

Product datasheet for **RC239693**

AASDH (NM_001286671) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AASDH (NM_001286671) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AASDH
Synonyms:	ACSF4; LYS2; NRPS998; NRPS1098
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC239693 representing NM_001286671
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTCTTCAGGAATTGGTGCATAAGGCTGCCTCCTGTTATATGGACAGAGTAGCTGTATGTTTTGATG
 AATGCAACAACCACTCCAGTTTACTACACCTACAAGACTGTGGTTAATGCTGCTTCTGAATTATCAAA
 TTTTCTGCTGTTACACTGTGACTTTCAAGGAATTCGGAAATTTGGTCTCTACTGCCAACCTGGGATAGAC
 TTACCCTCTGGATTTTAGGAATTCCTCAAGTCCCGGCTGCTTATGTACCTATCGAGCCAGATTCACCAC
 CGTCATTATCAACTATTTTATGAAAAATGTAATCTAAAGTATATCCTTGTGAAAAAAACAAATTA
 TAAATTTAAATCTTTTCATGAAACATTATTGAACTATGATACATTTACAGTGAACATAATGACCTAGTG
 CTCTTCAGACTTCACTGGAAAAACTGAGGTGAACCTGTGCTAAATGATGGAAAAGAGAAATATGAAA
 AAGAAAAATAAAAGCATAAGTTCTGAGCATGTCAATGAAGAAAAGCAGAAGAACACATGGATCTGAG
 GCTAAAGCATTGCTTAGCCTATGTTCTACATACATCAGGGACTACAGGGATACCGAAGATTGTCAGAGTG
 CCTCATAAGTGTATAGTACCAAATATCCAGCATTTTCGGTACTTTTTGACATCACACAAGAAGATGTTT
 TGTCTGGCTTACCTCTGACCTTCGATCCTTCTGTTGTGAAAATATTTCTTGCTCTATCAAGTGGTGC
 CTCTCTGCTTATTGTACCAACTCCGTCAGTTGCTCCCATCAAATTAGCCAGCGTTCTCTTTCCCAT
 CATAGAGTGACTGTTTTGCAGGCAACACCAACATTGCTTAGAAGATTTGGATCTCAGCTTATCAAGTCAA
 CTGTTTTGTGAGCCACTTCTCTTCGAGTATTAGCCCTTGGTGGTGAAGCGTTTCCATCATTGACAGT
 TCTCAGAAGCTGGAGAGGAGAAGGCAATAAACACAAATTTAATGTTTATGGTATCACAGAGGTATCA
 AGTTGGGCGACCATTTATAGGATCCAGAGAAGACTCTTAACCTACTCTCAAATGTGAATTGCAGGAGG
 AACTGGGATTTCCACTTCTTGAACAGTAGTTGAAGTCAGAGATACTAATGGCTTCAACAATTCAGGAAGG
 CAGTGGCCAAGTATTTTTAGGTGGCAGAAACAGAGTGTGTTTTCTTGATGATGAAGTGACAGTACCACTT
 GGCACAATGCGAGCTACAGGAGACTTTGTGACTGTGAAAGATGGAGAGATTTTTTTTTGGGACGAAAAG
 ACAGTCAGATCAAACGTCATGGCAAACGCTTAAACATTGAACTTGTGCAACAGGTTGCTGAAGAGCTTCA
 GCAAGTGGAGTCTTGTGCAGTTACATGGTATAATCAGGAAAAATTAATTCTTTCATGGTGTCTAAAGAT
 GCTTCAGTAAAAGAATACATCTTAAAGAACTGCAGAAATATCTTCAAGTCATGCAGTCCCGGATGAGC
 TTGTATTGATCGACTCTTACCATTTACATCCCACGGCAAATTTGATGTTTCTGAGTTAAACAAGATATA
 TTTAAACTACATAAACTTGAAGTCTGAGAATAAGCTCAGTGGGAAAGAGGACCTTTGGGAAAAATTACAG
 TATTTGTGGAAGTCTACTCTGAATCTCCAGAAGATCTTTGAGGGTTCTGATGAGTCACTCTTCTTAA
 ATAGTGGTGGAGATTCCTTAAAGTCCATCCGGCTCCTCAGTGAGATTGAAAAACTGTTGGTACATCAGT
 ACCTGGGCTTCTGGAAATATTCTCAGCAGTCCATTTTAGAGATTTATAATCACATCCTCAAACAGTG
 GTTCCAGATGAAGATGTGACATTCAGGAAGAGTTGTGCCAAAAAGGAAACTCAGCGACATTAATCAAG
 AGGAAGCCAGTGGAAACATCTTACATCAGAAAGCCATCATGACTTTCACTTCCACAATGAGATTAATGC
 TTTTGTGTACTGAGCAGAGGGAGTCAAATTTGTCTCTGAATCCACTAGGTTTTTAACAAAGTTAGGA
 CATTGCTCTTTCAGCCTGTCTTCTGACTCAGTTTACAGACCAACATTCAAAATTTGAAAGGCTTAAATT
 CTCCAGTCTTATTGGGAAGTCAAAGATCCATCCTGTGTTGCAAAGTTTCTGAAGAGGGGAAACCTGC
 GATAGGGACTCAGAAAAATGGAGTTACATGTGAGGTGGAGGTCAGACACAGGCAAATGTGTAGATGCTTCA
 CCGCTGGTTGTAATACCACTTTTGATAAGTCATCTACAACGTGTACATTGGTTCCCATCTCATAGAA
 TGAAAGGAGTTGACTTTTACTCTGGGAAGTAAAATGGGAACAGATTTTGGGAGATCGAATTGAATCCTC
 AGCATGTGTATCTAAGTGTGAAACTTTATTGTGGTGGGTTTGGCAGTTCTTACCAGTGGACCAATCTT
 TTCATCCCGTGTACCTCACCATCAGAGCAAAAAATTTTTTTGGTTCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239693 representing NM_001286671
Red=Cloning site Green=Tags(s)

