

## Product datasheet for MC229586

### Lmtk3 (NM\_001290990) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lmtk3 (NM_001290990) 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:	>MC229586 representing NM_001290990 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCTGCACCCGGCGCACTCATCTCCTGGCGGCCGTCTCCGCCTCCGGCTGCCTGGCGTCCCCAGCGC  
ACCCGGATGGATTGCTCTGAGCCGGGCCCTTTGGCTCCGCCCTACGCTGTGGTCTCATTTCCTGTTC  
GGGTCTGCTGGCCTTCATCTTTCTCCTCCTTACCTGTCTGTGTTGCAAACGGGGTATGTTCTGTTCAAG  
GAGTTTGAGAACCCGGAAGGGGAGGACTGCTCTGGGGAGTACACCCCCCTGCGGAGGAGACCTCCTCCT  
CACAGTCGCTGCCTGATGTCTATATTCTGCCGCTGGCAGAGGTCTCACTGCCAATGCCTGCCCCGAGCC  
TCCACACTCAGACATCAGCACCCCTGGGCTGAGCCGCCAGCACCTCAGCTACCTGCAGGAGATTGGC  
AGCGGCTGGTTTGGGAAGGTGATCCTCGGGGAGTTTTCTCAGACTACTCGCCAGCCAGGTGGTGGTGA  
AGGAACTCCGGGCTAGTCCGGGCCCTGGAACAGCGCAAGTTCATCTCCGAGGCTCAGCCCTACAGGAG  
CCTGCAGCATCCCAACGTCTCCAGTGCCTGGGCGTCTGTGTGGAGACCTTGCCCTTCTGTTGATCATG  
GAGTTCGCCAGCTGGGGACCTGAAGCGATACCTTCGGGCCAGCGCCACCTGAAGGCATGTCCCCTG  
AACTTCCCCCTCGAGACCTTCGGACACTGCAGAGGATGGGTCTAGAGATTGCCCGAGGACTGGCACACT  
GCACTCTACAACATATGTGCACAGCGATCTGGCGCTGCGCAACTGCCTGCTAACTTCAGACCTGACTGTG  
CGTATTGGAGACTATGGGCTGGCGCACAGCAACTACAAGGAAGACTACTACCTGACACCCGAGCGCCTAT  
GGGTGCCGCTGCCTGGCAGCGCCGAGCTGCTGGGCGAGCTGCACGGCAGCTTCGTGCTGGTAGATCA  
AAGCCGGGAGAGTAATGTCTGGTCCCTGGGGGTGACACTCTGGGAGCTATTTCGAGTTTCGGGGCACAGCCC  
TATCGTACCTATCGGATGAGGAGGTCTGGCCTTTGTTGTCCGCCAGCAGCACGTGAAGCTGGCCCGGC  
CCAGGCTCAAGCTGCCCTACGCTGACTATTGGTATGACATTTGCAGTCTTGCTGGCGGCCGCCAGCCCA  
GCGCCCTCAGCTTCTGATCTCCAGCTGCAGCTCACTTACCTGCTGTCTGAGCGGCCCCAGGCCCTCT  
CCTCCACCACCCCTCCCGAGATGGGCCCTTCCCTGGCCCTGGCCCCCTCGCATAGTGCGCCGCGCC  
CAGGGACCCTGTCTCCAGTTCCTCCCTTCTGGATGGCTTCCCCGGGGCTGACCCTGATGATGACTCAC  
AGTCACCAGAGCAGCCGTGGCCTCAACCTTGAGTGCCTGTGGGAGAAGGCCCGCTGGGGCAGGCCGG  
GGTGGGGTGCACCTCCCTGGCAACCCGCTTCTGCGCCTCTGCGCCCATACCAATCCATCCAATCCCT



