

Product datasheet for RC213391L4

WARS2 (NM_201263) Human Tagged Lenti ORF Clone

Product data:

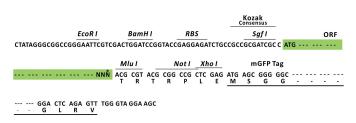
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OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	WARS2 (NM_201263) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	WARS2
Synonyms:	mtTrpRS; NEMMLAS; TrpRS
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC213391).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling: Sgf I ORF MIU I GCG ATC GCC ATG // NNŇ ACG CGT

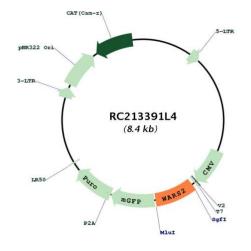


* The last codon before the Stop codon of the ORF.



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Plasmid Map:



ACCN:	NM_201263
ORF Size:	660 bp
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. <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 201263.2, NP 957715.1</u>
RefSeq Size:	2835 bp
RefSeq ORF:	663 bp

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	2 (NM_201263) Human Tagged Lenti ORF Clone – RC213391L4
Locus ID:	10352
UniProt ID:	<u>Q9UGM6</u>
Cytogenetics:	1p12
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis, Tryptophan metabolism
MW:	24.8 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 tryptophanyl-tRNA synthetase exist, a cytoplasmic form, named WARS, and a mitochondrial form, named WARS2. This gene encodes the mitochondrial tryptophanyl-tRNA synthetase. Two alternative transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

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