

Product datasheet for **SC310726**

YARS2 (NM_001040436) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	YARS2 (NM_001040436) Human Untagged Clone
Tag:	Tag Free
Symbol:	YARS2
Synonyms:	CGI-04; MLASA2; MT-TYRRS; TYRRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC310726 representing NM_001040436.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

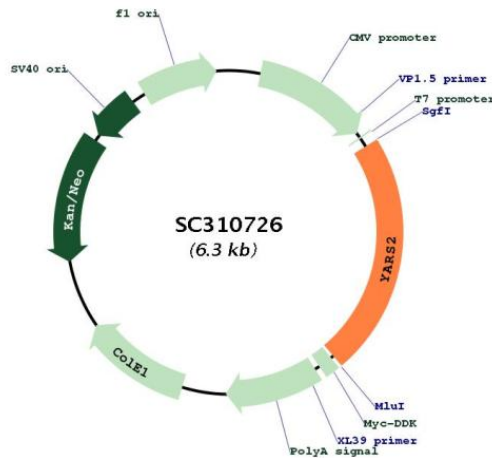
```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGGCGCCCATCTTGCGGTCCTTTTCTGGGGCCGGTGGTCTGGTACCCTAAATCTCTCAGTATTG
TTGCCCTTGGGGCTGCGTAAGGCCCACTCGGGCGCTCAGGGGTTACTGGCAGCGCAGAAGGCTCGAGGT
CTGTTCAAGGACTTCTTCCCGGAGACGGGGACGAAAATAGAGCTCCAGAGCTCTTCGACCGTGGCAGC
GCGAGTTTTCCCAAACCATTTACTGTGGCTTCGACCCACGGCAGACTCGTTCATGTGGGTCACTCTA
CTTGCGCTGCTGGGCTGTTTCATTTGCAGCGAGCGGGCCACAACGTGATCGCGCTGGTGGGAGGCGCC
ACGGCGCGCTGGGAGACCCGAGCGGCCGTACCAAGGAACGCGAGGCGCTGGAGACAGAGCGGTGCGA
GCCAACGCGGAGCTCTGCGCTAGGGCTTGGGCCCTGGCGGCTAATCACCAGCAGTTTTCACTGAT
GGGCGCTCTGGGCGAGTTCCTGTGCTGGACAACCTCGGCTGGTACCAGAAGCAGCACCTGGTGGAC
TTCTGGCGCAGTGGGGGTCACTTCCGCATGGGGACGCTGCTGAGCCGGCAGAGCGTGCAGCTGCGG
CTCAAGAGCCCGAGGGCATGAGCTTGGCCGAGTTCTTTACCAGGTGCTCCAGGCTATGACTTCTAT
TACCTCTTCCAGGTTATGGATGCAAGGTCCAGCTGGGCGGATCTGATCAACTAGCAACATCATGTCC
GGATATGAGTTTCAACAAGTTGACTGGAGAAGATGATTTGGAATCACCGTTCCTCTAATTACAAGT
ACAACGGAGCAAAGCTGGGAAAGTCTGCTGGCAACGCTGTTGGCTAAACAGAGATAAGACATCTCCA
TTTGAATTGTATCAATCTTTGTGAGGCAACCGGACGATTCAGTGGAAAGGTACCTGAAGCTGTTCACT
TTCTGCCCTTCCAGAGATTGATCATATCATGCACTGCATGTCAAAGACCCAGAAAGGCGGGTCTCT
CAGAAACGACTGGCAGCAGAAGTAACAAAGCTTGTTCATGGACGAGAAGGATTGGATTCTGCTAAAAGG
TGTACACAAGCCCTTATCACAGTAGCATAGATGCACTGGAGGTCATGTCTGATCAGGAGTTAAAAGAG
TTGTTTAAAGAAGCTCCATTTTCTGAATTTTTCTCGATCCTGGAACAAGTGCTCTAGACTACTTGGCGC
AAAGCAAATGCCATTCAGATGGTCCCGAGGGTATCGAATGATAACAGAAGCGGAGTCAGCATAAAT
CACCAACAAGTAACAAATCCTGAGAGTGTTTAATTGTTGGACAACATATTCTCAAGAATGGACTTTCC
TTACTTAAAATAGGAAAAAGAAATTTCTACATTATAAAATGGCTTCAGTTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN: NM_001040436

Insert Size: 1434 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001040436.2</u>
RefSeq Size:	2173 bp
RefSeq ORF:	1434 bp
Locus ID:	51067
UniProt ID:	<u>Q9Y2Z4</u>
Cytogenetics:	12p11.21
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis
MW:	53.2 kDa
Gene Summary:	This gene encodes a mitochondrial protein that catalyzes the attachment of tyrosine to tRNA(Tyr). Mutations in this gene are associated with myopathy with lactic acidosis and sideroblastic anemia type 2 (MLASA2). [provided by RefSeq, Jan 2011]