

Product datasheet for **MC217050**

Pm20d1 (NM_178079) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pm20d1 (NM_178079) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pm20d1
Synonyms:	4732466D17Rik; AI098026
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217050 representing NM_178079
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGAGCTACTTGCTAGCTTCCCCGCCTGGGCAGCTGTGCTCCTTCTTTTTTCGCTACGGTCTCCG
GATCCACTGGCCCTAGAAGCAGGAAAAATCGGGGGCGTCCCGGATCCCTTCCCAGTTCAGCGAGGAGGA
CGGTGTCGCTATAAAAGAGGCGCTGAAAGGTGCCATCCAGATTCCACAGTGTCTTTCAGCCACGAGGAA
TCCAACACCACAGCCCTTGCTGAGTTTGGAGAATATATCCGCAAAGCCTTCCCTACAGTGTTCACAGCA
GCCTTGTCCAACATGAAGTCGTGGCAAAGTATAGCCACCTGTTACCCATCCAAGGCTCAGACCCAGTTT
GCAGCCCTACATGCTGATGGCTCACATTGATGTGGTTCCTGCCCCGGAAGAAGGATGGGAGGTGCCCGG
TTCTCAGGCTGGAACGCAATGGCTTCATCTATGGCCGGGTGCGCTGGACAACAAAACTCTGTGATGG
CGATCCTGCATGCTTTGGAGCTCCTGTTGATCAGAACTACAGCCCCAAAAGATCTTCTTCATTGCTTT
GGCCCATGATGAGGAGGTGCCGGGAAAAGGGGCTCAGAAGATCTCAGCACTTTACAGGCAAGGGGT
GTCCAGCTAGCCTTCTTGTGGATGAAGGGAGCTTTATCTTGAAGGCTTCATCCAAACCTCGAGAAGC
CAGTTGCCATGATTTAGTCACTGAGAAGGGTGCCTTGACCTCATGCTGCAAGTAAACATGACTCCAGG
CCTCTTTCAGCTCCCCAAAGGAGACAAGCATTGGCATTCTTCTGCCGCTGTGAGCCGACTGGAGCAG
ACACCAATGCCGAATATGTTTGGAGGAGGGCCATTGAAGAAGACAATGAAGCTACTGGCAAATGAGTTTT
CCTTCCCTATCAATATAGTCTTGAGAACTGTGGCTATTTTCATCCCATTTGTGAGCAGGATAATGGAGAG
GAACCCATAACAAATGCGCTGGTCCGAACTACCACAGCCCTCACCATGTTCAATGCAGGAATCAAGGTG
AATGTCATCCCTCATTGGCTCAGGCTACAATCAACTGCCGAATTCACCTTCGCAGACAGTACATGAGG
TCCTAGAACTTGTCAAGAACACCGTGGCTGATGACAGAGTCCAGCTGCATGTGTTGAGATCCTTTGAACC
CCTGCCCATCAGCCCTCTGATGACCAGGCCATGGGCTACCAGCTGCTTCAAGAGACCATACGATCTGTC
TTCCCGAAGTCGACATCGTCGTCGCCGGTATTTGTATTGCCAATACGGACACCCGACACTATGCCAACA
TCACCAATGGCATGTACCGGTTCAACCCCTTCCCTGAACCCTCAGGACTTCAGTGGTGTCCATGGAAT
CAATGAGAAAGTTTCCGTTCAGAACTACCAGAACCAGGTGAAGTTCATCTTTGAGTTCATCCAAAATGCC
GACTTACAAAGAGCCAGTTTCTCATCTGCATGAACTATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_178079

Insert Size: 1512 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:

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_178079.3](#), [NP_835180.2](#)

RefSeq Size: 3540 bp

RefSeq ORF: 1512 bp

Locus ID: 212933

UniProt ID: [Q8C165](#)

Cytogenetics: 1 E4

Gene Summary: 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]