

Product datasheet for **MC220117**

Phactr1 (NM_198419) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phactr1 (NM_198419) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Phactr1
Synonyms:	9630030F18Rik; Rpel1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220117 representing NM_198419
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTATCCAAAATGGATTATTTTCTGGACGTTGAGTCTGCTCACAGACTCTTGGATGTGGAGTCGG
 CGCAGAGGTTCTTCTACAGTCAAGGAGCTCAAGCTCGCCGGGCGACCCTGCTCCTGCCTCCACATTAAT
 GGCGGTTCTTCGGAGGATGACATAGACCGCGGCCCATCAGAAGAGTCCGCTCCAAGAGCGACACGCCA
 TATCTCGCAGAGGCCAGGATCTCCTTTAACCTGGGGCAGCCGAGGAAGTGGAGAGGCTGGCAGCCATGC
 GTTCCGACTCGTGGTCCAGGTACGCACACCCCGCCATCCGGAGGAGGAGTAAGTTTGCCAACTGGG
 GAGGATTTTCAAACCTGGAATGGAGGAAGAAGAAAAGTGAAGGTTCAAGCACACGTCAGCAGCTCTG
 GAAAGGAAGATTCGATGAGGCAGAGCAGAGAGGAGCTGATCAAGAGAGGGGTCTTGAAGGAGATCTACG
 ATAAAGATGGAGAATCTCTATATCAAATGAAGATGACTCCCTGGAGAACGGACAGTCCCTGAGCTCCAG
 CCAACTCTTTGCTGCTGTGCGAAATGGAGCCTGTCCCAATGCCAGGGACCCATGCTCATATGAG
 GTGCTCCAAGCTTCAGACATTATGGATGGACCAGTGTCTGAAGAGAGTCCCTCTGCCAGTGAAGTCTGGAG
 TCCTCCTGTCCCAAGATCCTTCAGCCAAACCAGTTCTGTTCTGCCCCCAAAAAATCTGCTGCTTTCCC
 TGGAGACCATGAGGAGACCCAGTGAACAGTTGTCCCTTACAAGCAGCCCGGCCCTGCCTCCCAAA
 CCCACTGCCCGGATTGCCAACCACTTAACAGATCCTGGCGCCCTGTGAAATTGCCTTGTCTGCCAGTGA
 AACTGTGCGCTCCGCTACCTCAAAGAAAGTCTGATCTGTATGCCTGTAGGGGGGCCAGAGTCACTCT
 GGCATCCTATGCAGCCAGAAGAGCAGCCAGCAGGCCGTGGCCAGCACCACCACACCGTCTACCATCC
 CAGATGCAGCACCAGCTGCAGTATGGCAGTACGCGCCAGCATCTCCATCCTCCACCGGCACCTTGCCCA
 TGCACCCCTCAGGCTGCAGGATGATCGACGAGCTGAACAAGACACTGCCATGACATGCAGAGGCTGGA
 AAGCTCGAGCAACGAGTCCCTGTTCCAGTCTTACCACAGTCTGTTTGCACACTCAAGCGACGGCATC
 ACAAAAAGCAGGACCCATGGGCTTCCGGAATAAGACAAGTGCCAACTGTTGTGATTGAATGTGATGACA
 ATAAGGAAAATGTGCCTCATGAACCCGACTATGAAGACTCGCCCTGCCTGTATGGCCGGGAGGAGGGA
 AGAGGAGGAAGATGAAGATGATGACGCTCTTTGTACACCAGTCACTGGCCATGAAGGTGTGCAGGAAG
 GACTCCTTAGCCATCAAACCTCAGCAACAGGCCCTCTAAGCGAGAGCTAGAAGAAAAGAACATCTCCCA
 GACAGACGGATGAGGAACGGCTGGAGCTCAGACAGCAGATTGGCACCAGCTCACCAGGCGGCTGAGCCA
 GAGACCAACTGCAGAGGAACGGAACAGAGGAACATTTTGAAGCCTCGGAATGAACAAGAAGAACAGGAG
 GAGAAGCGGGAATCAAGAGGAGGCTGACTCGCAAGCTCAGCCAAAGGCCACAGTGAAGAACTCCGGG
 AGAGGAAGATCCTTATCCGCTTCACTGACTACGTGGAAGTGGCAGATGCCAAGACTATGACCGAAGGGC
 AGACAAGCCATGGACCCGCTCACCGCTGCAGACAAAGCTGCCATTTCGGAAGGAACATGAGTTTAA
 AGTACCGAGATGGAAGTCCACGAGTTAAGTAGACACTTAACCAGGTTTCATCGACCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_198419
- Insert Size:** 1950 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_198419.3](#), [NP_940811.2](#)

RefSeq Size: 5682 bp

RefSeq ORF: 1950 bp

Locus ID: 218194

Cytogenetics: 13 A4

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).