

## Product datasheet for **RC239169**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TARS2 (NM_001271895) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TARS2
Synonyms:	COXPD21; TARSL1; thrRS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RC239169 representing NM\_001271895  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCCTGTATCAGAGGTGGCGGTGTCTCCGGCTCCAAGGTTTACAGGCTTGCAGGCTACACACGGCAG  
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AATGCCGAAGAAATTTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239169 representing NM\_001271895  
 Red=Cloning site Green=Tags(s)

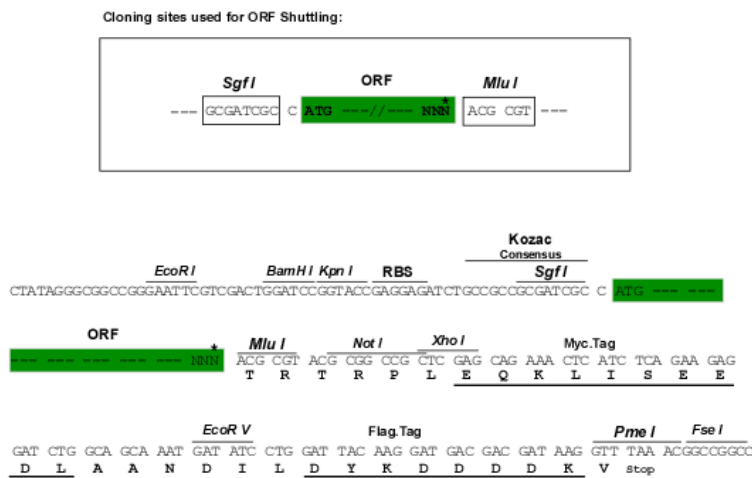
MALYQRWRCLRLQGLQACRLHTAVVSTPPRWLAERLGLFEELWAAQVKRLASMAQKEPRTIKISLPGGQK  
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 EQSGHWEHYQEDMFAVQPPGSDRPPSSQSDDSTRHITDTLALKPMNCPAHCLMF AHRPRSWRELPLRLAD  
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 GQAGALERPVLIHRAVLGSVERLLGVLAE SCGGKWLWLSPFQVVVIVPGSEQEEYAKEAQQSLRAAGLV  
 SLDLADSGGLTSLRRIRRAQLAHYNFQFVVGQKEQSKRTVNI RTRDNRRLGEWDLPEAVQRLVELQNTRVP  
 NAEEIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

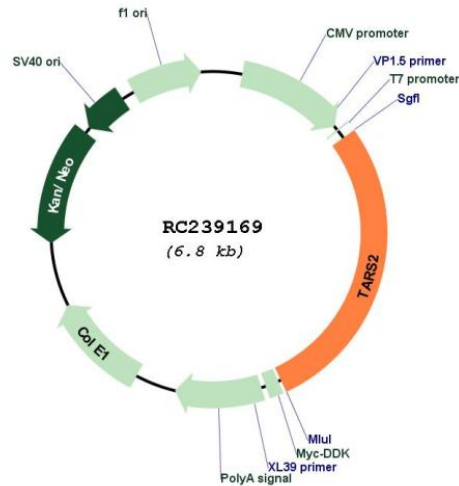
SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN: NM\_001271895

ORF Size: 1908 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\\_001271895.2](#)

RefSeq Size: 2561 bp

RefSeq ORF: 1911 bp

Locus ID: 80222

Cytogenetics: 1q21.2

Protein Pathways: Aminoacyl-tRNA biosynthesis

MW: 71.9 kDa

**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]