

Product datasheet for **SC324227**

PM20D1 (NM_152491) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PM20D1 (NM_152491) Human Untagged Clone
Tag:	Tag Free
Symbol:	PM20D1
Synonyms:	Cps1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_152491.3
 GTCAGAACTACCCGGTAGCCTGACAGCAGGAGCTCGAGAGAAGCATGGCTCAGCGGTGC
 GTTTGCGTGCTGGCCCTGGTGGCTATGCTGCTCCTAGTTTTCCCTACCGTCTCCAGATCG
 ATGGGCCCGAGGAGCGGGGAGCATCAAAGGGCGTCGCGAATCCCTTCTCAGTTCAGCAAA
 GAGGAACGCGTCGCGATGAAAGAGGGCGTGAAAGGTGCCATCCAGATCCAACAGTGACT
 TTTAGCTCTGAGAAGTCCAATACTACAGCCCTGGCTGAGTTCGGAAAAATACATTCATAAA
 GTCTTTCTCAGTGGTCCAGCACCAGCTTATCCAGCATGAAGTCGTGGAAGAGTATAGC
 CACCTGTTCACTATCCAAGGCTCGGACCCAGCTTGCAGCCCTACCTGCTGATGGCTCAC
 TTTGATGTGGTGCCTGCCCTGAAGAAGGCTGGGAGGTGCCCCATTCTCTGGGTGGAG
 CGTGATGGCGTCATCTATGGTTGGGGCACACTGGACGACAAGAACTCTGTGATGGCATT
 CTGCAGGCCTGGAGCTCCTGCTGATCAGGAAGTACATCCCCGAAGATCTTTCTTCTT
 TCTCTGGCCATGATGAGGAGTCATCAGGGACAGGGGCTCAGAGGATCTCAGCCCTGCTA
 CAGTCAAGGGGCGTCCAGCTAGCCTTCTTGTGGACGAGGGGGCTTCATCTTGATGAT
 TTCATTCTAACTCAAGAAGCCCATCGCCTTGATTGCAGTCTCAGAGAAGGGTCCATG
 AACCTCATGCTGCAAGTAAACATGACTTCAGGCCACTCTCAGCTCCTCAAAGGAGACA
 AGCATTGGCATCCTTGCAGCTGCTGTACGCCGATTGGAGCAGACACCAATGCCTATCATA
 TTTGGAAGCGGGACAGTGGTGAAGTATTGCAGCAACTGGCAATGAGTTTCCCTTCCCT
 GTCAATATAATCCTGAGCAACCCATGGCTATTTGAACCACTTATAAGCAGGTTTATGGAG
 AGAAATCCCTTAAACCAATGCAATAATCAGGACCACCACGGCACTCACCATATTCAAAGCA
 GGGGTCAAGTTCAATGTCATCCCCCAGTGGCCAGGCCACAGTCAACTCCGGATTAC
 CCTGGACAGACAGTCCAAGAGGTCTAGAACTCACGAAGAACATTGTGGCTGATAACAGA
 GTCCAGTTCATGTGTTGAGTGCCTTTGACCCCTCCCGTCAGCCCTCTGATGACAAG
 GCCTTGGGCTACCAGTCTCCGCCAGCCGTACAGTCCGTCTTCCCGGAAGTCAATATT
 ACTGCCCCAGTTACTTCTATTGGCAACACAGACAGCCGATTCTTTACAAACCTCACCCT
 GGCATCTACAGTTCTACCCCATCTACATACAGCCTGAAGACTTCAAACGCATCCATGGA
 GTCAACGAGAAAACTCAGTCCAAGCCTATGAGACCCAAGTAAAATTCATCTTTGAGTTG
 ATTCAGAAATGCTGACACAGACCAGGAGCCAGTTTCTCACCTGCACAACTGTGAGGTCAA
 GGGGCTGCTGGTTAGGCATGCCCGACCCGGGACAGGACTAACCCAAGGGGAAAGCT
 AGTGTGATGAACTTTTATCAAAACCACATTGTAACAACTTGGCCATCTGCTTGTCTC
 ACTCTTAACTCTCCCAAGAACAAGCCGGGTAAAGTAAAGTACAGCAGAAATCTGGCTT
 CTCCTTCTCCCGACATCTGCATCCCTTGATCCACTGGCATTGCTGCCCTCTTGTCCC
 TTATCTGTCTTATGCTGGTTATTTCACTGCTTACCTTCCAGGCTTGACTTAACAATGT
 AGATTTGAGAAATCTCAACCAGTTGTTACCTGATAGGAGTCTTTAATTTAGGGCACTCTT
 GCTGGGATGCTTTCTCCAGAGCTTATATATTTCTTCTTACTAGAACTTTCTTCCCTTTT
 TATTCCCTCTCTTCTTGGACTCATGAGCTGTCTTCTCATCTCTCTCTCTCTCTGAT
 CTCTCCCTTACTCTTCAATTTATTCTACTTCTGGACCTGGACTTACCCAACTGTGATA
 CTACCATAATTGTCACCATAATCAGTCAAATAAAGTGATCTGTCTCAAAAAAAAAAAAAA
 AA
 AA

Restriction Sites: ECoRI-NOT

ACCN: NM_152491

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_152491.3</u> , <u>NP_689704.3</u>
RefSeq Size:	2265 bp
RefSeq ORF:	1509 bp
Locus ID:	148811
UniProt ID:	<u>Q6GTS8</u>
Cytogenetics:	1q32.1
Protein Families:	Transmembrane
Gene Summary:	<p>Bidirectional N-fatty-acyl amino acid synthase/hydrolase that regulates the production of N-fatty-acyl amino acids. These metabolites are endogenous chemical uncouplers of mitochondrial respiration. In an UCP1-independent manner, maybe through interaction with mitochondrial transporters, they promote proton leakage into the mitochondrial matrix. Thereby, this secreted protein may indirectly regulate the bodily dissipation of chemical energy as heat through thermogenic respiration.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the supported protein.</p>