

Product datasheet for **RR215372**

Calcoco1 (NM_139190) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcoco1 (NM_139190) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calcoco1
Synonyms:	KIAA1536; MGC93160
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR215372 representing NM_139190
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAAGAATCATCACTAAGCCGGGCACCATCCGGGGTGGAGTCAGCTTCTGAACGTGGCCCGGACCT
ACGTCCCCAACACCAAGGTGGAATGTCACTACACTCTGCCTCCGGGCACACGCCAGCCAGCGACTG
GATTGGCATTTTAAGGTGGAAGCTGCCTGTGTTCCGGATTATCACACATTTGTGTGGTCTTCAGTGCCA
GAAACTACAACGGATGGCTCCCCACCCACGCCAGTGTCCAATCCAAGCCAGCTACCTGCCAAACCCAG
GAGCCCAACTCTACAGTTCGGTATGTGGACCGCAGGGCCGGGTGTGTGGCAGAGCCCCCATTCCA
GTTCCGAGAGCCAAGGCCATGGATGAGCTGGTGACCCTGGAGGAGGCTGATGGAGGCTCTGACATCCTG
TTGTTTGTCCCTAAGGCCACCGTCTCAGAACCAGCTGGATGAGAGCCAGCAGGAGCGGAATGACCTGA
TGCAGCTGAAGCTGCAGTTGGAGGATCAGGTGACAGAGCTGAGGAGCCGAGTGCAGGAGCTGGAAGCAGC
TCTGGCCACGGCCAGACAGGAGCATTAGAGCTCACCGAGCAATACAAGGGTCTCTCCCGTCCCATGGG
GAGCTCTCAGAAGAAAGGGACATCCTGAGCCAGCAACAGGGAGAGCATGTGGCCGTATCCTGGAGTTAG
AGGATGACATCCAGACCATGAGTGACAAAGTGCTGATGAAGGAAGTGGAGCTGGACAGGGTTAGAGACAT
GGTGAAGGCCCTGACACGGGAACAAGAGAACTCCTGGGGCAGCTGAAGGAATCCAGGCAGACAAGGAA
CAGAGTGAGGCTGAGTTACAAACGGTGCAGAGGAGAAGTGCCTTAAATACAGAGCTGCAGGAGGCCA
AGGGCCGGCAAGAAGAGCAAGGTGCTCAGGTCCAGCGACTGAAGGACAAGGTGGCCACATGAAGGACAC
CCTGGGCCAAACCCAGCAGAAAGTGGCCGAGCTGGAGCCTCTGAAAGAGCAGCTCCGAGGGGTCCAGGAA
CTTGACAGCCTCAAGCCAACAGAAAGCGGCCCTTCTTGGGGAGGAGTTGGCCAGTGCAGCAGGAGCTAGAG
ACCGAACCATAGCTGAGCTACACCGAAGCCGACTGGAGTGGCTGAAGTCAATGGCCGACTGGCTGAGT
CAGCCTGCACATGAAGGAGGAAAAATGCCAATGGAGCAAGGAGCGGACAGGGCTGCTGCAGAGCATGGAG
GCTGAGAAGGATAAGATCCTGAAGCTAAGTGCAGAGATCCTCCGACTGGAGAAGACAGTGCAGGAGGAGA
GGAGCCAGAGCCACATGTTCAAGACCGAGCTGGCCGAGAAAAGGATTCTAGCCTGGTGCAGTTATCAGA
GAGTAAGCGGGAGCTCACAGAACTGCGGTGAGCCCTCCGAGTACTTCAAGAGGAGAAGGAGCAGTTGCAG
ACAGAGAAACAGGAGCTGCTGGAGTACATGAGGAACTGGAGGCCCGCCTGGAAAAGGTGGCAGATGAGA
AGTGAACGAAGACGCTGCCACAGAGGATGAGGAAGCCACTGCTGGCTGAGCTGCCCTGCAGCTCTGAC
AGACTCGGAGGATGAGTCCCAGAAAGACATGAGGCTCCCCTCCTACGGCTTGTGTGAGCGTGAAACACA
AGCTCCTCCTCCTGGACCTCGGGAGTCTTCTTCTTGTGTTATCAACCAGCCAGCACCCATTGCTC
CCCAGCTCTCAGGCCAGGGGAGGCCAGCAGCTCAGACTCAGAGGCTGAAGATGAGAAGTCAAGTCTTGAT
GGCAGCTGTGCAGAGTGGTGGTGAAGCAACCTTCTGCTTCTGAGCTCGGCAGTACCTTCTATGAT
GTGGCCAGTGGCTTTCAGTGTGTTCTGTGTCAGAGGCCAGCACTGGGGTCCCAGCCATCCCTGCCTGGA
AGGAGTGTCTATCTGTAAGGAGCGCTTCCCTGCTGAGAGTGACAAGGATGCCCTGGAGGACCACATGGA
TGGACATTTCTTTTTCAGCACCCAGGACCCTTTCACCTTTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215372 representing NM_139190
Red=Cloning site Green=Tags(s)

```

MEESSLSRAPSRGGVSFLNVARTYVPNTKVECHYTLPPGTTSPASDWIGIFKVEAACVRDYHTFVWSSVP
ETTTDGSPTHASVQFQASYLPKPGAQLYQFRYVDRQGRVCGQSPFPQFREPRPMDLVTLEEADGGSDIL
LVVPKATV LQNQLDESQQERNDLMQLKLQLEDQVTELSRVQELEAALATARQEHSELTEQYKGLSRSHG
ELSEERDILSQQQGEHVARIILELEDDIQTMSDKVLMKEVELDRVRDMVKAL TREQEKL LQGLKEFQADKE
QSEAE LQTVREENCHLNTELQEAKGRQEEQGAQVQR LKDKVAHMKDTLGQTQKVAELEPLKEQLRGVQE
LAASSQQAALLGEELASAAGARDRTIAELHRSRLEVAEVNGLAELSLHMKEEKQWSKERTGLLQSM E
AEKDKILKLSAEILRLEKTVQEERSQSHMFKTELAREKDSSLVQLSESKRELTELSALRVLQKEKEQLQ
TEKQELLE YMRKLEARLEKVADEKWNEDAATEDEEATAGLSCPAALTDSEDESPEDMRLPSYGLCERGNT
SSSPGPRESSSLVVINQPAIAPQLSGPGEASSDSEAEDKSVLMAAVQSGGEEANLLLPELGSTFYD
VASGFVAVSSLSEASTGVP AIPAWKECPICKERFPAESDKDALEDHMDGHFFSTQDPFTFE
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_139190

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.

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_139190.1](#), [NP_631929.1](#)

RefSeq Size: 2969 bp

RefSeq ORF: 2076 bp

Locus ID: 246047

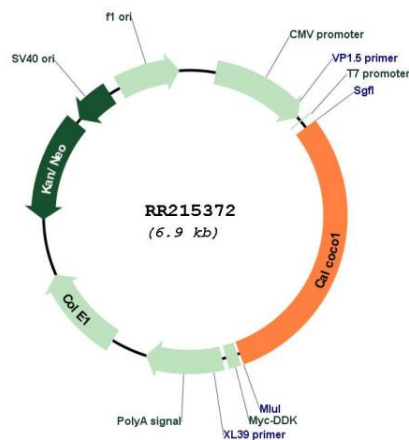
UniProt ID: [Q66HR5](#)

Cytogenetics: 7q36

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 (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR215372