

## Product datasheet for **SC118675**

### LOXL2 (NM\_002318) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LOXL2 (NM_002318) Human Untagged Clone
Tag:	Tag Free
Symbol:	LOXL2
Synonyms:	LOR; LOR2; WS9-14
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118675 sequence for NM\_002318 edited (data generated by NextGen Sequencing)

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ATGGAGAGGCCTCTGTGCTCCACCTCTGCAGCTGCCTGGCTATGCTGGCCCTCCTGTCC
CCCCTGAGCCTGGCACAGTATGACAGCTGGCCCCATTACCCCGAGTACTCCAGCAACCG
GCTCCTGAGTATCACCAGCCCCAGGCCCCCGCCAACGTGGCCAAGATTGAGTGCAGCTG
GCTGGGCAGAAGAGGAAGCACAGCGAGGGCCGGGTGGAGGTGACTATGATGGCCAGTGG
GGCACCGTGTGCGATGACGACTTCTCCATCCACGCTGCCACGTCGTCTGCCGGGAGTG
GGCTATGTGGAGGCCAAGTCTGGACTGCCAGCTCCTCCTACGGCAAGGGAGAAGGGCCC
ATCTGGTTAGACAATCTCCACTGTACTGGCAACGAGGCGACCCTTGCAGCATGCACCTCC
AATGGCTGGGGCGTCACTGACTGCAAGCACACGGAGGATGTCGGTGTGGTGTGCAGCGAC
AAAAGGATTCTGGGTTCAAATTTGACAATTCGTTGATCAACCAGATAGAGAACCTGAAT
ATCCAGGTGGAGGACATTCGATTTCGAGCCATCCTCTCAACCTACCGAAGCGCACCCCA
GTGATGGAGGGCTACGTGGAGGTGAAGGAGGGCAAGACCTGGAAGCAGATCTGTGACAAG
CACTGGACGGCCAAGAATTCCCCTGGTCTGCGGCATGTTTGGCTTCCCTGGGGAGAGG
ACATAACAATCCAAAGTGTACAAAATGTTTGCCTCACGGAGGAAGCAGCGCTACTGGCCA
TTCTCCATGGACTGCACCGGCACAGAGGCCACATCTCCAGCTGCAAGCTGGGCCCCAG
GTGTCACCTGGACCCCATGAAGAATGTCACCTGCGAGAATGGGCTACCGGCCGTGGTGAGT
TGTGTGCCTGGGCAGGTCTTCAGCCCTGACGGACCCTCAAGATCCGAAAGCGTACAAG
CCAGAGCAACCCCTGGTGCAGTGCAGAGCGGTGCCTACATCGGGGAGGGCCGCGTGGAG
GTGCTCAAAAATGGAGAATGGGGACCGTCTGCGACGACAAGTGGGACCTGGTGTGCGCC
AGTGTGGTCTGCAGAGAGCTGGGCTTTGGGAGTGCCAAAGAGGCAGTCACTGGCTCCCGA
CTGGGGCAAGGGATCGGACCCATCCACCTCAACGAGATCCAGTGCACAGGCAATGAGAAG
TCCATTATAGACTGCAAGTTCAATGCCGAGTCTCAGGGCTGCAACCACGAGGAGGATGCT
GGTGTGAGATGCAACACCCCTGCCATGGGCTTGCAGAAGAAGCTGCGCCTGAACGGCGGC
CGCAATCCCTACGAGGGCCGAGTGGAGGTGCTGGTGGAGAGAAACGGGTCCCTTGTGTGG
GGGATGGTGTGTGGCCAAAACCTGGGGCATCGTGGAGGCCATGGTGGTCTGCCGCCAGCTG
GGCCTGGGATTCGCCAGCAACGCCTTCCAGGAGACCTGGTATTGGCACGGAGATGTCAAC
AGCAACAAAGTGGTCAATGAGTGGAGTGAAGTGTGCGGAACGGAGCTGTCCCTGGCGCAC
TGCCGCCACGACGGGGAGGACGTGGCCTGCCCCAGGGCGGAGTGCAGTACGGGGCCGGA
GTTGCCTGCTCAGAAACCGCCCCTGACCTGGTCCCTCAATGCGGAGATGGTGCAGCAGACC
ACCTACCTGGAGGACCGCCCATGTTTCATGCTGCAGTGTGCCATGGAGGAGAAGTGCCTC
TCGGCCTCAGCCGCGCAGACCGACCCACCACGGGCTACCGCCGCTCCTGCGCTTCTCC
TCCCAGATCCACAACAATGGCCAGTCCGACTTCCGGCCCAAGAACGGCCGCCACGCGTGG
ATCTGGCACGACTGTACAGGCACTACCACAGCATGGAGGTGTTCAACCACTATGACCTG
CTGAACCTCAATGGCACCAGGTGGCAGAGGGCCACAAGGCCAGCTTCTGCTTGGAGGAC
ACAGAATGTGAAGGAGACATCCAGAAGAATTACGAGTGTGCCAATTTCGGCGATCAGGGC
ATCACCATGGGCTGCTGGGACATGTACCGCCATGACATCGACTGCCAGTGGGTTGACATC
ACTGACGTGCCCCCTGGAGACTACCTGTTCCAGGTTGTTATTAACCCCACTTCGAGGTT
GCAGAATCCGATTACTCCAACAACATCATGAAATGCAGGAGCCGCTATGACGGCCACCGC
ATCTGGATGTACAACTGCCACATAGGTGGTTCCTTCAGCGAAGAGACGGAAAAAAGTTT
GAGCACTTCAGCGGGCTCTTAAACAACAGCTGTCCCCGAGTAA
    
