

## Recombinant Human ATOX1, His-tagged

**Cat. No.** ATOX1-26191TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human ATOX1 with N terminal His tag; 88 amino acids with a predicted MWt 9.5kDa including tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	68 amino acids
<b>Description</b>	This gene encodes a copper chaperone that plays a role in copper homeostasis by binding and transporting cytosolic copper to ATPase proteins in the trans-Golgi network for later incorporation to the ceruloplasmin. This protein also functions as an antioxidant against superoxide and hydrogen peroxide, and therefore, may play a significant role in cancer carcinogenesis. Because of its cytogenetic location, this gene represents a candidate gene for 5q-syndrome.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	9.500kDa inclusive of tags
<b>Tissue specificity</b>	Ubiquitous.
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE

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<b>Storage buffer</b>	pH: 8.00 Constituents: 0.24% Tris, 0.02% DTT, 10% Glycerol
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Sequences of amino acids</b>	MGSSHHHHHHSSGLVPRGSHMPKHEFSVDMTCGGCAEAVSRVLNKLGGVKYDIDL PNKKVCIESEHSMDTLLATLKKTGKTVSYLGL
<b>Sequence Similarities</b>	Belongs to the ATX1 family. Contains 1 HMA domain.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ATOX1 ATX1 antioxidant protein 1 homolog (yeast) [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">ATOX1</a>
<b>Synonyms</b>	ATOX1; ATX1 antioxidant protein 1 homolog (yeast); ATX1 (antioxidant protein 1, yeast) homolog 1; copper transport protein ATOX1; HAH1;
<b>Gene ID</b>	<a href="#">475</a>
<b>mRNA Refseq</b>	<a href="#">NM_004045</a>
<b>Protein Refseq</b>	<a href="#">NP_004036</a>
<b>MIM</b>	<a href="#">602270</a>
<b>Uniprot ID</b>	<a href="#">O00244</a>
<b>Chromosome Location</b>	5q32

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<b>Pathway</b>	Mineral absorption, organism-specific biosystem; Mineral absorption, conserved biosystem;
<b>Function</b>	copper chaperone activity; copper ion binding; copper-dependent protein binding; metal ion binding; metallochaperone activity;

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