

Product datasheet for **RC239665**

AASDH (NM_001286672) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AASDH (NM_001286672) 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



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ORF Nucleotide
Sequence:

>RC239665 representing NM_001286672
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTCTTCAGGAATTGGTGCATAAAGCTGCCTCCTGTTATATGGACAGAGTAGCTGTATGTTTTGATG
AATGCAACAACCACTCCAGTTTACTACACCTACAAGACTGTGGTTAATGCTGCTTCTGAATTATCAAA
TTTTCTGCTGTTACACTGTGACTTTCAAGGAATTCGGAAATTTGGTCTCTACTGCCAACCTGGGATAGAC
TTACCCTCTGGATTTTAGGAATTCCTCAAGTCCCGGCTGCTTATGTACCTATCGAGCCAGATTCACCAC
CGTCATTATCAACTATTTTATGAAAAATGTAATCTAAAGTATATCCTTGTGAAAAAAACAAATTA
TAAATTTAAATCTTTTCATGAAACATTATTGAACTATGATACATTTACAGTGAACATAATGACCTAGTG
CTCTTCAGACTTCACTGGAAAAACTGAGGTGAACTTGTGCTAAATGATGGAAAAGAGAAATATGAAA
AAGAAAAATAAAAGCATAAGTCTGAGCATGTCAATGAAGAAAAGCAGAAGAACACATGGATCTGAG
GCTAAAGCATTGCTTAGCCTATGTTCTACATACATCAGGGACTACAGGGATACCGAAGATTGTCAGAGTG
CCTCATAAGTGTATAGTACCAAATATCCAGCATTTCGGGTACTTTTGGACATCACACAAGAAGATGTTT
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GCAAGTGGAGTCTTGTGCAGTTACATGGTATAATCAGGAAAAATAATTCTTTCATGGTGTCTAAAGAT
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AAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239665 representing NM_001286672
Red=Cloning site Green=Tags(s)

MTLQELVHKAASCYMDRVAVCFDECNNQLPVYYTYKTVVNAASELSNFLLLHCDFQGIREIGLYCQPGID
LPSWILGILQVPAAYVPIEPDPSPPSLSTHFMKKNLKYILVEKKQINKFKSFHETLLNYDTFTVEHNDLV
LFRLHWKNTENVMLNDGKEKEYEKEKIKSISSEHVNEEKAEHMDLRLKHCLAYVLHTSGTTGIPKIVRV
PHKCIVPNIQHFRVLFDITQEDVLFASPLTFDPSVVEIFLALSSGASLLIVPTSVKLLPSKLASVLF
HRVTVLQATPTLLRRFGSQLIKSTVLSATTSLRVLALGGEAFPSLTVLRSWRGEGNKTQIFNVYGITEVS
SWATIYRIPEKTLNSTLKCELPVQLGFLLGTVVEVRDTNGFTIQEGSQVFLGGRNRVCFLLDDEVTVPL
GTMRATGDFVTVKDGEIFFLGRKDSQIKRHGKRLNIELVQVAAEELQQVESCAVTWYNQEKLILFMVSKD
ASVKEYIFKELQKYLPSHAVPDELVLIDSLPFTSHGKIDVSELNKIYLNINLKENKLSGKEDLWEKLQ
YLWKSTLNLPELRLVPDESFLNSGGDSLKSIRLLSEIEKLVGTSVPGLEIILSSSILEIYNHILQTV
VPDEDVTRKSCATKRKLSINQEEASGTSLHQKAIMTFTCHNEINAFVVL SRGSQILSLNSTRFLTKLG
HCSSACPSDSVSQTNIQNLKGLNSPVLIGKSKDPSCVAKVSEEGKPAIGTQKMEHVRWRSDTGKCV
DAS PLVVIPTFDKSSTVYIGSHSRMKAVDFYSGKVKWEQILGDRIESSACVSKCGNFIVVGKFLNLR
FVEL
N

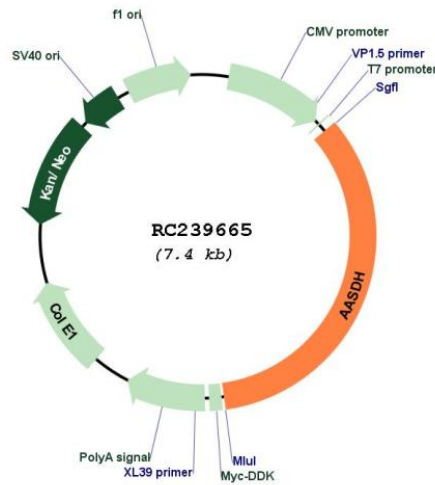
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001286672
ORF Size:	2523 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_001286672.1 , NP_001273601.1
RefSeq Size:	3004 bp
RefSeq ORF:	2526 bp
Locus ID:	132949
UniProt ID:	Q4L235
Cytogenetics:	4q12
Protein Pathways:	Lysine biosynthesis, Lysine degradation, Metabolic pathways
MW:	94.7 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]