

Product datasheet for **MR229274**

Ppa2 (NM_001293641) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ppa2 (NM_001293641) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ppa2
Synonyms: 1110013G13Rik; Sid6306
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229274 representing NM_001293641
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGCGCGCTGCTGCCGCTGCTGAGCGTCGGCCGAGGGTGGCGGTGGGGCCGCCGCCGCCCTCCGC
GCCGCGTCATGTCCTGTACCGCACGGAGGAGCTGGGCCATCCCCGCTCGCAGGACTACCGCCTGTTCTT
CAAGCATGTAGCTGGTCATTACATCTCCCCTTCCACGACATTCCTCTGAAGCGGACTGTAAGAGGAA
CATGACATCCCAGGAAAAGGCACGAAATGATGAATATGAGAATTTGTTAATATGGTTGTGAAATAC
CTCGGTGGACAAATGCCAAGATGGAGATTGCCACAGAGGAGCCACTCAATCCCATTAAGCAAGATATAAA
GAACGGAAAGCTACGCTACACACCGAACATCTCCCTCACAAGGGCTATATATGGAATTACGGGGCCCTC
CCTCAGACCTGGGAAGATCCTCACCTAAGAGATAAGAGCACCGACTGCTGTGGGGATAATGATCCCATTG
ACGCTGTGAAATAGGCTCAAAGTTCTTCCCGTGGAGACGTGGTCCATGTGAAGATCCTTGGGACTTT
GGCACTTATTGATCAGAGTGAACAGATTGAAAATAATTGCTATCAATGTGAATGATCCTGAGGCTGAA
AAATTTGATGATATTGATGATGTTAAGAAGTTCAAACCGGTTACCTGGAAGCCACTCTCAATTGGTTTA
GACTCTATAAGGTACCAGATGGAAAACCGAAAACAAGTTTGCTTTTAATGGAGAATTCAAAACAAGGC
TTTCGCCCTCGACGTTATTAACCTCTGCACATGAACGTTGAAAGAGATGGTTATGAAGAAGTGTGACAAG
GGAGCCATCAGTTGTGTAATGTGCACATCTGCGATAGCCCTTCCACTGCACTATGGAGGAAGCAAGAT
CATTGGTTGAATCGGTTCCAACACCTTCGATGAATAAGGAAAGCAATGTAGAGGAAGTGTGGCACTTCT
CCGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229274 representing NM_001293641
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MRALLPLL SVGRGWRV GAAARPPRRVMSLYRTEELGHPRSQDYRLF FKHVAGHYISPFHDIPLKADCKEE
 HDIPRKKARNDEYENLFNMVVEIPRWNAKMEIATEEPLNPIKQDIKNGKLRYTPNIFPHKGYIWNYGAL
 PQTWEDPHLRDKSTDCCGDNDPIDVCEIGSKVLSRGDVVHVKILGTLALIDQSETDWKIIAINVNDPEAE
 KFHDIDDVKKFKPGYLEATLNFWRLYKVPDGKPKENKFAFNGEFKNKAFALDVINSAHERWKEMVMKKCDK
 GAISCVNVHICDSPFHCTMEEARSLVESVPTPSMNKESNVVEEVWHFLRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

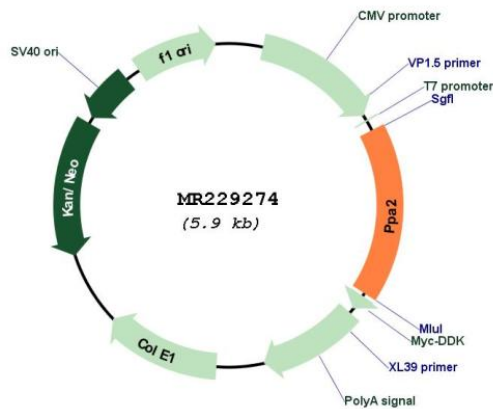
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001293641

ORF Size: 987 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_001293641.1 , NP_001280570.1
RefSeq Size:	1380 bp
RefSeq ORF:	990 bp
Locus ID:	74776
UniProt ID:	Q91VM9
Cytogenetics:	3 G3
MW:	38.4 kDa
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]