

Product datasheet for **MC202081**

Ptpa (NM_138748) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpa (NM_138748) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptpa
Synonyms:	2610042B21Rik; C77440; N28142; Ppp2r4; PR53
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC052852 sequence for NM_138748
AAGAGGTAATCCCACCGCATGGCTGCCGCCTTCGCGCAGTACTGTAATTCTCGGCTCCGGTCTAG
CCAGTCAGCGCTCATTTCCCTGCTGGAAGCTTGGCGGAGCCGGGGAGAGCTGCGGGTGAACATTGAGAG
GGACCGGCGAGCATCCGCTCCGGCTCCTCACGGAGAAGATGGCCGAGGGCGAGCGGCAGCCGCCCAGA
TTCTTCAGAAGAGACCCCTCCAACACTACTCAGAACCTTATCATTCCAAAAAAGGAGATCCACACAGTTCCA
GATATGGGCAAAATGGAAGCGCTCTCAGGCATATGCTGACTACATTTGGCTTCATCCTTACCCTCAATGAAG
GTGTGAAGGGGAAGAAGCTGACCTTCGACTACAAAGTCTCTGAGGCCATCGAGAAGCTGGTGGCATTCT
TGATACGCTGGATAGGTGGATTGATGAAACCCCGCCAGTGGACCAGCCTTCCCGTTTGGGAACAAAGCC
TACAGAACCTGGTATGCCAACTTGATCAGGAAGCAGAAAACTTGGTGGCCACAGTGGTCCCCACCCACC
TGGCTGCTGCTGCCTGAAAGTGGCAGTTTACCTGAAGGAGGCTGTGGGAACTCCACACGAATTGACTA
TGGCACAGGGCATGAGGCTGCCTTTGCTGCTTCTGTTGTCTCTGCAAGATTGGTGTACTCCGGGTG
GACGACCAGTGGCTATTGTCTCAAGGTGTTTATAGGTATCTTGAGGTTATGCGGAAGTTCAGAGA
CATAACAGGATGGAGCCTGCAGGCAGCCAGGGCGTATGGGGTCTGGATGACTTCCAGTTTCTGCCCTCAT
CTGGGGCAGCTCACAGCTCATAGACCACCCACCTGGAGCCAGACATTCGTGGATGAGAAGGGGGT
AGCGAGAACCACAAGGACTACATGTTTCCAGTGCATCTGTTTCACTGAGATGAAGACTGGCCCT
TTGCGGAACACTCAACAGCTGTGGAACATCAGTGTGTCCCTCCTGGTCTAAAGTGAACCAGGGCCT
CATTGCAATGTATAAGGCAGAGTGCCTGGAGAAGTTCCTGTGATCCAGCACTTCAAGTTCGGGAGCCTG
CTGCCATCCATCCCGTCACATCAGGCTAGGAGAGGCTGAACTACCAGAGCCACCCTGGCCAGGTTCTG
TGCTCTCTGTGACCCAGCACCCCTCCCGCCACCTTCTGTTCTTCTGTTTATGAGAGGCTGTTTACTG
AGATGGGTGCTAAGCAGGGCCTGAGTTGGGGAAATGACCACAGTGTGCCAGTTTTTACTGTCCTCCG
TCTGGTGGCCGAGTAAGAAGAGAGGGGCTGGACGTGGTCCCGGCCCTGCCATCCCTGTGCTCCTGCT
TCCTCCACGGTCAAGCCATGTGGAGGAGACAAGGACACCCTGCTTTGTCATTGCTCCCTTTCCCTC
CCATGATGTAATGGTTCCCTCATTAAGAGCAGGAGTTCCTGCCTCCAGGGCCGGTGGTGGTTCCCT
GCTAGCTGTGTTCCACTGGGTATCTGCTATGGAGCTGAAGGGTGGGCTGTCATCAGCTGTTGGGAGGGC
TGGGGTTGGGGAGGTTGGTTTGTAGGGCCATGGATGATGAGGCTGGTCTTCTCAAGGTACCATCTAG
GCCCTGGGGACCTGTGCCATCCTCATGCTGGCTTTGTTCCCTGGCCCTTGGCTTTGCTAGGTTTCTG
ACTGTTAACATAACACTCCCTTCTGGGGATAGCCTAGCTATGGAAGCTGCCCTGGGCTCTGGGAAAG
CCCATTGCTTGGGTGAGATCTGACTTCCAGAGCTGTCAAGCAGGGAGAGGAAGAGACCCCGGGAGGCGAG
TAGGACTGTTGTGCTGTGGAGAACCTAGTTTTCTCCAGTCACTCAGGCCTGCTGATTCTGCTGCCTC
TGCTGCTGAGTGTCTGAAGCTTCCCCGAGGCCCTGGCTTGGCTGCTCCGCTCCCTTGGGTCGGTTTGTG
GCTCGTGTGGGAGAGCAAGAAGGTAGCAGCCCCCTCCTCCACTTCCCTCTGTGAGATGAGGGAAGTGC
TGGCCTGGGCCTAGGCATAGACTCAGAATGGGTAGGGCTGCTAAGGGGACCTAGCCACAGTCACCCAGTTT
TCTCTCAGCGTGTGGCTGAACTGGAACCTGCAGGCTTTCCTGTCCCACTTGGGCCTGCCCTTCTTACTG
CCCATCCTGTGTTTGTGCCCGCTTAGCTTTGTGGAGTGGACACTGAGAAGCACAACCTCAGGGGCTTGGCC
AGGAATTAACATAGGTCTGGGCAGAGCGGGGATTGAAGTCATCAGAGTCACAGGCAGTTCCCCAGGAAAA
GCCAGTGCCAGCTTCTTCCAGGGCCAGGCCACTGCCTTCTGGCTCCCTTCCCTGTCCCTGCGTCCCC
AGCCCTGCGCCTTCTTGGTATTTGGATTAAAGCCTCTGTTTTACACCTGAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_138748
- Insert Size:** 972 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:	BC052852 , AAH52852
RefSeq Size:	2529 bp
RefSeq ORF:	972 bp
Locus ID:	110854
UniProt ID:	P58389
Cytogenetics:	2 21.71 cM
Gene Summary:	<p>PPlases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Acts as a regulatory subunit for serine/threonine-protein phosphatase 2A (PP2A) modulating its activity or substrate specificity, probably by inducing a conformational change in the catalytic subunit, a proposed direct target of the PPlase. Can reactivate inactive phosphatase PP2A-phosphatase methylesterase complexes (PP2A(i)) in presence of ATP and Mg(2+). Reversibly stimulates the variable phosphotyrosyl phosphatase activity of PP2A core heterodimer PP2A(D) in presence of ATP and Mg(2+) (in vitro). The phosphotyrosyl phosphatase activity is dependent of an ATPase activity of the PP2A(D):PPP2R4 complex. Is involved in apoptosis; the function appears to be independent from PP2A (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice junction compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p>