

Product datasheet for **RG203395**

TARS2 (NM_025150) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TARS2 (NM_025150) 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:

>RG203395 representing NM_025150
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCTGTATCAGAGGTGGCGGTGTCTCCGGCTCCAAGGTTTACAGGCTTGCAGGCTACACACGGCAG
 TTGTGTCGACCCCTCCACGCTGGTTGGCAGAGCGGCTTGGCCTTTTTGGAGAGCTGTGGCTGCTCAGGT
 AAAGAGATTAGCAAGCATGGCACAGAAGGAACCCCGGACTATTAAGATATCACTTCTGGAGGCCAGAAA
 ATTGATGCTGTGGCATGGAACACAACCCCTACCAACTAGCCCGGCAGATCAGTTCAACTGGCAGATA
 CTGCAGTGGCTGCTCAAGTGAATGGAGAACCTTATGATCTGGAGCGGCCCTTGGAGACAGATTCTGACCT
 CAGATTTCTGACATTCGATTCGCCAGAGGGAAAGCAGTGTCTGGCACTCCAGCACCCATGCTCTGGGG
 GCAGCAGCTGAACAATTCCTAGGTGCTGTCTCTGCAGAGGTCCAAGTACAGAATATGGCTTTTACCATG
 ATTTCTTCTGGAAAGGAGAGGACAATCCGGGGCTCAGAGCTGCCTGTTTTGGAGCGGATTTGCCAGGA
 ACTTACAGCTGCTGCTCGACCCCTCCGGAGGCTAGAGGCTTACGGGATCAGCTTCGCCAGTTGTTCAAG
 GATAACCCCTTTAAGCTTCACTTGATTGAGGAGAAAGTGACAGGTCCAACAGCAACAGTATATGGGTGTG
 GCACATTTGGTTGACCTTTGCCAGGGCCCCACCTTCGGCATACTGGACAGATTGGAGGACTGAAGCTGCT
 ATCGAACTCATATCCTTATGGAGGTCTTCAGGGGCCCCAGAGACTGCAGAGAGTGTGAGGGATTTCC
 TTCCCCACAACAGAAATTGCTGAGGGTCTGGGAAGCATGGAGGGAGGAAGCAGAATTGCGGGACCACCGGC
 GCATTGGGAAGGAACAGGAGCTCTTCTTCCATGAAGTGCAGCCTGGGAGCTGCTTCTTCTGCCACG
 AGGGACAAGGGGTATAATGCACTAGTGGCGTTTATCAGGGCTGAGTATGCCCATCGTGGTTTCTCCGAG
 GTGAAAACCTCCACACTGTTTTCTACGAAGCTCTGGGAACAGTCAAGGCACTGGGAGCATTATCAGGAAG
 ACATGTTTGCCGTGCAGCCCCAGGCTCTGACAGGCCCTCCAGCTCCAGAGTGACGATTCTACCAGGCA
 TATCACAGATACACTCGCCCTCAAGCCTATGAACTGCCCTGCACACTGCCTGATGTTTCGCCACCGGCC
 AGATCCTGGCGGGAAGTGCCTTGCAGTACTGACTTTGGGGCTCTACACCGGGCCGAAGCCTCTGGTG
 GTCTGGGGGACTGACCCGACTGCGGTGCTTCCAGCAGGATGACGCTCACATCTTCTGTACAACAGATCA
 GCTGGAAGCAGAGATCCAAAGCTGTCTTGATTTCTCCGTTCCGTCTATGCCGTTCTTGCTTCTCCTTC
 CGCCTGGCACTGTCCACCCGGCCATCTGGCTTCTGGGGACCCTTGCCTTTGGGACCAGGCCGAACAGG
 TCCTTAAACAGGCCCTGAAGGAATTTGGAGAACCCTGGGACCTCAACTCTGGAGATGGTGCCTTCTATGG
 ACCTAAGATTGACGTGCACCTCCAGGATGCCCTGGCCGGCCACATCAGTGTGGACAATTCAGCTTGAC
 TTCCAACCTGCCCTGAGATTTGACCTCCAGTATAAGGGGCAGGCGGGTGCCTGGAGCGTCCAGTCTCA
 TTCACCGAGCAGTGTCTCGTTCTGTGAAAAGACTGTTGGGAGTGTGGCAGAAAGCTGCGGGGGAAATG
 GCCACTGTGGCTGTCCCCGTTCCAGGTGGTGGTATCCCTGTGGGGAGTGAAGCAAGAGGAATACGCCAAA
 GAGGCACAGCAGAGCCTGCGGGCTGCAGGACTGGTCACTGACCTGGATGCAGACTCTGGACTGACCTCA
 GCCGGAGAATCCGCCGGGCCAGCTTGGCCACTACAATTTTCAAGTTTGTGGTTGGCCAGAAAGAGCAAAG
 TAAGAGAACAGTGAACATTCGGACTCGAGATAATCGTCGCCTTGGGGAGTGGGACTTGCCTGAGGCTGTG
 CAGCGACTGGTGGAGCTACAGAACACGAGGGTCCCAAATGCCGAAGAAATTTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203395 representing NM_025150
 Red=Cloning site Green=Tags(s)

