

Product datasheet for **MR215616L4V**

Fars2 (NM_001039189) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Fars2 (NM_001039189) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Fars2
Synonyms:	Fars1; pheRS
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001039189
ORF Size:	1353 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR215616).
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_001039189.1
RefSeq Size:	1507 bp
RefSeq ORF:	660 bp
Locus ID:	69955
Cytogenetics:	13 A3.3



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Gene Summary:

Is responsible for the charging of tRNA(Phe) with phenylalanine in mitochondrial translation. To a lesser extent, also catalyzes direct attachment of m-Tyr (an oxidized version of Phe) to tRNA(Phe), thereby opening the way for delivery of the misacylated tRNA to the ribosome and incorporation of ROS-damaged amino acid into proteins (By similarity).[UniProtKB/Swiss-Prot Function]