

Product datasheet for MC222967

Aars2 (NM_198608) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aars2 (NM_198608) Mouse Untagged Clone
Tag: Tag Free
Symbol: Aars2
Synonyms: Aarsl; AlaRS; Gm89
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC222967 representing NM_198608
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGTGGCGTTGGCTGCCGAGCCGGTAAGCTGCGGCGAGCCATTGGGAGGTCGTGCCCATGGCAGC
 CTTTCTCAACCGAGCCCGGTCCACCCACGGAGCGCCGTGCGGGACGCCTTCTGAGCTTCTCCGAGA
 TCGCCACGGCCACCGCTCGTGCCTCCGCTACCGTGAGGCGCGCGGACCCAGCCTGCTTTTCGTC
 AATGCAGGCATGAACCAGTTCAAGCCCATCTTCTGGGCAGGTGGATCCACGAAGTGAGATGGCAGGCT
 TCCGACGTGTAGTTAATAGCCAGAAGTGTGTGAGGCTGGAGGACGCCATAACGACTGGAGGATGTGGG
 GCGTGATCTCTCATCATACGTTTTTCGAGATGCTTGGCAACTGGGCTTTCGGGGTGAATATTTAAG
 GAGGAAGCTGTAGCATGGCCTGGGAATTCTGACTCAAGTCTACGGGATCCCTGAGGACAGGTTGTGGG
 TCTCTACTTTCAGTGGTACTCCAGACAGGACTGGACCCAGACCTGGAGACCAGAGACATCTGGTAAG
 CTTGGGAGTGCCTGCCAGCCGTGTGCTCTCCTTCGGACCACAAGAGAAGTCTGGGAGATGGGAGACT
 GGGCCTTGTGGCCTTGTACTGAGATCCACTATGACCTGGCTGGGGCGTGGGAAGCCCCAGCTGGTAG
 AGCTTTGGAATCTGGTCTTCATGCAACTACAGAGAGGCAGATGGAAGCCTGCAGCTGCTGCCGACGC
 ACATGTAGACACAGGAATGGCCTGGAAGGCTGGTGGCCGTCTGCAAGGCAAACGTTCCACCTACGAC
 ACCGACCTTTCTCCACTGCTCGACGCCATACACCAGAGCTGCGGGGCTCCCCCTACTTGGCCGGG
 TAGGGGCAGCAGATGAGGGACGGATAGACACAGCGTACCGAGTGGTAGCCGATCACATCCGCACACTCAG
 TGTCTGCATTGCTGACGGTGTCTCCCGGGGATGTCAGGTGCCCGCTAGTTCTCCGTCGGATTCTCCGC
 CGAGCTGTGCGCTATTCCACAGAGGCTTGCAGGCACCTCCTGGCTTTCTAGGCAGCCTGGTGCCAGTGG
 TGGTAGAGACTGGGATCTGCTTATCCAGAAGTGTGAGAAGAAGTCAAGTCAAGTAGCCAGCCTGGTGTG
 AGAGGATGAGGCAGCCTTCTGGCCTCCCTGCAGCGGGCCGGCGGATCATCGATCGACCGTCAAGCGC
 CTGGGCCCTTCTGATTTGTTCCCTGCCAAGTGGCCTGGTATTGTCGCTGTCTGGGAATCTGGGGATT
 CCCTGGACCTGGTGGAGCTGATGCTGGAGGAGAAGGGGTGAAGCTGGACACGGCAGGACTGGAGCAGT
 AGCCAGAAAGGAGCTCAGCACCAGGCGCCAGCAAGCAGAGGCAGATCAGGAGACCGATTGTGCTTGTAT



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GTCCACGCACTGGAGGAGCTGCACCGTCAAGGCATACCCACAACCTGATGACAGCCCAAGTATAACTACA
 CTCTTCACCCCAACGGGGATTATGAGTTTGGCCTCTGTGAGGCCCGGGTGTACAGCTGTATTACAGAGAC
 TGGGACAGCCGTGGCCTCCGTGGGAGCAGGCCAGCGCTGTGGCCTCTATTAGATAGAACCAACTTCTAC
 GCTGAACAAGGGGGTCAGGCTTCAGACCGAGGCTACCTTGTCCGTACAGGGCAGCAGGACATGTTGTTCC
 CTGTGGCTGGGGCTCAGCTCTGTGGGGTTTTATCCTGCATGAGGCCATGGCTCCCGAGCGCCTACAGGT
 GGGGGATCAAGTGCAGCTGTATGTAGATAAGGCCTGGCGAATGGGATGCATGGTGAAGCACACGGCCACC
 CACCTGCTGAGCTGGGCCCTTCGGCAGACCCTCGGACCGACCACCGAGCAGCGGGGCTCCCATCTCAACC
 CCGAGCGGCTGCGCTTTGACGTGGCCACCAGACCCTACTAACCACAGAGCAGCTACGGACAGTAGAGAG
 CTACGTGCAGGAAGTCGTGGGGCAGGATAAGCCTGTGTTTCATGGAGGAAGTGCCCTGGCACACACTGCC
 CGCATCCCGGCCTTCGCTCACTGGATGAGGTGTACCCAGACCCCGTCCGGGTGGTGTCCGTTGGGGTTC
 CTGTTGCCACGCACTGGGGCCAGCCTCCAGGCTGCAATGCACACCTCCGTGGAGCTGTGCTGTGGGAC
 GCACCTGCTAAGTACCGGGCCGTGGGAGACTTGGTGATCATTGGGGAACGGCAGCTGGTCAAGGGCATC
 ACTCGCCTACTGGCCATCACTGGGAGCAGGCCAACAGGCCGAGAGGTAGGCCAGAGCCTGTCTCAGG
 AGGTGGAAGCAGCCAGCAGCGACTAAGTCAGGGCAGCCGAGACCTGCCGAAGCTACCCGGCTATCTAA
 GGACATAGGACGCTCACCGAGGTAGCAGAGTCTGCTGTGATACCTCAGTGGCAACGGCAGGAGCTGCAG
 ACCACACTGAAGATGCTACAGCGCGTGCACAACTGCCATCCGAAACTGGAGAAGGGCCAGGCTACAG
 AGAAATCCAGGAGCTGTGAAACGACACTCGGAGGGGCCTCTGATTGTGGACACTGTCTCTGCCGAGTC
 CCTCTCAGTGCTGGTAAAGGTGCTGCGGCAGCTGTGAAAACAGGCCCTAGCATATCCGTGCTGCTGCTC
 AGCCCCAGCCCACTGGCAGTGTCTGTGTGCCTGCCAGGTGGCCAGGATGCCACGCCACCTTCACTG
 CTGAAGCTGGGCACTGGCTGTGTGCAGCCACATGGGAGGCAAGGCGTGGGGCTCCAGAGTGGTAGCTCA
 GGGGACTGGACACACGGCTGACCTGGAGGCCCGCTCGGGACAGCCCGAGCTTACGCACTCAGCCAGCTC
 TGA

ACGCGTACGCGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_198608
- Insert Size:** 2943 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:**
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_198608.2](#), [NP_941010.2](#)
- RefSeq Size:** 3368 bp
- RefSeq ORF:** 2943 bp

Locus ID: 224805

UniProt ID: [Q14CH7](#)

Cytogenetics: 17 B3

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). Also edits incorrectly charged tRNA(Ala) via its editing domain.[UniProtKB/Swiss-Prot Function]