

Product datasheet for SC114027

TRIT1 (NM_017646) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIT1 (NM_017646) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRIT1
Synonyms:	COXPD35; GRO1; hGRO1; IPPT; IPT; IPTase; MOD5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_017646, the custom clone sequence may differ by one or more nucleotides

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ATGGCGTCCGTGGCGGCTGCACGAGCAGTTCCTGTTGGCAGTGGGCTCAGGGCCTGCAACGGACCCTAC
CTCTTGTAGTGATTCTCGGGGCCACGGGACCGGCAATCCACGCTGGCGTTGCAGCTAGGCCAGCGGCT
CGGCGGTGAGATCGTCAGCGCTGACTCCATGCAGGTCTATGAAGGCCTAGACATCATCACCACAAGGTT
TCTGCCAAGAGCAGAGAATCTGCCGCCACCACATGATCAGCTTTGTGGATCCTCTTGTGACCAATTACA
CAGTGGTGGACTTCAGAAATAGAGCAACTGCTCTGATTGAAGATATTTGCCCGAGACAAAATTCCTAT
TGTTGTGGGAGGAACCAATTATTACATTGAATCTCTGCTCTGGAAAGTCTTGTCAATACCAAGCCCCAG
GAGATGGGCACTGAGAAAGTGATTGACCGAAAAGTGGAGCTTGAAAAGGAGGATGGTCTTGTACTTCACA
AACGCCTAAGCCAGGTGGACCCAGAAATGGCTGCCAAGCTGCATCCACATGACAAACGAAAGTGGCCAG
GAGCTTGCAAGTTTTTGAAGAAACAGGAATCTCTCATAGTGAATTTCTCCATCGTCAACATACGGAAGAA
GGTGGTGGTCCCCTTGGAGGTCCTCTGAAGTCTCTAACCTTGCATCCTTTGGCTTCATGCTGACCAGG
CAGTCTAGATGAGCGCTTGATAAGAGGGTGGATGACATGCTTGTCTGCTGGGCTCTTGGAGGAATAAG
AGATTTTACAGACGCTATAATCAGAAGAATGTTTCGAAAATAGCCAGGACTATCAACATGGTATCTTC
CAATCAATTGGCTTCAAGGAATTCACGAGTACCTGATCACTGAGGGAAAATGCACACTGGAGACTAGTA
ACCAGCTTCTAAAGAAAGGATTGAGGCTCTGAAACAAGTAACTAAGAGATATGCCCGGAAACAAAACCG
ATGGGTTAAAAACCGTTTTTTGAGCAGACCTGGTCCCATTGCCCCCTGTCTATGGCTTAGAGGTATCT
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ACAAGCCTACAGCCACTCCAATAAAGATGCCATACAATGAAGCTGAGAACAAGAGAAGTTATCACCTGTG
TGACCTCTGTGATCGAATCATCATTGGGGATCGCGAATGGGCAGCGCACATAAAATCCAAATCCCCTTG
AACCAACTGAAGAAAAGAAGAAGATTGGACTCAGATGCTGTCAACACCATAGAAAGTCAGAGTGTTC
CAGACCATAACAAAGAACCTAAAGAGAAGGGATCCCCAGGGCAGAATGATCAAGAGCTGAAATGCAGCGT
TTAA

