

Product datasheet for SC315694

MYMK (NM_001080483) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYMK (NM_001080483) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYMK
Synonyms:	MYOMAKER; TMEM8C; TMEM226
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315694 representing NM_001080483. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
 ATGGGGACGCTGGTGGCCAAGCTGCTCCTGCCACCCTCAGCAGCCTGGCCTTCCTCCCACTGTCAGC
 ATCGCGGCCAAGAGGCGGTTCCACATGGAGGCCATGGTCTACCTCTTCACCCTGTTCTTCGTGGCGCTC
 CACCATGCCTGCAATGGACCCGGCTTGTCTGTGCTGTGCTTCATGCGTCACGACATCCTGGAGTATTTT
 AGTGTCTACGGGACAGCCCTGAGCATGTGGGTCTCGTGATGGCACTGGCCGACTTCGACGAACCCAAG
 AGGTCAACATTTGTGATGTTTCGGCGTCTGACCATTGCTGTGCGGATCTACCATGACCGATGGGGCTAC
 GGGGTGTACTCGGGCCCCATCGGCACAGCCATCCTCATCATCGCGCAAAGTGGCTACAGAAGATGAAG
 GAGAAGAAGGGCCTGTACCCAGACAAGAGCGTCTACACCCAGCAGATAGGCCCGGCCTCTGCTTCGGG
 GCGCTGGCCCTGATGCTACGCTTCTTTGAGGACTGGGACTACACTTATGTCCACAGCTTCTACCAC
 TGTGCCCTGGCTATGTCCTTTGTTCTGCTGCTGCCAAGGTCAACAAGAAGGCTGGATCCCCGGGGACC
 CCGGCCAAGCTGGACTGCTCCACCCTGTGCTGTGCTTGTGTCGA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001080483
Insert Size:	666 bp


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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 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: [NM_001080483.2](#)

RefSeq Size: 818 bp

RefSeq ORF: 666 bp

Locus ID: 389827

UniProt ID: [A6NI61](#)

Cytogenetics: 9q34.2

Protein Families: Transmembrane

MW: 24.7 kDa

Gene Summary:

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]