

## Product datasheet for **MG202856**

### Pomc (NM\_008895) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pomc (NM_008895) Mouse Tagged ORF Clone
Tag:	TurboGFP
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-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202856 representing NM_008895 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCGAGATTCTGCTACAGTCGCTCAGGGGCCCTGTTGCTGGCCCTCCTGCTTCAGACCTCCATAGATG  
TGTGGAGCTGGTGCCTGGAGAGCAGCCAGTGCCAGGACCTCACCACGGAGAGCAACCTGCTGGCTTGCAT  
CCGGGCTTGCAAACCTCGACCTCTCGCTGGAGACGCCCGTGTTCCTGGCAACGGAGATGAACAGCCCTG  
ACTGAAAACCCCGAAGTACGTCATGGGTCACCTCCGCTGGGACCGCTTCGGCCCCAGGAACAGCAGCA  
GTGCTGGCAGCGCGGCAGAGGCGTCCGAGGAAGAGGCGGTGTGGGGAGATGGCAGTCCAGAGCCGAG  
TCCACGCGAGGGCAAGCGCTCCTACTCCATGGAGCACTTCGCTGGGCAAGCCGGTGGGCAAGAAACGG  
CGCCCGGTGAAGGTGTACCCCAACGTTGCTGAGAACGAGTCGGCGGAGGCCTTCCCTAGAGTTCAAGA  
GGGAGCTGGAAGGCGAGCGGCCATTAGGCTTGGAGCAGGTCTGGAGTCCGACCGGAGAAGGACGACGG  
GCCCTACCGGTGGAGCACTTCCGCTGGAGCAACCCGCCAAGGCAAGCGTTACGGTGGCTTCATGACC  
TCCGAGAAGAGCCAGACGCCCTGGTGACGCTCTTCAAGAACGCCATCATCAAGAACGCGCACAGAAGG  
GCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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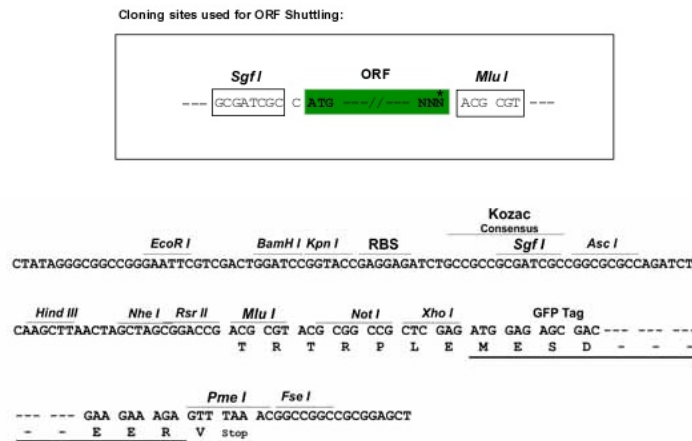
**Protein Sequence:** >MG202856 representing NM\_008895  
 Red=Cloning site Green=Tags(s)

MPRFCYSRSGALLLALLLQTSIDVSWCLESSQCQDLTTESNLLACIRACKLDLSLETPVFPNGDEQPL  
 TENPRKYVMGHRWDRFGPRNSSSAGSAAQRRAEAAVWGDGSPSPREGKRSYSMEHFRWPKVGGKR  
 RPVKVYPNVAENESAEAFPLEFKRELEGERPLGLEQVLESDAEKDDGPYRVEHFRWSNPPKDKRYGGFMT  
 SEKSQTPLVTLFKNAIKNNAHKKGQ

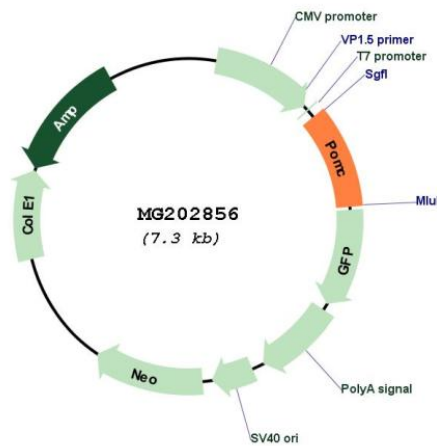
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_008895

**ORF Size:** 705 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_008895.4</a>
<b>RefSeq Size:</b>	1009 bp
<b>RefSeq ORF:</b>	708 bp
<b>Locus ID:</b>	18976
<b>UniProt ID:</b>	<a href="#">P01193</a>
<b>Cytogenetics:</b>	12 1.99 cM
<b>Gene Summary:</b>	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]