

Product datasheet for **RC234776**

TARS1 (NM_001258437) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TARS1 (NM_001258437) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TARS1
Synonyms:	TARS; ThrRS; TTD7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC234776 representing NM_001258437
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTGAGGAGAAGGCCAGCAGTCCTTCAGGGAAGATGGGAGGCGAGGAGAAGCCGATTGGTGCTGGTG
AAGAGAAGCAAAAAGGAAGGAGGCCAAAAAGAAGCAAAAGAAGGATCTGGAGATGGAGGTCGAGCTGAGTT
GAATCCTTGCCCTGAATATATTTACACACGCTCTTGAGATGTATAATACTAAAAGCAGAACATGATTCC
ATTCTGGCAGAAAAGGCAGAAAAAGATAGCAAGCCAATTAAGTCACTTTGCCTGATGGTAAACAGGTTG
ATGCGGAATCTTGAAAACACTACCCATATCAAATTCCTGTGGAATTAGTCAAGGCTGGCCGACAACAC
CGTTATTGCTAAAGTAAATAATGTTGTGTGGGACCTGGACCGCCCTCGGAAGAAGATTGTACCTGGAG
CTTCTCAAGTTTGAGGATGAGGAAGCTCAGGCAGTGTATTGGCACTCTAGTGCTCACATAATGGGTGAAG
CCATGGAAGAGTCTATGGTGGATGTTTATGCTACGGTCCGCAATAGAAAATGGATTCTATTATGACAT
GTACCTCGAAGAAGGGGTGTGTCTAGCAATGATTTCTCTCTCGGAGGCTTTGTGAAGAAAATCATT
AAAGAAAAACAAGCTTTTGAAAGACTGGAAGTTAAGAAAAGAACTTTACTGGCAATGTTTAAAGTACAACA
AGTTCAAATGCCGGATATTGAATGAAAAGGTGAATACTCCAACACTACCACAGTCTATAGATGTGGCCCTTT
GATAGATCTCTGCCGGGGTCTCATGTTAGACACACGGGCAAAATTAAGGCTTTAAAAATACACAAAAAT
TCCTCCACGACTGGGAAGGCAAGCAGATATGGAGACTCTCCAGAGAATTTATGGCATTTCATTCCCGAG
ATCCTAAAATGTTGAAAGAGTGGGAGAAGTCCAAAGAGGAAGCTAAAAACCGAGATCATAGGAAAATGG
CAGGGACCAAGAAGTATATTTCTTTTCACTGAACTCAGCCCTGGAAGTTGCTTTTTTCTGCCAAAAGGAGCC
TACATTTATAATGCACCTATTGAATTCATTAGGAGCGAATATAGGAAAAGAGGATTCCAGGAGGTAGTCA
CCCCAACATCTTCAACAGCCGACTCTGGATGACCTCGGGCCACTGGCAGCACTACAGCGAGAACATGTT
CTCCTTTGAGGTGGAGAAGGAGCTGTTTGCCCTGAAACCCATGAACTGCCAGGACACTGCCTTATGTTT
GATCATCGGCCAAGGTCCTGGCGAGAAGTGCCTCTGCGGCTAGCTGATTTTGGGGTACTTCATAGGAACG
AGCTGTCTGGAGCACTCACAGGACTCACCCGGTACGAAGATTCCAACAGGATGATGCTCACATATTCTG
TGCCATGGAGCAGATTGAAGATGAAATAAAAGGTTGTTTGGATTTTCTACGTACGGTATATAGCGTATTT
GGATTTTCTTTAACTAAACCTTTCTACTCGCCCGAAAAATTCCTTGGAGATATCGAAGTATGGGATC
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AGCTTTCTATGGCCAAAGATTGACATACAGATTAAGATGCGATTGGGCGTACCACCAGTGTGCAACC
ATCCAGCTGGATTTCCAGTTGCCATCAGATTTAATCTTACTTATGTAAGCCATGATGGTGTATGATAAGA
AAAGGCCAGTGATTGTTTCATCGAGCCATCTGGGATCAGTGGAAGAAGTATTGCTATCCTCACAGAAAA
CTATGGGGCAAAATGGCCCTTTTGGCTGTCCCCTCGCCAGGTAATGGTAGTTCCAGTGGGACCAACCTGT
GATGAATATGCCAAAAGGTACGACAACAATCCACGATGCCAAATTCATGGCAGACATTGATCTGGATC
CAGGCTGTACATTGAATAAAAGATTGCAAAATGCACAGTTAGCACAGTATAAATTCATTTTAGTTGTTGG
TGAAAAAGAGAAAATCAGTGGCACTGTTAATATCCGCACAAGAGACAATAAGGTCCACGGGGAACGCACC
ATTTCTGAAACTATCGAGCGGCTACAGCAGCTCAAAGAGTTCCGCAGCAAAACAGGCAGAAGAAGAATTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234776 representing NM_001258437
Red=Cloning site Green=Tags(s)

