

Product datasheet for SC310498

WARS2 (NM_015836) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WARS2 (NM_015836) Human Untagged Clone
Tag:	Tag Free
Symbol:	WARS2
Synonyms:	mtTrpRS; NEMMLAS; TrpRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310498 representing NM_015836. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGCTGCACTCAATGCGGAAAGCGCGTGAGCGCTGGAGCTTCATCCGGGCACCTTCATAAGGGATCC
GCAGCTGCTCCCGCTCTCCAGAAAGACAGCAAGAAGCGAGTATTTCCGGCATTCAACCTACAGGAATC
CTCCACCTGGGCAATTACCTGGGAGCCATTGAGAGCTGGGTGAGGTTACAGGATGAATATGACTCTGTA
TTATACAGCATTGTTGACCTCCACTCCATTACTGTCCCCAAGACCCAGCTGTCTTCGGCAGAGCATC
CTGGACATGACTGCTGTTCTTCTTGCCTGTGGCATAAACC GGAAAAAAGCATCCTTTTCCAACAATCT
CAGGTGTCTGAACACACACAATTAAGTTGGATCCTTTCTGCATGGTCAGACTACCTCGATTACAACAT
TTACATCAGTGAAGGCAAAGACTACCAAGCAGAAGCAGATGGCACGGTGGGCCCTGCTCACATACCCA
GTACTCCAGGCAGCCGACATTCTGTTGTACAAGTCCACACACGTTCTGTTGGGGAGGATCAAGTCCAG
CACATGGAAGTAGTTTCAGGATCTAGCACAAAGTTTCAACAAGAAGTATGGGGAGTCTTTCCAGTGCCC
GAGTCCATTCTCACATCCATGAAGAAGTAAAAATCCCTACGTGATCCTTCTGCCAAAATGTGAAATCA
GACCCTGACAAACTGGCCACCGTCCGAATAACAGACAGCCAGAGGAGATAGTGCAGAAATTCGCAAG
GCTGTGACAGACTTACCTCGGAGGTCACCTATGACCCGGCTGGCCGCGCTGGCGTGTCCAACATAGTG
GCGGTGCATGCCGCGTGACGGGGCTCTCCGTGGAGGAAGTGGTGCGCCGAGCGCGGGCATGAACACT
GCTCGCTACAAGCTGGCGTGGCAGATGCTGTGATTGAGAAGTTTGCCTCAATTAAGCGTGAATTTGAA
AACTGAAGCTGGACAAGGACCATTTAGAGAAGTTTTACAAATTTGGATCAGCAAAAGCCAAAGAATTA
GCATACACTGTGTGCCAGGAGGTGAAGAATTTGGTGGTTTTCTATAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map: □



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ACCN:	NM_015836
Insert Size:	1083 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:	NM_015836.3
RefSeq Size:	2806 bp
RefSeq ORF:	1083 bp
Locus ID:	10352
UniProt ID:	Q9UGM6
Cytogenetics:	1p12
Domains:	tRNA-synt_1b
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis, Tryptophan metabolism
MW:	40.1 kDa
Gene Summary:	<p>Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of tryptophanyl-tRNA synthetase exist, a cytoplasmic form, named WARS, and a mitochondrial form, named WARS2. This gene encodes the mitochondrial tryptophanyl-tRNA synthetase. Two alternative transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript but encodes the longer protein (isoform 1).</p>