

Product datasheet for **SC103078**

PNPO (AK026905) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNPO (AK026905) Human Untagged Clone
Tag:	Tag Free
Symbol:	PNPO
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for AK026905, the custom clone sequence may differ by one or more nucleotides

```
TATATATAGAGCACCTGGCACAGTGCCCGGCAGAGGGTGGGTTTGTAGATCCCTCTGTAACCTCTCAGC
CTTGTGGTGCACACTGGCTTTTTTGTCTGCTGGCTTCTGGCCTCTGCTTCGTGGCCTTGCAGCTTCATG
CTTAAGCACGGAGCAGGTTTGAAGGAAGAAACATGGAGTAGTGGCCCCGACTGGAAGCTTCTTCGGAC
AGGTGTACAACCCCTCCAGAGCCCTGTAGTTGCTGCCACTGTCAGTCTGCTGCTGCAACCTCAAGATA
AGGATCAGACTGCCAAGTTCAGCCTGTCTGGGTGTCAGCCTGGAGCCCAGGAGCAGCGGTGGCCAT
TCATTGCTGCTTGTGAGAGAAGAATGCAGCTATCTTCTTCTGCGTGTGCTGGCAGCCGCTGGGTGGC
ATTAGTAACCCAGCCACCCCGTGGGCTTCTCCACTTCAGCTCAGGTCTTTGCTGAGAGCCTGAGTTGTA
GACGGAGGCTGTGAATGCGGGCTTGGTGAAGTGGGCTGAGCACGCCAGCAGATGGGTGGGCGATGGGCTT
CAGCAGTGTCCACTGCTGACTGTCAGTCTGGGAGTGGTGGCGTCCCCTTCTCCCTCTGCCTCACAGAA
GTTGCCTCTGAAGTTGCCGCTTAGTCTGAAACTGGGGGTGCAGGGGTGAGGGGTAGCGGGCAGCTT
TGCAGAGGAGAGGTTAGGCAGGCAGGCAAAGCTTGATGGGTTTTGTGTTTTGCAGAGCACCGTGGCCTCC
TGGGATGCTAAGGTACCCCTCAGGTATCCAGGTGTTGCTCATGGCAACTCGCTTCCCTGGCGGTGTG
CAAAGCCCTCCAGGCCATGCTTGTCTTACCAGGCCTTTCTTCTCCTTCCAGAGGCCCTGGGAGCA
GCTCCTGAGCTGGTGTGAGGAGCCTCAAGGTACAAGTGGGAAAGAAATTGGAGGCCACAGGCTGGACA
CCTGATTGGAACAAGAGCTATAGCCTGAGCGTCCAGGTGTCCAGCCAAGTCCCAACCCATCTTCCCTGA
GCCGCTTAAATTTACATTGTTCTTGTCTCCCTGGAGGAATGGCAAGTTTTCTGTTTTCTCTCCCTACA
TGGATCCATATCTTCTATAGCCACACAGAAGGTGCCAAGTAAATGTTTGTGAATGAATGACTGACCTC
TGGACAAGAGGTTTTCTGCTTCCCATTTGATTCCAGCTGATCTCTGGGCTTCTTCCATGGTACCGAA
GGAAGGTAAGTTTTCTTCAAGCAGCGTGCCTCTGGGCTCTCAGCTGTGCCATTTCTCTTCCCC
ACAGGGAGGATGTCCATCCAGAGCCTCCCTGGGCCCTGCTCTGCTGGCCATACGTGTGTGGGCTG
GGATTCTGCTCCTGTCTTGTCTCATCTGCTCCCTATGGTTTTGCTCCTTCTCCATCCCCCACTC
ATCTGGGACCCTCCAGCCACTAAGAGACTCCACAGCAGCCTAGGCCAGCTCTAGCCTAGTGTCTTCCCT
TTGCTAGGTCCCCACTCTCCTGCATGAGGCGTCCACGCCAGGCACTGTCTTCACTGTGTAATGTCACCCA
CTCCATCTTAGGGATGCTTGGTGCATATTTTGAAGGGGGGTGTTTGGAGCCTCTCCCTTCTCTTCCC
CCATCTCACCTCCAGCCTTCGGAGAGAGAAGTATCATGTGACCGCGGAAACAGGGATCAGAAAGGAAA
TCAAATAACAGGAATCCATCCTGGACTGGGCTGACAAAGAGCTTGGACCAGTGTGGATGCAA
TTTGGGCGGTTTGGTTTGAATGGGGGAAATATGAGTTTCCAGAACAGGGTATTTGAAATCATGGCTACTC
