

## Product datasheet for **SC116666**

### LOXL1 (NM\_005576) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LOXL1 (NM_005576) Human Untagged Clone
Tag:	Tag Free
Symbol:	LOXL1
Synonyms:	LOL; LOXL
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC116666 sequence for NM\_005576 edited (data generated by NextGen Sequencing)

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ATGGCTCTGGCCCGAGGCAGCCGGCAGCTGGGGGCCCTGGTGTGGGGCGCCTGCCTGTGC
GTGCTGGTGCACGGGCAGCAGGCCGAGCCCGGGCAGGGCTCGGACCCCGCCCGTGGCGG
CAGCTGATCCAGTGGGAGAACAACGGGCAGGTGTACAGCTTGCTCAACTCGGGCTCAGAG
TACGTGCCGGCCGGACCTCAGCGCTCCGAGAGTAGCTCCCGGGTGTCTGCTGGCCGGCGCG
CCCCAGCCACAGCAGCGGCGCAGCCACGGGAGCCCGCGGCTCGGCAGGCCTCCCTG
CCCTGCCGGGGCGCGTGGGCTCGGACACCGTGCAGCGCCAGGCGCGCACCCATTTCGGC
TTTGCCAGGTGCCCGACAACCTGGCGCAGGTGGCCGTGGGGACAGCACGGGCATGGCC
CGGGCCCGCACCTCCGTCTCCAGCAACGGCACGGGGGCTCCGCCTCCTCGGTCTCGGCT
TCGGCCTTCGCCAGCACCTACCGCCAGCAGCCCTCTACCCGACAGCAGTCCCCTACCCG
CAGGCGCCCTTCGTGAGCAGTACGAGAACTACGACCCCGCGTGCAGGACCTACGACCAG
GGTTTCGTGTAACCGCCCGGGCGGGCGGCGTGGGCGGGGGCGGGCGGCGGCTGGCC
TCGGCGGGGGTCACTACCCCTACCAGCCCGGGCGGCTACGAGGAGTACGGCGGGCGG
GAAGAGCTGCCCGAGTACCCGCTCAGGGCTTCTACCCGCCCCGAGAGGCCCTACGTG
CCGCCCGCGCCGCGCCCGCCCGACGGCCTGGACCGCCGCTACTCGCACAGTCTGTACAGC
GAGGGCACCCCGGCTTCGAGCAGGCCTACCCTGACCCCGGTCCCAGGCGGGCGCAGGCC
CATGGCGGAGACCCACGCTGGGCTGGTACCCGCCCTACGCCAACCCGCGCCCGAGGGG
TACGGGCGCGCGCGCGCTGGAGCCGCCCTACCTGCCGTTGCGCAGCTCCGACACGCC
CCGCGGGTGGGAGCGGAACGGCGCGCAGCAGGGCCGCTCAGCGTGGGAGCGGTGAC
CGGCCAACAGAACGGCCGGTCTCCCTGACTTGGTCCCAGACCCAACTATGTGCAA
GCATCCACTTATGTGAGAGAGCCACCTGTACTCCCTGCGCTGTCTGCGGAGGAGAAG
TGCTGGCCAGCACAGCCTATGCCCTGAGGCCACCGACTACGATGTGGGGTGTACTG
CGCTTCCCCAGCGCTGAAGAACCAGGGCACAGCAGACTTCTCCCAACCGGCCACGG
CACACCTGGGAGTGGCACAGCTGCCACCAAGATTACCACAGCATGGACGAGTTCAGCCAC
TACGACCTACTGGATGCAGCCACAGGCAAGAAGGTGGCCGAGGGCCACAAGGCCAGTTTC
TGCTGGAGGACAGCACCTGTGACTTCGGCAACCTCAAGCGCTATGCATGCACCTCTCAT
ACCCAGGGCCTGAGCCAGGCTGCTATGACACCTACAATGCGGACATCGACTGCCAGTGG
ATCGACATAACCGACGTGCAGCCTGGGAACTACATCCTCAAGGTGCACGTGAACCCAAAG
TATATTGTTTTGGAGTCTGACTTACCAACAACGTGGTGGATGCAACATTCACTACACA
GGTCGCTACGTTTCTGCAACAACTGCAAAATTGTCCAATCCTGA
    
