

Product datasheet for **SC122836**

PAM16 (NM_016069) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PAM16 (NM_016069) Human Untagged Clone
Tag: Tag Free
Symbol: PAM16
Synonyms: CGI-136; MAGMAS; SMDMDM; TIM16; TIMM16
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_016069 edited
 CGGGGCCAGGAAGTCGGAGTTTGAGCCCCGGAGGCAGAGCGGCTGCCATGGCCAAGTACC
 TGGCCCAGATCATTGTGATGGGCGTGCAGGTGGTGGGCAGGGCCTTGCACGGGCCTTGC
 GGCAGGAGTTTGAGCCAGCCGGCCGCGAGCTGATGCCCGAGGACGCGCTGGACACCGGT
 CTGCAGCCGCTTCCAACCTCTCCGGCCTCAGCCTCCAGGAGGCACAGCAGATTCTCAACG
 TGTCCAAGCTGAGCCCTGAGGAGGTCCAGAAGAACTATGAACACTTATTTAAGGTGAATG
 ATAAATCCGTGGGTGGCTCCTTCTACCTGCAGTCAAAGGTGGTCCGCGCAAAGGAGCGCC
 TGGATGAGGAACTCAAAATCCAGGCCAGGAGGACAGAGAAAAAGGGCAGATGCCCCATA
 CGTGACTGCTCGGCTCCCCCGCCACCCCGCCGCTCTAATTTATAGCTTGTAATAAA
 TTTCTTTTCTGCAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_016069 unedited
 GAAAGTCAAATTTTGTATACGACTCATATAGGCGCCGCGNAATTCGCACGAGGCGGGGC
 CAGGAAGTCGGAGTTTGAGCCCCGNGAGCAGAGCGGCTGCCATGGCCAAGTACCTGGCCC
 AGATCATTGTGATGGGCGTGCAGGTGGTGGGCAGGGCCTTGCACGGGCCTTGCAGCAGG
 AGTTTGCAGCCAGCCGGGCCGAGCTGATGCCCGAGGACGCGCTGGACACCGGTCTGCAG
 CCGCTTCCAACCTCTCCGGCCTCAGCCTCCAGGAGGCACAGCAGATTCTCAACGTGTCCA
 AGCTGAGCCCTGAGGAGGTCCAGAAGAACTATGAACACTTATTTAAGGTGAATGATAAAT
 CCGTGGGTGGCTCCTTCTACCTGCAGTCAAAGGTGGTCCGCGCAAAGGAGCGCCTGGATG
 AGGAACTCAAAATCCAGGCCAGGAGGACAGAGAAAAAGGGCAGATGCCCCATACGTGAC
 TGCTCGGCTCCCCCGCCACCCCGCCGCTCTAATTTATAGCTTGGTAATAAATTTCTT
 TTCTGCAAAAAAAAAAAAAAAAAAAGTCTGACTCTAGATTGCGGCGCGGTTCATAGCTGTT
 CCTGAACAGATCCCGGTGGCATCCCTGTGACCCCTCCCAGTGCCTCTCCTGGCCCTGG
 AAGTTGCCACTCCAGTCCCCACCAGCCTTGTCTAATAAAATTAAGTTGCATCATTTTGT
 CTGACTAGGTGTCCTTCTATAAATATGGGGTGGAGGGGGGGGTAAGGANCAANNNGGCN
 NTTTGGGAAGNACAACCTGTAGGGCCTGGGGGTCTATTGGAAACAAGCCTGGAGGCAGT
 GGCACAATCTTGCTCACTGCAATCTCCGCTCCTGGTTTCAGCAG



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Restriction Sites:	Please inquire
ACCN:	NM_016069
Insert Size:	510 bp
OTI Disclaimer:	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).
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:	<u>NM_016069.8</u> , <u>NP_057153.8</u>
RefSeq Size:	527 bp
RefSeq ORF:	378 bp
Locus ID:	51025
UniProt ID:	<u>Q9Y3D7</u>
Cytogenetics:	16p13.3
Gene Summary:	This gene encodes a mitochondrial protein involved in granulocyte-macrophage colony-stimulating factor (GM-CSF) signaling. This protein also plays a role in the import of nuclear-encoded mitochondrial proteins into the mitochondrial matrix and may be important in reactive oxygen species (ROS) homeostasis. Mutations in this gene cause Megarbane-Dagher-Melike type spondylometaphyseal dysplasia, an early lethal skeletal dysplasia characterized by short stature, developmental delay and other skeletal abnormalities. [provided by RefSeq, May 2017]