

Product datasheet for **RC202140**

TARS1 (NM_152295) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TARS1 (NM_152295) 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:

>RC202140 representing NM_152295
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGAGGAGAAGGCCAGCAGTCCTTCAGGGAAGATGGGAGGCGAGGAGAAGCCGATTGGTGCTGGT
 AAGAGAAGCAAAAGGAAGGAGGCCAAAAGAAGAAACAAAGAAGGATCTGGAGATGGAGGTCGAGCTGAGTT
 GAATCCTTGCCCTGAATATATTTACACACGCTCTTGAGATGTATAATACTAAAAGCAGAACATGATTCC
 ATTCTGGCAGAAAAGGCAGAAAAAGATAGCAAGCCAATTAAGTCACTTTGCCTGATGGTAAACAGGTTG
 ATGCGGAATCTTGAAAACACTACCCATATCAAATGCCTGTGGAATTAGTCAAGGCTGGCCGACAACAC
 CGTTATTGCTAAAGTAAATAATGTTGTGTGGGACCTGGACCGCCCTCGGAAGAAGATTGTACCTGGAG
 CTTCTCAAGTTTGAGGATGAGGAAGCTCAGGCAGTGTATTGGCACTCTAGTGCTCACATAATGGGTGAAG
 CCATGGAAGAGTCTATGGTGGATGTTTATGCTACGGTCCGCAATAGAAAATGGATTCTATTATGACAT
 GTACCTCGAAGAAGGGGTGTGTCTAGCAATGATTTCTCTCTGGAGGCTTTGTGAAGAAAATCATT
 AAAGAAAAACAAGCTTTTGAAAGACTGGAAGTTAAGAAAAGAACTTTACTGGCAATGTTTAAAGTACAACA
 AGTTCAAATGCCGGATATTGAATGAAAAGGTGAATACTCCAACACTACCACAGTCTATAGATGTGGCCCTT
 GATAGATCTCTGCCGGGCTCCTCATGTTAGACACACGGGCAAAATTAAGGCTTTAAAAATACACAAAAAT
 TCCTCCACGACTGGGAAGGCAAGCAGATATGGAGACTCTCCAGAGAATTTATGGCATTTCATCCCAG
 ATCCTAAAATGTTGAAAGAGTGGGAGAAGTCCAAAGAGGAAGCTAAAACCGAGATCATAGGAAAATTGG
 CAGGGACCAAGAAGTATATTTCTTTTCACTGAACTCAGCCCTGGAAGTTGCTTTTTTCTGCCAAAAGGAGCC
 TACATTTATAATGCACCTATTGAATTCATTAGGAGCGAATATAGGAAAAGAGGATTCCAGGAGGTAGTCA
 CCCAAACATCTTCAACAGCCGACTCTGGATGACCTCGGGCCACTGGCAGCACTACAGCGAGAACATGTT
 CTCTTTGAGGTGGAGAAGGAGCTGTTTGCCCTGAAACCCATGAACTGCCAGGACACTGCCTTATGTTT
 GATCATCGGCCAAGGTCCTGGCGAGAAGTGCCTCTGCGGCTAGCTGATTTTGGGTACTTCATAGGAACG
 AGCTGTCTGGAGCACTCACAGGACTCACCCGGTACGAAGATTCCAACAGGATGATGCTCACATATTCTG
 TGCCATGGAGCAGATTGAAGATGAAATAAAAGGTTGTTTGGATTTTCTACGTACGGTATATAGCGTATTT
 GGATTTTCTTTAACTAAACCTTTCTACTCGCCCGAAAAATTCCTTGGAGATATCGAAGTATGGGATC
 AAGCTGAGAAACAACCTGAAAACAGTCTGAATGAATTTGGTAAAAGTGGGAGTTAACTCTGGAGATGG
 AGCTTTCTATGGCCAAAGATTGACATACAGATTAAGATGCGATTGGGCGGTACCACCAGTGTGCAACC
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 CTATGGGGGCAAAATGGCCCTTTTGGCTGTCCCCTCGCCAGGTAATGGTAGTTCCAGTGGGACCAACCTGT
 GATGAATATGCCAAAAGGTACGACAACAATCCACGATGCCAAATTCATGGCAGACATTGATCTGGATC
 CAGGCTGTACATTGAATAAAAAGATTGAAAATGCACAGTTAGCACAGTATAAATTCATTTTAGTTGTTGG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202140 representing NM_152295
Red=Cloning site Green=Tags(s)

