

Product datasheet for **RN211033**

Lin54 (NM_001100564) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lin54 (NM_001100564) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Lin54
Synonyms:	RGD1311361
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN211033 representing NM_001100564
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGTGGTGCCGGCCGAGGTGAATAGCTTGCTTCAGACGACATAATGGACTGCTATTACTTTAG
 TGGATGAGGATAGCATTGAGGCTGTAATTGTGTATCCCCAATCCCATGGAGACAGAAGTGAAGAAAT
 TGTGAGCATAAATCTACTGGTACTCTACAGCCACGCCATTTCCACGGAACCAATCACAGTGTACAGT
 AATCACACTAACCAAGTTGCAGTGAATACCACAGTTTCTAAAGCAGACTCCAATACCACAGTGAAACCGAG
 CATTTCCGAGTGGCCTTCAAAGCTTGGTCTCAGACTCCTGTGACTATATCAGCCAATCAGATTATTTT
 AAACAAAGTATCAGACATCTGATCTTAACTTGGCAATCAGACCTTAAACCAGATGGACAGAAGTTA
 ATCTTAACAATTTGGGCAAGTCTGGCTACCAATTGTTTAGCACTTCCCATAGCCAATACCCAGG
 CTCAGAAAGTTACAGCTCAGGCCAACAGGAGACGCTAAGTTACCACCGCAGCAGATCAAAGTAGTTAC
 CATTGGAGGGAGGCCAGAGGTGAAACCTGCCATTGGGGTCTCAGCACTGACCCAGGAAGTCAACTGATT
 AATACCACAACCTCAGCCCTCTGTGTACAGACCAACAGTTAAAAACAGTGCAGATTGCTAAGAAGCCTC
 GAACACCAACCTCGGGTCCAGTGATCACGAAGCTGATTTTGGCAAAACCAATTAATAGTAAAGCAGTTAC
 GGGACAGACAACCTCAAGCGTCTCCACCCGTCGTACAGGCAGGGTTCTTTCACAGTCTGCTCCTGGAAC
 CCATCCAAGACTATAACAATATCAGAAAGTGGTGTATTGGCTCAACTTTAAATTCTACAACACAGACAC
 CAAATAAGATAGCCATCTCACCTTTGAAGTCACCAATAAGACAGTGAAGTCGGCTGTGCAGACCATCAC
 GGTGGGCGGAATGAGCACGTGCGAGTTTAAAGCATCATTCCTTGGCAGCTGCTCCCAATGTCCAGCCC
 ATTCAGTGCCTGGAAGCAAGTTTCATTATGTCCGACTCGTCACTGCCACAACCGCCGGTAGCTCAGCCC
 CACCACTCAGTCAGAGTCCCAGTGTCAACACTCAGCCTCTCAGCAAGCAAAGCCAGTGGTTGTTAATAC
 CACGCCTGTACGGATGTCAAGTTCATTTGTCCAAGCTCAGGCCGTTAAGCAAGTTGTTCCAAAACCAATC
 AATTCAACTTCACAAATTGTAACACTAGCCAGCCCCAGCAACGGCTCATCATGCCGGCCACACCACTGC
 CTCAGATCCAGCCCAACCTCACTAACCTGCCGCCAGGCACTGTGTTGGCGCCAGCTCCAGGAACGGGGA
 CGTGGGTACGCAAGTCTCCGGCTCAGTACGTCACTCAGTTGCAGCAGTCTCTACGTGTCGATAGCA
 GGCAACTCTAATTCACCGGGACATCGGGCATCCAGACACAGGCAAGGGTTTCATTCAACGGCATAATTC
 CATCAGAGTCTGCCAGTCGGCCAGAAAACCTGTAACGTACAAAATCACTGTGTTGAAATTACTG
 TGAAGTCTTTGCAATGGTGAATTCTGCAACAACGCAATTGTACCAATTGTTACAACAACCTAGAGCAT
 GAGAATGAGCGACAAAAGGCAATAAAGGCATGCCTTGACAGAAACCCGGAAGCCTTCAAGCCAAAGATAG
 GAAAAGGAAAAGAGGGGGAGTCGGATCGGCGGCACAGCAAAGGCTGTAACGTCAAACGGTCAGGGTGTCT
 TAAAAACTACTGCGAGTGCTATGAGGCAAAAATCATGTGCTCCTCCATATGCAAGTGCATCGGCTGTAAG
 AACTTCGAAGAAAGCCAGAACGGAAGACATTGATGCACTTAGCAGATGCGGCTGAAGTAAGGGTCCAGC
 AGCAGACAGCAGCGAAGACCAAGCTGTCTCTCAGATCTCAGACCTGCTTACCAGGCCACCCCGCTCT
 GAACAGTGGAGGAGGAAAATTGCCATTCACATTTGTAACATAAGAGTAGCTGAAGCCACGTGTAACCTGC
 CTTCTTGCCAGGCAGAGCAGGCAGACAAGAAGGGGAAATCAAAGGCGGCAGCAGAGCGGATGATCCTGG
 AGGAGTTTGGACGGTGTGATGAGCGTCATCAACTCTGCAGGAAAAGCAAAAAGTGACCCTGTGCCAT
 GCACTGC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001100564
Insert Size: 2250 bp

OTI Disclaimer:	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).
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:	<u>NM_001100564.1, NP_001094034.1</u>
RefSeq Size:	4340 bp
RefSeq ORF:	2250 bp
Locus ID:	305171
UniProt ID:	<u>Q641Z1</u>
Cytogenetics:	14p22
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]