

## Product datasheet for **SC108493**

### PMF1 (NM\_007221) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PMF1 (NM\_007221) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PMF1  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**Cell Selection:** None  
**Fully Sequenced ORF:**

>OriGene ORF sequence for NM\_007221 edited  
 ATGGTGGACACTTTTCTTCAGAAGCTGGTCGCCGCCGGCAGCTACCAGAGATTCAGTGC  
 TGCTATAAGTGCTTCTACCAGTTGCAGCCTGCGATGACACAGCGAATCTATGACAAGTTT  
 ATAGCTCAGTTGCAGACATCTATCCGGGAGGAAATCTCTGACATCAAAGAGGAGGGGAAC  
 CTAGAAGCTGTCTGAATGCCTTGGATAAAAATTGTGGAAGAAGGCAAAGTCCGCAAAGAG  
 CCAGCCTGGCGCCCGCAGCGGGATCCCAGAGAAGGATCTGCACAGTGTATAGCACCTAC  
 TTCCTGCAGCAACGGGACACCCTGCCGCGCCATGTGCAGAAACAGGAGGCCGAGAACCAG  
 CAGCTGGCAGATGCCGTCTGGCAGGGCGGAGGCAGGTGGAGGAGCTGCAGCTACAGGTC  
 CAGGCCAGCAGCAGGCTGGCAGGCTCTACACAGAGAACAGAGGGAGCTGGTTGCTGTG  
 CTGAGGGAGCCTGAGTGA

#### 5' Read Nucleotide Sequence:

>OriGene 5' read for NM\_007221 unedited  
 GGGGTCAGTTTTTGTATACGACTCCTATAGGCGGCCGCGAAATTCGCACGAGGGGGCCGA  
 AGCAAGTAGCCCAATCTAGGCAGCGGCTGTGAGGAAAAAGCATGAGGGGTCTGTTCCG  
 GAATCTGTGCCACCCGGCACTACCATTTTCGAGGGTGAAGCTCCTCGACACCATGGTGGAC  
 ACTTTTTCTCAGAAGCTGGTCGCCGCCGGCAGCTACCAGAGATTCAGTACTGCTATAAG  
 TGCTTCTACCAGTTGCAGCCTGCGATGACACAGCGAATCTATGACAAGTTTATAGCTCAG  
 TTGCAGACATCTATCCGGGAGGAAATCTCTGACATCAAAGAGGAGGGGAACCTAGAAGCT  
 GTCTTGAATGCCTTGGATAAAAATTGTGGAAGAAGGCAAAGTCCGCAAAGAGCCAGCCTGG  
 CGCCCCAGCGGGATCCCAGAGAAGGATCTGCACAGTGTATAGCACCTACTTCTCGAG  
 CAACGGGACACCCTGCCGCGCCATGTGCAGAAACAGGAGGCCGAGAACCAGCAGCTGGCA  
 GATGCCGTCTGGCAGGGCGGAGGCAGGTGGAGGAGCTGCAGCTACAGGTCCAGGCCAG  
 CAGCAGGCTGGCAGGCTCTACACAGAGAACAGAGGGAGCTGGTTGCTGTGCTGAGGGAG  
 CCTGAGTGAGGAGACCGCCAGCCCCAGAAGCAGAGGGCAGTCAAGGTCAAGAGCCTGTGG  
 TCCAGCATGCCTGGCCTGNGCGGCTACCTCTGAGAACGCTGAAATGGTGCCAGTCCA  
 TCAGCAGTGATGGAATTTGCTGGAGGACTANGCCAGAGCAAGCCTCACTGCCACTGTGCC  
 TTTGNGGCACCTTNGGNGNTGNACATACCCNCTTTAGATTCCCTCTGTTCTTCTACCT  
 GGATAATNCTGGGCATGTNCTCTCTCTAGGTCAGTTCAGCTCT



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_007221 unedited TTTGGACGCGCCGCAATCTAGAGTCGAGNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACAGGGGAGGGAAGGAAGTTTATTTACGGATGGG GAAAAAATGTTAAAGGCCCTGGGCTGGCCAACAAGGGGGCAATCAGGGGAAATTGAA AACAAATTTTCAACCCAGGCCAGGGAAAAGGGCTGGGAACCAACAGGAGGGGGCGG AGGGGCAAACTTACCTGAACCTAAAAAAAAAAAAAAAAACATGGCCAAAATTTATCCAGGTAA AAAAACAGAGGAATTTAAAGGGGGGTTGTCCAACCCCAAGGGTGCCCAAAGGCACA GGGGCAGGGAGGCTTGTCTTGGCCTAATCTCCAACAAATTCATCACTGGTGATGGACT GGGCACCATTTACGCCGTCTAAAGGTACCCCCCAAGGCCAGGCATGCTGGACCACAG GCTTTTGACCTTGACTGCCCTTTGCTTTTGGGGCTGGGGGCTCCTCACTTAGGCTCCCT TAGCACAGAAACCACTCCCTTTGTTTTGTGTAAAACCTGCCAGGCCTGCTGTGGGC CTGGACCTGTANCTGAACTCCTCCACCTGCCTCCGCCCTGCCAAGACGGTATTTGCCAA CTGCTGGTTCTCGCCCTCTGTTTCTGCACATGGCGCCCAAGGGTGCCCGTTGCTGCAG AAAATAGGGTGTATAACTGTGCAAATCCTTCTTGGGATCCCCTGGGGCGCCAGCT GGTTCTTGGGGACTTTGCCTTTCTTACAATTTTTTTCAAGGCATTACAACAGCTCTAA GTCTCCCTCCTTTTATGTCAAAAATCCTTCGCGAAGATGCCGCACCGGACTATAAATTG CATAAATCCTGGCACCCTGGCTTACTGGTAAAACCTTTAACACCCGGATCTTGGTACTG CCGGGAACACCTTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_007221
<b>Insert Size:</b>	1170 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	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.
<b>RefSeq:</b>	<a href="#">NM_007221.1</a> , <a href="#">NP_009152.1</a>
<b>RefSeq Size:</b>	1057 bp
<b>RefSeq ORF:</b>	498 bp
<b>Locus ID:</b>	11243
<b>UniProt ID:</b>	<a href="#">Q6P1K2</a>
<b>Cytogenetics:</b>	1q22
<b>Protein Families:</b>	Stem cell - Pluripotency

**Gene Summary:**

Part of the MIS12 complex which is required for normal chromosome alignment and segregation and kinetochore formation during mitosis. May act as a cotranscription partner of NFE2L2 involved in regulation of polyamine-induced transcription of SSAT.

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate exon but includes another in-frame exon in the 5' coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.