

Product datasheet for **MR223307**

Coasy (NM_027896) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Coasy (NM_027896) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Coasy
Synonyms:	1300003G02Rik; Dpck; Ppat; Ukr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223307 representing NM_027896
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGTGTTCCGCTCAGGCCTCTGGTGTGACAACGCGCTGGCCACCTGGCCGACGCTGCCTC
 CCATCCTGACCTCGGCGTCCCGCTGGTGAATCACACCCTCTATGTGCACCTGCAGCCGGCATGAACCT
 GGGGGACCCGCTCAGCCTCAGGCCAGCCCTGTGACGGCCACATTTGAGTTCTGGATTTTCATCACGCAC
 CTCTACACTGGTCCGACCTGCACAGGCACCTGGACGTGAGAATTCTACTGACCAATATCCAAACCAAGA
 GCACCTTTCTCCCTGTGCTGTCTCAGTCCAGAATCTGGCCACCCTCCAGAAGTGGTTCTGACGGACTT
 CCAGACCCTGGACGGGAGCCAGTACAACCTGTTAAACAACAGCTAGAGCGTTATGCCACCAGTTGTTAC
 AGCTGTTCTCCACAGCTGGCTTCTGTGTGCTGTATCCGATTATGGAAGTGGAGAGCTGCCTTTGGAGC
 CCCCAGTGCCTTTACCTCTACTATAAGGCCGGCTTCCCGGTTGCCAGATCTCAAGGCAGCCTGT
 GCGTGGCTACCACGTGGGCGCTGGTGGCACTTTTGACCGCTTGACAATGCCACAAAGTGTGCTC
 AGTGTTCATGTGTACTGGCCAGGAGCAGCTTGTGGTGGGAGTAGCTGACAAAGATCTGTTGAAGAGCA
 AGTTGCTCCCGAGCTGCTCCAGCCGATGCAGAGCGCTGGAGCATCTGACTGAGTTCTGGTGGACAT
 CAAGCCCTCCCTGACCTTGAACCTGCTCCCGCTGCTGGATCCCTATGGCCTGCTGGGTCCGACCCACC
 TTGGAGTTCCTGGTGGTCAAGGAGGAGCTACCGTGGGGGATGGCTGTCAACCCTCCCGCTTGAGA
 ATGGCAAAGAAGAACTTGTGTTGACCAGATAAAGTGTGAAGGACAGAGTCACAATGAAATGAGGA
 GGACAAGTCACTCCAGCTTTCGACGCAATCTGGGAAACCTGCTTCAGCCTCCAAATGAGAGG
 CCGGAGCTCCCGTCAAGTCTCTATGTGCTCGGGCTCACAGGCATCAGTGGCTCTGGGAAAGCTCGGTAG
 CTCAGCGCTGAAGAAGTGGGAGCATACATCATCGACAGCGACCATCTGGGCCATCGGGCTATGCTCC
 TGGGGTCTGCCTACCGCTGTGGTGGAGCCCTTTGGAACAGATATTCTCCATAAAGATGGCACCATC
 AATAGGAAGTCTGGGACCGGGTGTGGGAAACAAGAAGCAGATGAAGATCCTCACAGATATTGTG
 GGCCAGTTATCGCAAAGCTGGCCCGGAGGAGATGGATGTGGCTGTGGCTAAGGGAAAACTCTGTGTG
 AATCGATGCTGCTATGCTGCTTGAAGCTGGCTGGCAGAGTATGGTACACGAGGTGGACCGTCTGCATC
 CCTGAGACTGAGGCTGTTGACGCAATTGTTGAGAGGGATGGACTAAGTGGCAGCCGCTCAGAGCCGGC
 TGCAGAGCCAGATGAGCGCCAGCAGCTGGTAGAGCAGAGCAACGTGGTCTGAGCACCTGTGGGAGTC
 ACATGTACACAGAGCCAGGTGGAAAAGCGTGGAACTCTTACAGAAGCGCCTCCCTAAGGCTTACCAG
 ACCAGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223307 representing NM_027896
 Red=Cloning site Green=Tags(s)

MAVFRSGLLVLTPLATLAARLPPILTSASRLVNHTLYVHLQPGMNLGGPAQPQASPVQATFEVLDIFITH
 LYTGADLHRHLDVRILLTNIQTKSTFLPVLSSVQNLAHPPEVVL TDFQTL DGSQYNPVKQLERYATSCY
 SCSPQLASVLLYPDYGTGELPLEPPNALLPSTIRPASPVARSPPRQPVRYHRGAVGGTDFRLHNAHKVLL
 SVACVLAQEQLVGVADKDLLKSKLLPELLQPYAERVEHLTEFLVDIKPSLTFELVPLLDYPGAGSDPT
 LEFLVSEETYRGGMAVNRFRLENGKEELALYQIQLLDQSHNENEEDKVSSSSFRQRI LGNLLQPPNER
 PELPSGLYVGLTGISGSKSSVAQRLKNL GAYIIDS DHLGHRAYAPGGPAYQPVEAFGTDILHKDGTI
 NRKVLGSRVFGNKKQMKILTIDIVWPVIAKLAREEMDVAVAKGKTL CVIDAAMLLEAGWQSMVHEVWTVVI
 PETEAVRRIVERDGLSEAAQSR LQSQMSGQQLVEQSNVVLSTLWESHVTSQVQEKAWNLLQKRLPKAYQ
 TRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9078_g07.zip

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

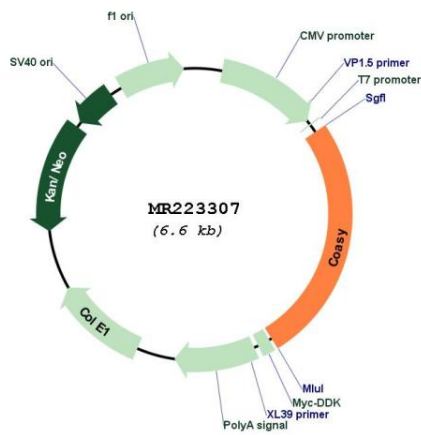
Cytogenetics: 11 D

MW: 62 kDa

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 MR223307