

Product datasheet for **SC127070**

GLEPP1 (PTPRO) (NM_002848) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLEPP1 (PTPRO) (NM_002848) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLEPP1
Synonyms:	GLEPP1; NPFS6; 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_002848, the custom clone sequence may differ by one or more nucleotides

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ATGGGGCACCTGCCACGGGGATACACGGCGCCCGCCCTCCTGCCTCTGCTCTGGCTCTTTGTGCTGT
TCAAGAATGCTACAGCTTCCATGTAAGTGTCCAAGATGATAATAACATCGTTGTCTCATTAGAAGCTTC
AGACGTCATCAGTCCAGCATCTGTGTATGTTGTGAAGATAACTGGTGAATCCAAAAATTATTTCTCGAA
TTTGAGGAATTCAACAGCACTTTGCCTCCTCTGTTATTTTCAAGGCCAGTTATCATGGCCTTTATTATA
TAATCACTCTGGTAGTGGTAAATGGAAATGTGGTGACCAAGCCATCCAGATCAATCACTGTGTTAACAAA
ACCTCTACCTGTAACCACTGTTTCCATATATGACTATAAACCTTCTCCTGAAACAGGAGTCTGTTTGAA
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GGACAATGCTATATAAGATTTCTTTAAGGGAAAAACAGTATTTAATCACTGGCTGCCAGGAATGTGTTA
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GTCAGTCACGAACCCAAACAGCACAGAAGTCCCTTATCCACCTCAAAATATTTCCGTTTCGTATCGTAA
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TACAATAGGAAAAGAAAACTCTCCATTTACAGAAGAAACCCCTGAAATTCCTCGGGCAACATTTCT
TCCGGTTGGCCTGATTTAATAGCAGTACTATGAAACTACGCTCAGCCATATTGGTGGGACAGTGCAT
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TATATCAGTCCTCAGGAGAGTGGATTGAAGAAGTACCAGAGAAGCCGAGCAGCTGAGTGTCCAGCTTT
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GGTGTCTGCTGACCTGCCAGAAAACAAAAGGAGAGCCAGAGGCTTAAAAGCAGTACTGCCTCAGGTGAAC
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GCTCTATCCTTTGGGTCCTACGGCCGTGGTTCTGAGCTGGACCAGACCTATTTAGGCGTGTTCAGAAAA
TACGTGGTTGAAATGTTTTATTTCAACCCTGCTACAATGACATCAGAGTGGACCCTACTATGAAATAG
CAGCAACTGTTTCCTTAAGTGCATCCGTGAGAATAGCTAATCTGCTGCCAGCATGGTACTACAACCTCCG
GGTTACCATGGTGACGTGGGGAGATCCAGAATTGAGCTGCTGTGACAGCTCTACCATCAGCTTCATAACA
GCCCCAGTGGCTCCGAAATCACTTCTGTGGAATTTCAACAGTCTGTTATATATCAGTTGGACATATG
GGGATGATACAACGGACTTGCCATTCTAGAATGCTTCACTGGATGGTGGTTGCAGAAGGAAAAAGAA
AATTA AAAAGAGTGAACACGCAATGTCATGACTGCAATCTCAGCTTGCCTCCAGGCCACATATAAC
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GCCACCCAGGGGCCACTGCCTGAAACCAGAAAATGACTTCTGGAAGATGGTCTGCAACAAAAGTCTCAGA
TTATTGTCATGCTCACTCAGTGTAAATGAGAAAAGGAGGGTGAATGTGACCATTACTGGCCATTCACGGA
AGAACCTATAGCCTATGGAGACATCACTGTGGAGATGATTTAGAGGAAGAGCAGGACACTGGGCCTGT
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CTGGACAGGCTCTTGACGACATTCGGGATCATGAGTTTGTGACATCTTAGGGCTGGTGTGAGAAATGA
GGTCATACCGGATGTCTATGGTACAGACAGAGGAGCAGTACATTTTATCCATCAGTGTGTGCAACTGAT
