

Product datasheet for **RC203400L4V**

CARS2 (NM_024537) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	CARS2 (NM_024537) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CARS2
Synonyms:	COXPD27; cysRS
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_024537
ORF Size:	1692 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC203400).
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. More info
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:	NM_024537.2
RefSeq Size:	1865 bp
RefSeq ORF:	1695 bp
Locus ID:	79587
UniProt ID:	Q9HA77
Cytogenetics:	13q34
Domains:	tRNA-synt_1e
Protein Families:	Druggable Genome



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Protein Pathways: Aminoacyl-tRNA biosynthesis

MW: 62.2 kDa

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]