

Product datasheet for **RC223746**

PTP alpha (PTPRA) (NM_080840) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTP alpha (PTPRA) (NM_080840) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTP alpha
Synonyms:	HEPTP; HLPR; HPTPA; HPTPalpha; LRP; PTPA; PTPRL2; R-PTP-alpha; RPTPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC223746 representing NM_080840
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTCCTGGTTCATTCTTGTCTGCTCGGCAGTGGTCTGATATGTGTCACTGCAACAAATGCTACCA
 CAGTTGCACCTTCTGTAGGAATTACAAGATTAATTAACATCAACGGCAGAACCAGTTAAAGAAGAGGC
 CAAAACCTCAAATCCAACCTCTCACTAACTTCTTTTCTGTGGCACCAACATTCAGCCAAATATAACT
 CTGGGACCCACTATTTAACACTGTCAATTTCTCAGACTCTGACAATGGGACCACAAGAACAGCAAGCA
 CCAATTCTATAGGCATTACAATTTACCAAATGGAACGTGGCTTCCAGATAACCAGTTACGGATGCCAG
 AACAGAACCCTGGGAGGGGAATTCAGCACCGCAGCAACCCTCCAGAACTTTCCCTCTTCAGATGAG
 ACACCAATTATTGCGGTGATGGTGGCCCTGTCTCTCTGCTAGTATCGTGTATTATCATAGTTTTGT
 ACATGTTAAGGTTAAGAATAACAAGCAAGCTGGGAGCCATTCCAATTTTCCGCTTATCCAACGGCCG
 CACTGAGGATGTGGAGCCCAGAGTGTGCCACTTCTGGCCAGATCCCAAGCACAACAGGAAATACCCA
 CCCTGCCCGTGACAAGCTGGAAGAGGAAATTAACCGGAGAATGGCAGACGACAATAAGCTCTTACGGG
 AGGAATCAACGCTCTCCCTGCATGTCTATCCAGGCCACTGTGAGGCTGCTTCCAAGGAGGAAAAACA
 GGAAAAAATCGATATGTAAACATCTTGCCCTATGACCACTCTAGAGTCCACCTGACACCGGTTGAAGGG
 GTTCCAGATTCTGATTACATCAATGCTTCATTCATCAACGGTTACCAAGAAAAGAACAATTCATTGCTG
 CACAAGGACAAAAGAAGAAACGGTGAATGATTTCTGGCGGATGATCTGGGAACAAAACAGCCACCAT
 CGTCATGGTTACCAACCTGAAGGAGAGAAAGGAGTGAAGTGCGCCAGTACTGGCCAGACCAAGGCTGC
 TGGACCTATGGGAATATTCGGGTGTCTGTAGAGGATGTACTGTCTGGTGGACTACACAGTACGGAAAT
 TCTGCATCCAGCAGGTGGGCGACATGACCAACAGAAAGCCACAGCGCCTCATCACTTCCACTTTAC
 CAGCTGGCCAGACTTTGGGGTGCCTTTTACCCCGATCGGCATGCTCAAGTTCTCAAGAAGGTGAAGGCC
 TGTAAACCCTCAGTATGCAGGGCCATCGTGGTCCACTGCAGTGCAGGTGTAGGGGTACAGGTACCTTTG
 TCGTCATTGATGCCATGTGGACATGATGCATACAGAACGGAAGGTGGACGTGTATGGCTTTGTGAGCCG
 GATCCGGGCACAGCGCTGCCAGATGGTGCAACCAGATGTCAGTATGTCTTCATATACCAAGCCCTTCTG
 GAGCATTATCTCTATGGAGATACAGAACTGGAAGTGAACCTCTAGAAACCCACCTGCAGAAAATTTACA
 AAAAAATCCAGGGACCAGCAACAATGGATTAGAGGAGGAGTTAAGAAGTTAACATCAATCAAAATCCA
 GAATGACAAGATGCGGACTGAAACCTTCCAGCCAACATGAAGAAGAACCAGTGTTCACAGATCATTCCA
 TATGAATCAACAGAGTATCATTCCAGTTAAGCGGGGCGAAGAGAATACAGACTATGTGAACGCATCCT
 TTATTGATGGCTACCGCAGAAGGACTCCTATATCGCCAGCCAGGGCCCTTCTCCACACAATTGAGGA
 CTCTGGCGAATGATCTGGGAGTGGAAATCCTGTCTATCGTGATGCTAACAGAAGTGGAGGAGAGAGGC
 CAGGAGAAGTGTGCCAGTACTGGCCATCTGATGGACTGGTGTCTATGGAGATATTACAGTGGAACTGA
 AGAAGGAGGAGGAATGTGAGAGCTACACCGTCCGAGACCTCCTGGTCACCAACACCAGGGAGAATAAGAG
 CCGGCAGATCCGGCAGTTCCTTCCATGGCTGGCCTGAAGTGGGCATCCCCAGTACCGGAAAGGGCATG
 ATCAGCATCATCGCCCGGTGCAGAAGCAGCAGCAGCAGTACAGGAACCCACCCATCACCCTGCACTGCA
 GCGCCGGGCAGGAAGGACGGGGACCTTCTGTCCCTGAGCACCTCCTGGAGCGTGTGAAAGCAGAGGG
 GATTTTGGATGTCTTCCAGACTGTCAAGAGCCTGCGGCTACAGAGGCCACACATGGTCCAGACACTGGAA
 CAGTATGAGTTCTGCTACAAGGTGGTGCAGGAGTATATTGATGCATTCTCAGATTATGCCAACTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223746 representing NM_080840
Red=Cloning site Green=Tags(s)

