

Product datasheet for SC117628

ATOX1 (NM_004045) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATOX1 (NM_004045) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATOX1
Synonyms:	ATX1; HAH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117628 sequence for NM_004045 edited (data generated by NextGen Sequencing)

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ATGCCGAAGCACGAGTTCTCTGTGGACATGACCTGTGGAGGCTGTGCTGAAGCTGTCTCT
CGGGTCCCTCAATAAGCTTGGAGGAGTTAAGTATGACATTGACCTGCCCAACAAGAAGGTC
TGCAATTGAATCTGAGCACAGCATGGACACTCTGCTTGCAACCCTGAAGAAAACAGGAAAG
ACTGTTTCCTACCTTGGCCTTGAGTAG
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Clone variation with respect to NM_004045.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004045 unedited
GTAAACGTGAGAATTTGTATACGACTCACTATAGGGCGGCCGAATTCGCACCAGCACCCG
CCGCCACACCCGCCACACCCGCCGCTGCCTCAGTCATGCCGAAGCACGAGTTCTCTGTG
GACATGACCTGTGGAGGCTGTGCTGAAGCTGTCTCTCGGGTCCCTCAATAAGCTTGGAGGA
GTAAAGTATGACATTGACCTGCCCAACAAGAAGGCTGCATTGAATCTGAGCACAGCATG
GACACTCTGCTTGCAACCCTGAAGAAAACAGGAAAGACTGTTTCCTACCTTGGCCTTGAG
TAGCAGGGGCTGGTCCCACAGCCACAGGATGGACAAAGGGGGCAGGATGCTGATCC
TCCCGTGGCTTCCAGACAGACCTGGGACTTGGCAGTCATGCCGGTGATGGTGTCTCTG
CGGAGACCCTCAGTTGCCTATTCCTTCTAGCTTCCCTGCAATAAAATCAAGCTGCTTT
TGTTGGNAAAAAAAAANNNNAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAACCTCGACTTAGATTGCGGCCGCGGTGATAGCTGTTTCCT
GAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCAAGTGCCTCTCCTGGCCCTGAAGG
TTGCCACTCCAGTGCCCACAGCCTTGTCTAATAAAATTAAGTTGCATCATTTTGTCTG
ACTAGGTGCTTCAAAAAATTTGGGGGAGGGGGGGGTTTATTTAAACAAAGGGCAC
TTTTGGAAAAACCTTGTGGCCTGGGGGTCTTTTGGGAACCAACCTGGGGTCTGTT
GGCAATTCTGTGGCTCATTGAATCCCCCTCTGGGGTTAAAGCATTTTCTTGCTTCAA
CTCCG
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Restriction Sites: NotI-NotI



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ACCN:	NM_004045
Insert Size:	570 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).
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_004045.3</u> , <u>NP_004036.1</u>
RefSeq Size:	498 bp
RefSeq ORF:	207 bp
Locus ID:	475
UniProt ID:	<u>O00244</u>
Cytogenetics:	5q33.1
Domains:	HMA
Gene Summary:	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. [provided by RefSeq, Jul 2008]