

Product datasheet for **RR214887**

Paip2 (NM_001014148) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Paip2 (NM_001014148) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Paip2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214887 representing NM_001014148
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAAAGATCCAAGTCGCAGCAGTACTAGCCCAAGCATCATCAATGACGATGTGATTATTAACGGTCATT
CTCATGAAGAGGATAATCCATTTGCAGAGTACATGTGGATGAAAAATGAAGAGGAATTCACAGACAAAT
AGAAGAGGAGTTGTGGGAAGAAGAATTTATTGAACGCTGTTTCCAAGAAATGCTGGAAGAGGAAGAAGAA
CATGAATGGTTTATTCCAGCCCGAGATCTCCACAAACTATGGACCAAATCCAAGACCAGTTTAATGACC
TTGTTATCAGTGATGGCTCTTCTCTGGAAGATCTTGTGGTGAAGCAATCTGAATCCAATGCAAAGGA
GTTTGTCTCTGGGTGAAGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR214887 representing NM_001014148
Red=Cloning site Green=Tags(s)

MKDPSRSSTSPSIINDDVIINGHSHEEDNPFAYMWMENEEEFNRQIEEELWEEEFIERCFQEMLEEEEE
HEWFIPARDLPQTMQIQDFNDLVISDGSLEDLVVKSNLNPNNAKEFVPGVKY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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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_001014148.1, NP_001014170.1</u>
RefSeq Size:	1681 bp
RefSeq ORF:	375 bp
Locus ID:	361309
UniProt ID:	<u>Q6AXZ0</u>
Cytogenetics:	18p11
MW:	14.7 kDa
Gene Summary:	Acts as a repressor in the regulation of translation initiation of poly(A)-containing mRNAs. Its inhibitory activity on translation is mediated via its action on PABPC1. Displaces the interaction of PABPC1 with poly(A) RNA and competes with PAIP1 for binding to PABPC1. Its association with PABPC1 results in disruption of the cytoplasmic poly(A) RNP structure organization (By similarity).[UniProtKB/Swiss-Prot Function]