

## Product datasheet for **RC213632**

### MYMK (NM\_001080483) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MYMK (NM\_001080483) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** MYMK  
**Synonyms:** MYOMAKER; TMEM8C; TMEM226  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC213632 representing NM\_001080483  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGACGCTGGTGGCCAAGCTGCTCCTGCCACCCTCAGCAGCCTGGCCTTCTCCCACTGTCAGCA  
TCGCGGCCAAGAGGCGTTCCACATGGAGGCCATGGTCTACCTCTTCACCCTGTTCTTCGTGGCGCTCCA  
CCATGCCTGCAATGGACCCGGCTTGTCTGTGCTGTGCTTCATGCGTCACGACATCCTGGAGTATTTCA  
GTCTACGGGACAGCCCTGAGCATGTGGTCTCGCTGATGGCACTGGCCGACTTCGACGAACCAAGAGGT  
CAACATTTGTGATGTTCCGGCTCCTGACCATTGCTGTGCGGATCTACCATGACCGATGGGGCTACGGGT  
GTACTCGGGCCCATCGGCACAGCCATCCTCATCATCGCGGCAAAGTGGCTACAGAAGATGAAGGAGAAG  
AAGGGCCTGTACCCAGACAAGAGCGTCTACACCAGCAGATAGGCCCGGCCCTGCTTCGGGGCGCTGG  
CCCTGATGCTACGCTTCTTTGAGGACTGGGACTACACTTATGTCCACAGCTTCTACCACTGTGCCCT  
GGCTATGTCCTTTGTTCTGCTGCTGCCAAGGTCAACAAGAAGGCTGGATCCCCGGGGACCCCGGCCAAG  
CTGGACTGCTCCACCCTGTGCTGTGCTTGTGTC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC213632 representing NM\_001080483  
Red=Cloning site Green=Tags(s)

MGTLVAKLLLPTLSSLAFLPTVSIAAKRRFHMEAMVYLFTLFFVALHHACNGPGLSVLCFMRHDILEYFS  
 VYGTALSMWVSLMALADFDEPKRSTFVMFGVLTIAVRIYHDRWGYGVYS GPIGTAILIIAAKWLQKMKEK  
 KGLYPDKSVYTTQIGPGLCFGALALMLRFFEFEDWDYTYVHSFYHCALAMSFVLLLPKVNNKAGSPGTPAK  
 LDCSTLCCACV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8005\\_e08.zip](https://cdn.origene.com/chromatograms/mk8005_e08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001080483

**ORF Size:** 663 bp

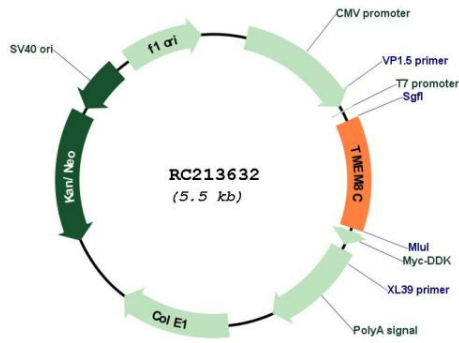
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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="#">NM_001080483.3</a>
<b>RefSeq Size:</b>	666 bp
<b>RefSeq ORF:</b>	666 bp
<b>Locus ID:</b>	389827
<b>UniProt ID:</b>	<a href="#">A6NI61</a>
<b>Cytogenetics:</b>	9q34.2
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	24.5 kDa
<b>Gene Summary:</b>	<p>Myoblast-specific protein that mediates myoblast fusion, an essential step for the formation of multi-nucleated muscle fibers (PubMed:28681861). Actively participates in the membrane fusion reaction by mediating the mixing of cell membrane lipids (hemifusion) upstream of MYMX. Acts independently of MYMX (By similarity). Involved in skeletal muscle regeneration in response to injury by mediating the fusion of satellite cells, a population of muscle stem cells, with injured myofibers (By similarity). Also involved in skeletal muscle hypertrophy, probably by mediating the fusion of satellite cells with myofibers (By similarity). [UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RC213632