

Product datasheet for **RG22024**

PLP2 (NM_002668) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PLP2 (NM_002668) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PLP2
Synonyms: A4; A4LSB
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG22024 representing NM_002668
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGATTCTGAGCGCCTCTCGGCTCCTGGCTGCTGGCGCGCCTGCACCAACTTCTCGCGCACTCGAA
 AGGGAATCCTCTGTTTCTGAGATTATATTATGCCTGGTGATCCTGATCTGCTTCAGTGCCTCCACACC
 AGGCTACTCCTCCCTGTCGGTGATTGAGATGATCCTTGCTGCTATTTCTTTGTTGTCTACATGTGTGAC
 CTGCACACCAAGATAACCATTCATCAACTGGCCCTGGAGTGATTTCTCCGAACCCCTCATAGCGGCAATCC
 TCTACCTGATCACCTCCATTGTTGCTCTTGTGAGAGAGGAAACCACTCCAAAATCGTCGCAGGGGTACT
 GGGCTAATCGCTACGTGCCTCTTTGGCTATGATGCCTATGTACCTTCCCCGTTCCGCGAGCCAAGACAT
 ACAGCAGCCCCCACTGACCCCGCAGATGGCCCGGTG

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG22024 representing NM_002668
 Red=Cloning site Green=Tags(s)

MADSERLSAPGCWAACTNFSRTRKGILLFAEIIILCLVILICFSASTPGYSSLSVIEMILAAIFFVVMCD
 LHTKIPFINWPWSDFRTLIAAILYLITSIVVLVERGNHSHKIVAGVLGLIATCLFGYDAYVTFPVRQPRH
 TAAPTDPADGPV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_002668

ORF Size: 456 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

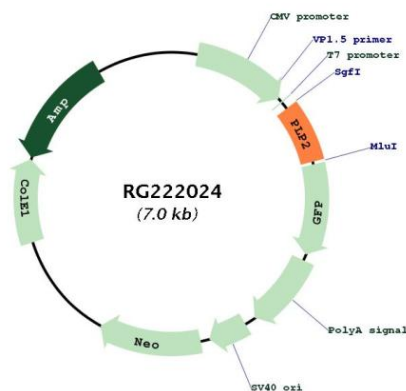
RefSeq: [NM_002668.3](#)

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]

Product images:



Circular map for RG222024