

## Product datasheet for **MG206463**

### Lox (BC018439) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lox (BC018439) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lox
Synonyms:	A1893619; rrg; TSC-160
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206463 representing BC018439 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGTTTCGCTGGGCTGTGCTCCTTCTGGGGCCACTGCAGCTTTGTCCCCTTCTCCGCTGCGCCCCGC  
AGACCCCGCGGAGCCGCCCGCCCTGGTGCCTGGCGCCAGACAATCCAATGGGAGAACAACGGGCA  
GGTGTTCAGTCTGCTGAGCCTCGGGCGCAGTACCAGCCTCAGCGACGCCGACCCAGTGCCACTGCC  
CGGAGACCCGACGGCGACGCAGCCTCGCAGCCGCGCACGCCATTCTTCTGCTGCGTGACAACCGCACCG  
CCTCTACCCGTGCGAGGACGCCAAGCCCGTCTGGGGTCCGCGGGTCTGTCGCCCGCCCGCCGCCCA  
CTGTTTCCAAGCTGGTTTCTCGCCGTCGGGGCTCGCGATGGAGCCTCACGGCGCGGGCAACCGGACT  
GCATCGCCACAGCCTCCGAGCTCAGTAATCTGAGGCCACCCAGCCACATAGATCGCATGGTGGGCGACG  
ACCCCTACAATCCCTACAAGTACTCCGACGACAACCCCTATTATAACTACTATGACACGTATGAGAGGCC  
CCGGCCCGGGAGCAGGAACCGACCTGGATACGGCACCGGTTACTTCCAGTACGGTCTCCCGGACCTGGT  
CCCAGCCCTACTACATCCAGGCTTCCACGTACGTCCAGAAGATGTCTATGTACAACCTGAGATGCGCTG  
CGAAGAAAAGTGCCTGGCCAGTTCAGCATATAGGGCGGATGTCAGAGACTATGACCACAGGGTACTGCT  
ACGATTTCCGCAAAGAGTGAAGAACCAAGGGACATCGGACTTCTTACCAAGCCGCCCTCGGTACTCCTGG  
GAGTGGCACAGCTGTCACCAACATTACCACAGCATGGACGAATTCAGCCACTATGACCTGCTTGATGCCA  
ACACACAGAGGAGTGGCTGAAGGCCACAAGCAAGCTTCTGTCTGGAGGACACGTCCTGTGACTATGG  
GTACCACAGGCGCTTTGCGTGCCTGCACACACAGGGATTGAGTCTGGATGTTATGACACCTATGCG  
GCAGACATAGACTGCCAGTGGATTGATATTACAGATGTACAACCTGGAACTACATTCTAAAGGTGAGTG  
TAAACCCAGCTACCTGGTGCCTGAATCAGACTACACTAACAAATGTTGTACGCTGTGACATTCGCTACAC  
AGGACATCATGCCTATGCCTCAGGCTGCACAATTCACCGTAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206463 representing BC018439  
 Red=Cloning site Green=Tags(s)

MRF<sup>AWAVLL</sup>LGLPLQLCP<sup>LL</sup>RCA<sup>PQ</sup>TPREPPA<sup>AP</sup>GAW<sup>RQ</sup>TIQWEN<sup>NG</sup>QVFSLLSLGA<sup>QY</sup>QP<sup>RR</sup>RRDPSATA  
 RRPD<sup>GDAASQ</sup>PRTPILL<sup>LR</sup>DNRTAST<sup>RART</sup>PS<sup>SG</sup>VAA<sup>GR</sup>PRPAAR<sup>HW</sup>FQAG<sup>F</sup>SPSGARDGAS<sup>RR</sup>AA<sup>NR</sup>T  
 ASP<sup>Q</sup>PPQLSNL<sup>RPP</sup>SHID<sup>RM</sup>VGDD<sup>PP</sup>YN<sup>PK</sup>YSD<sup>DN</sup>PPY<sup>NY</sup>YD<sup>TY</sup>ER<sup>PR</sup>PG<sup>SR</sup>NR<sup>PG</sup>YGT<sup>GY</sup>FQYGL<sup>PD</sup>LV  
 PDP<sup>Y</sup>YIQAST<sup>YV</sup>QKMS<sup>MY</sup>NLRCA<sup>AE</sup>ENCL<sup>ASSA</sup>YRAD<sup>VR</sup>DYD<sup>HR</sup>VLLR<sup>FP</sup>Q<sup>R</sup>VKN<sup>Q</sup>GTSD<sup>FL</sup>PS<sup>RP</sup>RY<sup>SW</sup>  
 E<sup>W</sup>HS<sup>CH</sup>Q<sup>H</sup>Y<sup>H</sup>SM<sup>DE</sup>F<sup>SH</sup>YD<sup>LL</sup>DANT<sup>QRR</sup>V<sup>AE</sup>G<sup>H</sup>K<sup>A</sup>S<sup>F</sup>CL<sup>ED</sup>TSC<sup>DY</sup>G<sup>Y</sup>H<sup>RR</sup>FACT<sup>AHT</sup>Q<sup>GL</sup>SP<sup>GC</sup>Y<sup>D</sup>TYA  
 AD<sup>ID</sup>C<sup>Q</sup>W<sup>ID</sup>IT<sup>DV</sup>Q<sup>PN</sup>Y<sup>IL</sup>K<sup>V</sup>SV<sup>N</sup>PS<sup>YL</sup>VP<sup>ES</sup>DY<sup>TN</sup>N<sup>V</sup>VR<sup>CD</sup>IR<sup>Y</sup>T<sup>G</sup>H<sup>H</sup>AY<sup>AS</sup>G<sup>CT</sup>IS<sup>PY</sup>

TRTRPLE - GFP Tag - V

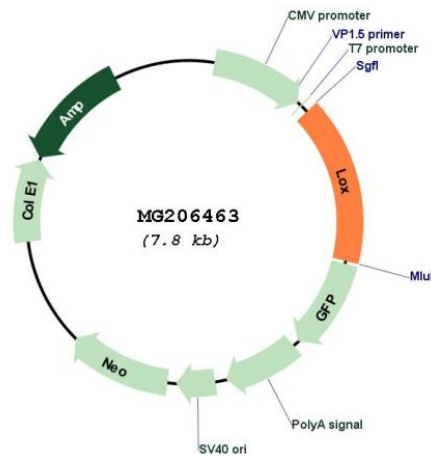
**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

BC018439

<b>ORF Size:</b>	1235 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">BC018439</a> , <a href="#">AAH18439</a>
<b>RefSeq Size:</b>	3916 bp
<b>RefSeq ORF:</b>	1235 bp
<b>Locus ID:</b>	16948
<b>Cytogenetics:</b>	18 28.22 cM
<b>Gene Summary:</b>	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]