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Product datasheet for RC224966L4V

MARS2 (NM_138395) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	MARS2 (NM_138395) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MARS2
Synonyms:	COXPD25; MetRS; mtMetRS
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_138395
ORF Size:	1779 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC224966).
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_138395.2
RefSeq Size:	3102 bp
RefSeq ORF:	1782 bp
Locus ID:	92935
UniProt ID:	Q96GW9
Cytogenetics:	2q33.1
Domains:	tRNA-synt_1
Protein Families:	Druggable Genome

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Protein Pathways: Aminoacyl-tRNA biosynthesis, Selenoamino acid metabolism

MW: 66.6 kDa

Gene Summary: This gene produces a mitochondrial methionyl-tRNA synthetase protein that is encoded by the nuclear genome and imported to the mitochondrion. This protein likely functions as a monomer and is predicted to localize to the mitochondrial matrix. Mutations in this gene are associated with the autosomal recessive neurodegenerative disease spastic ataxia-3 (SPAX3). [provided by RefSeq, Apr 2014]