

## Product datasheet for RC234000

### CALCOCO2 (NM\_001261393) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CALCOCO2 (NM_001261393) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CALCOCO2
Synonyms:	NDP52
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC234000 representing NM_001261393 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGAGACCATCAAAGATCCCCCACATCAGCTGTCTTGCTGGATCACTGTCATTTCTCTCAGGTCA  
TCTTTAACAGTGTGGAGAAGTTCTACATCCCTGGAGGGGACGTCACATGTCATTATACCTTCACCCAGCA  
TTTCATCCCTCGTCGAAAGGATTGGATTGGCATCTTTAGAGTGGGGTGAAGACAACCCGTGAGTATTAC  
ACCTTCATGTGGTTACTTTGCCATTGACCTAAACAACAAATCAGCTAAACAGCAGGAAGTCCAATTCA  
AAGCTTACTACCTGCCAAGGATGATGAGTATTACCAGTTCTGCTATGTGGATGAGGATGGTGTGGTCCG  
GGGAGCAAGTATTCCTTTCCAATTCCTGCCAGAAAATGAGGAAGACATCCTGGTTGTTACCACTCAGGAG  
GAGCTAGAAACCTACAGAGCATCAATAAGAAAGTTGAACTGAAAGTGAAGAACAGAAGGACTATTGGG  
AGACAGAGCTGCTTCAACTGAAAGAACAAAACCAGAAGATGTCCTCAGAAAATGAGAAGATGGGAATCAG  
AGTGGATCAGCTTCAGGCCAGCTGTCAACTCAAGAGAAAAGAAATGGAGAAGCTTGTTTCAGGGAGATCAA  
GATAAGACAGAGCAGTTAGAGCAGCTGAAAAAGGAAAATGACCACCTCTTTCTCAGTTTAACTGAACAGA  
GGAAGGACCAGAAGAAGCTCGAGCAGACAGTGGAGCAAATGAAGCAGAATGAACTACTGCAATGAAGAA  
ACAACAGGAATTAATGGATGAAAACCTTTGACCTGTCAAAAAGACTGAGTGAGAACGAAATATATGTAAT  
GCTCTGCAGAGACAGAAAGAGAGATTGGAAGGAGAAAATGATCTTTTGAAGAGGGAGAACAGCAGATTGC  
TCAGTTACATGGGTCTGGATTTTAATTCTTTGCCGTATCAAGTACCTACTTCAGATGAAGGAGCGCAAG  
ACAAAATCCAGGACTTGCCATGAAAACCCATATTCTGGTATCCAAGAAAGTTCTTCCCCAGCCCGCTC  
TCCATCAAGAAATGCCCTATCTGCAAAGCAGATGATATTTGTGATCACACCTTGGAGCAACAGCAGATGC  
AGCCCCCTTTGTTCAATTGTCCAATTTGTGACAAGATCTTCCAGCTACAGAGAAGCAGATCTTTGAAGA  
CCACGTGTTCTGCCACTCTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC234000 representing NM\_001261393  
 Red=Cloning site Green=Tags(s)

MEETIKDPPTSAVLLDHCHFSQVIFNSVEKFYIPGGDVTCHYTFTQHFIPRRKDWIGIFRVGWKTTREYY  
 TFMWVTLPIDLNNKSAKQEQVQFKAYYLPKDDEYYQFCYVDEDEGVVRGASIPFQFRPENEEILVTTQE  
 ELETLQSIKLELKVKEQKDYWETELLQLKEQNQKMSSENEKMGIRVDQLQAQLSTQEKEMEKL VQGDQ  
 DKTEQLEQLKKENDHFLSLTEQRKDQKLEQTVQMKQNETTAMKKQQLMDENFDLSKRLSENEIICN  
 ALQRQKERLEGENDLLKRENSRLLSYMGDLDFNSLPYQVPTSDEGGARQNPGLAYGNPYSYGIQESSPSPL  
 SIKKCPICKADDICDHTLEQQQMQLCFNCPICDKIFPATEKQIFEDHVFCHSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001261393

**ORF Size:** 1212 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\\_001261393.2](#)

**RefSeq Size:** 3556 bp

**RefSeq ORF:** 1215 bp

**Locus ID:** 10241

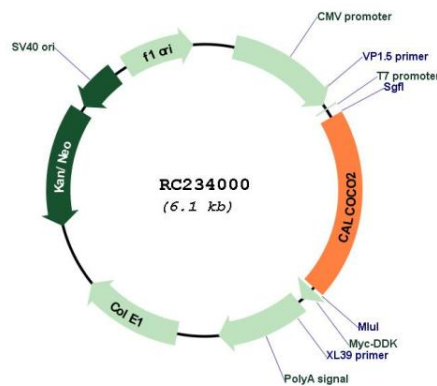
**UniProt ID:** [Q13137](#)

**Cytogenetics:** 17q21.32

**MW:** 47.8 kDa

**Gene Summary:** This gene encodes a coiled-coil domain-containing protein. The encoded protein functions as a receptor for ubiquitin-coated bacteria and plays an important role in innate immunity by mediating macroautophagy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]

### Product images:



Circular map for RC234000