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Clone variation with respect to NM\_002318.2  
 306 c=>t

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_002318 unedited  
 TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGAAAAGAGTAA  
 CGCGCGNACTCCGCGCGCGGCTACCTACGCTTGGTGCTTCTTCCAGCCATTGGAGA  
 CCAGAGCCGCCCTCTGCTCGAAGAGGGGCTCAGCGCGCGGGAAGCGGAGGGGGACC  
 ACCGTGGAGAGCGCGGTCCCAGCCCGGCCACTGCGGATCCCTGAAACAAAAAGCTCTG  
 CTGCTTCTGTACCCCGCTGTCCCTCCCAGCTGCGCAGGGCCCTTCGTGGGATCATCAG  
 CCCGAAGACAGGGATGGAGAGGCCTCTGTGCTCCACCTCTGCAGCTGCCTGGCTATGCT  
 GGCCCTCTGTCCCCCTGAGCCTGGCACAGTATGACAGCTGGCCCCATTACCCGAGTA  
 CTTCCAGCAACCGCTCCTGAGTATCACCAGCCCCAGGCCCCCGCCAACGTGGCCAAGAT  
 TCAGCTGCGCCTGGTGCGCAGAGGAAGCACAGCGAGGGCCGGTGGAGGTGACTA  
 TGATGGCCAGTGGGGACCGTGTGCGATGACCACTTCTCCATCCAGCTGCCACGTCGT  
 CTGCCGGAGCTGGGCTATGTGGAGGCCAAGTCTGGACTGCCAGCTCCTCTACGGCAA  
 GGGAGAAGGGCCATCTGGTTAGACAATCTCCACTGTACTGGCAACGAGGCGACCCTTGC  
 AGCATGCACCTTCAATGGCTGGGGCGTCACTGACTGCAGCACACGGAGGATTGTCGTGTG  
 GTGTGCCACGACAAAAGGATTCTGGGNTTAAATTTGCCATTTGTTGACCACCCAGATA  
 GAGACCTGGATT

**3' Read Nucleotide Sequence:** >OriGene 3' read for NM\_002318 unedited  
 CGCAATCTAGNATCGAGTTTTTTTTTTTTTTTAAATAAATCTTTCTTTTATTCCAAGT  
 TTCAAGTATGTGAAGTGTCTGTGATGACACATGGTGCTCAGTGAGCGCCCTGTACCCA  
 GGACCCTGGTTATAGCACGTTGAATCAAAAACCCACAGAATTGGAACAACAGGAAGATG  
 AGTCACCTACACAGTGGGTTGGTTTTTCTTAAATTTGTACTTCAAGGGCCAGATGTC  
 CAATATTAATGCAATAAATTTGTGCTTCAAAAGTCTGTGAAAAATAATAATAGTATC  
 TTGAAAAACAAGGGTGGGGTGTGGAGAGGGAAGCACCAAGTCTGAGCTCACCAATC  
 AGAAAACAGTGGCACCATTATCTATGTGACTATAATAGACTGGAGGGTTTCATTGGAAG  
 AGAGGTCTAGATATTCAAGTTTGCTGAAAATGACCTAAGAGGAGGAGAAATGGGGTTCGG  
 CCTGACCCTCTCTGGGGGGCTGATGAGCCCGCATTTGTCCACGTGTCACTGGAGAAGAG  
 CGCGGCTCCACTGTGTCTGTGGTGTGAGCTCGGTGGCTTGAATGGGACAAGCTGATGACAAC  
 CTGTCTGTGGGCTCATCCCGTCAAGACTGGCTCTTGGTGTCTCCAGCAGCTCTGTG  
 GACAAACCCACCCCAAGGCCTTCTCATGCCCAAGGGTCAGGTAGCAGCCCTCCA  
 TGAATGATGGGAGGGTCCCTTCTCCTGAGCTTAACACAGCTGTAGGGTCTGGACAGG  
 TGGAGGCCAGGCCTGGTGTGGGACGTTGCAATTCGTTTCAAGTCTGTTGGTGGNGGGAA  
 GTCCCATGGNATATGTGGTGTGGCCCTGATACAAGATTGACCACCCAGGCTTCTTACTG  
 AGAGACAGCTGGTTGTTAATAACCCGTGAAAGCTCAAACCTTTCTGTTCTTGTGGAAGA  
 CCCCTAGGGCAGTTGACTCAAATGGGGCGCT

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_002318

**Insert Size:** 3550 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_002318.2](#), [NP\\_002309.1](#)

**RefSeq Size:** 3810 bp

**RefSeq ORF:** 2325 bp

**Locus ID:** 4017

**UniProt ID:** [Q9Y4K0](#)

**Cytogenetics:** 8p21.3

**Domains:** SR, Lysyl\_oxidase

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

**Gene Summary:** This gene encodes a member of the lysyl oxidase gene family. The prototypic member of the family is essential to the biogenesis of connective tissue, encoding an extracellular copper-dependent amine oxidase that catalyses the first step in the formation of crosslinks in collagens and elastin. A highly conserved amino acid sequence at the C-terminus end appears to be sufficient for amine oxidase activity, suggesting that each family member may retain this function. The N-terminus is poorly conserved and may impart additional roles in developmental regulation, senescence, tumor suppression, cell growth control, and chemotaxis to each member of the family. [provided by RefSeq, Jul 2008]