

## Product datasheet for **RN210319**

### Tars (NM\_001006976) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tars (NM_001006976) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tars
Synonyms:	MGC95288
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN210319 representing NM\_001006976  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTCGGAGGAGAAGGCTAGCAGCCCTCGGGGAAGATGGACGGCGAGAAGCCGTTGAATCCCTGGCCGG  
 AGTACATTAACACACGCCTTGATATGTACCACAAGCTCAAAGCAGAGCATTGATCCATCCTGGCTGAAAA  
 GGCAGCAAAGACAGCAAGCCGATTAAAGTCACCTGCCCGACGCAAGCAAGTGGATGCTGAGTCTGG  
 AAAACCACGCCGATCAGATTGCATGTGGCATTAGCCAGGGCCTGGCTGACAACCCGTTGTTGCTAAGG  
 TGAACAAGGTTGTTGGGACCTGGACGCCCGCTGGAGACAGACTGCACTCTGGAGCTGCTCAAGTTTGA  
 GGACGAGGAAGCACAGGCAGTATATTGGCACTCTAGTGCCACATAATGGGTGAGGCCATGGAAAGAGTC  
 TACGGTGGATGCTTATGTTACGGCCCTCAATAGAAAACGGCTTCTATTATGATATGTACCTGAAGAAG  
 GGGGTGTGTCAGCAATGATTTCTTCCCTGGAACTTTGTGTAAGAAAATCATTAAAGAGAAAACAAC  
 TTTTGAAGATTGGAAGTTAAAAAGGAAACATTACTAGAAATGTTCAAGTACAACAAGTTCAAGTCCGG  
 ATATTGAATGAGAAAGTGAATACTCCGACCACGACTGTCTATAGATGTGGCCCTTGATAGATCTCTGCC  
 GTGGTCCCTCACGTCGACACACTGGCAAGATTAAGACTCTGAAAAACACAAGAATTCCTCCACGTA  
 GGAAGGCCAAAGCGGACATGGAACGCTCCAGAGGATTTATGGGATTTTCATCCCCGACCCAACTACTG  
 AAAGAGTGGGAGAAGTTCCAAGAGGAAGCCAAGAACCAGACCATAGGAAGATTGGGCGGACCAAGAAC  
 TATATTTCTTCCACGAACTCAGCCCTGGAAGTTGCTTTTTCTGCCAAAAGGAGCCTACATTTATAATAC  
 ACTGATGGAATTCATCAGGAGTGAATATAGGAAAAGAGGGTCCAGGAGGTCGTACCCCAACATCTTC  
 AATAGCCGGCTCTGGATGACCTTGCCACTGGCAGCACTACAGTGAAAACATGTTCTCCTTTGAGGTGG  
 AGAAGGACGAGTTGCCCTCAAGCCCATGAACTGCCAGGACACTGCCTGATGTTGATCATCGGCCGAG  
 GTCTGGCGAGAGCTGCCCTGCGGTTAGCTGATTTTGGAGTGCTTCACAGGAACGAGCTCTCAGGGGCT  
 CTCACTGGACTCACACGGTCCGAAGATTCACGAGGATGACGCACACATATTCTGTGCCATGGAGCAGA  
 TTGAAGATGAGATCAAAGGTTGTTGGATTTTCTTCGCACGGTATATAGTGTCTTTGGATTTTCATTTAA  
 ACTGAATCTTTCTACTCGCCAGAAAAATTCCTGGGAGATATTGAAATATGGAACCAAGCTGAGAAAACA  
 CTTGAAAACAGTTTGAACGAATTTGGTGAAGTGGGAGCTAAATCCTGGCGATGGAGCCTTCTATGGTC  
 CAAAGATTGATACAGATAAAGGACGCTATTGGCCGCTACCACCAGTGTGCGACCATCCAGCTGGACTT  
 TCAGTTGCCCATCAGTTTAACTCACTTACGTCAGCCATGATGGCGACGATAAGAAGAGGCCAGTGATC  
 GTTCACCGAGCCATCCTGGGGTCACTGGAGAGAATGATTGCCATCCTCACGAAAACATATGGGGCAAA  
 GGCTTTCTGGCTCTCTCTCGCCAGGTGATGGTGGTCCAGTGGGACCGACCTGTGATGAATATGCCCA  
 AAAGGTACGGCAAGAATTCACGATGCTAAGTTCATGGTGGACATTGACCTGGATCCAGGCTGTACCTTG  
 AATAAGAAGATCAGAAATGCACAGTTGGCAGAGTAACTTCATCCTTGTGTTGGTGAAGAAAGAGAAAG  
 CAGTGGCACTGTGAACATCCGCACGAGAGACAACAAGTCCACGGAGAGCGGACTGTGGGGGAAACAGT  
 GGAGCGGCTGCAGCAGCTCAAGCAGTTGCGCAGTAAGCAGGCAGAGGAGGAGTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001006976
- Insert Size:** 2088 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\\_001006976.1](#), [NP\\_001006977.1](#)

**RefSeq Size:** 2454 bp

**RefSeq ORF:** 2088 bp

**Locus ID:** 294810

**UniProt ID:** [Q5XHY5](#)

**Cytogenetics:** 2q16

**Gene Summary:** Catalyzes the attachment of threonine to tRNA(Thr) in a two-step reaction: threonine is first activated by ATP to form Thr-AMP and then transferred to the acceptor end of tRNA(Thr). Also edits incorrectly charged tRNA(Thr) via its editing domain, at the post-transfer stage. [UniProtKB/Swiss-Prot Function]