

## Product datasheet for **SC108655**

### PNPO (NM\_018129) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PNPO (NM_018129) Human Untagged Clone
Tag:	Tag Free
Symbol:	PNPO
Synonyms:	HEL-S-302; PDXPO
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108655 sequence for NM_018129 edited (data generated by NextGen Sequencing)

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ATGACGTGCTGGCTGCGGGGCGTCACGGCGACGTTGCGGGCGACCTGCCGAGTGGCCAGGC
TACCTCAGTCACCTGTGTGGTCGACGTGCTGCCATGGACCTGGGACCCATGCGCAAGAGT
TACCGCGGGGACCGAGAGGCATTTGAGGAGACTCATCTGACCTCCCTTGACCCAGTGAAA
CAGTTTGTGCTGCCTGGTTTGGAGGCTGTTGAGTGTCTGACATAGGGGAAGCCAATGCC
ATGTGTCTGGCTACCTGCACCAGAGATGGAAAACCCTCTGCTCGCATGTTGCTGCTGAAG
GGCTTCGGGAAAGATGGCTTCCGCTTCTCACTAACTTCGAGAGTCAAAAAGGAAAAGAG
CTGGACTTAATCCCTTTGCTTCCCTTGTCTTCTACTGGGAGCCACTTAACCGTCAGGTG
CGTGTGGAAGGCCCTGTGAAGAACTGCCTGAGGAGGAGGCTGAGTGTACTTCCACTCC
CGCCCCAAGAGCAGCCAGATTGGGGCTGTGGTCAGCCACCAGAGTTCTGTGATCCCTGAT
CGGGAGTATCTAAGAAAGAAAAATGAGGAACTGGAACAGCTCTACCAGGATCAAGAGGTG
CCCAAGCCAAAATCCTGGGGTGGCTATGTCTGTACCCTCAGGTGATGGAGTTCTGGCAA
GGTCAAACCAACCGCCTGCATGACCCGATAGTCTTTTCGGCGGGGCTACCCACAGGAGAT
TCCCCTTTGGGGCCATGACCCACCGGGGAGGAAGACTGGCTCTATGAGAGACTTGCA
CCTTAA

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Clone variation with respect to NM\_018129.3  
347 g=>a;552 g=>a



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_018129 unedited  
 GGTCAACATTTTGTAAATACGACTCACTTATAGGGCGGCCGCGATTTCGGCACGAGGCTCAA  
 AGGAACCCAGTGCCGGGCCACAGCCGGGTACGTGGCCGGCGGCCCCCATGACGTGCTG  
 GCTGCGGGGCGTCACGGCGACGTTCCGGCGACCTGCCAGTGGCCAGGCTACCTCAATCA  
 CCTGTGTGGTTCGACGTGCTGCCATGGACCTGGGACCCATGCGCAAGAGTTACCGCGGGGA  
 CCGAGAGGCATTTGAGGAGACTCATCTGACCTCCCTTGACCCACTGAAACAGTTTGTGTC  
 CTGGTTTGAGGAGGCTGTTTCAGTGTCTGACATAGGGGAAGCCAATGCCATGTGTCTGGC  
 TACCTGCACCAGAGATGAAAACCTCTGCTCGCATGTTGCTGCTGAAGGGCTTCGGGAA  
 AGATGGCTTCCGCTTCTCACTAACTTCGAGAGTCAAAAAGGAAAAGAGCTGGACTCTAA  
 TCCCTTTGCTTCCCTTGTCTTCTACTGGGAGCCACTTAACCGTCAGGTGCGTGTGGAAGG  
 CCCTGTGAAGAACTGCCTGAGGAGGAGGCTGAGTGTACTTCCACTCCCAGCCCAAGAG  
 CANCCAAATCGGGGCTGTGGTACGCCACCAAAGTTCTGTGATCCCTGATCGGGAGTATCT  
 AATAAAGAAACATGAGGAACTGGAACAGCTCTACCAGATCACAGAGTCCCAAGCCAAA  
 ATCCTGTGGTGGCTATGCTGTCCCTCACGTGATGGAGTTCTGGCCAGTTCAAACCTC  
 CCGCTGCATGACCGGATAATCTTCCGCGGTGCCTACCCAGGAAATTCCTCTTTGGGG  
 CCCATTGACCACCTGGGAGAACTGGCTCTTAGAGAGACTTGCCCTAACTTTGGGG  
 ACTGCTTGCCCAATGGAGCTTGCTCGGGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_018129 unedited  
 GGGGGCGGGGTCGCACAACCACACTAAACAAAAGGANGTTGGTAAACTATAAACCTT  
 TTTTTGTGGAATGTCTGCCTCACATACACAGCAGTTTCCATCTTAAAACATACATAGT  
 AAAGCTCGATTAATAATCTTCTGTCTTATTGGTACCAGCACATGAAGCCCTTCTACAAA  
 TTCTGACGGACTGGGAATAAAAATTCCTAGTGACAGCCACTCCTTCTCAGGCAGGTGC  
 GATTGCCTGAAATCTCTCCAATATCGACATGAAACCTGCTTCCCTGTAACCTCCCCTGTA  
 ATTATGTGGGTCCCTTGTAGCCACAGAAAAGGCAGTAATCAGTATGGGAAGTGCTTAAA  
 AACTTTCTATCCCGTCAAGCGTGGTGGCTCATGTCTGTAATCCCAGCACTTTGGGAGGT  
 CCAGGTGGGCATTATCACTTTATGTATGAGTTGGAGACCACACTGGTCAACATAATGAA  
 ACCCTCGTCTCCTGGGTGCGGTGGCTAATGCCTGTAATCCAACCTTTCCGTAGGCTGA  
 GGTGGGCGGATCACATGGTCAAAAGATGGATACATCCTGGCCTACATGGTAAACCTCTT  
 TTCTACTAAACATACAACATTTAACTGGTCTCGTGGCTTTTGTCTTTATTTCTATCTA  
 CTTGGTGTGCTTGGCCGCGCATAATTGCTTTGAACACTGGCGAGGCATACGTTGCCAT  
 CGATCTCCCTACACCCCTTTGTACTCTCCCTCTGGGAGGACAGACAGTAAACTTCTTCT  
 TTTTAAATAATAAGAATTTGTACACACTATTATTATAACTTTTCTTTCTCCCCTCATT  
 CCTTTTCTTACCTTTGCTCCCCCTCACTAAATTTCTTTCTTCCCTTCTCTATTATAC  
 TTACCCACATTGCCACCTCCTCCTGTTATATTTGACCTCTTCTAAGCGCGTGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_018129

**Insert Size:**

2380 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\\_018129.1](#), [NP\\_060599.1](#)

**RefSeq Size:** 2396 bp

**RefSeq ORF:** 786 bp

**Locus ID:** 55163

**UniProt ID:** [Q9NVS9](#)

**Cytogenetics:** 17q21.32

**Domains:** Pyridox\_oxidase

**Protein Pathways:** Metabolic pathways, Vitamin B6 metabolism

**Gene Summary:** The enzyme encoded by this gene catalyzes the terminal, rate-limiting step in the synthesis of pyridoxal 5'-phosphate, also known as vitamin B6. Vitamin B6 is a required co-factor for enzymes involved in both homocysteine metabolism and synthesis of neurotransmitters such as catecholamine. Mutations in this gene result in pyridoxamine 5'-phosphate oxidase (PNPO) deficiency, a form of neonatal epileptic encephalopathy. [provided by RefSeq, Oct 2008]