

Product datasheet for **SC109684**

GLEPP1 (PTPRO) (NM_030669) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLEPP1 (PTPRO) (NM_030669) 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-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_030669, the custom clone sequence may differ by one or more nucleotides

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ATGGTTACAGAGATGAATCCCAATGTGGTAGTGATCTCCGTGCTGGCCATCCTTAGCACACTTTTAATTG
GACTGTTGCTTGTACCCTCATTATTCTTAGGAAAAGCATCTGCAGATGGCTAGGGAGTGTGGAGCTGG
TACATTTGTCAATTTTGCATCCTTAGAGAGGGATGGAAAGCTCCATACAACCTGGCGTAGGAGTATATTT
GCTTTCTAACCCCTGCTACCCTCATGTCTTTGGACTGATTATCTTTTGGCATTATATTAATCCTTGG
GTAAAAATGGTTTAAAGAAGAGGAAACTGACAAACCCGGTTCAACTGGATGACTTTGATGCCTATATTA
GGATATGGCCAAAGACTCTGACTATAAATTTTCTTTCAGTTTGAGGAGTTGAAATTGATTGGACTGGAT
ATCCCACACTTTGCTGCAGATCTCCACTGAATCGATGTAAAAACCGTTACACAAACATCCTACCATATG
ACTTCAGCCGTGTGAGATTAGTCTCCATGAATGAAGAGGAAGGTGCAGACTACATCAATGCCAATATAT
TCCTGGATACAACCTACCCCAGGAGTATATTGCCACCCAGGGGCCACTGCCTGAAACCAGAAATGACTTC
TGGAAGATGGTCCTGCAACAAAAGTCTCAGATTATTGTCATGCTCACTCAGTGAATGAGAAAAGGAGGG
TGAAATGTGACCATTACTGGCCATTACGGAAGAACCTATAGCCTATGGAGACATCACTGTGGAGATGAT
TTCAGAGGAAGAGCAGGACGACTGGCCCTGTAGACACTCCGGATCAACTATGCTGACGAGATGCAGGAT
GTGATGCATTTTAACTACACTGCATGGCCTGATCATGGTGTGCCACAGCAAATGCTGCAGAAAGTATCC
TGCAGTTTGTACACATGGTCCGACAGCAAGCTACCAAGAGCAAAGTCCCATGATCATTCACTGCAGTGC
TGGCGTGGGACGGACAGGAACATTTCATTCCTGGACAGGCTCTTGACGACATTCGGGATCATGAGTTT
GTTGACATCTTAGGGCTGGTGTGAGAAATGAGGTCATACCGGATGTCTATGGTACAGACAGAGGAGCAT
ACATTTTTATCCATCAGTGTGTGCAACTGATGTGGATGAAGAAGAAGCAGCAGTTCTGCATCAGTGTGT
CATATACGAGAATGTTAGCAAGTCTAG

