

Product datasheet for **SC301727**

CTU2 (NM_001012762) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTU2 (NM_001012762) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTU2
Synonyms:	C16orf84; MFRG; NCS2; UPF0432
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC301727 representing NM_001012762.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTGTCAAGTGGGCGAGGACTACGGGGAGCCGGCGCCTGAGGAGCCGCCCCGGCGCCGGGCCAGC
CGTGAGCAGAAGTGTGTGAAGTGAAGGAAGCGAGCCCGTTGTGGTGATACGAGCCGAGATGCCCTTC
TGCAGGGACTGTTTCAAGGCCTTCTACGTCCACAAGTTCAAGCCATGCTGGGCAAGAACCAGGCTCATC
TTTCCAGGCGAGAAGGTGCTCTTGGCGTGGTCTGGGGGGCCTTCGTCCAGCTCCATGGTCTGGCAGGTT
CTTGAGGGCCTGAGCCAAGATTCTGCCAAAAGACTGCGCTTTGTGGCAGGAGTCACTTTTGTGACGAG
GGAGCAGCCTGTGGCCAGAGCCTAGAGGAGAGATCAAAGACCCTGGCCGAAGTGAAGCCCATCTGCAA
GCAACTGGGTTCCCATGGCATGTGGTGGCCTTAGAGGAGGTGTTACGCTGCCACCGTCGGTGTCTTG
TGCTCTGCCAGGAGCTGGTGGGATCCGAGGGGGCCTACAAGGCGGCCGTGGACAGCTTCCTCCAGCAG
CAGCATGTGCTGGGGGCCGGGGTGGTCTGGCCCGACTCAAGGGGAGGAACAGCCACCCAGCCCCCG
CTGGACCCCAAGAACCTGGCAAGACCGCCTGCCCTGCCAGACTGAGGCTCTTTCCCAACTGTTCTGC
TCAGTGAGGACACTGACTGCCAAGGAGGAGCTTCTGCAGACCCTGCGGACCCACCTGATCCTCCACATG
GCCCCAGCCACGGCTACTCCAAGGTCACTGACTGGGGACAGCTGCACACGCTTGGCTATCAAGCTCATG
ACCAACCTGGCGCTGGGTGAGGGGCCCTTCTGGCCTGGGATACGGGCTTCTCGGATGAGCGGCACGGG
GACGTGGTGGTGGTGGGCCCATGCGGGACACACCCTGAAGGAGGTGCTTTCTACAACCGCCTGTTTC
TCCGTTCTCTTCTGTCTTACACCAGCCGTCGACACCAAGGCCCTGAAAAGGCCAGCATCCACCGGCTG
ATGGAGGCCTTCATCCTCAGGCTGCAGACCCAGTCCCTCCACTGTGACACTGTGTACAGGACAAGT
GAGAAGCTGGTGAAGGGCCCCGGGATGGCCCTGCTGCTGGCGACTCCGGCCCCGCTGCCTCCTCTGC
ATGTGTGCCCTGGACGTCGACGCCGCTGACAGTGCCACGGCTTTTGGGGCTCAGACCTCCTCGGTCTC
TCCAGATGCAGTACCCATCCCCCTGACTGAGACCCGGACACCCCGGGGCCCTGCTGTTCTCCAGGG
GTGGGCTGGGCCAGCGCTGTGGCCAGGGGGCCTGCAGGAGGGAGGACCCCAAGCTGCATTGAGGAG
CAGCTGTGCTACAGCTGCCGCGTGAACATGAAGGACTTGGGCCTGGGGCTTGCAGGAGATCCGGGACTG
TCTGATTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001012762

Insert Size: 1458 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001012762.2](#)

RefSeq Size: 1734 bp

RefSeq ORF: 1458 bp

Locus ID: 348180

UniProt ID: [Q2VPK5](#)

Cytogenetics: 16q24.3

MW: 52.5 kDa

Gene Summary: This gene encodes a protein which is involved in the post-transcriptional modification of transfer RNAs (tRNAs). The encoded protein plays a role in thiolation of uridine residue present at the wobble position in a subset of tRNAs, resulting in enhanced codon reading accuracy. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region and lacks an alternate exon in the 3' coding region, resulting in a frameshift and an early stop codon, compared to variant 3. The encoded isoform 2 is shorter and has a distinct C-terminus, compared to isoform 3.