

Product datasheet for **MR211342L4V**

Aars (NM_146217) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Aars (NM_146217) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Aars
Synonyms:	AI316495; C76919; sti
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_146217
ORF Size:	2907 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR211342).
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_146217.3 , NP_666329.2
RefSeq Size:	3728 bp
RefSeq ORF:	2907 bp
Locus ID:	234734
UniProt ID:	Q8BGQ7
Cytogenetics:	8 E1



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Gene Summary:

Catalyzes the attachment of alanine to tRNA(Ala) in a two-step reaction: alanine is first activated by ATP to form Ala-AMP and then transferred to the acceptor end of tRNA(Ala) (PubMed:16906134, PubMed:20010690, PubMed:25422440, PubMed:27622773). Also edits incorrectly charged tRNA(Ala) via its editing domain (PubMed:16906134, PubMed:20010690, PubMed:25422440, PubMed:29769718).[UniProtKB/Swiss-Prot Function]