

Product datasheet for **MR206826**

Mark3 (BC026445) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mark3 (BC026445) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mark3
Synonyms:	ETK-1, Emk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206826 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGACAGGTGGATCAATGCAGGCCATGAGGAGGATGAGCTTAAGCCATTTGTTGAACCAGAACTAG
 ACATCTCAGACCAGAAGAGAATAGATATTATGGTGGGAATGGGATATCCCAAGAAGAAAATCAAGAATC
 TCTTAGCAAAATGAAATACGATGAAATCACAGCTACTTACTTGCTACTGGGGAGGAAGTCTGCAGAGCTG
 GACGCTAGTGACTCCAGTTCTAGCAGCAACCTTCACTTGCTAAGGTGCGGCCAAACAGTGACCTCAGCA
 ATAGCACTGGCCAGTCTCCTCATCACAAGGGCAGAGAAGTGTTCCTCAAGTCAGAAGCAGAGACGGTA
 CAGTGACCACGCTGGACCAGCTATTCTTCAGTTGTGGCATAATCCAAAGAGGAGTCAGACCAGCACTGCA
 GATAGTGACCTCAAAGAAGATGGAATCCCTCCGAAAATCAAGCAGCAGTGCTGTAGGAGGGAAGGGGA
 TTGCTCCTGCCAGTCCCATGCTTGGGAATGCAGGCAATCCAATAAAGCCGATATCCCTGAGCGCAAGAA
 AAGCCCTGCTGTGCCAGTAGTAACACAGCATCTGGTGGGATGACACGGCGGAACACTTACGTTTGCAGC
 GAGAGATGTGCAGCAGACAGACATTCTGTGATTCAGAACGGCAAAGAAAACAGCGCTATTCAGATGAGA
 GAACTCCAGTTGCTTCAACCCACAGTATTAGCAGTGCGACCACCCAGATCGCATCCGCTTTCCTAAGGGG
 CACAGCCAGCCGTAGCACTTTCATGGCCAACCTCGGGAGCGGCAACCGCAACATATAATGGCCACCT
 GCCTCACCCAGCTTGCCATGAAGCCACACCGCTGTCTCAGACTCGAAGCCGAGGTTCCACTAATCTTT
 TTAGTAAATTAACCTTCAAACCTCACAAGAAGTCGCAATGTGTCTTCAGAGCAGAAGGATGAGAACAGAGA
 GGCCAAGCCCCGCTCCCTGCGCTTACCTGGAGCATGAAGACCAGAGCTCCATGGACCCAGTGACATG
 ATGCGGGAGATCCGAAGGTGCTGGACGCCAATAACTGCGACTACGAGCAGAGGGAGCGCTTCTGCTCT
 TCTGTGCCATGGCGACGGGCACGCAGAGAACCCTGGTACAGTGGGAAATGGAAGTCTGTAAGCTGCCAAG
 ACTGTCTCTGAATGGAGTCCGGTTAAGCGGATATCAGGGACATCCATAGCTTTCAAAAATATTGCTTCC
 AAAATTGCCAATGAGCTAAAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206826 protein sequence
 Red=Cloning site Green=Tags(s)

MKDRWINAGHEEDELKPFVEPELDISDQKRIDIMVGMGYSQEIIQESLSKMKYDEITATYLLLGRKSAEL
 DASDSSSSNLSLAKVRPNSDLNSTGQSPHHKQRSVSSSQKQRRYSDHAGPAIPSVVAYPKRSQTSTA
 DSDLKEDGIPSRKSSSSAVGGKIAPASPMLGNAGNPNKADIPERKKSPAVPSSNTASGGMTRRNTYVCS
 ERCAADRHSVIQNGKNSAIPDERTPVASTHSISSATTPDIRIFPRGTASRSTFHGQPRERRTATYNGPP
 ASPSLSHEATPLSQTRSRGSTNLF SKLTSKL TRSRNVSEQK DENREAKPRSLRF TWSMKTSSMDP
 MREIRKVL DANNCDYEQRERFL LFCVHGDGHAENLVQWEMEVC KLPRLSLNGVRFKRISGTSIAFKNIAS
 KIANELKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC026445

ORF Size: 1284 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: [BC026445](#), [AAH26445](#)

RefSeq Size: 1865 bp

RefSeq ORF: 1286 bp

Locus ID: 17169

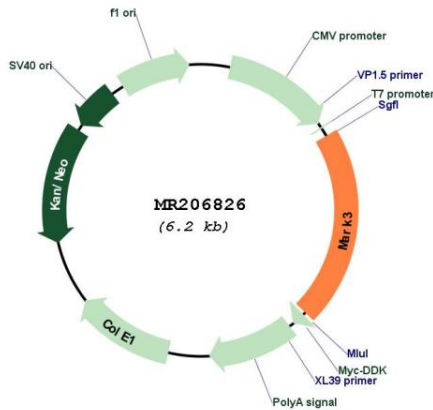
Cytogenetics: 12 F1

MW: 47.2 kDa

Gene Summary:

Serine/threonine-protein kinase. Involved in the specific phosphorylation of microtubule-associated proteins for MAPT/TAU, MAP2 and MAP4. Phosphorylates CDC25C. Regulates localization and activity of some histone deacetylases by mediating phosphorylation of HDAC7, promoting subsequent interaction between HDAC7 and 14-3-3 and export from the nucleus. Negatively regulates the Hippo signaling pathway and antagonizes the phosphorylation of LATS1. Cooperates with DLG5 to inhibit the kinase activity of STK3/MST2 toward LATS1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206826