTCTGGAGCACCTCTGCA
 TGATCCTCTTCTGATGATCGAGGTGTGGCGCAGGACCACGAGGAGGGGCCCTCACCTGAGTGCCTGGG
 CGGTGAGGAGGATGAGCTGCCGCTGGGCTGGGGGGCGCCCCCTTGAGGGCCTCACCTGCCCAACAAGGCC
 ACGCTTGCCCACTTTTATGAGCGCTGCATCCGGGGGGCCACGGCCGATGCAGCCGTACCCGGGAGTTCC
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 GGAGGACTTCATTGGCGTGACAGCATGTACGAGAATGGCAGGTGGACAGGCCACTGCTGTGCCACCTT
 TTCGTGCCCTTACACCCCCGAGCCCTACCGCTTCCACCCAGAGCTCTGGTGTCCGGCCGCTCAGTGC
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 CGGCAAGACCAAGCTCGGGGAAGACATGCTGTGTCTCTGCACGGCAGGAACAGCATGGCGCCTCCCTGC
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 CAGCCTCCAGCACAGACTGGCTCCTGTCTTTGCTGTCTATGAGCGACACTTCTCAGGACGACACTAAA
 GGCAGTGGCCGAGGGCGCTGCCACCTCAGCTGCCTGCAGATAGCATCCTTCTGCTCTCAAGCAGAGC
 CGCCTGACCGGTCCAGCGGGCTCAGCAGCTACCACCTGAAGACGGCCCTACTGCACCTCCTACTCCTCC
 GGCAGGCCGCCGACTGGAAGCGGGGCGAGCTGGACGCTCGTCTGCACGAGTTGCTGTGCTTCTGGAGAA
 GAGCTTGCTCCAGAAGAAGCTCCACCACTTCTTCATCGGCAACCGCAAGGTGCCTGAGGCCATGGGACTC
 CCTGAGGCCGTGCTCAGGGCCGAGCCCTCAACCTCTTCCGGCCCTTCGTCTGCAGCGAAGCCTTTACC
 GTAAGACACTGGACTCCTTCTATGAGATGCTCAAGAATGCCCCAGCGCTCATTAGCGAGTATTCCCTACA
 TGTCCCTCAGACCAGCCTACCCAAAAAGC

AGCGGACCGACGCGTACGCGGCGCTCGAG - GFP Tag - GTTTAA

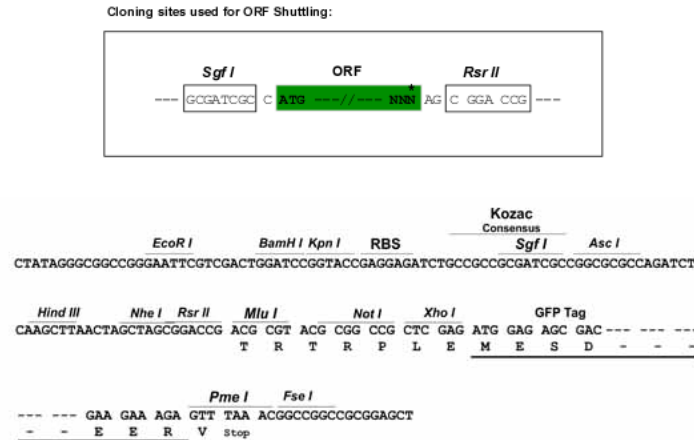
Protein Sequence: >RG234407 representing NM_001272013
 Red=Cloning site Green=Tags(s)

MAMGLFRVCLVVVTAIIINHPLLPRENATVPENEEIIIRKMQAHQEKQLQLRLEEEVARLAAEKEALE
 QVAEEGRQQNETRVAWDLWSTLCMILFLMIEVWRQDHQEGPSPECLGGEDELPLGGAPLQGLTLPNKA
 TLGHFYERCIRGATADAARTREFLEGFVDDLLEALRSLCNRDTMEVEDFIGVDSMYENWQVDRPLLCHL
 FVPFTPEPYRFHPELWCSGRSVPLDRQGYQIKVVRADGDTLSCICGKTKLGEDMLCLHGRNSMAPPC
 GDMENLLCATDSL YLDTMQVMKWFQTALTRAWKGIAHKYEFDLAFQQLDSPGSLKIKFRSGKFMPFNLIIP
 VIQCDDSDLYFVSHLPREPSEGTPASSTDWLLSFAVYERHFLRTTLKALPEGACHLSCLQIASFLLSKQS
 RLTPGSGLSSYHLKTALLHLLLRQAADWKAGQLDARLHELLCFLEKSLQKKLHHFFIGNRKVPEAMGL
 PEAVLRAEPLNLFRRPVLQRSYRKTLSFYEMLNAPALISEYSLHVPDQPTPKS

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001272013

ORF Size: 1641 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:

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.

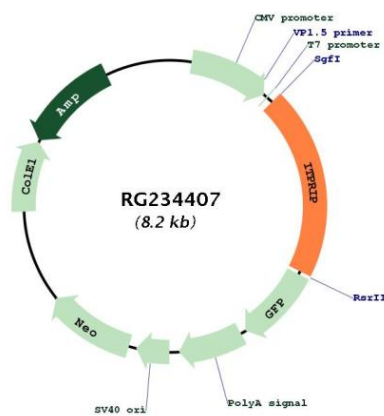
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001272013.2](#)

RefSeq Size: 6633 bp

RefSeq ORF:	1644 bp
Locus ID:	85450
UniProt ID:	Q8IWB1
Cytogenetics:	10q25.1
Gene Summary:	This gene encodes a membrane-associated protein that binds the inositol 1,4,5-trisphosphate receptor (ITPR). The encoded protein enhances the sensitivity of ITPR to intracellular calcium signaling. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]

Product images:



Circular map for RG234407