

Product datasheet for **SC308399**

PAOX (NM_207128) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAOX (NM_207128) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAOX
Synonyms:	PAO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC308399 representing NM_207128.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGTCGACCGGCAGCGTCGGGGAGGCCCGGGCGGACCCGGGTGCTGGTGGTGGGCGCGGCATC
GCGGGGCTGGGCGCGCGCAGAGGCTCTCGGCCACTCCGCCTCCCGCACCTGCGGGTCTGGAGGCC
ACGGCCCGCGCCGGGGCGCATCCGCTCGGAGCGCTGCTTCGGTGGCGTGGTGGAGGTGGGCGCGCAC
TGGATCCATGGGCCCTCCCGGGTAACCCCGTCTTCCAGCTGGCTGCTGAGTACGGGCTGCTGGGGAG
AAGGAGCTGTCCAGGAGAACCAGCTGGTGGAGACCGGGGTACGTGGGCTGCCCTCCGTGAGCTAC
GCCAGCTCCGGGGCCAGCGTGAGCCTCCAGCTGGTGGCGGAGATGGCGACTCTGTTCTACGGCTGATA
GACCAGACCCGGGAGTTCTGCACGCTGCAGAGACCCGGTGCCAGCGTCGGGGAGTACCTCAAGAAG
GAGATTGGCCAGCAGTGGCCGGCTGGACAGAGGATGAGGAGACCAGGAAGCTGAAGCTGGCCGTCCTG
AACTCCTTCTTCAACCTGGAATGCTGTGTGAGCGGCACCCACAGCATGGACCTGGTGGCCCTGGCACCC
TTTGGGAGTATACCGTGTGCCGGGGCTGGACTGCACCTTTTCTAAGGGCTATCAAGGACTCACAAC
TGCATGATGGCCGCCCTGCCGGAGGACACTGTAGTTTTTGAGAAGCCTGTGAAGACCATCCACTGGAAC
GGGTCTTCCAGGAGGCAGCCTTTCCCGGGGAGACCTTCCAGTGTGGTAGAGTGTGAGGATGGAGAC
CGGTTCCCGGCGCACCATGTATCGTCACCGTGCCCTTAGGTTTTCTTAGGGAACATTTGGACACCTTC
TTTGACCTCCCTGCCGGCTGAGAAGGCAGAACATCAGGAAGATAGGCTTTGGGACCAACAACAAA
ATCTTCTGGAGTTTGAGGAGCCCTTCTGGGAGCCAGACTGCCAGCTGATCCAGCTGGTGTGGGAGGAC
ACGTCGCCCCGGAGGATGTGCCCTGAGCTACAGGACGCTGGTCCGGAAGCTCATTGGCTTTGTG
GTCCTGCCTGCCTTTGCGTCTGTCCACGTTCTGTGGGTTTATTGCCGACTTGAGTCTGAGTTCATG
GAGACTCTGTGGATGAAGAAGTACTTCTGTCTCACCAAGTGCTCCGAGAGTGACAGCTCCAGAT
CCTGTTTTGCGGGGAAGCCACACATCGACGTTTTACTCCAGCAGCAGCGGGCTCTGCTGTGGGATG
GAGGGAGGCCGACCGCCTCCTCAGTCTGTGGGCCCGCAGGTGCAGCAGCCAGGCCAGGCTCTAGCT
GGGCCAGCCTACTCTGTTCCACCCGTGTGGGGTAGGCTGGGACCCTATTTCTTCTGACAGATTTT
AGTCTGGCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI

ACCN: NM_207128

Insert Size: 1461 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:	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_207128.2</u>
RefSeq Size:	1699 bp
RefSeq ORF:	1461 bp
Locus ID:	196743
UniProt ID:	<u>Q6QHF9</u>
Cytogenetics:	10q26.3
Protein Families:	Druggable Genome
MW:	52 kDa
Gene Summary:	Flavoenzyme which catalyzes the oxidation of N(1)-acetylspermine to spermidine and is thus involved in the polyamine back-conversion (PubMed:12477380). Can also oxidize N(1)-acetylspermidine to putrescine. Substrate specificity: N(1)-acetylspermine = N(1)-acetylspermidine > N(1),N(12)-diacetylspermine >> spermine. Does not oxidize spermidine. Plays an important role in the regulation of polyamine intracellular concentration and has the potential to act as a determinant of cellular sensitivity to the antitumor polyamine analogs (PubMed:12477380).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (5) lacks an alternate exon in the 3' coding region, resulting in a frameshift, compared to variant 1. It encodes isoform 4, which is shorter and has a distinct C-terminus, compared to isoform 1.