

Product datasheet for **SC115679**

PLPBP (NM_007198) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLPBP (NM_007198) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLPBP
Synonyms:	EPVB6D; PROSC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115679 sequence for NM_007198 edited (data generated by NextGen Sequencing)

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ATGTGGAGAGCTGGCAGCATGTGCGCCGAGCTGGGAGTCGGGTGCGCATTGCGGGCGGTG
AACGAGCGCGTGCAGCAGGCTGTGGCGCGCGCCGCGGATCTCCAGCCATCCAGCCC
CGGCTAGTGGCGGTGAGCAAAACCAAACCTGCAGACATGGTGATCGAGGCCTATGGACAT
GGGCAGCGCACTTTTGGCGAGAAGTACGTTGAGGAACTGCTAGAAAAAGCATCAAATCCC
AAAATTCTGTCTTTGTGTCCTGAGATCAAATGGCACTTCATTGGCCACCTACAGAAACAA
AATGTCAACAAATTGATGGCTGTCCCAATCTCTTCATGCTGGAAACAGTGGATTCTGTG
AAGTTGGCAGACAAAGTGAACAGTTCCTGGCAGAGAAAAGTTCTCCTGAAAGGTTAAAG
GTTATGGTCCAGATTAACACCAGCGGAGAAGAGAGTAAACATGGCCTTCCACCTCAGAG
ACCATAGCCATCGTGGAGCACATAAACGCCAAGTGTCTAACCTGGAGTTTGTGGGGCTG
ATGACCATAGGAAGCTTTGGGCATGATCTTAGTCAAGGACCAAAATCCAGACTTCCAGCTG
TTATTGTCCCTCCGGGAGGAGCTGTGTAAGAAAGCTGAACATCCCTGCTGACCAGGTTGAG
CTGAGCATGGGCATGTCCGCGGATTTCCAGCATGCGGTTGAAGTAGGATCTACAAATGTC
CGAATAGGAAGCACGATTTTGGAGAGCGGGATTACTCAAAGAAACCCACCCCGGACAAG
TGCGCAGCAGACGTGAAGGCCCGCTGGAGGTGGCACAGGAGCACTGA
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Clone variation with respect to NM_007198.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007198 unedited
 TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCCACGGGCTGCCGG
 GGGCCTGGGGCTCGGCCTCGGTCCCCGGGGGATGTGGAGAGCTGGCAGCATGTCGGCCGA
 GCTGGGAGTCGGGTGCGCATTGCGGGCGGTGAACGAGCGCGTGCAGCAGGCTGTGGCGCG
 GCGGCCGCGGGATCTCCAGCCATCCAGCCCCGGCTAGTGGCGGTGAGCAAAACCAAAACC
 TGCAGACATGGTGATCGAGGCCTATGGACATGGGCAGCGCACTTTTGGCGAGAACTACGT
 TCAGAACTGCTAGAAAAAGCATCAAATCCCAAAATTCGTCTTTGTGTCCTGAGATCAA
 ATGGCACTTCATTGGCCACCTACAGAAACAAAATGTCAACAAATTGATGGCTGTCCCAA
 TCTCTTATGCTGAAACAGTGGATTCTGTGAAGTTGGCAGACAAAGTGAACAGTTCCCTG
 GCAGAGAAAAGTTTCTCCTGAAAGGTTAAAGGTTATGGTCCAGATTAACACCAGCGGAGA
 AGAGAGTAAACATGGCCTTCCACCTTCAGAGACCATAGCCATCGTGGAGCACATAAACGC
 CAAGTGTCTAACCTGGAGTTTGTGGGGCTGATGACCATAGGAAGCTNTGGGCATGATCT
 TAGTCAAGGACCAAAATCCAGACTCCAGCTGTTATTGTCCCTCCGGGAGGAGCTGTGTAA
 AAGCTGAACATCCCTGCTGACCAGTTGAGCTGAGCATGGGCATGTCGCGGATTTCCAG
 CATGCGGTTGAAGTAGGATCTANCAATGTCCGAATAGGAAGCACGATTTTGGAGAGCGG
 GGATACTCANAGAAACCCACCCCGACAGTGCGCANCANACGTGAAAGCCCGCTTGGAGG
 TGGCACAGAGCACTGAGCCAGGGATACTGAGAGCACTACTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007198 unedited
 GGCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTAAATAAAAAATAAATCTTTTAA
 TTGCTTTGTAATTGGCACAGATGGTGAATTCAAACTCACATTTTATTTAATAGACTCT
 GAAATATCACACTGTAGCTCTCACTGAAATAATACAGGAATCATAATGTTTAAGTTTACA
 AAAGTACATTTGGCAGCATCATGATGTTTTGAAAGTTACCTGTAAAATCAAAGACTGGGG
 CTTCAAAAAATAAGAGAAAAGCCATCTGGAAAATAAAAAACAAGCCACTGAAGCCAT
 TTGTCATGACTATTAGAGAATGGTGTTTTTGGGTTTTTGGAGATCTTGCTACTTTATTA
 ATGATCCAGAAGAGTTGCACAATTCTGGCTTGTAAATACAGTGGGGAAGCTGTAACATATG
 CCTGGAAGTGCTCCTCAGGACAAGGAATGTCAAAGCCAGGCTTTGTTGAAACCATGTGC
 CTGAAAAGGCTTTGAAGGAATCTTTCGTTTCTTAGGAGTAATGAGATTCCTGGGTTTTG
 ATTTAAAAATCACCTAAAGAGGATTATAGTGGAGGAGATAATCATTAAATTCTCATCA
 CTGTAGGTCCCAGAGGAAAAACGCAAAGTCTGTCTTTCAGGATGATGTCAGAAAAGGCC
 CAAGTCTCCTTATGTTATCCTTTATTTCAAGGATAAAAACAGAGTGGCAGTGACACAAGC
 TCTCACTACCAAAAATAATTTTTCTTAAAGAGACACGCTGTCTTAAAAAGTCGGGGGGG
 ATAATCCCGCTATTAAAGGTTGCTTTAAAAATGCGAAGCCTCTATGAAAACCTCCAAAAG
 ATAAACCTTCTGGACTATTGGATTCTTTTTTCTTTTAAAGCAGGAGTCCGTGGGATTAT
 AGCTACTGGACCAAAATCCCGGGCTAAAGTTNTCTTTTTTTACCTAACCACCATCACTT
 ATTTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_007198

Insert Size:

2260 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:

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_007198.2](#), [NP_009129.1](#)

RefSeq Size: 3012 bp

RefSeq ORF: 828 bp

Locus ID: 11212

UniProt ID: [O94903](#)

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]

Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1.