

## Product datasheet for **SC305922**

### **PTPRS (NM\_130854) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PTPRS (NM_130854) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPRS
Synonyms:	PTPSIGMA; R-PTP-S; R-PTP-sigma
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_130854 edited CGCACGCCGCGAGCCGCTGGCGCTCGGGCTCCGCTCGGATCCCATGCAACAGCCACGATG TGAAGCGGGGAGAGCCGGGGAGCCAGCCAGCCAGCCAGCCTCCAGACGTTGCCCATCTG ACGCTCGGCTCGAGGCCTCTCTGTGAGGGACCGGGGGCCATCCCCCTCCAGGGCGGAGA TCGGAGGTCGCTGCCAAGCATGGCGCCACCTGGGGCCCTGGCATGGTGTCTGTGGTTGG TCCCATGGGCCTCCTTGTGGTCTGCTCGTTGGAGGCTGTGCAGCAGAAGAGCCCCCAG GTTTATCAAAGAACCAAGGACCAGATCGGCGTGTGCGGGGGTGTGGCCTCTTTCGTGTG TCAGGCCACGGGTGACCCCAAGCCACGAGTGACCTGGAACAAGAAGGGCAAGAAGTCAA CTCTCAGCGCTTGTAGACGATTGAGTTTGTGAGAGTGCAGGGGCAGTGCTGAGGATCCA GCCGCTGAGGACACCGCGGGATGAAAACGTGTACGAGTGTGTGGCCAGAAGTCCGGTTGG GGAGATCACAGTCCATGCCAAGCTTACTGTCCTCCGAGAGGACCAGCTGCCCTCTGGCTT CCCCAACATCGACATGGGCCACAGTTGAAGGTGGTGGAGCGGACACGGACAGCCACCAT GCTCTGTGCGAGCCAGCGCAACCCTGACCCTGAGATCACCTGGTCAAGGACTTCCCTGCC TGTGGATCCTAGTGCCAGCAATGGACGCATCAAACAGCTGCGATCAGGAGCCCTGCAGAT TGAAAGCAGTGAGGAAACCGACCAGGGCAAATATGAGTGTGTGGCCACCAACAGCGCCGG CGTGCGCTACTCCTCACCTGCCAACCTCTACGTGCGAGTCCGCGCGTGGCCCCGCGCTT CTCCATCCTGCCATGAGCCACGAGATCATGCCAGGGGCAACGTGAACATCACCTGCGT GGCCGTGGGCTCGCCATGCCATACGTGAAGTGGATGCAGGGGGCCGAGGACCTGACCCC CGAGGATGACATGCCCGTGGTGGGACGTGCTGGAACACAGATGTCAAGGACTCGGC CAACTACCTGCGTGGCCATGTCCAGCCTGGGGCTATTGAGGCGGTTGCTCAGATCAC GGTGAAATCTCTCCCAAAGCTCCCGGACTCCCATGGTGACTGAGAACAGCCACCAG CATCACCATCACGTGGGACTCGGGCAACCAGATCCTGTGCCTATTACGTCATCGAATA TAAATCCAAGAGCCAAGACGGGCGTATCAGATTAAGAGGACATCACCACCACAGTTA CAGCATCGGCGGCTGAGCCCCAACTCGGAGTACGAGATCTGGGTGTCGGCCGTCAACTC CATCGGCCAGGGGCCCCACGAGTCCGTGGTCACCCGCACAGGCGAGCAGGCCCGGC CAGCGCGCGGGAACGTGCAAGCCGGATGCTCAGCGGACACCATGATTGTGCAGTG GGAGGAGCGGTGGAGCCCAACGGCCTGATCCGCGCTACCGCTACTACCCATGGA



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TTTTCCACCCCGTGTATGTAGATATATCGACTTTGTATTAAAGGAAGATCGTCTGACC  
CCGGCCATTGTGGAGT

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_130854

**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).

<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by a single amino acid.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_130854.1</a> , <a href="#">NP_570924.1</a>
<b>RefSeq Size:</b>	6386 bp
<b>RefSeq ORF:</b>	5733 bp
<b>Locus ID:</b>	5802
<b>UniProt ID:</b>	<a href="#">Q13332</a>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Families:</b>	Druggable Genome, Phosphatase, Transmembrane
<b>Gene Summary:</b>	<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 region, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this protein is composed of multiple Ig-like and fibronectin type III-like domains. Studies of the similar gene in mice suggested that this PTP may be involved in cell-cell interaction, primary axonogenesis, and axon guidance during embryogenesis. This PTP has been also implicated in the molecular control of adult nerve repair. Four alternatively spliced transcript variants, which encode distinct proteins, have been reported. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks four internal fragments within the coding region when compared to variant 1. The translation remains in-frame, and thus results in a protein that lacks four internal segments, as compared to isoform 1. Sequence Note: The transcript 3' UTR sequence was derived from a genomic record (AC118535.1) based on a series of overlapping EST alignments.</p>