

Product datasheet for **SC128123**

GLEPP1 (PTPRO) (NM_030667) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLEPP1 (PTPRO) (NM_030667) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLEPP1
Synonyms:	GLEPP1; NPHS6; PTP-OC; PTP-U2; PTPROT; PTPU2; R-PTP-O
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_030667, the custom clone sequence may differ by one or more nucleotides

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ATGGGGCACCTGCCACGGGGATACACGGCGCCCGCCCTCCTGCCTCTGCTCTGGCTCTTTGTGCTGT  
TCAAGAATGCTACAGCTTCCATGTAAGTGTCCAAGATGATAATAACATCGTTGTCTCATTAGAAGCTTC  
AGACGTACATCAGTCCAGCATCTGTGTATGTTGTGAAGATAACTGGTGAATCCAAAAATTATTTCTCGAA  
TTTGAGGAATTCAACAGCACTTTGCCTCCTCTGTTATTTTCAAGGCCAGTTATCATGGCCTTTATTATA  
TAATCACTCTGGTAGTGGTAAATGGAAATGTGGTGACCAAGCCATCCAGATCAATCACTGTGTTAACAAA  
ACCTCTACCTGTAACCACTGTTTCCATATATGACTATAAACCTTCTCCTGAAACAGGAGTCTGTTTGAA  
ATACATTATCCAGAAAAATATAACGTTTTACAGAAGTGAACATTAGCTACTGGGAAGGTAAGACTTCC  
GGACAATGCTATATAAGATTTCTTTAAGGGAAAAACAGTATTTAATCACTGGCTGCCAGGAATGTGTTA  
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GTCAGTCACGAACCCAAACAGCACAGAAGTCCCTTATCCACCTCAAAATATTTCCGTTTCGTATCGTAA  
ACTTGAACAAAAACAAGTGGGAAGAACAGAGTGGCAATTTCCAGAAAGAAATCCTTCATGAGATCACAAAG  
TACAATAGGAAAAGAAAACTCTCCATTTTACAGAAGAAACCCCTGAAATTCCTCGGGCAACATTTCT  
TCCGGTTGGCCTGATTTTAAAGCAGTACTATGAAACTACGCTCAGCCATATTGGTGGGACAGTGCAT  
CTGCAGCTCCTGAAAGTGAAGATGAATTTGTCAGCGTACTTCCCATGGAATACGAAAATAACAGTACACT  
CAGTGAGACAGAGAAGTCAACATCAGGCTCTTTCTCCTTTTCCCTGTGCAAATGATATTGACCTGGTTA  
CCACCAAACCCCACTGCTTTTGTGAGGTTCCATATCCATATTGAACGAGAAGAGAAGTACTGAAAT  
ATTTGATGGTGGATGAAGAAGCAGATGAATTTGTTGCAGAACTGAAGAACTGGGAAATATAAGTTATC  
TGTGACAACCTTTAGTTCCTCAGGATCTTGTGAAACTCGAAAAAGTCACTCAGCAAAATCACTCAGCTTT  
TATATCAGTCCTCAGGAGAGTGGATTGAAGAAGTACCAGAGAAGCCGAGCAGCTGAGTGTCCACGTTT  
TAAGCTCAACCACTGCCTTGTGCTGGACATCTTCCAAAGAGAAGTACAACAGCACCATTGTGTCTGT  
GGTGTCTGCTGACCTGCCAGAAAACAAAAGGAGAGCCAGAGGCTTAAAAGCAGTACTGCCTCAGGTGAAC  
TCAAGCAAACCTATTATTGAAAATCTGGTTCCTGGTGGCCAGTACCAGGTTGTAATATACCTAAGGAAAG  
GCCCTTGTATTGGACCACCTTCAGATCCTGTGACATTTGCTATTGTTCCACAGGAATAAAGGATTTAAT
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GCTCTATCCTTTGGGTCCTACGGCCGTGGTTCTGAGCTGGACCAGACCTATTTAGGCGTGTTCAGAAAA
TACGTGGTTGAAATGTTTTATTTCAACCCTGCTACAATGACATCAGAGTGGACCCTACTATGAAATAG
CAGCAACTGTTTCCTTAAGTGCATCCGTGAGAATAGCTAATCTGCTGCCAGCATGGTACTACAACCTCCG
GGTTACCATGGTACGTGGGGAGATCCAGAATTGAGCTGCTGTGACAGCTCTACCATCAGCTTCATAACA
GCCCCAGTGGCTCCGAAATCACTTCTGTGGAATTTCAACAGTCTGTTATATATCAGTTGGACATATG
GGGATGATACAACGGACTTGTCCATTCTAGAATGCTTCACTGGATGGTGGTTCAGAAAGAAAAAGAA
AATTA AAAAGAGTGAACACGCAATGTCATGACTGCAATCTCAGCTTGCCTCCAGGCACATATAAC
CTCTCAGTAAGTCTGTACTGAAAGAGGAAGTAATACCTCCATGCTCCGCTTGTCAAGCTAGAACCAG
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GTTGCTGTTTCTCCCATGTCGTGACCATCTCCAGCCTTCTTCTGCCACTGCCTACAATTGTAGTGCA
CCAGCTTTAGCCATGACAGCCCCAGTGTCCCTACGTTTCATAGCCGTCTCAACAATGGTTACAGAGATGAA
TCCCAATGTGGTAGTGATCTCCGTGCTGGCCATCCTTAGCACACTTTAATTGGACTGTTGCTTGTACC
CTCATTATCTTAGGAAAAGCATCTGCAGATGGCTAGGGAGTGTGGAGCTGGTACATTTGTCAATTTG
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CTGACTATAAATTTCTTCTCAGTTTGGAGGTTGAAATTGATTGGACTGGATATCCACACTTTGCTGC
AGATCTTCCACTGAATCGATGTA AAAACCGTTACACAAACATCCTACCATATGACTTCAGCCGTGTGAGA
TTAGTCTCCATGAATGAAGAGGAAGGTGCAGACTACATCAATGCCAATATTTCTGGATAACAACCTCAC
CCCAGGAGTATATTGCCACCCAGGGGCCACTGCCTGAAACCAGAAATGACTTCTGGAAGATGGTCTGCA
ACAAAAGTCTCAGATTATTGTCATGCTCACTCAGTGAATGAGAAAAGGAGGGTGAATGTGACCATTAC
TGCCATTACGGAAGAACCTATAGCCTATGGAGACATCACTGTGGAGATGATTTAGAGGAAAGCAGG
ACGACTGGGCCTGTAGACACTTCCGGATCAACTATGCTGACGAGATGCAGGATGTGATGCAATTTAACTA
CACTGCATGGCCTGATCATGGTGTGCCACAGCAATGCTGCAGAAAGTATCCTGCAGTTTGTACACATG
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GAACATTCATTGCCCTGGACAGGCTCTTGCAGCACATTCGGGATCATGAGTTTGTGACATCTTAGGGCT
GGTGTGAGAAATGAGGTCATACCGGATGTCTATGGTACAGACAGAGGAGCAGTACATTTTATCCATCAG
TGTGTGCAACTGATGTGGATGAAGAAGAAGCAGCAGTTCTGCATCAGTGTGATATACGAGAATGTTA
GCAAGTCCTAG

