

## Product datasheet for SC204052

### COASY (NM\_025233) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	COASY (NM_025233) Human 3' UTR Clone
Symbol:	COASY
Synonyms:	DPCK; NBIA6; NBP; PCH12; pOV-2; PPAT; UKR1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_025233
Insert Size:	339 bp
Insert Sequence:	<p>&gt;SC204052 3'UTR clone of NM_025233</p> <p>The sequence shown below is from the reference sequence of NM_025233. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p>

```

GGCAAGTTGGACGCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAACGATCGCC
ATTCCCAAGACTCATCAGGCCCTCGACTGAAAAGTTCTCAGTGGGGCCAGACTGGCTCCTGGAGCTGAC
AAGCGACCCCGTGGTGAGGAGAAATGGGGCCTTGATGCTCACCTGGTTCAGGCCCAGAGGTCCAAGC
TATACTGTGCAGGACATGGCCAGGCCTGGTGGACACAGGAAGCCTACCCAACACGCTGGTATTTGCCA
ACACTGAGGATGTGGTTCATGGGGGAGCAGTCCCCTCCCCACTCTGCCCATGGGTGACTCTTACCCAC
AGCTGACTAGGGCCAGCGCAAATACTGGAACCTGTAACAGAATTAAGGTGAATGTTCTGAGA
ACGCGTAAGCGGCCGCGGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
```

Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_025233.7</u>


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**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 adenylyltransferase 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]

**Locus ID:**

80347

**MW:**

12.7