

Product datasheet for **SC118328**

Arginyl tRNA synthetase (RARS) (NM_002887) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arginyl tRNA synthetase (RARS) (NM_002887) Human Untagged Clone
Tag:	Tag Free
Symbol:	Arginyl tRNA synthetase
Synonyms:	ArgRS; DALRD1; HLD9; RARS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC118328 sequence for NM_002887 edited (data generated by NextGen Sequencing)

```
ATGGACGTA CTGGTGTCTGAGTGCTCCGCGCGGCTGCTGCAGCAGGAAGAAGAGATTAAATCTCTGACTGCTGAAATTGACCGGTTGAAAACTGTGGCTGTTTAGGAGCTTCTCCAAATTTGGAGCAGTTACAAGAAGAAAAATTTAAATTAAGTATCGACTGAATATTCTTCGAAAGAGTCTTCAGGCAGAAAAGGAACAAACCACTAAAAATATGATTAACATTATTAGCCGCCTACAAGAGGCTTTTGGTCATGCAATTAAGGCTGCATATCCAGATTTGGAAAACTCCTCCTCTGCTAGTGACACCAAGTCAGCAGGCCAAGTTTGGGGACTATCAGTGAATAGTGCTATGGGTATTTCTCAGATGCTCAAAACCAAGGAACAGAAAGTTAATCCAAGAGAAATTGCTGAAAAACATTACCAAAACACCTCCCAGACAATGAATGTATTGAAAAAGTTGAAATTGCTGGTCTCCTGTTTATTAATGTCCACTTAAGAAAGGATTTGTATCAGAACAATTGACCAGTCTTCTAGTG AATGGAGTTCAACTACCTGCTCTGGGAGAGAATAAAAAGTTATAGTTGACTTTTCTCCCTAATATAGCTAAAGAGATGCATGTAGGCCACCTGAGGTCAACTATCATAGGAGAGAGTATAAGCCGCCTTTTGAATTTGCAGGGTATGACGTGCTCAGGTTAAATCATGTAGGAGACTGGGGGACCCAGTTTGGCATGCTCATCGCTCACCTGCAAGACAAATTTCCAGATTATCTACAGTTTACCTCCTATTGGGGATCTTCAGGTCTTTTATAAGGAATCTAAGAAGAGGTTTGATACTGAGGAGGAATTAAGAAGCGAGCATATCAGTGTGTAGTTCTGCTCCAGGGTAAAAACCCAGATATTACAAAAGCTTGGAAAGCTTATCTGTGATGCTCCCGCCAAGAGTTAAATAAAATCTATGATGCATTGGACGTCTCTTAAATAGAGAGAGGGGAATCCTTCTATCAAGATAGGATGAATGATATTGTAAGGAATTTGAAGATAGAGGATTTGTGCAGGTGGATGATGGCAGAAAGATTGATTTGTCCCAGGGTGTCCATACCATTAAACCATAGTAAAATCAGATGGAGTTATACCTATGATACATCTGACCTGGCTGCTATTAACAAAGACTATTTGAGGAAAAA GCAGATATGATTATCTATGTTGTGGACAATGGACAATCTGTGCACTTCCAGACAATATTTGCTGCTGCTCAAATGATTGGTTGGTATGACCCTAAAGTAACTCGAGTCTTCCATGCTGGA TTTGGTGTGGTGTAGGGGAAGACAAGAAAAAGTTTAAAACACGTTCCGGGTGAAACAGTGCGCCTCATGGATCTTCTGGGAGAAGGACTAAAACGATCCATGGACAAGTTGAAGGAAAAA GAAAGAGACAAGGTCTTAACTGCAGAGGAATTGAATGCTGCTCAGACATCCGTTGCGTATGGCTGCATCAAATATGCTGACCTTTCCATAACCGGTTGAATGACTACATCTTCTCCTTTGACAAAATGCTAGATGACAGAGGAAATACAGCTGCTTACTTGTGTATGCCTTCACTAGATCAGGTCTATTGCACGTCTGGCCAATATTGATGAAGAAATGCTCCAAAAAGCTGCTCGA GAAACCAAGATTCTTTTGGATCATGAGAAGGAATGGAAACTAGGCCGGTGCAATTTACGGTTCCCTGAGATTCTGCAAAAGATTTTAGATGACTTATTTCTCCACTCTCTGTGATTATATATATGAGCTGGCAACTGCTTTACAGAGTTCTATGATAGCTGCTACTGTGTGGAGAAA GATAGACAGACTGAAAAATATTGAAGGTGAACATGTGGCGTATGCTGCTATGTGAAGCATGAGCTGCTGTCATGGCCAAGGGTTTGATATCCTGGGAATAAAACCTGTCCAAAGGATGTAA
```