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_030667 unedited
TGTAATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGCAGCAGCGCCTGGCAC
GTTCTTGGAGACCCCGGGCGCAGAGGAGGAAAGGGAGCAGGCGCAGGGGACTGGAAG
GCAGCATGCGCTCGCCAGGAGCAACCTCGGCGCCAGGGTCTGAGGCTGCAGCCCCAGTT
CGCCATTGTGAGCCGCCCGGGGAGTCCGCTAGCGCAGCCGTGCCCCGAGTCCCGT
CCGCGCAGCGATGGGCACTGCCACGGGGATACACGGCGCCCGCCCTCCTGCCTCT
GCTCTGGCTCTTTGTGCTGTTCAAGAATGCTACAGCTTTCCATGTAAGTGTCCAAGATGA
TAATAACATCGTTGTCTCATTAGAAGCTTCAGACGTCATCAGTCCAGCATCTGTGTATGT
TGTGAAGATAACTGGTGAATCCAAAAATTTTCTTCAATTTGAGGAATTAACAGCAC
TTTGCCTCCTCCTGTTATTTTCAAGGCCAGTTATCATGGCCTTTATTATATAACTACTCT
GGTAGTGGTAAATGGAATGTGGTGACCAAGCCATCCAGATCAATCACTGTGTTAACAAA
ACCTCTACCTGTAACCAAGTGTTCATATATGACTATAAACCTTCTCCTGAACAGGAGTC
CTGTTTGAATAACATTATCCAGAAAAATATAACGTTTTTCAAGAGTGAACATTAGCTAC
TGGGAGGTAAAGACTTCCGGACAATGCTATATAAAGATTTCTTTAGGGAAAAACAGTAT
TTAATACTGGCTGCCAGGAATGTGNTATAGTAATATCACCTTTTACAGTGGTATCTGNAG
GCACTTTAATAANAGTACCCTGNTGAGTACAGTGGTGTGAGTACAGCACC