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_030669 unedited
 NNGGTGTCAAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGTTAT
 ATATCAGTTGGACATATGGGGATGATACAACGGACTTGTCCCATTCTAGAATGCTTCACT
 GGATGGTGGTTGCAGAAGGAAAAAGAAAATAAAAAGAGTGTAAACGCAATGTCATGA
 CTGCAATTCTCAGCTTGCCTCCAGGCGACATCTATAACCTCTCAGTAAGTCTTGTACTG
 AAAGAGGAAGTAATACCTCCATGCTCCGCTTGTCAAGCTAGAACCAGCTCCACCCAAAT
 CACTCTTCGCAGTGAACAAAACCCAGACTTCAGTGACTTTGCTGTGGGTGGAAGAGGGAG
 TAGCTGATTTCTTTGAAGTTTTCTGTCAACAAGTTGGCTCCAGTCAGAAAACCAAATTC
 AGGAACCAAGTTGCTGTTTCTTCCATGTCGTGACCATCTCCAGCCTTCTTCTGCCACTG
 CCTACAATTGTAGTGTACCAGCTTTAGCCATGACAGCCCCAGTGTCCCTACGTTTCATAG
 CCGTCTCAACAATGGTTACAGAGATGAATCCCAATGTGGTAGTGATCTCCGTGCTGGCCA
 TCCTTAGCACACTTTTAATTGGACTGTTGCTTGTACCCTCATTATTCTTAGGAAAAAGC
 ATCTGCAGATGGTAGGGAGTGTGGAGCTGGTACATTTGTCAATTTGCATCCTTAGAGA
 GGGATGGAAGCTTCCATACAACCTGGCGTAGGAGTATATTTGCTTCTTAAACCCTGCTAC
 CCTCATGTCTTTGGACTGATTATCTTTTGGCATTNTATATTAATCCTTGGNAGTAAAATG
 GTTAAAGAAGAAGAACTGACANACCCNGNTCAACTGGATGACTNTGATGCCTATATTT
 AAGATATGGCCAAAGACTCTN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_030669 unedited
 TACCGCGCCGCAATCTAGATCGAGTTTTTTTTTTTTTTTTTTTGGCCACAGGAAGCAGCCA
 GCTTGTGTTTACTTTCAACTCAAAGTGTCTTGTGTATATCCATGTCATCACCTCTTA
 TTTATCAGGAAGTGACACAAAGTAACAGGCTTCACAATGCCATCAATGTCATTTTGACAG
 CATTTCATGTCACAATACACAATCATGTACTGTAATTATACAAAAAATCCAAAGAATAAA
 AATGTACTAGTTACACTGTTAAAATGAACTGANACCAAGAAATACANAACANAAG
 AATCTCTGTGAGAATCCATAGAGACATTTGACAATATTACAAAAAAGTAGTCAAATAAT
 GTCCCAGCATGCTGCAGTTCATTTGCCATAACTTCATAAATNNCCAGCTCTTTGGGGGAA
 GAAAGTGCGTTTTTACAGCCTATATAGTTCTTAAAAGAAATAGCTCTCACATGTATGCAGG
 TCAACAGAACAAGGAATGCAAAGTCTAGGCACCACGATTGCTCAGACAGCAACAAGATTC
 AAAAGAGTCCAACCTTGACACTCTTCTGAAACAGATGTGGTTTTCTTGAGAAAGAACTTGGC
 AGTAACATTTAGTCCAAAAGGCCAGGNANGAAACCAACTGGTTATTAGGGAGAAAAA
 CCCTCCAGAACTTGAACAGTTAAGACAATTTTTTTTTTACTTTACCTGGAAGCTGGATT
 ATAACTGGAATAGTAAAAGATAACACAAGTGATCTGTGGGTAAACCCCTTTTTCCCTG
 ACCAACTTTCCATACAAATCCGGAATGTTGAAACAAAAAAGGCTGGCTCATTTCTTTA
 GAAGAAATGACCTTNCTTAGGGGGGCATGCTCCTTTAAAATGAGGGTAAATCGGGGCTA
 CAAGCCTGTTCTCCTGGGTATGGGCCCTAAAACGGGTAGCCAAAAATTAACCTTTGAAA
 GAATCCCCACCAAAATTTTGGCTGAAAACACCTTTAAATAAACTCGCCCACGCCAGGG
 CCCTACTCTTGAGGCTGGCTTTC

Restriction Sites:

NotI-NotI

ACCN:

NM_030669

Insert Size:

3110 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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:

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_030669.1](#), [NP_109594.1](#)

RefSeq Size: 3032 bp

RefSeq ORF: 1218 bp

Locus ID: 5800

UniProt ID: [Q16827](#)

Cytogenetics: 12p13-p12

Domains: Y_phosphatase

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 (3) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream, in-frame start codon, compared to variant 1.

Variants 3 and 5 encode the same isoform (c), which has a shorter N-terminus compared to 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.