

## Product datasheet for **MC221331**

### Lin54 (NM\_172714) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lin54 (NM_172714) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lin54
Synonyms:	AI461788
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221331 representing NM\_172714  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGTGGTGC CGGCCGAGGTGAATAGTTTGC TCCAGACGACATAATGGACTGCTATAACGTTAG  
 TGGATGAGGATAGTATTGAGGCTGTAATTGTGTCATCCCCAATCCCATGGAGACAGAGCTGGAAGAAAT  
 TGTC AACATAAATCTACCGGTGACTCTACAGCCACGCCATTTCCACGGAACCAATCACAGTGTACAGT  
 AACCACTAACCAAGTTGCAGTGAATACCACAGTTTCTAAAGCAGATTCTAATACCACAGTGAAACCAG  
 CATTTC AAGTGGCCTTCAAAAACCTGGTGTCTCAGACTCCTGTGACTATATCAGCCAATCAGATTATTTT  
 AAACAAAGTATCAGACATCTGATCTTAAACTGGCAATCAGACCCTTAAACCAGATGGACAGAAGTTA  
 ATATTAACAACCTTGGGCAAGTCTGGTTCACCAATTGTTTTAGCACTACCCCATAGCCAACCTACCCAGG  
 CTCAGAAAGTTACAGCTCAGGCCAGCCAGGAGATGCTAAGTTACCACCGCAGCAAAATTAAGTAGTTAC  
 CATTGGAGGGAGCCAGAGGTGAAACCTGTCATTGGTGTCTCAGCACTGACCCAGGAAGCCAACCTGATT  
 AATACTACAACCTCAGCCCTCTGTGTACAGACCAACAGTTAAAAACAGTACAGATTGCTAAGAAGCCTC  
 GGACACCAACCTCGGGTCCAGTGTACAGCAAGCTGATTTTTGCAAAACCAATTAATAGCAAAGCAGTTAC  
 AGGACAGACAACCTCAAGCATCTCCACCCGTCGTACAGGTAGGGTCTTTTACAGTCTACTCCTGGAAC  
 CCATCAAAGACTATAACAATATCAGAAAGTGGTGTGATTGGATCAACTTTAAATTCGACAACACAGACAC  
 CAAATAAGATAGCCATCTCACCTTTGAAGTCGCCAAATAAGACAGTGAATCGGCTGTGCAGACCATCAC  
 TGTGGGAGGAATGAGCACCTCACAGTTTAAAGCCATCATCCCTCTGGCCACTGCTCCCAATGTCCAGCAG  
 ATTCAAGTGCCTGGAAGCAAGTTTCATTATGTCGCACTGTTACTGCCACAACAGCCAGTGTGTTGTTAATC  
 AGCCAGTCAGTCAGAGCCCAAGTGTAAACACACAGCCTCTCCAGCAAGCAAAACCAAGTGGTTGTTAATC  
 CACCCCTGTACGGATGTACAGTTCATTTGTC AAGCTCAGGCCGTTAAGCAAGTTGTTCCAAAACCAATC  
 AATTCAACTTCACAAATTGTAACCTACCAGCCAGCCACAGCAGCGGCTCATCATGCCTGCCACACCACTGC  
 CTCAGATCCAGCCCAACCTCACTAACCTGCCACCAGGTAAGTGTGCTGGCACCAGCTCCAGGAACAGGGAA  
 TGTGGGCTATGCAGTGTCTCCAGCTCAGTATGTTACTCAGTTACAGCAGTCTTATATGTGTCTATAGCA  
 AGCAACTCTAATTTTACTGGAACATCTGGCATCCAGACACAGGCAAGGCTTCCATTCAATGGCATAATTC  
 CATCAGAGTCTACCAGTCGGCCAGAAAACCTGTAACGTACAAAATCACTGTGTTTGAATTA TACTG  
 TGATTGCTTTGCAATGGTGAATTTGCAACAACCTGCAACTGTACCAATGTTACAACAATTTAGAGCAC  
 GAGAATGAGAGACAAAAGCAATCAAGGCATGCCTTGATAGAAATCCGGAAGCCTTCAAGCCAAAGATAG  
 GAAAAGGAAAAGAGGGGGAGTCGGATCGGCGGCACAGCAAAGGCTGCAACTGCAAACGCTCGGGGTGCT  
 TAAAAACTACTGCGAGTGTATGAGGCAAAAATAATGTGTTCTTCTATATGCAAATGCATCGGCTGTAAG  
 AATTTTGAAGAAAGCCAGAACGGAAGACATTGATGCACTTAGCAGATGCGGCTGAAGTAAGGGTCCAGC  
 AGCAGACAGCAGCGAAGACCAAGCTGTCCTCTCAGATCTCAGACCTCCTTACAAGCCAACCCAGCTCT  
 CAACAGTGCAGGAGGAAATGCCGTTTACATTTGTAAC TAAAGAAGTAGCTGAAGCCACGTGTAATTC  
 CTTCTTGCCAGGCAGAGCAGGCAGACAAGAAGGGGAAATCAAAGGCGGCAGCAGAGCGGATGATACTTG  
 AGGAATTTGGACGATGTTTGTGATGAGCGTCATCAACTCTGCAGGAAAAGCCAAAAGTGACCCCTGTGCCAT  
 GCACTGC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_172714  
**Insert Size:** 2250 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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="#">NM_172714.4</a> , <a href="#">NP_766302.2</a>
<b>RefSeq Size:</b>	4464 bp
<b>RefSeq ORF:</b>	2250 bp
<b>Locus ID:</b>	231506
<b>UniProt ID:</b>	<a href="#">Q571G4</a>
<b>Cytogenetics:</b>	5 E4
<b>Gene Summary:</b>	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>