

Product datasheet for **RC202099**

MOCS3 (NM_014484) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MOCS3 (NM_014484) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MOCS3
Synonyms:	UBA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC202099 representing NM_014484
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCTTCCCGGAGGAGTACTCGCCTTACAAGCTGAAGTTGCCAACGTGAGGAGGAATTGAATTCGC
 TGAAGCAGAAGCTGGCGTCGGCTCTTTTGGCTGAGCAGGAACCGCAGCCAGAACGGCTGGTTCGGTGTC
 GCCGCTGCCGCCGAAGGCCGCTCTGTCCGAGATGAGATTCTGCGCTATAGCCGGCAGCTAGTGCTGCC
 GAGCTGGCGTGCACGGACAGCTGCGCTGGGACCGCGTGCCTGCTAATCGTGGCTGCGGTGGACTCG
 GCTGTCCACTAGCGCAGTACTTGGCAGCGGCCGCGTGGGCCGCTTGGCCTTGTGGACTATGACGTGGT
 AGAGATGAGCAACCTGGCCGCCAAGTGTGCTGATGGCAGGCACTGGCTGGCCAGGCCAAGGCCTTTTCG
 GCCGCCGCTCGTGGCCGCTCAATTCGGCAGTGAATGCGTCCGTACACTCAGGCCCTTACGCCAG
 CCACTGCCCTAGACCTGGTCCGCCGATATGATGTGGTGGCTGACTGCTCGGACAACGTGCCACTCGCTA
 CCTGGTTAATGACGCATGTGTGCTGGCGGTGCGCCCTCGTGTCTGCCAGTGCCTTGGCTTCGAGGGC
 CAAATCACAGTCTACCATTATGACGGTGGCCCTTGTCTATCGTGCATATCCCCCAACACCCCCAGCGG
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 GCAACTACTGAGCCAGAGGAGCGTGTTCGTGACCGACTATAAGCGACTGTGGATTCTGGGGCATTCC
 CACCTGTTGCTGGACGTGAGCCTCAGGTGGAGGTGGACATTTGCTGTTGCCTCATGCCCTACACATCC
 CTCTGAAACATTTGGAACGCAGGGATGCGGAGAGCCTGAACTCTTAAAGAAGCAATCTGGGAAGAGAA
 GCAGGGCACACAAGAAGGGGCTGCTGTCCCATTTATGTGATTTGCAAACTGGGAAATGACTCACAGAAA
 GCGGTGAAGATCCTCCAGTCCTTATCAGCAGCTCAAGAGTTAGACCCCTTAACAGTTCGGGATGTTGTGG
 GGGCCTCATGGCTGGCTGCCAAATCGATGGAACATTTCCACAGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202099 representing NM_014484
 Red=Cloning site Green=Tags(s)

MASREEVLALQAEVAQREEELNSLKQKLASALLAEQEPQPERLVPVSPLPPKAALSRDEILRYSRQLVLP
 ELGVHGLRLGTACVLIVGCGGLGCPLAQYLAAGVGRLGLVDYDVVEMSNLARQVLHGEALAGQAKAFS
 AAASLRLNSAVECVPTQALTPATALDLVRRYDVVADCSNVPTRYLVNDACVLAGRPLVSASALRFEG
 QITVYHYDGGPCYRCIFPQPPPAETVTNCADGGVLGVVTGVLGCLQALEVLKIAAGLGPSYSGSLLLFDA
 LRGHFRSIRLSRRLDCAACGERPTVTDLLDYEAFCGSSATDKCRSLQLLSPEERSVTDYKRLLDSGAF
 HLLLDVRPQVEVDICRLPHALHIPLKHLERRDAESLKLKEAIWEEKQGTQEGAAPVIYVICKLGNDSQK
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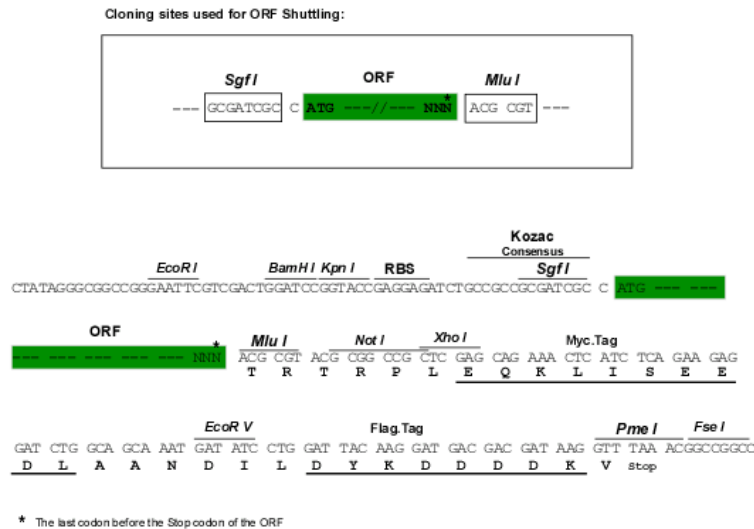
TRTRPLE**QKLISEEDLA**AND**ILDYKDDDDKV**

Chromatograms:

https://cdn.origene.com/chromatograms/mg2876_c10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014484

ORF Size: 1380 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_014484.2](#)

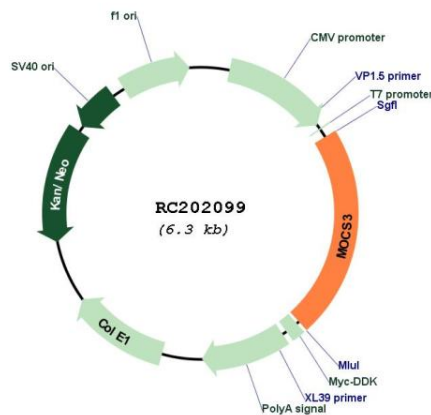
RefSeq Size: 2458 bp

RefSeq ORF: 1383 bp

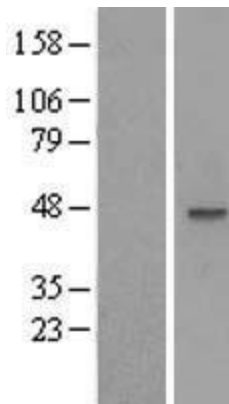
Locus ID: 27304

UniProt ID:	<u>O95396</u>
Cytogenetics:	20q13.13
Protein Families:	Druggable Genome
MW:	49.5 kDa
Gene Summary:	Molybdenum cofactor (MoCo) is necessary for the function of all molybdoenzymes. The protein encoded by this gene adenylates and activates molybdopterin synthase, an enzyme required for biosynthesis of MoCo. This gene contains no introns. A pseudogene of this gene is present on chromosome 14. [provided by RefSeq, Nov 2012]

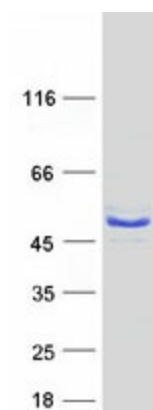
Product images:



Circular map for RC202099



Western blot validation of overexpression lysate (Cat# [LY415243]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202099 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MOCS3 protein (Cat# [TP302099]). The protein was produced from HEK293T cells transfected with MOCS3 cDNA clone (Cat# RC202099) using MegaTran 2.0 (Cat# [TT210002]).