

Product datasheet for MC212712

Mcat (NM_001030014) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mcat (NM_001030014) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mcat
Synonyms: AI225907; BC025519
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC212712 representing NM_001030014
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCGCTCGGGTAGCTCGGGCCGGTGGGCCTGGCGCTCTGGGGCCGCGCCGCGCTCGAGCCTCC
 GGGAGCCGCCCGGACCCGTGGACGTGGCGGAGCTGCTGCGGACTCCAGCGTGGCCGAGGAGGGAGC
 CCAGGAGCGGTGGCGCGCGGGCCACCTTACAGTGTCCGTGTTGCTTTCCCGCCAGGGCTGC
 CAGGCGGTCCGCATGGGACGCGCTGCTCCACCTCCCGCGTGTGCGGCAGCTCTACGAGCCGCGCACC
 GGGTACTGGGCTACGATCTGCTGGAGCTGTGCCTGCGGGGGCCCCAGGAGGACCTGGACCGCACAGTGCA
 TTGCCAGCCCGCGTCTTTGTGGCTTCACTGGCCGCGTGGAGAAGCTACATCATCTGCAGCCGGCGGT
 ATCGACAAGTGTGTTGCTGCGGCTGGCTTCAAGTGTGGGAGAGTTTGTGCCTTGGTATTTGCTGGAGCCA
 TGGATTTTCTGAAGTCTGTATGCGGTGAAGGCCGTGCCGAAGCTATGCAAGAAGCATCCGAAGCCGT
 TCCCAGTGGGATGCTGTCTGTCTTGGCCAGCGTCAGTCCAACCTCTCCTTTGCCTGCTTGAAGCCAG
 GAGCACTGCAAGTCTTTGGGTATAGAGAACCCAGTGTGCCAGGTGTCCAACCTCTTCTCTGACTGCA
 GGGTCATCTCAGGACACCTTGGGCCCTTCAAGTTCTCCGAGGAATTCTGCTAAGTATCACTTCCGGCG
 CACCAAGATGCTGCCTGTAAAGTGGAGGCTTCCATACCTGCCTCATGGAGCCAGCCGTGGATCCCCGATG
 AAAGTTCTAGGCTCGATCAACATCAAGAAGCCACTGGTTGCCGTCCATTCCAATGTCAGTGGCAGAAAGT
 ACACACATCCACAACACATCCGAAAGCTGCTAGGGCAGCAGGTGGTGTGCCAGTGAATGGGAACAGAC
 AATGCACTCTATCTACGAGCGGAAGAAAGGCATGGAGTCCCCAGCACCTACGAGGTGGGCCCGGGCAG
 CAGCTGGGAAGCATCCTCAAGTGTGCAACAGGCAGGCGTGAAGTCTACAGCCATGTGGATGTGATGC
 AGAACATCATGGATCCTGACCCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001030014
Insert Size:	1146 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_001030014.2</u> , <u>NP_001025185.1</u>
RefSeq Size:	1893 bp
RefSeq ORF:	1146 bp
Locus ID:	223722
UniProt ID:	<u>Q8R3F5</u>
Cytogenetics:	15 E1
Gene Summary:	Catalyzes the transfer of a malonyl moiety from malonyl-CoA to the free thiol group of the phosphopantetheine arm of the mitochondrial ACP protein (NDUFAB1). This suggests the existence of the biosynthesis of fatty acids in mitochondria (By similarity).[UniProtKB/Swiss-Prot Function]