

Product datasheet for **MG204852**

Ppa2 (NM_146141) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ppa2 (NM_146141) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ppa2
Synonyms: 1110013G13Rik; Sid6306
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204852 representing NM_146141
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCGCGTGTGCCGCTGCTGAGCGTCGGCCGAGGGTGGCGCGTGGGGGCGCCGCCGCCCTCCGC
GCCGCGTCATGTCCCTGTACCGCACGGAGGAGCTGGGCCATCCCCGCTCGCAGGACTACCGCCTGTTCTT
CAAGCATGTAGCTGGTCATTACATCTCCCTTTCCACGACATTCCTCTGAAGCGGACTGTAAGAGAGAA
CATGACATTCCCAGGAAAAAGGCACGAAATGATGAATATGAGAATTTGTTAATATGTTTGTGAAATAC
CTCGGTGGACAAATGCCAAGATGGAGATTGCCACAGAGGAGCCACTCAATCCCATTAAAGCAAGATATAAA
GAACGAAAGCTACGCTACACACCGAACATCTCCCTCACAAGGCTATATATGGAATTACGGGGCCCTC
CCTCAGACCTGGGAAGATCCTCACCTAAGAGATAAGAGCACCGACTGCTGTGGGATAATGATCCCATTG
ACGTCTGTGAAATAGGCTCAAAGTTCTTTCCCGTGGAGACGTGGTCCATGTGAAGATCCTTGGGACTTT
GGCACTTATTGATCAGAGTGAACAGATTGAAAAATAATTGCTATCAATGTGAATGATCCTGAGGCTGAA
AAATTTTATGATATTGATGATGTTAAGAAGTTCAAACCAGGTTACCTGGAAGCCACTCTCAATTGGTTTA
GACTCTATAAGGTACCAGATGAAAAACCAGAAAACAAGTTTGCTTTAATGGAGAATTCAAAAACAAGGC
TTTCGCCCTCGACGTTATTAACCTCTGCACATGAACGTTGGAAAGAGATGGTTATGAAGAAGTGTGACAAG
GGAGCCATCAGTTGTGTAATGTGCACATCTGCGATAGCCCTTTCCACTGCACTATGGAGGAAGCAAGAT
CATTGGTTGAATCGGTTCCAACCTTCGATGAATAAGGAAAGCAATGTAGAGGAAGAAGTGTGGCACTT
CCTCCGCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204852 representing NM_146141
Red=Cloning site Green=Tags(s)

MRALLPLL SVGRGWRV GAAARPPRRVMSLYRTEELGHPRSQDYRLF FKHVAGHYISPFHDIPLKADCKEE
 HDIPRKKARNDEYENLFNMVVEIPRWTKAKMEIATEEPLNPIKQDIKNGKLRYTPNIFPHKGYIWNYGAL
 PQTWEDPHLRDKSTDCCGDNDPIDVCEIGSKVLSRGDVVHVKILGTLALIDQSETDWKIIAINVNDPEAE
 KFHDIDDVKKFKPGYLEATLNWFRLYKVPDGKPKENKFAFNGEFKNKAFALDVINSAHERWKEMVMKKCDK
 GAISCVNVHICDSPFHCTMEEARSLVESVPTPSMNKESNVVEEVWHFLRN

TRTRPLE - GFP Tag - V

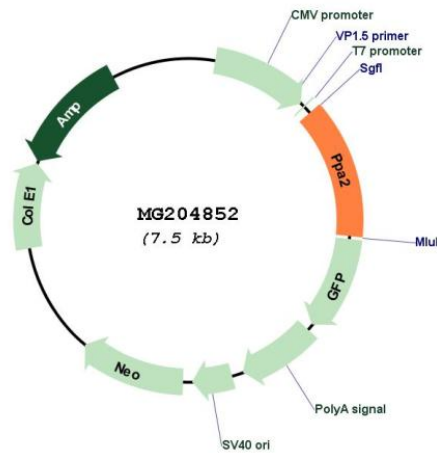
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_146141

ORF Size: 990 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:	NM_146141.2 , NP_666253.1
RefSeq Size:	1225 bp
RefSeq ORF:	993 bp
Locus ID:	74776
UniProt ID:	Q91VM9
Cytogenetics:	3 G3
Gene Summary:	Hydrolyzes inorganic pyrophosphate. This activity is essential for correct regulation of mitochondrial membrane potential, and mitochondrial organization and function. [UniProtKB/Swiss-Prot Function]