

Product datasheet for **MR210067**

Calcoco1 (NM_026192) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcoco1 (NM_026192) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calcoco1
Synonyms:	1810009B06Rik; Cocoa; Gcap11; mKIAA1536
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210067 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAAGAGTCATCACTAAGCCGGGCACCATCCCGGGGTGGAGTCAACTTCTGAATGTGGCCCGCACCT
ACATCCCCAACACCAAGGTGGAATGTCACTACACTTTGCCTCCGGTACCATGCCAGTGCCAGTGACTG
GATTGGCATTTTAAGGTGGAAGCTGCCTGCGTTCGAGATTATCACACGTTTCGTGTGGTCTCAGTGCCA
GAAAGTACAACCTGATGGCTCCCCACCCATGCCAGTGTCCAATCCAAGCCAGCTACCTGCCAAACCAG
GAGCCCAACTCTACCAGTTCGGTATGTGAACCGCAGGGCCGGGTGTGTGGCAGAGCCCCCTTCCA
GTTCCGAGAGCCAAGGCCATGGATGAGCTGGTACCCTGGAGGAGGCTGATGGAGGCTCTGACATCTG
TTGTTTGCCTAAGGCCACCGTCTCAGAACCAGCTGGATGAGAGCCAGCAGGAGCGGAATGACCTGA
TGCAGCTGAAGCTGCAGTTGGAGGATCAGGTGACAGAGCTGAGGAGCCGAGTGCAGGAGCTGGAGGCAGC
TCTGGCCACGGCCAGGCAGGAGCATTTCGAGCTCACCGAGCAGTACAAGGGGCTCTCCCGTCCCATGGG
GAGCTCTCAGAAGAGAGGGACATCCTGAGCCAGCAGCAGGGAGACCATGTGGCCGTATCCTGGAGTTAG
AGGATGACATCCAGACCATGAGTGACAAAGTGCTGATGAAGGAGGTGGAGCTGGACAGGGTTAGAGACAC
AGTGAAGGCCCTGACACGGGAACAAGAGAAGCTCCTGAGACAGCTGAAGGAATCCAGGCAGACAAGGAG
CAGAGTGAGGCTGAATTACAAACGGTCCGAGAGGAGAAGCTGCTGCTTAAATACAGAGCTGGAGGAGGCCA
AGAGCCGGCAAGAAGAGCAAGGTGCTCAGTCCAGCGACTGAAGGACAAGCTGGCCACATGAAGGACAC
CCTGGGCCAAGCCAGCAGAAAGTGCCGAGCTGGAGCCCTGAAAGAGCAGCTCCGAGGGGTCCAGGAA
CTTGACAGCCTCAAGCCAGCAGAAAGCGGCCCTCCTTGGGAGGAGTTGGCCAGTGCAGCAGGAGCTAGAG
ACCGAACCATAGCTGAACTACACCGCAGCCGACTGGAGGTGGCTGAAGTCAACGGCCGACTGGCTGAGT
CAGCCTGCACATGAAGGAGGAAAAGTGCCAGTGGAGCAAGGAGCGGACAGGGCTGCTGCAGAGCATGGAG
GCTGAAAAGGATAAGATCCTGAAGCTGAGTGCGGAGATCCTCCGACTGGAGAAGACGGTGCAGGAGGAGA
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AGTGGACCGAAGATGCTGCCACAGAGGACGAGGAAGCCACTGCTGGCTGAGCTGCCCTGCCTCTCTGAC
AGACTCAGAGGACGAGTCCCAGAAAGACATGCGGCTCCCATCCTATGGCTTGTGTGAGAGTGAAACACA
AGCTCCTCTCCTCTGGCCTCGGGAGCCTTCTTCTTGTGTCATCAACCAACCAGCACCCATTGCTC
CCCAGTTCTCAGTCCAGGGGAGCCAGCAGCTCAGACTCGGAGGCTGAAGATGAGAAGTCAAGTCCCTGAT
GGCAGCGGTGCAGAGTGGGGGCGAGGAAGCCAGCCTCCTGCTTCTGAGCTCGGCAGTGCCTTCTATGAC
GTGGCCAGTGCTTTTACAGTGAAGTCCCTGTGAGAGGCCAGCCCTGGGGTCCCAGCCAACCTCCATGGA
AGGAGTGTCCATCTGCAAGGAGCGCTTCCCTGCTGAGAGTGACAAGGACGCCCTAGAGGGCCACATGGA
TGGCATTCTTCTTTCAGCACCCAGGACCCTTTCACCTTTGAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210067 protein sequence
Red=Cloning site Green=Tags(s)

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MEESSLSRAPSRGGVNFNLNVRTYIPNTKVECHYTLPPGTMPASDWIGIFKVEAACVRDYHTFVWSSVP
ESTTDDGSPTHASVQFQASYLKPQGAQLYQFRYVNRQGRVCGQSPFPQFREPRPMDLVTLEEADGGSDIL
LVVPKATVLAQNQLDESQQERNDLMQLKLQLEDQVTELSRVQELEAALATARQEHSELTEQYKGLSRSHG
ELSEERDILSQQGDHVARILELEDDIQTMSDKVLMKEVELDRVRDVKALTRREQKLLRQLKEFQADKE
QSEAEELQTVRENCCLNTELEEAQSRQEEQGAQVQRKDKLAHMKDTLGGQAQKVAELEPLKEQLRGVQE
LAASSQQAALLGEELASAAGARDRTIAELHRSRLEVAEVNGLRAELSLHMKEEKQWSKERTGLLQSM
AEKDKILKLSAEILRLEKTVQEERTQSHVFKTELAREKSSLVQLSESKRELTELSALRVLQKEKEQLQ
TEKQELLEVMRKLARLEKVADEKWTEDAATEDEEATAGLSCPASLTDSEDESPEDMRLPSYGLCESGNT
SSSPGPREPSSLVVINQPAIAPQFSGPGEASSDSEAEDEKSVLMAAVQSGGEEASLLLPELGSFYD
VASAFTVSSLSEASPGVPANPPWKECPICKERFPAESDKDALEGHMDGHFFSTQDPFTFE
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_026192

ORF Size: 2076 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_026192.1](#), [NM_026192.2](#), [NM_026192.3](#), [NP_080468.1](#)

RefSeq Size: 2840 bp

RefSeq ORF: 2076 bp

Locus ID: 67488

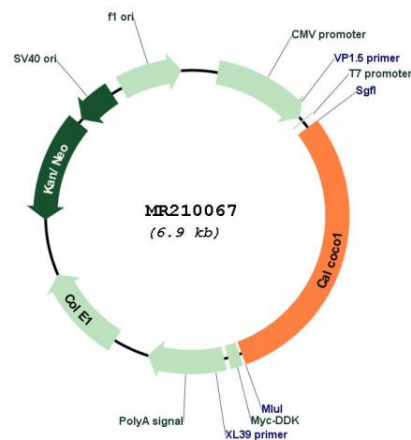
UniProt ID: [Q8CGU1](#)

Cytogenetics: 15

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. 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 MR210067