

Product datasheet for **RG216923**

AASDH (NM_181806) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AASDH (NM_181806) 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)
ORF Nucleotide Sequence:	>RG216923 representing NM_181806 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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GCTTCAGTAAAAGAATACATCTTTAAAGAACTGCAGAAATATCTTCCAAGTCATGCAGTCCCGGATGAGC
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 TGGAAATCAATGCTCATTATTGGGTGTAGAGATAATTATGTTTATTGTCTGGATTTATTGGGTGGCAATCA
 AAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG216923 representing NM_181806
 Red=Cloning site Green=Tags(s)

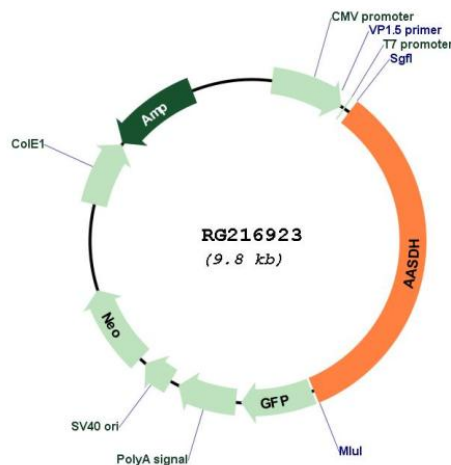
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TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_181806

ORF Size: 3294 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:	<u>NM_181806.4</u>
RefSeq Size:	3573 bp
RefSeq ORF:	3297 bp
Locus ID:	132949
UniProt ID:	<u>Q4L235</u>
Cytogenetics:	4q12
Protein Pathways:	Lysine biosynthesis, Lysine degradation, Metabolic pathways
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]