

Product datasheet for **RR206089**

Phactr2 (NM_214458) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phactr2 (NM_214458) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phactr2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206089 representing NM_214458
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCCAGACCTCGGTGTCCGCGCTGTCCCCGACGCCCGCAGCGTTGATGGACTAGACAAAGCCTCCA
 TAGCAAACCTCAGATGGCCCCCAGCAGGTTCCAGACACCTCCCTTCAAGAGAAAGGGGAACTCTCCAC
 CATTGGTAAAATCTTCAAGCCTTGGAAATGGAGGAAAGAGAAGACCAGTACAAGTTTAGAGAGACCTCA
 GCAGTATTAGAGAGGAAGATATCCACCAGACAAAGTAGAGAGGAGCTGATAAGAAGGGCCCTGCTTAAGG
 AATTGCCTGATCAAGATGGAGATGTAACAGTAACTTTGAAAATCAAACGGGCACATGATACACATCGG
 AGAGGAAGCTACCAAGAGGAGAATGTAGGAAACCTGAAGAAGGGAATGTCTCTGTGTGTGAGAAAGGA
 CCACCTCGAGAGGAACAGGCAGAAGAGAAGACAGCTGGTTCCTCTCACCCGAAGAAAACAACTGGTTCCA
 AAGCCTCATCCTCACCATCTGCTTCGTCCACCTCCTCTCATCCCAGAGGACCAAGGAGTCACTCACTGG
 CAAAGCAGGCGCGGTTGGGACCACAAGGGGCAAGAAAAGATTAGCAAGCAGCCAGCAGCGCGGCATCC
 CGACTGTCCCCAACACAGTCACTTCTGAAACGCTAGTCTTAAAGGAGAGCTCTCAGACACTGGGGTAG
 AGAGCCTCAAGCCAGAGGAACTGTTGCTGGAGCAGAGGAGGAGGCCACAGGCAAACCAAGGCGGTCTGT
 CGTCGCTCGCCACCTGTACAGTACCGCCATCTTACCTGCCCTTCTCTGCCCTGAGGATCCATGC
 ACTATTGCCTTGGACACTCCCATGGTCCTAGTCAGTGTGAGACCCACCTGCCCATCTCTGCCTTAGAAA
 CAAGTCCGCTCCCTGGGACTGAAGAACCAGCGAACAGAACCCTCCGTAAGCAGCCGGCTTAGGTGG
 GAGCCGAGAGCAGGCAAAATGTTTTACAACCAAGATGGGCTGGGAAAGGCTGGACCTCAATTGCTGACC
 CCTGGACAGATGGGAGACTCATTAGAATCCTTCAGTCCCCAGAGGATGAGGCCCAAGAGAGTACCAAG
 CCAATGACTCTGACTCGGATGGACCCATTTATACACAGATGATGATGATGAAGAAGATGATGATGA
 CAGCACTGGAGAAAGTGCAATTGGCAAGTAAGATCAGACGAAGGGATACACTCGCCATCAAACCTGGCAAC
 AGACCATCCAAGAAAGAGCTAGAGGACAAAAACATCCTGCAGCGAACGCTGAAGAAGAAAGGCAGGAGC
 TGCGACAACAGATAGGAACCAAGCTGGTCAGGAGACTCAGCCAGAGGCCAACCACTGAAGAATTAGAGCA
 GAGAAGCATCTTAAAACAAAAGAATGAAGAAGAGGAGCAGGAAGCAAAAATGGAACCAAACGGAGGCTC
 AGCCGGAAGCTCAGCCTAAGACCTACTGTGCCAGAGCTACAAGCCGAAGAATCTGCGGTTAATGAGT
 ATGTGGAAGTACAGATTCCCCGACTACGACAGAGCTGCGGACAAGCCCTGGGCCAGTTGACACCTGC
 GGACAAGGCAGCAATAAGGAAAGAACTAAATGAATTTAAAAGCACGGAATGGAAGTTCACGAAGAGAGT
 CGACAGTTTACAAGGTTTACCCTCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206089 representing NM_214458
 Red=Cloning site Green=Tags(s)

MGQTSVSALSPQPGSVLDKASIANSDGPPAGSQTPPFKRKGLSTIGKIFKPWKWRKEKTSDFRETS
 AVLERKISTRQSREELIRRGLLKELPDQGDVTNMFENSNGHMIHIGEEATQEENVGKPEEGNVSVCEKG
 PPREEQAEKTAGSSHPKKTGSKASSPSASSTSSHPRGPKESLTGKAGAVGTRGKKKISKQPAAS
 RLSPTVTSETSSLKGEISDTGVESLKPEETVAGAEETGKPKAVVVALPPVTVPPSSPALPLPPEDPC
 TIALDTPMVLVSDGPTLPIALETSPLPGTEEPANRTTPYSSTGLGGSREQAKCFITKDGLGKAGPQLL
 PGQMGSLESFSAPEDEAPREYQANDSDSDGPILYTDDEEDDDDDSTGESALASKIRRRDLAIKLG
 RPSKKELEDKNILQRTSEERQELRQIGTKLVRRLSQRPTTEELEQRSILKQKNEEEQEAQKMLKRRLL
 SRKLSLRPTVPELQARRILRFNEYVEVTDSPDYDRRADKPWARLTPADKAAIRKELNEFKSTEMEVHEES
 RQFTRFHRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

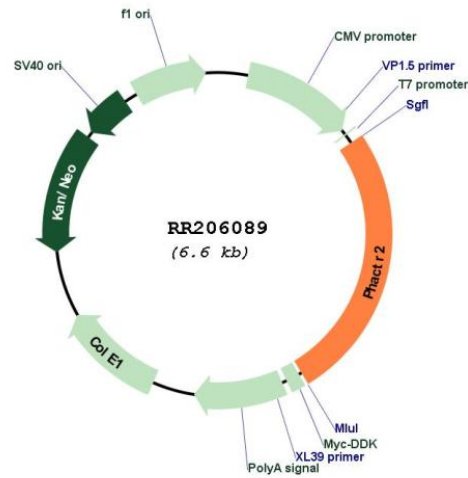
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_214458

ORF Size:	1707 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:	<ol style="list-style-type: none">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_214458.1 , NP_999623.1
RefSeq Size:	1783 bp
RefSeq ORF:	1710 bp
Locus ID:	308291
UniProt ID:	P62025
Cytogenetics:	1p13
MW:	62.2 kDa
Gene Summary:	member of a family of proteins that bind protein phosphatase 1 and cytoplasmic actin; may play a role in regulation of the actin cytoskeleton [RGD, Feb 2006]