

Product datasheet for **RN209761**

Aars (NM_001100517) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aars (NM_001100517) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Aars
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>RN209761 representing NM_001100517

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTCCACTCTAACAGCAGAGAGATCCGAGAGCGGTTTATAAATTATTTCAAACGAAATGAGCACA
 CCTATGTCCACTCTCCGCCACCATCCCTCTGGACGACCCACCTTGCTCTTCGCCAACGAGGCATGAA
 CCAGTTCAAACCCATCTTCTAAACACAGTAGACCTTCTCACCCCATGGCAAAGCTGAGCAGAGCTGCC
 AATACCCAGAAGTGATCCGAGCCGGGGCAAACACAATGACCTGGATGACGTGGGCAAAGATGTCTACC
 ACCACACCTTCTTTGAGATGCTGGGCTCTGGTCTTTGGGGACTATTTTAAGGAATTGGCATGTAAGAT
 GGCTCTGGAACCTCTTACCCAGGAGTTTGGTATTCAGTTGAAAGACTCTATGTTACTTACTTTGGTGGG
 GATGAGGCAGCCGCCTAGAGCCAGATCTGGAGTGTAGACAGATCTGGCAAAATTTAGGACTGGATGAAG
 CCAAAATCTCCCTGGCAACATGAAGGACAATCTCTGGGAGATGGGTGACACGGGCCCTGTGGTCCCTG
 CAGTGAGATCCACTATGACCGCATTGGTGGCAGGGACGCTGCACACCTTGTCAACAGGATGACCCCAAT
 GTGCTAGAGATCTGGAATCTCGTGTTATCCAATATAACAGGGAATCTGATGGTGTCTGAAACCTCTCC
 CCAAGAAAAGCATTGACACAGGGATGGGCTGGAGAGATTGGTGTCTGTGCTGCAGAACAAAGATGTCCAA
 CTATGACACTGACCTTTTCGTTCCCTTACTTCGAAGCCATTGAGAAGGTACAGGCGCCCGGCCGTATACT
 GGGAAAGTTGGTGTGCTGAGGACACTGATGGAATTGACATGGCCTACAGGGTTCTGGCTGACCACGCCCGGA
 CCATCACTGTGGCGCTGGCTGATGGCGGGCAGCTGACAAACAGGTGCGGGGTATGTGCTGAGACGGAT
 CTTTCGCCGAGCTGTTTCGCTATTCACGAGAACTGAACGCCAGCAGGGGTTTCTTCGCCACATTAGTT
 GATGTTGTCGTTCAATCCCTGGGAGACGCTTCTCAGACTCTCAGCAGAGGGCGGCATCCTGGACCGGAAAT
 TCAGAGCTTAGGAGACTGCCAAACCATCCAGGTGATACCGCTTGGCTCCTCTATGATACTTACGGATTCT
 CCAGTGGATCTCACTGGATTGATTGCTGAAGAGAAGGGCCTGGTGGTAGATATGGATGGCTTTGAAGAAG
 AGAGGAACTGGCCAGCTGAAGTCACAGGGCAAGGGGGCAGGGGGCAAGACCTCATGCTGGACAT
 TTATGCGATTGAAGAATCCGGGCAAAGGGTTTGGAGGCCACAGATGATTCTCAAAGTATAACTACCAT
 TCAGACTCCAGTGGTAGCTATGTGTTGAATGTACAGTGGCTACCGTCTTGTCTGCGTAGGGAAAAGA
 TGTTTGTGGACGAGGTGGTCACTGGCCAGGAGTGGGAGTGGTGTGACAAGACCTGTTTCTATGCCGA
 GCAAGGAGGGCAGATCTCGATGAAGGCTACTTGGTGAAGTGCAGCAGCAGTGAAGATAAACTGAG
 TTTACAGTGAAGAATGCTCAGTCCGAGCGGGTATGTGCTGCACATAGGAACAATATATGGTAACCTGA
 GAGTGGGGGATCAAGTCCGGCTGTTTATTGACGAGCCCGACGAAGACCTGTGATGAGCAACCATACAGC
 TACACACATCCTGAACCTCGCCTTGCCTGCGTGGTGGTGGGATGCAGACCAGAAAGGTTCACTGGTTGCT
 CCTGACCGCCTTCGGTTTGACTTCACTGCCAAGGGAGCCATGTCCACGGAGCAAATCAAGAAGACTGAGG
 AGATTGTCAATGGCATGATTGAGGCAGCTAAGCCTGTCTACACCTGGATTGTCCCTGGCTGCAGCAAA
 AGCCATCCAGGGCCTTCGAGCTGATTTGATGAGACCTATCCTGACCTGTGCGAGTTGTCTCCATTGGA
 GTCCCACTGTGAGAACTGCTAGATGACCCCTCCGGGCTGCCGGCTCCCTTACTTCTGTTGAGTTTTGTG
 GAGGAACACATCTACGAATTTAGCCATGCAGGAGCTTTCGTGATAGTACTGAAGAAGCCATTGCCAA
 GGGTATCCGACAGGATTGTTGCTGTACAGGTGCTGAAGCCAGAAGGCCCTCAGGAAGTCAGAAACCTTG
 AAGAAATCTCTCTCGGCCATGGAGGTCAAAGTGAAGGCCAGTCTGCACCAACAAGGATGTGCAGAAGG
 AAATTGCTGACCTTGGTGAAGTCTGGCCACTGCAGTCATTCCCCAGTGGCAGAAAGATGAACAACGGGA
 GACTTTGAAATCCCTGAAGAAAGTCATGGATGACCTAGACCGGGCCAGCAAGGCCGATGTCCAGAAGCGA
 GTGTTAGAGAAGACTAAGCAGCTGATTGACAGCAACCCCAACAGCCTCTGGTATCCTGGAGATGGAGA
 GCGGTGCATCGGCCAAGGCCCTGAATGAAGCTTTGAAGCTTTTCAAGACACATTCTCTCAGACATCTGC
 AATGCTCTTCACAGTAGACAATGAGGCTGGCAAGATCACATGCTTGTGTCAGGTTCTCAGAATGCAGCC
 AACCGGGGGCTAAAAGCCAGCAGTGGGTCCAGCAGGTTTCAGGCCTGATGGATGGTAAAGGTGGTGGGA
 AGGACATGTCTGCCAGGCCACAGGCAAGAACGTGGGCTGCCTTCAGGAAGCACTGCAGCTGGCTACTTC
 CTTTGCCAGCTCCGTCTCGGAGATGTAAGA**ACTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001100517
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:	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_001100517.1, NP_001093987.1</u>
RefSeq Size:	3363 bp
RefSeq ORF:	2907 bp
Locus ID:	292023
UniProt ID:	<u>P50475</u>
Cytogenetics:	19q12
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]