

Product datasheet for **RC211919L4V**

IARS2 (NM_018060) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	IARS2 (NM_018060) Human Tagged ORF Clone Lentiviral Particle
Symbol:	IARS2
Synonyms:	CAGSSS; ILERS
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_018060
ORF Size:	3036 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC211919).
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_018060.3 , NP_060530.3
RefSeq Size:	3549 bp
RefSeq ORF:	3039 bp
Locus ID:	55699
UniProt ID:	Q9NSE4
Cytogenetics:	1q41
Domains:	tRNA-synt_1
Protein Families:	Druggable Genome



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Protein Pathways: Aminoacyl-tRNA biosynthesis, Valine, leucine and isoleucine biosynthesis

MW: 113.6 kDa

Gene Summary: Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of isoleucine-tRNA synthetase exist, a cytoplasmic form and a mitochondrial form. This gene encodes the mitochondrial isoleucine-tRNA synthetase which belongs to the class-I aminoacyl-tRNA synthetase family. [provided by RefSeq, Dec 2014]