

Product datasheet for **SC116483**

CALCOCO2 (NM_005831) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CALCOCO2 (NM_005831) Human Untagged Clone
Tag:	Tag Free
Symbol:	CALCOCO2
Synonyms:	NDP52
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116483 sequence for NM_005831 edited (data generated by NextGen Sequencing)

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ATGGAGGAGACCATCAAAGATCCCCCACATCAGCTGTCTTGCTGGATCACTGTCAATTC
TCTCAGGTCATCTTTAACAGTGTGGAGAAGTTCTACATCCCTGGAGGGGACGTCACATGT
CATTATACCTTACCCAGCATTTTCATCCCTCGTCGAAAGGATTGGATTGGCATCTTTAGA
GTGGGGTGAAGACAACCCGTGAGTATTACACCTTCATGTGGTTACTTTGCCATTGAC
CTAAACAACAATCAGCTAAACAGCAGGAAGTCCAATTCAAAGCTTACTACCTGCCAAG
GATGATGAGTATTACCAGTTCTGCTATGTGGATGAGGATGGTGTGGTCCGGGGAGCAAGT
ATTCTTTCCAATTCCTCCAGAAAATGAGGAAGACATCTGGTTGTTACCACTCAGGGA
GAGGTGGAAGAGATTGAGCAGCACAACAAGGAGCTTTGCAAAGAAAACCAGGAGCTGAAG
GACAGCTGTATCAGCCTCCAGAAGCAGAACTCAGACATGCAGGCTGAGCTCCAAAAGAAG
CAGGAGGAGCTAGAAACCTACAGAGCATCAATAAGAAGTTGAACTGAAAGTAAAAGAA
CAGAAGGACTATTGGGAGACAGAGCTGCTCAACTGAAAGAACAACCAAGAAAGATGTCC
TCAGAAAATGAGAAGATGGGAATCAGAGTGGATCAGCTTCAGGCCAGCTGTCAACTCAA
GAGAAAGAAATGGAGAAGCTTGTTCAGGGAGATCAAGATAAGACAGAGCAGTTAGAGCAG
CTGAAAAGGAAAATGACCACCTCTTCTCAGTTAACTGAACAGAGGAAGGACCAGAAG
AAGCTCGAGCAGACAGTGGAGCAAATGAAGCAGAATGAACTACTGCAATGAAGAAACAA
CAGGAATTAATGGATGAAAACCTTACCTGTCAAAAAGACTGAGTGAGAACGAAATATA
TGTAATGCTCTGCAGAGACAGAAAGAGAGATTGGAAGGAGAAAATGATCTTTTGAAGAGG
GAGAACAGCAGATTGCTCAGTTACATGGGTCTGGATTTTAATTCTTTGCCGTATCAAGTA
CCTACTTCAGATGAAGGAGGCGCAAGACAAAATCCAGGACTTGCCTATGGAAACCCATAT
TCTGGTATCCAAGAAAGTTCTTCCCCAGCCGCTCTCCATCAAGAAATGCCCTATCTGC
AAAGCAGATGATTTTGTGATCACACCTTGGAGCAACAGCAGATGCAGCCCTTTGTTTC
AATTGTCCAATTTGTGACAAGATCTTCCAGCTACAGAGAAGCAGATCTTTGAAGACCAC
GTGTTCTGCCACTCTCTGA

