

## Product datasheet for **RG203843**

### **CALCOCO2 (NM\_005831) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CALCOCO2 (NM_005831) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CALCOCO2
Synonyms:	NDP52
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG203843 representing NM\_005831  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGAGACCATCAAAGATCCCCCACATCAGTGTCTTGCTGGATCACTGTCAATTTCTCTCAGTCA  
 TCTTTAACAGTGTGGAGAAGTTCTACATCCCTGGAGGGGACGTACATGTCATTATACCTTCACCCAGCA  
 TTTCATCCCTCGTAAAGGATTGGATTGGCATCTTTAGAGTGGGGTGAAGACAACCCGTGAGTATTAC  
 ACCTTCATGTGGTTACTTTGCCATTGACCTAAACAACAAATCAGCTAAACAGCAGGAAGTCCAATTCA  
 AAGCTTACTACCTGCCAAGGATGATGAGTATTACCAGTCTGCTATGTGGATGAGGATGGTGTGGTCCG  
 GGGAGCAAGTATTCCTTTCCAATCCGTCCAGAAAATGAGGAAGACATCCTGGTTGTTACCACTCAGGGA  
 GAGGTGGAAGAGATTGAGCAGCACAACAAGGAGCTTTGCAAAGAAAACCAGGAGCTGAAGGACAGCTGTA  
 TCAGCCTCCAGAAGCAGAACTCAGACATGCAGGCTGAGCTCCAAAAGAAGCAGGAGGAGCTAGAAAACCT  
 ACAGAGCATCAATAAGAAGTTGGAAGTAAAGTAAAGAAACAGAAGGACTATTGGGAGACAGAGCTGCTT  
 CAACTGAAAGAACAACCCAGAAGATGTCTCAGAAAATGAGAAGATGGGAATCAGAGTGGATCAGCTTC  
 AGGCCAGCTGTCAACTCAAGAGAAAGAAATGGAGAAGCTTGTTCAAGGAGATCAAGATAAGACAGAGCA  
 GTTAGAGCAGCTGAAAAGGAAAATGACCACCTTTTCTCAGTTTAACTGAACAGAGGAAGGACCAGAAG  
 AAGCTCGAGCAGACAGTGGAGCAATGAAGCAGAATGAACTACTGCAATGAAGAAAACAACAGGAATTAA  
 TGGATGAAAACCTTGACCTGTCAAAAAGACTGAGTGAGAACGAAATATATGTAATGCTCTGCAGAGACA  
 GAAAGAGAGATTGGAAGGAGAAAATGATCTTTGAAGAGGGAGAACAGCAGATTGCTCAGTTACATGGGT  
 CTGGATTTAATTCTTTGCCGTATCAAGTACCTACTTCAGATGAAGGAGGCGCAAGACAAAATCCAGGAC  
 TTGCCTATGAAAACCCATATTCTGGTATCCAAGAAAGTTCTTCCCCAGCCCGCTCCATCAAGAAATG  
 CCCTATCTGCAAAGCAGATGATATTTGTGATCACACCTTGAGCAACAGCAGATGCAGCCCTTTGTTTC  
 AATTGTCCAATTTGTGACAAGATCTTCCAGCTACAGAGAAGCAGATCTTTGAAGACCACGTGTTCTGCC  
 ACTCTCTC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG203843 representing NM\_005831  
 Red=Cloning site Green=Tags(s)

MEETIKDPPTSAVLLDHCHFSQVIFNSVEKFYIPGGDVTCHYFTQHFIPRRKDWIGIFRVGWKTTREYY  
 TFMWVTLPIDLNNKSAKQEVQFKAYYLPKDDEYYQFCYVDEEDGVVVGASIPFQFRPENEEDILVTTQG  
 EVEEIEQHNLCKENQELKDSCISLQKQNSDMQAEQKQEELETLQSINKKLELKVKEQKDYWETELL  
 QLKEQNQKMSSENEKMGIRVDQLQAQLSTQEKEMEKL VQGDQDKTEQLEQLKKENDHFLSLTEQRKDQK  
 KLEQTVQMKQNETTAMKKQELMDENFDL SKRLESENE IICNALQRQKERLEGENDLLKRENSRLLSYMG  
 LDFNSLPYQVPTSDEGGARQNPLAYGNPYSGIQESSSPSPLSIKKCPICKADDICDHTLEQQMQMPLCF  
 NCPICDKIFPATEKQIFEDHVFCHSL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-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.

**RefSeq:** [NM\\_005831.5](#)

**RefSeq Size:** 3299 bp

**RefSeq ORF:** 1341 bp

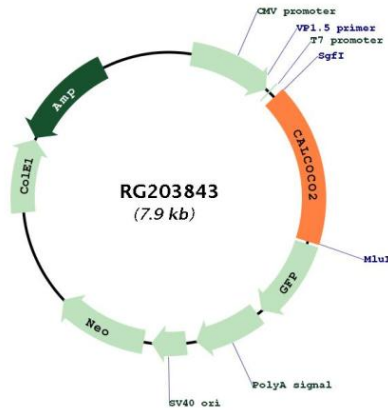
**Locus ID:** 10241

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

**Cytogenetics:** 17q21.32

**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 RG203843