

Product datasheet for **MC220749**

Ptpra (NM_001163688) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC220749 representing NM_001163688
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTCCTGGTTCATTCTTGTCTGTTGGCAGTGGTCTAATACATGTTAGTGCCAACAATGCTACTA
 CAGTTTACCTTTCTTAGGAACGACAAGATTAATTAACAACATCAACAACAGAATTGGCTAAGGAAGAGAA
 TAAAACCTCAAATTCAACCTCTTCAGTAATTTCTTTCTGTGGCACCAACATTCAGCCAAACCTGACT
 CTGGAGCCACCTATGTGACTACTGTTAATTCTTCACACTCTGACAATGGGACCAGGAGGGCAGCCAGCA
 CGGAATCTGGAGGCACTACCATTTCCCGAACGGAAGCTGGCTTATTGAGAACCAGTTACGGATGCCAT
 AACAGAACCCTGGGAGGGGAACCTCAGCACTGCAGCAACCCTCCAGAAACCTTCCCCCGGCAGATGAG
 ACACCAATTATTGCGGTGATGGTGGCCCTGTCTCTCTGCTAGTAATCGTGTATTATCATAGTTCTGT
 ACATGTTAAGGTTAAGAAATACAAGCAAGCTGGGAGTCATTCCAACCTTTCCGCTGTCAAATGGCCG
 CACGGAGGATGTGGAGCCCAAAGTGTACCACTCTGGCCAGGTCCTCAAGCACAACAGGAAGTACCCA
 CCACTGCCTGTGGACAAGCTGGAAGAGGAGATTAAACGGAGAATGGCTGATGACAATAAGCTCTTCAGAG
 AAGAATCAACGCTCTCCCTGCTTGTCTTATCCAGGCCACCTGTGAGGCTGCCTCCAAGGAAGAAAACAA
 GGAAAAAACCGCTATGTAACATCCTGCCCTATGACCACTCTAGAGTGACCTGACACCTGTTGAAGGG
 GTCCCAGATTCTGATTACATCAACGCTTCATTCATTAATGGCTACCAGGAAAAGAACAATTCATCGCTG
 CACAAGGACAAAAGAAGAAACAGTGAATGACTTCTGGAGAATGATATGGGAACAAAACACAGCTACTAT
 TGTGATGGTGACCAACCTGAAGGAGAGAAAGGAGTGAATGTGCCCAACTGGCCAGACCAAGGCTGC
 TGGACCTATGGGAATGTCGTGTCTGTGCGAGGATGTGACTGTTCTGGTGGACTACACAGTACGGAAAT
 TCTGCATCCAGCAGGTGGGCGACGTGACCAACAGGAAACCACAGCGCCTCATCACTCCACTTCAC
 CAGCTGGCCAGACTTTGGGGTGCCTTTCACCCCAATTGGCATGCTCAAGTTCCTCAAGAAGGTGAAGGCC
 TGTAAACCCTCAGTACGCAGGGGCTATCGTGGTCCACTGCAGTGCAGGTGTAGGGCGCACTGGCACCTTTG
 TTGTCATCGATGCCATGTGGACATGATGCATTGGAACGCAAAGTGGATGTATACGGGTTTGTGAGCCG
 GATCCGGGCCAGCGCTGCCAGATGGTACAGACAGACATGCAGTACGCTTCATATACCAGGCCCTTCTG
 GAGCATTATCTGTATGGGGACACAGAAGTGAAGTACTTCTAGAAACCCACCTACAAAAATTTATA
 ACAAGATCCCAGGGACGAGCAACAACGGGTTAGAGGAGGAGTTTAAAGAAATTAACCTCAATCAAAATCCA
 GAATGACAAGATGCGCACGGGAAACCTCCAGCCAACATGAAGAAGAACCAGGTTTACAGATCATTCCA
 TATGAATTTAACAGAGTATCATTCCAGTCAAACGAGGCGAAGAGAACACAGACTATGTGAACGCATCCT
 TCATTGATGGATACCGGCAGAAAGACTCCTACATTGCCAGCCAGGGCCCTTCTCCACACGATTGAGGA
 CTCTGGCGAATGATCTGGGAGTGAAGTCTGTTCTATCGTAATGCTGACAGAAGTGAAGAGAGAGGC
 CAGGAGAAGTGTGCCAGTACTGGCCATCTGATGGCCTGGTGTCTATGGAGACATCACAGTTGAGCTGA
 AGAAGGAGGAGGAATGTGAAAGCTACACTGTCCGAGACCTCCTGGTCACCAACACCAGGGAGAACAAGAG
 TCGGCAAAATCCGGCAGTTCCTTCCACGGCTGGCCTGAGGTGGGCATCCCCAGCGACGGCAAGGGCATG
 ATCAACATCATTGCAGCAGTGCAGAAGCAGCAGCAGCAGTCCGGGAACCATCCCATCACTGTGCACTGCA
 GTGCCGGGGCAGGACGGACAGGAACCTTCTGTGCCTTGAACACAGTCTTGAACGTGTGAAAGCAGAAGG
 AATTTTAGATGTCTTCAAACCTGTCAAGAGCCTGCGGCTGCAGAGGCCACACATGGTCCAGACACTGGAA
 CAGTATGAATTCGCTACAAGGTGGTACAGGAGTACATTGACGCCCTTTTCAGATTATGCCAACTCAAGT
 GA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001163688
Insert Size: 2382 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:	<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:	<u>NM_001163688.1</u> , <u>NP_001157160.1</u>
RefSeq Size:	3501 bp
RefSeq ORF:	2382 bp
Locus ID:	19262
Cytogenetics:	2 63.23 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.</p>