

Product datasheet for **MG227070**

Pappa (NM_021362) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pappa (NM_021362) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pappa
Synonyms: 8430414N03Rik; IGFBP-4ase; PAG1; PAPP-A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227070 representing NM_021362
Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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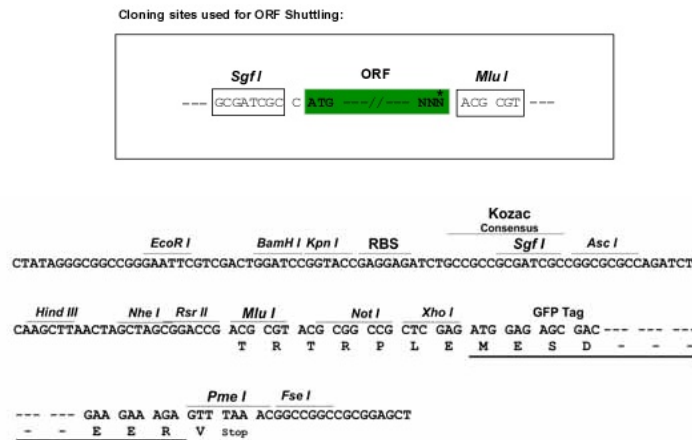
Protein Sequence: >MG227070 representing NM_021362
 Red=Cloning site Green=Tags(s)

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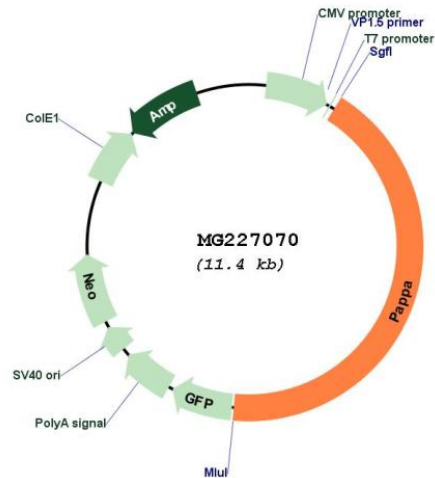
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021362

ORF Size: 4872 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_021362.1](#), [NP_067337.1](#)

RefSeq Size: 11027 bp

RefSeq ORF: 4875 bp

Locus ID: 18491

UniProt ID: [Q8R4K8](#)

Cytogenetics: 4 34.14 cM

Gene Summary: Metalloproteinase which specifically cleaves IGFBP-4 and IGFBP-5, resulting in release of bound IGF. Cleavage of IGFBP-4 is dramatically enhanced by the presence of IGF, whereas cleavage of IGFBP-5 is slightly inhibited by the presence of IGF. Isoform 2 cleaves IGFBP-4 very slowly compared to PAPP-A, but its ability to cleave IGFBP-5 is unaffected.[UniProtKB/Swiss-Prot Function]