

Product datasheet for **MC220277**

Phactr4 (NM_001161797) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phactr4 (NM_001161797) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Phactr4
Synonyms:	3110001B12Rik; AI527228; AW495572; C330013F19Rik; mKIAA4120; N28169
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220277 representing NM_001161797
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGACCCATCGGAAGAAGCAGAGCAGCCCTCTGAGACCCAGGCATGGGCATGGACAGTGTGGAAG
 CAGGGGACACAACACCTCCACCAAAGGAAAAGCAAGTTCTCAGCGTTAGGCAAGATCTCAAGCCGTG
 GAAATGGAGGAAAAAAAAAAGCAGTGATAGTTCAAAGAGACATCAGAAGATGGTGGAGATTAGGAAAG
 CTGAGCCATGCTGCATTAAGAAGCAGACACACCACCCCATAGGCAGTGCCAGGTCCTCTAGCCAGTCC
 TGGTAGAAGAAGGCCAGAGAGAAGTCTCAGGAACCTCACTCCAGAAGAGGAGTCAAAGAAGAGACTTGG
 CTCAACTGGAAGCCAGCCTAACTCTGAAGCCGAGCCTGGTCTGAGCATGCACCTAAGCAGCCTCTGCTG
 CCCCCAAGAGACCTTGTCTCTTCTGTGAAGCAAAGGAGTCCGGTGGCAGTACAGCAAGTCCG
 TCTCTCCACCTCTGGCTCTACCACCGTGACATCTGCTGCCACCACTGCTGCCACAGACATGACAAAGAC
 TGTTAAGTCTTTGTGGGCCCCACCCCGCTCCTGCCCGCCCCAGGACTCTGCCTGCTGCTCCTGCC
 AGTGCTAACACTGCTGCCACCACTACAGCCCTGCCAAGCAACCCCCATCCACCCCTAAACCAGCTC
 AGAGAAACAGCAACCCCATCATTGCTGAACTATCCCAAGCAATGAACAGTGGCACAGTGTGTCGAAACC
 ATCCCCACCTTGCCACCAAGAGAGGCATTCCATCAACTTCGATACCCAGCTTGGAGCCTGCTGCTTCG
 TTCACAATAAGACAGCAAAATGATCAAAGAGAAAAACTGTCTCTTTGTGTTTGGAAACCACCACTGATAA
 TCCCGCCTTCGTCCCATCACCCCACTGCCTACCCACATACCTCCCGAGCCTCCACGGTCCCCTCTAGT
 GCCTGCTAAGACTTTTCAAATTTGCCAGAGTTGAGTTTTCTCTTCTCAGATCTATTCCAGGACATT
 TCCAGCAGGAGGATCAGAAAACAGAAGTCCCCAAGAAGATACAGGATCAGAGCTTTGGGGAGTCCATA
 TACCCTCAGGCTGCCCCCACTCCCACTGCATATCCGAATTCAGCAGGCCCTTACCAGCCCTTCTCTGT
 GACCCCTCCCTTGAAGGCACTCACAGAGCCCATTCAGTCTTTTTGAGAACAGTGACAGCTTCTCCGAG
 GACACTGGTACCCTGGTTCGTACAGGTCACCTCCCATCACGATTGAGATGTTGAAAGTTCCAGATGATG
 AAGAGGAAGAGCAGACCTGCCGTTTGTGGAAGACGTGACGTCTACCTCAGCCACTCCTAGCCTACCACT
 GTGTCTGCGAGAGGAAGAGAAGGAGAGTACTCAGATTAGAGGGTCCCATTAAAGTACCAGATGAAGAA
 GAAGATGATGATGATGAAAGCCATCAGAGTGCCTGGCCAACAGAGTGAAGAGGAAGGACACGCTGG
 CAATGAAGCTGAGCAGCAGACCCAGTGAACCAGAGACCACTGAATTCTTGGCCTCGTAAAAGCAAGGA
 GGAGTGGAAATGAAATACGGCACCAGATCGGAACACGCTGATCCGGCGGCTGAGTCAAGAGACCAACAGCA
 GAAGAATTGGAGCAGCGAACATACTACAGCCTAAAAATGAAGCTGATCGCAAGCAGAGAAACGGGAAA
 TCAAGCGTCGCCTCACTAGAAAGCTCAGTCAAAGGCCAACTGTGGCTGAACTGCTTGCCAGGAAGATTCT
 GCGGTTTAAATGAGTATGTGGAAGTAACTGATGCTCATGACTATGACCGGCGAGCAGACAAACCATGGACC
 AAAGTACTCCTGCTGACAAGGCTGCCATAAGGAAAGAATTAATGAATTTAAGAGCTCGGAGATGGAGG
 TTCATGTAGACAGCAAACACTTTACACGCTACCATCGCCCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001161797
- Insert Size:** 2004 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).
- 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_001161797.1](#), [NP_001155269.1](#)

RefSeq Size: 4504 bp

RefSeq ORF: 2004 bp

Locus ID: 100169

UniProt ID: [Q501J7](#)

Cytogenetics: 4 D2.3

Gene Summary: Regulator of protein phosphatase 1 (PP1) required for neural tube and optic fissure closure, and enteric neural crest cell (ENCCs) migration during development. Acts as an activator of PP1 by interacting with PPP1CA and preventing phosphorylation of PPP1CA at 'Thr-320'. During neural tube closure, localizes to the ventral neural tube and activates PP1, leading to down-regulate cell proliferation within cranial neural tissue and the neural retina. Also acts as a regulator of migration of enteric neural crest cells (ENCCs) by activating PP1, leading to dephosphorylation and subsequent activation of cofilin (COF1 or COF2) and repression of the integrin signaling through the RHO/ROCK pathway.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter isoform (2) compared to isoform 1.