

Product datasheet for **RG210476**

TRIT1 (NM_017646) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | TRIT1 (NM_017646) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | TRIT1 |
| Synonyms: | COXPD35; GRO1; hGRO1; IPPT; IPT; IPTase; MOD5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG210476 representing NM_017646
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTCCGTGGCGGCTGCACGAGCAGTTCCTGGGAGTGGGCTCAGGGCCTGCAACGGACCCTAC
 CTCTTGTAGTGATTCTCGGGGCCACGGGACCGGCAAATCCACGCTGGCGTTGCAGCTAGGCCAGCGGCT
 CGGCGGTGAGATCGTCAGCGCTGACTCCATGCAGGTCTATGAAGGCCATAGACATCATACCAACAAGGTT
 TCTGCCAAGAGCAGAGAATCTGCCGGCACCACATGATCAGCTTTGTGGATCCTCTTGTGACCAATTACA
 CAGTGGTGGACTCAGAAATAGAGCAACTGCTCTGATTGAAGATATATTTGCCGAGACAAAATTCCTAT
 TGTTGTGGGAGGAACCAATTATTACATTGAATCTCTGCTCTGGAAAGTCTTGTCAATACCAAGCCCCAG
 GAGATGGGCACTGAGAAAGTGATTGACCGAAAAGTGGAGCTTGAAAAGGAGGATGGTCTTGTACTTACA
 AACGCCTAAGCCAGGTGGACCCAGAAATGGCTGCCAAGCTGCATCCACATGACAAACGCAAAGTGGCCAG
 GAGCTTGAAGTTTTTGAAGAAACAGGAATCTCTCATAGTGAATTTCTCCATCGTCAACATACGGAAGAA
 GGTGGTGGTCCCCTTGGAGGTCCTCTGAAGTCTCTAACCCCTTGATCCTTTGGCTTCATGCTGACCAGG
 CAGTTCAGATGAGCGCTTGGATAAGAGGGTGGATGACATGCTTGTCTGCTGGGCTCTTGGAGGAACCTAAG
 AGATTTTACAGACGCTATAATCAGAAGAATGTTTCGAAAAATAGCCAGGACTATCAACATGGTATCTTC
 CAATCAATTGGCTTCAAGGAATTCACGAGTACCTGATCACTGAGGGAAAATGCACACTGGAGACTAGTA
 ACCAGCTTCTAAAGAAAGGATTGAGGCTCTGAAACAAGTAACTAAGAGATATGCCCGGAAAAACAAACCG
 ATGGGTTAAAAACCGTTTTTGGAGCAGACTGGTCCCATTGTCCCCCTGTCTATGGCTTAGAAGTATCT
 GATGTCTCGAAGTGGGAAGAGTCTGTTCTTGAACCTGCTCTTGAATCGTCAAAGTTTCATCCAGGGCC
 ACAAGCTACAGCCACTCAATAAAGATGCCATACAATGAAGCTGAGAACAAGAGAAGTTATCACCTGTG
 TGACCTCTGTGATCGAATCATATTGGGATCGCGAATGGGCAGCGCACATAAAAATCCAAAATCCCCTTG
 AACCAACTGAAGAAAAGAAGATTGGACTCAGATGCTGTCAACACCATAGAAAAGTCAAGAGTGTTCCTCC
 CAGACCATAACAAAGAACCTAAAGAGAAGGGATCCCCAGGGCAGAATGATCAAGAGCTGAAATGCAGCGT
 T

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210476 representing NM_017646
 Red=Cloning site Green=Tags(s)

MASVAAARAVPVGSLRGLQRTLPLVVILGATGTGKSTLALQLGQRLGGEIVSADSMQVVEGLDIITNKV
 SAQEQRICRHHMISFVDPLVTNYTVVDFRNRATALIEDIFARDKIPVIVGGTNYIYESLLWKVLVNTKPQ
 EMGTEKVIDRKVELEKEDGLVLHKRLSQVDEMAAKLHPHDKRKVARSLQVFEETGISHSEFLHRQHTEE
 GGGPLGGPLKFSNPCILWLHADQAVLDERLDRVDDMLAAGLLEELRDFHRRYQKKNVSENSQDYQHGF
 QSIGFKEFHEYLIITEGKCTLETSNQLLKKGIEALKQVTKRYARKQNRWVKNRFLSRPGIIVPPVYGLEVS
 DVSKWEESVLEPALEIVQSF IQGHKPTATPIKMPYNEAENKRSYHLCDLCDRIIIGDREWAHHKSKSHL
 NQLKRRRLDSDAVNTIESQSVSPDHNKEPKKESPGQNDQELKCSV

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2604_d05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_017646

ORF Size: 1401 bp

OTI Disclaimer: 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.

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.

RefSeq: [NM_017646.3](#), [NP_060116.2](#)

RefSeq Size: 2129 bp

RefSeq ORF: 1404 bp

Locus ID: 54802

UniProt ID: [Q9H3H1](#)

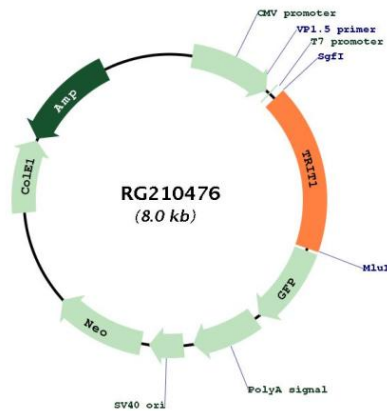
Cytogenetics: 1p34.2

Domains: IPPT, ZnF_U1

Protein Pathways: Metabolic pathways

Gene Summary: This gene encodes a protein that that is targeted to the mitochondrion and modifies transfer RNAs (tRNAs) by adding a dimethylallyl group onto the adenine at position 37. This modification is important for maintaining the correct reading frame during protein translation. This gene is considered a tumor suppressor and its expression can decrease cell growth. Alternative splicing results in multiple transcripts variants, most of which are likely non-functional. [provided by RefSeq, Aug 2015]

Product images:



Circular map for RG210476