

Product datasheet for **RG229651**

LOX (NM_001178102) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LOX (NM_001178102) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LOX
Synonyms: AAT10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229651 representing NM_001178102
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCATGTACAACCTGAGATGCGCGGGGAGGAAAACCTGTCTGGCCAGTACAGCATACAGGGCAGATG
TCAGAGATTATGATCACAGGGTGTCTGCTCAGATTTCCCAAAGAGTAAAAACCAAGGGACATCAGATTT
CTTACCCAGCCGACCAAGATATTCCTGGGAATGGCACAGTTGTCATCAACATTACCACAGTATGGATGAG
TTTAGCCACTATGACCTGCTTGATGCCAACCCAGAGGAGAGTGGCTGAAGGCCACAAAGCAAGTTTCT
GTCTTGAAGACACATCCTGTGACTATGGCTACCACAGGCGATTTGCATGTACTGCACACACACAGGGATT
GAGTCCTGGCTGTTATGATACCTATGGTGCAGACATAGACTGCCAGTGGATTGATATTACAGATGTAAAA
CCTGAAACTATATCCTAAAGGTCAGTGTAAACCCAGCTACCTGGTTCCTGAATCTGACTATACCAACA
ATGTTGTGCGCTGTGACATTCGCTACACAGGACATCATGCGTATGCCTCAGGCTGCACAATTTCCACCGTA
T

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229651 representing NM_001178102
Red=Cloning site Green=Tags(s)

MSMYNLRCAAENCLASTAYRADVDRDYDHRVLLRFPQRVKNQGTSDFLPSRPRYSWEHWSCHQHYHSMDE
FSHYDLLDANTQRRVAEGHKASFLEDTSCDYGYHRRFACTAHTQGLSPGCYDTYGADIDCQWIDITDVK
PGNYILKVSVNPSYLVESDYTNVVRCDIRYTGHHAYASGCTISPY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001178102

ORF Size: 561 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_001178102.2](#)

RefSeq Size: 4393 bp

RefSeq ORF: 564 bp

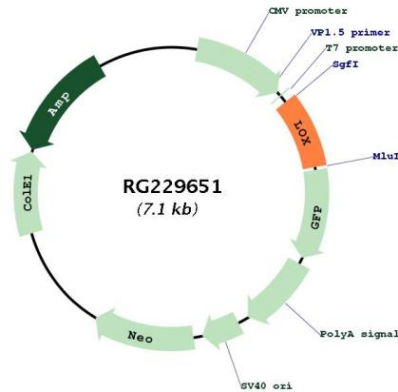
Locus ID: 4015

Cytogenetics: 5q23.1

Protein Families: Druggable Genome, Secreted Protein

Gene Summary:

This gene encodes a member of the lysyl oxidase family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate a regulatory propeptide and the mature enzyme. The copper-dependent amine oxidase activity of this enzyme functions in the crosslinking of collagens and elastin, while the propeptide may play a role in tumor suppression. In addition, defects in this gene have been linked with predisposition to thoracic aortic aneurysms and dissections. [provided by RefSeq, Jul 2016]

Product images:


Circular map for RG229651