

Product datasheet for **MG200906**

Pomp (NM_025624) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pomp (NM_025624) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pomp
Synonyms: 2510048O06Rik; Ump1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200906 representing NM_025624
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACGCCAGAGGTCTTGGGTCGGAGCTGAAGGACAGTATTCCAGTCGCGGAGCTCTCAGCCAGCGGGC
 CTTTCGAGAGTCACGATCTTCTCCGAAAGGGTTTTCTTGTGTGAAAAATGAACTTTGCCAGTCACCC
 TCTCGAGTTATCAGAAAAAACTCCAGCTCAACCAGGACAAGATGAACTTTCCACGCTGAGGAACATC
 CAGGGTCTGTTTGCTCCCCTGAAGTTACAGATGGAATTCAGGCAGTGCAGCAGGTTACCGTCTCCGT
 TTCTCCCGAGCTCAAACCTCTCACTGGATATTTGAGGGGCAACGATGAGACCATTGGTTTTGAGGATAT
 TCTTAATGATCCATCACAAAGTGAAGTGGTGGAGCCACCGTATGGTGAACATAAGCTGGGCTTG
 CTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200906 representing NM_025624
 Red=Cloning site Green=Tags(s)

MNARGLGSELKDSIPVAELASGPFESHDLRKFSCVKNELLP SHPLELSEKNFQLNQDKMNFSTLRNI
 QGLFAPLKLQMEFKAVQQVHRLPFLPSSNLSLDILRGNDETIGFEDILNDPSQSELMGEPHVMVEHKLGL
 L

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

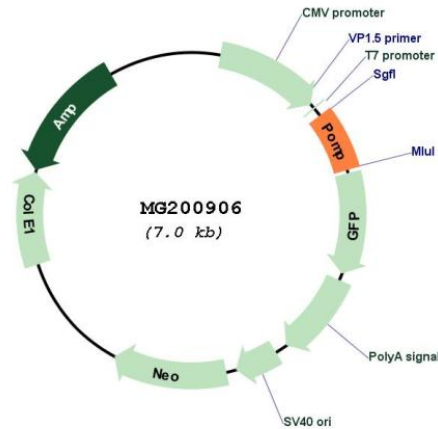


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Cloning Scheme:



Plasmid Map:



ACCN: NM_025624

ORF Size: 423 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:	<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_025624.3</u>
RefSeq Size:	735 bp
RefSeq ORF:	426 bp
Locus ID:	66537
UniProt ID:	<u>Q9CQT5</u>
Cytogenetics:	5 G3
Gene Summary:	Molecular chaperone essential for the assembly of standard proteasomes and immunoproteasomes. Degraded after completion of proteasome maturation (By similarity). Mediates the association of 20S preproteasome with the endoplasmic reticulum (By similarity).[UniProtKB/Swiss-Prot Function]