

Product datasheet for **SC303871**

PTP rho (PTPRT) (NM_007050) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTP rho (PTPRT) (NM_007050) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTP rho
Synonyms:	R-PTP-T; RPTP-rho; RPTPrho
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_007050, the custom clone sequence may differ by one or more nucleotides

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ATGGCGAGCCTCGCCGCGCTCGCCCTCAGCCTGCTCCTGAGGCTGCAGCTGCCGCCACTG
CCCGGCGCCGGGCTCAGAGCGCCGAGGTGGCTGTTCCCTTTGATGAGCACTACAGCAAC
TGTGGTTATAGTGTGGCTCTAGGGACCAATGGGTTACCTGGGAGCAGATTAACACATGG
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TATCAGGTGATATTTGAATCCGTCTCATTGAAGGGTCATCCTGGCTACATCGCCGTGGAC
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GCGGAGCTGATCGTGAAGAGCCTCCACGCCCATTGCTCCCCAGAGCTGCTGGCTGTG
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AAAGTGTTCAGCTCCGGAATGAAACCCACCACCTCTTTGTGGGTCTGTACCCAGGGACC
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CGGATTGCCACCAAAATTCAGCTCCATCCATGCCTGAGTACGACACAGACACCCCATTTG
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 GGGGGAGGCCGTAGTGAACCTTCTGTGCCATCTGCAGTGTGTGAGATGATCCAGCAG
 CAAAACATCATTGACGTGTTCCACATCGTAAAACACTGCGTAACAACAAATCCAACATG
 GTGGAGACCTGGAACAGTATAAATTTGTATACGAGGTGGCACTGGAATATTTAAGCTCC
 TTTTAG

Restriction Sites:

Please inquire

ACCN:

NM_007050

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_007050.4 , NP_008981.3
RefSeq Size:	12653 bp
RefSeq ORF:	4335 bp
Locus ID:	11122
UniProt ID:	O14522
Cytogenetics:	20q12-q13.11
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 possesses an extracellular region, a single transmembrane region, and two tandem intracellular catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains a meprin-A5 antigen-PTP (MAM) domain, Ig-like and fibronectin type III-like repeats. The protein domain structure and the expression pattern of the mouse counterpart of this PTP suggest its roles in both signal transduction and cellular adhesion in the central nervous system. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks a fragment within the coding region when compared to variant 1. The translation remains in-frame, and thus encodes a protein that lacks an internal segment, as compared to isoform 1.</p>