

Product datasheet for **SC216616**

Alanyl tRNA synthetase 2 (AARS2) (NM_020745) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Alanyl tRNA synthetase 2 (AARS2) (NM_020745) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	AARS2
Synonyms:	AARSL; COXPD8; LKENP; MT-ALARS; MTALARS
ACCN:	NM_020745
Insert Size:	1846 bp



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Insert Sequence: >SC216616 3'UTR clone of NM_020745
 The sequence shown below is from the reference sequence of NM_020745. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GCCCAAACCTATGCCCTCAGCCAGCTCTGACCCAGGTCCGCCAGGGACCCACATGGACTAAAGGCAAT
GCCAGGAGCCCTGAAGGAGCCAGCAGAACCCTCCACATGCTGAAGCGAGGACTAGAGGCTGGAGGCCA
AGCAGCTGAGCCAAAGAAGATCACCTGGGCCAGGGCTACGTGACACAAGGAGACATGGGCTAGGGGAAAG
GCAGAAGTGGGCCAAAGACACACACCCCTTGGTGAAAGAGAAGACATGGACAATTATGGCTGTGACT
GCACATTAGAAATATTTCACTGGCCGGGTGTGGTGGTTCACACCTGTAATCCAAGCACTTTGGGAGGC
CGAGGCAGGTAGATCATGAGGTCAGGAGATCAAAACCATCCTGGTAACATGGTGAACCCCATCTCTA
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GCAGAAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCAGTGGGCCAAGATCGCACCCTGCACTCCAGC
CTGGGTGACAGAGCGAGACTCTGTCTCAAATAATTATTTACAGAGGATAGCAAGCTCCAGAAGGTTCT
ATTACCTTTAAAAAAGAGTAGTTTTGCCCTCCAGCAACCTAAGACCAGTCTGAACTCACACTGTCTG
AAAGGCCACCCAGGATCCAAATCGGGCCATCTTCATTGCCATGAGTGTTCCGACAGGCTCTGCGTGCCA
GGCAACAGTGGGCAGACAAAGGGCTCCCTGGCTACTGGGAAGATACAGAACCATCCTGTGAAATCATT
TCAGCACTGGAGACCTTCTTTGCTATTACTTCTTTCAATCAACATGACCTCTAATTTAAATTGGGCCCT
GCTGGTTTGTGATGAATTGAGCAACTGAGAACGTGGCGGGCACTAACTGACAGTTCCTTCCTTCATG
GAGCCTGCTTCATGTGGAGGAAACAGGAAATAAGCAAAAGAAGAGGGTCAGGCTTGGTGGCTCATGCC
TATAATCCTGGCATTTTAGGAGGCTGAGGTTGGAGAATCGCTTGAGGCCAGAAGTGAAGCCAGGCTG
CGCAAACAGCAAGACCCTGTCTACAAAAAAGTAATCTTTATGCCTCAGCCTCCAGGTAGC
TGAGACTACCCACACCTTGGTCCAGCTACTTGGGAGGCTGAGGTGGGAAATCACTTTGCCAGGAAT
TCAAGGCCGAGTGAAGTATGATTGCACCACTGCACTCCAGGCAACAGAGTGAAGCCCTGTCTTAAAAA
AAAGAAGGGAGAAAGTGTGATGAGTGTGAGGCTGGGGGGGAAATAGAGAATGGGGATCAGGAGTGT
GGATGGTATATCCCTCACCAAGAGGTGACATGTGAGCAGGGAGCTGGGAGGTGAGGTTGACCCGT
GTGAAATCAGGGAAAAGCATTCCAGCCTGAGGGAACAGCCAATGCAGAGCCGTGAGGTGGCCAGTGC
CACTGAGCAGTGAAGTGGATAGGGCAGGTGAGGAGGCTGGAGAGCGGGGTGAGACAAACAATATGCT
TATTAACAAGTTGTACAGCACCTGCCTCAAGCCTGAGCTGAAGCTGAAAATTGGCACTTCAAAGCAG
GAGGAAGCAGAGATGGAGGAAAGCCCTCCCTCCCTACCAGAATGAGTCCACCTCAGACAGCCAGACTTT
GGACCTCTGCCTTTGTTCTAGATCTCTGTTGCTAGATGAAGGAAAGGGCCTCAGGGGATCCATCTTCA
AATCAAGGGCTCCCTGGCTACCAAATTCTGTCTAGTAAAAATTATTTCGAGCA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_020745.4](#)

Summary: The protein encoded by this gene belongs to the class-II aminoacyl-tRNA synthetase family. Aminoacyl-tRNA synthetases play critical roles in mRNA translation by charging tRNAs with their cognate amino acids. The encoded protein is a mitochondrial enzyme that specifically aminoacylates alanyl-tRNA. Mutations in this gene are a cause of combined oxidative phosphorylation deficiency 8. [provided by RefSeq, Dec 2011]

Locus ID: 57505

MW: 67.8