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Product datasheet for RR208546

Pip4p2 (NM_001024900) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pip4p2 (NM_001024900) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pip4p2
Synonyms:	RGD1306225; Tmem55a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR208546 representing NM_001024900 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCTGCTGACGGGGTGGACGAACGTTCGCCTCTGCTGTCAGCATCCCATTCGGGCAATGTCACTCCCA CAGCCCCGCCGTACTTGCAAGAAAGCAGCCCAAGAGCTGAACTCCCACCTCCGTATACAGCCATCGCCAG TCCAGGAACAAGCGGTATTCCCGTCATCAACTGTCGCGTGTGCCAATCGCTCATCAACCTGGATGGTAAA CTTCACCAGCATGTGGTTAAGTGCACAGTTTGTAATGAAGCTACGCCAATCAAAACCCCCCCGACAGGGA AGAAATATGTTAGATGCCCTTGTAATTGTCTCCTCATTTGTAAGGACACATCTCGGCGAATAGGATGTCC TAGACCCAACTGTCGACGCATAATCAACCTTGGCCCCATAATGCTCATTTCTGAAGAGCAACCGGCTCAA CCTGCGCTGCCAGTCCAGCCGGAAGGTACAAGGGTAGTGTGCGGGCACTGCGGGAACACGTTCCTGTGGA TGGAACTGAGGTTCAACACTCTGGCAAAATGCCCACACTGCAAAAAAATCTCCTCGGTGGGTAGCGCCCT TCCCCGGAGACGCTGCTGTGCATACGTCACCATCGGAATGATATGTATTTTCATTGGAGTTGGGTTAACT GTTGGCACACAAGATTTTTCAAGGCGATTTCATGCAACTTATGTGTCTTGGGCAATTGCTTATCTGTTAG GTTTGATTTGCCTTATCCGAGCTTGTTACTGGGGTGCAATCAGAGTCAGTTATCCAGAGCACGGTTTTGC T ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

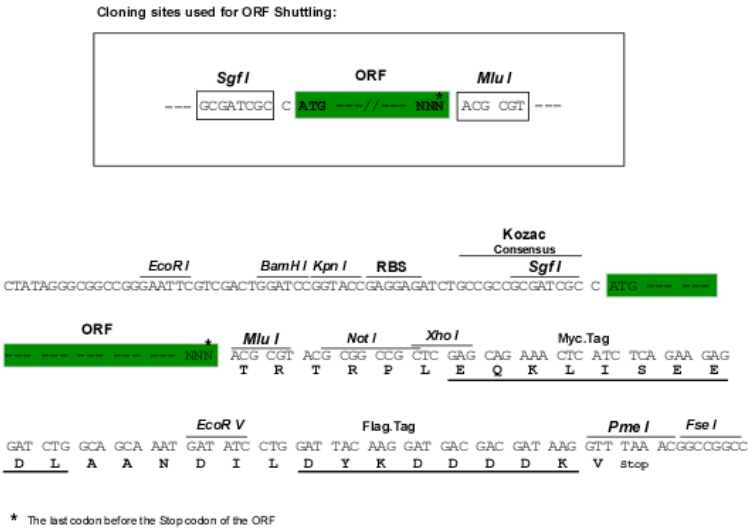
>RR208546 representing NM_001024900
Red=Cloning site Green=Tags(s)

MAADGVDERSPLLSASHSGNVTPTAPPYLQESSPRAELPPPYTAIASPGTSGIPVINCRVCQSLINLDGK
LHQHVVKCTVCNEATPIKTPPTGKKYVRCPCNCLLICKDTSRRIGCPRPNCRRIINLGPIMLISEEQPAQ
PALPVQPEGTRVVCGHCGNTFLWMELRFNTLAKCPHCKKISSVGSALPRRRCCAYVTIGMICIFIGVGLT
VGTQDFSRRFHATYVSWAIAYLLGLICLIRACYWGAIRVSYPEHGFA

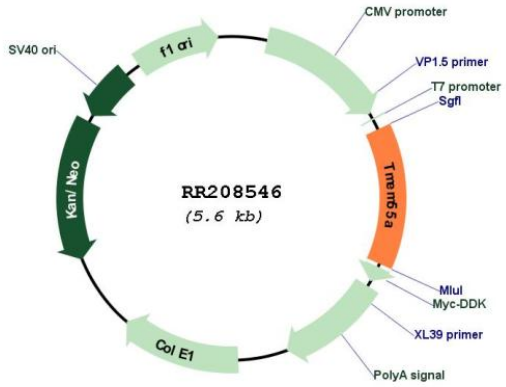
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001024900

ORF Size: 771 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_001024900.1, NP_001020071.1
RefSeq Size:	2255 bp
RefSeq ORF:	774 bp
Locus ID:	362490
UniProt ID:	Q4V888
Cytogenetics:	5q13
MW:	28 kDa
Gene Summary:	Catalyzes the hydrolysis of phosphatidylinositol-4,5-bisphosphate (PtdIns-4,5-P2) to phosphatidylinositol-4-phosphate (PtdIns-4-P) (By similarity). Does not hydrolyze phosphatidylinositol 3,4,5-trisphosphate, phosphatidylinositol 3,4-bisphosphate, inositol 3,5-bisphosphate, inositol 3,4-bisphosphate, phosphatidylinositol 5-monophosphate, phosphatidylinositol 4-monophosphate and phosphatidylinositol 3-monophosphate (By similarity). Negatively regulates the phagocytosis of large particles by reducing phagosomal phosphatidylinositol 4,5-bisphosphate accumulation during cup formation (By similarity). [UniProtKB/Swiss-Prot Function]