

Product datasheet for **RR209749**

Camkmt (NM_001134463) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camkmt (NM_001134463) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Camkmt
Synonyms:	CaM KMT; CLNMT; RGD1310453
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR209749 representing NM_001134463 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTCGCAGGTGCGGTTGCTGGGGATGGAGAGACTGAGGCAGAGGCGGGCAAGGTCCCATGATTG
 ACAGTGCCAGCCAAGGGTCGCTGGTCTCGGCGCCCAAGGGGGCTGTCCGGTGGAAGCTCCTGCGACAGGT
 TCTGAAGCAGAAACAGCTGGATGACGGCCTGAGACATGTATCTGTGAGAAGATTTGAATCATTTAATCTG
 TTCTCAGTCACAGAGGCCAAAAACAGGGAACTGAAAAAGAGGCTGGTGGTGGTCCAGTACACAAGCA
 TCTTTTATCCCGAGTACAGCATCTCCTTAAGGCGTAATAGTGGATCCTTGAGTGTGAAGACGTACTGAC
 CAGCTTTGACAACACAGGGAATGTCTGCATCTGGCCGTCTGAGGAGGTGTTGGCTTACTACTGCCTCAAG
 CACAGCCATTTATTACAGGACCTTGCTGTGTGTGAGCTAGGGGGTGGCATGACATGCTTGGCTGGCTCA
 TGGTTGCTATTTCTGCAGATGTCAAAGAAGTTCTGCTAACTGATGGGAATGAAAAGGCCATCAGAAATGT
 GAACAGCATCATCGCAAGCAACAAGAAGACTGGCGTGTCAAGACTCAGAAAATATCAAGCTGCGTTTTA
 CGATGGGATAATAAGACAGATGTCTCTCAACTGGAAGGACATTTTGACATTGTTATGTGTGCTGACTGCC
 TGTTCTGGACCACTACAGAGCCAGCCTTGTTGATGCAATAAAGAGATTACTCCAGCCCTCAGGGAAGC
 ATTGGTATTTGCCCCACGCCGAGGGAATACTTTCAACCACTTTTGCAATCTAGCAGAAAAAGCCGGTCTC
 TCCCTCCAAAGACATGAAAATTACGATGAGCGCATTTCAAACCTTCCACTCCAAGTTAAAAAAGAAGGGT
 CGGACGTATATGAAGAAAATCTCCACTACCCACTTCTACTTATTTTAACCAAAACGGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR209749 representing NM_001134463
Red=Cloning site Green=Tags(s)

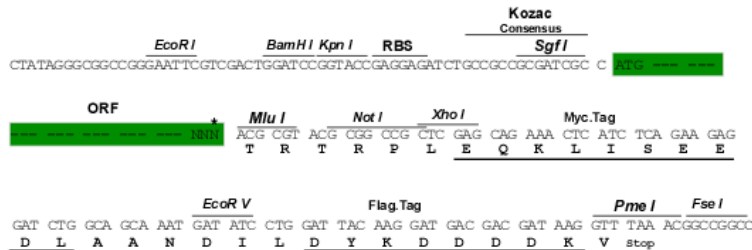
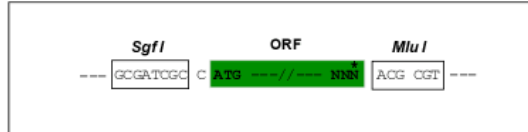
MESQVAVAGDGETEAEAGKGPIDSASQGSLSAPKGAVRWKLLRQVLKQKQLDDGLRHVSRRFESFNL
FSVTEAKNRGTEKEAGAWQYTSIFYPEYSISLRNSGSLSVEDVLTSDNTGNVCIWPSEEVLAYYCLK
HSHLFRDLAVCELGGMTCLAGLMVAISADVKEVLLTDGNEKAIRNVNSIIASNKKTGVFKTKIISCVL
RWDNKTQVSLQEGHFDIVMCADCLFLDQYRASLVDAIKRLLQPSGKALVFAPRRGNTFNQFCNLAEKAGL
SLQRHENYDERISNFHSLKKEGSDVYEENLHYPLLLILTKTG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001134463

ORF Size: 969 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_001134463.1](#), [NP_001127935.1](#)

RefSeq Size: 1479 bp

RefSeq ORF: 972 bp

Locus ID: 299521

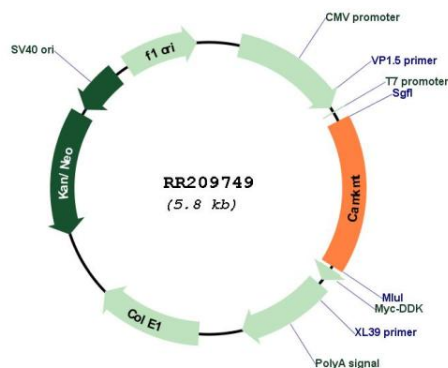
UniProt ID: [B0K012](#)

Cytogenetics: 6q12

MW: 35.9 kDa

Gene Summary: Catalyzes the trimethylation of 'Lys-116' in calmodulin.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR209749