

Product datasheet for **SC320715**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_018129.2
 GTGCCGGGCCACAGCCGGGTACAGTGGCCGGCGGCCCCCATGACGTGCTGGCTGCGGGG
 CGTCACGGCGACGTTTCGGGCGACCTGCCGAGTGGCCAGGCTACCTCAGTCACCTGTGTGG
 TCGCAGTGTCCATGGACCTGGGACCCATGCCAAGAGTTACCGCGGGGACCGAGAGGC
 ATTTGAGGAGACTCATCTGACCTCTCTTGACCCAGTGAACAGTTTGCTGCCTGGTTTGA
 GGAGGCTGTTTCAGTGTCTGACATAGGGGAAGCCAATGCCATGTGTCTGGCTACCTGCAC
 CAGAGATGGAAAACCTCTGCTCGCATGTTGCTGCTGAAGGGCTTCGGGAAAGATGGCTT
 CCGCTTCTTCACTAACTTCGAGAGTCGAAAAGGAAAAGAGCTGGACTCTAATCCCTTTGC
 TTCCCTTGTCTTCTACTGGGAGCCACTTAACCGTCAGGTGCGTGTGGAAGGCCCTGTGAA
 GAAACTGCCTGAGGAGGAGGCTGAGTGCTACTTCCACTCCCGCCCAAGAGCAGCCAGAT
 TGGGGCTGTGGTCAGCCACCAGAGTTCTGTGATCCCTGATCGGGAGTATCTGAGAAAAGAA
 AAATGAGGAACTGGAACAGCTCTACCAGGATCAAGAGGTGCCAAGCCAAAATCTGGGG
 TGGCTATGTCCTGTACCCTCAGGTGATGGAGTTCTGGCAAGGTCAAACCAACCGCTGCA
 TGACCGGATAGTCTTTCGGCGGGGCTACCCACAGGAGATTCCCCTTTGGGGCCCATGAC
 CCACCGCGGGGAGGAAGACTGGCTCTATGAGAGACTTGACCTTAACTCTGGGACCTGCT
 GGCCAGAGTGGAGCTAGGGCTAGGTGTCAAGAGAGGGTGTGGGATTGGGACCCAGGCC
 TTCTTTCTAAACTCAACCCATTTCCCTCCCTACCCCTTATCTTCAGGACTCTTCAGAGCT
 AATCCTCTAAGTTCTCTGTAAGTTCAGTTGTTCTCAGTTAGCTGGTCAAGTGGAGTGAAT
 GGTGGCGTAGAGAATCACAAATGGAAAATAATTCATAATTTTTTTTTGACCTTGCCCTA
 TGATTGATTAGGATAGCTCCCTCTAGGGGTAGCAGCCGGTGTGACTCCCTTTCTGGTGAC
 AGACAGGGCCCCAGCAGCCCTGTCTGTTACCATGTGAGTCATACTGGCCAAAGCTTAGTC
 CTAGCATATGCACCTGAGCCAACCTGGCCAATCAGATTGTTTTGTCAATAATTTGAAATT
 TGAATGGAGAGATCCAGAACCTTGGGAGTCATTAAGCCAAGTCATTCATAGCAGCCAG
 GAAACAATAGGAACCAAAAGCCTCTGCCTGCTGCTATTGCAATTCAGGATCTCTCCTT
 CCCTGGATCCCTCCCTCCAGGTCTGGGCTGTGCAGTTCCCTCCCTGCCTTAAAACACC
 CCACTATCTGTAAAGTCTCTCTCTCTCTTTTTTTTTTTTTTTTACTTAATCTAGCTAGA
 ATCTATTTCTGTTGATTACAACCTAACTAACTCAATTTACGGATAGGACTTTTTTTTTTCT
 TTTTTTCTTTTTCTTTCTTTTTTTTTTTTTTTGAGATGGAGTCTCACTCTGTCACCCAGGC
 TGGAGTGCAGTGGTGTGATCTTGGCTCACTGAAACCTCTGCCTCCAGGTTCAAGCAATT
 CTCCTGCCTCAGCTCCCAAGTAGCTGGGACTACAGGCACACGCCACCACGCCAACTAA
 TTTTTGTATTTTTAGTAGAGATGGGGTTTACCATGTTGGCCAGGATTGTCTCCATCTCT
 TGACCTTGTGATCCACCCACCTCAGCCTCCCAAAGTGTGGGATTACAGGCATGAGCCAC
 CACACCCAGCGAGACGGGGTTTCAATATGTTGGCCAGGCTGGTCTCCAACCTCTGACCTA
 AAGTGATCTGCCCGCCTTGGCCTCCCAAAGTGTGGGATTACAGACATGAGCCACCACGC
 TTGGCCGGGATAGTATATTTTTATAGCACTTCCCTACTGATTGCTGCCTTCTCTGTGGC
 TACAAGGGACCCACAGAATTACAGGGAAGTTACAGGGAAGCAGGTTTCATCTCAATATTG
 GGAGAGATTTCAAACAATCACACCTGCCTGAGAAGGAGTGGGCTGCTCACTAGGAATTTTT
 ATCCCAGTCCGTCAGGAATTTGTAGAAGGGCTTCATGTGCTGGTACCAATAGGACAGG
 AAGATTTTAAATCAGCTTTACTATCTATGTTTTTTTTATGGAACTGTGTATGTATACAT
 ACATTTTCCAAAAAGAAAAATTAATGATTATAGAGATTAATAAAAAAAAAAAAAAAAAAAAA
 AA

Restriction Sites: Please inquire

ACCN: NM_018129

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:	<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:	NM_018129.2 , NP_060599.1
RefSeq Size:	3437 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]