

Product datasheet for **RG204392**

PTP alpha (PTPRA) (NM_080841) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTP alpha (PTPRA) (NM_080841) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTP alpha
Synonyms:	HEPTP; HLPR; HPTPA; HPTPalpha; LRP; PTPA; PTPRL2; R-PTP-alpha; RPTPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG204392 representing NM_080841
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATTCCTGGTTCATTCTTGTCTGCTCGGCAGTGGTCTGATATGTGTCACTGCCAACATGCTACCA
CAGTTGCACCTTCTGTAGGAATTAACAAGATTAATTAACATCAACGGCAGAACCAGTTAAAGAAGAGGC
CAAACTTCAAATCCAATCTTCACTAACTTCTTTTCTGTGGCACCAACATTCAGCCAAATATAACT
CTGGGACCCACTATTTAACACTGTCAATTTTCAGACTCTGACAATGGGACCACAAGAACAGCAAGCA
CCAATTCATAGGCATTACAATTCACCAAATGGAACGTGGCTTCCAGATAACCAGTTCCAGGATGCCAG
AACAGAACCCTGGGAGGGGAATTCAGCACCGCAGCAACCCTCCAGAACTTTCCCTCCTTCAGATGAG
ACACCAATTATTGCGGTGATGGTGGCCCTGTCTCTCTGCTAGTATCGTGTATTATCATAGTTTTGT
ACATGTTAAGGTTAAGAATAACAAGCAAGCTGGGAGCCATTCCAATTTTCCGCTTATCCAACGGCCG
CACTGAGGATGTGGAGCCCAGAGTGTGCCACTTCTGGCCAGATCCCAAGCACAACAGGAAATACCCA
CCCTGCCCGTGACAAGCTGGAAGAGGAAATTAACCGGAGAATGGCAGACGACAATAAGCTCTTACGGG
AGGAATCAACGCTCTCCCTGCATGTCTATCCAGGCCACTGTGAGGCTGCTTCCAAGGAGGAAAAACA
GGAAAAAATCGATATGTAAACATCTTGCCCTATGACCACTCTAGAGTCCACCTGACACCGGTTGAAGGG
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CACAAGGACCAAAAAGAAGAAACGGTGAATGATTTCTGGCGGATGATCTGGGAACAAAACAGCCACCAT
CGTCATGGTTACCAACCTGAAGGAGAGAAAAGGAGTGAAGTGCGCCAGTACTGGCCAGACCAAGGCTGC
TGGACCTATGGGAATATTCGGGTGTCTGTAGAGGATGTACTGTCTGGTGGACTACACAGTACGGAAAT
TCTGCATCCAGCAGGTGGGCGCATGACCAACAGAAAGCCACAGCGCCTCATCACTCCAGTTCCATTTAC
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GATCCGGGCACAGCGCTGCCAGATGGTGCAAACCGATATGCAGTATGTCTTCATATACCAAGCCCTTCTG
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GAATGACAAGATGCGGACTGGAACCTTCCAGCCAACATGAAGAAGAACCAGTGTATACAGATCATTCCA
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CCGGCAGATCCGGCAGTTCCTTCCATGGCTGGCCTGAAGTGGGCATCCCCAGTACCGGAAAGGGCATG
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GCGCCGGGCAGGAAGGACGGGGACCTTCTGTGCCCTGAGCACCTCCTGGAGCGTGTGAAAGCAGAGGG
GATTTTGGATGTCTTCCAGACTGTCAAGAGCCTGCGGCTACAGAGGCCACACATGGTCCAGACACTGGAA
CAGTATGAGTTCTGCTACAAGGTGGTGCAGGAGTATATTGATGCATTCTCAGATTATGCCAACTCAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG204392 representing NM_080841
 Red=Cloning site Green=Tags(s)

MDSWFLVLLGSGLICVSANNATTVAPSVGITRLINSSTAEPVKEEAKTSNPTSSLTSLSVAPTFSPNIT
 LGPTYLTTVNSSSDNGTTRTASTNSIGITISPNGTWLPDNQFTDARTEPWEGNSSTAATTPETFPSPDE
 TPIIAVMVALSSLLVIVFIIIVLYMLRFKYYKQAGSHSNFRLSNGRTEDEVQSVPLLARSPSTNRKYK
 PLPVDKLEEEINRRMADDNKLFREEFNALPACPIQATCEAASKEENKEKNRYVNILPYDHSRVHLTPVEG
 VPDSYINASFINGYQEKNFIAAQGPKETVNDFWRMIWEQNTATIVMVTNLKERCKECCAQYWPDQGC
 WTYGNIRVSVEDVTVLVDYTVRKFCIQVQVDMTNRKPQRLITQFHFTSWPDFGVPFPTIGMLKFLKVKVA
 CNPQYAGAIIVHCSAGVGRGTGFVVIDAMLDMHTERKVDVYGFVSRIRARQCMVQTMQYVFIYQALL
 EHYLYGDTELEVTLETHLQKIYNKIPGTSNNGLEEEFKLTSIKIQNDKMRTGNLPANMKKNRVLQIIP
 YEFNRVVIIPVKRGEENTDYVNASFIDGYRQKDSYIASQGPLLHTIEDFWRMIWEWKSCSIVMLTELEERG
 QEKCAQYWPSDGLVSYGDITVELKKEEECESYTVRDLLVTNTRENKSRQIRQHFHGWPEVGIIPSDGKGM
 ISIIAAVQKQQQSGNHPITVHCSAGAGRTGTFICALSTVLERVKAEGILDVFTVKSLRLQRPHMVQTL
 QYEFQYKVVQEYIDAFSDYANFK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080841

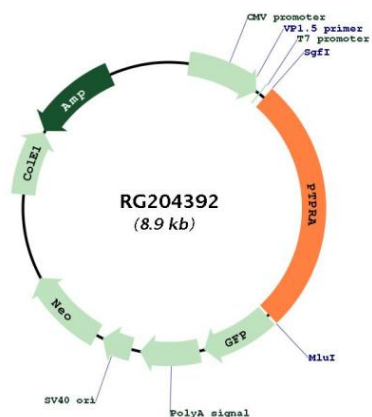
ORF Size: 2379 bp

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:	<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_080841.1 , NP_543031.1
RefSeq Size:	3148 bp
RefSeq ORF:	2382 bp
Locus ID:	5786
UniProt ID:	P18433
Cytogenetics:	20p13
Domains:	Y_phosphatase
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Gene Summary:	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]

Product images:



Circular map for RG204392