

Product datasheet for **MR230577**

Phactr1 (NM_001302635) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phactr1 (NM_001302635) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phactr1
Synonyms:	9630030F18Rik; Rpel1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR230577 representing NM_001302635
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATTATCCAAAATGGATTATTTCTGGACGTTGAGTCTGCTCACAGACTCTTGGATGTGGAGTCGG
 CGCAGAGGTTCTTCTACAGTCAAGGAGCTCAAGCTCGCCGGGCGACCCTGCTCCTGCCTCCACATTAAT
 GGCGGTTCTTCGGAGGATGACATAGACCGCGGCCCATCAGAAGAGTCCGCTCCAAGAGCGACACGCCA
 TATCTCGCAGAGGCCAGGATCTCCTTTAACCTGGGGCAGCCGAGGAAGTGGAGAGGCTGGCAGCCATGC
 GTTCCGACTCGTGGTCCAGGTACGCACACCCGCCCATCCGGAGGAGGAGTAAGTTTGCCAACTGGG
 GAGGATTTTCAAACCTGGAATGGAGGAAGAAGAAAAGTAAAAGTTCAAGCACACGTCAGCAGCTCTG
 GAAAGGAAGATTCGATGAGGCAGAGCAGAGAGGAGCTGATCAAGAGAGGGGTCTTGAAGGAGATCTACG
 ATAAAGATGGAGAATCTCTATATCAAATGAAGATGACTCCCTGGAGAACGGACAGTCCCTGAGCTCCAG
 CCAACTCTTTGCTGCTCTGTGCGAAATGGAGCCTGTCCCAATGCCAGGGACCCATGCTCATATGAG
 GTGCTCCAAGCTTCAGACATTATGGATGGACCAGATCCTGGCGCCCTGTGAAATTCGCTTGTCTGCCAG
 TGAACCTGTCGCCTCCGCTACCTCCAAAGAAAGTCTGATCTGTATGCCTGTAGGGGGGCCAGAGCTCAC
 TCTGGCATCCTATGCAGCCCAGAAGAGCAGCCAGCAGGCCGTGGCCAGCACCACACCGTCTACCA
 TCCCAGATGCAGCACCAGCTGCAGTATGGCAGTACGGCCAGCATCTCCCATCCTCCACCGGCACCTTGC
 CCATGCACCCCTCAGGCTGCAGGATGATCGACGAGCTGAACAAGACACTCGCCATGACGATGCAGAGGCT
 GGAAGCTCCGAGCAACGAGTCCCCTGTTCCACGTCTTACCACAGTCTGGTTTGCACCTAAGCGACGGC
 ATCAGAAAAGCAGGACCCATGGGCCTCCGGAATAAGACAAGTGCCAACTGTTGTGATTGAATGTGATG
 ACAATAAGGAAAATGTGCCTCATGAACCCGACTATGAAGACTCGCCCTGCCTGTATGGCCGGGAGGAG
 GGAAGAGGAGGAAGATGAAGATGATGACGCCTCTTTGTACACCAGCTCACTGGCCATGAAGGTGTGCAAG
 AAGGACTCCTTAGCCATCAAACCTAGCAACAGGCCCTTAAGCGAGAGCTAGAAGAAAAGAACATCTCC
 CCAGACAGACGGATGAGGAACGGCTGGAGCTCAGACAGCAGATTGGCACCAAGCTCACCAGGCGGCTGAG
 CCAGAGACCAACTGCAGAGGAACTGGAACAGAGGAACATTTTGAAGCCTCGGAATGAACAAGAAGAACAG
 GAGGAGAAGCGGAAATCAAGAGGAGGCTGACTCGCAAGCTCAGCCAAAGGCCACAGTGGAGAAGTCC
 GGGAGAGGAAGATCCTTATCCGCTTCAGTACTACGTGGAAGTGGCAGATGCCAAAGACTATGACCGAAG
 GGCAGACAAGCCATGGACCCGCCTCACCCTGCAGACAAAGCTGCCATTCCGAAGGAACTCAATGAGTTT
 AAAAGTACCGAGATGGAAGTCCACGAGTAAAGTAGACACTTAACCAGTTTCATCGACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230577 representing NM_001302635
 Red=Cloning site Green=Tags(s)

MDYPKMDYFLDVESAHRLLDVESAQRFYFYSQGAQARRATLLLPTLMAASSEDIDRRPIRRVRSKSDTP
 YLAEARISFNLGAAEVERLAAMRSDSLVPGHTHTPPIRRRSKFANLGRIFKPKWKRKKSEKFKHTSAAL
 ERKISMRSREELIKRGVLKEIYDKDGLSISNEDDSLENGQSLSSQLSLPALSEMEPVMPRPDPCSYE
 VLQASDIMDGPDPGAPVKLPCLPVKLSPLPPKVLICMPVGGPELTLASYAAQSSQQAQVHHHTVLP
 SQMQHQLQYGSQGHLPSSTGTLPMHPSGCRMIDELNKTAMTMQRLESSEQRVPCSTSYHSSGLHSSDG
 ITKAGPMLPEIRQVPTVVEICDDNKENVPHEPDYEDSPCLYGREEEEEDEDDASLYTSSLAMKVCR
 KDSLAIKLSNRPSKRELEEKNILPRQTDEERLELRQQIGTKLTRRLSQRPTAELEQRNLIKPRNEQEEQ
 EEKREIKRRLTRKLSQRPTVEELRERKILIRFSDYVEVADAQDYDRRADKPWTRLTAADKAAIRKELNEF
 KSTEMEVHEL SRHLTRFHRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001302635

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_001302635.1](#), [NP_001289564.1](#)

RefSeq Size: 5299 bp

RefSeq ORF: 1743 bp

Locus ID: 218194

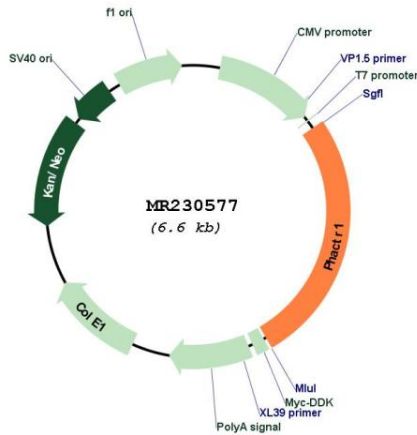
UniProt ID: [Q2M3X8](#)

Cytogenetics: 13 A4

MW: 66.7 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. Involved in the regulation of cortical neuron migration and dendrite arborization (PubMed:30256902). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230577