

Product datasheet for **SC328289**

LOX (NM_001178102) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LOX (NM_001178102) Human Untagged Clone
Tag:	Tag Free
Symbol:	LOX
Synonyms:	AAT10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001178102 edited ATGTCCATGTACAACCTGAGATGCGCGGGAGGAAAAGTCTGGCCAGTACAGCATA AGGGCAGATGTCAGAGATTATGATCACAGGGTGCTGCTCAGATTTCCCAAAGAGTGAAA AACCAAGGGACATCAGATTTCTTACCCAGCCGACCAAGATATTCCCTGGGAATGGCACAGT TGTCATCAACATTACCACAGTATGGATGAGTTTAGCCACTATGACCTGCTTGATGCCAAC ACCCAGAGGAGAGTGGCTGAAGGCCACAAAGCAAGTTTCTGTCTTGAAGACACATCCTGT GACTATGGCTACCACAGGCGATTTGCATGTAAGTGCACACACACAGGGATTGAGTCCTGGC TGTTATGATACCTATGGTGCAGACATAGACTGCCAGTGGATTGATATTACAGATGAAAA CCTGGAAACTATATCCTAAAGGTCAGTGTAAACCCAGCTACCTGGTTCTGAATCTGAC TATACCAACAATGTTGTGCGCTGTGACATTCGCTACACAGGACATCATGCGTATGCCTCA GGCTGCACAATTTACCCTAT
Restriction Sites:	Please inquire
ACCN:	NM_001178102
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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001178102.1.
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).



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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_001178102.1, NP_001171573.1

RefSeq Size: 4393 bp

RefSeq ORF: 564 bp

Locus ID: 4015

Cytogenetics: 5q23.1

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: This gene encodes a member of the lysyl oxidase family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate a regulatory propeptide and the mature enzyme. The copper-dependent amine oxidase activity of this enzyme functions in the crosslinking of collagens and elastin, while the propeptide may play a role in tumor suppression. In addition, defects in this gene have been linked with predisposition to thoracic aortic aneurysms and dissections. [provided by RefSeq, Jul 2016]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream start codon compared to variant 1. The encoded isoform (2) is shorter at the N-terminus and lacks a predicted signal peptide compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.