

Product datasheet for **RG214573**

GLEPP1 (PTPRO) (NM_030668) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLEPP1 (PTPRO) (NM_030668) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTPRO
Synonyms:	GLEPP1; NPHS6; PTP-OC; PTP-U2; PTPROT; PTPU2; R-PTP-O
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214573 representing NM_030668 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTACAGAGATGAATCCCAATGTGGTAGTGATCTCCGTGCTGGCCATCCTTAGCACACTTTTAATTG
GACTGTTGCTTGTACCCTCATTATTCTTAGGAAAAGCATCTGCAGATGGCTAGGGAGTGTGGAGCTGG
TACATTTGTCAATTTGCATCCTTAGAGAGGGATGAAAGCTCCATACAACCTGGAGTAAAAATGGTTTA
AAGAAGAGGAACTGACAAACCCGGTCAACTGGATGACTTTGATGCCTATATTAAGGATATGCCAAAG
ACTCTGACTATAAATTTCTCTTCAGTTTGAGGAGTTGAAATTGATTGGACTGGATATCCACACTTTGC
TGCAGATCTTCCACTGAATCGATGTAAAAACCGTTACACAACATCCTACCATATGACTTCAGCCGTGTG
AGATTAGTCTCCATGAATGAAGAGGAAGGTGCAGACTACATCAATGCCAACTATATTCCTGGATACAACT
CACCCAGGAGTATATTGCCACCCAGGGGCCACTGCCTGAAACCAGAAATGACTTCTGGAAGATGGTCTCT
GCAACAAAAGTCTCAGATTATTGTATGCTCACTCAGTGAATGAGAAAAGGAGGGTGAATGTGACCAT
TACTGGCCATTCACGGAAGAACCTATAGCCTATGGAGACATCACTGTGGAGATGATTTTCAGAGGAAGAGC
AGGACGACTGGCCTGTAGACACTTCCGGATCAACTATGCTGACGAGATGCAGGATGTGATGCATTTTAA
CTACACTGCATGGCCTGATCATGGTGTGCCACAGCAAATGCTGCAGAAAGTATCCTGCAGTTTGTACAC
ATGGTCCGACAGCAAGCTACCAAGAGCAAAGTCCCATGATCATTCACTGCAGTGGCTGGGACGGA
CAGGAACATTCATTGCCCTGGACAGGCTCTTGACGACATTCGGGATCATGAGTTTGTGACATCTTAGG
GCTGGTGTGAGAAATGAGGTCATACCGGATGTCTATGGTACAGACAGAGGAGCAGTACATTTTTATCCAT
CAGTGTGTGCAACTGATGTGGATGAAGAAGAAGCAGCAGTTCTGCATCAGTGTGATGCATATACGAGAATG
TTAGCAAGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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 Red=Cloning site Green=Tags(s)

MVTEMNPNVVVISVLAILSTLLIGLLLVTLIILRKKHLQMARECGAGTFVNFASLERDGKLPYNWSKNGL
 KKRKL TNPVQLDDFDAYIKDMAKDSYKFSLQFEELKLI GLDIPHFAADLPLNRCKNRYTNILPYDFS RV
 RLVS MNEEEGADYINANYIPGYNSPQEYIATQGPLPETRNDFWKMLV LQQKSQII VMLTQCNEKRRVKCDH
 YWPFTEEPIAYGDITVEMI SEEEQDDWACRHFRI NYADEMQDVMHFNYTAWPDHGVPTANA AESILQFVH
 MVRQQATKSKGPMI IHCSAGVGRGTGFI ALDRLLQHIRDHEFVDILGLVSEMRSYRMSMVQT EEQYIFIH
 QCVQLMWMKKKQQFCISDVIYENVSKS

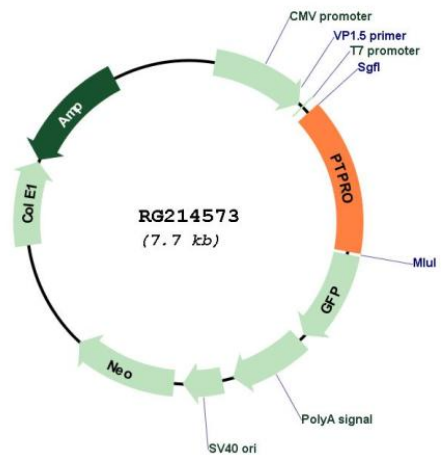
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_030668

ORF Size:	1131 bp
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_030668.3
RefSeq Size:	2948 bp
RefSeq ORF:	1134 bp
Locus ID:	5800
UniProt ID:	Q16827
Cytogenetics:	12p13-p12
Domains:	Y_phosphatase, PTPc_motif
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]