

Product datasheet for **RG220162**

TMEPAI (PMEPA1) (NM_199170) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMEPAI (PMEPA1) (NM_199170) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PMEPA1
Synonyms: STAG1; TMEPAI
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220162 representing NM_199170
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGTGATGGTGGTGGTGCATCAGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCCTTCATCA
GCCGGCACAGCCAGGGGCGGAGGAGAGAAGATGCCCTGTCCTCAGAAGGATGCCTGTGGCCCTCGGAGAG
CACAGTGTGAGCAACGGAATCCCAGAGCCGAGGTCTACGCCCCGCTCGGCCACCGACCGCCTGGCC
GTGCCGCCCTTCGCCAGCGGGAGCGCTTCCACCCTCCAGCCACCTATCCGTACCTGCAGCAGGAGA
TCGACCTGCCACCCACCATCTCGCTGTGACGCGGGAGGAGCCCCACCCTACCAGGGCCCTGCACCCT
CCAGTTCGGGACCCCGAGCAGCAGCTGGAAGTGAACCGGGAGTCCGGTGCAGCAGCCCCAACAGAAC
ATCTTCGACAGTGACCTGATGGATAGTGCAGGCTGGGCGGCCCTGCCCCCCAGCAGTAACTCGGGCA
TCAGCGCCACGTGCTACGGCAGCGGGCGCATGGAGGGCCGCGCCACCTACAGCGAGGTCATCGG
CCACTACCCGGGGTCTCCTTCCAGCACCAGCAGCAGTGGGCCGCCCTCCTTGCTGGAGGGGACCCGG
CTCCACCACACACATCGCGCCCTAGAGAGCGCAGCCATCTGGAGCAAAGAGAAGGATAAACAGAAAG
GACACCCTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG220162 representing NM_199170
 Red=Cloning site Green=Tags(s)

MMVMVVITCLLSHYKLSARSFISRHSQRRREDALSSEGCLWPSESTVSGNGIPEPQVYAPRPTDRLA
 VPPFAQRERFHRFQPTYPLQHEIDLPTISLSDGEEPPPYQGPGCTLQLRDPEQQLELNRESVRAPPNRT
 IFDSDLMSARLGGPCPPSSNSGISATCYGSGGRMEGPPPTYSEVIGHYPGSSFQHQSSGPPSLLEGTR
 LHHTHIAPLESAAIWSKEKDKQKGHPL

TRTRPLE - GFP Tag - V

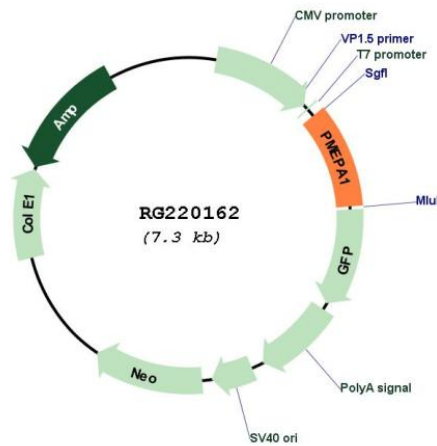
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_199170

ORF Size: 711 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:	<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_199170.3
RefSeq Size:	4531 bp
RefSeq ORF:	714 bp
Locus ID:	56937
UniProt ID:	Q969W9
Cytogenetics:	20q13.31
Protein Families:	Druggable Genome, Transmembrane
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]