

Product datasheet for **RC203843**

CALCOCO2 (NM_005831) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CALCOCO2 (NM_005831) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC203843 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGAGACCATCAAAGATCCCCCACATCAGTGTCTTGCTGGATCACTGTCAATTTCTCTCAGGTCA
 TCTTTAACAGTGTGGAGAAGTTCTACATCCCTGGAGGGGACGTACATGTCATTATACCTTCACCCAGCA
 TTTCATCCCTCGTAAAGGATTGGATTGGCATCTTTAGAGTGGGGTGAAGACAACCCGTGAGTATTAC
 ACCTTCATGTGGTTACTTTGCCATTGACCTAAACAACAAATCAGCTAAACAGCAGGAAGTCCAATTCA
 AAGCTTACTACCTGCCAAGGATGATGAGTATTACCAGTTCTGCTATGTGGATGAGGATGGTGTGGTCCG
 GGGAGCAAGTATTCCTTTCCAATTCGTCAGAAAATGAGGAAGACATCCTGGTTGTTACCACTCAGGGA
 GAGGTGGAAGAGATTGAGCAGCACAACAAGGAGCTTTGCAAAGAAAACCAGGAGCTGAAGGACAGCTGTA
 TCAGCCTCCAGAAGCAGAATCAGACATGCAGGCTGAGCTCCAAAAGAAGCAGGAGGAGCTAGAAAACCT
 ACAGAGCATCAATAAGAAGTTGGAAGTAAAGTAAAGAAACAGAAGGACTATTGGGAGACAGAGCTGCTT
 CAACTGAAAGAACAACCCAGAAGATGTCTCAGAAAATGAGAAGATGGGAATCAGAGTGGATCAGCTTC
 AGGCCAGCTGTCAACTCAAGAGAAAGAAATGGAGAAGCTTGTTCAAGGAGATCAAGATAAGACAGAGCA
 GTTAGAGCAGCTGAAAAGGAAAATGACCACCTTTTCTCAGTTTAACTGAACAGAGGAAGGACCAGAAG
 AAGCTCGAGCAGACAGTGGAGCAATGAAGCAGAATGAACTACTGCAATGAAGAAAACAACAGGAATTAA
 TGGATGAAAACCTTGACCTGTCAAAAAGACTGAGTGAGAACGAAATATATGTAATGCTCTGCAGAGACA
 GAAAGAGAGATTGGAAGGAGAAAATGATCTTTGAAGAGGGAGAACAGCAGATTGCTCAGTTACATGGGT
 CTGGATTTAATTCTTTGCCGTATCAAGTACCTACTTCAGATGAAGGAGGCGCAAGACAAAATCCAGGAC
 TTGCCTATGAAAACCCATATTCTGGTATCCAAGAAAGTTCTTCCCCAGCCGCTCTCCATCAAGAAATG
 CCCTATCTGCAAAGCAGATGATATTTGTGATCACACCTTGGAGCAACAGCAGATGCAGCCCTTTGTTC
 AATTGTCCAATTTGTGACAAGATCTTCCAGCTACAGAGAAGCAGATCTTTGAAGACCACGTGTTCTGCC
 ACTCTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203843 protein sequence
 Red=Cloning site Green=Tags(s)

MEETIKDPPTSAVLLDHCHFSQVIFNSVEKFIYPGGDVTCHYFTQHFIPRRKDWIGIFRVGWKTTREYY
 TFMWVTLPIDLNNKSAKQEVQFKAYYLPKDDEYYQFCYVDEGTVVRGASIPFQFRPENEDILVTTQG
 EVEEIEQHNKELCKENQELKDSCISLQKQNSDMQAEQKQEELETLQSINKKLELKVKEQKDYWETELL
 QLKEQNQKMSSENEKMGIRVDQLQAQLSTQEKEMEKL VQGDQDKTEQLEQLKKENDHFLSLTEQRKDQK
 KLEQTVQMKQNETTAMKKQQLMDENFDLSKRLSENEIICNALQRQKERLEGENDLLKRENSRLLSYMG
 LDFNSLPYQVPTSDEGGARQNPGLAYGNPYSIGIQESSSPSLSIKKCPICKADDICDHTLEQQMQPLCF
 NCPICDKIFPATEKQIFEDHVFCHSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6306_g12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005831

ORF Size: 1338 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005831.5](#)

RefSeq Size: 3682 bp

RefSeq ORF: 1341 bp

Locus ID: 10241

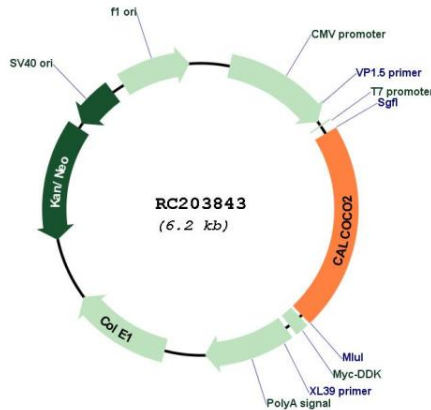
UniProt ID: [Q13137](#)

Cytogenetics: 17q21.32

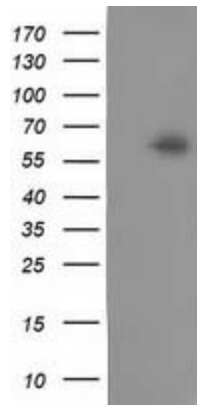
MW: 52.3 kDa

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]

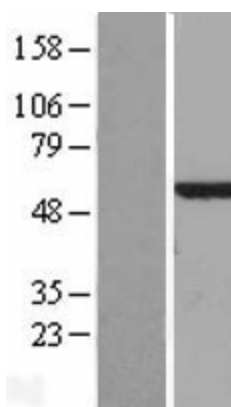
Product images:



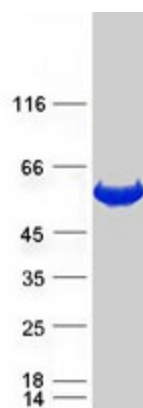
Circular map for RC203843



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CALCOCO2 (Cat# RC203843, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CALCOCO2 (Cat# [TA501971]). Positive lysates [LY417045] (100ug) and [LC417045] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417045]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203843 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CALCOCO2 protein (Cat# [TP303843]). The protein was produced from HEK293T cells transfected with CALCOCO2 cDNA clone (Cat# RC203843) using MegaTran 2.0 (Cat# [TT210002]).