

Product datasheet for **SC321100**

AASDHPPT (NM_015423) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: AASDHPPT (NM_015423) Human Untagged Clone
Tag: Tag Free
Symbol: AASDHPPT
Synonyms: AASD-PPT; ACPS; CGI-80; LYS2; LYS5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_015423.2
GGGGGGGGCCACGTTTCCGTCGCCGCATCAGGCCGAGATAGCGGCGAGGTCCGCTTT
CAGTGTATGGTTTTCCCTGCCAAACGGTTCTGCTTGGTGCCATCCATGGAGGGCGTGCGC
TGGGCCTTTTCCGCGCACTTGGCTGCCGAGCCGAGCCGAATGGCTGCTGGCAGTGCGA
TCGATTACGCCCAGGAGAAGGAGCGCATTGGCCAGTTCGCTTTGCCCGGACGCTAAG
GCAGCCATGGCTGGTCTGCTGATGATAAGGAAATTAGTTGCAGAGAAATTGAATATCCCT
TGAATCATATTCGTTTCAAAGAACTGCAAAAGGAAAACCGATTCTTGCAAAGGACTCA
TCGAATCCTTACCCGAATTTCAACTTTAACATCTCTCATCAAGGAGACTATGCAGTGCTT
GCTGCTGAACCTGAGCTGCAAGTTGGAATTGATATAATGAAGACTAGTTTTCCAGGTCGT
GGTTCAATTCAGAATTTTTCATATTATGAAAAGAAAAGTTTACCAACAAAGAATGGGAA
ACAATCAGAAGCTTTAAGGATGAGTGGACTCAGCTGGATATGTTTTATAGGAATTGGCA
CTTAAGGAAAGCTTCATAAAAGCCATTGGTGTGGACTAGGATTTGAATTGCAGCGGCTT
GAATTTGATCTATCTCCATTAACCTTGGATATAGGCCAAGTTTATAAAGAAACACGTTTA
TTCTGGATGGAGAGGAAGAAAAGAAATGGGCATTTGAGGAAAGCAAAATAGATGAGCAC
CATTTTGTGTCAGTTGCTCTTAGGAAACCCGATGGATCTAGACATCAGGATGTTCCATCT
CAGGATGATTCCAAACCAACCCAGAGGCAATTTACTATTCTCACTTTAATGATTTAATG
TCATCTGCCGTTCCCATGACACCTGAAGATCCTTCATTTGGGACTGTTTTGCTTACA
GAAGAAATCCAATACGAAATGGTACAAAGTCATGATGATTCCTGAGTAACAAAGGAA
ATGAAAAGTGTGTCATCTCCGTTACTGAAAAATAAATGCTTGTGTTAGTATCAA
TTTTATTTACGAAAGTTTTTTTTAAAGAACAGAACTTTTCCAATTAATAAAAAAAAAAGCA
GACTTCTGGTTCAAGATAGCTCACTGGAATACATGTTTACCTCTTTCTTCTAAATTGC
ATTGAATTGATAGGAAGGATGGCGGAATCTTAAAGTGATACATGCTAACTGTAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_015423



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_015423.2</u> , <u>NP_056238.2</u>
RefSeq Size:	2880 bp
RefSeq ORF:	930 bp
Locus ID:	60496
UniProt ID:	<u>Q9NRN7</u>
Cytogenetics:	11q22.3
Domains:	ACPS
Protein Pathways:	Lysine biosynthesis, Lysine degradation, Metabolic pathways
Gene Summary:	The protein encoded by this gene is similar to <i>Saccharomyces cerevisiae</i> LYS5, which is required for the activation of the alpha-amino adipate dehydrogenase in the biosynthetic pathway of lysine. Yeast alpha-amino adipate dehydrogenase converts alpha-biosynthetic-amino adipate semialdehyde to alpha-amino adipate. It has been suggested that defects in the human gene result in pipecolic acidemia. [provided by RefSeq, Jul 2008]