

Product datasheet for **RC233576**

TMEPAI (PMEPA1) (NM_001255976) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEPAI (PMEPA1) (NM_001255976) 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:	>RC233576 representing NM_001255976 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGGATCGCC**

ATGCCTGCAATTCAGCACATGGAGCGGAGCTGGAGTTTGTTCAGATCATCATCATCGTGGTGGTATGATGATGGTGGTGGTGGTATCACGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCTTCATCAGCCG
GCACAGCCAGGGCGGAGGAGAGAAGATGCCCTGTCTCAGAAGGATGCCTGTGGCCCTCGGAGAGCACA
GTGTCAGGCAACGAATCCAGAGCCGCGAGTCTACGCCCCGCCCTGGCCACCGACCGCCTGGCCGTGC
CGCCCTTCGCCAGCGGGAGCGCTTCCACCGCTTCCAGCCACCTATCCGTACCTGCAGCAGGAGATCGA
CCTGCCACCCACCATCTCGCTGTGACAGCGGGAGGAGCCCCACCTACCAGGGCCCTGCACCCCTCCAG
CTTCGGGACCCCGAGCAGCAGCTGGAACCTGAACCGGGAGTCGGTGCAGCGCACCCCAACAGAACCATCT
TCGACAGTGACCTGATGGATAGTGCCAGGCTGGGCGGCCCTGCCCCCGAGCAGTAACCGGGCATCAG
CGCCACGTGCTACGGCAGCGGGCGCATGGAGGGGCCCGCCACCTACAGCGAGGTCATCGGCCAC
TACCCGGGGTCTCTTCCAGCACCAGCAGAGCAGTGGGCGCCCTCCTTGTGAGGGGACCCGGCTCC
ACCACACACATCGGCCCTAGAGAGCGCAGCCATCTGGAGCAAGAGAAGGATAAACAGAAAGGACA
CCCTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC233576 representing NM_001255976
Red=Cloning site Green=Tags(s)

MPAIPAHAELFVQIIIVVMMVMVVITCLLSHYKLSARSFISRHSQGRREDALSSEGCLWPSEST
VSGNGIPEPQVYAPRPTDRLAVPPFAQRERFHRFOPTYPLQHEIDLPTISLSDGEEPPPYQGPTLQ
LRDPEQQLNRESVRAPPNRTIFDSLMD SARLGGPCPPSSNSGISATCYGSGGRMEGPPPTYSEVIGH
YPGSSFQHQSSGPPSLLEGTRLHHTHIAPLESAAIWSKEKDKQKGHPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001255976

ORF Size: 777 bp

OTI Disclaimer: 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:

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_001255976.2](#)

RefSeq Size: 4663 bp

RefSeq ORF: 780 bp

Locus ID: 56937

UniProt ID: [Q969W9](#)

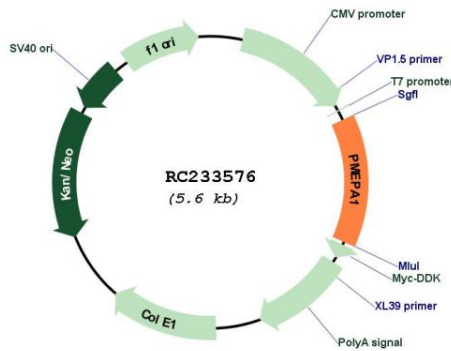
Cytogenetics: 20q13.31

Protein Families: Druggable Genome, Transmembrane

MW: 29 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 RC233576