

Product datasheet for **SC121107**

PLP1 (NM_199478) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLP1 (NM_199478) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLP1
Synonyms:	GPM6C; HLD1; MMPL; PLP; PLP/DM20; PMD; SPG2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_199478, the custom clone sequence may differ by one or more nucleotides

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ATGGGCTGTAGAGTGCTGTGCAAGATGTCTGGTAGGGGCCCTTTGCTTCCCTGGTGGCCACTGGAT
TGTGTTTCTTTGGGGTGGCACTGTTCTGTGGCTGTGGACATGAAGCCCTCACTGGCACAGAAAAGCTAAT
TGAGACCTATTTCTCAAAAACCTACCAAGACTATGAGTATCTCATCAATGTGATCCATGCCTTCCAGTAT
GTCATCTATGGAAGTGCCTCTTTCTTCTCCTTTATGGGGCCCTCCTGCTGGCTGAGGGCTTCTACACCA
CCGGCGCAGTCAGGCAGATCTTTGGCGACTACAAGACCACCATCTGCGGCAAGGGCCTGAGCGCAACGTT
TGTGGGCATCACCTATGCCCTGACCGTTGTGTGGCTCCTGGTGTTCCTGCTGCTGTGCTGTGCTGTGAC
ATTTACTTCAACACCTGGACCACCTGCCAGTCTATTGCCTTCCCAGCAAGACCTCTGCCAGTATAGGCA
GTCTCTGTGCTGATGCCAGAATGTATGGTGTCTCCCATGGAATGCTTTCCTGGCAAGGTTTGTGGCTC
CAACCTTCTGTCCATCTGCAAAACAGCTGAGTTCCAAATGACCTTCCACCTGTTTATTGTGCTCATTTGTG
GGGGCTGCAGCTACACTGGTTTCCCTGCTCACCTTCATGATTGCTGCCACTTACAACCTTTGCCGCTCTTA
AACTCATGGGCCGAGGCACCAAGTTCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_199478 unedited CGCGAATTCGGCACGAGGCCCTTCAGCTGAACAAAGTCAGCCACAAAGCAGACTAGCCAG CCGGCTACAATTGGAGTCAGAGTCCCAAAGACATGGGCTTGTTAGAGTGCTGTGCAAGAT GTCTGGTAGGGGCCCCCTTTGCTCCCTGGTGGCCACTGGATTGTGTTTCTTTGGGGTGG CACTGTTCTGTGGCTGTGGACATGAAGCCCTCACTGGCACAGAAAAGCTAATTGAGACCT ATTTCTCAAAAACCTACCAAGACTATGAGTATCTCATCAATGTGATCCATGCCTTCCAGT ATGTCATCTATGGAAGTGCCTCTTCTTCTTCTTATGGGGCCCTCCTGCTGGCTGAGG GCTTCTACACCACCGGCGCAGTCAGGCAGATCTTTGGCGACTACAAGACCACCATCTGCG GCAAGGGCCTGAGCGCAACGTTTGTGGCATCACCTATGCCCTGACCGTTGTGTGGCTCC TGGTGTTCCTGCTCTGCTGTGCTGTACATTTACTTCAACACCTGGACCACCTGCC AGTCTATTGCCTTCCCCAGCAAGACCTCTGCCAGTATAGGCAGTCTCTGTGCTGATGCCA GAATGTATGGTGTCTCCCATGGAATGCTTCCCTGGCAAGGGTGTGGCTCCAACCTTC TGCCATCTGCAAAACAGCTGAGTTCAAATGACCNINCACTGTTTATTGCTGCATTTG NGGGGGCTGCAGCTACACTGGTTTCCCTGCTCACCTTCATGANTGCTGNCACTTACAAC TTGNCGTCCTTAACCTCATGGGCCGAGGACCANTTTTATCCCCGTAAAAATCCCCTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_199478
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:	<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:	<u>NM_199478.1</u> , <u>NP_955772.1</u>
RefSeq Size:	2933 bp
RefSeq ORF:	729 bp
Locus ID:	5354
UniProt ID:	<u>P60201</u>
Cytogenetics:	Xq22.2
Protein Families:	Druggable Genome, Transmembrane

Gene Summary:

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]

Transcript Variant: This variant (2, also known as DM20) uses an alternate in-frame donor splice site compared to variant 1. It encodes a shorter isoform (2) than isoform 1.