

Product datasheet for MR211342L4

Aars (NM_146217) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Aars (NM_146217) Mouse Tagged Lenti ORF Clone

Tag: mGFP Symbol: Aars

Synonyms: Al316495; C76919; sti

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

Sgfl-Mlul

E. coli Selection: Chloramphenicol (34 ug/mL)

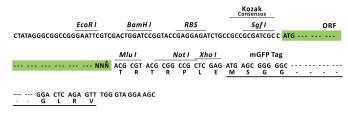
ORF Nucleotide The ORF insert of this clone is exactly the same as(MR211342).

Sequence:

derice.

Restriction Sites: Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_146217

ORF Size: 2907 bp



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Aars (NM_146217) Mouse Tagged Lenti ORF Clone - MR211342L4

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.

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: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. 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 146217.3</u>, <u>NP 666329.2</u>

 RefSeq Size:
 3728 bp

 RefSeq ORF:
 2907 bp

 Locus ID:
 234734

 UniProt ID:
 Q8BGQ7

 Cytogenetics:
 8 E1

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]