

Product datasheet for **MC224432**

Lmtk3 (NM_001005511) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lmtk3 (NM_001005511) Mouse Untagged Clone
Tag: Tag Free
Symbol: Lmtk3
Synonyms: aatyk3; BC059845
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224432 representing NM_001005511
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCTGCACCCGGCGCACTCATCTCCTGGCGGCGTCTCCGCCTCCGGCTGCCTGGCGTCCCCAGCGC
ACCCGGATGGATTGCTCTGAGCCGGGCCCTTTGGCTCCGCCCTACGCTGTGGTCTCATTTCCTGTTC
GGGTCTGTGGCCTTCATCTTTCTCCTCTTACCTGTCTGTGTTGCAAACGGGGTATGTTCTGTTCAAG
GAGTTTGAAGACCCGGAAGGGGAGGACTGCTCTGGGGAGTACACCCCCCTGCGGAGGAGACCTCCTCCT
CACAGTCGCTGCCTGATGTCTATATTCTGCCGCTGGCAGAGGTCTCACTGCCAATGCCTGCCCGCAGCC
TCCACACTCAGACATCAGCACCCCTGGGCTGAGCCGCCAGCACCTCAGCTACCTGCAGGAGATTGGC
AGCGGCTGGTTTGGGAAGGTGATCTCGGGGAGGTTTTCTCAGACTACTCGCCAGCCAGGTGGTGGTGA
AGGAACTCCGGGCTAGTCCGGGGCCCTGGAACAGCGCAAGTTCATCTCCGAGGCTCAGCCCTACAGGAG
CCTGCAGCATCCCAACGTCTCCAGTGCCTGGGCGTCTGTGTGGAGACCTTGCCCTTCTGTTGATCATG
GAGTTCTGCCAGCTGGGGACCTGAAGCGATACCTTCGGGCCAGCGCCACCTGAAGGCATGTCCCCTG
AACTTCCCCCTCGAGACTTCGGACACTGCAGAGGATGGGTCTAGAGATTGCCCGAGGACTGGCACACT
GCACTCTCACAACATGTGCACAGCGATCTGGCGCTGCGCAACTGCCTGCTAACTTCAGACCTGACTGTG
CGTATTGGAGACTATGGGCTGGCGCACAGCAACTACAAGGAAGACTACTACCTGACACCCGAGCGCCTAT
GGGTGCCGCTGCGCTGGCAGCGCCGAGCTGCTGGGCGAGCTGCACGGCAGCTTCGTGCTGGTAGATCA
AAGCCGGGAGAGTAATGTCTGGTCCCTGGGGGTGACACTCTGGGAGCTATTTCGAGTTTCGGGGCACAGCCC
TATCGTCACTATCGGATGAGGAGGTCTGGCCTTTGTTGTCCGCCAGCAGCACGTGAAGCTGGCCCGGC
CCAGGCTCAAGCTGCCCTACGCTGACTATTGGTATGACATTTGCAGTCTTGCTGGCGGCCCGCCAGCCCA
GCGCCCTCAGCTTCTGATCTCCAGCTGCAGCTCACTTACCTGCTGTCTGAGCGGCCCCAGGCCCTCT
CCTCCACCACCCCTCCCGAGATGGGCCCTTCCCTGGCCCTGGCCCCCTCGCATAGTGCGCCGCGCC
CAGGGACCCTGTCTCCAGTTCCTCCCTTCTGGATGGCTTCCCCGGGGCTGACCCCTGATGATGACTCAC
AGTCAACGAGAGCAGCCGTGGCCTCAACCTTGAAGTGCCTGTGGGAGAAGGCCCGCTGGGGCAGGCCGG
GGTGGGGTGCACCTCCCTGGCAACCCGCTTCTGCGCCTCTGCGCCCATACCAATCCATCCAATCCCT



