

## Product datasheet for MC212681

### Phactr1 (NM\_001005748) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Phactr1 (NM_001005748) 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)
Fully Sequenced ORF:	>MC212681 representing NM_001005748 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGTATCTGCTAGGGCCGTGGAGCTCACCGCCCCAGGAGGATATGACATGGTCCAAAACTTTTCTTGG  
ATTTTTTCGTAGGCGGCTGAGCCAGAGACCAACTGCAGAGGAAGTGAACAGAGGAACATTTTGAAGCC  
TCGGAATGAACAAGAAGAACAGGAGGAGAAGCGGGAAATCAAGAGGAGGCTGACTCGCAAGCTCAGCCAA  
AGGCCCACAGTGAAGAAGTCCGGGAGAGGAAGATCCTTATCCGCTTCAGTGACTACGTGGAAGTGGCAG  
ATGCCCAAGACTATGACCGAAGGGCAGACAAGCCATGGACCCGCCTCACCCTGCAGACAAGCTGCCAT  
TCGGAAGGAAGTCAATGAGTTTAAAGTACCGAGATGGAAGTCCACGAGTTAAGTAGACACTTAACCAGG  
TTTCATCGACCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001005748
Insert Size:	435 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).


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<b>Components:</b>	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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001005748.2</u> , <u>NP_001005748.1</u>
<b>RefSeq Size:</b>	3849 bp
<b>RefSeq ORF:</b>	435 bp
<b>Locus ID:</b>	218194
<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 (3) differs in the 5' UTR, lacks exons in the 5' coding region, and uses an alternate start codon compared to variant 2. The resulting isoform (3) is shorter and has a distinct N-terminus compared to isoform 2.</p>