

## Product datasheet for RC229651

### LOX (NM\_001178102) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: LOX (NM\_001178102) Human Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: LOX  
 Synonyms: AAT10  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >RC229651 representing NM\_001178102  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCCATGTACAACCTGAGATGCGCGGCGGAGGAAAACCTGTCTGGCCAGTACAGCATACAGGGCAGATG  
 TCAGAGATTATGATCACAGGGTGTCTGCTCAGATTTCCCAAGAGTAAAAACCAAGGGACATCAGATTT  
 CTTACCCAGCCGACCAAGATATTCCTGGGAATGGCACAGTTGTCATCAACATTACCACAGTATGGATGAG  
 TTTAGCCACTATGACCTGCTTGATGCCAACCCAGAGGAGAGTGGCTGAAGGCCACAAAGCAAGTTTCT  
 GTCTTGAAGACACATCCTGTGACTATGGCTACCACAGGCGATTTGCATGTACTGCACACACACAGGGATT  
 GAGTCCTGGCTGTTATGATACCTATGGTGCAGACATAGACTGCCAGTGGATTGATATTACAGATGTAAAA  
 CCTGAAACTATATCCTAAAGGTCAAGTGTAAACCCAGCTACCTGGTTCCTGAATCTGACTATACCAACA  
 ATGTTGTGCGCTGTGACATTCGCTACACAGGACATCATGCGTATGCCTCAGGCTGCACAATTTCCACCGTA  
 T

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229651 representing NM\_001178102  
 Red=Cloning site Green=Tags(s)

MSMYNLRCAAEEENCLASTAYRADVDRDYDHRVLLRFPQVRVKNQGTSDFLPSRPRYSWEHWSCHQHYHSMDE  
 FSHYDLLDANTQRRVAEGHKASFLEDTSYDYGHRRFCTAHTQGLSPGCYDYGADIDCQWIDITDVK  
 PGNVILKVSVNPSYLVPESDYTNVVRCDIRYTGHHAYASGCTISPY

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001178102

**ORF Size:** 561 bp

**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.

**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:** [NM\\_001178102.2](#)

**RefSeq ORF:** 564 bp

**Locus ID:** 4015

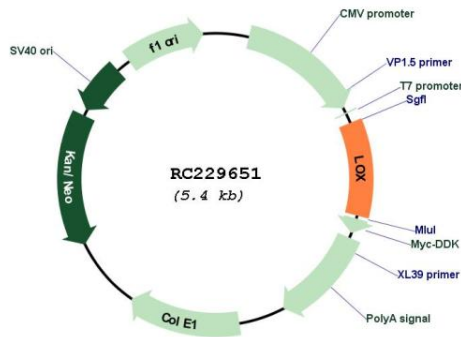
**Cytogenetics:** 5q23.1

**Protein Families:** Druggable Genome, Secreted Protein

**MW:** 22.1 kDa

**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]

**Product images:**



Circular map for RC229651