

## Product datasheet for **RC224149L4V**

### CARS (CARS1) (NM\_139273) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	CARS (CARS1) (NM_139273) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CARS1
Synonyms:	CARS; CYSRS; MCDDBH; MDBH; MGC:11246
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_139273
ORF Size:	2178 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC224149).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_139273.2</a>
RefSeq Size:	2536 bp
RefSeq ORF:	2181 bp
Locus ID:	833
UniProt ID:	<a href="#">P49589</a>
Cytogenetics:	11p15.4
Domains:	tRNA-synt_1e
Protein Families:	Druggable Genome



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**Protein Pathways:** Aminoacyl-tRNA biosynthesis

**MW:** 82.7 kDa

**Gene 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]