

Product datasheet for **RC201375**

CoCoA (CALCOCO1) (NM_020898) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CoCoA (CALCOCO1) (NM_020898) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CALCOCO1
Synonyms:	calphoglin; Cocoa; PP13275
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC201375 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGAATCACCCTAAGCCGGGCACCATCCCGTGGTGGAGTCAACTTCTCAATGTAGCCCGGACCT
ACATCCCCAACACCAAGGTGGAATGTACTACACCCTTCCCCAGGCACCATGCCAGTGCCAGTACTG
GATTGGCATCTTCAAGGTGGAGGCTGCCTGTGTTGCGGATTACCACACATTTGTGTGGTCTTCCGTGCCT
GAAAGTACAAGTATGTTCCCCATTACACACAGTGTCCAGTTCGAAGCCAGCTACCTGCCAAACAG
GAGCTCAGCTCTACCAGTCCGATATGTGAACCGCAGGCGCAGGTGTGTGGCAGAGCCCCCTTTCCA
GTTCCGAGAGCCAAGGCCATGGATGAAGTGGTACCCTGGAGGAGGCTGATGGGGCTCTGACATCCTG
CTGTTTGTCCCAAGGCAACTGTGTACAGAACCAGCTCGATGAGAGCCAGCAAGAACGGAATGACCTGA
TGCAGCTGAAGCTACAGCTGGAGGGACAGGTGACAGAGCTGAGGAGCCGAGTGCAGGAGCTCGAGAGGGC
TCTGGCAACTGCCAGGCAGGAGCACACGGAGCTGATGGAACAGTACAAGGGGATTTCCCGTCCCATGGG
GAGATCACAGAAGAGAGGGACATCCTGAGCCGGCAACAGGGAGACCATGTGGCACGCATCCTGGAGCTAG
AGGATGACATCCAGACCATCAGTGAGAAAGTGCTGACGAAGGAAGTGGAGCTGGACAGGCTTAGAGACAC
AGTGAAGGCCCTGACTCGGGAACAAGAGAAGCTCCTTGGGCAACTGAAAGAAGTACAAGCAGACAAGGAG
CAAAGTGAGGCTGAGCTCCAAGTGGCACAACAGGAGAACCATCACTTAAATTTGGACCTGAAGGAGGCGA
AGAGCTGGCAAGAGGAGCAGAGTGTCTAGGCTCAGCGACTGAAAGACAAGGTGGCCAGATGAAGGACAC
CCTAGGCCAGGCCAGCAGCGGTGGCCGAGCTGGAGCCCTTGAAGGAGCAGCTTCGAGGGGCCAGGAG
CTTGACGCTCAAGCCAGCAGAAAGCCACCTTCTTGGGAGGAGTTGGCCAGTGCAGCAGCAGCCAGGG
ACCGCACCATAGCCGAACTACACCGCAGCCGCTGGAAGTGGCTGAAGTTAACGGCAGGCTGGCTGAGCT
CGGTTTTGCACTTGAAGGAAGAAAAATGCCAATGGAGCAAGGAGCGGGCAGGGCTGCTGCAGAGTGTGGAG
GCAGAGAAGGACAAGATCCTGAAGCTGAGTGCAGAGATACTTCGATTGGAGAAGGCAGTTCAGGAGGAGA
GGACCCAAAACCAAGTGTCAAGACTGAGCTGGCCGGGAGAAGGATTCTAGCCTGGTACAGTTGTCAGA
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GAGGAGAAACAGGAATTGCTAGAGTACATGAGAAAGCTAGAGGCCCGCCTGGAGAAGGTGGCAGATGAGA
AGTGAATGAGGATGCCACCACAGAGGATGAGGAGGCCGCTGTGGGGCTGAGCTGCCCGGCAGCTCTGAC
AGACTCAGAGGACGAGTCCCAGAAAGACATGAGGCTCCCACCCTATGGCCTTTGTGAGCGTGGAGACCCA
GGCTCCTCTCCTGCTGGCCTCGAGAGGCTTCTCCCCTTGTGTCATCAGCCAGCCGGCTCCCATTTCTC
CTCACCTCTCTGGCCAGCTGAGGACAGTACTGACTCGGAGGCTGAAGATGAGAAGTCACTGATGATGAT
GGCAGCTGTGCAGAGTGGGGGTGAGGAGGCCAAGTACTGCTTCTGAACTGGGCAGTGCCTTCTATGAC
ATGGCCAGTGGCTTTACAGTGGGTACCCTGTGAGAAACCAGCACTGGGGGCCCTGCCACCCACATGGA
AGGAGTGTCTATCTGTAAGGAGCGCTTCTGCTGAGAGTGACAAGGATGCCCTGGAGGACCACATGGA
TGGACACTTCTTTTTCAGCACCCAGGACCCCTTACCTTTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201375 protein sequence
 Red=Cloning site Green=Tags(s)

