

Product datasheet for **SC122891**

RARS2 (NM_020320) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RARS2 (NM_020320) Human Untagged Clone
Tag:	Tag Free
Symbol:	RARS2
Synonyms:	ArgRS; DALRD2; PCH6; PRO1992; RARSL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_020320 edited
 CGAGGCCGGAAGTGGCGGACTGCGGCGCACTTCCGTAGAGGTGGACATGGCGTGC GGCTT
 TCGCCGCGCTATTGCTTGCCAGCTTTCCAGAGTGTGAATCTTCCACCAGAAAATTGAT
 CACATCAATATCTGCAGTTCCAATTTCCAAAAAGAAGAAGTAGCTGATTTTCAGCTTTC
 TGTGGATTCTTTATTGAAAAAGACAATGACCATTCAAGACCAGATATTCAAGTTCAAGC
 CAAGAGACTAGCAGAGAAGCTAAGATGTGATACAGTGGTGAAGTAAATCAGTACTGGTCA
 AAGGACTGTAAATTTCAAATAAACAGAGAGCTTTAACAAAGACAGTGTACAACAAGT
 AATTGAAGATGGCTCAAATATGGATTA AAAAGTGAAC TTTTCTCTGGACTTCCCCAGAA
 GAAGATTGTGGTTGAATTCAGTTCACCTAATGTTGCCAAAAAATTCATGTTGGACATTT
 GCGTTCTACCATCATAGGAAATTTATAGCAAATCTCAAAGAAGCTTTAGGACATCAAGT
 AATAAGAATAAATTACCTTGCGGATTGGGGCATGCAGTTTGGTCTTCTGGGAAGTGGCTT
 CCAGCTGTTTGGCTATGAGGAAAAACTGCAGTCCAATCCTCTACAGCATCTCTTTGAAGT
 TTATGTACAAGTTAATAAAGAAGCAGCAGATGATAAAAGTGTAGCAAAGCAGCACAGGA
 GTTCTTCCAACGATTGGAAGTGGCGATGTGCAAGCACTTCACTGTGGCAAAAAATTCG
 GGACTTGAGCATTGAAGAGTACATTCGGGTTTACAAGCGTCTGGGAGTATATTTTGATGA
 ATATTCAGGAGAAATCATTATTCGTGAAAAATCTCAAGAGGTCTTAAAGTTGCTGGAGAG
 TAAAGGACTCCTACTGAGAAACAATAAAAGGAACGGCTGTAGTAGATCTCTCTGGGATGG
 CGACCCCTCCTCAATTTGTAAGTGAATGCGAAGTATGGGACTTCTCTCTATGCAACCAG
 AGATCTTGCGAGCTGCTATAGATCGAATGGACAAGTATAATTTTGATACAATGATATATGT
 GACAGATAAAGGACAAAAAAGCATTTCAGCAAGTATTCCAAATGCTGAAGATCATGGG
 ATATGACTGGGCAGAAAGGTGCCAGCACGTGCCCTTTGGAGTAGTACAGGGAATGAAGAC
 TCGAAGAGGAGATGTCACTTTCTGGAAGATGTTTTAAATGAGATTCAATTAAGGATGCT
 ACAGAACATGGCTTCAATTAAGACAATAAAGAAGTCAAGAACCCACAAGAGACTGCAGA
 AAGGGTTCGGGCTCGCAGCACTCATTATTCAGGACTTCAAAGGTTTACTCTTATCTGACTA
 CAAGTTACAGTGGGATCGTGT TTTCCAGAGTTCGCGGGACACAGGAGTCTTCTACAGTA
 CACACACGCCCGCTCCACAGTTTGAAGAGACTTTTGGATGTGGGTACCTGAATGACTT
 CAACACTGCTTGT TTTACAAGAGCCACAGTCTGTTTCAATCTTTCAGCATCTTCTCAGGTT
 CGACGAGGTGCTTTATAAATCATCTCAGGACTTTCAACCCAGGCATATCGTCAGTTACCT
 TCTAACTTTAAGTCATCTTGCAGCTGTGGCACACAAAACACTACAATAAAAGATAGTCC
 TCCTGAAGTGGCTGGGGCCAGACTTCATCTTTCAAAGCTGTCCGTTCTGTCTAGCCAA
 TGAATGAAACTTCTTGGATAACACCTGTATGTAGGATGTAATTTCCATTAAAAATGGCT
 TTTAAATGTCAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_020320 unedited
 NGGCGTCTGGATTTGTAATACGACTTTTATGGGCGCCGCGAAATTCGCACGAGGCGAGG
 CCGGAAGTGGCGGACTGCGGCGCACTTCCGTAGAGGTGGACATGGCGTGC GGCTTTCGCC
 GCGCTATTGCTTGCCAGCTTTCCAGAGTGTGAATCTTCCACCAGAAAATTGATCACAT
 CAATATCTGCAGTTCCAATTTCCAAAAAGAAGAAGTAGCTGATTTTCAGCTTTCTGTGG
 ATTCTTTATTGAAAAAGACAATGACCATTCAAGACCAGATATTCAAGTTCAAGCCAAGA
 GACTAGCAGAGAAGCTAAGATGTGATACAGTGGTGAAGTAAATCAGTACTGGTCAAAGGA
 CTGTAAATTTCAAATAAACAGAGAGCTTTAACAAAGACAGTGTACAACAAGTAAATTG
 AAGATGGCTCAAATATGGATTA AAAAGTGAAC TTTTCTCTGGACTTCCCCAGAAGAAGA
 TTGTGGTTGAATTCAGTTCACCTAATGTTGCCAAAAAATTCATGTTGGACATTTGCGTT
 CTACCATCATAGGAAATTTATAGCAAATCTCAAAGAAGCTTTAGGACATCAAGTAAATAA
 GAATAAATTACCTTGCGGATTGGGGCATGCAGTTTGGTCTTCTGGGAAGTGGCTTCCAGC
 TGTTTGGCTATGAGGAAAAACTGCAGTCCAATCCTCTACAGCATCTCTTTGAAGTTTATG
 TACAAGTTAATAAAGAAGCAGCAGATGATAAAAGTGTAGCANAAGCAGCACAGGAGTTCT
 TCCAACGATTGGAAGTGGCGATGTGCAAGCACTTCACTGTGGCAANATTNCGGNNA
 TGAGCATTGAAGAGTACATTCGGNNTTACAAGCGTCTGGGAGTATATNNTTGATGATATT
 CAGGAGAATCATTTNATCGA

Restriction Sites: Please inquire

ACCN:	NM_020320
Insert Size:	1830 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_020320.2 , NP_064716.1
RefSeq Size:	1830 bp
RefSeq ORF:	1737 bp
Locus ID:	57038
UniProt ID:	Q5T160
Cytogenetics:	6q15
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis
Gene Summary:	<p>This nuclear gene encodes a protein that localizes to the mitochondria, where it catalyzes the transfer of L-arginine to its cognate tRNA, an important step in translation of mitochondrially-encoded proteins. Defects in this gene are a cause of pontocerebellar hypoplasia type 6 (PCH6). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (1) encodes isoform 1.</p>