

Product datasheet for **MG214721**

Camkmt (NM_028576) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camkmt (NM_028576) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Camkmt
Synonyms:	1700106N22Rik; AI480743; AV099781; CaM KMT; CLNMT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG214721 representing NM_028576 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTCGCAGGTCGCGGCCGCTGGGGCTGCAGAGACTGAGGCAGAGGCGGGCAAGCGTCCCGCATGG
 GCAGTGCCAGCCAGGGCTCGCTGGTCTCGGCGCCCAAGGGGGCCGTCGGTGGCAGCTTCTGCGACAGGT
 TCTGAAGCAGAAACAGTTGGATGATCATCTGAGACATGTATCTGTGAGAAGATTTGAATCATTTAATCTG
 TTCTCAGTCACAGAAGCCACAAAAAGGGAAGTAAAAAGAGGCTGGTGTGTGGTCCAGTACACAAGCA
 TCTTTTATCCCAAATACAGCATCTCCGTAAGGCATAATAGTGGATCCTTGAATGTGAAGACGTCCTTAC
 CAGCTTTGACAACACAGGAAATGTTTGCATCTGGCCATCCGAGGAGGTCCTGGCTCACTACTGCCTCAAG
 CACAGTCATATATTCAGGGACCTTGCTGTGTGTGAGCTAGGGGGTGGCATGACATGCTTGGCTGGGCTCA
 TGGTTGCTATTTCTGCAGATGTCAAAGAAGTTCTGCTAACTGATGGGAATGAAAAGGCCATCAGAAATGT
 GGACAGCATCATCGCATGCAATAAGAAGACTGGTGTGTTTAAGACTCCGAAAATATCAAGCCGCGTTTTA
 CGATGGGATAATGAGACAGACGCTCTCAACTGGAAGGACATTTTGACATTGTTATGTGTGCTGACTGCC
 TGTTTCTGGACCACTACAGAGCCAGCCTTGTTGATGCCATAAAGAGATTACTCCAGCCCACAGGGAAGC
 GGTGGTATTTGCCCCACGCCGAGGGAATACTTTCAACCAGTTTGAATCTAGCTGAAAAAGCTGGTTTC
 TCTCTCAAAGACATGAAAATTACGATGAGCCCATTTCAAACCTTCCACTCCAAGTTGAAAAAGAAGGGT
 CAGACATATATGAAGAAAACCTGCACTACCCACTTCTGCTTATTTTAACCAAAACGGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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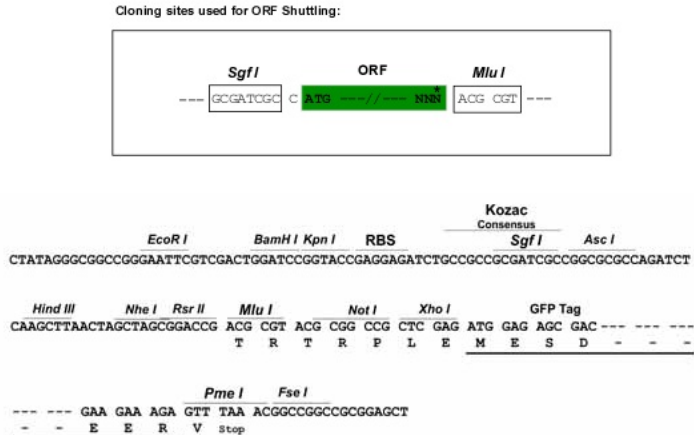
Protein Sequence: >MG214721 representing NM_028576
 Red=Cloning site Green=Tags(s)

MESQVAAAGAAETEAEAGKRPAMGSASQGSLSAPKGAVRWQLLRQVLKQKQLDDHLRHVSRRFESFNL
 FSVTEATKKGTEKEAGVWVQYTSIFYPKYSISVRHNSGSLNVEDVLTSTFDNTGNVCIWPSEEVLAHYCLK
 HSHIFRDLAVCELGGMTCLAGLMVAISADVKEVLLTDGNEKAIRNVDSIIACNKKTGFKTPKISSRVL
 RWDNETDVSQLEGHFDIVMCADCLFLDQYRASLVDAIKRLLQPTGKAVVFAPRRGNTFNQFCNLAEKAGF
 SLQRHENYDEPISNFHSLKKEGSDIYEENLHYPLLLILTKTG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028576

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_028576.3](#)

RefSeq Size: 1439 bp

RefSeq ORF: 972 bp

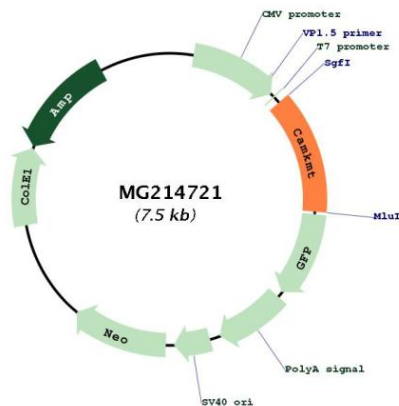
Locus ID: 73582

UniProt ID: [Q3U2J5](#)

Cytogenetics: 17 E4

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

Product images:



Circular map for MG214721