MEESPLSRAPSRGGVNFNLNVRTYIPNTKVECHYTLPPGTMPASDWIGIFKVEAACVRDYHTFWSSVP
 ESTTDDGSPIHSTVQFQASYLPKPGAQLYQFRYVNRQGVCGQSPFPQFREPRPMDLVTLEEADGGSDIL
 LVVPKATVLRQNLDESQQRNDLMQLKLQLEGQVTELRSRVQELERALARARQEHELMEQYKGISRSHG
 EITEERDILSRQQGDHVARILELEDDIQTISEKVLTKVELDRLRDTVKALTREQEKLGLQKEVQADKE
 QSEAEQLVAQQENHHLNLDLKEAKSWQEEQSAQAQRLKDKVAQMKDTLGGQAQQRVAELEPLKEQLRGAQE
 LAASSQKATLLGEELASAAAARDRTIAELHRSRLVAEVNGLAELGLHLKEEKQWSKERAGLLQSV
 AEKDKILKLSAEILRLEKAVQEERTQNQVFKTELAREKSSLVQLSESKRELTELRSLRVLQKEKEQLQ
 EEKQELLEMRKLEARLEKVADEKWNEDATTEDEEAAVGLSCPAALDSEDESPEDMRLPPYGLCERGD
 GSSPAGPREASPLVVISQPAPISPHLSGPAEDSSSDSEAEDEKSVLMAAVQSGGEEANLLLPELGSFYD
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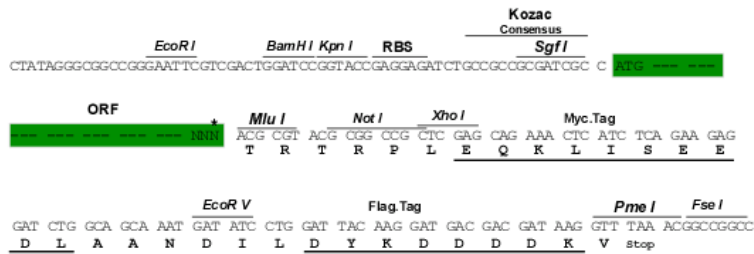
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6588_a09.zip

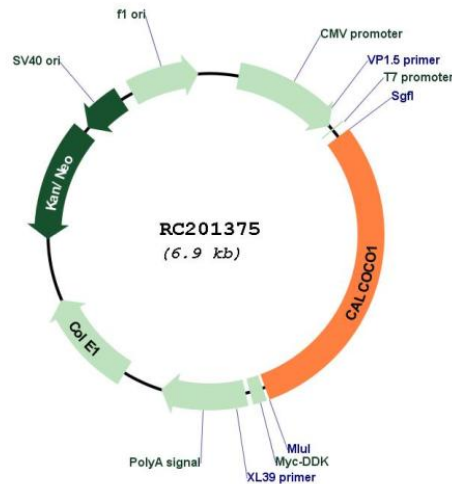
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_020898

ORF Size: 2073 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.

RefSeq: [NM_020898.3](#)

RefSeq Size: 3046 bp

RefSeq ORF: 2076 bp

Locus ID: 57658

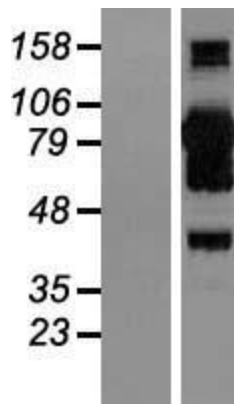
UniProt ID: [Q9P1Z2](#), [A0A024RAZ1](#)

Protein Families: Transcription Factors

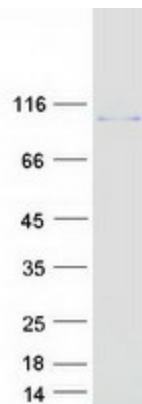
MW: 77.3 kDa

Gene Summary:

Functions as a coactivator for aryl hydrocarbon and nuclear receptors (NR). Recruited to promoters through its contact with the N-terminal basic helix-loop-helix-Per-Arnt-Sim (PAS) domain of transcription factors or coactivators, such as NCOA2. During ER-activation acts synergistically in combination with other NCOA2-binding proteins, such as EP300, CREBBP and CARM1. Involved in the transcriptional activation of target genes in the Wnt/CTNNB1 pathway. Functions as a secondary coactivator in LEF1-mediated transcriptional activation via its interaction with CTNNB1. Coactivator function for nuclear receptors and LEF1/CTNNB1 involves differential utilization of two different activation regions (By similarity). In association with CCAR1 enhances GATA1- and MED1-mediated transcriptional activation from the gamma-globin promoter during erythroid differentiation of K562 erythroleukemia cells (PubMed:24245781).[UniProtKB/Swiss-Prot Function]

Product images:

Western blot validation of overexpression lysate (Cat# [LY412204]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201375 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CALCOCO1 protein (Cat# [TP301375]). The protein was produced from HEK293T cells transfected with CALCOCO1 cDNA clone (Cat# RC201375) using MegaTran 2.0 (Cat# [TT210002]).