

## Product datasheet for **SC100504**

### **MARS2 (NM\_138395) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MARS2 (NM_138395) Human Untagged Clone
Tag:	Tag Free
Symbol:	MARS2
Synonyms:	COXPD25; MetRS; mtMetRS
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC100504 sequence for NM\_138395 edited (data generated by NextGen Sequencing)

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ATGCTGCGAACGTCCGTCTCCGCCTGCTAGGACGCACGGGGGCTAGTAGGCTGTCTCTC
CTGGAGGACTTCGGCCCACGCTACTACAGTTTCGGGCTCCCTCAGTGCCGGCGATGATGCT
TGTGATGTGCGCGCTACTTCACTACACCCATTTCTACGTGAACGCGGCGCCGCACATC
GGGCACCTGTACTCGGCACTACTGGCGGACGCCCTATGCCGCCACCGTCGCCTCCGAGGT
CCCAGCAGCGGCCACGCGATTCTCCACTGGTACCGACGAGCAGCGGGCTGAAGATTGAG
CAGGCAGCAGCTACCGCGGGCTGGCCCCGACCGAGCTGTGCGACCGAGTCTCTGAGCAG
TTCCAGCAGCTTTTCCAGGAGGCCGGTATCTCCTGCACAGATTTATCCGCCACCACGGAG
GCCCGGCACCGGGTGGCTGTGCAGCACTTCTGGGGGTGCTTAAGTCCCGCGGTCTGCTC
TACAAGGGCGTCTATGAAGGTTGGTATTGCGCTTCCGACGAGTGTCTCCTGCCTGAGGCC
AAGGTCACCCAGCAGCCGGGCCATCGGGGATTCTGTTTCTGTATCTCTCGAGAGCGGG
CATCCAGTCTCCTGGACCAAGGAAGAAACTACATTTTCAGGCTTCCAGTTCGGGAAG
CCACTCCAGCGGTGGCTCGGGGCAACCCTCAGGCGATCACCCCCGAACCATTTATCAC
GTAGTTTTCAGTGGCTGGACGAGGAGTGCCTGACCTGTCCGTGTCTCGCAGAAGTAGC
CACTTGCACTGGGCATTCCGGTCCCGGGGATGATTGCGAGACCATCTATGTATGGCTG
GATGCCCTGGTCAACTACCTCACTGTAATTGGCTACCCAAATGCTGAGTTCAAATCTTGG
TGGCCGGCCACCTCTCATATCATAGGTAAGGACATTCTCAAATCCATGCCATCTATTGG
CCTGCCTTCTGTTAGGGGCCGGCATGAGCCCGCCACAGCGCATCTGTGTCCATCCCAC
TGGACAGTCTGTGGCCAAAAGATGTCCAAGAGCTTGGCAACGTGGTGGATCCTAGGACT
TGCTTAAACCGCTATACCGTGGATGGCTTCCGCTACTTTCTCCTTCGGCAGGGCGTCCCC
AACTGGGACTGTGACTACTATGATGAAAAGGTGGTTAAGTTGCTGAACTCCGAGCTGGCA
GATGCCCTGGGAGGTCTCTTGAACCGATGCACTGCCAAAAGAATAAATCCTTCTGAGCA
TACCCAGCCTTTCGCACTACCTGCTTCCCTAGTGAGCCAGGGTTGGTGGGCGCGTCAGTT
CGTGCTCAGGCAGAGGATTATGCTCTGGTGAGCGCAGTGGCCACTTTGCCAAAGCAGGTA
GCAGACCACTATGATAACTTTCCGATATATAAGGCTCTGGAGGCCGTGTCCAGCTGTGTC
CGGCAAATAATGGTTTTGTCCAAGGCATGCACCATGGAAGCTGAACTGGGAGAGCCCA
GTGGATGCTCCCTGGCTGGTACTGTGCTTCACTGTGGCCTTGAATGTTTGCAGTCTTT
GGGACTTTGCTGCAGCCTGTCACCCCAAGCCTAGCTGACAAGCTGCTGTCTAGGCTGGG
GTCTCTGCCTCAGAGAGGAGTCTTGGAGAGCTCTATTTCTTGCCTCGATTCTATGGACAT
CCATGCCCTTTTGAAGGGAGGAGCTGGGACCTGAAACTGGGCTTTTGTTCGAAGACTA
GACCAGTCCAGGACTTGGCTGGTGAAGGCCACCGGACCTAG
    
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Clone variation with respect to NM\_138395.3

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_138395 unedited

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GCATTTCCCCCGCCCGTTGNCGCATTGGGCGGTAGGCGGTACGGTGGGAGGTCTATATA
AGCAGAGCTCATTAGGTGACACTATAGAATAACAAGCTACTTGTCTTTTTGCAGCGGCC
GCGAATTCGCGCACGAGGGCACCATGCTGCGAACGTCCGTCTCCCGCTGCTAGGACGCAC
GGGGGCTAGTAGGCTGTCTCTCCTGGAGGACTTCGGCCCACGCTACTACAGTTTCGGGCTC
CCTCAGTGCCGGCGATGATGCTTGTGATGTGCGCGCTACTTCACTACACCCATTTTCTA
CGTGAACGCGGCGCCGCACATCGGGCACCTGTACTCGGCACTACTGGCGGACGCCCTATG
CCGCCACCGTCGCCTCCGAGGTCCAGCACGGCCGCCACGCGATTCTCCACTGGTACCGA
CGAGCACGGGCTGAAGATTCAGCAGGCAGCAGCTACCGCGGGCTGGCCCCGACCGAGCT
GTGCGACCGAGTCTCTGAGCAGTTCAGCAGCTTTTCCAGGAGGCCGGTATCTCCTGCAC
AGATTTTATCCGACACCGGAGGCCCGCACCGGGTGGCTGTGCGACACTTCTGGGGGT
GCTTAAGTCCCGCGGTCTGCTCTACAGGGCGTCTATGAAGGTTGGTATTGCGCTCCGAC
GAGTGCTTCTGCCTGAGGCCAAGGTCACCCAGCAGCCGGGCCATCGGNNNGATTCTGTT
TCCTGTATCTCTCGAGAGCGGGCATCCAGTCTGACCAAGGAAGAAACTACATNT
CAGGCTNNTCCAGTTNCGGAAGCCACTNCAGCGGTGGGCTGCGGGCAACCCTCAGCGAT
CACCCNCGAACCATTTTATCACGTAGTNTTTTCAAGTGGCTGGACGAAGAGCTGNCCGACC
TGTCGGTGTCTCGCAGAAGTAGCCACTTGACTG
    
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<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Aminoacyl-tRNA biosynthesis, Selenoamino acid metabolism
<b>Gene Summary:</b>	This gene produces a mitochondrial methionyl-tRNA synthetase protein that is encoded by the nuclear genome and imported to the mitochondrion. This protein likely functions as a monomer and is predicted to localize to the mitochondrial matrix. Mutations in this gene are associated with the autosomal recessive neurodegenerative disease spastic ataxia-3 (SPAX3). [provided by RefSeq, Apr 2014]