MFE EKASSPSGKMGEEKPIGAGEEKQKEGGKKKNKEGSGDGGRAELNPWEYIYTRLEMVYILKAEHDS
 ILAEKAEKDSKPIKVTLPDGKQVDAESWKTPYQIACGISQGLADNTVIAKVNNVVWDLDRPLEEDCTLE
 LLKFEDEEAQAVYWHSSAHIMGEAMERVYGGCLCYGPIIENGFYDMYLEEGVSSNDFSSLEALCKKII
 KEKQAFERLEVKKETLLAMFKYNKFKCRILNEKVNTPTTTVYRCGPLIDLCRGPVHRHTGKIKALKIHK
 SSTYWEKGADMETLQRIYGISFPDPKMLKEWEKQEEAKNRDHRKIGRDQELYFFHELSPGSCFFLPKGA
 YIYNALIEFIRSEYRKRGFQEVVTPNIFNSRLWMTSGHWQHYSENMFSEVEKELFALKPMNCPGHCLMF
 DHRPRSWRELPLRLADFGVLHRNELSGALTGLTRVRRFQQDDAHIFCAMEQIEDEIKGCLDFLRTVYSVF
 GFSFKLNLSTRPEKFLGDIQVWQAEKQLENSLNEFGEKWEKNSGDGAFYGPKIDIQIKDAIGRYHQCAT
 IQLDFQLPIRNLTYVSHDGDKKRPVIVHRAILGVERMIAILTENYGGKWPFWLSPRQVMVVPVGPCT
 DEYAQKVRQQFHDAKFMADIDLDPGCTLNKKIRNAQLAQYNFILVVEKEKISGTVNIRTRDNKVVHGERT
 ISETIERLQQLKEFRSKQAEFEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8112_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001258437

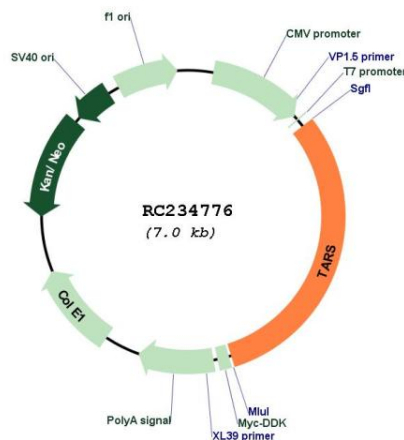
ORF Size: 2169 bp

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:	<ol style="list-style-type: none"> 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:	<u>NM_001258437.1</u> , <u>NP_001245366.1</u>
RefSeq Size:	2701 bp
RefSeq ORF:	2172 bp
Locus ID:	6897
UniProt ID:	<u>P26639</u>
Cytogenetics:	5p13.3
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis
MW:	83.4 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]

Product images:



Circular map for RC234776