3' Read Nucleotide Sequence:	>OriGene 3' genomic read for NM_030667 unedited AACTTAGNNCACGCGCCGCATNCTANGATCGAATTTTTTTTTTTTTTTTTTTANATG CCACAGGGAACAGCCAGCTTGTGTTTACTTTCAACTCAAATGGTTTCTGTTGTATATCC ATGTCATCACCTTTATTTATCAGGAAGTGACACAAAGTAACAGGCTTACAATGCCATC AATGTCATTTTGACAGCATTTCATGTCACAATACACAATCATGTGCTGTAATTATACAAAA TCCAAAGAATAAAATGTTACTAGTTACTACTCGTTAAAAAGAACTGACAACCACAAGAAT AACAAAACATAAAAGAAATCTCTGCATAATCCATAAAGACATTTGACAATATTACAAAA AAAGTAGTCAAATAATTGTCCAGCATGCTGCAGTTCATTGCCATAACTTCATAAATTCC CAGCTCTTTGGGGAAAGAAAGTGCGTTTTTCACAGCCTATATAGTTCTTAAAGAAATAGC TCTCACATGTATGCACGTCAACAGAACAAGGAATGCTTAGTCTAAGCACCACGATTGGTC AGACCGCAACAGAGTTCAAAGAGTCCAACCTTGACACTTTTCTGCACCAGATGTGGTTTCT TGAAAAAGAACTGGACAGCTACATTAGTCCAAAAGCGGCCGAGAAAGAACCAACTGG TAATAAGGAATAAAACCCCTCCCGAAACTAGCACACTCTGACACAATTTTTTCTCCTACC CCAAGTTTGAACCCCTGAAATATAACCCCTGAAAACCTAAAGATTAACCCGCGTTGATTC TGGGGGATAAAAACCCCTCTCTTACCCTGAACACACCTCCCCAATCCTATATCCGGGTA ACGCG
Restriction Sites:	NotI-NotI
ACCN:	NM_030667
Insert Size:	4000 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:	NM_030667.1 , NP_109592.1
RefSeq Size:	5153 bp
RefSeq ORF:	3651 bp
Locus ID:	5800
UniProt ID:	Q16827
Cytogenetics:	12p13-p12
Domains:	Y_phosphatase, PTPc_motif, FN3
Protein Families:	Phosphatase, Transmembrane

Gene Summary:

This gene encodes a member of the R3 subtype family of receptor-type protein tyrosine phosphatases. These proteins are localized to the apical surface of polarized cells and may have tissue-specific functions through activation of Src family kinases. This gene contains two distinct promoters, and alternatively spliced transcript variants encoding multiple isoforms have been observed. The encoded proteins may have multiple isoform-specific and tissue-specific functions, including the regulation of osteoclast production and activity, inhibition of cell proliferation and facilitation of apoptosis. This gene is a candidate tumor suppressor, and decreased expression of this gene has been observed in several types of cancer. [provided by RefSeq, May 2011]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.