

Product datasheet for **RG239089**

AASDH (NM_001286670) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AASDH (NM_001286670) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AASDH
Synonyms:	ACSF4; LYS2; NRPS998; NRPS1098
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239089 representing NM_001286670.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGTGTCTAAAGATGCTTCAGTAAAAGAATACATCTTTAAAGAAGTGCAGAAATATCTTCCAAGTCAT
GCAGTCCCGGATGAGCTTGTATTGATCGACTCTACCATTACATCCCACGGCAAAATTGATGTTTCT
GAGTTAAACAAGATATATTTAAACTACATAAACTTGAAGTCTGAGAATAAGCTCAGTGGGAAAGAGGAC
CTTTGGGAAAAATTACAGTATTTGTGGAAGTCTACTCTGAATCTCCAGAAAGATCTTTTGAGGGTCTCT
GATGAGTCACTCTTCTAAATAGTGGTGGAGATTCCTTAAAGTCCATCCGGCTCCTCAGTGAAGTTGAA
AACTTGTGGTACATCAGTACCTGGGCTTCTGGAAATTATTCTCAGCAGTTCCATTTTAGAGATTTAT
AATCACATCCTTCAAACAGTGGTCCAGATGAAGATGTGACATTCAGGAAGAGTTGTGCCACAAAAAGG
AAACTCAGCGACATTAATCAAGAGGAAGCCAGTGAACATCTTTACATCAGAAAGCCATCATGACTTTC
ACTTGCCACAATGAGATTAATGCTTTTGTGTACTGAGCAGAGGGAGTCAAATTTGTCTCTGAATTCC
ACTAGTTTTTAACAAAGTTAGGACATTGCTCTCAGCCTGTCTCTGACTCAGTTTCACAGACCAAC
ATTCAAAATTTGAAAGGCTTAAATCTCCAGTTCTTATTGGGAAGTCAAAGATCCATCCTGTGTTGCA
AAAGTTTCTGAAGAGGGGAAACCTGCGATAGGGACTCAGAAAATGGAGTTACATGTGAGGTGGAGGTCA
GACACAGGCAATGTGTAGATGCTTACCAGTGGTTGTAATACCCACTTTTGATAAGTCACTACAAC
GTGTACATTGGTCCCATTCTCATAGAATGAAGGCAGTTGACTTTTACTCTGGGAAGGTAATGGGAA
CAGATTTTGGGAGATCGAATTGAATCCTCAGCATGTGTATCTAAGTGTGGAACTTTATTGTGGTGGGC
TGTTATAATGGATTAGTTTATGTTCTGAAAAGTAAAGTGGAGAAAAATACTGGATGTTTACTACTGAA
GATGCTGTCAAAGCTCGCAACCATGGATCCAACACAGGACTCATTTACATTGGATCTCATGACCAG
CACGCATATGCTTTAGATATTTATAGAAAAGAAGTGTGTTTGGAAAGTCAAATGTGGAGAACTGTCTTT
TCCTCCTCGTGTGGAACTGATTCCACATCATTGTATTTTGTACTTGGGAGGACTTTTACTGGCT
GTAATCCTGCTACTGGGAACGTTATTTGGAAACATTCCTGTGGAAAACCACTCTTCTTCCCCACAA
TGTTGCTCACAGTATATTTGATTGGCTGTGTAGATGGGAATTTACTCTGCTTTACTCACTTTGGAGAA
CAGTTTTGGCAGTTCTCTACCAGTGGACCAATCTTTTCATCCCCGTGTACCTCACCATCAGAGCAAAAA
ATATTTTTTGGTCCCATTGATTGCTTTTACTACTGTTGTAACATGAAAGGTCACCTGCAGTGAAATTT
GAACTACTTCAAGGGTCTATGCAACACCGTTTGGTTCCATAACTACAATGGCAGCAATGAAATGTTG
CTGGCAGCAGCATCTACTGATGGGAAAGTGGATCTTGGAACTCAGAGTGGACAATTGCAAAGTGT
TATGAACTTCTGGAGAAGTCTTCTCTTCTCTGTGGTCTGGAATCAATGCTCATTATTGGGTGTAGA
GATAATTATGTTTATTGTCTGGATTTATTGGGTGGCAATCAAAAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG239089
 Blue=ORF Red=Cloning site Green=Tag(s)

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MVSKDASVKEYIFKELQKYLPSHAVPELVLIDSLPFTSHGKIDVSELNKIYLNINLKSENKLSGKED
LWEKLQYLWKSTLNLPEDLLRVPDESFLNMSGDSLKSIKRLSEIEKLVGTSVPGLEIILSSSILEIY
NHILQTVVPEDEVTRKSCATKRKLSLQEEASGTSLSLHQAIMTFTCHNEINAFVVL SRGSQILSLNS
TRFLT KLGHCSACPSDSVSQTNIQNLKGLNSPVLIGSKDPSCVAKVSEEGKPAIGTQKMHVWRWS
DTGKCV DASPLVVIPTFDKSSTTVYIGSHSRMKAVDFYSGVKVWEQILGDRIESSACVSKGNFIVVG
CYNGLVYVLKSNSEKYMFTTEDAVKSSATMDPTTGLIYIGSHDQHAYALDIYRKKCVWKSCKGGTVF
SSPCLNLIPHHLYFATLGLLLAVNPATGNVIWKHSCGKPLFSSPQCSQYICIGVDGNLLCFTHFGE
QWQFSTSGPIFSSPCTSPSEQIFFGSHDCFYCCNMKGHLQWKFETTSRVYATPFAFHNYNGSNEML
LAAASTDGKVVWILESQSQQLQSVYELPGEVFSPPVLESMLIIGCRDNYVYCLDLLGGNQK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

SgfI-MluI

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).
RefSeq:	NM_001286670.2
RefSeq Size:	3017 bp
RefSeq ORF:	1842 bp
Locus ID:	132949
UniProt ID:	Q4L235
Cytogenetics:	4q12
Protein Pathways:	Lysine biosynthesis, Lysine degradation, Metabolic pathways
MW:	68.3 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]