MALYQRWRCLRLQGLQACRLHTAVVSTPPRWLAERLGLFEELWAAQVKRLASMAQKEPRTIKISLPGGQK
 IDAVAWNTTPYQLARQISSLADTAVAAQVNGEPYDLERPLETDSLRLTFDPSPEGKAVFWHSSSTHVLG
 AAAEQFLGAVLCRGPSTEYGFYHDFFLGKERTIRGSELPVLERICQELTAAARPFRRLEASRDQLRQLFK
 DNPFKLHLIEEKVTGPTATVYGCGLVDLCQGPLRHTGQIGGLKLLSNSSSLWRSSGAPETLQRVSGIS
 FPTTELLRVWEAWREEAELRDHRRIGKEQELFFHELSPGSCFFLPRGTRVYNALVAFIRAEYAHRGFSE
 VKTPTLSTKLWEQSGHWEHYQEDMFAVQPPGSDRPPSSQSDSTRHITDTLALKPMNCPAHCLMFHRP
 RSWRELPLRLADFGALHRAEASGGLGGLTRLRCFQDDAHIFCTTDQLEAEIQSCLDFLRSVYAVLGFSS
 RLALSTRPSGFLGDPCLWDQAEQVLKQALKEFGEPWDLNSGDGAFYGPKIDVHLHDALGRPHQCGTIQLD
 FQLPLRFDLQYKQGAGALERPVL IHRAVLGSVERLLGVLAE SCGGKWPLWLSPFQVVVIVGSEQEEYAK
 EAQQSLRAAGLVSDL DADSGTL SRRIRRAQLAHYNFQFVVGQKEQSKRTVNIRTRDNRRLEGEWDLPEAV
 QRLVELQNTRVPNAEEIF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025150

ORF Size: 2154 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_025150.5](#)

RefSeq Size: 2390 bp

RefSeq ORF: 2157 bp

Locus ID: 80222

UniProt ID: [Q9BW92](#)

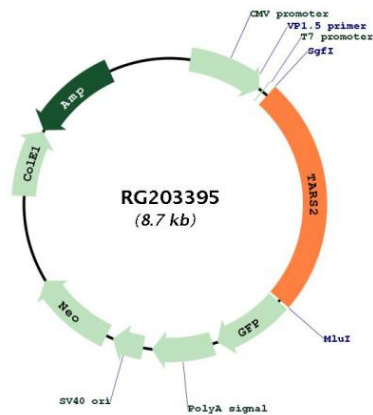
Cytogenetics: 1q21.2

Domains: tRNA-synt_2b, TGS, HGTP_anticonodon

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 RG203395