

## Product datasheet for **SC127390**

### Methionyl tRNA synthetase (MARS) (AK092986) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Methionyl tRNA synthetase (MARS) (AK092986) Human Untagged Clone
Tag:	Tag Free
Symbol:	Methionyl tRNA synthetase
Synonyms:	CMT2U; ILFS2; ILLD; METRS; MRS; MTRNS; SPG70
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK092986, the custom clone sequence may differ by one or more nucleotides

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ATGACCTCACTGACTCACATTGACCACAGCTTGAGTCGTCAGAAGTGCCTTTCTGGCTGGGGAGACAG
AATCTCTAGCCGACATTGTTTTGTGGGGAGCCCTATACCCATTACTGCAAGATCCCGCTACCTCCCTGA
GGAGCTGAGTGCCCTGCACAGCTGGTTCAGACACTGAGTACCCAGGAACCATGTCAGCGAGCTGCAGAG
ACTGTACTGAAACAGCAAGGTGTCCTGGCTCTCCGGCCTCACCTCCTCAAAGCAGCCCCAGCCAGCCCCG
CTGAGGGAAGGGCTGTACCAATGAGCCTGAGGAGGAGGAGCTGGCTACCCTATCTGAGGAGGAGATTGC
TATCTGCTGTACATTCGGCCTGAGGGCCAGGACAGTGCTTCTCCTGGACGGACCTGCTGCTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for AK092986 unedited AGTATTTTGTAAACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGGCGAAATGA GACTGTTTCGTGAGTGATGGCGTCCCGGTTGCTTGCCGGTGTGGCCGCCCGGGAGAG CCCGGGCAGAGCAGAGGTGCTCATCAGCACTGTAGGCCCGGAAGATTGTGTGGTCCCCT TCCTGACCCGGCCTAAGGTCCCTGTCTTGACGCTGGATAGCGGCAACTACCTCTTCTCCA CTAGTGAATCTGCCGATATTTTTTTTTTTTATCTGGCTGGGAGCAAGATGACCTCACTA ACCAGTGGCTGGAATGGGAAGCGACAGAGCTGCAGCCAGCTTTGTCTGCTGCCCTGTACT ATTTAGTGGTCCAAGGCAAGAAGGGGGAAGATGTTCTTGTTTCAGTGCGGAGAGCCCTGA CTCACATTGACCACAGCTTGAGTCGTCAGAACTGTCTTTCTGGCTGGGAGACAGAAT CTCTAGCCGACATTGTTTTGTGGGAGCCCTATACCCATTACTGCAAGATCCCGCTACC TCCCTGAGGAGCTGAGTGCCCTGCACAGCTGGTCCAGACACTGAGTACCCAGGAACCAT GTCAGCGAGCTGCAGAGACTGTACTGAAACAGCAAGGTGTCTGGCTCTCCGGCCTTACC TCCAAAAGCAGCCCAGCCAGCCCGCTGAGGGAAGGGCTGTACCAATGAGCCTGAGG AGGAAGAGCTGGTACCCTATCTGAGGAGGAGATTGCTATGGCCTGTACTGCTTGGGAGA AGGCCTANAAGTTTGCCCGCTGCGGCCCCCAAAATCAGTGTTGCTGTGGCTGGAGAA AGGAAGTCTCATCACCAGGGCCCTCCCTA
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for AK092986 unedited CGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGAGATTGTACATTTATTTACTG TCCCTATCTATTAAGTACTTTCTATGAGCCAAGGTCTTTTACTTTTTCTTCTTGCCCT TAAGGGCTTCAAGGGTTTCCCCTCAGCTACAGCCAAGTGTCTTTAGATCCAAGAGTT TCGCCACCTCCGACCAACCTCGTCTTGTCTGCCTTTTGTGCTTTCAGTTCTCGGACAA TGTTTCCTTGTTTTGTCACTTCATCCATCAGCGCTGTATCTGCTGTGGCTTGGCTGTTG TAACAGTCTCTACAACCTGCTGGCTTCGGGACGTTTTTGCCTGGCCCCCTCCAAAGCGCT GCCTTAACTTTCAATCTGGTCATTTTCCAATTTTGAACAAGGGACTGACTGTGCCAA TCTGGTGTCTGCTGGTAAAGTACACAGGAAGTTGTGACAGGATACTGCACGCTGGAA GTGGGAGCTGCAGCTGGGCTGGATTGTGGCACTAACCCTGGGCATGTAAGGCTGAAACA TGACAGAGAGCCAGGCCACCTTTTTCTCTGGCAAGCCATTCACCTGTCTGCCCCGTTGCC TTGTAGCCCCACTTGCCCTATTCGCTTCAAGGCCTATTCACCCGAATAATGGGTGCCTGG CCAGATTTGTAAGATACCGCCAGCATCCCGGTTCCACCCTTTTAAATCTGGGATAGT TGGACCCCTGGTGCATGGCCAGCGGCTTTTCTTAAGGGCGACTCCTCTCAGCCCTACCC CCAAAACCTTTTACAACCTTCACTTCCCTTACAATTTCCACTTTTATACCACTAAATTTTCT TTTACTGCGCGCCCAATAATCCGTCCTGACCCTTGCCAACCTCATTATTAACCTCCATG TTTTGCTCCCGTCTGACTATCCCAACTCCTCTTCCCTAAAATTCCTCCACTTTAN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK092986
<b>Insert Size:</b>	2870 bp
<b>OTI Disclaimer:</b>	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>	<a href="#">AK092986.1</a> , <a href="#">BAC04011.1</a>
<b>RefSeq Size:</b>	2695 bp
<b>RefSeq ORF:</b>	414 bp
<b>Locus ID:</b>	4141
<b>Cytogenetics:</b>	12q13.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Aminoacyl-tRNA biosynthesis, Selenoamino acid metabolism
<b>Gene Summary:</b>	This gene encodes a member of the class I family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. The encoded protein is a component of the multi-tRNA synthetase complex and catalyzes the ligation of methionine to tRNA molecules. [provided by RefSeq, Jan 2011]