

Product datasheet for **RC200311L4V**

Lysyl tRNA synthetase (KARS) (NM_005548) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Lysyl tRNA synthetase (KARS) (NM_005548) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Lysyl tRNA synthetase
Synonyms:	CMTRIB; DEAPLE; DFNB89; KARS; KARS2; KRS; LEPID
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_005548
ORF Size:	1791 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200311).
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_005548.1
RefSeq Size:	2017 bp
RefSeq ORF:	1794 bp
Locus ID:	3735
UniProt ID:	Q15046
Cytogenetics:	16q23.1
Domains:	tRNA-synt_2, tRNA_anti
Protein Pathways:	Aminoacyl-tRNA biosynthesis



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MW: 68 kDa

Gene Summary: Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. Lysyl-tRNA synthetase is a homodimer localized to the cytoplasm which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]