

Product datasheet for **RC202136L2V**

AlaRS (AARS) (NM_001605) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	AlaRS (AARS) (NM_001605) Human Tagged ORF Clone Lentiviral Particle
Symbol:	AlaRS
Synonyms:	AARS; CMT2N; DEE29; EIEE29
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_001605
ORF Size:	2904 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC202136).
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_001605.2
RefSeq Size:	3344 bp
RefSeq ORF:	2907 bp
Locus ID:	16
UniProt ID:	P49588
Cytogenetics:	16q22.1
Domains:	tRNA-synt_2c, DHHA1
Protein Pathways:	Aminoacyl-tRNA biosynthesis



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MW: 106.8 kDa

Gene Summary: The human alanyl-tRNA synthetase (AARS) belongs to a family of tRNA synthases, of the class II enzymes. Class II tRNA synthases evolved early in evolution and are highly conserved. This is reflected by the fact that 498 of the 968-residue polypeptide human AARS shares 41% identity with the E.coli protein. tRNA synthases are the enzymes that interpret the RNA code and attach specific aminoacids to the tRNAs that contain the cognate trinucleotide anticodons. They consist of a catalytic domain which interacts with the amino acid acceptor-T psi C helix of the tRNA, and a second domain which interacts with the rest of the tRNA structure. [provided by RefSeq, Jul 2008]