

## Product datasheet for **MR214430**

### Phactr1 (NM\_001005748) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Phactr1 (NM\_001005748) 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)  
**ORF Nucleotide Sequence:** >MR214430 representing NM\_001005748  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTATCTGCTAGGGCCGTGGAGCTCACCGCCCCAGGAGGATATGACATGGTCCAAAACTTTTCTTGG  
ATTTTTCCGTAGGCGGCTGAGCCAGAGACCAACTGCAGAGGAAGTGAACAGAGGAACATTTTGAAGCC  
TCGGAATGAACAAGAAGAACAGGAGGAGAAGCGGAAATCAAGAGGAGGCTGACTCGCAAGCTCAGCCAA  
AGGCCACAGTGAAGAAGTCCGGGAGAGGAAGATCCTTATCCGCTTCAGTGACTACGTGGAAGTGGCAG  
ATGCCAAGACTATGACCGAAGGGCAGACAAGCCATGGACCCGCTCACCCTGCAGACAAGCTGCCAT  
TCGGAAGGAAGTCAATGAGTTTAAAAGTACCGAGATGGAAGTCCAGAGTTAAGTAGACACTTAACCAGG  
TTTCATCGACCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR214430 representing NM\_001005748  
Red=Cloning site Green=Tags(s)

MYLLGPWSSPAPGGYDMVQKFLDFRRRLSQRPTAEELQQRNLIKPRNEQEEQEEKREIKRRLTRKLSQ  
RPTVEELRERKILIRFSDYVEVADAQDYDRRADKPWTRLTAADKAAIRKELNEFKSTEMEVHELNRHLTR  
FHRP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1513\\_e04.zip](https://cdn.origene.com/chromatograms/ja1513_e04.zip)



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001005748

ORF Size: 432 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\\_001005748.2](#), [NP\\_001005748.1](#)

RefSeq Size: 3849 bp

RefSeq ORF: 435 bp

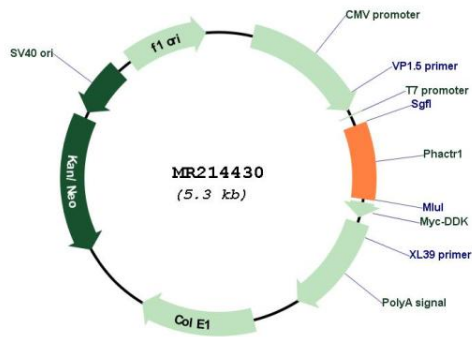
Locus ID: 218194

**Cytogenetics:** 13 A4

**MW:** 17.9 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 MR214430