

Product datasheet for **SC318901**

PPOX (NM_001122764) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPOX (NM_001122764) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPOX
Synonyms:	PPO; V290M; VP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC318901 representing NM_001122764.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCCGGACCGTGGTCGTGCTGGGCGGAGGCATCAGCGGCTTGGCCGCCAGTTACCACCTGAGCCGG
GCCCCCTGCCCCCTAAGGTGGTCTAGTGGAGAGCAGTGAGCGTCTGGGAGGCTGGATTGCTCCGTT
CGAGGCCCTAATGGTGCTATCTTTGAGCTTGGACCTCGGGGAATTAGGCCAGCGGAGCCCTAGGGGCC
CGGACCTTGCTCCTGGTTTCTGAGCTTGGCTTGGATTGAAAGTCTGCCTGTCCGGGGAGACCACCA
GCTGCCCAGAACAGGTTCTCTACGTGGGCGGTGCCCTGCATGCCCTACCCACTGGCCTCAGGGGGCTA
CTCCGCCCTTACCCCTTCTCCAAACCTCTGTTTTGGGCTGGGCTGAGGGAGCTGACCAAGCCCGG
GGCAAAGAGCCTGATGAGACTGTGCACAGTTTTGCCAGCGCCGCTTGGACCTGAGGTGGCGTCTCTA
GCCATGGACAGTCTCTGCCGTGGAGTGTTCAGGCAACAGCCGTGAGCTCAGCATCAGGTCCTGCTTT
CCCAGTCTTCCAAGCTGAGCAAACCCATCGTCCATATTAAGGGCTGCTGCTGGGGCAGGGCCG
ACCCACAGCCAGACTCAGCACTATTGCCAGGCCTTGGCTGAGCGCTGGAGCCAGTGGTCACTTCGT
GGAGGTCTAGAGATGTTGCCTCAGGCCCTTGAACCCACCTGACTAGTAGGGGGTCAAGTCTCAGA
GGCCAGCCGGTCTGTGGGCTCAGCCTCCAGGCAGAAGGGCGCTGGAAGGTATCTTAAGGGACAGCAGT
CTGGAGGCTGACCACGTTATTAGTGCCATTCCAGCTTCACTGCTCAGTGAGCTGCTCCCTGCTGAGGCT
GCCCTCTGGCTCGTGCCTGAGTGCCATCACTGCAGTGTCTGTAGTGTGGTGAATCTGCAGTACCAA
GGAGCCCATCTGCCTGTCCAGGGATTTGGACATTTGGTGCATCTTCAGAAGATCCAGGAGTCTGGGA
ATCGTGTATGACTCAGTTGCTTTCCCTGAGCAGGACGGGAGCCCCCTGGCCTCAGAGTACTGTGATG
CTGGGAGGTTCTGGTTACAGACTGGAGGCTAGTGGCTGTGTCTTATCTCAGGAGCTGTTTCAACAG
CGGGCCAGGAAGCAGCTGCTACACAATTAGGACTGAAGGAGATGCCAGCCACTGCTTGGTCCATCTA
CACAAGAAGTGCATTCCCAGTATACACTAGGTCACTGGCAAAAAGTAGAGTCAGCTAGGCAATTCCTG
ACTGCTCACAGGTTGCCCTGACTCTGGCTGGAGCCTCCTATGAGGGAGTTGCTGTTAATGACTGTATA
GAGAGTGGGCGCCAGGCAGCAGTCAGTGTCTGGGCACAGAACCTAACAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map: □

ACCN: NM_001122764

Insert Size: 1434 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).

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:	<u>NM_001122764.1</u>
RefSeq Size:	1777 bp
RefSeq ORF:	1434 bp
Locus ID:	5498
UniProt ID:	<u>P50336</u>
Cytogenetics:	1q23.3
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Porphyrin and chlorophyll metabolism
MW:	50.8 kDa
Gene Summary:	<p>This gene encodes the penultimate enzyme of heme biosynthesis, which catalyzes the 6-electron oxidation of protoporphyrinogen IX to form protoporphyrin IX. Mutations in this gene cause variegate porphyria, an autosomal dominant disorder of heme metabolism resulting from a deficiency in protoporphyrinogen oxidase, an enzyme located on the inner mitochondrial membrane. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 7 encode the same protein (isoform 1).</p>