

Product datasheet for RC223228

TMEPAI (PMEPA1) (NM_020182) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEPAI (PMEPA1) (NM_020182) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEPAI
Synonyms:	STAG1; TMEPAI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223228 representing NM_020182 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCACCGCTTGATGGGGTCAACAGCACCGCCGCCGCCGCCGGGCAGCCCAATGTCTCCTGCACGT
GCAACTGCAAACGCTCTTTGTTCCAGAGCATGGAGATCACGGAGCTGGAGTTTGTTCAGATCATCAT
CGTGGTGGTATGATGGTATGGTGGTGGTATCACGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGG
TCCTTCATCAGCCGGCACAGCCAGGGCGGAGGAGAGAAGATGCCCTGTCCTCAGAAGGATGCCTGTGGC
CCTCGGAGAGCACAGTGTGAGGCAACGGAATCCCAGAGCCGAGGTCTACGCCCCGCTCGGCCACCGA
CCGCTGGCCGTGCCGCCCTTCGCCAGCGGGAGCGCTTCCACCGCTCCAGCCACCTATCCGTACCTG
CAGCACGAGATCGACCTGCCACCCACCATCTCGCTGTGACAGGGGAGGAGCCCCACCCTACCAGGGCC
CCTGCACCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGAAGTGAACCGGGAGTCGGTGCAGCACCCCC
AAACAGAACCATCTTCGACAGTGACCTGATGGATAGTGCCAGGCTGGGCGGCCCTGCCCCCCAGCAGT
AACTCGGGCATCAGCGCCACGTGCTACGGCAGCGGGCGGCATGGAGGGGCCCGCCACCTACAGCG
AGGTATCGGCCACTACCCGGGGTCTCTTCCAGCACCAGCAGAGCAGTGGGCCGCCCTCTTGTGGA
GGGACCCGGCTCCACCACACACATCGCGCCCTAGAGAGCGCAGCCATCTGGAGCAAAGAGAAGGAT
AAACAGAAAGGACACCCTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC223228 representing NM_020182
Red=Cloning site Green=Tags(s)

MHRLMGVNSTAAAAAGQPNVSCNCNKRS LFQSMEITELEFVQIIIVVMMVMVVITCLLSHYKLSAR
 SFISRHSQGRREDAL SSEGLWPSESTVSGNGIPEPQVYAPRPTDRLAVPPFAQRERFHRFQPTYPL
 QHEIDLPTTISLSDGEEPPPYQGPCTLQLRDPEQQLNRESVRAPPNRTIFDSDLMD SARLGGPCPPSS
 NSGISATCYGSGGRMEGPPPTYSEVIGHYPGSSSFQHQQSSGPPSLLEGTRLHHTHIAPLESAAIWSKEKD
 KQKGHPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8010_b08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020182

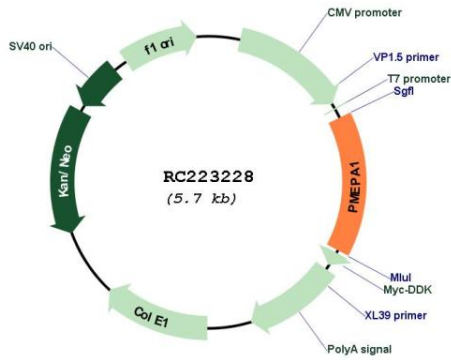
ORF Size: 861 bp

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.

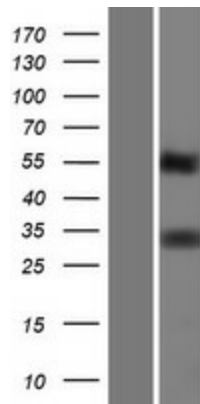
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
RefSeq:	NM_020182.5
RefSeq Size:	4930 bp
RefSeq ORF:	864 bp
Locus ID:	56937
UniProt ID:	Q969W9
Cytogenetics:	20q13.31
Protein Families:	Druggable Genome, Transmembrane
MW:	31.4 kDa
Gene Summary:	This gene encodes a transmembrane protein that contains a Smad interacting motif (SIM). Expression of this gene is induced by androgens and transforming growth factor beta, and the encoded protein suppresses the androgen receptor and transforming growth factor beta signaling pathways through interactions with Smad proteins. Overexpression of this gene may play a role in multiple types of cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC223228



Western blot validation of overexpression lysate (Cat# [LY412605]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223228 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).