

Product datasheet for **RG200853**

PLPBP (NM_007198) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PLPBP
Synonyms:	EPVB6D; PROSC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG200853 representing NM_007198
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGAGAGCTGGCAGCATGTCGGCCGAGCTGGGAGTCGGGTGCGCATTGCGGGCGGTGAACGAGCGCG
TGCAGCAGGCTGTGGCGCGGCCGCGGGATCTCCAGCCATCCAGCCCGGCTAGTGGCGGTACAGAA
AACCAACCTGCAGACATGGTGATCGAGGCCTATGGACATGGGCAGCGCACTTTGGCGAGAATACGTT
CAGGAAGCTGCTAGAAAAAGCATCAATCCCAAAATTCGTCTTTGTCTCCTGAGATCAATGGCACTTCA
TTGGCCACCTACAGAAACAAAATGTCAACAAATTGATGGCTGTCCCAATCTCTTCATGCTGGAACAGT
GGATTCTGTGAAGTTGGCAGACAAAGTGAACAGTTCCTGGCAGAGAAAAGGTTCTCCTGAAAGGTTAAAG
GTTATGGTCCAGATTAACACCAGCGGAGAGAGAGTAACATGGCCTTCACCTTCAGAGACCATAGCCA
TCGTGGAGCACATAACGCCAAGTGTCTAACCTGGAGTTTGTGGGGCTGATGACCATAGGAAGCTTTGG
GCATGATCTTAGTCAAGGACCAATCCAGACTTCAGCTGTTATTGTCCCTCCGGGAGGAGCTGTGTAAA
AAGCTGAACATCCCTGCTGACCAGGTTGAGCTGAGCATGGGCATGTCCGCGGATTTCCAGCATGCGGTTG
AAGTAGGATCTACAAATGTCCGAATAGGAAGCACGATTTTGGAGAGCGGGATTACTCAAAGAAACCCAC
CCCGACAAGTGCGCAGCAGACGTGAAGCCCCGCTGGAGGTGGCAGGAGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



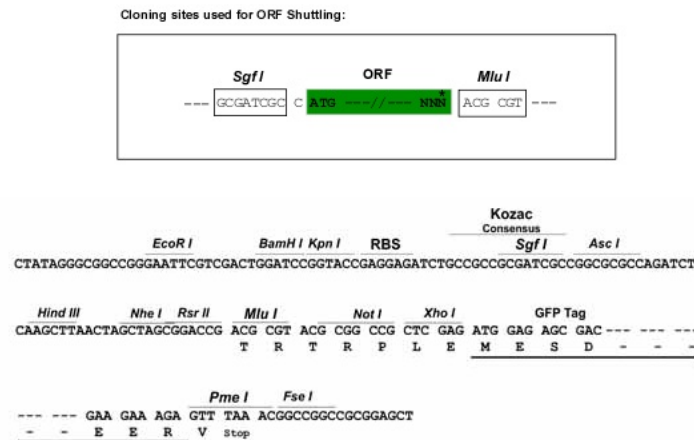
Protein Sequence: >RG200853 representing NM_007198
Red=Cloning site Green=Tags(s)

MWRAGSMSAELGVGCALRAVNERVQQAVARRPRDLPAIQPRLVAVSKTKPADMVEAYGHGQRTFGENYV
QELLEKASNPKILSLCPEIKWHFIGHLQKQNVNKLMAVPNLFMLETVDSVKLADKVNSSWQRKGSERLK
VMVQINTSGEESKHGLPPSETIAIVEHINAKCPNLEFVGLMTIGSFGHDL SQGPNPDFQLLLSLREELCK
KLNIPADQVELSMGMSADFQHAVEVGSTNVRIGSTIFGERDYSSKPTPDKCAADVKAPLEVAQEH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007198

ORF Size: 825 bp

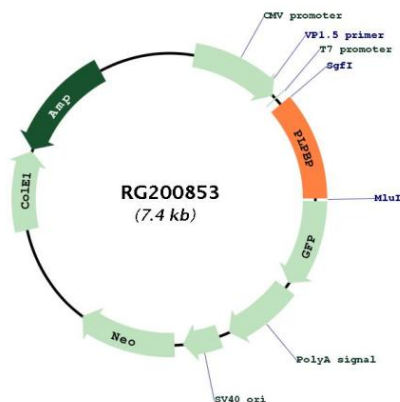
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_007198.4</u>
RefSeq Size:	3012 bp
RefSeq ORF:	828 bp
Locus ID:	11212
UniProt ID:	<u>O94903</u>
Cytogenetics:	8p11.23
Domains:	Ala_racemase_N
Gene Summary:	This gene encodes a pyridoxal 5'-phosphate binding protein involved in the homeostatic regulation of intracellular pyridoxal 5'-phosphate. This gene has a tumor suppressive effect on hepatocellular carcinoma and other solid tumors of epithelial origin. Naturally occurring mutations in this gene are associated with a pyridoxine-dependent epilepsy. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RG200853