

## Product datasheet for MR206463

### Lox (NM\_010728) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lox (NM_010728) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lox
Synonyms:	A1893619; rrg; TSC-16; TSC-160
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206463 representing NM_010728 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGTTTCGCTGGGCTGTGCTCCTTCTGGGGCCACTGCAGCTTTGTCCCCTTCTCCGCTGCGCCCGC  
AGACCCCGCGGAGCCGCCGCCCTTGGTGCCTGGCGCCAGACAATCCAATGGGAGAACAACGGGCA  
GGTGTTCAGTCTGCTGAGCCTCGGGCGCAGTACCAGCCTCAGCGACGCCGACCCAGTGCCACTGCC  
CGGAGACCCGACGGGACGCAGCCTCGCAGCCGCGCACGCCATTCTTCTGCTGCGTGACAACCGCACCG  
CCTCTACCCGTGCGAGGACGCCAAGCCCGTCTGGGGTCCGCGGGTCTGTCGCCCGCCGCCCGCCGCCA  
CTGTTTCCAAGCTGGTTTCTCGCCGTCGGGGCTCGCGATGGAGCCTCACGGCGCGGGCAACCGGACT  
GCATCGCCACAGCCTCCGAGCTCAGTAATCTGAGGCCACCCAGCCACATAGATCGCATGGTGGGCGACG  
ACCCCTACAATCCCTACAAGTACTCCGACGACAACCCCTATTATAACTACTATGACACGTATGAGAGGCC  
CCGGCCCGGGAGCAGGAACCGACCTGGATACGGCACCGGTTACTTCCAGTACGGTCTCCCGGACCTGGT  
CCCAGCCCTACTACATCCAGGCTTCCACGTACGTCCAGAAGATGTCTATGTACAACCTGAGATGCGCTG  
CGAAGAAAAGTGCCTGGCCAGTTCAGCATATAGGGCGGATGTCAGAGACTATGACCACAGGGTACTGCT  
ACGATTTCCGCAAAGAGTGAAGAACCAAGGGACATCGGACTTCTTACCAAGCCGCCCTCGTACTCCTGG  
GAGTGGCACAGCTGTCACCAACATTACCACAGCATGGACGAATTCAGCCACTATGACCTGCTTGATGCCA  
ACACACAGAGGAGTGGCTGAAGGCCACAAGCAAGCTTCTGTCTGGAGGACAGCTCCTGTGACTATGG  
GTACCACAGGCGCTTTGCGTGCCTGCACACACAGGGATTGAGTCTGGATGTTATGACACCTATGCG  
GCAGACATAGACTGCCAGTGGATTGATATTACAGATGTACAACCTGGAACTACATTCTAAAGGTGAGTG  
TAAACCCAGCTACCTGGTGCCTGAATCAGACTACACTAACAAATGTTGTACGCTGTGACATTCGCTACAC  
AGGACATCATGCCTATGCCTCAGGCTGCACAATTCACCGTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206463 representing NM\_010728  
 Red=Cloning site Green=Tags(s)

MRF~~AW~~VLLLLGPLQLCPLLRCAPQTPREPPAAPGAWRQTIQWENNGQVFSLLSLGAQYQPQRRRDPSATA  
 RRPDGDAAASQPRTPILLRLRDNRTASTRARTPSPSGVAAGRPRPAARHWFQAGFSPSGARDGASRRANRT  
 ASPQPPQLSNLRPPSHIDRMVGD~~DP~~PNYPKYSD~~DN~~PYYNYDYTYERPRPGSRNRPGYGTGYFYGLPDLV  
 PDPYYIQASTYVQKMSMYNLRCAAEE~~EN~~CLASSAYRADVRDYDHRVLLRFPQRVKNQGTSDFLPSRPRYSW  
 EWH~~SCH~~QHYHSMDEFSHYDLLDANTQRRVAEGHKASF~~LED~~TSCDYGYHRRFACTAHTQGLSPGCYDTYA  
 ADIDCQWIDITDVQPGNYILKVS~~VN~~PSYLVPE~~SD~~YTN~~NV~~VRCDIRYTGHHAYASGCTISPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010728

**ORF Size:** 1233 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_010728.3](#)

**RefSeq Size:** 3604 bp

**RefSeq ORF:** 1236 bp

**Locus ID:** 16948

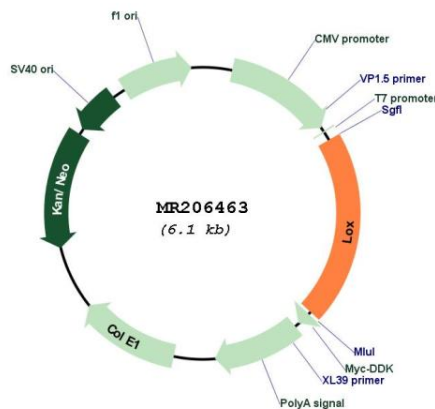
**UniProt ID:** [P28301](#)

**Cytogenetics:** 18 28.22 cM

**MW:** 47.2 kDa

**Gene Summary:** This gene encodes a precursor protein that belongs to the lysyl oxidase family of proteins. The secreted proprotein is proteolytically processed to an active mature peptide and a propeptide. This propeptide is thought to function in tumor suppression by inhibiting the Ras signaling pathway. The active enzyme plays a role in cross-linking of collagen and elastin and is essential for development of cardiovascular and respiratory systems, and development of skin and connective tissue. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2013]

### Product images:



Circular map for MR206463