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002848 unedited
TACGACTCCTATAGGCGGCCCGGAATTCGCACGAGGCCTCGTGCCGAATTCGGCAGGAG
GATTTTATGGGTGCGCAGCCAGAGTGAGAGTGTCCCTGCTGCCAGAGGACTACGGCGGGC
TGGGCGCGGGGTCCCGCCTCTCGCTCACCACACAGACCCCGCGCCTCCTCTGGCAGCCG
CGGTGGTGGCGGCGCAGAGCCTCGCCACTCCAATCCCCACCCTCTCCATCCTTAGTCA
TTAAAGAACAGCAGCGCCTGGCACGTTCTTGGAGGACCCCGGCGCAGAGGAGGAAAGGG
AGCAGGCGCAGGGGGACTGGAAAGGCAGCATGCGCTCGCCAGGAGCAACCTCGGCGCCCA
GGGTCTGAGGCTGCAGCCCCAGTTCGCCATTGTGAGCCCGCGCGGGGAGTCCGCTAGC
GCAGCCGTGCCCCGAGTCCCGTCCGCGCAGCGATGGGGCACCTGCCACGGGGATACA
CGGCGCCCCGCGCCTCCTGCCTCTGCTCTGGCTCTTTGTGCTGTTCAAGAATGCTACAGC
TTTCCATGTAAGTGTCCAAGATGATAATAACATCGTTGTCTCATTAGAAGCTTCAGACGT
CATCAGTCCAGCATCTGTGTATGTTGTGAAGATAACTGGTGAATCCAANAATTATTTCTT
CGAATTTGAGGAATCAACAGCCCTTTGCCTCCTNCTGTTATTTTCAAGGCCAGTTATCA
TGGCCTTTATATAATCACTCTGGTAGTGGTAATGGAATGTGGTGACCAAGCATCCAG
ATCAATCACTGTGTTAACAACCTCTACCTGAACCAGTGTTCATAATGACTATAAACC
TCTCCTGAACAAGAGTCTGTTTGAATAACATTATCCAGAAATATTACGGTTTCCAAGAG
TGACTTTACTCTGGGAAGTAAGACTCCA
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002848 unedited NTTCTTGNCCGCGGCCGATTCTANATCGAGTTTTTTTTTTTTTTTTTTTTTCTGTGCATC ACCTCTTATTTATCAGGAAGTGACACAAAGTAACAGGCTTCACAATGCCATCAATGTCAT TTTGACAGCATTGTCACAATACACAATCATGTACTGTAATTATACAAAATCCAAAGA ATAAAAATGTTACTAGTTACACTCGTTAAAATGAACTGACAACCAAAAAGAATAACAAAAC AAAAAGAAATCTCTGTCAGAATCCATAGAGACATTTGACAATATTACAAAAAAGTAGT CAAATAATTGTCCAGCATGCTGCAGTTCATTGCCATAACTTCATAAATCCCAGCTCTT TGGGGAAAAGAAAGTGCCTTTTACAGCCTATATAGTTCTTAAAGAAATAGCTCTCACAT GTATGCAGGTCAACAGAACAAAGGAATGCAAAGTCTAGGCACCACGATTGCTCAGACAGCA ACAGAGTTCAAAGAGTCCAACCTTGACACTCTTCTGAACCAGATGTGGTTTCTTGAGAAA AACTTGGACAGTAACATTAGTCCAAAAGGGCCAAGGAAGAAACACCAACTGTTAATAAGG AAGAAAACCATCAAGAACTAGAACAGTTAAGACAATTTTTTTCTACTCTACTTTGAAGC TGAATTATAGCTTGAATAGTAAAAGATACACAGGTGATCTGTGGGTAGAACCCTTTTNC CCTGACCACCTTCCCAATCCAGATCCGGGAATTGTTGAATACAGAAAGGCCTGGCTCA ATTTCTTTGAAGAAAAGACCATTTCTTCTGGGGTGGCCATGCCCTCTTTAATAAGAAG TATAATCGGATGCTAACAAAGCCTGTTCTTCTGGTTTATGGGCCTGTGAACAGGGGAGG CAAAAACATTCATTTTTGGTAAAATTCACCCCCCACAAATTTGTGCCTCGAAAAACAA ACCCTTAAAAATAAAACCT
Restriction Sites:	NotI-NotI
ACCN:	NM_002848
Insert Size:	5750 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:	<u>NM_002848.2</u> , <u>NP_002839.1</u>
RefSeq Size:	6295 bp
RefSeq ORF:	3567 bp
Locus ID:	5800
UniProt ID:	<u>Q16827</u>
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 (2) lacks an exon in the coding region but maintains the reading frame, compared to variant 1. The encoded isoform (b) is shorter than 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.