

Product datasheet for **MC221224**

Mark3 (NM_021516) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mark3 (NM_021516) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mark3
Synonyms:	1600015G02Rik; A430080F22Rik; C-TAK1; Emk2; ETK-1; ETK1; MPK10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221224 representing NM_021516
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCACTAGGACCCCTTTGCCAACGGTGAATGAACGAGACACTGAAAACCACATTTACATGGAGACG
 GGAGGCAAGAAGTCACCTCCCGCACCGGGCGCTCTGGAGCTCGGTGTAGAACTCAATAGCTTCTGTGC
 AGATGAACAGCCTCACATCGGAACTACAGACTGTTGAAAAAATCGGCAAGGGAACTTTGCAAAAGTG
 AAATTGGCGAGACACATCCTCACAGGCCGAGAGTTGCAATAAAAATAATTGACAAAACAGTTGAATC
 CAACAAGTCTACAAAAGCTTTCAGAGAAGTAAGAATAATGAAGATTTTAAATCACCCAAACATAGTGAA
 GTTGTTCGAAGTCATTGAAACGGAAAAAAGCTCTACTTAATCATGGAATATGCAAGTGGAGGTGAAGTA
 TTTGACTATTTGGTTGCACATGGAAGAATGAAGGAAAAAGAAGCAAGAGCTAAATTTAGACAGATTGTTT
 CCGCAGTACAGTATTGCCACAAAACGGATTGTTACAGAGACCTCAAGGCTGAAAATCTGTTATTAGA
 TGCGGATATGAACATTAAGTAGCAGATTTTGGTTTTAGCAATGAATTTACTGTTGGCAGTAAACTAGAC
 ACGTTTTGTGGTAGTCTCCATATGCAGCCCTGAGCTCTCCAGGGCAAGAAGTATGACGGGCCAGAAG
 TCGACGTGTGGAGCCTCGGTGTCATTCTACACCCTAGTCAGTGGTTCGCTTCCCTTTGATGGTCAAAA
 CCTGAAGGAACTGAGAGAGAGACTCCCGGGAAAGTACAGAATCCCTTTCTACATGTCCACAGACTGC
 GAGAACCTTCTCAAGCGCTTCTGGTGTGAACCCAGTTAAACGGGGCACTCTCGAGCAAATCATGAAGG
 ACAGGTGGATCAATGCAGGCCATGAGGAGGATGAGCTTAAGCCATTTGTTGAACCAGAAGTAGACATCTC
 AGACCAGAAGAGAATAGATATTAGTGGGAATGGGATATTCCAAGAAGAAATCAAGAATCTCTTAGC
 AAAATGAAATACGATGAAATCACAGCTACTTACTTGTACTGGGGAGGAAATCTGCAGAGCTGGACGCTA
 GTGACTCCAGTTCTAGCAGCAACCTTTCACTTGAAGTTCGGCCAAACAGTACCTCAGCAATAGCAC
 TGGCCAGTCTCCTCATCACAAAGGGCAGAGAAGTGTTCCTCAAGTCAGAAGCAGAGACGGTACAGTGAC
 CACGCTGGACCAGCTATTCTTCAGTTGTGGCATATCCAAGAGGAGTCAGACCAGCACTGCAGATAGTG
 ACCTCAAAGAAGATGGAATTCCTCCCGAAAATCAAGCAGCAGTGTGTAGGAGGGAAGGGGATTGCTCC
 TGCCAGTCCCATGCTTGGGAATGCAGGCAATCCAATAAAGCCGATATCCCTGAGCGCAAGAAAAGCCCT
 GCTGTGCCAGTAGTAACACAGCATCTGGTGGGATGACACGGCGGAACACTTACGTTTGCAGCGAGAGAT
 GTGCAGCAGACAGACATTCTGTGATTAGAACGGCAAAGAAAACAGCGCTATTCCAGATGAGAGAAGTCC
 AGTTGCTTCAACCACAGTATTAGCAGTGCACCACCCAGATCGCATCCGCTTTCCAAGGGGCACAGCC
 AGCCGTAGCACTTCCATGGCCAACCTCGGGAGCGGCAACCCGAACATATAATGGCCACCTGCCTCAC
 CCAGCTTGTCCATGAAGCCACACCGCTGTCTCAGACTCGAAGCCGAGGTTCCACTAATCTTTTTAGTAA
 ATTAACCTCCAAACTCACAAGAAGACTTCCAAGTGAATATGAGAGGAACGGGAGATATGAGGGCTCAAGT
 CGCAATGTGTCTTCAGAGCAGAAGGATGAGAACAGAGAGGCCAAGCCCGCTCCCTGCGCTTACCTGGA
 GCATGAAGACCACGAGCTCCATGGACCCAGTGACATGATGCGGGAGATCCGCAAGGTGCTGGACGCCAA
 TAACTGCGACTACGAGCAGAGGGAGCGCTTCTGCTCTTCTGTGTCATGGCGACGGGCACGCAGAGAAC
 CTGGTACAGTGGGAAATGGAAGTCTGTAAGCTGCCAAGACTGTCTCTGAATGGAGTCCGGTTTAAGCGGA
 TATCAGGGACATCCATAGCTTTCAAAAATATTGCTTCAAAAATTGCCAATGAGCTAAAGCTG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_021516

Insert Size: 2235 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>NM_021516.4</u> , <u>NP_067491.2</u>
RefSeq Size:	3388 bp
RefSeq ORF:	2235 bp
Locus ID:	17169
UniProt ID:	<u>Q03141</u>
Cytogenetics:	12 F1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>