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Clone variation with respect to NM_005831.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005831 unedited</p> <p>TACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGTGCTGTGCGCCGCTGCTGGT TGCTGTCCCTGGACCCCTACCATGGAGAGACCATCAAAGATCCCCCACATCAGCTGTCT TGCTGGATCACTGTCATTTCTCTCAGGTCATCTTTAACAGTGTGGAGAAGTTCTACATCC CTGGAGGGGACGTCACATGTCATTATACCTTACCCAGCATTTTCATCCCTCGTCAAAGG ATTGGATTGGCATCTTTAGAGTGGGTGGAAGACAACCCGTGAGTATTACACCTTCATGT GGGTTACTTTGCCATTGACCTAAACAACAATCAGCTAACAGCAGGAAGTCCAATTCA AAGCTTACTACCTGCCCAAGGATGATGAGTATTACCAGTTCTGCTATGTGGATGAGGATG GTGTGGTCCGGGAGCAAGTATTCTTTCCAATTCGTCAGAAAATGAGGAAGACATCC TGGTTGTACCCTCAGGGAGAGGTGGAAGAGATTGAGCAGCACAACAAGGAGCTTTGCA AAGAAAACCAGGAGCTGAAGGACAGCTGTATCAGCCTCCAGAAGCAGAAGTCAAGCATGC AGGCTGAGCTCCAAAAGAAGCAGGAGGAGCTAGAAACCTACAGAGCATCAATAAGAAAGT TGGAACTGAAAGTAAAGAACAGAAGGACTATTGNGAGACAGAGCTGCTTCAACTGAAAG AACANAACCAGAAGATGCTCCTCAGAAATGAGAAGATGGGAATCAGAGTGGATCAGCTTCA NGCCCAGCTGTCAACTCAAGAGAAAGAAATGGAGAAAGCTGTTCCAGGGNAGATCAAGATA GACAGAGCAGTTNGAGCAGCTGAAAAAGGAAATGACCACCTCTTTCTCAGTTNACTGAC AGAGGAAGGACCANNAGAAGCTCGGCCGACAGTGGACCAATGAAGCAGATGGACTACTGC ATGAAGAACAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005831 unedited</p> <p>ATTACCTTAGTNCCTGNAATAGNAGAATAATTTATTTTTAGTATTAAGAGATTAACAA GTTGTCTCATTATTCTGATTTACCCATATTCAAAACCTCACCTACTCAGAAAACCTGCAAA CCATAGTTGCTAACAACTCTATTTAACCATTAAGAAAGGATTTACAACAATAAAAGCTAT GTACATAGGAAATATCAGAGAGTAGAAAGTGTACCAGAGGTACCCAGAAAAGCTTTCT GTGACTGAAACAATACTTCTGTCTAAGTTTCAGGAGTAAGATGCTTCTTTGGGGGCTGA GAAATTAACATGAGAAACCTTTGGTATCCAATTGGATTTCTGAGCTCTTTGCCACGGCA TTTTTGGCTAGTCTAAAACAATCATTTGGAGAAAGCAACCAAGGATGAGGAGGAAGGA ATTCTCAACCTCGGACCAATCTCTGGCCCCAGGGTTAGGACTGAGAACAAATACACTCAA GGGCTGACTTTGAATGGCAGTGGGACAACCTTGGAAAACATACTTGTATCAAGTCAG GCCTGTTGTGAATACCCAGGTTGGCTCCATCCCAGGGCCCTTGTACTGAGACCCTCAGAA GAATGACAGGTGAGAGGATGATACAGCTAGAGTTATGCGACTTAAAGGTAGCAACCCACA AGGATGGCAGCAGAAGCCCTTACAGTGACCTTCAGATCAGTGACATAAAGTNCAGTGTAG CGGCAGCAGGGCTGAGTAAATNCCTAATAATTTAGGTTAGGCAGGATCTTGACTCATAT AACTCATGGTAGAAGCTATAGGNTCTATTCTATAAAATCTCTGTATACATCCAAGAAGGT GGGATACTCAGAGAGAGTGGCAGAACACGTGGGTCTTCAAAGATCTGCTCTCTGTAGCTG GGAAGATCTTGNACAAAATTGGACAATTGAACAAAGGGGCTGCATCTGCTGGTGTCTCAA GGGTGATCAGAAAATCAA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_005831
Insert Size:	2630 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_005831.3](#), [NP_005822.1](#)

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]

Transcript Variant: This variant (3) lacks an exon in the 5' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.