

Product datasheet for **MC202075**

Tars (NM_033074) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tars (NM_033074) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tars
Synonyms:	D15Wsu59e; ThrRS
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC055371 sequence for NM_033074
 AAGAGGTAATCCGGCACGCGCAGTGCAGGAAATTGTAGGTCTACACCGCCGGCTTGGGGTCTTCTCTGCGGT
 GCAGCTCACGGGTTTTGTCTCTCTGTGGTCTTCCATGTCGCAGGAGAAGGCTAGCAGCCCTTCGGGGAA
 GATGGACGGCGAGAAGCCGGTGGATGCCAGCGAGGAGAAGCGGAAAGAAGGAGGCAAGAAGAAGAGCAAA
 GATGGAGGTGGAGATGGAGGTCGAGCAGAGTTGAATCCCTGGCCTGAATACATTAACACACGCCTTGATA
 TGTACAACAACTCAAAGCAGAACACGATTCTATCCTGGCCGAAAAGGCAGCAAAAGATAGCAAGCCGAT
 TAAAGTCACCCCTGCCTGACGGCAAGCAGGTGGATGCGGAGTCTTGAAAACACGCGGTATCAGATTGCT
 TGTGGAATTAGTCAGGGCCTGGCTGACAACACCGTTGTTGCTAAGGTGAACAAAGTCGTTTTGGGACCTGG
 ACCGCCCGCTGGAGACAGATTGCACGTTGGAGCTGCTCAAGTTTGGAGACGAGGAAGCGCAGGCCGTATA
 CTGGCACTCCAGTGCCACATAATGGGCGAGGCCATGGAGAGAGTCTATGGCGGATGTCTATGTTACGGC
 CCACCAATAGAAAACGGCTTCTATTATGATATGTACCTTGAAGAAGGGGGCGTGTCCAGCAATGACTTCT
 CTTCCCTGAAAACCTTTGTGCAAGAAAATCATTAAAGAGAAAACAACTTTCGAAAGATTGGAAGTTAAAA
 GGAACATTACTAGAAATGTTTAAAGTACAACAAGTTCAAGTGCCGGATATTGAATGAGAAAGTGAATACT
 CCGACCACGACTGTCTACAGATGTGCCCTCTGATAGATCTCTGCCGGGGTCTCATGTCCGACACACCG
 GCAAGATTAAGACTTTGAAGATACACAAGAATTCTCCACGTACTGGGAAGGCAAAGCAGACATGGAGAC
 GCTCCAGCGGATCTATGGCATTTCATTCCCTGACCCCAAGCTACTGAAAGAGTGGGAGAAGTTCCAAGAG
 GAAGCCAAAAACCGAGACTACAGGAAAACCGGGAGGGACCAAGAACTATATTTCTTCCATGAACTTAGCC
 CTGGAAGTTGCTTTTTCTGCCCAGGAGCCTACATTTATAATACACTAATGGAATTTATCAGGAGTGA
 ATATAGGAAAAGAGGGTTCAGGAGGTCGCTACTCCCAACATCTTCAATAGCCGGCTCTGGATGACCTCT
 GGCCACTGGCAGCACTACAGCGAGAACATGTTCTCCTTTGAGGTGGAGAAGGAGCAGTTTGCCTTAAGC
 CCATGAACTGCCCCGGACACTGCCTGATGTTGATCACCAGGACAGGTCCTGGCGAGAGCTGCCCTGCG
 GCTAGCTGACTTTGGTGTGCTGCATAGGAATGAGCTCTCGGGGGTCTCACCGGGCTCACACGGGTCGGA
 AGATTCCAGCAGGATGACGCACACATCTTCTGTGCCATGGAGCAGATTGAAGTGAATCAAAGTTGTT
 TGGATTTTCTTCGCACAGTATATAGTGTCTTTGGATTTTCATTTAAATTGAATCTTTCTACTCGCCAGA
 AAAATTCCTTGGAGATATTGAAATATGGAACCAAGCTGAGAAAACAACTTGAACAGTTTGAATGAGTTC
 GGTGAGAAGTGGGAACTAAATCCTGGAGATGGAGCCTTCTATGGGCCAAAGATTGACATACAGATAAAAAG
 ATGCCATCGGTGCTACCACAGTGTGCAACCATCCAGCTGGACTTTCAGTTGCCATCAGGTTTAACTT
 TACTTACGTGAGCCAGTGGCGATGATAAGAAAAGGCCAGTATTGTTTACAGAGCCATCTCGGGTCCG
 GTGAAAGAATGATTGCCATCTCACAGAAAACATGGGGGCAATGGCCTTTCTGGCTCTCTCCTCGCC
 AGGTGATGGTGGTCCCAGTGGGACCGACATGTGATGAATATGCCAAAAGGTACGGCAACAATCCATGA
 TGCTAAATTCATGGCGGACACTGACCTGGATCCAGGCTGTACCTTGAATAAGAAGATCAGAAACGCACAG
 TTAGCACAGTATAACTTCATCCTTGTGTTGGTGAAGAAAAGAGAAAAGCCAGTGGCAGGTTGAACATCCGCA
 CGAGAGACAATAAGGTCCACGGAGAGCGGACAGTGGAGGAGACGGTGGCGGGCTGCAGCAGCTCAAGCA
 GACGCGCAGCAAGCAGGAGAGGAGGTTCTAGCAGGACACAGCTGTGCCCGAGCTGGCCCGTGTGAG
 GGAAGACCTTGTACACGGGAAGCAAGCGTGGCTTACGGCCGAGCGTGGAGTAGCTCTGCAGTCTGCATG
 AATCGGCTTTGATCTGGCCAAGTCTTAGAGAATGTTGTAGATGGGGTTAAGAGAACCATTTAAAGTAT
 TTTGTTGTTAAATGCCTCTTTCCAAAAATGGAAGATCCAAAAATGGGGATGTTTTATGTACCCGGGTTA
 TTTTGTATGAATCAATCAATTAGGAAAATAAAAAGATTTTAAATGTGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_033074

Insert Size: 2169 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: [BC055371](#), [AAH55371](#)

RefSeq Size: 2584 bp

RefSeq ORF: 2169 bp

Locus ID: 110960

UniProt ID: [Q9D0R2](#)

Cytogenetics: 15 5.6 cM

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]