

Product datasheet for RC211919L3

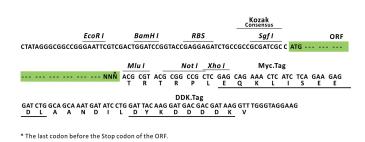
IARS2 (NM_018060) Human Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	IARS2 (NM_018060) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	IARS2
Synonyms:	CAGSSS; ILERS
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC211919).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Miu I GCG ATC GC ATG// NNN ACG CGT



ACCN: ORF Size: NM_018060 3036 bp



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OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM 018060.3</u> , <u>NP 060530.3</u>
RefSeq Size:	3549 bp
RefSeq ORF:	3039 bp
Locus ID:	55699
UniProt ID:	Q9NSE4
Cytogenetics:	1q41
Domains:	tRNA-synt_1
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis, Valine, leucine and isoleucine biosynthesis
MW:	113.6 kDa

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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]

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