

Product datasheet for **SC210366**

P5CS (ALDH18A1) (NM_002860) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	P5CS (ALDH18A1) (NM_002860) Human 3' UTR Clone
Symbol:	P5CS
Synonyms:	ADCL3; ARCL3A; GSAS; P5CS; PYCS; SPG9; SPG9A; SPG9B
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_002860
Insert Size:	851 bp
Insert Sequence:	>SC210366 3'UTR clone of NM_002860 The sequence shown below is from the reference sequence of NM_002860. 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
CTCCCTATTCTCAGAGAAACACCAACTTGAAAAGAGCCAGGAAAACCCGGGAATTTTCCAAAAGGTCTT
CACGTAAACTTGTCTTATCTCAGGAGAGAGCCCGCTCTGTCTCCAGTTCCTGGTAGGGTCTGCCTG
TTGGAAAGTGTACCTGGATGCTTCTGGGCTCCGTTTGGCAATAGCAGTCTGGCTGATGTGCACAGTCT
GGCTCCCAGCTCACCCCTTTTTTTTAAAGTAAGAAAATAGTTGCTACCGATAGGGACTTTGCCAAGTCC
AATTATCTTCTAGGATTGAAAGGTGCATTTTCCCATAAAAAAGGCGAGGAAAACCCATGGCTGCTTTG
TGTCACCTCAGTGACTTACAGTCCCCCTTGGCATTTAGTTGGTACTAGAGCCAGTCATCCTTAACAAT
CTTTTCACATTTTATTTCTTTCACATGTAGTCATCTTCAAAAAGGAAAGATTTGGAATTTTAGAAAAGG
GGCAACTCTTCTTTTAGCATTCTCATCAGAAAGTCACAAAAATCGATGGAATCATTTTCCACTGGGAAG
ATTGACCTTTTGTATTTATTTGTGGGTAATTAATAAGCATTCCAGATGCTTGCAGCTTCTGCATCC
AGGAGATGCTGTGTTCCCGTGATGCAGCTGGAACCAAGCTGCAGCAGGAGATGCAAGTTTCAGGATG
TTCCCCACTGAGCTGGAGGAATATCTACAGCAGTATGCTTGAATTTTTGTATGAATATTTTGTCTG
CCTACCCCTTTTCTCAAAACAAAAATTAGAGGATTATTTAATACTTTGGATTCTTCCCCTTTTTTG
AGAAATAAAGTTTTTTATGAAAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG

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Restriction Sites: Sgfl-Mlul



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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:	<u>NM_002860.4</u>
Summary:	This gene is a member of the aldehyde dehydrogenase family and encodes a bifunctional ATP- and NADPH-dependent mitochondrial enzyme with both gamma-glutamyl kinase and gamma-glutamyl phosphate reductase activities. The encoded protein catalyzes the reduction of glutamate to delta1-pyrroline-5-carboxylate, a critical step in the de novo biosynthesis of proline, ornithine and arginine. Mutations in this gene lead to hyperammonemia, hypoornithinemia, hypocitrullinemia, hypoargininemia and hypoprolinemia and may be associated with neurodegeneration, cataracts and connective tissue diseases. Alternatively spliced transcript variants, encoding different isoforms, have been described for this gene. [provided by RefSeq, Jul 2008]
Locus ID:	5832
MW:	32