

Product datasheet for **SC322940**

PLP1 (NM_001128834) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLP1 (NM_001128834) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLP1
Synonyms:	GPM6C; HLD1; MMPL; PLP; PLP/DM20; PMD; SPG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC322940 representing NM_001128834. Blue=Insert sequence Red=Cloning site Green=Tag(s)

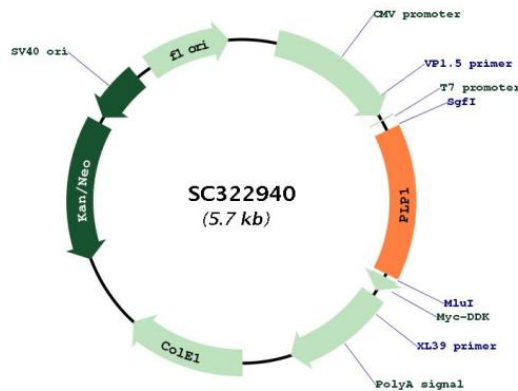
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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGGGCTTGTAGAGTGCTGTGCAAGATGTCTGGTAGGGGCCCTTTGCTTCCCTGGTGGCCACTGGA
TTGTGTTTCTTTGGGGTGGCACTGTTCTGTGGCTGTGGACATGAAGCCCTCACTGGCACAGAAAAGCTA
ATTGAGACCTATTTCTCAAAAACCTACCAAGACTATGAGTATCTCATCAATGTGATCCATGCCTTCCAG
TATGTCATCTATGGAACGCCTCTTCTTCTTCTTTATGGGGCCCTCCTGCTGGCTGAGGGCTTCTAC
ACCACCGGCGCAGTCAGGCAGATCTTTGGCGACTACAAGACCACCATCTGCGCAAGGGCCTGAGCGCA
ACGGTAACAGGGGCCAGAAGGGGAGGGTTCCAGAGGCCAACATCAAGCTCATTCTTTGGAGCGGGTG
TGTCAATGTTTGGGAAAATGGCTAGGACATCCCGACAAGTTTGTGGGCATCACCTATGCCCTGACCGTT
GTGTGGCTCCTGGTGTGTTGCCTGCTGCTGTGCTGTGTACATTTACTTCAACACCTGGACCACCTGC
CAGTCTATTGCCTTCCCCAGCAAGACCTCTGCCAGTATAGGCAGTCTCTGTGCTGATGCCAGAATGTAT
GGTGTTCATCCCATGGAATGCTTTCCCTGGCAAGGTTTGTGGCTCCAACCTTCTGTCCATCTGCAAAAACA
GCTGAGTTCCAAATGACCTTCCACCTGTTTATTGCTGCATTTGTGGGGCTGCAGCTACACTGGTTTCC
CTGCTCACCTTCATGATTGCTGCCACTTACAACTTGCCGTCTTAAACTCATGGCCGAGGCACCAAG
TTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:



ACCN: NM_001128834

Insert Size: 834 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001128834.2](#)

RefSeq Size: 3152 bp

RefSeq ORF: 834 bp

Locus ID:	5354
UniProt ID:	P60201
Cytogenetics:	Xq22.2
Protein Families:	Druggable Genome, Transmembrane
MW:	30.1 kDa
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 (3) differs in the 5' UTR compared to variant 1. Variants 1 and 3 encode the same isoform (1).</p>