

Product datasheet for **MC228366**

Phactr1 (NM_001302635) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC228366 representing NM_001302635
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTATCCAAAATGGATTATTTTCTGGACGTTGAGTCTGCTCACAGACTCTTGGATGTGGAGTCGG
 CGCAGAGGTTCTTCTACAGTCAAGGAGCTCAAGCTCGCCGGGCGACCCTGCTCCTGCCTCCACATTAAT
 GGCGGTTCTTCGGAGGATGACATAGACC GGCGCCCATCAGAAGAGTCCGCTCCAAGAGCGACACGCCA
 TATCTCGCAGAGGCCAGGATCTCCTTTAACCTGGGGCAGCCGAGGAAGTGGAGAGGCTGGCAGCCATGC
 GTTCCGACTCGTGGTCCAGGTACGCACACCCGCCCATCCGGAGGAGGAGTAAGTTTGCCAACTGGG
 GAGGATTTTCAAACCTGGAATGGAGGAAGAAGAAAAGTGAAGGTTCAAGCACACGTACGAGCTCTG
 GAAAGGAAGATTCGATGAGGCAGAGCAGAGAGGAGCTGATCAAGAGAGGGTCTTGAAGGAGATCTACG
 ATAAAGATGGAGAACTCTATATCAAATGAAGATGACTCCCTGGAGAACGGACAGTCCCTGAGCTCCAG
 CCAACTCTTTGCTGCTCTGTGCGAAATGGAGCCTGTCCCAATGCCAGGGACCCATGCTCATATGAG
 GTGCTCCAAGCTTCAGACATTATGGATGGACCAGATCCTGGCGCCCTGTGAAATTCCTTGTCTGCCAG
 TGAAACTGTCGCCTCCGCTACCTCCAAAGAAAGTCCCTGATCTGTATGCCTGTAGGGGGGCCAGAGCTCAC
 TCTGGCATCCTATGCAGCCCAGAAGAGCAGCCAGCAGGCCGTGGCCAGCACCACACCGTCTACCA
 TCCCAGATGCAGCACCAGCTGCAGTATGGCAGTACGGCCAGCATCTCCCATCCTCCACCGGCACCTTGC
 CCATGCACCCCTCAGGCTGCAGGATGATCGACGAGCTGAACAAGACACTCGCCATGACGATGCAGAGGCT
 GGAAGCTCCGAGCAACGAGTCCCCTGTCCACGTCTTACCACAGTCTGGTTTGCACTCAAGCGACGGC
 ATCACAAAAGCAGGACCCATGGGCCTCCGGAATAAGACAAGTGCCAACTGTTGTGATTGAATGTGATG
 ACAAAGGAGGAAGATGAAGATGATGACGCCTCTTTGTACACCAGCTCACTGGCCATGAAGGTGTGCAGG
 AAGGACTCCTTAGCCATCAAACCTCAGCAACAGGCCCTTAAGCGAGAGCTAGAAGAAAAGAATCCTCC
 CCAGACAGACGGATGAGGAACGGCTGGAGCTCAGACAGCAGATTGGCACCAAGCTCACCAGGCGGCTGAG
 CCAGAGACCAACTGCAGAGGAACTGGAACAGAGGAACATTTTGAAGCCTCGGAATGAACAAGAAGAACAG
 GAGGAGAAGCGGAAATCAAGAGGAGGCTGACTCGCAAGCTCAGCCAAAGGCCACAGTGGAAAGAACTCC
 GGGAGAGGAAGATCCTTATCCGCTTCAGTACTCGTGAAGTGGCAGATGCCAAAGACTATGACCGAAG
 GGCAGACAAGCCATGGACCCGCCTCACCCTGCAGACAAAGCTGCCATTCCGAAGGAACTCAATGAGTTT
 AAAAGTACCGAGATGGAAGTCCACGAGTTAAGTAGACACTTAACCAGTTTCATCGACCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001302635
- Insert Size:** 1743 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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

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 (4) differs in the 5' UTR and 5' coding region and lacks an exon in the central coding region compared to variant 2. The encoded isoform (4) is shorter and has a distinct N-terminus compared to isoform 2.