

Product datasheet for MR229764

Lox (NM_001286182) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lox (NM_001286182) 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:	>MR229764 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGTTTCGCTGGGCTGTGCTCCTTCTGGGGCCACTGCAGCTTTGTCCCCTTCTCCGCTGCGCCCCGC
AGACCCCGCGGAGCCGCCGCCCTTGGTGCCTGGCGCCAGACAATCCAATGGGAGAACAACGGGCA
GGTGTTCAGTCTGCTGAGCCTCGGGGCGCAGTACCAGCCTCAGCGACGCCGACCCAGTGCCACTGCC
CGGAGACCCGACGGGACGCAGCCTCGCAGCCGCGCACGCCATTCTTCTGCTGCGTGACAACCGCACCG
CCTCTACCCGTGCGAGGACGCCAAGCCCGTCTGGGGTCCGCGGGTCTGTCGCCCGCCGCCCGCCGCCA
CTGTTTCCAAGCTGGTTTCTCGCCGTGGGGGCTCGCGATGGAGCCTCACGGCGCGGGCAACCGGACT
GCATCGCCACAGCCTCCGAGCTCAGTAATCTGAGGCCACCCAGCCACATAGATCGCATGGTGGGCGACG
ACCCCTACAATCCCTACAAGTACTCCGACGACAACCCCTATTATAACTACTATGACACGTATGAGAGGCC
CCGGCCCCGGGAGCAGGAACCGACCTGGATACGGCACCGGTTACTTCCAGTACGGTCTCCCGGACCTGGT
CCCGACCCCTACTACATCCAGGCTTCCACGTACGTCCAGAAGATGTCTATGTACAACCTGAGATGCGCTG
CGGAAGAAAAGTGCCTGGCCAGTTCAGCATATAGGGCGGATGTCAGAGACTATGACCACAGGGTACTGCT
ACGATTTCCGCAAAGAGTGAAGAACCAAGGGACATCGGACTTCTTACCAAGCCGCCCTCGGTACTCCTGG
GAGTGGCACAGCTGTACCAACATTACCACAGCATGGACGAATTCAGCCACTATGACCTGCTTGATGCCA
ACACACAGAGGAGTGGCTGAAGGCCACAAGCAAGCTTCTGTCTGGAGGACACGTCCTGTGACTATGG
GTACCACAGGCGCTTTGCGTGCCTGCACACACAGGGATTGAGTCTGGATGTTATGACACCTATGCG
GCAGACATAGACTGCCAGTGGATTGATATTACAGATGTACAACCTGGAACTACATTCTAAAGGTGAGTG
TAAACCCAGCTACCTGGTGCCTGAATCAGACTACACTAACAATGTTGTACGCTGTGACATTCGCTACAC
AGGACATCATGCCTATGCCTCAGGCTGCACAATTCACCGTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229764 protein sequence
 Red=Cloning site Green=Tags(s)

MRF~~AWAVLL~~LGPLQLCP~~LLRCAPQ~~TPREPPAAPGAWRQTIQWENNGQVFSLLSLGAQYQPQRRRDPSATA
 RRPDGDAA~~SQPRTP~~ILLRLRDNRTASTRARTPSPSGVAAGRPRPAARHWFQAGFSPSGARDGASRRAANRT
 ASPQPPQLSNLRPPSHIDRMVGGDDPYNPYKYSDDN~~PYYNYDY~~TYERPRPGSRNRPYGTGYFYGLPDLV
 PDPYYIQASTYVQKMSMYNLRCAAEE~~NCLASSAYRADVRDY~~DHRVLLRFPQRVKNQGTSDFLPSRPRYSW
 EWH~~SCHQHYHSMDEF~~SHYDLLDANTQRRVAEGHKASF~~CLEDT~~SCDYGYHRRFACTAHTQGLSPGCYDTYA
 ADIDCQWIDITDVQPGNYILKVS~~VNPSYLV~~PE~~SDYTNNV~~VRCDIRYTGHHAYASGCTISPY

TRTRPLE~~QKLISEEDLA~~ANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001286182

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.

RefSeq: [NM_001286182.1](#), [NP_001273111.1](#)

RefSeq Size: 4494 bp

RefSeq ORF: 1236 bp

Locus ID: 16948

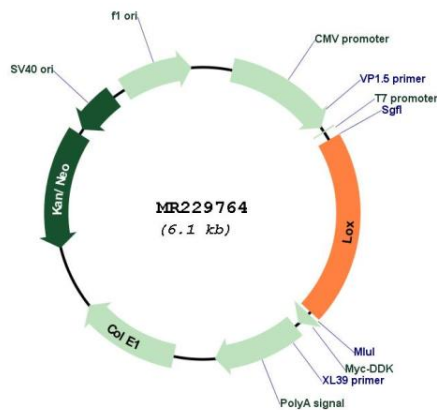
UniProt ID: [P28301](#)

Cytogenetics: 18 28.22 cM

MW: 46.7 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 MR229764