MFE EKASSPSGKMGEEKPIGAGEEKQKEGGKKKNKEGSGDGGRAELNPWPEYIYTRLEMYNILKAEHDS
 ILAEKAEKDSKPIKVTL PDGKQVDAESWKTPYQIACGISQGLADNTVIAKVN NVVWDLDRPLEEDCTLE
 LLKFEDEEAQAVYWHSSAHIMGEAMERVYGGCLCYGPIIENGFYDMYLEEGVSSNDFSSLEALCKKII
 KEKQAFERLEVKKETLLAMFKYNKFKCRILNEKVNTPTTTVYRCGPLIDLCRGPVHRHTGKIKALKIHK
 SSTYWEWKADMETLQRIYGISFPDPKMLKEWEKQEEAKNRDHRKIGRDQELYFFHELSPGSCFFLPKGA
 YIYNALIEFIRSEYRKRGFQEVVTPNIFNSRLWMTSGHWQHYSENMF SFEVEKELFALKPMNCPGHLMF
 DHRPRSWRELPLRLADFGVLHRNELSGALTGLTRVRRFQQDDAHIFCAMEQIEDEIKGCLDFLRTVYSVF
 GFSFKLNLSTRPEKFLGDI EVDQAEKQLENSLNEFGEK WELNSGDGAFYGP KIDIQIKDAIGRYHQCAT
 IQLDFQLPIR FNLT YVSHDGD KKR PVI VHRAILG SVERMIAILTENYGGKWPFWLSPRQVMVVPVGP
 TC DEYAQKVRQQFHDAKFMADIDLDPGCTLNKKIRNAQLAQYNF ILV VGEKEKISGT VNI RTRDNK VHGERT
 ISETIERLQQLKEFRSKQAE EEF

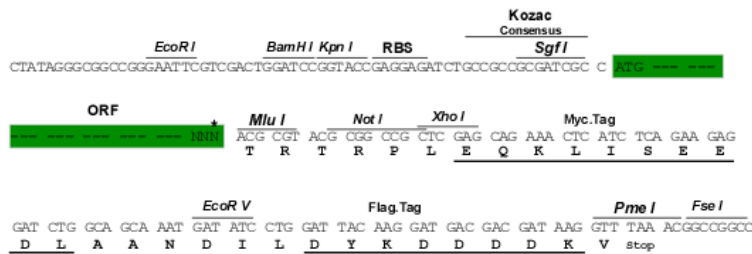
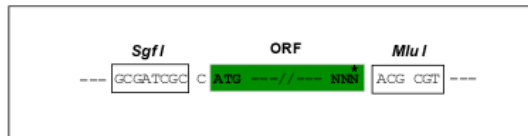
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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_152295

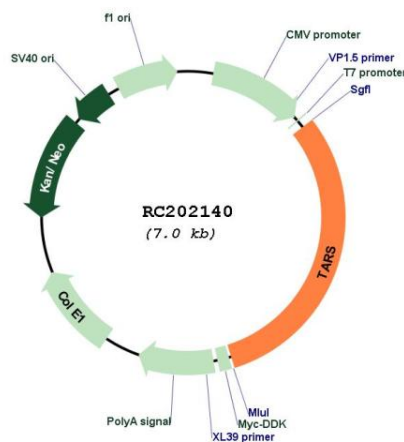
ORF Size: 2169 bp

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:	NM_152295.5
RefSeq Size:	2888 bp
RefSeq ORF:	2172 bp
Locus ID:	6897
UniProt ID:	P26639
Cytogenetics:	5p13.3
Domains:	tRNA-synt_2b, TGS, HGTP_anticondon
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis
MW:	105.8 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 RC202140

