

Product datasheet for **MG223307**

Coasy (NM_027896) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Coasy (NM_027896) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Coasy
Synonyms:	1300003G02Rik; Dpck; Ppat; Ukr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223307 representing NM_027896
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGTGTTCCGCTCAGGCCTCTGGTGTGACAACGCGCTGGCCACCTGGCCGACGCTGCCTC
 CCATCCTGACCTCGGCGTCCCGCTGGTGAATCACACCCTCTATGTGCACCTGCAGCCGGCATGAACCT
 GGGGGACCCGCTCAGCCTCAGGCCAGCCCTGTGACGGCCACATTTGAGTTCTGGATTTTCATCACGCAC
 CTCTACACTGGTCCGACCTGCACAGGCACCTGGACGTGAGAATCTACTGACCAATATCCAAACCAAGA
 GCACCTTTCTCCCTGTGCTGTCTCAGTCCAGAATCTGGCCACCCTCCAGAAGTGGTTCTGACGGACTT
 CCAGACCCTGGACGGGAGCCAGTACAACCTGTTAAACAACAGCTAGAGCGTTATGCCACCAGTTGTTAC
 AGCTGTTCTCCACAGCTGGCTTCTGTGTTGCTGTATCCGATTATGGAAGTGGAGAGCTGCCTTTGGAGC
 CCCCGAATGCCCTTTACCTCTACTATAAGGCCGGCTTCCCGGTTGCCAGATCTCAAGCGACCTGT
 GCGTGGCTACCACCGTGGGGCCGTGGTGGCACTTTTGACCGCTTGACAATGCCACAAAGTGTGCTC
 AGTGTTCATGTGTACTGGCCAGGAGCAGCTTGTGGTGGGAGTAGCTGACAAAGATCTGTTGAAGAGCA
 AGTTGCTCCCGAGCTGCTCCAGCCGATGCAGAGCGCGTGGAGCATCTGACTGAGTTCTGGTGGACAT
 CAAGCCCTCCCTGACCTTGAACCTGCTCCCGCTGCTGGATCCCTATGGCCTGCTGGGTCCGACCCACC
 TTGGAGTTCCTGGTGGTCAAGGAGGAGCCTACCGTGGGGGATGGCTGTCAACCCTCCCGCTTGAGA
 ATGGCAAAGAAGAACTTGGTTGTACCAGATACAACCTGCTGAAGGACCAGAGTCACAATGAAATGAGGA
 GGACAAGTCACTCCTCAGCTTTCGCCAGCGAATCTGGGAAACCTGCTTCAGCCTCCAAATGAGAGG
 CCGGAGCTCCCGTCAAGTCTCTATGTGCTCGGGCTCACAGGCATCAGTGGCTCTGGGAAAAGCTCGGTAG
 CTCAGCGGTGAAGAAGTGGGAGCATACATCATCGACAGCGACCCTCGGGCCATCGGGCCATGCTCC
 TGGGGTCTGCCTACCAGCCTGTGGTGGAGCCCTTGGAAACAGATATTCTCCATAAAGATGGCACCATC
 AATAGGAAGTCTGGGACCGGGTGTGGGAAACAAGAAGCAGATGAAGATCCTCACAGATATTGTGT
 GGCCAGTTATCGCAAAGCTGGCCCGGAGGAGATGGATGTGGCTGTGGCTAAGGGAAAACCTCTGTGTGT
 AATCGATGCTGCTATGCTGCTTGAAGCTGGCTGGCAGAGTATGGTACACGAGGTGTGGACCGTCTCATC
 CCTGAGACTGAGGCTGTTGACGCATTGTTGAGAGGGATGGACTAAGTGGGAGCCGCTCAGAGCCGGC
 TGCAGAGCCAGATGAGCGCCAGCAGCTGGTAGAGCAGAGCAACGTGGTCTGAGCACCTGTGGGAGTC
 ACATGTACACAGAGCCAGGTGGAAAAGCGTGGAACTCTCTACAGAAGCGCCTCCCTAAGGCTTACCAG
 ACCAGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223307 representing NM_027896
 Red=Cloning site Green=Tags(s)

MAVFRSGLLVLTPLATLAARLPPILTSASRLVNHTLYVHLQPGMNLGGPAQPQASPVQATFEVLDIFITH
 LYTGADLHRHLDVRILLTNIQTKSTFLPVLSSVQNLAHPPEVVLDFQTLDGSSQYNPVKQLERYATSCY
 SCSPQLASVLLYPDYGTGELPLEPPNALLPSTIRPASPVARSQRPVRYHRGAVGGTDFRLHNAHKVLL
 SVACVLAQEQLVVGADKDLLKSKLPELLQPYAERVEHLTEFLVDIKPSLTFELVPLLDYPYGPAGSDPT
 LEFLVSEETYRGGMAVNRFRLENGKEELALYQIQLLDQSHNENEEDKVSSSSFRQRIILGNLLQPPNER
 PELPSGLYVLGLTGISGSGKSSVAQRLKNL GAYIIDSDDLGHAYAPGGPAYQPVEAFGTDILHKDGTI
 NRKVLGSRVFGNKKQMKILTIVWPVIAKLAREEMDVAVAKGKTLCVIDAAMLL EAGWQSMVHEVWTVVI
 PETEAVRRIVERDGLSEAAAQSRLQSQMSGQQLVEQSNVVLSTLWESHVTQSQVEKAWNLLQKRLPKAYQ
 TRN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_027896

ORF Size: 1689 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:

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_027896.4](#), [NP_082172.2](#)

RefSeq Size: 2386 bp

RefSeq ORF: 1692 bp

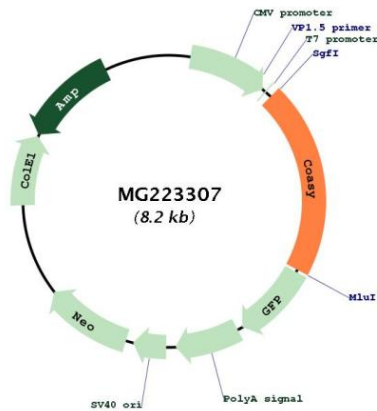
Locus ID: 71743

Cytogenetics: 11 D

Gene Summary:

This gene encodes the bifunctional protein coenzyme A (CoA) synthase which carries out the last two steps in the biosynthesis of CoA from pantothenic acid (vitamin B5). The phosphopantetheine adenylyltransferase domain of this protein catalyzes the conversion of phosphopantetheine into dephospho-CoA while its dephospho-CoA kinase domain completes the final step by phosphorylating dephospho-CoA to form CoA. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MG223307