

## Product datasheet for **SC118502**

### PLP2 (NM\_002668) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PLP2 (NM_002668) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLP2
Synonyms:	A4; A4LSB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118502 sequence for NM_002668 edited (data generated by NextGen Sequencing)

```
ATGGCGGATTCTGAGCGCCTCTCGGCTCCTGGCTGCTGGGCCCTGCACCAACTTCTCG  
CGCACTCGAAAGGAATCCTCCTGTTTGTGAGATTATATTATGCCTGGTGATCCTGATC  
TGCTTCAGTGCCTCCACACCAGGCTACTCCTCCCTGTCGGTGATTGAGATGATCCTTGCT  
GCTATTTTCTTTGTTGTCTACATGTGTGACCTGCACACCAAGATACCATTCACTCACTGG  
CCCTGGAGTGATTTCTTCCGAACCCTCATAGCGGCAATCCTCTACCTGATCACCTCCATT  
GTTGTCCTTGTTGAGAGAGGAAACCACTCCAAAATCGTCGCAGGGGTAAGGCTAATC  
GCTACGTGCCTCTTTGGCTATGATGCCTATGTCACCTTCCCGTTCGGCAGCCAAGACAT  
ACAGCAGCCCCACTGACCCCGCAGATGGCCCGGTGTAG
```

Clone variation with respect to NM\_002668.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002668 unedited  
 AAATTTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGGACTCCAGCCCA  
 TGCCATGGCGGATTCTGAGCGCCTCTCGGCTCCTGGTGTGGGCCGCTGCACCAACTT  
 CTCGCGCACTCGAAAGGGAATCCTCCTGTTTGTGAGATTATATTATGCCTGGTATCCT  
 GATCTGCTTCAGTGCCTCCACACCAGGCTACTCCTCCCTGTCGGTGATTGAGATGATCCT  
 TGCTGCTATTTTCTTTGTGTCTACATGTGTGACCTGCACACCAAGATAACCATTCACTCA  
 CTGGCCCTGGAGTGATTCTTCCGAACCCCTCATAGCGGCAATCCTCTACCTGATCACCTC  
 CATTGTTGTCCTTGTGAGAGAGGAAACCACTCCAAAATCGTCGACGGGTACTGGGCCT  
 AATCGCTACGTGCCTCTTTGGCTATGATGCCTATGTACCTTCCCGTTCCGCGAGCCAAG  
 ACATACAGCAGCCCCACTGACCCCGCAGATGGCCCGGTAGGCGAACTTCCCTCATT  
 CTCTCTGCAATCTGCAAACTCCTCCATTGAAATAACTCCTCCCAACCCCAACAACAA  
 CATTCCCAGCAGACCACTCCCACCCCTCTTTGAGGTAAGTGCCTTTATTGNGAGAC  
 TTTTGTCTCCAGCCTGCCAATCAACCCTCTGGGTGTGGCCACCATATGTGTGCCTA  
 NGTCTCCTTCTGCACGATCCAATAGGAGACACAGTTCTGACTGAACCATGCCCCACC  
 TAAGTCACAAAAGAAGGAAGTGGGGAGTTAGATTCAGAGTCCACGCCCTANNGTTGGAC  
 CCACTCCANNATATCTCCTCGTGGGGTGGGGGTCTATAAAGGGATAATGAATATAACAT  
 TGTTAAATATTAATAAAAAAAAAAACTCGCTCTAATGCGCCGCGCCT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002668 unedited  
 GTTTTGGACCCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTATATTTTAA  
 CAATGTTTATTATTCATTTATCCCTCTATAGAACCACCACCCACCCGAGGAGATTATTT  
 GGAGTGGGTCCCAACCTAGGGCCTGGACTCTGAAATCTAACTCCCCTCCCTCATT  
 GTGACTTAGGTGGGGCATGGTTCAGTCAGAAGTGGTGTCTCCTATTGGATCGTGCAGAA  
 GGAGGACCTAGGCACACACATATGGTGGCCACCCAGGAGGTTGATTGGCAGGCTGGA  
 AGACAAAAGTCTCCCAATAAAGGCACTTTACCTCAAAGAGGGGGTGGGAGTTGGTCTGC  
 TGGGAATGTTGTTGTTGGGGTGGGGAGGAGTTATTTCAATGGAGGAGTTATTTGCAGATT  
 GCAGAGAGAAATGAGGGAAGTTCGCCTACACCGGGCCATCTGCGGNGTCAGTGGGGGCTG  
 CTGTATGTCTTGGCTGCCGAACGNGAACGTGACATAGGCATCATACCCAAAGAGGCACG  
 TAGCGATTAGGCCATACCCCTGCGACGATTTGGAGGGTTTCTTCTCAACAAGACAACA  
 TGAAGGAACAGGTATAGGATGCCGCTATGAAGGTCGGAAGAAAACCTCCGGCCATTGA  
 GAATGGACTTTGGGGCCCGGCCCTTGTGCACCCACAAAAAATTCACCAGGGTCTTTA  
 ATCCCAACGGGGAGTCCCGGGCGGGGGGCTGAACCAACACGGTCCCCCGCCTAA  
 TAAACCCCAACGGGGGAACCTTTCAAGCCTAAAAATTGGGCATCCCCCTCCCC  
 CCGACCCCTAGGGTCCAAAACCATGGATGGCCGGAACCCCCCCCCCTTTCCCG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002668

**Insert Size:**

860 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\\_002668.1](#), [NP\\_002659.1](#)

**RefSeq Size:** 945 bp

**RefSeq ORF:** 459 bp

**Locus ID:** 5355

**UniProt ID:** [Q04941](#)

**Cytogenetics:** Xp11.23

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes an integral membrane protein that localizes to the endoplasmic reticulum in colonic epithelial cells. The encoded protein can multimerize and may function as an ion channel. A polymorphism in the promoter of this gene may be linked to an increased risk of X-linked cognitive disability. A pseudogene of this gene is found on chromosome 5. [provided by RefSeq, Jan 2010]