

Product datasheet for **MC206140**

Calm3 (BC050926) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calm3 (BC050926) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Calm3
Synonyms:	CaMA; R75142
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC050926
 TGGCGGCAAAGAGTGTGGAGGCGCGGACGCGCGGCGGAGCTCGAGCTGCTGCAGCTGCTGCCGCCCCAG
 AGTAACCTCGACCCCGAGCTCCGGATACCGGTGCCTCGCCATGGCTGACCAGCTGACTGAGGAACAGAT
 TGCAGAGTTCAAGGAAGCCTTCTCCCTCTTCGACAAGGATGGAGATGGCACCATTACCACCAAGGAGCTG
 GGGACTGTGATGAGATCGCTGGGACAGAACCCACTGAGGCGGAGCTGCAGGACATGATTAATGAGGTGG
 ATGCTGATGGCAATGGGACCATTGACTTCCCAGAGTTCTTGACCATGATGGCCAGAAAGATGAAGGATAC
 AGACAGCGAGGAGGAGATACGAGAGGCCTTCCGTGTCTTTGACAAGGATGGGAATGGCTATATTAGCGCT
 GCCGAGCTGCGTCACGTCATGACGAACCTGGGGGAGAAGCTGACAGATGAGGAAGTGGATGAGATGATCC
 GAGAGGCCGACATTGATGGAGATGGCCAGTCAATTATGAAGAGTTTGTACAGATGATGACTGCCAAGTG
 AAGGCCCGGGCAGCTGGCCATGCCGTTCTCTGATCTCTTCTCGCGCTCTCTCTTTCAACACTCCCC
 TCGTACCCGTTCTAGCAAACAGCAATTGATTGACTGAGAATCTGATAAAGCACCAAAAGATTTGCC
 AAGCTGCATGACTGCTCTCTCTCTCTCTCTGACTGTCCCTCCACGCCCTACCCTCTCTTTGGCCTT
 CCCCTTCCATTCCAGTCTCCAGGCTGATGCATTACAAGGTGAACCCATTGCCCTGCCCTGGGAGC
 CTCTGCCCTCTCTCCAGCCCGGATGGCTCTCTCCGGTTTTGGTTTGTTCCTTTTGGTTTGCCTTCT
 TTTGGGTGCCGGGTGGCCACCATTCTGTCCCTGCTCAGTGGGAGGGGAGCAAGGCCCTCTGCCAGGT
 GGAGGAGCATGTCCCCTGCCACTGTCGATGCACCCAGCCCTGTGACTCTGTGTGCAAGCCAGCAGCC
 TGTGGGGCGGGTGCCAAGAGGGGATGACGGGACGTTCCAGGACCGAGGGAGTTGAGGATGTGACCCAGG
 ACGGGGGCGGGGGGGGGTGTGTGTGTGGAAGGTGGGAAGAGGCAGGAAGGCCTTGGAAGCTAAC
 TGCTTTGCTACTGGAGGGGACTGCATAGAGTGGACGGCACTCGGGTCTCGCTGCCGCTTCTGAAAC
 CATCTGGCTGGCTTCTGAGGTCAGGCTGGGTGGGGGGTGTCTCGCCATGCTGCCGATCATACTCGC
 CCTCTCATCCCTCCAGCCATGTCCGCTGTTCTGTAATACTGGTGTAAACATCCCATGCCGCTCCCC
 CGTGGCACCCCGACCCAGTCCAGGCTCAGGGCTGGTCCAGGAATGGATGTGGGGGATGGTCTGTGT
 AATGTGCCGGTGTCTTTTTTCCCTTTCCCTTTATGCCCTTAAAACCTTTGATTTTTGTCTAAACAT
 GCCGGCCAACTAAAGGTGGGGAGAGGAGAGATGCGCCCCACCATGCTACAAGAACCAACCTGCAATA
 AACACTTCTATGGCCGCGCGCAGAGCAGCAGCGGGCACCTCTGCCCTCCGTGGTACTTGGCATT
 GCTTTCTGCCCTCGCCCTGCCTGCCCACTCCCCAGCGGAGAGCATGATCCGCACCCTTGTCTGACTC
 TAGCCTCTGGGACACGTCAACGCGGGCAGTTCGGTCTGGGTTCTTTCTTTCTGTTCTCATCT
 GGCCCCCAGGGTATCTTGTGCTTTTGTGGGACCTGCCAGCTTTGAGACTCTCCACCCCTTGGCAC
 CAGCCTTAAGGGAGGGAGGGACAGAGCAAATCAGGAGACCCAGCCTAGAGTTGAGGGCAAGGGCAGGTAG
 GCGTGAGGCTGTGACTTTGCGGAATGTTTCGGGGTTTTATTTTGGTTTTTGTTCCTTTTTTTTTT
 TTTTTTTAAACAAACAAACAAACCGGGCAATATTGTGTTCAAGCTGTGAAGAAAAATATATATC
 AATGTTTTCCAATAAAATACAGTACTACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI

ACCN: BC050926

Insert Size: 450 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC050926](#), [AAH50926](#)

RefSeq Size: 2155 bp

RefSeq ORF: 450 bp

Locus ID: 12315

Cytogenetics: 7 9.15 cM

Gene Summary: Calmodulin mediates the control of a large number of enzymes, ion channels, aquaporins and other proteins through calcium-binding. Among the enzymes to be stimulated by the calmodulin-calcium complex are a number of protein kinases and phosphatases. Together with CCP110 and centrin, is involved in a genetic pathway that regulates the centrosome cycle and progression through cytokinesis. Mediates calcium-dependent inactivation of CACNA1C. Positively regulates calcium-activated potassium channel activity of KCNN2.[UniProtKB/Swiss-Prot Function]