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5' Read Nucleotide Sequence: >OriGene 5' read for NM_017646 unedited
 TTTTTGTAATACGACTCACTATAGGGCGCCGCGATTTCGGCACGAGGGCAGTTCCCGTGG
 GCAGTGGGCTCAGGGGCTGCAACGGACCCTACCTCTTGTAGTGATTCTCGGGGCCACGG
 GCACCGGCAAATCCACGCTGGCCTTGCAGCTAGGCCAGCGGCTCGGCGGTGAGATCGTCA
 GCGCTGACTCCATGCAGGTCTATGAAGGCTAGACATCATACCAACAAGTTTCTGCC
 AAGAGCAGAGAATCTGCCGGCACCACATGATCAGCTTTGTGGATCCTCTTGTGACCAATT
 ACACAGTGGTGGACTTCAGAAATAGAGCAACTGCTCTGATTGAAGATATATTTGCCCGAG
 AAAAAATTCCTATTGTTGTGGGAGGAACCAATTATTACATTGAATCTCTGCTCTGGAAAG
 TTCTTGTCAATACCAAGCCCCAGGAGATGGGCACTGAGAAAGTATTGACCGAAAAGTGG
 AGCTTGAAAAGGAGGATGGTCTTGTACTTCACAAACGCCTAAGCCAGGTGGACCCAGAAA
 TGGCTGCCAAGCTGCATCCACATGACAAACGCAAAGTGGCCAGGAGCTTGCAAGTTTTTG
 AAGAAACAGGAATCTCTCATAGTGAATTTCTCCATCGTCAACATACGGAAGAAGTGGTG
 GTCCCCTTGGAGGTCTCTGAAGTTCTTAACCCTTGCATCCTTTGGCTTCATGCTGACC
 AGGCAGTTCTAGATGAGCGCTTGGATAAGAGGGTGGATGACATGCTTGTCTGGGCTCT
 TGGAGGAACTAAGAGATTTTACAGACGCTATAATCAGAAGAAATGTTTTCGGAATAGCC
 AGNACTATCAACATGGTATCTTTCCAATCAATGGCTTCAAGGAATTCACGAGTACCTGAT
 CACTGAGGAAATGCCACTGGAGACTAGNTACCAGCTTCTAAGAAAGGTATTGAGCTCTG
 AAAACCACTACTAGAGATATGCCGG

3' Read Nucleotide Sequence: >OriGene 3' read for NM_017646 unedited
 GGACCGCGGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTAAATTTTTTCTT
 TATTTAACTTCAATAAAAAATATAGATTTGTAAGTCAATAGAAAAGACAGCAGTGATAATA
 ACTCACACATGAGCAGCTCGCAAATTTCAAAGTCTTTGGTCTTCAAGTCCTATGTCACAG
 CTTCCTCAGTCTGATTCCCTCCTCTCTGTAGAATTCTGAGAAGTCTTGGTCACTTA
 ATCATCTCAATGGAGATGGCCCTTCTGCCATCACTCAAACTAGAACTCCCAATATG
 TGGCTCACAAACTTTCAGTCATCTACAAAAGCATCTGGAAATTAGATAATTTAGCCAG
 AGTCAGGGACATAAAACTTCTTTAAAGGGATGCAGTCAATCCTGGTATTCACCACAAAGA
 AGATCCTCATGTATAAAATGTGGAATCTGTGCTGCTTTAATAATAGAACCTTTAAGGT
 TCAAAGAAAAAAAAAATGCTTTCCTGAACTACATCATTCCAGACACATCAGCCACACAA
 GGAGCTGACAAGACCTGCTGTTTCTATTATAGAGAAGTGGAGACTTTAAAACCATCAA
 AAGAAAATGGTGGGAGCTTTTCTGCTATGCAGAGAATTCGCATAGCACTCCTTTGGCCA
 GACTGGGAGACAAACATACCCCTCCCTCCTGAACTGGATCCCCACCACCTTTCCAAAGGC
 CACTGGACATGTCTTTAAACGCTGCATTTAGCTCTTGATCATTCTGCCCTGGGGGATC
 CTTCTCTNNTAGTTCTTTGNTATGGTCTGGGAAAACACTCTGACTTCTATGGTGTGA
 CAGCATCTGAGTCCAATCTTCTTTTCTCAGTTGGGTCAAGTGGGATTGGATTTATG
 TGCCTGCCCATCGCCGATCCCATGATGATN

Restriction Sites: NotI-NotI
ACCN: NM_017646
Insert Size: 2200 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](#)

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_017646.1](#), [NP_060116.1](#)

RefSeq Size: 2146 bp

RefSeq ORF: 981 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]

Transcript Variant: This variant (1) encodes the longest functional protein (isoform 1).