MTLQELVHKAASCYMDRVAVCFDECNNQLPVYYTYKTVVNAASELSNFLLLHCDFQGIREIGLYCQPGID
LPSWILGILQVPAAYVPIEPDSPPSLSTHFMKKNLKYILVEKKQINKFKSFHETLLNYDTFTVEHNDLV
LFRLHWKNTENVMLNDGKEKEYEKEIKSISSEHVNEEKAEHMDLRLKHCLAYVLHTSGTTGIPKIVRV
PHKCIVPNIQHFRVLFIDITQEDVLFASPLTFDPSVVEIFLALSSGASLLIVPTSVKLLPSKLASVLF
HRVTVLQATPTLLRRFGSQLIKSTVLSATTSLRVLALGGEAFPSLTVLRSWRGEGNKTQIFNVYGITEVS
SWATIYRIPEKTLNSTLKCELPVQLGFLLGTVVEVRDTNGFTIQEGSQVFLGGRNRVCFLLDDEVTVPL
GTMRATGDFVTVKDGEIFFLGRKDSQIKRHGKRLNIELVQVAAEELQQVESCAVTWYNQEKLILFMVSKD
ASVKEYIFKELQKYLPSHAVPDELVLIDSLPFTSHGKIDVSELNKIYLNINLKENKLSGKEDLWEKLQ
YLWKSTLNLPELRLVPDESFLNSGGDSLKSIRLLSEIEKLVGTSVPGLEIILSSSILEIYNHILQTV
VPDEDVTRKSCATKRKLSINQEEASGTSLHQKAIMTFTCHNEINAFVVL SRGSQILSLNSTRFLTKLG
HCSSACPSDSVSQTNIQNLKGLNSPVLIGKSKDPSCVAKVSEEGKPAIGTQKMEHLHVRWRSDTGKCV
DAS PLVVIPTFDKSSTTVYIGSHSRMKAVDFYSGKVKEQILGDRIESSACVSKCGNFIVVGLAVLYQW
TNL FIPVYLTIRAKNIFWFP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

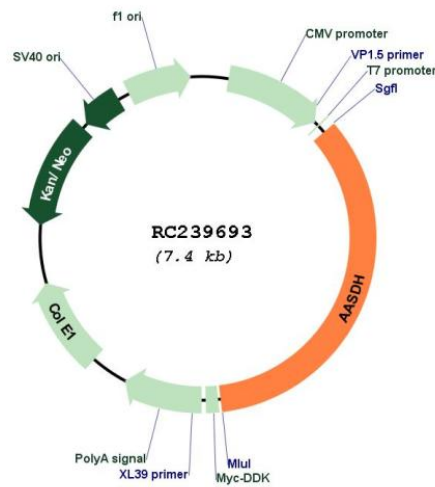
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001286671
ORF Size:	2571 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001286671.1 , NP_001273600.1
RefSeq Size:	3195 bp
RefSeq ORF:	2574 bp
Locus ID:	132949
UniProt ID:	Q4L235
Cytogenetics:	4q12
Protein Pathways:	Lysine biosynthesis, Lysine degradation, Metabolic pathways
MW:	96.7 kDa
Gene Summary:	This gene encodes a member of the non-ribosome peptide syntesase (NRPS) enzyme family. The encoded protein contains an AMP-binding domain, PP-binding (phosphopantetheine, or pantetheine 4'phosphate-binding) domain and the Pyrrolo-quinoline quinon (PQQ) binding domain. The protein is expressed in several adult tissues. [provided by RefSeq, Apr 2016]