

Product datasheet for **SC202175**

CARS (NM_001014438) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	CARS (NM_001014438) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	CARS
Synonyms:	CARS1; CYSRS; cysteine-tRNA ligase; cysteine transase; cysteine tRNA ligase 1, cytoplasmic; cysteinyl-tRNA synthetase; MGC:11246; OTTHUMP00000012605
ACCN:	NM_001014438
Insert Size:	227 bp
Insert Sequence:	>SC202175 3'UTR clone of NM_001014438 The sequence shown below is from the reference sequence of NM_001014438. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAA GCGATCGCC CAGATGGCCAGAAATGGAAGCTTCCAG TGA GGGGGCACAGGACTGACTTTTTAAACCATTGTGGACTAG TGGCTGCTGTCTGCCTCAGTGACAATGTCCCAGCGCTCCTATCATGTTTACAGTCACCCTTGGGTCTTA AATTAAGAGTTGTGTTTCATGTAGTTCGTGTCGTCGTTGGCTCTGAGACATTGATAATAAATTTTCTC AACAGTAAAAAAAAAAAAA ACGCGT AAGCGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
Restriction Sites:	Sgfl-Mlul
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_001014438.1</u>



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Summary: This gene encodes a class 1 aminoacyl-tRNA synthetase, cysteinyl-tRNA synthetase. Each of the twenty aminoacyl-tRNA synthetases catalyzes the aminoacylation of a specific tRNA or tRNA isoaccepting family with the cognate amino acid. This gene is one of several located near the imprinted gene domain on chromosome 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian and breast cancers. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Aug 2010]

Locus ID: 833

MW: 8.5