

Product datasheet for **RG234482**

PHACTR1 (NM_001242648) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PHACTR1
Synonyms:	DEE70; dJ257A7.2; EIEE70; RPEL; RPEL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG234482 representing NM_001242648
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGATTATCCCAAATGGATTATTTCTGGATGTAGAGTCTGCTCACAGACTCTTGGATGTTGAGTCAG
 CTCAAAGATTCTTCTACAGTCAAGGAGCTCAAGCTCGCCGGGCGACCTGCTCTGCCTCCACATTAAT
 GGCGGCATCCTCGAGGATGATATAGACCGGCGGCCATCCGGAGAGTGCCTCCAAGAGCGACACGCCG
 TACCTCGCAGAGGCCAGGATCTCCTTTAACCTGGGGGAGCTGAGGAAGTGGAGAGGCTGGCGGCGATGC
 GTTCTGACTCCCTCGTCCAGGCACCCACCCACCCATCCGAGGAGAAGTAAGTTTGCCAACTGGG
 AAGGATTTTCAAGCCTTGAAATGGAGGAAGAAGAAAGCGAAAGTTCAAACACACGTCAGCAGCCCTG
 GAAAGGAAATATCTATGAGGCAAAGCAGAGAAGAGCTGATAAAGCGAGGAGTCTGAAGGAAATCTATG
 AATAAGATGGGAACTCTCTATATCCAATGAAGAGGACTCCCTAGAAAATGGGCAGTCCCTGAGCTCCAG
 CCAGCTGTCTCTGCCTGCCCTGTCCGAAATGGAGCCAGTCCAATGCCAGGGATCCCTGCTCATATGAG
 GTGCTCCAACCGTCAGACATCATGGATGGGCCAGATCTGGCGCCCTGTGAAATTGCCTTGCTGCCAG
 TGAAACTGTGCGCTCCGCTACCTCCAAAGAAAGTCATGATCTGTATGCCCGTGGGGGGGCCAGACCTCTC
 ACTGGTGTCTACACAGCCAGAAGAGTGGCCAGCAGGGTGTGGCCAGCACCACCACACTGTCTGCC
 TCCAGATCCAGCACCAGTGCAGTACGGCAGCCAGGCCAGCACCCTCCCTCCACCACCGGCTCCCTCC
 CCATGCACCCCTCGGGCTGCAGAAATGATAGACGAGCTCAACAAAACGCTGGCCATGACCATGCAGAGGCT
 GGAAAGCTCTGAGCAGCGGTCCCCTGTTCCACTTCTTACCACAGCTCTGGGTGCACTCGGGTATGGG
 GTCACCAAAGCAGGACCTATGGGCTTCCAGAAATAGACAAGTGCCAAGTGTGTGATTGAATGTGATG
 ACAATAAGAAAAATGTGCCTCATGAGTCAGACTACGAAGACTCTTCTTGCCTGTATACAAGAGAAGAGGA
 GGAAAGAGGAGGAGACGAAGACGACGACAGCTCATTATACACCAGCTCCCTGGCCATGAAGGTCTGCAGG
 AAGGACTCCTTAGCCATCAAACCTCAGCAACAGGCCCTCCAAGCGAGAGCTGGAAGAAAAGAACATCCTTC
 CCAGGCAGACGGATGAGGAGCGGTGGAGCTGAGGCAACAGATTGGCACCAAGCTCACCAGCGCGCTGAG
 CCAGAGGCCAACTGCAGAGGAAGTGAACAGAGGAACATTTGAAACCTCGAATGAACAAGAGGAACAG
 GAGGAGAAGAGAGAGATCAAGAGGAGGCTAACCCGAAAGCTCAGTCAAAGGCCACCGGTGGAAGAGCTTC
 GGGAAAGAAAGATCCTCATCCGCTTCACTGACTACGTGGAGGTGGTGACGCTCAGGACTATGACCGCAG
 GGCAGATAAGCCGTGGACCCGCTCACCCTGCAGACAAGCTGCCATCCGAAAGGAGCTCAATGAATTC
 AAAAGCACTGAGATGGAAGTTCATGAATTGAGTAGACACTTAACAAGGTTTCACCGACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

