

## Product datasheet for **MC228292**

### Phactr1 (NM\_001302636) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Phactr1 (NM_001302636) 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:** >MC228292 representing NM\_001302636  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGTTCGACTCGCTGGTCCCAGGTACGCACACCCCGCCATCCGGAGGAGGAGTAAGTTTGCCAACC  
 TGGGGAGGATTTTCAAACCTGGAAATGGAGGAAGAAGAAAAGTAAAAGTTCAAGCACACGTCAGCAGC  
 TCTGAAAAGGAAGATTTTCGATGAGGCAGAGCAGAGAGGAGCTGATCAAGAGAGGGTCTTGAAGGAGATC  
 TACGATAAAGATGGAGAAGTCTCTATATCAAATGAAGTACTCCCTGGAGAACGGACAGTCCCTGAGCT  
 CCAGCCAACTCTCTTTGCCTGCTCTGTCGAAATGGAGCCTGTCCAATGCCAGGGACCCATGCTCATA  
 TGAGGTGCTCCAAGCTTCAGACATTATGGATGGACCAGTGTCTGAAGAGAGTCCCTCTGCCAGTGAAGTCT  
 GGAGTCTCTGTCCAAGATCCTTCAGCCAAACAGTTCTGTTCTGCCCCCAAAAAAATCTGCTGCTT  
 TCCCTGGAGACCATGAGGAGACCCAGTAAACAGTTGTCCCTTACAAGCAGCCCCGGCCCTGCCTCC  
 CAAACCCACTGCCCGATTGCCAACCACTTAACAGATCCTGGCGCCCTGTGAAATTGCCTGTCTGCCA  
 GTGAAACTGTGCGCTCCGCTACCTCAAAGAAAGTCTGATCTGTATGCCTGTAGGGGGCCAGAGCTCA  
 CTCTGGCATCCTATGCAGCCAGAAGAGCAGCCAGCAGGCCGTGGCCAGCACCACCACCCGCTCTACC  
 ATCCCAGATGCAGCACCAGCTGCAGTATGGCAGTACGGCCAGCATCTCCCATCTCCACCGGCACCTTG  
 CCCATGCACCCCTCAGGCTGCAGGATGATCGACGAGCTGAACAAGACTCGCCATGACGATGCAGAGGC  
 TGGAAAGCTCCGAGCAACGAGTCCCCTGTTCCAGTCTTACCACAGTCTGGTTTGCACTCAAGCGACGG  
 CATCACAAAAGCAGGACCCATGGGCCTCCGGAATAAGACAAGTCCAAGTGTGATGAATGTGAT  
 GACAATAAGGAAAATGTGCCTCATGAACCCGACTATGAAGACTCGCCCTGCCTGTATGGCCGGGAGGAGG  
 AGGAAGAGGAGGAAGATGAAGATGATGACGCCTTTTGTACACCAGTCACTGGCCATGAAGGTGTGAG  
 GAAGGACTCCTTAGCCATCAAACCTCAGCAACAGGCCCTTAAGCGAGAGCTAGAAGAAAAGAACATCCTC  
 CCCAGACAGCAGGATGAGGAACGGCTGGAGCTCAGACAGCAGATTGGCACCAAGCTCACCAGGCGGTGA  
 GCCAGAGACCAACTGCAGAGGAAGTGAACAGAGGAACATTTTGAAGCCTCGGAATGAACAAGAAGAACA  
 GGAGGAGAAGCGGAAATCAAGAGGAGGCTGACTCGAAGCTCAGCCAAAGGCCACAGTGAAGAAGTCT  
 CGGGAGAGGAAGATCCTTATCCGCTTCACTGACTACGTGGAAGTGGCAGATGCCCAAGACTATGACCGAA  
 GGGCAGACAAGCCATGGACCCGCTCACCCTGCAGACAAAGCTGCCATTGGAAGGAAGTCAATGAGTT  
 TAAAGTACCGAGATGGAAGTCCACGAGTTAAGTAGACACTTAACCAGGTTTCATCGACCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001302636
- Insert Size:** 1674 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001302636.1, NP_001289565.1</u>
<b>RefSeq Size:</b>	5321 bp
<b>RefSeq ORF:</b>	1674 bp
<b>Locus ID:</b>	218194
<b>UniProt ID:</b>	<u>Q2M3X8</u>
<b>Cytogenetics:</b>	13 A4
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR, lacks exons in the 5' coding region, and uses a downstream start codon compared to variant 2. The resulting isoform (5) has a shorter N-terminus compared to isoform 2.</p>