```

Clone variation with respect to NM\_005576.2

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_005576 unedited

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GCACGAGGAAAGCGCCAGCCGAGCGGCCAGCCAGTGCGGGGCTGGCCATGTAAGGCCCA
CAGGCGGTCTGCCCCCGCGTGCCTGCGGAGAGCCTCGTGCAGCCCTGGGCACCGCCC
CTGCCCTGCCCTGACCCCTTGGCCTTGAATGCTGTATCGGAGGAGCCGTCCTCGG
GACAAGGCCAGCATGGACAAAGCTAGAGCTGGGGCAAGCAAGGAGCCTTCTGTCTCGA
GGCCGTGGGAAGAGAAGCACGCCAGGGGGCCACTCCTGAGAGCCTCTGTCCACCAGG
CCTCTGCAGAGGGGTACCATGGCTCTGGCCCGAGGCAGCCGCGCAGTGGGGGCCCTGGT
GTGGGGCGCCTGCCTGTGCGTGTGGTGCACGGGCAGCAGGCGCAGCCCGGGCAGGGCTC
GGACCCCGCCCGTGGCGGCAGCTGATCCAGTGGGAGAACAACGGGCAGGTGTACAGCTT
GCTCAACTCGGGCTCAGAGTACGTGCCCGCGGACCTCAGCGCTCCGAGAGTAGTCCCG
GGTGTGCTGGCCGGCGCGCCCGAGGCCAGCAGCGGCGCAGCCACGGGAGCCCCGGCG
TCGGCAGGCGCCGCTCCCTGCCCTGCCGNGCGCGTGGGCTCGGACACCGT
    
```

<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_005576 unedited            ACTTATGTACGGCCGCAATTTANGATCGATTTTTTTCTTTTTNTTTTTAGAAAA            ACCTTGTTTTATTCAGCCCANACCTGGGCAATCTAGCTCTGTGGTATGGCCAAAGTATAA            AAAATAAAAACCAACAACAACAACAACAACACTGTAGAGAAAAGTGAAGTATAAAATGGGG            TCTGGCGTCCGGAATCCCTGTGGTTTTTCATCCACGTTTCGCTCCCTGAGGCCGGCAGGGAG            GGATGCCCTCCCTGCCTGTGGGTTGGGGGCTGGGCCCCCGGCCGGGAGGCTGCCCGGG            AGCAAGGCCTGCTTTGGAAGGGGAGAGATTGGCCATCTGTCCCTCCCGGAGATCAGGATT            GGACAATTTTGCAGTTTGTTCAGAAACGTAGCGACCTGTGTAGTGAATGTTGCATCTCA            CCACGTTGTTGGTGAAGTCAGACTCCAAAAACAATACTTTGGGTTACGTGCACCTTGA            GGATGTAGTTCCAGGCTGCACGTCGGTTATGTCGATCCACTGGCAGTCGATGTCCGCAT            TGTAAGTGTATAGCAGCCTGAGCTCAAGCCCTGGGTATGAGAGGTGCATGCATAGCGCT            TGAGGTTGCCAAGTCACAGGTGCTGCTCCAGGCAGAACTGGCCTTGTGGCCCTCGG            CCACCTTCTTGCCTGTGGCTGCATCCAGTAGGTCGTAATGGCTGAACTCGTCCATGCTGT            GGTAAATGCTGGTGGCAGCTGTGCCACTCCAGGTGTCCCGTGGCCGTTGGGGAGGAAGT            CTGCTGTGCCCTGGTTCTCACGCGCTGGGGGAACGCANTAACACCCGACATCGTATCCG            TGGGCTCAGGGCATAAGCTGGGCTGGCANACACTTTTCTCCGCACACAAGCAGGAGTTC            AAGTGGG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005576
<b>Insert Size:</b>	2500 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_005576.2</a> , <a href="#">NP_005567.2</a>
<b>RefSeq Size:</b>	2361 bp

RefSeq ORF: 1725 bp

Locus ID: 4016

UniProt ID: [Q08397](#)

Cytogenetics: 15q24.1

Domains: Lysyl\_oxidase

Protein Families: Secreted Protein

**Gene Summary:** This gene encodes a member of the lysyl oxidase family of proteins. The prototypic member of the family is essential to the biogenesis of connective tissue, encoding an extracellular copper-dependent amine oxidase that catalyzes the first step in the formation of crosslinks in collagen and elastin. The encoded preproprotein is proteolytically processed to generate the mature enzyme. 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. Mutations in this gene are associated with exfoliation syndrome. [provided by RefSeq, Jan 2016]