

PNPO cDNA

Catalog Number: ATGD0136

PRODUCT INFORMATION

Catalog number

ATGD0136

Product type

cDNA

Species

Human

NCBI Accession No.

NP_060599.1

Alternative Names

HEL-S-302, PDXPO

mRNA Refseq

NM_018129.3

OMIM

603287

Chromosome location

17q21.32

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

786bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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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. [

DATA

Sequence nucleotides

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ATGACGTGCTGGCTGCGGGGCGTCACGGCGACGTTGCGGGCGACCTGCCGAGTGGCCAGGCTACCTCAGTCACCTGTGTGG
TCGCAGTGCTGCCATGGACCTGGGACCCATGCGCAAGAGTTACCGCGGGGACCGAGAGGCATTTGAGGAGACTCATCTGA
CCTCCCTTGACCCAGTGAAACAGTTTGCTGCCTGGTTTGAGGAGGCTGTTCAAGTGTCTGACATAGGGGAAGCCAATGCCA
TGTGTCTGGCTACCTGCACCAGAGATGGAACACCTCTGCTCGCATGTTGCTGCTGAAGGGCTTCGGGAAAGATGGCTTCC
GCTTCTTCACTAACTTCGAGAGTCGAAAAGGAAAAGAGCTGGACTCTAATCCCTTTGCTTCCCTTGTCTTCTACTGGGAGCC
ACTTAACCGTCAGGTGCGTGTGGAAGGCCCTGTGAAGAACTGCCTGAGGAGGAGGCTGAGTGCTACTTCCACTCCCGCCC
CAAGAGCAGCCAGATTGGGGCTGTGGTCAGCCACCAGAGTTCTGTGATCCCTGATCGGGAGTATCTGAGAAAGAAAAATGA
GGAAGTGAACAGCTCTACCAGGATCAAGAGGTGCCCAAGCCAAAATCCTGGGGTGGCTATGTCCTGTACCCTCAGGTGAT
GGAGTTCTGGCAAGGTCAAACCAACCGCCTGCATGACCGGATAGTCTTTCGGCGGGGCCTACCCACAGGAGATTCCCCTTT
GGGGCCCATGACCCACCGCGGGGAGGAAGACTGGCTCTATGAGAGACTTGACCTTAA
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Transaction Sequence

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MTCWLRGVTA TFGRPAEWPG YLSHLCGRSA AMDLGPMRKS YRGDREAFEE THLTSLDPVK QFAAWFEEAV QCPDIGEANA
MCLATCTRDG KPSARMLLLK GFGKDGFRFF TNFESRKGKE LDSNPFASLV FYWEPLNRQV RVEGPVKKLP EEEAECYFHS
RPKSSQIGAV VSHQSSVIPD REYLKKNEE LEQLYQDQEV PKPKSWGGYV LYPQVMEFWQ GQTNRLHDRI VFRRGLPTGD
SPLGPMTHRG EEDWLYERLA P
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