

Product datasheet for **RC221067L1V**

ATOX1 (NM_004045) Human Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | ATOX1 (NM_004045) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | ATOX1 |
| Synonyms: | ATX1; HAH1 |
| Mammalian Cell Selection: | None |
| Vector: | pLenti-C-Myc-DDK (PS100064) |
| Tag: | Myc-DDK |
| ACCN: | NM_004045 |
| ORF Size: | 204 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC221067). |
| 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. |
| RefSeq: | NM_004045.3 |
| RefSeq Size: | 498 bp |
| RefSeq ORF: | 207 bp |
| Locus ID: | 475 |
| UniProt ID: | O00244 |
| Cytogenetics: | 5q33.1 |
| Domains: | HMA |
| MW: | 7.2 kDa |


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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]