

Product datasheet for **RC204999**

PC4 (SUB1) (NM_006713) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PC4 (SUB1) (NM_006713) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PC4
Synonyms: p14; P15; PC4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204999 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTAAATCAAAGGAACCTGTTTCTTCAAGCTCTTCTGGCAGTGATTCTGACAGTGAGGTTGACAAAA
AGTTAAAGAGGAAAAAGCAAGTTGCTCCAGAAAAACCTGTAAAGAAACAAAAGACAGGTGAGACTTCGAG
AGCCCTGCATCTTCTAAACAGAGCAGCAGCAGAGATGATAACATGTTTCAGATTGGGAAAATGAGG
TACGTTAGTGTTTCGGATTTTAAAGCAAAGTGCTAATTGATATTAGAGAATATTGGATGGATCCTGAAG
GTGAAATGAAACCAGGAAGAAAAGTATTTCTTTAAATCCAGAACAATGGAGCCAGCTGAAGGAACAGAT
TTCTGACATTGATGATGCAGTAAGAAAAGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204999 protein sequence
Red=Cloning site Green=Tags(s)
MPKSKELVSSSSGSDSDSEVDKLLKRRKQVAPEKPVKKQKTGETSRALSSSKQSSSSRDDNMFQIGKMR
YVSVRDFKGVLLIDIREYWMPEGEMKPRKGISLNPEQWSQLKEQISDIDDAVRKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6067_c07.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_006713

ORF Size: 381 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006713.4](#)

RefSeq Size: 3522 bp

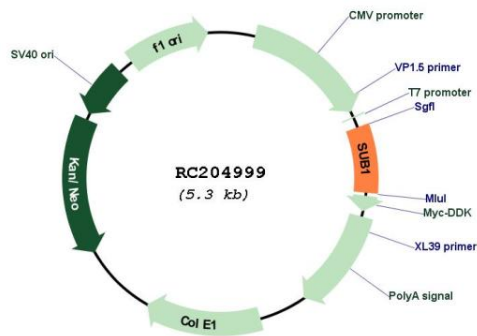
RefSeq ORF: 384 bp

Locus ID: 10923
 UniProt ID: [P53999](#)
 Cytogenetics: 5p13.3

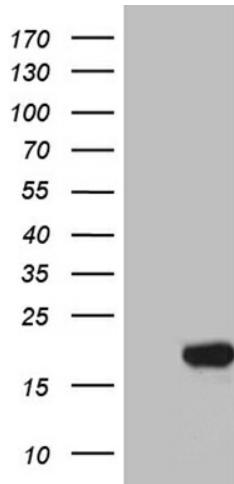
Domains: PC4
 Protein Families: Transcription Factors
 MW: 14.4 kDa

Gene Summary: General coactivator that functions cooperatively with TAFs and mediates functional interactions between upstream activators and the general transcriptional machinery. May be involved in stabilizing the multiprotein transcription complex. Binds single-stranded DNA. Also binds, in vitro, non-specifically to double-stranded DNA (ds DNA).[UniProtKB/Swiss-Prot Function]

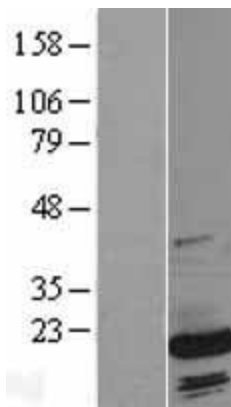
Product images:



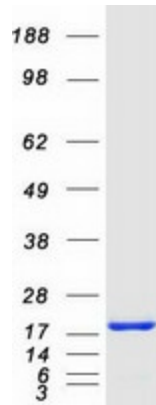
Circular map for RC204999



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SUB1 (Cat# RC204999, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SUB1 (Cat# [TA809399])(1:2000). Positive lysates [LY402009] (100ug) and [LC402009] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402009]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204999 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SUB1 protein (Cat# [TP304999]). The protein was produced from HEK293T cells transfected with SUB1 cDNA clone (Cat# RC204999) using MegaTran 2.0 (Cat# [TT210002]).