

## Product datasheet for **RG239169**

### **TARS2 (NM\_001271895) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TARS2 (NM_001271895) 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:**

>RG239169 representing NM\_001271895.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCCCTGTATCAGAGGTGGCGGTGTCTCCGGCTCCAAGGTTTACAGGCTTGCAGGCTACACACGGCA
GTTGTGTGACCCCTCCACGCTGGTTGGCAGAGCGGCTTGGCCTTTTTGAGGAGCTGTGGGCTGCTCAG
GTAAGAGATTAGCAAGCATGGCACAGAAGGAACCCCGACTATTAAGATATCACTTCTGGAGGCCAG
AAAATTGATGCTGTGGCATGGAACACAACCCCTACCAACTAGCCCGGCAGATCAGTTCAACACTGGCA
GATACTGCAGTGGCTGCTCAAGTGAATGGAGAACCTTATGATCTGGAGCGGCCCTTGGAGACAGATTCT
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TACCATGATTTCTTCTGGGAAAGGAGAGGACAATCCGGGGCTCAGAGCTGCCTGTTTTGGAGCGGATT
TGCCAGGAACCTACAGCTGCTGCTGCACCCTCCGGAGGCTAGAGGCTTACAGGGATCAGCTTCGCCAG
TTGTTCAAGGATAACCCCTTAAAGCTTCACTTGATTGAGGAGAAAGTACAGGTCCAACAGCAACAGTA
TATGGGTGTGGCACATTGGTTGACCTTTGCCAGGGCCCCACCTTCGGCATACTGGACAGATTGGAGGA
CTGAAGCTGCTATCGGCTGAGTATGCCCATCGTGGTTTCTCCGAGGTGAAAACCTCCACACTGTTTTCT
ACGAAGCTCTGGGAACAGTCAGGGCACTGGGAGCATTATCAGGAAGACATGTTTGCCGTGCAGCCCCA
GGCTCTGACAGGCCTCCAGCTCCAGAGTGACGATTCTACCAGGCATATCACAGATACACTCGCCCTC
AAGCCTATGAACTGCCCTGCACACTGCCTGATGTTCCGCCACCGGCCAGATCCTGGCGGAACTGCC
CTGCGACTAGCTGACTTTGGGGCTCTACACCGGGCCGAAGCCTCTGGTGGTCTGGGGGACTGACCCGA
CTGGCGTGCTCCAGCAGGATGACGCTCACATCTTCTGTACAACAGATCAGCTGGAAGCAGATGACCAA
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CGGCCATCTGGCTTCTGGGGGACCTTGCCTTTGGGACCAGGCCGAACAGGTCTTAAACAGGCCCTG
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AGCCTGCGGGCTGCAGGACTGGTCACTGACCTGGATGCAGACTCTGGACTGACCCTCAGCCGGAGAATC
CGCCGGGCCAGCTTGCCACTACAATTTTCAGTTTGTGGTTGGCCAGAAAGAGCAAAGTAAAGAAACA
GTGAACATTCGGACTCGAGATAATCGTCCGCTTGGGGAGTGGGACTTGCCTGAGGCTGTGCAGCGACTG
GTGGAGCTACAGAACACGAGGGTCCCAAATGCCGAAGAAATTTTC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG239169  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MALYQRWRCLRLQGLQACRLHTAVVSTPPRWLAERLGLFEELWAAQVKRLASMAQKEPRTIKISLPGGQ
KIDAVAWNTTPYQLARQISSLADTAVAAQVNGEPYDLERPLETDSDLRFLTFDSPEGKAVFWHSSTHV
LGAAAEQFLGAVLCRGPSTEYGFYHDFLKGKERTIRGSELPVLERICQELTAAARPFRRLEASRDQLRQ
LFKDNPFKHLIEEKVTGPTATVYGCGLVDLCQGPLRHTGQIGGLKLLSAEYAHRGFSEVKPTLFS
TKLWEQSGHWEHYQEDMFAVQPPGSDRPPSSQSDSTRHITDTLALKPMNCPAHCLMFAHRPRSWREL
LRLADFGALHRAEASGGLGGLTRLRCFQDDAHIFCTTDQLEAEIQSCLDFLRSVYAVLGF SFRALALST
RPSGFLGDPCLWDQAEQVLKQALKEFGEPWDLNSGDGAFYGPKIDVHLHDALGRPHQCGTIQLDFQLPL
RFDLQYKQGAGALERPVL IHRVAVLGSVERLLGVLAE SCGGKWPLWLSPFQVVVIPPVGEQEEYAKEAQQ
SLRAAGLVSDLADSDGLTL SRRIRRAQLAHYNFQFVVGQKEQSKRTVINIRTRDNRRLGEWDLPEAVQRL
VELQNTRVPAEEIF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
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```

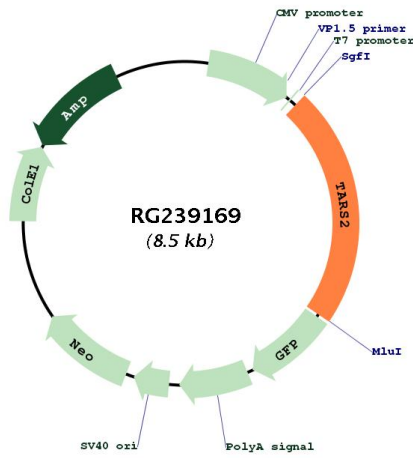
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001271895

ORF Size: 1908 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001271895.2</a>
<b>RefSeq Size:</b>	2561 bp
<b>RefSeq ORF:</b>	1911 bp
<b>Locus ID:</b>	80222
<b>Cytogenetics:</b>	1q21.2
<b>Protein Pathways:</b>	Aminoacyl-tRNA biosynthesis
<b>MW:</b>	71.9 kDa
<b>Gene Summary:</b>	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]