

## Product datasheet for **RG225811**

### **PPOX (NM\_001122764) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PPOX (NM_001122764) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPOX
Synonyms:	PPO; V290M; VP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG225811 representing NM\_001122764  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCCGACCGTGGTCTGCTGGGCGGAGGCATCAGCGGCTTGCCGCCAGTTACCACCTGAGCCGGG  
 CCCCTGCCCCCTAAGGTGGTCTAGTGGAGAGCAGTGAGCGTCTGGGAGGCTGGATTCGCTCCGTTCCG  
 AGGCCCTAATGGTGTCTATCTTTGAGCTTGACCTCGGGGAATTAGGCCAGCGGGAGCCCTAGGGGCCCGG  
 ACCTTGCTCCTGGTTTCTGAGCTTGGCTTGGATTGAGAAGTGTGCCTGTCCGGGAGACACCCAGCTG  
 CCCAGAACAGGTTCTCTACGTGGGCGGTGCCCTGCATGCCCTACCCACTGGCCTCAGGGGGCTACTCCG  
 CCCTTACCCCCCTTCTCAAACCTCTGTTTTGGGCTGGGCTGAGGGAGCTGACCAAGCCCCGGGCAAA  
 GAGCCTGATGAGACTGTGCACAGTTTTGCCAGCGCCGCTTGGACCTGAGGTGGCGTCTTAGCCATGG  
 ACAGTCTCTGCCGTGGAGTGTTCAGGCAACAGCCGTGAGCTCAGCATCAGGTCCTGCTTCCAGTCT  
 CTTCAAAGCTGAGCAAACCCATCGTTCCATATTACTGGGCTGCTGCTGGGGCAGGGCGGACCCACAG  
 CCAGACTCAGCACTCATTGCCAGGCCTTGGCTGAGCGCTGGAGCCAGTGGTCACTTCGTGGAGGCTAG  
 AGATGTTGCCTCAGGCCCTTGAACCCACCTGACTAGTAGGGGGTCAGTGTTCTCAGAGGCCAGCCGGT  
 CTGTGGGCTCAGCCTCCAGGCAGAAGGGCGCTGGAAGGTATCTTAAGGGACAGCAGTCTGGAGGCTGAC  
 CACGTTATTAGTGCCATTCAGCTTCAGTGCTCAGTGAGCTGCTCCCTGCTGAGGCTGCCCTCTGGCTC  
 GTGCCCTGAGTGCCATCACTGCAGTGTCTGTAGCTGTGGTGAATCTGCAGTACCAAGGAGCCCATCTGCC  
 TGTCAGGGATTGGACATTTGGTGCCATCTTCAGAAGATCCAGGAGTCTGGGAATCGTGTATGACTCA  
 GTTGCTTTCCCTGAGCAGGACGGGAGCCCCCTGGCCTCAGAGTACTGTGATGCTGGGAGGTTCTGGT  
 TACAGACTGGAGGCTAGTGGCTGTGTTATCTCAGGAGCTGTTTCAACAGCGGGCCAGGAAGCAGC  
 TGCTACACAATTAGGACTGAAGGAGATGCCGAGCCACTGCTTGGTCCATCTACACAAGAAGTGCATTCCC  
 CAGTATACACTAGGCTCACTGGCAAAAAGTAGAGTCACTAGGCAATTCCTGACTGCTCACAGGTTGCCCC  
 TGACTCTGGCTGGAGCCTCCTATGAGGGAGTTGCTGTTAATGACTGTATAGAGAGTGGGCGCCAGGCAGC  
 AGTCAGTGTCTGGGCACAGAACCTAACAGC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG225811 representing NM\_001122764  
 Red=Cloning site Green=Tags(s)

MGRTVVVLGGGISGLAASYHLSRAPCPPKVVLESSLERLGGWIRSVRGPNGAIFELGPRGIRPAGALGAR  
 TLLLVLSEVLGLDSEVLPVRGDHPAAQNRFLYVGGALHALPTGLRGLLRPSPPFKPLFWAGLRELTKPRGK  
 EPDETIVHSFAQRRLGPEVASLAMDSLRCRVFAGNSRELSIRSCFSLFQAEQTHRSILLGILLGAGRTPQ  
 PDSALIRQALAEWRSQWSLRGGLEMLPQALETHLTSRGSVLRGQPVCGLSLQAEGRWKVSLRDSLEAD  
 HVISAIPASVLSSELLPAEAAPLARALSAITAVSVAVVNLQYQGAHLPVQGFGLVPSSEDPVGLGIVYDS  
 VAFPEQDGSPPGLRVTVMGGSWLQTLASGCVLSQELFQORAQEAATQLGLKEMPSHCLVHLHKNCIP  
 QYTLGHWQKLESARQFLTAHRLPLTLGASVYEGVAVNDCIESGRQAASVVLGTEPNS

**TRTRPLE** – GFP Tag – V

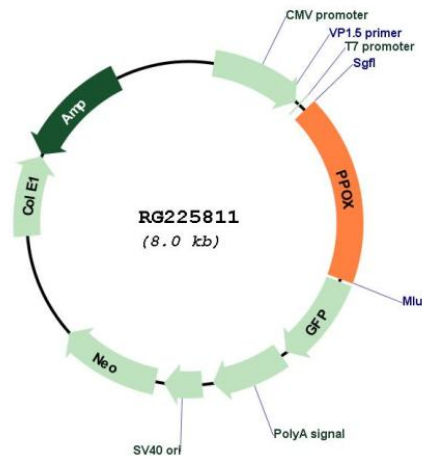
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001122764

ORF Size: 1431 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001122764.3</a>
<b>RefSeq Size:</b>	1777 bp
<b>RefSeq ORF:</b>	1434 bp
<b>Locus ID:</b>	5498
<b>UniProt ID:</b>	<a href="#">P50336</a>
<b>Cytogenetics:</b>	1q23.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Porphyrin and chlorophyll metabolism
<b>Gene Summary:</b>	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]