

Product datasheet for **MR210691**

Ptpra (NM_001163688) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpra (NM_001163688) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptpra
Synonyms:	Ptpa; Ptpalpha; Rptalpha; Rptpra; Rptralpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210691 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATTCCTGGTTCATTCTTGTCTGTTGGCAGTGGTCTAATACATGTTAGTGCCAACAATGCTACTA
CAGTTTACCTTTCTTAGGAACGACAAGATTAATTAACAACATCAACAACAGAATTGGCTAAGGAAGAGAA
TAAACCTCAAATTCAACCTCTTCAGTAATTTCTTTCTGTGGCACCAACATTCAGCCAAACCTGACT
CTGGAGCCACCTATGTGACTACTGTTAATTCTTCACACTCTGACAATGGGACCAGGAGGGCAGCCAGCA
CGGAATCTGGAGGCACTACCATTTCCCGAACGGAAGCTGGCTTATTGAGAACCAGTTACGGATGCCAT
AACAGAACCCTGGGAGGGGAACCTCAGCACTGCAGCAACCCTCCAGAAACCTTCCCCCGGCAGATGAG
ACACCAATTATTGCGGTGATGGTGGCCCTGTCTCTCTGCTAGTAATCGTGTATTATCATAGTCTGT
ACATGTTAAGGTTAAGAAATACAAGCAAGCTGGGAGTCATTCCAACCTTTCCGCTGTCAAATGGCCG
CACGGAGGATGTGGAGCCCAAAGTGTACCACTCTGGCCAGGTCCTCAAGCACAACAGGAAGTACCCA
CCACTGCCTGTGGACAAGCTGGAAGAGGAGATTAAACGGAGAATGGCTGATGACAATAAGCTCTTCAGAG
AAGAATCAACGCTCTCCCTGCTTGTCTATCCAGGCCACCTGTGAGGCTGCCTCCAAGGAAGAAAAACA
GGAAAAAACCGCTATGTAACATCCTGCCCTATGACCACTCTAGAGTGACCTGACACCTGTTGAAGGG
GTCCCAGATTCTGATTACATCAACGCTTCATTCATTAATGGCTACCAGGAAAAGAACAATTCATCGCTG
CACAAGGACAAAAGAAGAAACAGTGAATGACTTCTGGAGAATGATATGGGAACAAAACACAGCTACTAT
TGTCATGGTGACCAACCTGAAGGAGAGAAAGGAGTGAATGTGCCCAACTGGCCAGACCAAGGCTGC
TGGACCTATGGGAATGTCGTGTCTGTGCGAGGATGTGACTGTCTGGTGGACTACACAGTACGGAAAT
TCTGCATCCAGCAGGTGGGCGACTGACCAACAGGAAACCACAGCGCCTCATCACTCCACTTCAC
CAGCTGGCCAGACTTTGGGGTGCCTTTACCCCAATTGGCATGCTCAAGTTCCTCAAGAAGGTGAAGGCC
TGTAACCCTCAGTACGCAGGGGCTATCGTGGTCCACTGCAGTGCAGGTGAGGGCGCACTGGCACCTTTG
TTGTCATCGATGCCATGTGGACATGATGCATTGGAACGCAAAGTGGATGTATACGGGTTTGTGAGCCG
GATCCGGGCCAGCGCTGCCAGATGGTACAGACAGACATGCAGTACGTCTTCATATACCAGGCCCTTCTG
GAGCATTATCTGTATGGGGACACAGAAGTGAAGTACTTCTAGAAACCCACCTACAAAAATTTATA
ACAAGATCCCAGGACGAGCAACAACGGGTTAGAGGAGGAGTTAAGAAATTAACCTCAATCAAATCCA
GAATGACAAGATGCGCACGGGAAACCTCCAGCCAACATGAAGAAGAACCAGGTTTTACAGATCATTCCA
TATGAATTTAACAGAGTATCATTCCAGTCAAACGAGGCGAAGAGAACACAGACTATGTGAACGCATCCT
TCATTGATGGATACCGGCAGAAAGACTCCTACATTGCCAGCCAGGGCCCTTCTCCACACGATTGAGGA
CTTCTGGCGAATGATCTGGGAGTGAAGTCTGTTCTATCGTAATGCTGACAGAAGTGAAGAGAGAGGC
CAGGAGAAGTGTGCCAGTACTGGCCATCTGATGGCCTGGTGTCTATGGAGACATCACAGTTGAGCTGA
AGAAGGAGGAGGAATGTGAAAGCTACACTGTCCGAGACCTCCTGGTCACCAACACCAGGGAGAACAAGAG
TCGGCAAATCCGGCAGTCCACTCCACGGCTGGCCTGAGGTGGGCATCCCAGCGACGGCAAGGGCATG
ATCAACATCATTGCAGCAGTGCAGAAGCAGCAGCAGTCCGGGAACCATCCCATCACTGTGCACTGCA
GTGCCGGGGCAGGACGGACAGGAACCTTCTGTGCCTTGAACAGTCTGGAACGTGTGAAAGCAGAAGG
AATTTTATAGTGTCTTCAAACCTGTCAAGAGCCTGCGGCTGCAGAGGCCACACATGGTCCAGACACTGGAA
CAGTATGAATTCGCTACAAGGTGTACAGGAGTACATTGACGCCCTTTTCAGATTATGCCAACTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210691 protein sequence
 Red=Cloning site Green=Tags(s)

