

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**

ATGGGGACGCTGGTGGCCAAGCTGCTCCTGCCACCCTCAGCAGCCTGGCCTTCCTCCCCACTGTCAGCA
 TCGCGGCCAAGAGGCGGTCCACATGGAGGCCATGGTCTACCTCTTCACCCTGTTCTTCGTGGCGCTCCA
 CCATGCCTGCAATGGACCCGGCTTGTCTGTGCTGTGCTTCATGCGTCACGACATCCTGGAGTATTTCACT
 GTCTACGGGACAGCCCTGAGCATGTGGTCTCGCTGATGGCACTGGCCGACTTCGACGAACCAAGAGGT
 CAACATTTGTGATGTTTCGGCGTCTGACCATTTGCTGTGCGGATCTACCATGACCGATGGGGCTACGGGT
 GTACTCGGGCCCCATCGGCACAGCCATCCTCATCATCGCGGCAAAGTGGCTACAGAAGATGAAGGAGAAG
 AAGGGCCTGTACCCAGACAAGAGCGTCTACCCAGCAGATAGGCCCCGGCCTCTGCTTCGGGGCGCTGG
 CCCTGATGCTACGCTTCTTTTGGAGTGGGACTACACTTATGTCCACAGCTTCTACCACTGTGCCCT
 GGCTATGTCCTTTGTTCTGCTGCTGCCAAGGTCAACAAGAAGGCTGGATCCCCGGGGACCCGGCCAAG
 CTGGACTGCTCCACCCTGTGCTGTGCTTGTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC213632 representing NM_001080483
 Red=Cloning site Green=Tags(s)

MGTLVAKLLPTLSSLAFLPTVSI AAKRRFHMEAMVYLFTLFFVALHHACNGPGLSVLCFMRHDILEYFS
 VYGTALSMWVSLMALADFDEPKRSTFVMFGVLTIAVRIYHWRWGYGVYS GPIGTAILIIAAKWLQKMKEK
 KGLYPDKSVYTTQIGPGLCFGALALMLRFFFDWDYTYVHSFYHICALAMSFVLLL PKVKNKAGSPGTPAK
 LDCSTLCCACV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8005_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001080483

ORF Size: 663 bp

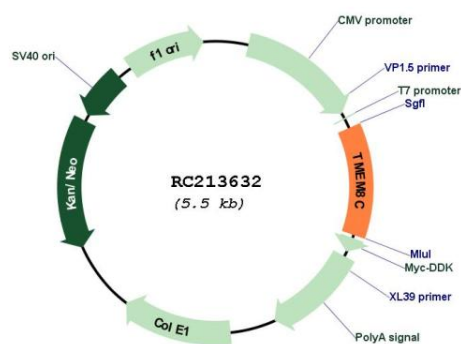
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001080483.3
RefSeq Size:	666 bp
RefSeq ORF:	666 bp
Locus ID:	389827
UniProt ID:	A6NI61
Cytogenetics:	9q34.2
Protein Families:	Transmembrane
MW:	24.5 kDa
Gene Summary:	<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).</p> <p>[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RC213632