Clone variation with respect to NM_002887.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002887 unedited
 TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGAGACGCTGATGGGAGGA
 TGGACGTACTGGTGTCTGAGTGTCCGCGCGGCTGCTGCAGCAGGAAGAAGAGATTAAT
 CTCTGACTGCTGAAATTGACCGTTGAAAACTGTGGCTGTTAGGAGCTTCTCCAAATT
 TGGAGCAGTTACAAGAAGAAAATTTAAATTAAGTATCGACTGAATATTCTTCGAAAGA
 GTCTTCAGGCAGAAAGGAACAAACCACTAAAAATATGATTAACATTATTAGCCGCTAC
 AAGAGTCTTTGGTCATGCAATTAAGGCTGCATATCCAGATTTGGAAAACTCCTCCTGTC
 TAGTGACACCAAGTCAGCAGGCCAAGTTTGGGGACTATCAGTGAATAGTGTATGGGTA
 TTTCTCAGATGCTCAAAACCAAGGAACAGAAAGTTAATCCAAGAGAAATTGCTGAAAACA
 TTACCAACACCTCCCAGACAATGAATGTATTGAAAAAGTTGAAATTGCTGGTCTCGTT
 TTATTAATGTCCACTTAAGAAAGGATTTTGTATCAGAACAATTGACCAGTCTTCTAGTGA
 ATGGAGTTCAACTACCTGCTCTGGGAGAGAATAAAAAGTTATAGTTGACTTTTCTCCC
 CTAATATAGCTAAAGAGATGCATGGTAGGCCACCTGAGTCAACTATCATAGGAGAGAGTA
 TAAGCCGCTCTTTGAATTGCAGGGTATGACGTGCTCANGTTAAATCATGTANGAGACTG
 GGNACCCAGTTNGNCATGCTCATCGCTCACCTGCAGAAACAAATTTAGATTATCTACA
 GTTTCACCTCCTATTGGGGATCCTCAAGTCTTTTATAGGATCTAANNAGAGTTTGTAC
 TNGAGAGGAATTAAGAGCGAGCTATCATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002887 unedited
 GGCCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTGGTTGACAAATTTTCTTTACT
 TATGCTTGTGTCCACATGATTGTAAGAAAGCAAACAGTGCCAATGGCCACTTTGGTAAAA
 ACACACAGTGTTCAAACCTATGAAGGATTACATCCTTTGGACAGTTTTTATCCCAGGAT
 ATCAAACCCCTTGCCATGACAGCAGCTACTGTTCCATAGCAGCATACGCCACATGTT
 CACCTTCAATATTTTCCAGTCTGTCTATCTTTCTCCACACAGTAGCAGCTATCATAGAA
 CTCTGTGAAAGCAGTTGCCAGCTCATATATAATCACAGAGAGTGTGGAGAAATAAGTC
 ATCTAAAATCTTTTGCAATCTCAGGGAACCGTAAAAATGCACCGGCCTAGTTTCCATTC
 CTTCTCATGATCCAAAAGAACTTGGTTTCTCGAGCAGTTTTTGGAGCATTTCTTCATC
 AATATTGGCCAGACGTGCAATAGACCTGATTCTAGTGAAGGCATACAACAAGTAAGCAGC
 TGATTTTCTCTGTCATCTAGCATTTTGTCAAAGGAGAAGATGTAGTCATTCAACCGGTT
 ATGGGAAAGTCAAGCATATTTGATGCAGCCATACGCAACGGATGTCTGAGCAGCATCAA
 TTCTCTGCAGTTAAGACCTTGTCTCTTTCTTTNTCCTTCAACTTGCCATGGATCGTTN
 TAGTCTTCTCCAGAAGACCATGAGGGCAGTNTCACCCGAACGTGTTTTAACTTT
 TTCTTGTCTTCCCTAGCCACACCAATCCAGCATGGAAGATCGAGTACTTTAGGGTCTAC
 CACCCATCATTTGAGCACAGCAATATGGCTGGAGTGCCAGATTGTCCATGTCACAATAG
 AAACATATCGTTTTCTCAATAGNCTTGTATAGCAGCAGTCAGAGTTCATAGTTTACC
 TCTCTGA

Restriction Sites:

NotI-NotI

ACCN:

NM_002887

Insert Size:

2090 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_002887.3 , NP_002878.2
RefSeq Size:	2154 bp
RefSeq ORF:	1983 bp
Locus ID:	5917
UniProt ID:	P54136
Cytogenetics:	5q34
Domains:	tRNA-synt_1d, N-Arg
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis
Gene Summary:	Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Arginyl-tRNA synthetase belongs to the class-I aminoacyl-tRNA synthetase family. [provided by RefSeq, Jul 2008]