

Product datasheet for **SC125313**

MARCKS (NM_002356) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MARCKS (NM_002356) Human Untagged Clone
Tag:	Tag Free
Symbol:	MARCKS
Synonyms:	80K-L; MACS; PKCSL; PRKCSL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125313 sequence for NM_002356 edited (data generated by NextGen Sequencing)

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ATGGGTGCCAGTTCTCCAAGACCCGAGCGAAGGGAGAAGCCGCCGCGGAGAGGCCTGGG
GAGGCGGCTGTGGCCTCGTCGCCTTCCAAAGCGAACGGACAGGAGAATGGCCACGTGAAG
GTA AACGCGCAGCTTCGCCCGCGGCGCCGAGTCGGGCGCCAAGGAGGAGCTGCAGGCC
AACGGCAGCGCCCGGCCGCGACAAGGAGGAGCCCGCGCCGCGGGAGCGGGCGGCG
TCGCCCTCCGCGGCCGAGAAAGGTGAGCCGGCCGCGCCGCTGCCCCGAGGCGGGGCC
AGCCCGGTAGAGAAGGAGGCCCGCGGAAGGCGAGGCTGCCGAGCCGGCTCGCCACG
GCCGCGGAGGGAGAGGCCGCGTCGGCCGCTCCTCGACTTCTTCGCCAAGGCCGAGGAC
GGGGCCACGCCCTCGCCAGCAACGAGACCCGAAAAAAAAAAGAAGCGCTTTTCCTTC
AAGAAGTCTTTCAAGCTGAGCGGCTTCTCCTTCAAGAAGAACAAGAAGGAGGCTGGAGAA
GGCGGTGAGGCTGAGGCGCCCGCTGCCGAAGGCGCAAGGACGAGCCCGCGGGGCGCA
GCTGCGGCGCCGCCGAGGCGGGCGCGGCTCCGGGGAGCAGGCAGCGGCGCCGGGCGAG
GAGGCGGCGAGCGGGCGAGGAGGGGGCGGCGGGTGGCGACCCGAGGAGGCAAGCCCGAG
GAGGCCGTGTGCGGCCAGAGAAGCCCGCCGAGCGACGAGACCAAGGCCGCGGAGGAG
CCCAGCAAGGTGGAGGAGAAAAAGGCCGAGGAGGCCGGGGCCAGCGCCGCGCCTGCGAG
GCCCTCCGCGCCGGGCGCGCCCGGAGCAGGAGGACGCCCGCGGAGGAG
CCCGCGGCGCCGCGAGCCTGTGAGCCTGCGCAGCCCCCTCACAGGAGGCCAGCCCGAG
TGCAGTCCAGAAGCCCCCAGCGGAGGCGGAGAGTAA

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Clone variation with respect to NM_002356.5



