

## Product datasheet for **MG207194**

### Fars2 (NM\_024274) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fars2 (NM_024274) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fars2
Synonyms:	Fars1; pheRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207194 representing NM\_024274  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTCTGCTTGGCTCTCGTCAGAGCTGCCTATGAGCACATCTACCTGGTGAGGAAGGTCAGTCATGCCT  
 GCAGATGCCATCAACATCGGGCTTGGAGCTCAAAGCCAGCTGCATCACAGTCTGCTGTCCAGGGTGCCTC  
 AGGCAGTGTGCTGGAGATACTTGGTAAATCCTACCCTCAGGATGACCACACTAACCTCACCCAGAAGGTC  
 CTTTCCAAGTGGGCAGGAACCTGCACAACCAGAAGTTCCACCCTCTGTGGCTGATTAAGGAGCGGGTGA  
 AGGAGCACTTCTACCAGCAGTATATGGTGCATCCAGGACACCTCTATTCTCCGTCTATGACCAGCTTCC  
 TCCAGTGGTCACCACCTGGCAGAACTTTGATAGCCTGCTAATCCCAGCTGACCACCCAGCAGGAAAAAG  
 GGGGACAATACTTGAATCGGGCACACATGCTGAGAGCACACATCAGCGCATCAGTGGGACTTGC  
 TGCATCGGGACTTAATGCCTTCTTGTGGTAGGTGACGTGTATCGTCGTGACCAGATTGATTGCCAGCA  
 CTACCCAGTTTTCCACCAGCTGGAGGGTGTCCGGCTTCTCCAAGCATGAGTTATTTGCTGGCGTAAAG  
 GATGGAGAAAGCTTGCAGCTCTTTGAAGAAGGTTCTCGCTCTGCTCATAAGCAGGAGACACACCATGG  
 AGGCTGTGAAGCTTGTGGAGTTCGACCTTAAACAAGTACTGACTAGGCTTGTGACACATCTTTTTGGAGA  
 TGGGCTGGAGGTTCCGGTGGTGGATTGCTACTTCCCCTTACCCACCTTCTTCCGAGATGGAGATCAAC  
 TTCCGTGGAGAATGGCTTGAAGTCTTGGCTGCGGTGTGATGGAGCAGCAGCTTGTCAATTCAGCTGGTG  
 CTCAGGATCGAATCGGCTGGCGCTTGGCTGGGATTAGAAAGATTGGCGATGGTCTCTACGACATTCC  
 TGACATCCGCCTTTCTGGAGTGAGGATGAGCGCTTCTGAAGCAGTTCTCCTGTCCGACATCAACCAG  
 AGTGTCAAGTTTCAGCCTCTTAGCAAGTACCCCGCGTGTCAATGACATTTCTTCTGGCTGCCCTCTG  
 AGAACTACACGGAGAATGATTTCTATGACATCGTCCGAACAGCTCGGAGGAGACCTGGTAGAAAAGTTGA  
 TCTTATAGACAAGTTTGAACATCCAAGACACACAGGACCAGCCACTGCTACCGCATTACCTACCGCCAC  
 ATGGAACGGCACTGTCCAGAGAGAAGTCCGGCAATGTCCACCAGGCTGTGCAGGAGGCCCGTGCAGC  
 TGCTGGGTGTGGAGGCCGTTTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207194 representing NM\_024274  
 Red=Cloning site Green=Tags(s)

MVCLALVRAAYEHIYLVKRVSHACRCHQHRAWSSKPAASQSAVQGAPGSVLEILGKSYQQDDHTNLTKV  
 LSKVGRNLHNQKFHPLWLIKERVKEHFYQQYMVRSRTPLFVSYDQLPPVVTTWQNFDSLLIPADHPSRKK  
 GDNYYLNRHMLRAHTSAHQWDLHAGLNAFLVGDVYRRDQIDCQHYPVFHQLEGVRLF SKHEL FAGVK  
 DGE SLQLFEEGSRSAHKQETHTMEAVKLVEFDLKQVLRVTHLFGDGLVVRWVDCYFPFTHPSFEMEIN  
 FRGEWLEVLGCGVMEQQLVNSAGAQDRIGWAFGLGLERLAMVLYDIPDIRLFWSEDERFLKQFLLSDINQ  
 SVKFQPLSKYPVFNDFISFWLPSENYTENDFYDIVRTVGGDLVEKVDLIDKFEHPKTHRTSHCYRITYRH  
 MERTLSQREVGNVHQAVQEAAVQLLGVEGRF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



<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_024274.3</a></u> , <u><a href="#">NP_077236.1</a></u>
<b>RefSeq Size:</b>	2140 bp
<b>RefSeq ORF:</b>	1356 bp
<b>Locus ID:</b>	69955
<b>UniProt ID:</b>	<u><a href="#">Q99M01</a></u>
<b>Cytogenetics:</b>	13 A3.3
<b>Gene Summary:</b>	Is responsible for the charging of tRNA(Phe) with phenylalanine in mitochondrial translation. To a lesser extent, also catalyzes direct attachment of m-Tyr (an oxidized version of Phe) to tRNA(Phe), thereby opening the way for delivery of the misacylated tRNA to the ribosome and incorporation of ROS-damaged amino acid into proteins (By similarity).[UniProtKB/Swiss-Prot Function]