

Product datasheet for **RR210072**

Phactr1 (NM_214457) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phactr1 (NM_214457) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phactr1
Synonyms:	MGC112561
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR210072 representing NM_214457
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTATCCCAAATGGATTATTTCTGGACGTTGAGTCGGCTCACAGACTCCTGGATGTGGAGTCAG
 CACAGAGATTCTTCTATAGCCAAGGAGCTCAAGCTCGCCGGGCGACCCTGCTCCTGCCTCCACATTAAT
 GGCGGTTCTTCGGAGGATGACATAGACCGGCGCCCATCAGAAGAGTCCGCTCCAAGAGCGACACGCCA
 TATCTCGCAGAGGCCAGGATCTCCTTTAACCTGGGGCAGCTGAGGAAGTGAAAGGCTGGCGGCCATGC
 GCTCTGACTCGTTGGTCCAGGTACGCACACCCGCCATCCGGAGGAGGAGTAAGTTTGCCAACCTGGG
 AAGGATTTTCAAGCCTTGAAATGGAGGAAGAAGAAAAGCGAAAAGTTCAAGCACACGTACGAGCTCTG
 GAAAGGAAGATATCGATGAGGCAGAGCAGAGAGGAGCTGATCAAGCGAGGGGTCTGAAGGAGATCTACG
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 CCAGCTCTCTTGCCTGCTCTGTGCGAAATGGAGCCTGTCCCAATGCCAGGGACCCCTGCTCATATGAG
 GTGCTCCAAGTTCAGACATTATGGATGGACCAGATCCTGGCGCCCCGTGAAATTCGCTTGTCTGCCAG
 TGAAACTGTGCGCTCCGCTACCTCCAAGAAAAGTCTGATCTGCATGCCTGTAGGGGGCCAGAGCTCTC
 CCTGGCATCTACACAGCCCAGAAGAGCAGCCAGCAGGCTGTGGCCAGCACCACACCGTCTCGCCA
 TCCCAGATGCAGCACCAGCTGCAGTATGGCAGCCACGGCCAGCATCTCCCGTCTCCACCGGCACCTTAC
 CCATGCACCCCTCGGGCTGCAGGATGATCGATGAGCTGAACAAGACACTTGTATGACCATGCAGAGGCT
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 GGAAGAGGAGGAGGACGAAGATGACGACGCTCCTTGTACACCACTCACTGGCCATGAAGGTCTGCAGG
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 GAGGAGAAGCGGGAAATAAAGAGGAGGCTGACTCGCAAGCTCAGCCAAAGACCCACGGTGAAGAAGTCC
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 GGCGGACAAGCCATGGACCCGCTCACCCTGTCAGACAAAGTCCATTGGAAGGAACTCAATGAGTTT
 AAAAGTACCGAAATGGAAGTCCACGAGTAAAGTAGACTTAACCAGGTTTCATCGACCT

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

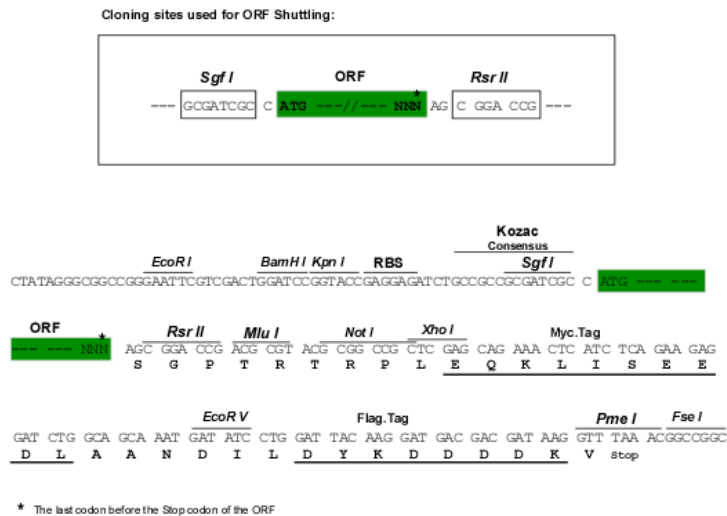
>RR210072 representing NM_214457
 Red=Cloning site Green=Tags(s)

MDYPKMDYFLDVESAHRLLDVESAQRFFYSQGAQARRATLLLPTLMAASSEDDIDRRPIRRVRKSDTP
 YLAEARISFNLGAAEEVERLAAMRSDSLVPGTHTPPIRRRSKFANLGRIFKPWKWRKKKSEKFKHTSAAL
 ERKISMRSREELIKRGVLKEIYDKDGELISINEDDSL TNGQSLSSQLSLPALSEMEPVMPRPDPCSYE
 VLQASDIMDGPDPGAPVKLPCLPVKLSPLPPKVLICMPVGGPELSASYTAQKSSQQAQVHHHTVLP
 SQMQHQLQYGSQGHLPSSTGTLPMHPSGRMIDELNKTAMTMQRLESSEQRVPCSTSYHSSGLHSSDG
 VTKAGPLGLPEIRQVPTVVI ECDNKENVPHEPDYEDSSCLYAREEEEEDEDDASLYTSSLAMKVCR
 KDSLAIKLSNRPSKRELEEKNILPRQTDEERLELRQQIGTKL TRRLSQRPTAEELEQRNLIKPRNEQEEQ
 EEKREIKRRLTRKLSQRPTVEELRERKILIRFSDYVEVADAQDYDRRADKPWTRLTAADKAAIRKELNEF
 KSTEMEVHEL SRHLTRFHRP

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_214457

ORF Size: 1740 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_214457.2](#), [NP_999622.2](#)

RefSeq Size: 2078 bp

RefSeq ORF: 1743 bp

Locus ID: 306844

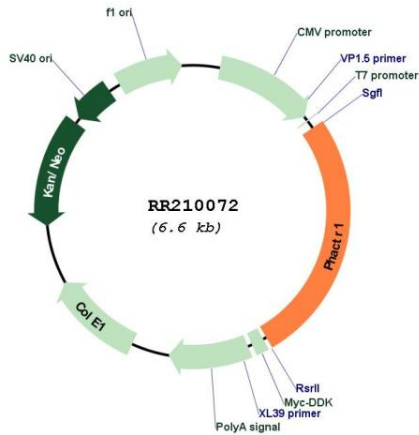
UniProt ID: [P62024](#)

Cytogenetics: 17p13-p12

MW: 66.2 kDa

Gene Summary: Binds actin monomers (G actin) and plays a role in multiple processes including the regulation of actin cytoskeleton dynamics, actin stress fibers formation, cell motility and survival, formation of tubules by endothelial cells, and regulation of PPP1CA activity (By similarity). Involved in the regulation of cortical neuron migration and dendrite arborization (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR210072