

Product datasheet for **MR207505**

Camk4 (NM_009793) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camk4 (NM_009793) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Camk4
Synonyms:	A430110E23Rik; AI666733; CaMKIV; CaMKIV/Gr; D18Bwg0362e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207505 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCAAAGTCACGGTGCCTCCTGTCCCTCCTCGCCCTGCTCCTCGGTACCCGACACTGAGAACC
 TCGTCCCGGATTACTGGATCGACGGCTCTAACCGAGATCCTCTGGCGATTTCTTCGAGGTGGAGTCAGA
 GCTGGGACGGGGTCTACATCCATTGTGTACAGATGCAAACAGAAAGGGGACCCAGAACCCCTATGCTCTC
 AAAGTGTAAAGAAAACAGTGGACAAGAAGATTGTGAGAACAGAAATAGGAGTTCTCCTGCGTCTCTCAC
 ACCCGAACATCAAAAACCAAGGAAATATTCGAAACCCACAGAAATCAGCCTGGTCTTGAGCTGGT
 CACAGGAGGAGAACTGTTTGACAGGATTGTGGAGAAGGGATACTACAGTGAAGCGGATGCGGCTGACGCG
 GTGAAGCAGATCCTGGAGGCCGTTGCTTACCTGCATGAAAATGGGATTGCCATCGTACCTCAAACCGAG
 AGAATCTTCTTTATGCAACTCCAGCCCCTGATGCACCCCTCAAATTTGCTGATTTTGGACTTTCAAAAAT
 TGTGGAACATCAAGTGCATGAAGACAGTGTGTGGAACCCCGGGTACTGCGCACCTGAGATTCTCCGA
 GGCTGTGCCTACGGACCTGAGGTGGACATGTGGTCTGTAGGAATAATCACCTACATCCTACTTTGTGGAT
 TTGAACATTCTATGACGAGCGAGGTGATCAGTTCATGTTTCAGGAGAATTCTGAATTGTGAATTAATCTT
 TATCTCCCTGGTGGGATGAAGTGTCTTTAAATGCCAAGGACTTGGTCAAAAAGCTCATTGTTTTGGAT
 CCCAAGAAACGGCTGACTACATTTCAAGCCCTCCAACACCCATGGGTACAGGTAAGCGGCCAACTTTG
 TTCACATGGACTGCTCAGAAGAACTTCAAGAATTCATGCTCGGCGCAAGCTTAAGGACGGGTGAA
 GGCTGTGGTGGCTCTTCTCGGCTGGGAAGTCCAGCAGTAGCCACACAGCATCCAAGAGAACCACAAG
 GCCAGCTCGGATCCACCTTCAACCAAGATGCCAAGGACAGCACAGATCTTCTGGGAAAGAAAATGCAAG
 AGGAGGACCAAGAGGAGGACCAAGTGGAGGCCGAGGCTTACAGCCGATGAGATGAGGAAGCTGCAGTCCGA
 GGAGGTGGAGAAAGATGCAGGTGTAAAAGAGGAGGAGACCTCCAGTATGGTGCCTCAGGATCCAGAGGAT
 GAGCTGGAAACAGATGACCCAGAGATGAAGAGGGATTGAGAGGAGAAGCTGAAGAGTGTGGAGGAAGAAA
 TGGACCCCATGACTGAGGAGGAAGCCCTGACGCGGGACTTGGGGTTCCACAGCAGGATGCGATTACGCC
 AGAGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207505 protein sequence
 Red=Cloning site Green=Tags(s)

MLKVTVPSPSSPCSSVTASTENLVPDYWIDGNSRDLGDFFEVESELGRGATSIYYRCKQKGTQKPYAL
 KVLKKTVDKKIVRTEIGVLLRLSHPNIIKLKEIFETPTEISLVLELVTGGELFDRIIVEKGYSSERDAADA
 VKQILEAVAYLHENGIVHRDLKPENLLYATPAPDAPLKIADFGLSKIVEHQVLMKTVCGTPGYCAPEILR
 GCAYGPEVDMWSVGIITYILLCGFEPFYDERGDQFMFRILNCEYYFISPWWDEVSLNAKDLVKKLIVLD
 PKKRLTTFQALQHPWVTGKAANFVHMDTAQKKLQEFNARRKLKAAVKAVVASSRSLGSSSHTSIQENHK
 ASSDPPSTQDAKDSTDLLGKKMQEEDQVEAEASADEMRKLQSEEVEKDAGVKEEETSSMVPQDPED
 ELETDDPEMKRDSEEKLSVEEEMDPMTEEEAPDAGLVGPQDAIQPEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_009793

ORF Size: 1410 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_009793.3](#)

RefSeq Size: 12331 bp

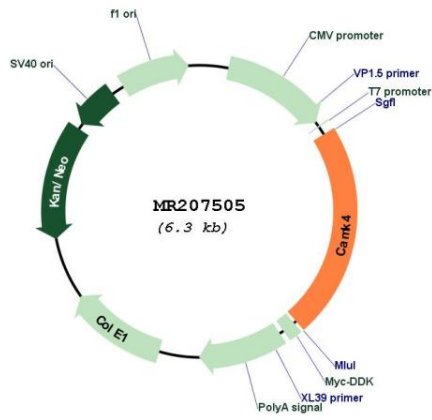
RefSeq ORF: 1410 bp

Locus ID: 12326

Cytogenetics: 18 18.15 cM

MW: 52.5 kDa

Product images:



Circular map for MR207505