

Product datasheet for **RG227956**

CoCoA (CALCOCO1) (NM_001143682) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CoCoA (CALCOCO1) (NM_001143682) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CoCoA
Synonyms:	calphoglin; Cocoa; PP13275
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227956 representing NM_001143682
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGAATCACCACTAAGCCGGGCACCATCCCGTGGTGGAGTCAACTTCTCAATGTAGCCCGGACCT
 ACATCCCCAACACCAAGGTGGAATGTACTACACCCTTCCCCAGGCACCATGCCAGTGCCAGTACTG
 GATTGGCATCTTCAAGGTGGAGGCTGCCTGTGTTGCGGATTACCACACATTTGTGTGGTCTTCCGTGCC
 GAAAGTACAACCTGATGGTCCCCATTACACCAGTGTCCAGTCCAAGAGCCAAGGCCCATGGATGAAC
 TGGTGACCCTGGAGGAGGCTGATGGGGCTCTGACATCCTGTGGTTGTCCCAAGGCAACTGTGTACA
 GAACCAGCTCGATGAGAGCCAGCAAGAACGAATGACCTGATGCAGCTGAAGCTACAGCTGGAGGGACAG
 GTGACAGAGCTGAGGAGCCGAGTGCAGGAGCTCGAGAGGGCTCTGGCACTGCCAGGCAGGAGCACACGG
 AGCTGATGGAACAGTACAAGGGGATTTCCCGTCCATGGGAGATCACAGAAGAGAGGGACATCCTGAG
 CCGGCAACAGGGAGACCATGTGGCAGCATCCTGGAGCTAGAGGATGACATCCAGACCATCAGTGAGAAA
 GTGCTGACGAAGGAAGTGGAGCTGGACAGGCTTAGAGACACAGTGAAGGCCCTGACTCGGGAACAAGAGA
 AGCTCCTTGGGCAACTGAAAGAAGTACAAGCAGACAAGGAGCAAAGTGAGGCCGAGCTGGAGCCCTTGA
 GGAGCAGCTTCGAGGGGCCAGGAGCTTGACAGCTCAAGCCAGCAGAAAGCCACCCTTCTGGGGAGGAG
 TTGGCCAGTGCAGCAGCAGCCAGGGACCGACCATAGCCGAACTACCCGAGCCGCTGGAAAGTGGCTG
 AAGTTAACGGCAGGCTGGCTGAGCTCGGTTTGCCTTGAAGGAAGAAAAATGCCAATGGAGCAAGGAGCG
 GGCAGGGCTGCTGCAGAGTGTGGAGGCAGAGAAGGACAAGATCCTGAAGCTGAGTGCAGAGATACTCGA
 TTGGAGAAGGCAGTTCAGGAGGAGAGGACCCAAAACCAAGTGTCAAGACTGAGCTGGCCGGGAGAAGG
 ATTCTAGCCTGGTACAGTTGTGAGAAAGTAAGCCGGGAGCTGACAGAGCTGCGGTACGCCCTGCCTGTGCT
 CCAGAAGGAAAAGGAGCAGTTACAGGAGGAGAAAACAGGAATTGCTAGAGTACATGAGAAAAGCTAGAGGCC
 CGCCTGGAGAAGGTGGCAGATGAGAAGTGAATGAGGATGCCACCACAGAGGATGAGGAGCCGCTGTGG
 GGCTGAGCTGCCCGCAGCTCTGACAGACTCAGAGGACGAGTCCCAGAAAGACATGAGGCTCCCACCCTA
 TGGCCTTTGTGAGCGTGGAGACCCAGGCTCCTCTCCTGCTGGGCCTCGAGAGGCTTCTCCCTTGTGTG
 ATCAGCCAGCCGGCTCCATTTCTCTCACCTCTCTGGCCAGCTGAGGACAGTAGCTCTGACTCGGAGG
 CTGAAGATGAGAAGTCACTCCTGATGCCAGCTGTGCAGAGTGGGGTGGAGGCAACTACTGCTTCC
 TGAAGTGGCAGTGCCTTCTATGACATGGCCAGTGGCTTACAGTGGGTACCCTGTGAGAAACCAGCACT
 GGGGGCCTGCCACCCACATGGAAGGAGTGTCTATCTGTAAGGAGCGCTTCTCTGCTGAGAGTGACA
 AGGATGCCCTGGAGGACCACATGGATGGACACTCTTTTTTCAGCACCCAGGACCCCTTACCTTTGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227956 representing NM_001143682
 Red=Cloning site Green=Tags(s)

MEE SPLSRAPSRGGVNFNLNVRTYIPNTKVECHYTLPPGTMPASDWDWIGIFKVEAACVRDYHTFVWSSVP
 ESTTDGSPIHSTVQFQEPRPMDLVTLEADGGSDILLVVPKATVQLQNQLDESQQERNLMLKLQLEGQ
 VTELRSRVQELERALARQEHTELMEQYKGISRSHGEITEERDILSRQQGDHVARILEDDIQTISEK
 VLTKEVELDRLRDTVKAL TREQEKLGLQKEVQADKEQSEAELEPLKEQLRGAQELAASSQKATLLGEE
 LASAAAARDRTIAELHRSRLEVAEVENGRALGLHLKEEKQWSKERAGLLQSVEAEKDKILKLSAEILR
 LEKAVQEERTQNQVFKTELAREKSSLVQLSESKRELTELSALRVLQKEKEQLQEEKQELLEMYMRKLEA
 RLEKVADEKWNEDATTEDEEAAGVLSCPAAL TDESESPEDMRLPPYGLCERGDGSSPAGPREASPLVV
 ISQPAPISPHLSGPAEDSSDSEAEDEKSVLMAAVQSGGEEANLLPELGSFYDMASGFTVGTLSSETST
 GGPATPTWKECPICKERFPAESDKDALEDHMDGHFFFTSQDPPTFE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001143682

ORF Size: 1818 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_001143682.2](#)

RefSeq Size: 2790 bp

RefSeq ORF: 1821 bp

Locus ID: 57658

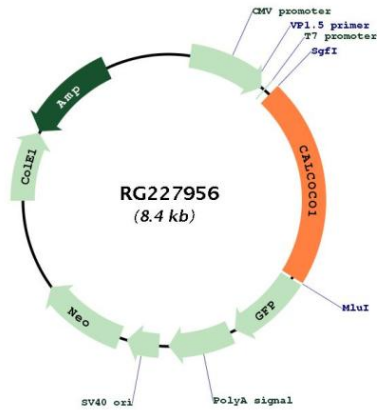
UniProt ID: [Q9P1Z2](#)

Cytogenetics: 12q13.13

Protein Families: Transcription Factors

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:



Circular map for RG227956