AGAAAATTGAGGCAGTGGTCACTCTGGCTGTAATGCGGCACTCTGTGATTGTCAAGACCTTTGTAATTG
AGGGTGCCTTGGCTGGTCCAGGATATACTTCATCATAAGCCATATCTGGAGCCAGCATGAATTACAGGG
GACAGGAATCCCATTCATCGGTCACTTCCACATGGGGCTAGGGATTTGCTGTGTACACTCATTCCATC
TTCTCAGTGGCTCTGTGAAGTAGGTTTTGATATCCCTTTTACAGATGAGAGAGTGGAGACTCTGAAA
AGTTAAATAACTGGCCAGATTTAGTTAGTAAACAGCAGAGGTGGACTTTGACCCGTTGCTCTACTGGC
CCCAAAGCCTGTGTTTATGTTACACACTGGTCCCCTCCACTCCAGGTGTCTGTACTTTTTGTGTACCT
TTGAGAAAAGTGGTCTTTTAGTTTCTTTAGCCACAGGTGAGCAGCTTGGACTCTGGGGATACACTAAAC
TTGCCAGCTCTTCAATCCTCACATCCTGTGTTTTCATTGCTAGTGTCCCTCCAGGATGGATATCCAGT
CCTCGCAGCTCAGGGCTCTGCACTCCCATGAAAGAAGCATAACAATTAGCACAAAAGCAAGTACTGG
GGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGGAGGCGAGGTTGCAGTGAGCCAAAATCACACCATGG
CTCTTAACCTGGGAGACAAGAGCGAACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

5' Read Nucleotide Sequence:	>OriGene 5' read for AK026905 unedited TGTAATACGACTTACTATAGNNGCGCGCGNAATTCGGCACGAGGGTAGCGGGCATCT TTGCAGAGGAGAGGTTAGGCAGGCAGGCAAAGCTTGATGGGTTTTGTGTTTTGCAGAGCA CCGTGGCCTCCTGGGATGCTAAGGTCACCCTCAGGTCATCCAGGTGTTGCTCATGGCA ACTCGCTCCCTGGCGGTTGTCAAAGCCCCTCCAGGCCATGCTTGTCTTACCAAGGCC TTTTTTCTCCTCAGAGGCCCTGGGAGCAGCTCCTGAGCTGGTGTGAGGAGCCTCAA GGTACAAGATGGGAAAGAAATTGGAGGCCACAGGCTGGACACCTGATTGGAACAAGAGCT ATAGCCTGAGCGTCCAGGTGTCCAGCCAAGTTCCAACCCATCTCCCTGAGCCGCTTAA ATTTACATTGTTCTTCTGCTCCCTGGAGGAATGGCAAGTTTTCTGTTTTCTCTCCCTAC ATGGATCCATATCTTCTATAGCCACACAGAAGGTGCCAAGTAAATGTTTGTGAATGAA TGACTGACCTCTGGACAAGAGGTTTTCTGCTTCCCCATTGATCCAGCTGATATCTGGG CTTCTTTCCATGGCTACCGAAGGAAGAGTAAAGTTTTCTTTCAAGCAGCCGTGCCTCTGG GCTCTCAGCTGTGCCATCTTTCTTCCACAGGGAGGATGTCCATCCCAGAGCCTCC CTGGGGCCCTGCCTCTGTGCCATAACGTGTGCGCTGCGATCCTGCCTCTGCCTTG NCCCATCTGCTCCTATGGGTTTGTCTTCTTCCATCCCCCTNATCTGGTACCCTCCAC CACTAAGAACTCCACGCAGCCCTAGCCAGTCTACCCTATGTCTTCTTTGCTAGGTCCCA CTTCTGCTTGAGCGTCACCCAGGCTGCTTATTTGGTATGCACCCTCATTGGATGCG
Restriction Sites:	NotI-NotI
ACCN:	AK026905
Insert Size:	2000 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:	<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:	AK026905.1
RefSeq Size:	2654 bp
RefSeq ORF:	2654 bp
Locus ID:	55163
Cytogenetics:	17q21.32
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]