

Product datasheet for **SC114644**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114644 sequence for NM_015423 edited (data generated by NextGen Sequencing)

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ATGGTTTTCCCTGCCAAACGGTTCTGCTTGGTGCCATCCATGGAGGGCGTGCGCTGGGCC
TTTTCTGCGGCACTTGGCTGCCGAGCCGAGCCGAATGGCTGCTGGCAGTGCGATCGATT
CAGCCCGAGGAGAAGGAGCGCATTGGCCAGTTCGTCTTTGCCGGGACGCTAAGGCAGCC
ATGGCTGGTCGTCTGATGATAAGGAAATTAGTTCAGAGAAAATTGAATATCCCTTGAAT
CATATTCGTTTGCAAAGAACTGCAAAGGAAAACCAGTCTTGCAAAGGACTCATCGAAT
CCTTACCCGAATTTCACTTTAACATCTCTCATCAAGGAGACTATGCAGTGCTTGCTGCT
GAACCTGAGCTGCAAGTTGGAATTGATATAATGAAGACTAGTTTTCCAGGTCGTGGTTCA
ATTCCAGAATTTTCATATTATGAAAAGAAAGTTTACCAACAAAGAATGGGAAACAATC
AGAAGCTTTAAGGATGAGTGGACTCAGCTGGATATGTTTTATAGGAATTGGGCACTTAAG
GAAAGCTTCATAAAAGCCATTGGTGTGGACTAGGATTTGAATTGCAGCGGCTTGAATTT
GATCTATCTCCATTAAACTTGGATATAGGCCAAGTTTATAAAGAAACACGTTTATTCCTG
GATGGAGAGGAAGAAAAAGAATGGGCATTTGAGGAAAGCAAAATAGATGAGCACCATTTT
GTTGCAGTTGCTCTTAGGAAACCCGATGGATCTAGACATCAGGATGTTCCATCTCAGGAT
GATTCCAAACCAACCCAGAGGCAATTTACTATTCTCACTTTAATGATTTAATGTCATCT
GCCGTTCCCATGACACCTGAAGATCCTTCATTTGGGACTGTTTTTGCTTACAGAAAGAA
ATTCCAATACGAAATGGTACAAAAGTCATGA
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Clone variation with respect to NM_015423.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015423 unedited
 ATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCGTGCCGAAT
 TCGGCACGAGGAGATAGCGGCGAGGTCCGCTTTCAGTGTATGGTTTTCCCTGCCAAACGG
 TTCTGCTTGGTGCCATCCATGGAGGGCGTGCCTGGGCCTTTTCTGCGGCACCTGGCTG
 CCGAGCCGAGCCGAATGGCTGCTGGCAGTGCATCGATTACGCCGAGGAGAAGGAGCGC
 ATTGGCCAGTTCGTCTTTGCCCGGGACGCTAAGGCAGCCATGGCTGGCCGTCTGATGATA
 AGGAAATTAGTTGCAGAGAAATTGAATATCCCTTGGAAATCATATTCGTTTTGCAAAGA
 ACTGCAAAAGGAAAACAGTTCTTGCAAAGGACTCATCGAATCCTTACCCGAATTTCAACTTT
 AACCATCTCTCATCAAGGAGACTATGCAGTGTCTGCTGTAACCTGAGCTGCAAGTTGG
 AATTGATATAATGAAGACTAGTTTTCCAGGTCGTGGTTCAATTCAGAATCTTTCATAT
 TATGAAAAGAAAGTTTACCAACAAAGAATGGGAAACAATCAGAAGCTTTAAGGATGAGTG
 GACTCAGCTGGATATGTTTTATAGGAATTGGGCACTTAACGAAAGCTCCATAAAAGCCAT
 TGGTGTGGACTAGGATTTGAATTGCAGCGGCTTGAATTTGATCTATCTCCATTA
 AACTGGATATAGCCAAGTTTATAAAGACACACGTCTATTCCCTGGATGCAGACGCAGAAATAG
 AATGGGCATTTGAGGAAAGCAAAATAGATGAGCACCATTTTGTGTCAGTTGCTCTTAAGAA
 ACCCGATGCATCTACACCTCAAGATGTCCTCTTAGGATGATTCCAACCCACAGAGGC
 ATTTATATTCTCACCTTTATGATTTATGCCATCGCCCGTCCATGACACCGAAAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015423 unedited
 ACCTATGCACCGCGCNCGCTTTTCTACGATCGAGTTTTTTTTTTTTTTTTTCCATAAT
 AAATGTTCATTTTTTTATTATTATAATGACAAGACAAAGTTTTTCATATCACCATTACAC
 TCATGCTAGGGATAACAATACTTCTCTATTATAAATGCTACTTGACCTTTATTTACTAT
 GCTTGGCATAACTGGGCATGCTTAATAAAATAAAAAAAAAAACATTCAAATTTTTTCT
 TTTACTAATCGAAGTACCTAATTTTATACAATTTGCACACTTTTAAATGTTAGTAACAGAA
 ACAATGAAATTATTTACTTCTTGATACTTAAGAGTTTAACTCCAAGACATGCACTACAA
 CCACATAATAGATTTTTGTCAATATGATGGTCTGGCATCTTATATATTAAGTTCAC
 ACTTTAAATTAAGTACTACTTGTAAAACGAAAACAGGTAAAAACAATGAACAGACGGTT
 CACGTTAAGAGGAATACGAAAAGCCAATAACAATACTGACATAACAATCTTATTTGACT
 GAACGAAATACAAATTTAAAAATGACATACCATTTTTTAATTACATTGGCAAAAATTA
 ACCAAAAAGAATACCTACAATTGACCAAGGAGTATTCTGGTAGGGGGAGGGACGCTACAT
 CCATCATTTTACTTTTACCAACTTCTCAGGACATAATTAAGCATGTAACCTTCAAAAGTA
 CAGAGAAATTACTCTGCCACTGCTTGCACAACCAATGCAAATATCCAAATGTCTACCAC
 AGAAAAAGGGAGCACACATTGTAACCTTCTTACGGGAGGCCAGGGGCTTCCAATTCCA
 TTTTCAACCTACTAACCTTTTTCTTTAAACAACTCCCTTCAACCCCAACT

Restriction Sites:

NotI-NotI

ACCN:

NM_015423

Insert Size:

2870 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_015423.2 , NP_056238.2
RefSeq Size:	2880 bp
RefSeq ORF:	930 bp
Locus ID:	60496
UniProt ID:	Q9NRN7
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-aminoadipate dehydrogenase in the biosynthetic pathway of lysine. Yeast alpha-aminoadipate dehydrogenase converts alpha-biosynthetic-aminoadipate semialdehyde to alpha-aminoadipate. It has been suggested that defects in the human gene result in pipecolic acidemia. [provided by RefSeq, Jul 2008]