MDSWFI LVLFGSGLIHVSANNATTVSPSLGTTTRLIKTSTTELAKEENKTSNSTSSVISLSVAPTFSPNLT
 LEPTYVTTVNSSHSDNGTRRAASTESGGTTISPNGSWLIENQFTDAITEPWEGNSSTAATTPETFPPEDE
 TPIIAVMVALSSLLVIVFIIIVLYMLRFKYYKQAGSHSNSFRLSNGRTEDEVQSVPLLARSPSTNRKYP
 PLPVDKLEEEINRRMADDNKLFREEFNALPACPIQATCEAASKEENKEKNRYVNILPYDHSRVHLPVEG
 VPDSYINASFINGYQEKNFIAAQGPKEETVNDFWRMIWEQNTATIVMTNLKERKECKAQYWPDQGC
 WTYGNVRVSVEDVTVLVDYTVRKFICQQVGDVTNRKPQRLITQFHFTSWPDFGVPFTPIGMLKFLKVKVA
 CNPQYAGAI VVHCSAGVGRGTGFVVIDAMLDMMSERKVDVYGFVSRIRARQCMVQTMQYVFIYQALL
 EHYLYGDTELEVTSLETHLQKIYNKIPGTSNNGLEEEFKKLTSIKIQNDKMRTGNLPANMKNRVLQIIP
 YEFNRVIIPVKRGEENTDYVNASFIDGYRQKDSYIASQGPLLHTIEDFWRMIWEWKSCSIVMLTELEERG
 QEKCAQYWPSDGLVSYGDITVELKKEEECESYTVRDLLVTNTRENKSRQIRQFHFGWPEVGI PSDGKGM
 INIIAAVQKQQQSGNHPITVHCSAGAGRTGTF CALSTVLERVKAEGILDVFTVKSLRLQRPHMVQTL
 QYEFQYKVVQEYIDAFSDYANFK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001163688

ORF Size: 2379 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_001163688.1](#), [NP_001157160.1](#)

RefSeq Size: 3501 bp

RefSeq ORF: 2382 bp

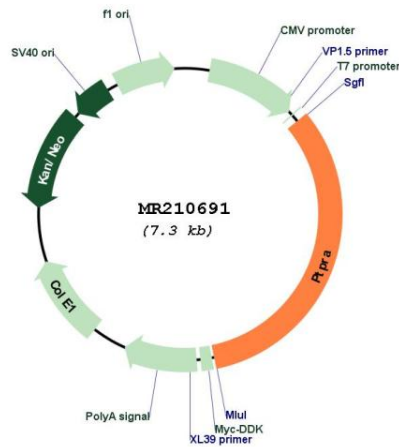
Locus ID: 19262

Cytogenetics: 2 63.23 cM

MW: 89.8 kDa

Gene Summary: Tyrosine protein phosphatase which is involved in integrin-mediated focal adhesion formation (PubMed:22801373). Following integrin engagement, specifically recruits BCAR3, BCAR1 and CRK to focal adhesions thereby promoting SRC-mediated phosphorylation of BRAC1 and the subsequent activation of PAK and small GTPase RAC1 and CDC42 (PubMed:22801373).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210691