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Product datasheet for MC226468

Pomc (NM_001278583) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pomc (NM_001278583) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pomc
Synonyms:	ACT; ACTH; alp; alph; alpha-MSH; alphaMSH; BE; Beta-LPH; beta-M; beta-MSH; Clip; gamma-; Gamma-LPH; gamma-MSH; Npp; PO; Pomc-1; Pomc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226468 representing NM_001278583 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCGAGATTCTGCTACAGTCGCTCAGGGGCCCTGTTGCTGGCCCTCCTGCTTCAGACCTCCATAGATG TGTGGAGCTGGTGCCTGGAGAGCAGCCAGTGCCAGGACCTCACCACGGAGAGCAACCTGCTGGCTTGCAT CCGGGCTTGCAAACTCGACCTCTCGCTGGAGACGCCCGTGTTTCCTGGCAACGGAGATGAACAGCCCCTG ACTGAAAACCCCCGGAAGTACGTCATGGGTCACTTCCGCTGGGACCGCTTCGGCCCCAGGAACAGCAGCA GTGCTGGCAGCGCGGCGCAGAGGCGTGCGGAGGAAGAGGCGGTGTGGGGAGATGGCAGTCCAGAGCCGAG TCCACGCGAGGGCAAGCGCTCCTACTCCATGGAGCACTTCCGCTGGGGCAAGCCGGTGGGCAAGAAACGG CGCCCGGTGAAGGTGTACCCCAACGTTGCTGAGAACGAGTCGGCGGAGGCCTTTCCCCTAGAGTTCAAGA GGGAGCTGGAAGGCGAGCGGCCATTAGGCTTGGAGCAGGTCCTGGAGTCCGACGCGGAGAAGGACGACGG GCCCTACCGGGTGGAGCACTTCCGCTGGAGCAACCCGCCCAAGGACAAGCGTTACGGTGGCTTCATGACC TCCGAGAAGAGCCAGACGCCCCTGGTGACGCTCTTCAAGAACGCCATCATCAAGAACGCGCACAAGAAGG GCCAGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001278583
Insert Size:	708 bp

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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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001278583.1, NP_001265512.1
RefSeq Size:	1119 bp
RefSeq ORF:	708 bp
Locus ID:	18976
UniProt ID:	P01193
Cytogenetics:	12 1.99 cM
Gene Summary:	This gene encodes a polypeptide hormone precursor that undergoes extensive, tissue-specific, post-translational processing. Processing yields several biologically active peptides, which are involved in diverse cellular functions, such as energy homeostasis, steroidogenesis, and increased melanin production in melanocytes. In mouse deficiency of this gene is associated with obesity, defects in adrenal development, and altered pigmentation. A pseudogene of this gene is located on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013] Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, 4, and 5 encode the same protein.

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