

Product datasheet for **MC222885**

Aars (NM_146217) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aars (NM_146217) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aars
Synonyms:	A1316495; C76919; sti
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC222885 representing NM_146217
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGCCACTTTAACAGCAGAGAGATCCGAGAGCGGTTTATAAATTTCTTCAGACGAAATGAGCACA
 CCTATGTCCACTTCCGCCACCATCCCTCGGATGACCCCACTCTGCTCTTCGCCAACGCTGGCATGAA
 CCAGTTCAAACCCATCTTCTAAACACAATCGACCCATCTCACCCATGCGGAAGCTGAGCAGAGCTGCC
 AATACCCAGAAATGCATCCGAGCTGGGGCAAGCACAACGACCTGGATGACGTGGCAAGGATGTCTACC
 ACCACACTTTCTTTGAGATGCTGGGCTCCTGGTCTTTGGGGACTATTTCAAGGAATTGGCATGTAAGAT
 GGCCCTGGAACCTCTTACCCAGGAGTTTGGTATCCAGTTGAAAGACTCTATGTCACCTACTTTGGTGGT
 GATGAGGCGGCCGCTAGAGCCAGATCTGGAGTCAGACAGATTTGGCAAAATTTAGGACTGGATGAAG
 CCAGAATCTCCCTGGCAACATGAAGGACAATCTGGGAGATGGGTGACACAGGCCCTGTGGTCCCTG
 CAGCGAGATCCACTATGACCGCATTGGTGGCAGGGACCCGCGCACCTTTGTCAACCAGGATGACCCCAAT
 GTGCTGGAGATCTGGAACCTCGTGTTCATCCAGTATAACAGGGAGTCGGATGGTGTCTGAAACCTTTC
 CCAAGAAAAGCATCGACACAGGGATGGGCCTAGAGAGGCTGGTGTCTGTGCTGCAGAACAAGATGTCCAA
 CTACGACACCGACCTTTTCATGCCTTACTTCGAAGCCATTGAGAAGGACACCGGCCCGCCGGCGTATACT
 GGAAGGTTGGTGTGAGGATGCAGACGGAATCGACATGGCCTACCGGGTCTGGCTGACCACGCCCGGA
 CCATCACTGTGGCGCTGGCTGATGGCGGCCGCTGACAACACAGGACGGGGTACGTGCTGAGACGGAT
 CTTTCGCCGAGCTGTTCCGTATCCCATGAGAACTGAATGCCAGCAGGGTTTCTTCGCTACATTGGTT
 GATGTTGTCGTTCAATCCCTGGGAGACGATTTCTGAGCTGAAGAAGGACCCAGAGATGGTGAAGGACA
 TCATTAATGAAGAAGAGGTGCAGTTTCTCAAGACTCTCAGCCGAGGGCGGCATCTCGACCCGAAAAAT
 TCAGAGCTTAGGAGACTGCAAAACCATCCAGGTGACACCGCTTGGCTCCTCTATGATACTTATGGATT
 CCAGTGGACCTCACTGGATTGATTGCTGAAGAGAAGGGCCTGGTGGTAGATATGAATGGCTTTGAGGAAG
 AGAGGAGACTGGCCAGCTGAAGTCACAGGGCAAGGGAGCAGGGGACGAAGACCTCATGCTGGACAT
 TTACGCTATTGAAGAGCTCCGGGCAAAGGGTTGGAGGCCACAGATGATTCTCAAAGTATAACTACCAA
 TCAGACTCCAGTGGTAGCTACGTGTTGAGTGTACAGTGGCTACCGTCTGCTGCTGCGTGGGAAAAGA
 TGTTTGTGGACGAGGTGGTCACTGGCCAGGAGTGTGGAGTGGTGTGACAAAGACCTGTTTCTATGCGGA
 GCAAGGAGGCGAGATCTACGATGAAGGCTACTTGGTGAAGTGCAGCAGCAGTGAAGCAAAACCGAG
 TTTACAGTGAAGAACGCTCAGGTCGAGGCGGGTACGTGCTGCACATAGGAACGATATATGGTAACCTGA
 AAGTGGGGATCAAGTCCGGCTGTTATTGATGAGCCCGCGGAGACCGTCTGAGCAACCACACAGC
 TACACACATCCTCAACTCGCCTTGCCTCGGTGCTTGGGGAAGCGGACCAGAAAGGTTCACTGGTTGCT
 CCTGACCGCTTCGGTTTGAATCACTGCAAGGGAGCCATGTCCACCCAGCAAATCAAGAAGGCTGAAG
 AGATTGTCAATGGCATGATTGAGGCAGTAAGCCTGTCTACACCCAGGATTGTCCCTGGCAGCAGCAAA
 AGCCATCCAGGGCCTTCGAGCTGTGTTGATGAGACCTATCCTGACCCGTTTCGAGTCTGCTCCATTGGG
 GTCCCGTGTGAGAGCTGCTGGATGACCCGTGTGGCCTGCTGGTCCCTTACTTCTGTTGAGTTCTGTG
 GAGGAACACATCTACGAATCTAGCCACGAGGCGCTTTGTGATAGTGACAGAAGAAGCTATTGCCAA
 GGGTATCCGGAGGATTGTTGCTGCACAGGTGCTGAAGCCAGAAGGCTCTCAGGAAGTCAGAAACCTTG
 AAGAAATCTCTCTGCCATGGAGGCAAAGTGAAGGCCAGACTGCACCAACAAGGACGTGCAGAGGG
 AAATTGCTGACCTCGGTGAGGCCCTGGCCACTGCAGTATCCCCAGTGGCAGAAAGATGAACAACGAGA
 GACTCTGAAGTCCCTGAAGAAAGTCAAGGATGACCTAGACCGGGCCAGCAAGGCCGATGTGCAGAAGCGA
 GTGTTAGAGAAGACAAAGCAGCTGATTGACAGCAACCCCAACAGCCGCTGGTCACTCCTGGAGATGGAGA
 GTGGAGCATCGGCCAAGGCCCTGAATGAAGCGTTGAAGCTTTTCAAGACGATTCTCCTCAGACATCTGC
 CATGCTGTTACGGTGGACAATGAGGCTGGCAAGATCACGTGCTTGTGCCAGGTTCCCCAGAATGCAGCC
 AACCGGGGACTGAAAGCCAGCAGTGGTCCAGCAGGTTTCAAGCCTGATGGATGGTAAAGCGGTGGCA
 AGGACATGTCGCCAGGCCACAGGCAAGAACGTGGGCTGCCTCAGGAAGCACTGCAGTGGCTACCTC
 CTTGCCAGCTCCGTCTGGGAGATGTGAAGA**CTGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_146217
Insert Size:	2907 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	NM_146217.4 , NP_666329.2
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]