

Product datasheet for **RG201788**

PPOX (NM_000309) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPOX (NM_000309) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG201788 representing NM_000309
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCGACCGTGGTCTGCTGGGCGGAGGCATCAGCGGCTTGCCGCCAGTTACCACCTGAGCCGGG
 CCCCTGCCCCCTAAGGTGGTCTAGTGGAGAGCAGTGAGCGTCTGGGAGGCTGGATTCGCTCCGTTCCG
 AGGCCCTAATGGTGTCTCTTTGAGCTTGACCTCGGGGAATTAGGCCAGCGGGAGCCCTAGGGGCCCGG
 ACCTTGCTCCTGGTTTCTGAGCTTGCTTGATTGAGAGTGTGCTGTCCGGGAGACCACCCAGCTG
 CCCAGAACAGGTTCTCTACGTGGGCGGTGCCCTGCATGCCCTACCCACTGGCCTCAGGGGGCTACTCCG
 CCCTTACCCCCCTTCTCAAACCTCTGTTTTGGGCTGGGCTGAGGGAGCTGACCAAGCCCCGGGCAAA
 GAGCCTGATGAGACTGTGCACAGTTTTGCCAGCGCCGCTTGGACCTGAGGTGGCGTCTTAGCCATGG
 ACAGTCTCTGCCGTGGAGTGTTCAGGCAACAGCCGTGAGCTCAGCATCAGGTCCTGCTTCCAGTCT
 CTTCCAAGCTGAGCAAACCCATCGTTCCATATTACTGGGCTGCTGCTGGGGCAGGGCGGACCCACAG
 CCAGACTCAGCACTCATTGCCAGGCCTTGGCTGAGCGCTGGAGCCAGTGGTCACTTCGTGGAGGCTAG
 AGATGTTGCCTCAGGCCCTTGAACCCACCTGACTAGTAGGGGGTCACTGTTCTCAGAGGCCAGCCGGT
 CTGTGGGCTCAGCCTCCAGGCAGAAGGGCGCTGGAAGGTATCTTAAGGGACAGCAGTCTGGAGGCTGAC
 CACGTTATTAGTGCCATTCAGCTTCAGTGCTCAGTGAGCTGCTCCCTGCTGAGGCTGCCCTCTGGCTC
 GTGCCCTGAGTGCCATCACTGCAGTGTCTGTAGCTGTGGTGAATCTGCAGTACCAAGGAGCCCATCTGCC
 TGTCAGGGATTGGACATTTGGTGCCATCTTCAGAAGATCCAGGAGTCTGGGAATCGTGTATGACTCA
 GTTGCTTTCCCTGAGCAGGACGGGAGCCCCCTGGCCTCAGAGTACTGTGATGCTGGGAGGTTCTGGT
 TACAGACTGGAGGCTAGTGGCTGTCTTATCTCAGGAGCTGTTTCAACAGCGGGCCAGGAAGCAGC
 TGCTACACAATTAGGACTGAAGGAGATGCCGAGCCACTGCTTGGTCCATCTACACAAGAAGTGCATTCCC
 CAGTATACACTAGGCTCACTGGCAAAAAGTAGAGTCACTAGGCAATTCCTGACTGCTCACAGGTTGCCCC
 TGACTCTGGCTGGAGCCTCCTATGAGGGAGTTGCTGTTAATGACTGTATAGAGAGTGGGCGCCAGGCAGC
 AGTCAGTGTCTGGGCACAGAACCTAACAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201788 representing NM_000309
 Red=Cloning site Green=Tags(s)

MGRTVVVLGGGISGLAASYHLSRAPCPPKVVLESSLERLGGWIRSVRGPNGAIFELGPRGIRPAGALGAR
 TLLLVLSEGLDSEVLPVRGDHPAAQNRFLYVGGALHALPTGLRGLLRPSPPFKPLFWAGLRELTKPRGK
 EPDET VHSFAQRRLGPEVASLAMDSL CRGVFAGNSRELSIRSCFPSLFQAEQTHRSILLGILLGAGRTPQ
 PDSALIRQALAEERWSQWSLRGGLEMLPQALETHLTSRGVSVLRGQPVCGLSLQAEGRWKVSLRDSLEAD
 HVISAI PASVLSSELLPAEAA PLARALSAITAVSVAVVNLQYQGAHLPVQGFGLVPSSEDPVGLGIVYDS
 VAFPEQDGSPPGLRVTVMLGGSWLQTLASGCVLSQELFQORAQEAATQLGLKEMPSHCLVHLHKNCIP
 QYTLGHWQKLESARQFLTAHRLPLTLGASVYEGVAVNDCIESGRQAASVVLGTEPNS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000309

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).

Reconstitution Method:

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_000309.5](#)

RefSeq Size: 1703 bp

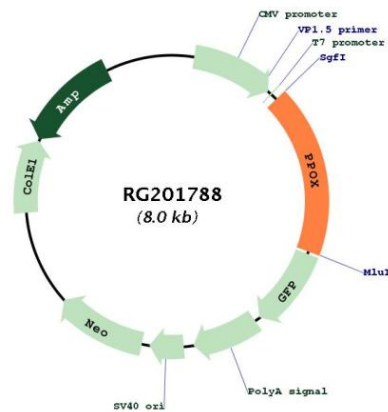
RefSeq ORF: 1434 bp

Locus ID: 5498

UniProt ID: [P50336](#)

Cytogenetics:	1q23.3
Domains:	Amino_oxidase
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Porphyrin and chlorophyll metabolism
Gene Summary:	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]

Product images:



Circular map for RG201788