

Product datasheet for **MG216162**

Lin54 (NM_001115010) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Lin54
Synonyms:	AI461788
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG216162 representing NM_001115010
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGTGGTCCGGCCGAGGTGAATAGTTTGCTCCAGACGACATAATGGACTGCTATAACGTTAG
TGGATGAGGATAGTATTGAGGCTGTAATTGTGTATCCCAATTCATGGAGACAGAGCTGGAAGAAAT
TGTCACATAAATCTACCGGTGACTCTACAGCCACGCCCATTTCCACGGAACCAATCACAGTGTACAGT
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

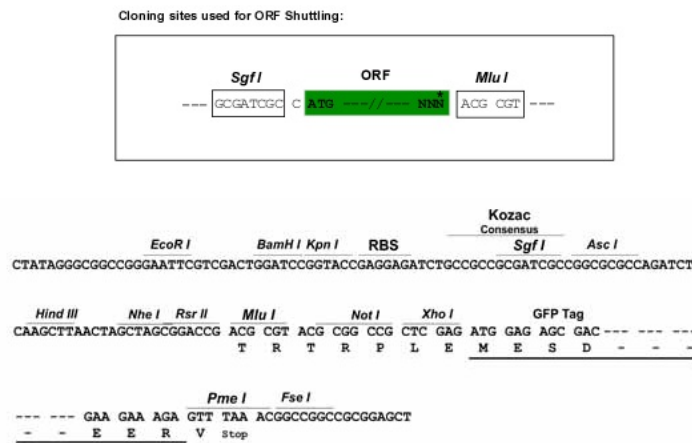
Protein Sequence: >MG216162 representing NM_001115010
 Red=Cloning site Green=Tags(s)

MEVPPAEVNSLLPDDIMDTAITLVDEDSIEAVIVSSPIMETELEEIVNINSTGDSTATPISTEPITVYS
 NHTNQVAVNTTVSKADSNTTVKPAFPSSLQKLGAQTPVTISANQIILNKVSQTSDLKLGNTLKPDPGQKL
 ILTTLGKSGSPIVLALPHSQLPQAQKVTAQAQPGDAKLPPQQIKVVTIGGRPEVKPVIGVSALTPGSQLI
 NTTTQPSVLQTTQLKTVQIAKKPRTPTSGPVITKLIFAKPINSKAVTGQTTQASPPVVTGRVLSQSTPGT
 PSKTIITISESGVIGSTLNSTTQTPNKIAISPLKSPNKTVKSAVQTIITVGGMSTSQFKTIIPLATAPNVQQ
 IQVPGSKFHYVRLVTATASSAQPVSQSPSVNTQPLQQAQKPVVVNTTPVRMSVPFVQAQAVKQVVPKPI
 NSTSQIVTTSQPQQLIMPATPLPQIQPNLTNLPPGTVLAPAGTGNVGYAVLPAQYVTVLQSSVYSIA
 SNSNF TGTSGIQTQARLPFNGIIPSESTSRPRKPCNCTKSLCLKLYCDCFANGEF CNNCNCNTNCYNNLEH
 ENERQKAIKACLDRNPEAFKPKIGKGESEDRRHSGCNCCKRSGCLKNYCECYEAKIMCSSICKIGCK
 NFEESPERKTLMLLADAAAEVRVQQQTAATKLSQISDLLTRPTPALNSAGGKLPFTFVTKVEAEATCNC
 LLAQAEQADKKGSKAAAERMILEEFGRCLMSVINSAGKAKSDPCAMHC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001115010

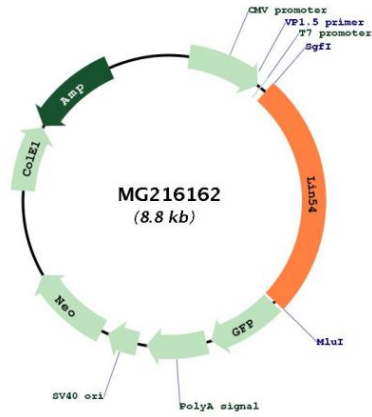
ORF Size: 2247 bp

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:	<ol style="list-style-type: none">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_001115010.1 , NP_001108482.1
RefSeq Size:	4596 bp
RefSeq ORF:	2250 bp
Locus ID:	231506
UniProt ID:	Q571G4
Cytogenetics:	5 E4
Gene Summary:	Component of the DREAM complex, a multiprotein complex that can both act as a transcription activator or repressor depending on the context. In G0 phase, the complex binds to more than 800 promoters and is required for repression of E2F target genes. In S phase, the complex selectively binds to the promoters of G2/M genes whose products are required for mitosis and participates in their cell cycle dependent activation. In the complex, acts as a DNA-binding protein that binds the promoter of CDK1 in a sequence-specific manner. Specifically recognizes the consensus motif 5'-TTYRAA-3' in target DNA. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216162