

## Product datasheet for **SC332709**

### **TARS1 (NM\_001258438) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TARS1 (NM_001258438) Human Untagged Clone
Tag:	Tag Free
Symbol:	TARS1
Synonyms:	TARS; ThrRS; TTD7
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC332709 representing NM\_001258438.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTTTGAGGAGAAGGCCAGCAGTCCTTCAGGGAAGATGGGAGGCGAGGAGAAGCCGATTGGTGCTGGT
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ACTATCGAGCGGTACAGCAGCTCAAAGAGTTCAGCAGCAACAGGCAGAAGAAGATTTAA
  
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**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001258438

**Insert Size:** 2271 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).

**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\\_001258438.1](#)

**RefSeq Size:** 2974 bp

**RefSeq ORF:** 2271 bp

**Locus ID:** 6897

**UniProt ID:** [P26639](#)

**Cytogenetics:** 5p13.3

**Protein Families:** Druggable Genome

**Protein Pathways:** Aminoacyl-tRNA biosynthesis

**MW:** 86.9 kDa

**Gene Summary:** Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Threonyl-tRNA synthetase belongs to the class-II aminoacyl-tRNA synthetase family [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) contains an alternate in-frame exon compared to variant 1. The resulting protein (isoform 2) is longer compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.