

Product datasheet for **RR217531**

Ppfia4 (NM_080409) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ppfia4 (NM_080409) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Ppfia4
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR217531 representing NM_080409
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGTGAGGTGATGCCACAATCAATGAGGGGGACCCTCTGGGGCCCCCACCAGGTGCCGATGCTGACG
 CCAACTTTGAGCAGTTGATGGTGAACATGCTGGATGAGCGAGAGAAGTTGCTGGAGTCCCTTCGGGAGAG
 TCAGGAAACTTTGGTAGCCACACAGAGCCGGCTCCAAGATGCCCTTACGAGCGAGACCAGTCCAGCGC
 CACCTGAACTCTGCCCTTCCCCAGGAATTTGCCACATTAAGTTCGGGAGCTAAGCATGTGTGGGAGCAGC
 TTCTGGAGCGGGAGGAAGAGATATCTGAGCTGAAAGCAGAACGGAATAAAGTACTAGGCTGCTTCTGGAACA
 TCTGGAATGCCTCGTGTCCCGCCATGAGCGGTCATTGCGAATGACAGTGGTAAAACGCCAGGCCAGTCA
 CCTTCAGGTGTCTCCAGTGGAGGTGAGGTGCTGAAGGCCCTCAAGTCACTATTTGAGCACCACAAGGCC
 TGGATGAGAAGGTTGAGAGCGGCTCCGGGAGCTCTAGAGCGAGTTACCACCTGGAGGAGCAGTTGGC
 AGGAGCTCACCAGCAGGTGTCTGCCCTGCAGCAGGGGGCAGGAATTCGGGATGGAGTGGCAGAAGAGGAA
 GAAACTGTGGATCTGGACAAAACGCCCTGTGAAAGATGACACTGGCCGTGTGGAAGAACTGCAAGGGC
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 CAGCGCGACCTCCGAGAGGCTCTGGCTCAGAAGGAGGACATGGAAGAGCGAATCACCACCCTGGAGAAGC
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 GGGAAAGAGTCTGCCAAGGACTGGAAGCCGGCACCCTGCCGGGGTGTGGCTGCCACCACCAGCCCTGC
 CTTTGACAGTGACCTGAGATCTCCGATGTGGACGAGGATGAGCCTGGTGGCTTGGTGGGCACTCAGGTT



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GATGTCATCTCACCTGGTGGCCATTCTGATGCCAAACCCTGGCCATGATGCTCCAGGAACAACTGGATG
 CCATCAACCAGGAGATCAGGATGATTGAGGAGGAGAAGGAATCCACTGAGCTGCGTGCTGAAGAGATTGA
 GACCCGTGTGACCAGCGGCAGCATGGAGGCCCTCAACCTGACCCAGCTGCGCAAGCGTGGCTCCATCCCC
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 AAGAAGGACCTGCGTGTCCACCTCAAGTGGTGGACAGTTTCCATAGAACCAGTCTTCAATGATGGATCA
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 CATTGGCCTTGGTCTGCAGATCCACACAGAACACCCAGGCCCGCAAGTGTGAGAGAGAGAGTTCAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR217531 representing NM_080409
 Red=Cloning site Green=Tags(s)

MCEVMPTINEGDPLGPPHGADANFEQLMVNMLDEREKLLLESLRESQETLVATQSRQLQDALHERDQLQR
 HLNNSALPQEFATLTREL SMCREQLLEEEEEISELKAERNNTRLLLEHLECLVSRHERSLRMTVVKRQAS
 PSGVSSEVEVLKALKSLFEHHKALDEKVRERLRAALERVTTLEEQLAGAHQQVSALQQGAGIRDVGAEEE
 ETVDLGPKRLWKDDTGRVEELQGLLEKQNYELSQARERLVTLSATVTELEEDLGTARRDLIKSEELSGKH
 QRDLREALAQKEDMEERITTTLEKRYLAAQREATS.IHDLNDKLENELANKESLHRQCEEKARHLQELLEVA
 EQKLQQTMRKAETLPEVEAELSQRIAALTKAEERHGNIEHLRQLEGLLEKNQELARVRQREKMNEDHN
 KRLSDTVDRLLESNERLQLHLKERMAALEEKGRLLSEEIEKLRQEVDQLKGRGGPFVDGIHSRSHVSTT
 DVRFSLSTAHHVPPGLHRRYTALREESAKDWKPAPLPGVLAATTPAFDSDPEISDVDEDEPGGLVGTQV
 DVI SPGGHSDAQT LAMMLQEQLDAINQEIRMIQEEKESTELRAEEIETRVTSGSMEALNL TQLRKRGSIP
 TSLTALSLASAPPLSGRSTPKLTSRSAAQDLDRMGVMTLPSDLRKHRRKLLSPVSREENREDKATIKCE
 TSPSSPRTLRLLEKLGHP TLSQEEGKSALEQDSNPSSSNSSQDSLHKGAKRKGIKSSIGRLF GKKEKGR
 LIHL SRDATGHVLLTDSEL SLQEPMPAKLGTQAEKDRRLKHKHQLLEDARRKGMPPFAQWDGPTVVSWE
 LWWGMPAWYVAACRANVKSAGIMSALSDEIQREIGISNALHRLKRLAIQEMVSLTSPSAPPTSRTSSG
 NVWVTHEEMETLSTSTKTDSEEGSWAQT LAYGDMNHEWIGNEWLP SGLPQYRSYFMECLVDARMLDHLT
 KKDLRVHLK MVD SFHRTSLQYIGIMCLKRLNYDRKELEKRREESQHEIKDVLVWNTDQV VHWVQSIGLRDY
 AGNLHESGVHGALLALDENFDHNTLALVLQIPTQNTQARQVMEREFNNLLALGTDRLDLDGEEKVFRAP
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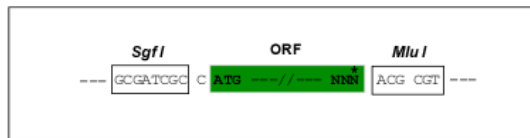
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

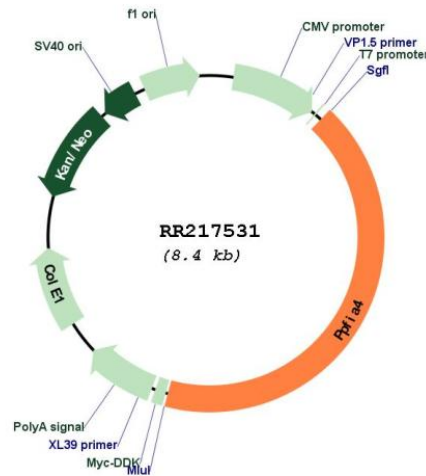
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_080409

ORF Size: 3555 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_080409.1](#), [NP_536334.1](#)

RefSeq Size: 5852 bp

RefSeq ORF: 3558 bp

Locus ID: 140592

UniProt ID: [Q91Z80](#)

Cytogenetics: 13q13
MW: 133.9 kDa
Gene Summary: putative effectors for Rab3A, a synaptic vesicle protein that regulates synaptic vesicle exocytosis [RGD, Feb 2006]