

Product datasheet for **SC122871**

MOCOS (NM_017947) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MOCOS (NM_017947) Human Untagged Clone
Tag:	Tag Free
Symbol:	MOCOS
Synonyms:	HMCS; MCS; MOS
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF:

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>OriGene sequence for NM_017947 edited
ACTAGCCGGGGCCATGGCCGGCGCGGCGGAGTCAGGGCGGGAGCTGTGGACCTTCGC
GGGTTCCCGGGACCCGAGCGCACCGCGGCTAGCCTACGGCTACGGCCCGGCAGCCTGCG
CGAGCTGCGGGCGCGGAGTTACAGCCGCTGGCAGGAAGTGTCTATCTTGACCATGCAGG
TGCCACCTTGTCTCCAGAGCCAGCTCGAAAGCTTCACTAGTGATCTCATGGAAAACAC
TTATGGTAATCCTCACAGCCAGAACATCAGCAGCAAGCTCACCCATGACACTGTGGAGCA
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CACTGCCGGGAGCACGGCTGCTCTCAAACCTGGTGGCAGAGGCCTTCCATGGGTGTCCCA
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GGGTATGAGGAACGTGACCATGGCTATAAATGTCATATCCATCCCGGTACAGCCAGAGGA
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TCTCTTCTGCTACCCAGCTCAGAGTAACTTTTCTGGAGTCAGATACCCCTGTCTGGAT
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GCTGGATGCAGCCTCCTACGTGAGCACCTCGCCTTGGACCTGTCAGCTCACCAGGCCGA
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CACAGGCTCCAGGGTTTGAACAACCTGCTACTGTGAATGCTGTGCTGTGGCCCCACC
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GGGGGCCCTTGGGCCACATGTTGTCACTAACCTTTATCTCTATCCAATCAATCCTGTGC
TGCAATTTGAGGTGACCAGGTGGCCTGTAGGAAACCAAGGCTGCTATATGACCGGAGCTG
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GATCCAGCCCTTCATCGACTTGGCGCAAAGGATCATGGTCATCAAAGCCAAAGGGATGGA
GCCTATAGAGGTGCCTCTTGAGGAAAAATAGTGAACGGACTCAGATTGCGCCAAAGCAGGGT
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CAGTGATGAGAATGGAAAAGGAGGAATTATCTCACTGAAGGATCTCAGCTTGCCTTTTCG
TGCCAATATTATTATCAATGAAAAAGGCTTTTGAAGAAGAGAAATGGGATGAGATTTT
AATTGGCTCTTTGCGTTTCCAGGTTTTGGGCCTTGTACAGATGCCAGATGATTTGCAT
CGACCAGCAAACCTGGGCAACGAAACCAGCATGTTTTCAAACCTTTCTGAGAGTCTGTA
AACAAAGGTGAACCTTGGCATGTACCTGATGCATGCATCATTGGATTTATCTCCCATG
TTTCTGTCTGTAGGATCTCAGGTGCTCCCTGTGTTGAAAGAGAATGTGGAAGGTATGA
TTTACCTGCATCTGAGAAACACCAGGATGTTACCTCCTAAAAAAATTTTATGCATACAT
TAAAGTTTCTCTTTAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_017947 unedited NAAGTTAGGATTTTGTATACGACTTACTATAGGGCGGCCGCGATTTCGGCACGAGGACTAG CCGGGGCCATGGCCGGCGCGGGCGGAGTCAGGGCGGGAGCTGTGGACCTTCGCGGGTT CCCGGGACCCGAGCGCACCGCGGCTAGCCTACGGCTACGGCCGGGCAGCCTGCGCGAGC TGCGGGCGCGGAGTTTACGCCCTGGCAGGAAGTGTCTATCTTGACCATGCAGGTGCCA CCTTGTCTCCCAGAGCCAGCTCGAAAGCTTCACTAGTGATCTCATGGAAAACACTTATG GTAATCCTCACAGCCAGAACATCAGCAGCAAGCTCACCCATGACACTGTGGAGCAGGTGC GCTACAGAATCCTGGCGCACTTCCACACCACCGCAGAAGACTACACTGTGATCTTCACTG CCGGGAGCACGGCTGCTCTCANACTGGTGGCAGAGGCCTTCCATGGGTGTCCCAGGGCC CAGAGAGCAGTGGGAGTCGTTCTGTACCTCACCGACAGCCACACCTCCGTAGTGGGTA TGAGGAACGTGACCATGGCTATAAATGTCATATCCATCCCGGTGACGGCCAGAGGACCTGT GGTCTGCAGAGGAACGTGGTGTTCANCCAGCAACCCAGACTGCCAGCTGCCGCATCTCT TCTGCTACCCAGCTCAGAGTAACTTTTCTGGAGTCAAATACCCCTGTCTGGATAGAAA AGGTCAAGTCTGGCGGTTGCGCCCTGGGAACACGCTGGGAAATGGTTTTGGCTGCTGG ATGCAACCTTCTACTTGAGCACCTCCCCTTGGGACTGGCAGCTCACCGGCCCACTTTGTC CCATCCTCTTATAAATCTTCGGGTTCTACAGGCCGGCGCCTGTGGTCT
Restriction Sites:	Please inquire
ACCN:	NM_017947
Insert Size:	2733 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
RefSeq:	NM_017947.1 , NP_060417.1
RefSeq Size:	2729 bp
RefSeq ORF:	2667 bp
Locus ID:	55034
UniProt ID:	Q96EN8

Gene Summary:

This gene encodes an enzyme that sulfurates the molybdenum cofactor which is required for activation of the xanthine dehydrogenase (XDH) and aldehyde oxidase (AO) enzymes. XDH catalyzes the conversion of hypoxanthine to uric acid via xanthine, as well as the conversion of allopurinol to oxypurinol, and pyrazinamide to 5-hydroxy pyrazinamide. Mutations in this gene cause the metabolic disorder classical xanthinuria type II which is characterized by the loss of XDH/XO and AO enzyme activity, decreased levels of uric acid in the urine, increased levels of xanthine and hypoxanthine in the serum and urine, formation of xanthine stones in the urinary tract, and myositis due to tissue deposition of xanthine. [provided by RefSeq, Apr 2017]