

## Product datasheet for **MC221104**

### Tars2 (NM\_027931) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tars2 (NM_027931) 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:** >MC221104 representing NM\_027931  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTCTCTGTCTGAGGTGGCGCCGGCTTGGGTTCCCACTCCCAGAGTTCGCCCGCTGCGAGCTCCACA  
 CCGTGCGTGAGGCCTCTGCACCAACTCCTCCACATTGGTTGGCAGAACGATTTGGCCTTTTTGAGGAGCT  
 ATGGACCGCTCACGTGAAAAAGTTAGCAAGTATGACACAGAAGAAAGCCCGGGCTATTAAGATATCACTT  
 CCTGAAGGCCAGAAGGTAGATGCTGTTGCATGGAACACAACCCCTTACCAACTGGCCCATCAGATCAGTG  
 TAACACTGGTGATACTGCAGTGGCTGCTGAAGTAAATGGAGAAGTTTACGATCTGGACCGACCTTGGGA  
 GACAGATTGTACCTCAGATTTCTGACATTTGATTCCCCAGAGGGCAAAGCGGTGTTCTGGCACTCTAGT  
 GCCCATGTTCTGGGGCTGCGGCTGAGCAACAACCTGGGTGCTGTTCTCTGCCGAGGTCCAAGCACAGAAT  
 CGGGCTTTTACCATGACTTCTTCTGGGAAAAGAACGGACAGTCCGCAGCGCAGAGTTGCCATTTTAGA  
 GCGGATTTGCCAGGAGCTCATAGCTGCTGCACAGCCTTTCCGGAGGCTGGAGGCTTCACGGGATCAGCTT  
 CGCCAGCTCTTCAAGGACAACCACTTTAAGCTTCACTGATCGAGGAGAAAGTGACAGGCCAACCGCAA  
 CAGTGTATGGGTGTGGCATGTACAGTTGACCTGTGCCGAGGCCCCATCTTCGGCACACTGGACAGATTGG  
 AGCACTGAAGCTGCTCACGAACCTCTCAGCCTTGTGGAGGTCCTTGGGAGCACCTGAGACACTGCAGAGG  
 GTATCAGGAATTTCTTTCCCAAAGTAGAGTACTGAGGAACTGGGAAGCTCGAAGAGAAGCAGCAGAGT  
 TAAGAGACCACAGACGCATTGGGAAGGAACAGGAGCTCTTCTTCCATGAAGTGAAGCCCTGGGAGCTG  
 TTTTTTCTGCCACGAGGGACAAGATCTATAATGCCCTGGTGGCTTTCATCAGGGCTGAGTATGCCCGC  
 CGTGGTTTCTCAGAGGTGAAAACCTCCACGCTGTTTTCTACAAAACCTGGGAACAGTCAAGGCACTGGG  
 AACACTATAGGGCAGACATGTTTTCCCTGAAGCCCTGGCACTGATGGTGTGACAACCTCCAGAGTGG  
 CCATCCTGCCAGGTGTCCCAAAGACACACTTGCTCTAAAGCCCATGAAGTCCCTGCACACTGCCTGATG  
 TTTGCCACCGGCCAGATCCTGGAGGAACTGCCTGTGCGACTGGCTGATTTCCGAGCCCTGCATCGGG  
 CTGAGGCCTCTGGCAGTCTGGGAGGATTAACGCGGCTGTGGCGCTTCCAGCAGGATGATGCGCACATCTT  
 TTGTGCACCCCATCAGCTGGAAGCAGAGATCCAGGGCTGCCTTGATTTTCTCCGGTGTGTTTACTCGGT  
 CTTGGTTTTCTTCCACCTGGCTTTATCTACCCGGCCACCTGGTTTCTAGGGGAGCCTCGCCTATGGG  
 ACCAGGCTGAGCAGGTTCTACAGCAAGCCTTGAGAAAGTTGGAGAACCTTGGGACCTCAACCCTGGAGA  
 TGGGGCTTCTATGGGCCTAAGATTGATGTGCACCTCCACGACGCCCTTGGTCCGCCCCATCAGTGTGGA  
 ACAATCCAGCTTGACTTCCAGCTGCCACTGAGATTTGACCTACAATAAAGGGGCCGGCAGTACCCAG  
 AGTGTCCAGTCTTATTCATCGAGCAGTCTTGGTTCTGTGGAAGGCTGTTGGGAGTGTGGCAGAAAG  
 CTGTGGGGGAAATGGCCCTGTGGCTGTCCCGCTCCAGGTGGTGGTATCCCTGTGAGGACAGAGCAA  
 GAGGAATATGCCAGGCAGGTGCAACAGTGCCTGCAGGCTGCAGGACTTGTGAGTATCTCGATGCAGACT  
 CTGGACTGACCCTCAGCCGGAGAGTCCGCCGGGCCAGCTTGCCCACTACAACCTTTCAGTTTGTGGTTGG  
 CCAGAGAGAGCAGAGTCAAAGGACAGTGAACGTACGCACGCGAGATAACCGGCAGCTCGGGGAGCGAGAC  
 CTGGCCGAGTCCGTGCAGAGACTGCTGGAGTTACAGAACGCCAGGGTCCCAATGCAGAAGAAGTGTCT  
 GA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_027931

**Insert Size:** 2172 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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_027931.3</a></u> , <u><a href="#">NP_082207.2</a></u>
<b>RefSeq Size:</b>	2524 bp
<b>RefSeq ORF:</b>	2172 bp
<b>Locus ID:</b>	71807
<b>UniProt ID:</b>	<u><a href="#">Q3UQ84</a></u>
<b>Cytogenetics:</b>	3 F2.1
<b>Gene Summary:</b>	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]