

Product datasheet for **RC234189**

CALCOCO2 (NM_001261391) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | CALCOCO2 (NM_001261391) 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) |



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ORF Nucleotide Sequence:

>RC234189 representing NM_001261391
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGAGACCATCAAAGATCCCCCACATCAGTGTCTTGCTGGATCACTGTCAATTTCTCTCAGTCA
 TCTTTAACAGTGTGGAGAAGTTCTACATCCCTGGAGGGGACGTCACATGTCATTATACCTTCACCCAGCA
 TTTCATCCCTCGTCAAAGGATTGGATTGGCATCTTTAGATGTAGTCTTAATCAGACTATTCAAACCTCTC
 ATCACCCAGACACTGGTAGTATCTGGCACCAGGTGGGGTGAAGACAACCCGTGAGTATTACACCTTCA
 TGTGGGTTACTTTGCCATTGACCTAAACAACAAATCAGCTAACAGCAGGAAGTCCAATCAAAGCTTA
 CTACCTGCCCAAGGATGATGAGTATTACCAGTTCTGCTATGTGGATGAGGATGGTGTGGTCCGGGGAGCA
 AGTATTCCTTTCCAATTCGTCAGAAAATGAGGAAGACATCCTGGTTGTTACCAGTCCAGGAGAGGTGG
 AAGAGATTGAGCAGCACAAAGGAGCTTTGCAAAGAAAACAGGAGCTGAAGGACAGCTGTATCAGCCT
 CCAGAAGCAGAACTCAGACATGCAGGCTGAGCTCCAAAAGAAGCAGGAGGAGCTAGAAAACCTACAGAGC
 ATCAATAAGAAGTTGAAACTGAAAGTGAAGAACAAGAAGGACTATTGGGAGACAGAGCTGCTTCAACTGA
 AAGAACAAAACAGAAAGATGTCCTCAGAAAATGAGAAGATGGGAATCAGAGTGGATCAGCTTCAGGCCCA
 GCTGTCAACTCAAGAGAAAAGAAATGGAGAAGCTTGTTCCAGGGAGATCAAGATAAGACAGAGCAGTTAGAG
 CAGCTGAAAAAGGAAAATGACCACCTCTTTCTCAGTTAACTGAACAGAGGAAGGACCAGAAGAAGCTCG
 AGCAGACAGTGGAGCAATGAAGCAGAATGAACTACTGCAATGAAGAAACAACAGGAATTAATGGATGA
 AAACCTTTGACCTGCAAAAAGACTGAGTGAGAACGAAATATATGTAATGCTCTGCAGAGACAGAAAAGAG
 AGATTGGAAGGAGAAAATGATCTTTTGAAGAGGGAGAACAGCAGATTGCTCAGTTACATGGGCTGGATT
 TTAATCTTTGCCGTATCAAGTACCTACTTCAGATGAAGGAGGCGCAAGACAAAATCCAGGACTTGCCTA
 TGGAAACCCATATTCTGGTATCCAAGAAAAGTTCTTCCCCAGCCCGCTCTCCATCAAGAAAATGCCCTATC
 TGCAAAGCAGATGATATTTGTGATCACACCTTGGAGCAACAGCAGATGCAGCCCTTTGTTTCAATTGTC
 CAATTTGTGACAAGATCTTCCAGCTACAGAGAAGCAGATCTTTGAAGACCACGTGTTCTGCCACTCTCT
 C

ACGCGTACGCGGCCGCTCGAGCAGAAAAC**T**ATCTCAGAAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234189 representing NM_001261391
 Red=Cloning site Green=Tags(s)

MEETIKDPPTSAVLLDHCHFSQVIFNSVEKFYIPGGDVTCHYFTQHFIPRRKDWIGIFRCSLNQTIQLL
 ITPDTSIWHQVGWKTREYYTFMWVTLPIDLNNKSAKQQEVQFKAYYLPKDDEYYQFCYVDEDDGVVARGA
 SIPFQFRPENEEIDLVTQTQGEVEEIEQHNLCKENQELKDSCISLQKQNSDMQAEQKKQEELQLQS
 INKKLELKVKEQKDYWETELLQLKEQNQKMSSENEKMGIRVDQLQAQLSTQEKEMEKLQVGDQDKTEQLE
 QLKENDHLFLSLTEQRKDQKLEQTVEMKQNETTAMKKQQLMDENFDL SKRLENEIICNALQRQKE
 RLEGENDLLKRENSRLLSYMGLDFNSLPYQVPTSDEGGARQNPGLAYGNPYSGIQESSPSPLSIKKCP
 CKADDICDHTLEQQMQPLFCNCPICDKIFPATEKQIFEDHVFCHSL

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001261391

ORF Size: 1401 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_001261391.2](#)

RefSeq Size: 3745 bp

RefSeq ORF: 1404 bp

Locus ID: 10241

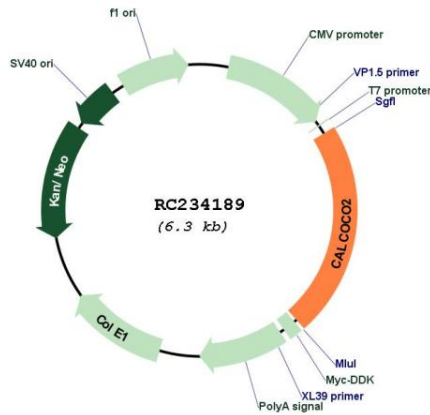
UniProt ID: [Q13137](#)

Cytogenetics: 17q21.32

MW: 55.1 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 RC234189