

## Product datasheet for **MR209361**

### Loxl1 (NM\_010729) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Loxl1 (NM_010729) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Loxl1
Synonyms:	L; Loxl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209361 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCTGGCCGGAGCCGGCAGCCAGCTGAGGACCCTGGTGTGGAGTGCCTGCCTGTGCGTCTCGTGC  
 ACGGGCAGCAAGCGCAGCCAGGACAGGGCTCGGACCCAGGACGCTGGCGGCAGCTGATCCAGTGGGAGAA  
 CAACGGGCAGGTGTACAGCTTGTCTAACTCGGGCTCTGAGTACGTGCCCGGGGCCCAACGAGGGGAG  
 ACTAGCTCCAGGGTTCTACTGGCAGGCGCGCCCAAACGTCGACGCGGCAGTACAGGGGGACCCCGGC  
 GTCGGCAGGCGCCGTCCTGCCCTGCCCGACGCGTGGGTTCGGACACTGTGCGCGGCCAAACGCGGCA  
 CCCGTTTCGGCTTCGGCCAGGTGCCGACAACGGAGAGAGGTGGCCGTCGGGGACAGTACCGGCATGGCT  
 CGGGCCCGCACCTCCGCTCTCCAGCAACGGCACGGGGCTCCGCTCCTCCTCGGTTTCGGCTCGGCT  
 TCGCCACCACCTATCGCCAGCCATCCTCTACCCGACGAGTTCCTATCCGCAGGCGCCCTTCGTA  
 CCAGTATGAGAACTACGATCCCGCTCACGGACCTACGAACAGGGCTACGTGTACTACCGTGGTGGGGC  
 GGCGGCATGGGCGCGGGGACGGGCTGTAGCCTCGGCTGGGGTATCTATCCCTTCAGCCCGGGCGC  
 GTTACGAGGACTACGGAGGTGGAGGAGGCGAGGAGCAGCCGAGTACCCGGCCAGGGCTTTTACCCAGC  
 CCCAGAGAGGCCATGTGCCAGCCCAACCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCC  
 TCCGACGGCCTTGACCGTCTACTCGCACAGCCTGTACAATGAAGGCACCCCGGATTTCGAGCAGGCT  
 ACCCTGATCCCAGCACGCTGTGCGAGGCCCCCGGGGGCCGGTGGCACCTACGGTGGCGCTGGCGA  
 TCCTCGCTCGGCTGGTACCCGCCATGACGCAATGTGCCACCGAGGCTACGTCCCTCCGCTGGC  
 GTGGAGCCACAGCCCCATTCCGCGTCTGGAGCCACTTACTGCCCGTGCAGGCTGTGATGCGCCCT  
 CCCAGGGTGGGAGCGGAACGGGCGCCAGCAGGGCCGCTCAGCGTGGTGTGTGTACCGCCACCA  
 GAATGGTCGCGGCTCCCTGACTTAGTCCCGGACCCTAACTACGTGCAGGCATCCACATACGTGCAGAGA  
 GCCCATCTGACTCCTTGCATGCGCAGCAGAGGAGAAGTGCCTGGCCAGCACAGCCTATGCCCTGAGG  
 CTACCGACTATGACCTCCGAGTCTATTGCGCTTCCCCAGCGAGTGAACCAAGGCACAGCGGACTT  
 TCTCCCAACCGCCACGCCACCTGGGAGTGGCATAGCTGTACCAACATTACCACAGCATGGACGAG  
 TTCAGCCACTACGACCTGCTTGTATGCATCCACGGCAAGAAGGTAGCCGAGGGACACAAGGCCAGCTTCT  
 GCCTGGAGGACAGCACCTGTGACTTCGGCAACCTCAAGCGCTATGCCTGCACCTCTCACACGAGGGCT  
 GAGTCCAGGCTGTATGACACATAAATGCGGACATTGACTGCCAGTGGATCGACATAACTGATGTGAC  
 CCTGGGAACATCCTCAAGGTGCACGTGAACCCCAAGTACATTGTTCTGGAGTCTGACTTCACCAACA  
 ACGTGGTGTGAGATGCAACATCCACTACACAGTCTGCTACGTTTCTACAACAACTGCAAAATCGTCCAGTC  
 C

