

Product datasheet for **RG234503**

TARS2 (NM_001271896) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TARS2 (NM_001271896) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TARS2
Synonyms:	COXPD21; TARSL1; thrRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234503 representing NM_001271896
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTGTATCAGAGGTGGCGGTGTCTCCGGCTCCAAGGTTTACAGGCTTGCAGGCTACACACGGCAG
 TTGTGTCGACCCCTCCACGCTGGTTGGCAGAGCGGCTTGGCCTTTTTGAGGAGCTGTGGCTGCTCAGGT
 AAAGAGATTAGCAAGCATGGCACAGAAGGAACCCCGGACTATTAAGATATCACTTCTGGAGGCCAGAAA
 ATTGATGCTGTGGCATGGAACACAACCCCTACCAACTAGCCCGGAGATCAGTTCAACTGTCAGATA
 CTGCAGTGGCTGCTCAAGTGAATGGAGAACCTTATGATCTGGAGCGGCCCTTGGAGACAGATTCTGACCT
 CAGATTTCTGACATTCGATTCGCCAGAGGGAAAGCAGTGTCTGGCACTCCAGCACCCATGCTCTGGGG
 GCAGCAGCTGAACAATTCCTAGGTGCTGTCTCTGCAGAGGTCCAAGTACAGAATATGGCTTTTACCATG
 ATTTCTTCTGGAAAGGAGAGGACAATCCGGGGCTCAGAGCTGCCTGTTTTGGAGCGGATTTGCCAGGA
 ACTTACAGCTGCTGCTCGACCCCTCCGGAGGCTAGAGGCTTACGGGATCAGCTTCGCCAGTTGTTCAAG
 GCTGAGTATGCCCATCGTGGTTTCTCCGAGGTGAAAACCTCCACACTGTTTTCTACGAAGCTCTGGGAAC
 AGTCAGGGCACTGGGAGCATTATCAGGAAGACATGTTTGGCGTGCAGCCCCAGGCTCTGACAGGCTCC
 CAGCTCCCAGAGTACGATTCTACCAGGCATATCACAGATACACTCGCCCTCAAGCCTATGAACTGCCCT
 GCACACTGCCTGATGTTCCGCCACCGGCCAGATCCTGGCGGAACTGCCCTGCGACTAGCTGACTTTG
 GGGCTCTACACCGGGCCGAAGCCTCTGGTGGTCTGGGGGACTGACCCGACTGCGGTGCTTCCAGCAGGA
 TGACGCTCACATCTTCTGTACAACAGATCAGCTGGAAGCAGAGATCCAAAGCTGTCTTGAATTCCTCCGT
 TCCGCTATGCCGTTCTTGGCTTCTCTCCGCTGGCACTGTCCACCGGCCATCTGGCTTCTTGGGG
 ACCCTTGCCCTTTGGACAGGCCAAGCAGTCTTAAACAGGCCCTGAAGGAATTTGGAGAACCCTGGGA
 CCTCAACTCTGGAGATGGTGCCTTCTATGGACCTAAGATTGACGTGCACCTCCACGATGCCCTGGGCCGG
 CCACATCAGTGTGGGACAATTCAGCTTGACTTCCAACCTGCCCTGAGATTTGACCTCCAGTATAAGGGC
 AGGCGGGTGCCTGGAGCGTCCAGTCTCATTACCGAGCAGTGTCTGGTTCTGTGGAAAGACTGTTGGG
 AGTGTGGCAGAAAGCTGCGGGGGGAAATGGCCACTGTGGCTGTCCCGTCCAGGTGGTGGTATCCCT
 GTGGGGAGTGAGCAAGAGGAATACGCCAAAGAGGCACAGCAGAGCCTGCGGGCTGCAGGACTGGTCACTG
 ACCTGGATGCAGACTCTGGACTGACCCCTCAGCCGGAGAATCCGCCGGGCCAGCTTGCCCACTACAATTT
 TCAGTTTGTGGTTGGCCAGAAAGAGCAAAGTAAGAGAACAGTGAACATTCGGACTCGAGATAATCGTCGC
 CTTGGGGAGTGGGACTTGCTGAGGCTGTGCAGCGACTGGTGGAGCTACAGAACACGAGGGTCCCAATG
 CCGAAGAAATTTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234503 representing NM_001271896
 Red=Cloning site Green=Tags(s)

MALYQRWRCLRLQGLQACRLHTAVVSTPPRWLAERLGLFEELWAAQVKRLASMAQKEPRTIKISLPGGQK
 IDAVAWNTTPYQLARQISSTLADTAVAAQVNGEPYDLERPLETDSDLRFLTFDSPEGKAVFWSSTHVLG
 AAAEQFLGAVLCRGPSTEYGFYHDFLKGKERTIRGSELPVLERICQELTAAARPFRRLEASRDQLRQLFK
 AEYAHRGFSEVKTPTLFLSTKLWEQSGHWEHYQEDMFAVQPPGSDRPPSSQSDSTRHITDLALKPMNCP
 AHCLMFHRPRSWRELPLRLADFGALHRAEASGGLGGLTRLRCFQQDDAHIFCTTDQLEAEIQSCLDFLR
 SVYAVLGF SFRLLALSTRPSGFLGDPCLWDQAEQVLKQALKEFGEPWDLNSGDGAFYGPKIDVHLHDALGR
 PHQCGTIQLDFQLPLRFDLQYKQAGALERPVL IHRVAVLGSVERLLGVLAESCCKWPLWLSPPFVVVIP
 VGSEQEEYAKEAQQSLRAAGLVSDLDADSLTLSRRIRRAQLAHYNFQFVVGQKEQSKRTVNIIRTRDNR
 LGEWDLPEAVQRLVELQNTVRPNAEEIF

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001271896

ORF Size: 1764 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.

RefSeq: [NM_001271896.2](#)

RefSeq Size: 2417 bp

RefSeq ORF: 1767 bp

Locus ID: 80222

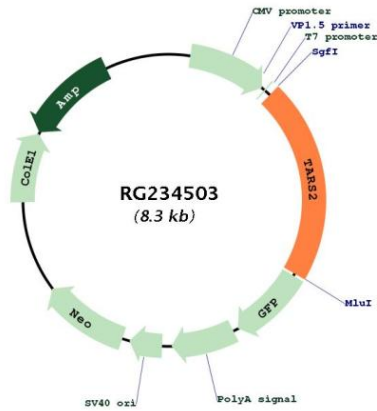
UniProt ID: [Q9BW92](#)

Cytogenetics: 1q21.2

Protein Pathways: Aminoacyl-tRNA biosynthesis

Gene Summary: This gene encodes a member of the class-II aminoacyl-tRNA synthetase family. The encoded protein is a mitochondrial aminoacyl-tRNA synthetase. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 4. [provided by RefSeq, Dec 2012]

Product images:



Circular map for RG234503