

Product datasheet for **MG210193**

Lpo (NM_080420) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lpo (NM_080420) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lpo
Synonyms:	5830499B15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210193 representing NM_080420
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAAAGTGCTTCTGCATCTCCCAGCCCTCTGGCTTCCCTGACCTTGCTCCAGACTGCGGCATCTGCCA
 GCGATGATCCAACCTGCCGAACTGACATCATCCACGACACAGTGAAGAGGTCAAGGTCTGGGTCAACAA
 GGCTTCTCTGGATTCCCGGGACAGGCTGAAGATGGCCATGACAACCAAGATACATAGCACCCGTCATCTG
 TCAGATTATCTCAAGCATGCCAAAGCCGGACACGCACAGCCATCCGGAGTGGCAGGTGTGGGAAGAGT
 CCCTAAAGAACTGTCTCAGTTTCTACCAATGTCACAGGTCAAGGCCTGGACTTGACTTCGCTCTCTTG
 GGAGGCGGGCTGTGATCCCCCTGCTCCAACAATGACTTGAACATAAGTAGCCCTTACCGGACCATCACT
 GGATACTGTAACAACAGGAAGAATCCAGCGCTGGGATCCGCCAACAGGGCGCTGGCTCGATGGTGCCCG
 CCGAATACGAGGACGGGCTCTCCCTCCCTTACGGGTGGACGCCGGGAAGATGCGGAACGGCTTCCCTCT
 CCCGCAGCCCCGTGAAGTCTTAACCAGATTGCAGCCTATCTGAATGAGGAGGACGTTCTGGACCAGAAG
 AGATCCATGCTTTCATGCAAGTGGGGTCAAATCGTGGACCACGACATGGACTTTGCCCTGAAACTGAAA
 TGGGGAGTGATACCTACACCAAAGCCAGTGTGACGAACACTGTATCCAGGGAGACAACCTGTTCCCCAT
 CATGTTCCCACTGGTGACCCTAAATTAAGACTCAGGGGAAGTGCATGCCTTTCTTCAGAGCTGGATTT
 GTCTGCCCCACACCGCCCTACAAATCCCTGGCCCGAGAGCAGATCAATGCCTAACCTTTCTCTGGATG
 CTAGCCTAGTGTATAGCCCTGAGCCAAGCTGGCAATCGACTTAGAAACCTCAGCAGCCCTTGGGCT
 CATGGCTGTCAATGAAGAAGTCTCAGACAATGGGCGGCCCTTCCGCCTTTCGTCAAATGAAACCCAGC
 CCCTGCGAGGTCAATGCCACAGCTGGTGTGCCCTGCTTCTTGGCAGGGGACTCCCGAGCCTCAGAGC
 AGATCTTGCTGGCCACATCCCACACACTTTTATCCGGGAGCACAAACCGTTGGCCACAGAATAAGCAG
 ACTCAACCCGCATTGGGACGGAGAGACGCTCTATCAGGAAGCAAGGAAAAATCATGGGAGCCTTCATACAG
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 AAGGCTACAATGAGTCTGTAGACCCCCGAATTTCCAATGTCTTACCTTTGCTTACGCTTCGGCCACTT
 GGAGATCCCTCTACTGTGTCCCGCTAGATGAGAATTATCAGCCGTGGGGTTCAGAATCTGAGCTACCC
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 TGTTGGCCAAGAATGCCAAGTTGATGCATCAGAACAAAATGATGACAGGCGAGCTCGAAACAAGCTGTT
 CCAACCGAATCACACCATCCACGGCTTCGACCTGGCTTCCATCAACATACAGCGGAGCAGAGACCACGGG
 CAGCCTGGGTACAATTCCTGGAGAGCTTCTGTGGCCTGTCCCAACAAAAACACTAGAGGAGCTGAGTG
 CTGTCATGAAAAACGAGGTGCTGGCCAAGAAGCTGATGGACCTCTATGGAACCCCGAGCAACATTGATAT
 CTGGCTAGGGGCCGTCGCTGAACCCCTGGTCCACAGGGTTCGGGTGGGGCCTCTCTTGACCTGTCTCCTG
 GGCCAGCAGTTCCAGCGGATCCGAGATGGAGACAGGTTCTGGTGGGAGAACCCCGGGGTCTTACAGAGA
 AGCAACGGGAGTCTACAGAAGATGTCCTTCTCCCGCCTGGTCTGTGACAACACTGGCATCGACAAGGT
 CCCACTGAACCCGTTCCAGGCTAATGCCTACCCCATGGCTTTGTGGACTGCTCTCAATTGATAAGCTG
 GACCTCTACCCCTGGGCTCAGTGAAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210193 representing NM_080420
 Red=Cloning site Green=Tags(s)

MKVLLHLPALLASLTLLQTAASASDDPTAETDIIHDTVEEVKVVWNKAFLDSDRDLKMMAMTTKIHSTRHL
 SDYLKHAKGRTRTAIRSGQVWEESLKKLSQFLTNVTGQGLDLSLSWEAGCDPPAPTMTCNISSPYRTIT
 GYCNRKNPALGSANRALARWLP AEYEDGLSLPYGWTPGKMRNGFPLPQPREVSNQIAAYLNEEDVLDQK
 RSMLFMQWQIVDHDMDFAPETEMGSDTYTKAQCDEHCIQGDNCFPIMFPPGDPKLTQGKCMPPFRAGF
 VCPTPPYKSLAREQINALTSFLDASLVYSPEPSLANRLRNLSSPLGLMAVNEEVSDNGRPFPPFVKMKPS
 PCEVINATAGVPCFLAGDSRASEQILLATSHTLFIREHNRLATELSRLNPHWDGETLYQEARKIMGAFIQ
 ITTFRDYLPILLGDEMQRWIPPYQGYNESVDPRI SNVFTFALRFHGLEIPSTVSRLDENYQPWGSESELP
 LHTVFFNTWRLVKDGIDPLVRGLLAKNAKLMHQNKMMTGELRNKLFQPNHTIHGFDLASINIQRSDHG
 QPGYNSWRAFCGLSQPKTLEELSAVMKNEVLAKKLMDLYGTPSNIDIWLGAVAEPVHRGRVGPLLTCLL
 GQQFQRIRDGRFVWENPGVFTKQRESLQKMSFSRLVCDNTGIDKVPLNPFQANAYPHGFVDCSSIDKL
 DLSPWASVKE

TRTRPLE - GFP Tag - V

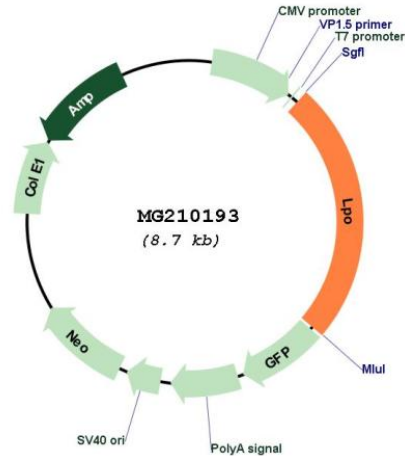
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_080420

ORF Size: 2130 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_080420.1](#), [NP_536345.1](#)

RefSeq Size: 2955 bp

RefSeq ORF: 2133 bp

Locus ID: 76113

Cytogenetics: 11 C