

Product datasheet for **MG204383**

Marcks (NM_008538) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Marcks (NM_008538) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Marcks
Synonyms:	Macs; PKCSL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204383 representing NM_008538 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGCCAGTTCTCCAAGACCGCAGCGAAGGGAGAAGCCACCGCCGAGAGGCCGGGGAGGCGGCTG
TGGCCTCGTCGCCTTCAAAGCAAATGGGCAGGAGAATGGCCACGTAAAAGTGAACGGGGACGGTCTCC
CGCCGCCCGGAGCCGGGCGCAAGGAGGAGCTGCAAGCCAACGGCAGCGCCCGGCCGCGACAAGGAG
GAGCCCGCAGCGGCAGTGCCGCGACCCCGCCGCGCCGAAAAGGATGAGGCTGCCGCGCCACCGAGC
CGGGCGCCGGCGGCCGACAAGGAGGCTGCGGAGGCCGAGCCCGCCGAGCCAGCTCCCGGCCGCGGA
GGCCGAGGGCGCTCCGCTCCTCCACGTCGTCGCCAAGGCGGAGGACGGGGCCGCGCCGTCGCCAGC
AGCGAGACCCGAAAAAAAAAAGAAGCGCTTTTCTTCAAGAAGTCTTCAAGCTGAGCGGCTTCTCT
TCAAGAAGAGCAAGAAGGAGTCGGGCGAGGGCGCTGAAGCAGAGGGAGCGACCGCGAAGGCGCAAAGGA
CGAGGCTGCAGCCGACGCGGGCGGCGAGGGGGCCGCGCCCGGGGAGCAGGCAGGCGGGGCGGGCGCC
GAGGGCGCGGGCGGAGAGCCCGGGAGGCCGAGGCGGCGGAGCCGAGCAGCCGAGCAGCCGAGC
AGCCCGCGGGGAGGAGCCGAGCGGAGGAGCAGTCGGAGGCGGGGAGAAGGCGGAGGAGCCCGC
GCCCGGCCACCGCGGGCGATGCGTCTCCGCCGAGGGCTGAGCAGGAGCGCCCGTCCACCGAC
GAGGCCCGGGCGTCCGACGCCCGCGCGTCCCGGAGCCGAGCCGAGTGCAGTCCGGAGGCCCGCC
CCGCGCCAACGGCCGAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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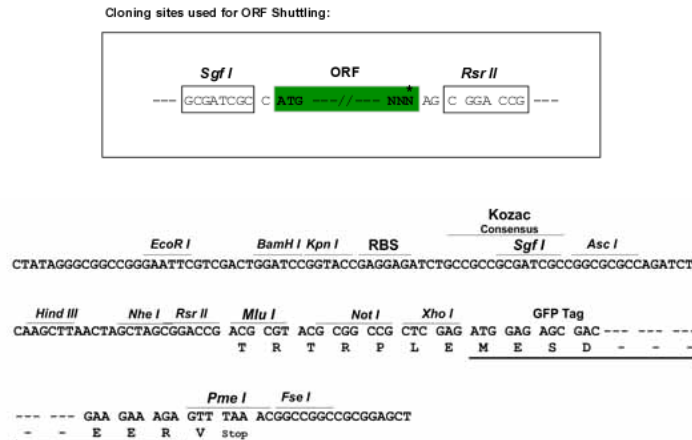
Protein Sequence: >MG204383 representing NM_008538
 Red=Cloning site Green=Tags(s)

MGAQFSKTAAKGEATAERPGEAAVASSPSKANGQENGVKNGDASPAAEPGAKEELQANGSAPAADKE
 EPASGSAATPAAAEKDEAAAAEPGAGAADKEAAEAEPSPAAEAEGASASSTSSPKAEDGAAPSPS
 SETPKKKKKRFSFKKSKFLSGFSFKKSKKESGEGAEAGATAEGAKDEAAAAAGGEGAAAPGEQAGGAGA
 EGAAGGEPREAAEAPEQPEQPEQPAEEQQAEEQSEAAGEKAEEPAPGATAGDASSAAGPEQEPAAATD
 EAAASAAPAASPEPQPECSPEAPPAPTAE

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_008538

ORF Size: 927 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_008538.2](#), [NP_032564.1](#)

RefSeq Size: 4186 bp

RefSeq ORF: 930 bp

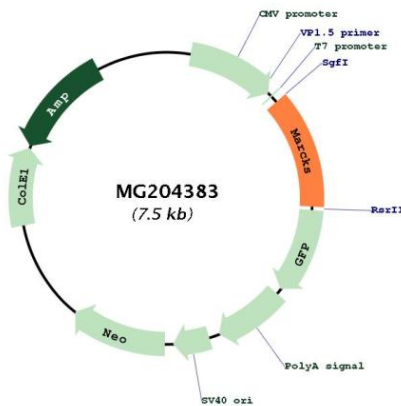
Locus ID: 17118

UniProt ID: [P26645](#)

Cytogenetics: 10 19.49 cM

Gene Summary: MARCKS is the most prominent cellular substrate for protein kinase C. This protein binds calmodulin, actin, and synapsin. MARCKS is a filamentous (F) actin cross-linking protein. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204383