

Product datasheet for SC119823

PLP1 (NM_000533) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLP1 (NM_000533) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLP1
Synonyms:	GPM6C; HLD1; MMPL; PLP; PLP/DM20; PMD; SPG2
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC119823 sequence for NM_000533 edited (data generated by NextGen Sequencing)

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ATGGGCTTGTTAGAGTGCTGTGCAAGATGTCTGGTAGGGCCCCCTTTGCTTCCCTGGTG
GCCACTGGATTGTGTTTCTTTGGGGTGGCACTGTTCTGTGGCTGTGGACATGAAGCCCTC
ACTGGCACAGAAAAGCTAATTGAGACCTATTTCTCAAAAACCTACCAAGACTATGAGTAT
CTCATCAATGTGATCCATGCCTTCCAGTATGTCATCTATGGAAGTGCCTTTTCTTCTTC
CTTTATGGGGCCCTCCTGCTGGCTGAGGGCTTCTACACCACCGGCGCAGTCAGGCAGATC
TTTGGCGACTACAAGACCACCATCTGCGCAAGGGCCTGAGCGCAACGGTAACAGGGGGC
CAGAAGGGGAGGGGTTCCAGAGGCAACATCAAGCTCATTCTTTGGAGCGGGTGTGCAT
TGTTTGGGAAAATGGCTAGGACATCCCGACAAGTTTGTGGGCATACCTATGCCCTGACC
GTTGTGTGGCTCCTGGTGTGCTGCTGCTGTGCCTGTGTACATTTACTTCAACACC
TGGACCACCTGCCAGTCTATTGCCTTCCCAGCAAGACCTCTGCCAGTATAGGCAGTCTC
TGTGCTGATGCCAGAATGTATGGTGTCTCCCATGGAATGCTTTCCCTGGCAAGGTTTGT
GGCTCCAACCTTCTGTCCATCTGCAAAACAGCTGAGTTCCAAATGACCTTCCACCTGTTT
ATTGCTGCATTTGTGGGGGCTGCAGCTACACTGGTTTCCCTGCTCACCTTCATGATTGCT
GCCACTTACAACCTTGGCGTCTTAAACTCATGGGCCGAGGCACCAAGTTCTGA
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Clone variation with respect to NM_000533.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000533 unedited GTCGCATTTGTAACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCGGCACGAGGC AAAGATACTCAGAGAGAAAAATAAAGACCGAAGAAGGAGGCTGGAGAGACCAGGATCCT TCCAGCTGAACAAAGTCAGCCACAAAGCAGACTAGCCAGCCGGCTACAATTGGAGTCAGA GTCCCAAAGACATGGGCTTGTAGAGTGCTGTGCAAGATGTCTGGTAGGGGCCCTTTG CTTCCCTGGTGGCCACTGGATTGTGTTTCTTTGGGGTGGCACTGTTCTGTGGCTGTGGAC ATGAAGCCCTCACTGGCACAGAAAAGCTAATTGAGACCTATTTCTCCAAAACTACCAAG ACTATGAGTATCTCATCAATGTGATCCATGCCTTCCAGTATGTCATCTATGGAACCTGCCT CTTTCTTCTTCTTTATGGGGCCCTCCTGCTGGCTGAGGGCTTCTACACCACCGCGCAG TCAGGCAGATCTTTGGGACTACAAGACCACCATCTGCGGCAAGGGCCTGAGCGCAACGG TAACAGGGGGCCAGAAGGGGAGGGTTCCAGAGGCCAACATCAAGCTCATTCTTTGGAGC GGGTGTGCATTGTTGGGAAAATGGCTAGGACATCCCGACAAGTTTGTGGGCATCACCT ATGCCCTGACCGTTGTGTGGCTCCTGGTGTTCCTGCTGCTGTGCCTGTGTACATTT ACTTCAACACCTGGACCACCTGCCAGTCTATTGCCTTCCCAGCAGACCTCTGCCAGTAT AGGCAGTCTCTGTGCTGATGCCNAGATGTATGGGTGTTCTCCCATGGAATGGCTTCCCTG GCAGGGTTNTGTGCTNCNNACTTCTGTNCACTGCAAAACAGCTGAGTTCCAATGACCC TTCNACTGTTTATGCTGCATTTGTGGGG
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000533 unedited GGTATGGCAACTTCCAGGGCCGGNANAGCACTGGGGAGGGGTCACAGGNATGCCACCCGG GATCTGTTCAGGAAACAGCTATGACCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTT TTTTTTGATTGAGAACATTCTTAATTTTATTTCTTTAATTTTATAAAATACACTTTGTA AGATAAGTTTCTAAAAGTTTATCCTTTATGTGTGTTAAAATTGCAATTCTATATCAGAAA TGAAGGAAACACTTTTCAGTTGATTAACCTCTTTGTGTGTATATATGTGTATGTATGC ATGTGAGGTTTTTCAGGGAAGGGTTGGTTATTTGTTATGTTATTAATCAAAACAAAACAC AAGGTACGGATTACTTCACTGTCCTTTATCTTGATTGGTTTCTTACAAAACATTTTCCCT CTCCTCCTTCTATGCAGCCTGGAAGCTTATCTTGATACTGGTTTGAAAACAAGTATCAA GTGCTTTTTGTAAAGCTCTTACATCTCCTTAAATATTGCTGAAACCCTTTGGGGGAAA AGAACAACACAACCTTTTACAACAAAAGAACTGTAGTACAAAATCTTTCCTTCAATTA CCAATCAGACTTTTTTTTTTTTTTAAACCAAAGTTAACAAAACAGGAAAAGACTGAAATC TGGGAGCTATTCAGGTCTCAAACCTTTCTGCCTGTCCTTTTTCTGGAAGCTTACCAAC TGAATAGCTGATGACTGGTGCATTTCTGTATGTGATCTATATCAGGAGAAAATACCTTTA TGNTAAACCTACTCTTACACACCAGATACATTGCTAATAAATCATTTTCTTAGCTAGAAG ACGATCGATACTCAATGG
Restriction Sites:	NotI-NotI
ACCN:	NM_000533
Insert Size:	2900 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).
RefSeq:	NM_000533.3 , NP_000524.3
RefSeq Size:	3038 bp
RefSeq ORF:	834 bp
Locus ID:	5354
UniProt ID:	P60201 , A8K9L3

Domains:	Myelin_PLP
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>This gene encodes a transmembrane proteolipid protein that is the predominant component of myelin. The encoded protein may play a role in the compaction, stabilization, and maintenance of myelin sheaths, as well as in oligodendrocyte development and axonal survival. Mutations in this gene cause Pelizaeus-Merzbacher disease and spastic paraplegia type 2. Alternatively splicing results in multiple transcript variants, including the DM20 splice variant. [provided by RefSeq, Feb 2015]</p> <p>Transcript Variant: This variant (1, also known as PLP) encodes the longest isoform (1). Variants 1 and 3 encode the same isoform (1).</p>