MDSWFILVLLGSGLICVSANNATTVAPSVGITRLINSSTAEPVKEEAKTSNPTSSLTSLSVAPTFSPNIT
LGPTYLTTVNSSSDNGTTRTASTNSIGITISPNGTWLPDNQFTDARTEPWEGNSSTAATTPETFPPSDE
TPIIAVMVALSSLLVIVFIIIVLYMLRFKYYKQAGSHSNSFRLSNGRTEDEVQSVPLLARSPSTNRKYP
PLPVDKLEEEINRRMADDNKLFREEFNALPACPIQATCEAASKEENKEKNRYVNILPYDHSRVHLPVEG
VPDSYINASFINGYQEKNFIAAQGPKEETVNDFWRMIWEQNTATIVMTNLKERKECKAQYWPDQGC
WTYGNIRVSVEDVTVLVDYTVRKFQIQVGDMTNRKPQRLITQFHFTSWPDFGVPFPIGMLKFLKVKVA
CNPQYAGAIVVHCSAGVGRGTGFVVIDAMLDMHTEKVDVYGFVSRIRAQRQCMVQTMQYVFIYQALL
EHLYGDTELEVTSLLEHLQKIYNKIPGTSNNGLEEEFKLTSIKIQNDKMRTGNL PANMKKNRVLQIIP
YEFNRVIIPVKRGEENTDYVNASFIDGYRQKDSYIASQGPLLHTIEDFWRMIWEWKSCSIVMLTELEERG
QEKCAQYWPSDGLVSYGDITVELKKEEECESYTVRDLLVTNTRENKSRQIRQHFHGWPEVGIIPSDGKGM
ISIIAAVQKQQQSGNHPITVHCSAGAGRTGTFICALSTVLERVKAEGILDVFTVKSLRLQRPHMVQTL
QYEFQYKVVQEYIDAFSDYANFK

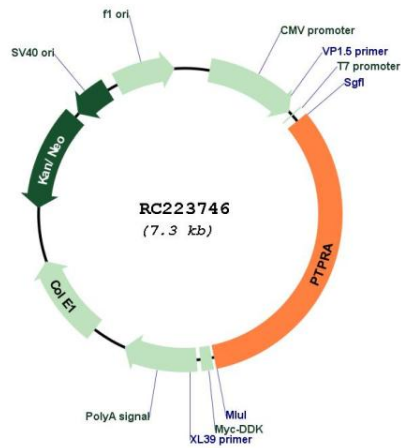
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6522_g01.zip

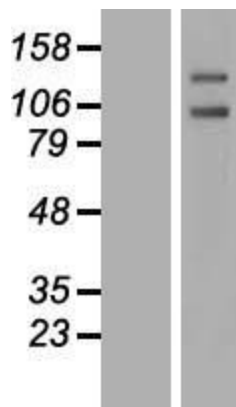
Restriction Sites: Sgfl-Mlul

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_080840.1 , NP_543030.1
RefSeq Size:	3279 bp
RefSeq ORF:	2382 bp
Locus ID:	5786
UniProt ID:	P18433
Cytogenetics:	20p13
Domains:	Y_phosphatase, PTPc_motif
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
MW:	87.6 kDa
Gene Summary:	<p>The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. This PTP has been shown to dephosphorylate and activate Src family tyrosine kinases, and is implicated in the regulation of integrin signaling, cell adhesion and proliferation. Three alternatively spliced variants of this gene, which encode two distinct isoforms, have been reported. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC223746



Western blot validation of overexpression lysate (Cat# [LY409009]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223746 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).