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

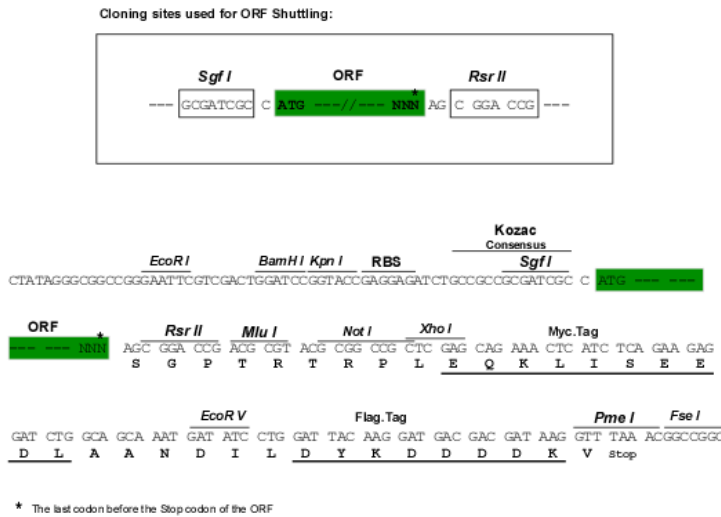
>MR209361 protein sequence  
 Red=Cloning site Green=Tags(s)

MALAGAGSQLRTL VWSACL CVL VHQQQAQPGQSDPGRWRQL IQWENNGQVYSL LNSGSEYVPAGPQRGE  
 TSSRVLLAGAPQTSQRRSQGPRRRQAPSLPLPGRVGS DTVRGQTRHPFGFGQVPDNWREAVGDSTGMA  
 RARTSVSQQRHGSASSVSASAFATTYRQPSSYPQFPYPQAPFVNQYENYDPASRTYEQGYVYRAG  
 GGMGAGAAVASAGVIYPFQPRARYEDYGGGGEEQPEYPAQGFYPAPERPYVPQPQPQPQPQPQP  
 SDGLDRRYSHSLYNEGTPGFEQAYDPDSTDVVSQAPAGAGGTGGAGDPRLGWYPPYAANVPPEAYVPPRA  
 VEPQPPFRVLEPPYL PVRSSDAPSQGGERNGAQQGRLSVGSVYRPNQNGRGLPDLVDPDNYVQASTYVQR  
 AHLYSLRCAAEEKCLASTAYAPEATDYDLRVLLRFPQRVKNQGTADFLPNRPRHTWEHWSCHQHYHSMDE  
 FSHYDLLDASTGKKVAEGHKASFLEDSTCDFGNLKRYACTSHTQGLSPGCDTYNADIDCQWIDITDVQ  
 PGNVILKVHVNPKYIVLESDFTNVVRNCIHYTGRYVSTTNCKIVQS

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDK**V**

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM\_010729

ORF Size: 1824 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\\_010729.3](#)

RefSeq Size: 3338 bp

RefSeq ORF: 1824 bp

Locus ID: 16949

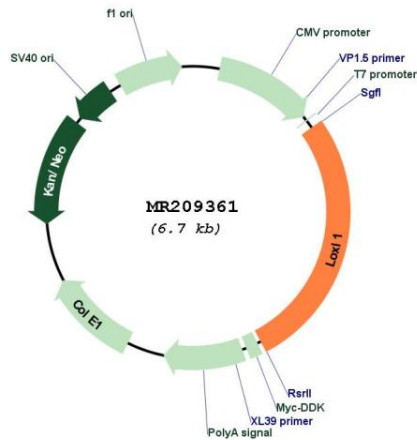
UniProt ID: [P97873](#)

**Cytogenetics:** 9 31.65 cM

**MW:** 66.5 kDa

**Gene Summary:** This gene encodes a member of the lysyl oxidase family of copper-dependent enzymes that catalyze the formation of lysine-derived crosslinks in proteins such as collagen and elastin. The encoded preproprotein undergoes proteolytic processing to generate the mature, functional enzyme. Mice lacking the encoded protein fail to deposit normal elastic fibers in the uterine tract post partum and develop pelvic organ prolapse, enlarged airspaces of the lung, loose skin and vascular abnormalities with concomitant tropoelastin accumulation. [provided by RefSeq, Sep 2016]

**Product images:**



Circular map for MR209361