TCTATGAGGCGCTGTCCACCCCTAGCGTGCTTCCGGTCATCAGCGCACGCAGTCCCTCGGTGAGCAGCGA
 GACTATATCCGCCTGGAGGAGCACGGTCTCCACCAGAGCCCCTCTCCCAACGACTGGGACCCGCTG
 GACCCAGGAGTACCCGGTCCCAGGCCCCAGACTCCCTCCGAGGTCCCTCAGTGGTGTCCGAGACCT
 GGGCTTCCCCCTCTTCCCCGCGCCCCGACCTTCCCGGCCAGTCTCGGGATCAGGTGGTTTCTGTCT
 GAGCGGTGGGACCCCGAGGGCCGGGGCGCAGGAGAGACCCTGGCAGGAGATCCTGCCGAGGTGCTTGGG
 GAACAGGGTACCGCACCTGGGCCGAAGAGGAGGAAGAGAGCTCCCCAGGCGAGGACACGACGACCTG
 TTGGAGGGGACCCAGCCGACGGGACCCCTCCCTGTCCCTTGTGCAGCCGCGAGGGTCCCTGTCTCTG
 TCTGCCATTGGAGCGGGGGACGCTGTGGCCGGCTGGGGGGACCACCCTGCCCTTGGTTGTCCCCACCCC
 CCAGAGGACGACTCTTCTTGCCTGCAGAGCGGGCTCCTTGGCCGACCTGCCTCTGGTCCCCCTACCT
 CAGCCCCTCTCGAGTTTCTGGACCCCTTATGGGGCCGCGAGCGCCCAGTACCCCGGGCGGGGGCCACC
 TCCCGCTCCCCCTCCACCGCCCCTCCCGGGCTCCGCGGAACCGCCGCGTCCCCGACCCCGG
 TCGGCCCTGGCCAGTCCAGGCTCCGGCTATCGTCTCCGGCCCCAAGCCGGGGACAGCGGCTACGAGA
 CCGAGACCCCTTTTTCCCCGAGGGAGCCTTCCAGGTGGGGGGCGGCCGAGGAGGAAGGGTCCCTCG
 GCCAGGGCTCCCCCGAGCCACCCGACCAGGAGCGCCCGGCCACCCAGACCCGGTCCCTCCCA
 CTCCCAGGGTCCCAGGAGAAGCCAACTTGTAGTTTCCAGGTGAGCACCGAGCAGTGTCTGATGTCCCTAC
 GGGAGGATGTGACAAAGAACCTCCTAGGGGACAAGGGGTGCACACCCGGGAGACAGGACCCAGGAAGGC
 GGGGAGAAGCCCGCAACAGAGAGAAGGGCCAGGCCGAACAGGGACCTGACATCCCTGGTACGACAGG
 AAGAAAGTCCCCAGCAGGAGCCTTCCAGTGAACGGGGTGCAGTGTGGAGAACGGGAAGCCAGGAGTCC
 CGGACATGAAGGAGAAGGTGGCGGAGAATGGCCTGGAATCTCCGAGAAAAGAAGAGAGCCCTGGTGAA
 TGGGGAGCCGATGTCCCAGAGGCCGGGGAGAAGGTGCTGGCGAATGGGGTTCTGATGTCCCAAAGAGC
 GAGGAGAAGGTGGCAGAGAATGGGGTCTGAGGCTGCCAGGAACACGGAGAGGCCACCAGAGATTGGAC
 CTCGGAGAGTCCCAGGGCCCTGGGAGAAGACGCCGAGACTGGGGTCTAGCTCCCGAGACCCTGCTGGA
 TCGAGCCCTGCGCCCTGCGAGGCAGCCTTCCCCAGAACGGCTTGGAGATGGCCCTGGCCAGCTTGGC
 CCAGCCCCAAGAGCGGGAACCCAGACCCCGGGACCGAGTGGAGAGTCCACGAGAGTGGGGGGCACCGA
 GAGCCCCCGGGGCTGGGAAGCTGGACCTCGGGAGTGGGGCCGAGCCCTGGGGGGCGTGGGGACGCCCC
 CGCCGGCGGCCCGCAAGCGCCGTGGACGCAAAGGCCGGATGGGTAGACAACCTCGAGACCACTGCCACCT
 CCGCCACAGCCACTGGGGGCCAACAGAGGAGGCCGGAGCCAGTGCCCTGAAAGCCAGGCCGGAGGTGG
 CCCAAGAGGAAGAGCCAGGGTCCCAGACAACAGGCTCGGCGGAGACATGGCCCCAGCGTAGACGAGGA
 CCCCTCAAGCCGAGAGGAAGGGCCCCGAGATGCCACGCTTGTCTGGACTTGGGACCACCTCAGGGG
 AACAGCGAGCAGATCAAAGCCAACTCTCCGGCTCTCGCTGGCGCTCCCACCGCTCACGCTCACGCCGT
 TCCCGGGCCCGGGCCCGCGGCCGACCTTGGGAGGGCGCGGACGCAGGGGCAGCTGGCGGGGAGGCCGG
 CGGGCGGGGGCCCGGGGCCAGCGGAGGAGCGGGGAGGACGAGGACGAGGACGAGGAGGACGAGGAG
 GCAGCGGGCTCTCGGGATCCCGGGAGGACGCGGGAAGCCCAAGTGCCTCGTGGTGGAGCAGCGCCGACG
 GGGACACGGTCCGCCGCTGCGGGGGTCTCAAGTCTCCACGCGCGGCCGACGAGCCAGAGGACAGCGA
 GCTGGAGAGGAAGCGCAAGATGGTCTCCTTCCACGGGGACGTGACCGTCTACCTTTCGACCAGGAGACT
 CCAACCAACGAGTTGAGCGTCCAGGGCACCCCGAGGGGGACACGGAGCCATCAACTCCCCAGCGCCCC
 CGACGCTCCCCACCCACCCAGGAGATGGGTTTCCCAACAGCGACAGCGGCTTTGGCGGCAGTTT
 CGAGTGGGCGGAGGATTTCCCCCTCTCCCCCGCCAGGCCCCCCCTGTGCTTCTCCGCTTCTCCGTC
 TCACCTGCAGTGGAGACCCCGGGCTCCCGCCGGGCTCCCGACGCCCGGCCGAGCCCCGTGGAGA
 ACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001005511
 Insert Size: 4275 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:	<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.
RefSeq:	<u>NM_001005511.3</u> , <u>NP_001005511.2</u>
RefSeq Size:	4867 bp
RefSeq ORF:	4275 bp
Locus ID:	381983
UniProt ID:	<u>Q5XJV6</u>
Cytogenetics:	7 B3
Gene Summary:	<p>Protein kinase which phosphorylates ESR1 (in vitro) and protects it against proteasomal degradation. May also regulate ESR1 levels indirectly via a PKC-AKT-FOXO3 pathway where it decreases the activity of PKC and the phosphorylation of AKT, thereby increasing binding of transcriptional activator FOXO3 to the ESR1 promoter and increasing ESR1 transcription (By similarity). Involved in endocytic trafficking of N-methyl-D-aspartate receptors (NMDAR) in neurons (PubMed:24760852).[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 protein.</p>