

Product datasheet for **RC221871L4V**

KIAA1970 (EARS2) (NM_001083614) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	KIAA1970 (EARS2) (NM_001083614) Human Tagged ORF Clone Lentiviral Particle
Symbol:	KIAA1970
Synonyms:	COXPD12; gluRS; MSE1; mtGlnRS
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001083614
ORF Size:	1569 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC221871).
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_001083614.1
RefSeq Size:	3979 bp
RefSeq ORF:	1572 bp
Locus ID:	124454
UniProt ID:	Q5JPH6
Cytogenetics:	16p12.2
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis, Metabolic pathways, Porphyrin and chlorophyll metabolism



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MW: 58.5 kDa

Gene Summary: This gene encodes a member of the class I family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. This protein is encoded by the nuclear genome but is likely to be imported to the mitochondrion where it is thought to catalyze the ligation of glutamate to tRNA molecules. Mutations in this gene have been associated with combined oxidative phosphorylation deficiency 12 (COXPD12). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]