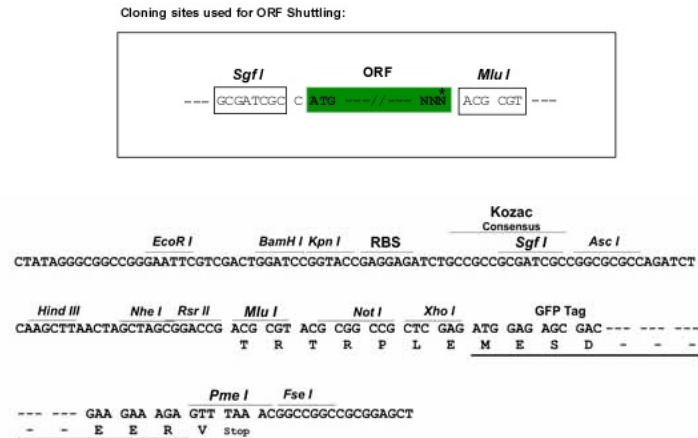
Protein Sequence: >RG234482 representing NM_001242648
 Red=Cloning site Green=Tags(s)

MDYPKMDYFLDVESAHRLLDVESAQRFFYSQGAQARRATLLLPPTLMAASSEDIDRRPIRRVRKSDTP
 YLAEARISFNLGAAEEVERLAAMRSDSLVPGTHTPPIRRRSKFANLGRIFKPWKWRKKSEKFKHTSAAL
 ERKISMRSREELIKRVLKEIYDKDGLSISNEEDSLENGQSLSSQSLPALSEMEPVMPRPDPCSYE
 VLQPSDIMDGPDPGAPVKLPCLPVKLSPLPPKVMICMPVGGPDLSVSYTAQKSGQGGVAQHHTVLP
 SQIQHQLQYGSHGQHL PSTTGS LPMHPSGCRMIDELNKTAMTMRLESSEQRVPCSTSYHSSGLHSGDG
 VTKAGPMGLPEIRQVPTVVI ECDDNKENVPHESDYEDSSCLYTREEEEEDEDDSSLYTSSLAMKVCR
 KDSLAIKLSNRPSKRELEEKNILPRQTD EERLELRQQIGTKLTRRLSQRPTAELEQRNILEKPRNEQEEQ
 EEKREIKRRLTRKLSQRPTVEELRERKILIRFSDYVEVADAQDYDRRADKPWTRLTAADKAAIRKELNEF
 KSTEMEVHEL SRHLTRFHRP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001242648

ORF Size: 1740 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001242648.4](#)

RefSeq Size: 2706 bp

RefSeq ORF: 1743 bp

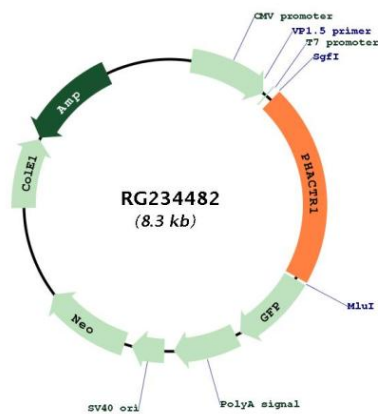
Locus ID: 221692

UniProt ID: [Q9C0D0](#)

Cytogenetics: 6p24.1

Gene Summary: The protein encoded by this gene is a member of the phosphatase and actin regulator family of proteins. This family member can bind actin and regulate the reorganization of the actin cytoskeleton. It plays a role in tubule formation and in endothelial cell survival. Polymorphisms in this gene are associated with susceptibility to myocardial infarction, coronary artery disease and cervical artery dissection. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Apr 2016]

Product images:



Circular map for RG234482