



**Protein Sequence:** >MG206223 representing NM\_007799  
 Red=Cloning site Green=Tags(s)

```

MKPLLVL LLLLLL DLQAQ GALHRVPLRRHQSLRKKLRAQGQLSEFWRSHNLDMTRLSESCNVYSSVNEP
L INYLDMEYFGTISIGTPPNFTVIFDTGSSNLWVPSVYCTSPACKAHPVFHPSQSDTYTEVGNHFSIQY
GTGSLTGIIGADQVSV EGLTV DGGQF GESVKEPGQTFVNAEFDGILGLGYPSLAAGGVTPVFDNMQNL
VALPMFSVYLLSSDPQGGSGSELTFGGYDPSHFSGSLNWIPTKQAYWQIALDGIQVGDVTVMFCSEGCQAI
VDTGTSLITGPPDKIKQLQEAIGATPIDGEYAVDCATLDTMPNVTFLINEVSYTLNPTDYILPDLVEGMQ
FCGSGFQGLDIPPPAGPLWILGDV FIRQFYSVFDRGNNQVGLAPAVP
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007799

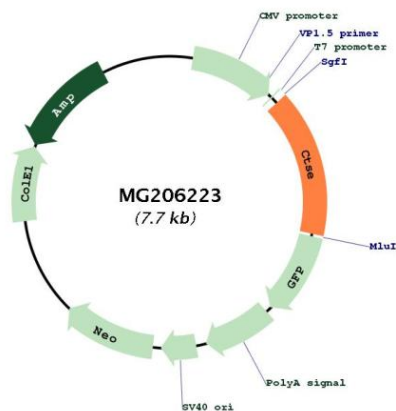
**ORF Size:** 1191 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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>	<u>NM_007799.3, NP_031825.2</u>
<b>RefSeq Size:</b>	2120 bp
<b>RefSeq ORF:</b>	1194 bp
<b>Locus ID:</b>	13034
<b>UniProt ID:</b>	<u>P70269</u>
<b>Cytogenetics:</b>	1 57.14 cM
<b>MW:</b>	42.9 kDa
<b>Gene Summary:</b>	This gene encodes a member of the peptidase A1 family of aspartate proteases and preproprotein that is proteolytically processed to generate a mature protein product. The encoded protein may be involved in antigen processing and the maturation of secretory proteins. Elevated expression of this gene has been observed in neurodegeneration. Homozygous knockout mice for this gene exhibit lysosomal storage disorder, impaired autophagy, mitochondrial abnormalities, dermatitis, and reduced weight gain in an obesity model. [provided by RefSeq, Aug 2015]

**Product images:**


Circular map for MG206223