

Product datasheet for **MR223251**

Mboat4 (NM_001126314) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mboat4 (NM_001126314) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mboat4
Synonyms:	Gm171; GOAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR223251 representing NM_001126314
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATTGGCTCCAGCTCTTTTTCTGCATCCTTTATCATTTTATCAAGGGGCTGCATCCCTTTGCGC
 TTCTGTTTAATTATCTCTGCATCTTGGACACCTTTCCACCCGGGCCAGGTACCTTTTCTCTGGCTGG
 AGGAGGTGTCCTGGCTTTTGTGCCATGGTCCCTACTCTCTGCTCATCTTCATCCCTGCGCTCTGCGCT
 GTGGCTCTGGTCTCCTTCTCAGTCCACAGGAAGTCCATAGGCTGACCTTCTTCTTTCAGATGGGCTGGC
 AGACCCTGTGCCATCTGGGTCTTCACTACACCGAATACTACCTGGGTGAGCCTCCACCCGTGAGGTTCTA
 CATCACTCTTTCTCCCTCATGCTTTGACGCAGAGAGTCACATCCCTCTCACTGGACATTTGTGAAGGG
 AAGGTGGAGGCCCGAGGCGGGCATCAGGAGCAAGAGTCTTTTCTGAGCACCTGTGGGATGCTCTAC
 CTCATTTCACTACTTGTCTTTTTCCCTGCTCTCCTGGGAGGCTCCCTGTGTTCTTCCGAGGTTTCA
 GGCTTGCCTTCAAAGATCAAGCTCTTTGTATCCGAGTATCTTTTTCGGGCTCTGACCTGGAGGGTCTG
 CAGATTCTCGGGCTGGAGTGCCTCAAGGTGGCGCTGAGGAGCGCGGTGAGTGTGGAGCTGGACTGGATG
 ACTGCCAGCGGCTGGAGTGCATCTACCTCATGTGGTCCACAGCCTGGCTCTTTAACTCACCTATTACTC
 CCATTGGATCCTGGACGACTCTCTCTCCACGCGGGCGGCTTTGGCGCTGAGGCTGGCCAGGGGCTGGA
 GAGGAGGGATACGTCCCCGACGTGGACATTTGGACCCTGGAACTACCCACAGGATCTCCCTGTTCCGCA
 GGCAGTGAACCGAAGCACAGCTCTGTGGCTCAGGAGGCTCGTCTTCCGGAAGAGCCGGCGCTGGCCCT
 GCTGCAGACATTTGCCTTCTCTGCTGGTGGCACGGGCTCCACCCAGGTGAGTGTTCGGCTTCTGTGC
 TGGTCTGTAATGGTGAAGCCGATTATCTGATTCACACTTTTCCCAACGTATGTATCAGATCCTGGCCCC
 TGCGGCTGCTTTATAGAGCCCTCACTTGGGCTCATACCAACTCATCATTGCCTACATCATGCTGGCGGT
 GGAGGGCCGGAGCCTTCTCTCTCTGCAACTGTGCTGTTCTTACAACAGTCTTCCCTGTGATGTAC
 GGTCTTTTCTTTTTCTGTTAGCGGAGAGAAAAGACAAACGTAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223251 representing NM_001126314
 Red=Cloning site Green=Tags(s)

MDWLQFLHPLSFYQGAAPFALLFNYLCILDTFSTRARYLFLLAGGGVLAFAMGPYLLIFIPALCA
 VALVSFLSPQEVHRLTFFFQMGWQTLCHLGLHYTEYLLGEPVRFYITLSSMLLTQRTSLSLDICEG
 KVEAPRRGIRKSSSEHLWDALPHFSYLLFFPALLGGSLSFRRFQACVQRSSLYPSISFRALTWRGL
 QILGLECLKVALRSVAGAGLDDCQRLECIYLMWSTAWLFLKTYSHWILDDSLHAAGFGAEAGQGP
 EEGYVPDVIWLETTHRISLRFARQWNRSTALWLRRLVFRKSRRWPLLQTFAFSAWWHGLHPGQVFGFLC
 WSYMVKADYL IHTFANVCIRSWPLRLLYRALTWAHTQLIIAYIMLAVEGRSLSSLQQLCCSYNSLFPVMY
 GLLLFLLAERKDKRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9082_b01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001126314

ORF Size: 1305 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001126314.2](#), [NP_001119786.1](#)

RefSeq Size: 1839 bp

RefSeq ORF: 1308 bp

Locus ID: 234155

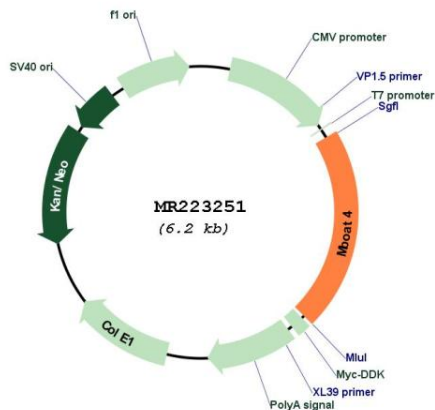
UniProt ID: [P0C7A3](#)

Cytogenetics: 8 A4

MW: 49.9 kDa

Gene Summary: Mediates the octanoylation of ghrelin at 'Ser-3'. Can use a variety of fatty acids as substrates including octanoic acid, decanoic acid and tetradecanoic acid.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223251