

Product datasheet for **MC220597**

Tars2 (NM_001163617) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tars2 (NM_001163617) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tars2
Synonyms:	2610024N01Rik; AI429208; Tarsl1; thrRS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220597 representing NM_001163617
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTCTCTGTCTGAGGTGGCGCCGGCTTGGGTTCCCACTCCCAGAGTTCGCCCGCTGCGAGCTCCACA
 CCGTGCGTGAGGCCTCTGCACCAACTCCTCCACATTGGTTGGCAGAACGATTTGGCCTTTTTGAGGAGCT
 ATGGACCGCTCACGTGAAAAAGTTAGCAAGTATGACACAGAAGAAAGCCCGGGCTATTAAGATATCACTT
 CCTGAAGGCCAGAAGGTAGATGCTGTTGCATGGAACACAACCCCTTACCAACTGGCCATCAGATCAGTG
 TAACACTGGCTGATACTGCAGTGGCTGCTGAAGTAAATGGAGAAGTTTACGATCTGGACCGACCTTGGG
 GACAGATTGTACCTCAGATTTCTGACATTTGATTCCCCAGAGGGCAAAGCGGTGTTCTGGCACTCTAGT
 GCCCATGTTCTGGGGCTGCGGCTGAGCAACAAGTGGTGTCTCTGCGGAGGTCCAAGCACAGAAT
 CGGGCTTTTACCATGACTTCTTCTGGGAAAAGAACGGACAGTCCGCAGCGCAGAGTTGCCATTTTAGA
 GCGGATTTGCCAGGAGCTCATAGCTGCTGCACAGCCTTTCCGGAGGCTGGAGGCTTACGGGATCAGCTT
 CGCCAGCTCTTCAAGGACAACCACTTTAAGCTTCACTGATCGAGGAGAAAGTGACAGGCCAACCGCAA
 CAGTGTATGGGTGTGGCATGTCACTTGGCTGTGCCGAGGCCCCATCTTCGGCACACTGGACAGATTGG
 AGCACTGAAGCTGCTCACGAACCTCTCAGCCTTGTGGAGGCTCTTGGGAGCACCTGAGCACTGCAGAGG
 GTATCAGGAATTTCTTTCCCAAAGTAGAGTACTGAGGAACTGGGAAGCTCGAAGAGAAGCAGCAGAGT
 TAAGAGACCACAGACGATTGGGAAGGAACAGGAGCTCTTCTTCCATGAAGTGAAGCCCTGGGAGCTG
 TTTTTTCTTCCACGAGGGACAAGATCTATAATGCCCTGGTGGCTTTCATCAGGGCTGAGTATGCCCGC
 CGTGGTTTCTCAGAGGTAAAACCTCCACGCTGTTTTCTACAAAACCTCTGGGAACAGTCAAGGCACTGGG
 AACACTATAGGGCAGACATGTTTTCCCTGAAGCCCCCTGGCACTGATGGTGTGACAACCTCCAGAGTGG
 CCATCCTGCCAGGTGTCCCAAAGACACACTTGTCTAAAGCCCATGAAGTCCCTGCACACTGCCTGATG
 TTTGCCACCGGCCAGATCCTGGAGGAACTGCCTGTGCGACTGGCTGATTTCCGGAGCCCTGCATCGGG
 CTGAGGCCTCTGGCAGTCTGGGAGGATTAACGCGGCTGTGGCGCTTCCAGCAGGATGATGCGCACATCTT
 TTGTGCACCCCATCAGCTGGAAGCAGAGATCCAGGGCTGCCTTGATTTTCTCCGGTGTGTTTACTCGGT
 CTTGGTTTTCTTCCACCTGGCTTTATCTACCCGGCCACCTGGTTTTCTAGGGGAGCCTCGCCTATGGG
 ACCAGGCTGAGCAGATTGATGTGCACCTCCACGACGCCCTTGGTCGGCCCATCAGTGTGGAACAATCCA
 GCTTGACTTCCAGCTGCCACTGAGATTTGACCTACAATAAAGGGGCCGGCAGGTACCCAGAGTGTCCA
 GTCCTTATTCATCGAGCAGTGTCTGGTTCTGTGAAAGGCTGTTGGGAGTCTGCGAGAAAGCTGTGGGG
 GGAAATGGCCCTGTGGCTGTCCCGCTCCAGGTGGTGGTTCATCCCTGTGAGGACAGAGCAAGAGGAATA
 TGCCAGGCAGGTGCAACAGTGCCTGCAGGCTGCAGGACTGTGAGTGATCTCGATGCAGACTCTGGACTG
 ACCCTCAGCCGGAGAGTCCGCCGGGCCAGCTTGGCCACTACAACCTTTCAGTTTGTGGTTGGCCAGAGAG
 AGCAGAGTCAAAGGACAGTGAACGTACGCACGCGAGATAACCGGCAGCTCGGGGAGCGAGACCTGGCCGA
 GTCCGTGCAGAGACTGCTGGAGTTACAGAACGCCAGGGTCCCCAATGCAGAAGAAGTGTTC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001163617

Insert Size: 2094 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:	<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_001163617.1, NP_001157089.1</u>
RefSeq Size:	2446 bp
RefSeq ORF:	2094 bp
Locus ID:	71807
UniProt ID:	<u>Q3UQ84</u>
Cytogenetics:	3 F2.1
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.[UniProtKB/Swiss-Prot Function]