

Product datasheet for SC310263

CARS2 (NM_024537) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARS2 (NM_024537) Human Untagged Clone
Tag:	Tag Free
Symbol:	CARS2
Synonyms:	COXPD27; cysRS
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024537, the custom clone sequence may differ by one or more nucleotides

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ATGTTGAGGACTACGCGCGGCCAGGCCTGGGCCCCCGTGCTCCAGGCCGCGCTGGGC
CTTGGGCGGGCTGGGTGGCACTGGCCTGCGGGCCGGGCGGCGAGCGGGGGCGCGGGCGG
GCCTGGCTGCAGCCACGGGCGGGAGACGGGTGTGCAGGTGTACAACAGCCTCACCGGG
AGGAAGGAACCCCTAATCGTGGCGCACGCCGAAGCCGCTCCTGGTATAGCTGTGGACCA
ACTGTATATGATCATGCGCACCTTGGCCATGCTTGCTCATATGTTAGATTTGATATCATT
CGAAGGATCCTAACCAAGTTTTTGGATGCAGCATAGTCATGGTATGGGATTACAGAT
GTAGATGATAAAATCATCAAAGAGCCAATGAGATGAATATTTCCCCCGCTTCCCTCGCC
AGTCTTTATGAGGAAGACTTCAAGCAGGACATGGCAGCCCTGAAGTTCTCCACCCACG
GTGTACCTGAGGGTAACCGAAAATATTCCTCAGATAATTTCTTTTATTGAAGGAATCATT
GCTCGTGGGAACGCTTATTCAACGGCAAAAAGGCAATGTCTACTTCGATCTGAAGTCTAGA
GGAGACAAGTATGGCAAATTTGGTCGGCGTGGTCCCTGGTCCAGTCGGAGAGCCAGCGGAC
TCTGACAAGCGTCATGCCAGTGACTTCGCCCTGTGGAAGGCGGCCAAACCCAGGAGGTG
TTCTGGGCTCTCCCTGGGACCCGGGAGGCCGGGCTGGCACATCGAGTGCTCTGCCATC
GCTAGTATGGTATTTGGAAGTCAACTGGATATCCATTACAGTGGGATAGATTTAGCTTTT
CCACATCATGAAAACGAAATTGCACAGTGCGAAGTCTTTTCATCAGTCCGAGCAGTGGGGA
AATTATTTTCTGCATTCTGGCATTTGCACGCCAAAGGCAAGAAGAAAAAATGTCCAAA
TCATTAAGAAGTACATTACTATTAAGGACTTTTCTGAAGACCTTTTCCCCGATGTCTTC
CGGTTCTTCTGCCTGCGGAGCAGTACCCTCAGCCATCGACTACAGTGACAGCGCCATG
CTCCAAGCTCAGCAGTCTCCTGGGGCTGGGCTTTTCTGGAGGACGCACGTGCCTAC
ATGAAGGGGCGAGTGGCCTGCGGCTCCGTGAGGAAGCGATGCTGTGGGAGAGGCTCTCC
AGCACCAAGAGGGCCGTGAAGGCGGCTTGGCAGATGATTTTGACACACCAGGGTGGTT
GATGCCATCCTGGGCTTGCACACCACGGGAATGGACAGCTCAGGCGTCCCTGAAGGAA
CCTGAAGGGCCGAGAAGTCTGTGTGTTGGTGCATCATCTTACTTTGAACAGTTT
TTTGAAACTGTTGGAATTTCTCTGGCAAATCAACAGTACGTTTTCAGGAGACGGCAGCGAG
GCTACCTTGATGGTGTGGTGGACGAGCTGGTGGGTTCCGGCAGAAGGTCGGCAGTTT
GCGCTGGCCATGCCCCAGGCCACGGGGACGCCCGGCGGACGAGCTCCTAGAAAGGCAG
CCCCTGTGGAAGCATGCGACACCCTGCGCCGGGGCTGACTGCCACGGCATCAACATC
AAGGACAGAAGCAGTACAACATCCACGTGGGAAGTCTGGATCAAAGGACAAAAGACCAA
AAATCAGCGGGCTGA

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Restriction Sites:	Please inquire
ACCN:	NM_024537
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_024537.1 , NP_078813.1
RefSeq Size:	1843 bp
RefSeq ORF:	1695 bp
Locus ID:	79587
UniProt ID:	Q9HA77
Cytogenetics:	13q34
Domains:	tRNA-synt_1e
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis
Gene Summary:	This gene encodes a putative 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. This protein is encoded by the nuclear genome but is likely to be imported to the mitochondrion where it is thought to catalyze the ligation of cysteine to tRNA molecules. A splice-site mutation in this gene has been associated with a novel progressive myoclonic epilepsy disease with similar symptoms to MERRF syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2017]