

Product datasheet for **RG201142**

Protein Phosphatase 1 beta (PPP1CB) (NM_206876) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protein Phosphatase 1 beta (PPP1CB) (NM_206876) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Protein Phosphatase 1 beta
Synonyms:	HEL-S-80p; MP; NSLH2; PP-1B; PP1B; PP1beta; PP1c; PPP1beta; PPP1CD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201142 representing NM_206876 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGACGGGGAGCTGAACGTGGACAGCCTCATCACCCGGCTGCTGGAGGTACGAGGATGTCGTCCAG
GAAAGATTGTGCAGATGACTGAAGCAGAAGTTCGAGGCTTATGTATCAAGTCTCGGGAGATCTTTCTCAG
CCAGCCTATTCTTTGGAATTGGAAGCACCGCTGAAAATTTGTGGAGATATTCATGGACAGTATACAGAT
TACTGAGATTATTTGAATATGGAGTTTCCCACCAGAAGCCAATATCTTTCTTAGGAGATTATGTGG
ACAGAGGAAAGCAGTCTTTGAAACCATTGTGGCTATTGGCTATAAAATCAAATATCCAGAGAACTT
CTTTCTCTTAAGAGGAAACCATGAGTGTCTAGCATCAATCGCATTTATGGATTCTATGATGAATGCAAA
CGAAGATTTAATATTAATTTGTGGAAGACCTTCACTGATTGTTTTAACTGTCTGCCTATAGCAGCCATTG
TGGATGAGAAGATCTTCTGTTGTCATGGAGGATTGTCACCAGACCTGCAATCTATGGAGCAGATTCGGAG
AATTATGAGACCTACTGATGTCCCTGATACAGGTTTGCTCTGTGATTTGCTATGGTCTGATCCAGATAAG
GATGTGCAAGGCTGGGGAGAAAATGATCGTGGTGTTCCTTTACTTTTGGAGCTGATGTAGTCAGTAAAT
TTCTGAATCGTCATGATTTAGATTTGATTTGTCGAGCTCATCAGGTGGTGAAGATGGATATGAATTTT
TGCTAAACGACAGTTGGTAACCTTATTTTTCAGCCCCAAATTAAGTGTGGCAGTTTGATAATGCTGGTGA
ATGATGAGTGTGGATGAACTTTGATGTGTTTCAATTCAGATATTGAAACCATCTGAAAAGAAAGTAAAT
ACCAATGATGGTGGACTGAATTCGGACGCTCTGCACTCCACCTCGAACGCTAATCCGCCGAAGAAAAG
G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201142 representing NM_206876
 Red=Cloning site Green=Tags(s)

MADGELNVDSLITRLLLEVRGCRPGKIVQMTEAEVRGLCIKSREIFLSQPILLELEAPLKICGDIHGQYTD
 LLRLFEYGGFPPEANYLFLGDYVDRGKQSLETICLLLAYKIKYPENFFLLRGNHECASINRIYGFYDECK
 RRFNIKLWKTFTDCFNCLPIAAIVDEKIFCCHGGLSPDLQSMEQIRRIMRPTDVPDGLLCDLLWSDPK
 DVQGWGENDRGVSFTFGADVVSFKFLNRHDLDLICRAHQVVEDGYEFFAKRQLVTLFSAPNYCGEFDNAGG
 MMSVDETLMCSFQILKPSEKKAKYQYGLNSGRPVTPPRTANPPKKR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_206876

ORF Size: 981 bp

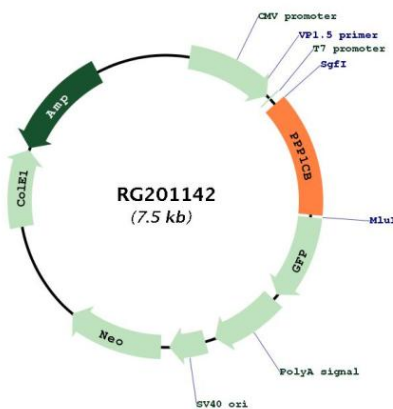
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_206876.1 , NP_996759.1
RefSeq Size:	4786 bp
RefSeq ORF:	984 bp
Locus ID:	5500
UniProt ID:	P62140
Cytogenetics:	2p23.2
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Focal adhesion, Insulin signaling pathway, Long-term potentiation, Oocyte meiosis, Regulation of actin cytoskeleton, Vascular smooth muscle contraction
Gene Summary:	The protein encoded by this gene is one of the three catalytic subunits of protein phosphatase 1 (PP1). PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Mouse studies suggest that PP1 functions as a suppressor of learning and memory. Two alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201142