

Product datasheet for MC217718

Mark3 (BC026445) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mark3 (BC026445) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mark3
Synonyms:	ETK-1, Emk2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC026445 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGACAGGTGGATCAATGCAGGCCATGAGGAGGATGAGCTTAAGCCATTTGTTGAACCAGAAGTACAG
ACATCTCAGACCAGAAGAGAATAGATATTATGGTGGGAATGGGATATCCCAAGAAGAAATCAAGAATC
TCTTAGCAAAATGAAATACGATGAAATCACAGCTACTTACTTGTCTACTGGGGAGGAAGTCTGCAGAGCTG
GACGCTAGTGACTCCAGTTCTAGCAGCAACCTTCACTTGTCTAAGGTGCGGCCAAACAGTGACCTCAGCA
ATAGCACTGGCCAGTCTCCTCATCAAAAGGGCAGAGAAGTGTTCCTCAAGTCAGAAGCAGAGACGGTA
CAGTGACCACGCTGGACCAGCTATTCCTTCAGTTGTGGCATATCCAAAGAGGAGTCAAGCAGCACTGCA
GATAGTGACCTCAAAGAAGATGGAATTCCTCCCGAAAATCAAGCAGCAGTGCTGTAGGAGGGAAGGGGA
TTGCTCCTGCCAGTCCCATGCTTGGGAATGCAGGCAATCCCAATAAAGCCGATATCCCTGAGCGCAAGAA
AAGCCCTGCTGTGCCAGTAGTAACACAGCATCTGGTGGGATGACACGGCGGAACACTTACGTTTGCAGC
GAGAGATGTGCAGCAGACAGACATTCTGTGATTCAGAACGGCAAAGAAAACAGCGCTATTCAGATGAGA
GAACTCCAGTTGCTTCAACCCACAGTATTAGCAGTGCAGCACCAGATCGCATCCGCTTCCAGGGG
CACAGCCAGCCGTAGCACTTCCATGGCCAACCTCGGGAGCGGCAACCGCAACATATAATGGCCACCT
GCCTCACCCAGCTTGTCCTATGAAGCCACACCGCTGTCTCAGACTCGAAGCCGAGTTCCACTAATCTTT
TTAGTAAATTAACCTCCAAACTCACAAGAAGTCGCAATGTGTCTCAGAGCAGAAGGATGAGAACAGAGA
GGCCAAGCCCCGCTCCCTGCGCTTACCTGGAGCATGAAGACCAGAGCTCCATGGACCCAGTGACATG
ATGCGGGAGATCCGAAGGTGCTGGACGCCAATAACTGCGACTACGAGCAGAGGGAGCGCTTCTGCTCT
TCTGTCTCATGGCGACGGGCACGCAGAGAACCTGGTACAGTGGGAAATGGAAGTCTGTAAGCTGCCAAG
ACTGTCTCTGAATGGAGTCCGGTTAAGCGGATATCAGGGACATCCATAGCTTTCAAAAATATTGCTTCC
AAAATTGCCAATGAGCTAAGCTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	BC026445
Insert Size:	1287 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:	<ol style="list-style-type: none">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:	<u>BC026445</u> , <u>AAH26445</u>
RefSeq Size:	1865 bp
RefSeq ORF:	1286 bp
Locus ID:	17169
Cytogenetics:	12 F1
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]