

Product datasheet for **SC216334**

NLK (NM_016231) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	NLK (NM_016231) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	NLK
ACCN:	NM_016231
Insert Size:	1748 bp



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Insert Sequence: >SC216334 3' UTR clone of NM_016231
The sequence shown below is from the reference sequence of NM_016231. The complete sequence of this clone may contain minor differences, such as SNPs. **Red**=Cloning site
Blue=Stop Codon

CAATTGGCAGAGCTCAGAATTCAA**GCGATCGC**

CCATCTCTCTGGTGTGGGAG**TGA**TGGTGGGAAGATAATGTACTACTGAAGATGTAATGTAGCTTTCCACT
GGAGTCTGGGATTGCAATTCTGGAGGTTAATCATGCTGTACTGTAATTTTACTAATGAAGTTTAAAT
TAACAACCACTACTTGTATGATGAATAATTTAGAAATGTTACTAGACTTTTAACTTGTAAAGTGG
TTGTGCTTTTAGAAGAAAAATTTTACCCAGAGTTGCACATGTTTTATGAATTTAGTGCAGCTGTTATG
GCTCACCTCAGAACAAAAGAGAATTGAACCAAATTTGGGAGTTTGGGGTTTTATGTTTTGTTTTCTTTT
CTAAAAAGAGTGAATTGTTCCACACACACACACACACACACACAAACACAAAGGACAGTCA
TACATTTTGATATTTGAGCCATTCTAAAGATTTGGGGTTTTCTAAAATAAAGAACTAGGAACCTTGC
CTGCGACCAATCATGGAGCCACGTGAGCTGATCGTGGCTGCACCTGGGGGGAGGGTAGGGAGGAGGGCA
TGCCACCTAATGATCAAGCCCTATAATTAGCTTCTCATTAGAGCCGTGATGGTGTGTGTGCTGTCTAAA
ATCCAATGTTGTGGGTAGAGAGAATGAGTTTGTGACTAGGAGAGACTAACTTTTGTTCCTTACCCAG
TATAAATATATATATATATATTTAATCTATTTTATTAGAAGTTTTCTGCTCTTTCTTACATAAAAGAA
CCCCAAGCATGCATCTTTCATGTGTGTAATAATTCATTTCTGGGCTAATTTCAAAGAATCCCAATATT
GCTGTATAGAAAGAGAACTAGCTTGCACATTTTAGGTCTGTGAAATTTGTGAGACTTTTCTGCACTGG
ACAGTAAAAAATAATAAAAGACAAAAACAATTTAAAAAATTTAAGCCACAAAAAAGGCACATAG
GGAATATGTCAAATGTGTTTGTCTTAGGCAAAGCTGTGGGAGCTTGAAATGTCACAGTAAAT
AACTTACTTTTTGACAAGTTCTTTTTTCTGTTGGAACACTGAATTTCTGTGCATATGTACATAT
GAATACAAATCGAAGGCCTCTACCTCCTGGAGTTATACAACCTGGCTTGTTTACCTCCACATGCTGATGA
TGACTATTTTTTTTTTTGAGTTCAGTGTGGAGACTTGAACTGAATGTCCCTTCCAACCTTTTATATTA
AAAATAAAAGACAAGAAAATTGAAGATCATTTTTACCTGTACAAGGAATACTAATGGATCGTCTTAA
ATTGGTCTAGGAAAAACCTTGGTGTGTGTTATGGACAATTAAGTTAAAGTTATTGTAAGTTATCTGT
ATTTAGCAGATTTTTCAACTTGAGTGTCTGAGCTGAATTTGAAGACTATTAAGTTATGTTTGA
AGTTTTAACTTCAATGAAGTAATTTTGTGCTGTGAAAGAAACAACATTGAATTAACAACAAGATGGT
GCAATATCTTTGTTTTTTTTATGAGGCTCCTGAGAATCAACCAACTGAAGCATTTCAATCACTTGA
ATGAGAAACGTGTTTAGTATCAAAGAGCCAAGAAGACTGGTGTGAAAGGTACAATCTCAGAGGTTG
GTCAATTACCGTGGCACACTTTCTGGTCACTTTGTACAATGTAGATTTGAAGTACAGTGGTGAACA

ACGCGTAAGCGGCCGCGCATCTAGATTCAAGAAAATGACCG

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_016231.4](#)

Summary:

Serine/threonine-protein kinase that regulates a number of transcription factors with key roles in cell fate determination. Positive effector of the non-canonical Wnt signaling pathway, acting downstream of WNT5A, MAP3K7/TAK1 and HIPK2. Activation of this pathway causes binding to and phosphorylation of the histone methyltransferase SETDB1. The NLK-SETDB1 complex subsequently interacts with PPARG, leading to methylation of PPARG target promoters at histone H3K9 and transcriptional silencing. The resulting loss of PPARG target gene transcription inhibits adipogenesis and promotes osteoblastogenesis in mesenchymal stem cells (MSCs). Negative regulator of the canonical Wnt/beta-catenin signaling pathway. Binds to and phosphorylates TCF7L2/TCF4 and LEF1, promoting the dissociation of the TCF7L2/LEF1/beta-catenin complex from DNA, as well as the ubiquitination and subsequent proteolysis of LEF1. Together these effects inhibit the transcriptional activation of canonical Wnt/beta-catenin target genes. Negative regulator of the Notch signaling pathway. Binds to and phosphorylates NOTCH1, thereby preventing the formation of a transcriptionally active ternary complex of NOTCH1, RBPJ/RBPSUH and MAML1. Negative regulator of the MYB family of transcription factors. Phosphorylation of MYB leads to its subsequent proteolysis while phosphorylation of MYBL1 and MYBL2 inhibits their interaction with the coactivator CREBBP. Other transcription factors may also be inhibited by direct phosphorylation of CREBBP itself. Acts downstream of IL6 and MAP3K7/TAK1 to phosphorylate STAT3, which is in turn required for activation of NLK by MAP3K7/TAK1. Upon IL1B stimulus, cooperates with ATF5 to activate the transactivation activity of C/EBP subfamily members. Phosphorylates ATF5 but also stabilizes ATF5 protein levels in a kinase-independent manner (PubMed:25512613). [UniProtKB/Swiss-Prot Function]

Locus ID:

51701