

## Product datasheet for **MG203848**

### **Ppap2a (BC061161) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ppap2a (BC061161) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ppap2a
Synonyms:	Hic53, LPP1, mPAP, LPP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203848 representing BC061161 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGTTGACAAGACGCGGCTGCCGTACGTGGCCCTCGATGTGATTTGCGTGTTGCTGGCTGCCATGCCTA  
TGACTATTTTAAATGGGCAAAGTATATCCATTCAGAGGGGCTTTTCTGTACTGACAACAGCGTGAA  
GTACCCGTACCATGACAGTACCATCCCGTCCCGTATACTCGCCATACTGGGGCTTGGCTTACCCATTTTC  
TCTATGAGTATTGGAGAATCTCTGTCTGTTTACTTTAATGTCTTGCAATTCGAATTCCTTTGTCGGCAATC  
CCTACATAGCCACCATTACAAAGCCGTCGGAGCCTTTTGTTCGGAGTCTCAGCTAGTCAGTCCCTTGAC  
TGACATCGCTAAGTATACTATAGGCAGTTTGGCGCCGCACTTCTTGCTATCTGTAAACCAGACTGGTCA  
AAAATCAACTGCAGTGATGGCTATATTGAGGACTACATATGTCAAGGGAATGAAGAGAAAGTCAAGGAGG  
GCAGGTTGCTTTCTACTCGGGACACTTTCATTCTCTATGACTGCATGCTGTTTGTGCGCACTTTATCT  
TCAAGCCAGGATGAAGGGAGACTGGGCAAGACTTTACGACCCATGCTCCAGTTTGGGCTCATTGCTTTT  
TCCATATATGTGGGCTTTCTCGAGTGTCTGACTACAAACACCACTGGAGTGACGTCACAGTTGGACTCA  
TTCAGGGAGCTGCTATGGCTATACTGGTTGCTTGTATGTATCCGATTTCTTCAAGGACACACATTCTTA  
CAAAGAGAGAAAGGAAGGATCCACACAGACTCTCCATGAAACCGCCAGTTTACGGAACACTACTCAACC  
AATCACGAGCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203848 representing BC061161  
 Red=Cloning site Green=Tags(s)

MFDKTRLPYVALDVICVLLAAMPMTILKLGKVYPFQRGFFCTDNSVKYPYHDSTIPSRILAILGLGLPIF  
 SMSIGESLSVYFNVLHSNSFVGNPYIATIYKAVGAFILFGVSASQSLTDIAKYITIGSLRPHFLAICNPDWS  
 KINCSDGYIEDYICQGNEEKVKEGRLSFYSGHSSF SMYCLFVALYLQARMKGDWARLLRPMQLQGLIAF  
 SIYVGLSRVSDYKHHWSDVTVGLIQGAAMAILVALYVSDFFKDTHSYKERKEEDPHTTLHETASSRNYST  
 NHEP

TRTRPLE - GFP Tag - V

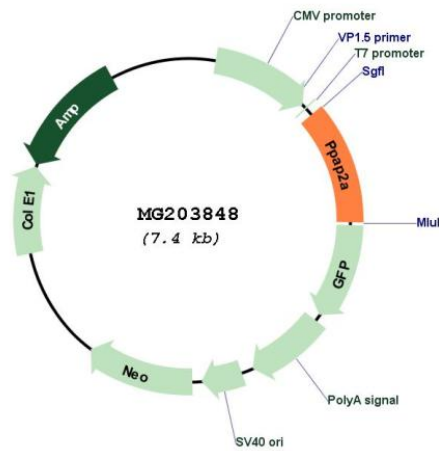
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** BC061161

**ORF Size:** 854 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="#">BC061161</a> , <a href="#">AAH61161</a>
<b>RefSeq Size:</b>	1415 bp
<b>RefSeq ORF:</b>	854 bp
<b>Locus ID:</b>	19012
<b>Cytogenetics:</b>	13 D2.2
<b>Gene Summary:</b>	Broad-specificity phosphohydrolase that dephosphorylates exogenous bioactive glycerolipids and sphingolipids. Catalyzes the conversion of phosphatidic acid (PA) to diacylglycerol (DG). In addition it hydrolyzes lysophosphatidic acid (LPA), diacyl glycerol pyrophosphate (DGPP), ceramide-1-phosphate (C-1-P) and sphingosine-1-phosphate (S-1-P). The relative catalytic efficiency is LPA > PA > C-1-P > S-1-P.[UniProtKB/Swiss-Prot Function]