

Product datasheet for **RC229299**

COASY (NM_001042532) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COASY (NM_001042532) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COASY
Synonyms:	DPCK; NBIA6; NBP; PCH12; pOV-2; PPAT; UKR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC229299 representing NM_001042532
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGGACACCAAGGCTTAGAGCACAGCCCGAGGCGCGTCTACCAGGCCCGTCCCCTCCCCGGCTC
 CTGTCGGCCTGGGCAGCATGGCCGTATTCGGTCGGGTCTCCTGGTGCTGACGACCCGCTGGCCTCCCT
 AGCCCCCTCGCCTGGCCTCCATCCTGACCTCGGGCGGCCGGCTGGTGAATCACACACTCTATGTTACCTG
 CAGCCGGGCATGAGCCTGGAGGGCCCGCTCAGCCCCAGTCCAGCCCCGTCAGGCCACGTTTGAGGTTT
 TTGATTTTCATCACGCACCTCTATGCTGGCGCCGACGTCCACAGGCACTTGGACGTGAGAATCCTACTGAC
 CAATATCCGAACCAAGAGCACCTTTCTCCCTCCCCTGCCACCTCAGTCCAGAATCTCGCCACCCGCCA
 GAAGTCGTGTTGACAGATTTCCAGACCTGGATGGAAGCCAGTACAACCCGGTCAAACAGCAGCTAGTGC
 GTTACGCCACCAGCTGTTACAGCTGTTGTCGGGACTGGCCTCGGTGCTGCTATACTCCGATTATGGGAT
 AGGAGAAGTGCCCGTGGAGCCCCGGATGTCCCCTTACCCTCCAGATCAGGCCAGCTTCCCCCGTGGCC
 GGGTCTCCAAAGCAGCCGGTGCCTGGTACTACCGTGGCCTGTCGGTGGCACGTTTGACCCCTGCACA
 ACGCCCAAGGTGTTGCTCAGTGTGCGGTGCATCCTGGCCCAGGAGCAGCTTGTGGTGGGAGTAGCAGA
 CAAAGATCTGTTGAAGAGCAAGTTGCTCCCTGAGCTGCTCAAACCTTATACAGAACGTGTGGAACATCTG
 AGTGAATTCCTGGTGGACATCAAGCCCTCCTTGACTTTTGATGTCATCCCCTGCTGGACCCCTATGGGC
 CCGCTGGCTCGACCCCTCCCTGGAGTTCTGGTGGTCAAGGAGGACCTATCGTGGGGGGATGGCCAT
 CAACCGCTTCCGCTTGAAGATGACCTGGAGGAAGTGTCTTGTACCAGATCCAGCTGCTGAAGGACCTC
 AGACATACAGAGAATGAAGAGGACAAAGTCAGCTCCTCCAGCTCCGCCAGCGAATGTTGGGGAACCTGC
 TTCGGCTCCATATGAAGGCCAGAGCTCCCCACATGTCTATGTAATTGGGCTGACTGGCATCAGTGG
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 GGTGTCATCGGGCTATGCCCCAGGTGGCCCTGCCTACCAGCCTGTGGTGGAGGCCCTTGGAACAGATATTC
 TCCATAAAGATGGCATCATCAACAGGAAGTCTAGGCAGCCGGGTGTTGGGAATAAGAAGCAGCTGAA
 GATACTCACGGACATTATGTGGCAATTATCGCAAAGCTGGCCGAGAGGAGATGGATCGGGCTGTGGCT
 GAGGGAAGCGTGTGTGTGATTGATGCCGCTGTGTTGCTTGAAGCCGGCTGGCAGAACCTGGTCCATG
 AGGTGTGGACTGCTGTCATCCCAGAGACTGAGGCTGTAAGACGCATTGTGGAGAGGGATGGCCTCAGTGA
 AGCCGCGGCTCAAAGCCGGCTGCAGAGCCAGATGAGCGGGCAGCAGCTTGTGGAACAGAGCCACGTGGT
 CTAGCACCTTGTGGAGCCGCATATACCCAACGCCAGGTGGAGAAAGCCTGGGCCCTCTGCAGAAGC
 GCATCCCAAGACTCATCAGGCCCTCGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229299 representing NM_001042532
 Red=Cloning site Green=Tags(s)

MRTPRLRAQPRGAVYQAPSPPAPVGLGSMVFRSGLLVLTTPLASLAPRLASILTSAARLVNHTLYVHL
 QPGMSLEGPAQPQSSPVQATFEVLDIFITHLYAGADVHRHLDVRIILLTNIRTKSTFLPPLPTSVQNLAHPP
 EVVLTDFQTLDGQYNPVKQQLVRYATSCYSCCPRLASVLLYSDYGI GEVPVEPLDVPLPSTIRPASPVA
 GSPKQPVRYRGA VGGTFDRLHNAHKVLLSVACILAEQLVVGVDKDLLKSKLLPELLQPYTERVEHL
 SEFLVDIKPSLTFDVIPLLDPYGPAGSDPSLEFLVSEETYRGGMAINRFRLENDLEELALYQIQLLKD
 RHTENEEDKVSSSFRQRLGNLLRPPYERPELPTCLYVIGLTGISGSGKSSIAQRLKGLGAFVIDSDHL
 GHRAYAPGGPAYQPVVEAFGTDILHKDGIINRVLGSRVFGNKKQLKILTDIMWPIIAKLAREEMDRAVA
 EGKRVCVIDAAVLLEAGWQNLVHEVWTAVIPETEAVRRIVERDGLSEAAAQSRLQSQMSGQQLVEQSHV
 LSTLWEPHITQRQVEKAWALLQKRIPKTHQALD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8068_h05.zip

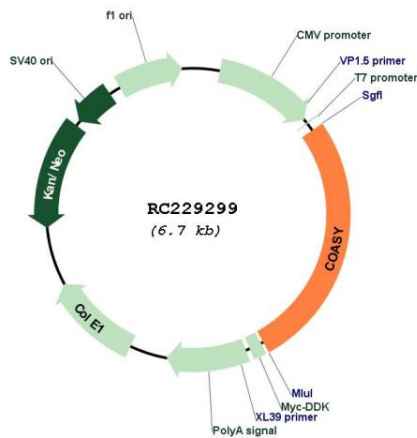
Cytogenetics: 17q21.2

Protein Pathways: Metabolic pathways, Pantothenate and CoA biosynthesis

MW: 65.2 kDa

Gene Summary: Coenzyme A (CoA) functions as a carrier of acetyl and acyl groups in cells and thus plays an important role in numerous synthetic and degradative metabolic pathways in all organisms. In eukaryotes, CoA and its derivatives are also involved in membrane trafficking and signal transduction. This gene encodes the bifunctional protein coenzyme A synthase (CoAsy) which carries out the last two steps in the biosynthesis of CoA from pantothenic acid (vitamin B5). The phosphopantetheine adenyltransferase domain of this bifunctional protein catalyzes the conversion of 4'-phosphopantetheine into dephospho-coenzyme A (dpCoA) while its dephospho-CoA kinase domain completes the final step by phosphorylating dpCoA to form CoA. Mutations in this gene are associated with neurodegeneration with brain iron accumulation (NBIA). Alternative splicing results in multiple isoforms. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RC229299