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002356 unedited
 TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCATTTTCCTCTTGT
 CTACAGTGC GGCTACAAATCTGGGATTTTTTATTACTTCTTTTTTTTCGAACTACACT
 TGGGCTCCTTTTTTGTGCTCGACTTTTCCACCCTTTTCCCTCCCTCCTGTGCTGCTGCT
 TTTTGATCTCTTCGACTAAAATTTTTTATCCGGAGTGTATTTAATCGGTTCTGTCTGT
 CCTCTCCACCACCCCAACCCCTCCCTCCGGTGTGTGCGCGTGCCTGTTGCCGCTTGG
 GCCGCTGTGCTGCTCGCCCCGTGTTACACCAACCCGAGGCTCTTTGTTTCCCCTTTG
 GATCTGTTGAGTTTCTTTGTTGAAGAAGCCAGCATGGGTGCCAGTTCTCCAAGACCGCA
 GCGAAGGGAGAAGCCCGCGGAGAGGCCTGGGGAGGCGCTGTGGCCTCGTCGCCTTCC
 AAAGCGAACGGACAGGAGAATGGCCACGTGAAGGTAAACGGCGACGCTTCGCCCGCGCC
 GCCGAGTCCGGCGCAAGGAGGAGCTGCAGGCCAACGGCAGCGCCCGGCCGCGGACAAG
 GAGGAGCCCGCGCGCCGGGAGCGGGCGGCGTCCGCTCCGCGCCGAGAAAGGTGAG
 CCGGCCCGCGCGCTGCCCGAGGCGGTGGCCAGCCCGTAGAGAAAGAGGCCCGCGG
 GAGGCGAAGTGCAGCCCGCTCGCCACGTGCGGAGGGAGAGGCCGCGTCCGCCGCC
 TTCTCGACTTCTTCGCCAGGGCCGAGGACGGGCCCGCCCTCGCCAGCACGAGACCCG
 GAAAAAAAAAAGAAGCGCTTTTCTTTCAGGAAGTCTTTCAAGCTGAGCGGCTTTTCCTT
 CAGAAGACCANAAGGAGCTTGGAAAGGCGGGAGGTTTTAGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002356 unedited
 CTCTGCACCGGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTACATTTTATT
 CACATTTATTTTCGCTTTTAGTGTGCTCACAGAAAATTAGAACACCTTAAGCAGGAGTT
 TAATAGCAATTTTGTAAAGCAAAGTTACATTCCATCTCTAAGTCAAATTGGTCAAAGCTT
 CTCAGTATTTACAAAACATGATAGACAAGATGCTACACAAAACCATTGCATCTGAAGAT
 TTTTTTCTTTATTCTCAAAGACGACTGAAAAAGAAAGCATTATCTGCTGTAATCAAAA
 ACATACCACAGTATAAACAGTAACCATTCCAATTATCACAGCTTGGTTGAGTTTAAAT
 TGTGTTTTAAAGGTCCAAGATGACTGCAGTTTTACAAAATGGGCAGGGTGGAAAGTTG
 CAACTTCATGTGCTTCTGGATATCAAGATTTGTTTTTATACAATAGCCACAGTTAAAAA
 CACCCTGCTGGTAATACATAATTACACTTTATTAAGGTCATAAACAGCAATAACAATA
 AAGCCTATACAACTTGTAGTTCTACTTAATCACTGACTGGTACAGCTAACATGAGATAAG
 TGAAGAAGTTCTATGGTTTAAATGAACTGCTAAGACTATGATCGTCTCTTTTTTTTTAA
 TCTGGCCCTTGGAGTCTTTTCTTTTTTCCCCTTTCTTTTACCTAAGACTTGTAGGGCC
 GGAAACCTGCCTCACAAAACACGGTCATAACTTTACTTTAAAAAAAAAAAAAAAAAGACAC
 GCTTTACACATTTTACGGGGCCCTATTTGGCAATGGTAGGCCCCCTCTATTTGCTCTTG
 GGACCCCTATACCCATTTGAATCCCTTCTTGACCCCACTCTCCTCATATATGCCAGGC
 CTATATGACAAAAGTTCCCTTTTGTCAAGAGCAAGTTGCCAACCTTATCCGTGCC
 AAAATAAAACAAACAT

Restriction Sites:

NotI-NotI

ACCN:

NM_002356

Insert Size:

2560 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](#)

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_002356.4](#), [NP_002347.4](#)

RefSeq Size: 2589 bp

RefSeq ORF: 999 bp

Locus ID: 4082

UniProt ID: [P29966](#)

Cytogenetics: 6q21

Domains: MARCKS

Protein Families: Druggable Genome

Protein Pathways: Fc gamma R-mediated phagocytosis

Gene Summary: The protein encoded by this gene is a substrate for protein kinase C. It is localized to the plasma membrane and is an actin filament crosslinking protein. Phosphorylation by protein kinase C or binding to calcium-calmodulin inhibits its association with actin and with the plasma membrane, leading to its presence in the cytoplasm. The protein is thought to be involved in cell motility, phagocytosis, membrane trafficking and mitogenesis. [provided by RefSeq, Jul 2008]