

## Product datasheet for **MG206826**

### Mark3 (BC026445) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mark3 (BC026445) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Mark3  
**Synonyms:** ETK-1, Emk2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG206826 representing BC026445  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGACAGGTGGATCAATGCAGGCCATGAGGAGGATGAGCTTAAGCCATTTGTTGAACCAGAAGCTAG  
ACATCTCAGACCAGAAGAGAATAGATATTATGGTGGGAATGGGATATCCCAAGAAGAAATCAAGAATC  
TCTTAGCAAAATGAAATACGATGAAATCACAGCTACTTACTTGCTACTGGGGAGGAAGTCTGCAGAGCTG  
GACGCTAGTGACTCCAGTCTAGCAGCAACCTTCACTTGCTAAGGTGCGCCAAACAGTGACCTCAGCA  
ATAGCACTGGCCAGTCTCCTCATCACAAGGGCAGAGAAGTGTTCCTCAAGTCAGAAGCAGAGACGGTA  
CAGTGACCACGCTGGACCAGCTATTCTTCAGTTGTGGCATATCCAAAGAGGAGTCAGACCAGCACTGCA  
GATAGTGACCTCAAAGAAGATGGAATTCCTCCCGAAAATCAAGCAGCAGTGCTGTAGGAGGGAAGGGGA  
TTGCTCCTGCCAGTCCCATGCTTGGGAATGCAGGCAATCCCAATAAAGCCGATATCCCTGAGCGCAAGAA  
AAGCCCTGCTGTGCCAGTAGTAACACAGCATCTGGTGGGATGACACGGCGGAACACTTACGTTTGCAGC  
GAGAGATGTGCAGCAGACAGACATTCTGTGATTCAGAACGGCAAAGAAAACAGCGCTATTCCAGATGAGA  
GAACTCCAGTTGCTTCAACCCACAGTATTAGCAGTGCAGCACCCAGATCGCATCCGCTTTCCAAGGGG  
CACAGCCAGCCGTAGCACTTTCCATGGCCAACCTCGGGAGCGGCAACCGCAACATATAATGGCCCACT  
GCCTCACCCAGCTTGCCATGAAGCCACACCGCTGCTCAGACTCGAAGCCGAGGTTCCACTAATCTTT  
TTAGTAAATTAACCTTCCAAACTCACAAGAAGTCGCAATGTGCTTCAGAGCAGAAGGATGAGAACAGAGA  
GGCCAAGCCCGCTCCCTGCGCTTACCTGGAGCATGAAGACCACGAGCTCCATGGACCCAGTGACATG  
ATGCGGGAGATCCGAAGGTGCTGGACGCAATAACTGCGACTACGAGCAGAGGGAGCGCTTCTGCTCT  
TCTGTGCTCATGGCGACGGGCACGCAGAGAACCTGGTACAGTGGGAAATGGAAGTCTGTAAGCTGCCAAG  
ACTGTCTCTGAATGGAGTCCGGTTAAGCGGATATCAGGGACATCCATAGCTTTCAAAAATATTGCTTCC  
AAAATTGCCAATGAGCTAAAGCTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA





<b>ORF Size:</b>	1286 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC026445</a> , <a href="#">AAH26445</a>
<b>RefSeq Size:</b>	1865 bp
<b>RefSeq ORF:</b>	1286 bp
<b>Locus ID:</b>	17169
<b>Cytogenetics:</b>	12 F1
<b>Gene Summary:</b>	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]