

Product datasheet for **RC223715L3V**

Alanyl tRNA synthetase 2 (AARS2) (NM_020745) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Alanyl tRNA synthetase 2 (AARS2) (NM_020745) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Alanyl tRNA synthetase 2
Synonyms:	AARSL; COXPD8; LKENP; MT-ALARS; MTALARS
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_020745
ORF Size:	2955 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC223715).
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_020745.1
RefSeq Size:	4096 bp
RefSeq ORF:	2958 bp
Locus ID:	57505
UniProt ID:	Q5J TZ9
Cytogenetics:	6p21.1
Protein Pathways:	Aminoacyl-tRNA biosynthesis
MW:	107.1 kDa



[View online »](#)

Gene Summary:

The protein encoded by this gene belongs to the class-II aminoacyl-tRNA synthetase family. Aminoacyl-tRNA synthetases play critical roles in mRNA translation by charging tRNAs with their cognate amino acids. The encoded protein is a mitochondrial enzyme that specifically aminoacylates alanyl-tRNA. Mutations in this gene are a cause of combined oxidative phosphorylation deficiency 8. [provided by RefSeq, Dec 2011]