

Product datasheet for **MG209331**

Phactr1 (BC061691) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phactr1 (BC061691) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phactr1
Synonyms:	9630030F18Rik; Rpel1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209331 representing BC061691
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGTTCTTCGGAGGATGACATAGACCGCGGCCCATCAGAAGAGTCCGCTCCAAGAGCGACACGC
 CATATCTCGCAGAGGCCAGGATCTCTTTAACCTGGGGCAGCCGAGGAAGTGGAGAGGCTGGCAGCCAT
 CGGTTCCGACTCGCTGGTCCCAGGTACGCACACCCCGCCATCCGGAGGAGGAGTAAGTTTGCCAACTG
 GGGAGGATTTTCAAACCTGAAATGGAGGAAGAAGAAAAGTGAAGGTTCAAGCACACGTGAGCAGCTC
 TGGAAAGGAAGATTTTCGATGAGGCAGAGCAGAGAGGAGCTGATCAAGAGAGGGTCTTGAAGGAGATCTA
 CGATAAAGATGGAGAATCTCTATATCAAATGAAGATGACTCCCTGGAGAACGGACAGTCCCTGAGCTCC
 AGCCAATCTCTTTCCTGCTCTGTTCGAAATGGAGCCTGTCCAATGCCAGGGACCCATGCTCATATG
 AGGTGCTCCAAGCTTTCAGACATTATGGATGGACCAGTGTCTGAAGAGAGTCCCTCTGCCAGTGTCTGG
 AGTCTCTGTCCAAGATCCTTCAGCCAAACAGTTCTGTTCCCTGCCCCCAAAAAATCTGCTGCTTTC
 CCTGGAGACCATGAGGAGACCCAGTGAACAGTTGTCCCTTACAAGCAGCCCCCGGCCCTGCCTCCCA
 AACCCACTGCCCGGATTGCCAACCACTTAACAGATCCTGGCGCCCTGTGAAATTGCCTGTCTGCCAGT
 GAAACTGTGCGCTCCGCTACCTCAAAGAAAGTCTGATCTGTATGCCTGTAGGGGGCCAGAGCTCACT
 CTGGCATCCTATGCAGCCAGAAGAGCAGCCAGGCGGTGGCCAGCACCACCACACCGTCTACCAT
 CCCAGATGCAGCACCAGTGCAGTATGGCAGTACGCGCCAGCATCTCCATCCTCCACCGGCACCTTGCC
 CATGCACCCCTCAGGCTGCAGGATGATCGACGAGCTGAACAAGACTCGCCATGACGATGCAGAGGCTG
 GAAAGCTCCGAGCAACGAGTCCCCTGTTCCACGTCTTACCACAGTCTGGTTTGCCTCAAGCGACGGCA
 TCACAAAAGCAGGACCCATGGCCCTCCGGAAATAGACAAGTCCAACCTGTTGTGATTGATGATGA
 CAATAAGGAAAAATGTGCCTCATGAACCCGACTATGAAGACTCGCCCTGCCTGTATGGCCGGGAGGAGG
 GAAGAGGAGGAAGATGAAGATGATGACGCTCTTTGTACACCAGCTCACTGGCCATGAAGGTGTGACGGA
 AGGACTCCTTAGCCATCAAACCTCAGCAACAGGCCCTTAAGCGAGAGCTAGAAGAAAAGAACATCTCCC
 CAGACAGACGGATGAGGAACGGCTGGAGCTCAGACAGCAGATTGGCACCAGCTCACCAGGCGGCTGAGC
 CAGAGACCAACTGCAGAGGAAGTGAACAGAGGAACATTTGAAGCCTCGGAATGAACAAGAAGAACAGG
 AGGAGAAGCGGAAATCAAGAGGAGGCTGACTCGCAAGCTCAGCCAAAGGCCACAGTGAAGAAGTCCG
 GGAGAGGAAGATCCTTATCCGCTCAGTACTACGTGGAAGTGGCAGATGCCAAGACTATGACCGAAGG
 GCAGACAAGCCATGGACCCGCTCACCCTGCAGACAAAGCTGCCATTGGAAGGAAGTCAATGAGTTTA
 AAAGTACCGAGATGGAAGTCCACGAGTTAAGTAGACACTTAACCAGGTTTCATCGACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209331 representing BC061691
 Red=Cloning site Green=Tags(s)

MAASSEDIDRRPIRRVRSKSDTPYLAEARISFNLGAAEVERLAAMRSDSLVPGTHTPPIRRRSKFANL
 GRIFKPWKWRKKSEKFKHTSAALERKISMRQSREELIKRVLKEIYDKDGELISNEDDSLENGQSLSS
 SQLSLPALSEMEPVMPRPDCSYEVLQASDIMDGPVSEESPSASESGVLLSQDPSAKPVLFLPPKSAAF
 PGDHEETPVKQLSLHKQPPALPPKPTARIANHLTDPGAPVKLPCLPVKLSPLPPKKVLCMPVGGPELT
 LASYAAQKSSQQAQHHHTVLPQMQHQLQYGSQHLPSSTGTLPMHPSGCRMIDELNKLAMTMQRL
 ESSEQRVPCSTSYHSSGLHSSDITKAGPMGLPEIRQVPTVVIIECDNKENVPHEPDYEDSPCLYGREEE
 EEEEDDDASLYTSSLAMKVCRKDSLAIKLSNRPSKRELEEKNILPRQTDEERLELRQIGTKLTRRLS
 QRPTAEELERQNILKPRNEQEEQEEKREIKRRLTRKLSQRPTVEELRERKILIRFSDYVEVADAQDYDRR
 ADKPWTRLTAADKAAIRKELNEFKSTEMEVHELNRHLTRFHRP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC061691

ORF Size: 1809 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: [BC061691](#), [AAH61691](#)

RefSeq Size: 5346 bp

RefSeq ORF: 1811 bp

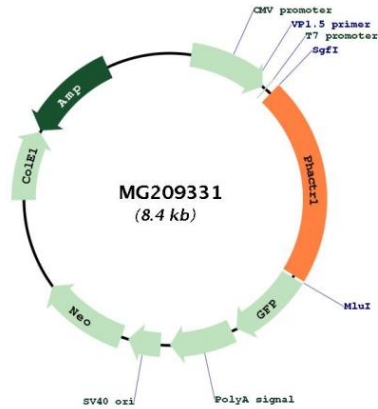
Locus ID: 218194

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]

Product images:



Circular map for MG209331