TCTATGAGGCGCTGTCCACCCCTAGCGTGCTTCCGGTCATCAGCGCACGCAGTCCCTCGGTGAGCAGCGA  
 GACTATATCCGCCTGGAGGAGCACGGTCTCCACCAGAGCCCCTCTCCCAACGACTGGGACCCGCTG  
 GACCCAGGAGTACCCGGTCCCAGGCCCCAGACTCCCTCCGAGGTCCCTCAGTGGTGTCCGAGACCT  
 GGGCTTCCCCCTCTTCCCCGCGCCCCGACCTTCCCGGCCAGTCTCGGGATCAGGTGGTTTCTGTCT  
 GAGCGGTGGGACCCCGAGGGCCGGGGCGCAGGAGAGACCCTGGCAGGAGATCCTGCCGAGGTGCTTGGG  
 GAACAGGGTACCGCACCTGGGCCGAAGAGGAGGAAGAGAGCTCCCCAGGCGAGGACACGACGACCTG  
 TTGGAGGGGACCCAGCCGACGGGACCCCTCCCTGTCCCTTGTGCAGCCGCGAGGGTCCCTGTCTCTG  
 TCTGCCATTGGAGCGGGGGACGCTGTGGCCGGCTGGGGGGACACCCTGCCCTTGGTTGTCCCCACCCC  
 CCAGAGGACGACTCTTCTTGCCTGCAGAGCGGGCTCCTTGGCCGACCTGCCTCTGGTCCCCCTACCT  
 CAGCCCCTCTCGAGTTTCTGGACCCCTTATGGGGCCGCGAGCGCCCAGTACCCCGGGCGGGGGCCACC  
 TCCCGCTCCCCCTCCACCGCCCCTCCCGGGCTCCGCGGAACCGCCGCGTCCCCGACCCCGG  
 TCGGCCCTGGCCAGTCCAGGCTCCGGCTATCGTCTCCGGCCCCAAGCCGGGGACAGCGGCTACGAGA  
 CCGAGACCCCTTTTTCCCCGAGGGAGCCTTCCAGGTGGGGGGCGGCCGAGGAGGAAGGGTCCCTCG  
 GCCAGGGCTCCCCCGAGCCACCCGACCAGGAGCGCCCGGCCACCCAGACCCGGTCCCCCTCCA  
 CTCCCAGGGTCCCAGGAGAAGCCAACTTGTAGTTTCCAGGTGAGCACCGAGCAGTGTCTGATGTCCCTAC  
 GGGAGGATGTGACAAAGAACCTCCTAGGGGACAAGGGGTGCACACCCGGGAGACAGGACCCAGGAAGGC  
 GGGGAGAAGCCCGCAACAGAGAGAAGGGCCAGGCCGAACAGGGACCTGACATCCCTGGTACGACAGG  
 AAGAAAGTCCCCAGCAGGAGCCTTCCAGTGAACGGGGTGCAGTGTGGAGAACGGGAAGCCAGGAGTCC  
 CGGACATGAAGGAGAAGGTGGCGGAGAATGGCCTGGAATCTCCGAGAAAAGAAGAGAGCCCTGGTGAA  
 TGGGGAGCCGATGTCCCAGAGGCCGGGGAGAAGGTGCTGGCGAATGGGGTTCTGATGTCCCAAGAGC  
 GAGGAGAAGGTGGCAGAGAATGGGGTCTGAGGCTGCCAGGAACACGGAGAGGCCACCAGAGATTGGAC  
 CTCGGAGAGTCCCAGGGCCCTGGGAGAAGACGCCGAGACTGGGGTCTAGCTCCCGAGACCCTGCTGGA  
 TCGAGCCCTGCGCCCTGCGAGGCAGCCTTCCCCAGAACGGCTTGGAGATGGCCCTGGCCAGCTTGGC  
 CCAGCCCCAAGAGCGGGAACCCAGACCCCGGGACCGAGTGGAGAGTCCACGAGAGTGGGGGGCACCGA  
 GAGCCCCCGGGGCTGGGAAGCTGGACCTCGGGAGTGGGGCCGAGCCCTGGGGGGCGTGGGGACGCCCC  
 CGCCGGCGGCCCGCAAGCGCCGTGGACGCAAAGGCCGGATGGGTAGACAACCTCGAGACCACTGCCACCT  
 CCGCCACAGCCACTGGGGGCCAACAGAGGAGGCCGGAGCCAGTGCCCTGAAAGCCAGGCCGGAGGTGG  
 CCCAAGAGGAAGAGCCAGGGTCCCAGACAACAGGCTCGCGGAGACATGGCCCCAGCGTAGACGAGGA  
 CCCCTCAAGCCGAGAGGAAGGGCCCCGAGATGCCACGCTTGTCTGGACTTGGGACCACCTCAGGGG  
 AACAGCGAGCAGATCAAAGCCAACTCTCCGGCTCTCGCTGGCGCTCCCACCGCTCACGCTCACGCCGT  
 TCCCGGGCCCGGGCCCGCGCGGCCACCTTGGGAGGGCGCGGACGCAGGGGCAGCTGGCGGGGAGGCCGG  
 CGGGCGGGGGCCCGGGGCCAGCGGAGGAGCGGGGAGGACGAGGACGAGGACGAGGAGGACGAGGAG  
 GCAGCGGGCTCTCGGGATCCCGGGAGGACGCGGGAAGCCCAAGTGCCTCGTGGTGGAGCAGCGCCGACG  
 GGGACACGGTCCGCCGCTGCGGGGGTCTCAAGTCTCCACGCGCGGCCGACGAGCCAGAGGACAGCGA  
 GCTGGAGAGGAAGCGCAAGATGGTCTCCTTCCACGGGGACGTGACCGTCTACCTTTCGACCAGGAGACT  
 CCAACCAACGAGTTGAGCGTCCAGGGCACCCCGAGGGGGACACGGAGCCATCAACTCCCCAGCGCCCC  
 CGACGCTCCCCACCCACCCAGGAGATGGGTTTCCCAACAGCGACAGCGGCTTGGCGGCAGTTT  
 CGAGTGGGCGGAGGATTTCCCCCTCTCCCCCGCCAGGCCCCCCCTGTGCTTCTCCGCTTCTCCGTC  
 TCACCTGCAGTGGAGACCCCGGGCTCCCGCCGGGCTCCCGACGCCCGGCCGAGCCCCGTGGAGA  
 ACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_001290990  
 Insert Size: 4275 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u>NM_001290990.1</u> , <u>NP_001277919.1</u>
<b>RefSeq Size:</b>	5022 bp
<b>RefSeq ORF:</b>	4275 bp
<b>Locus ID:</b>	381983
<b>UniProt ID:</b>	<u>Q5XJV6</u>
<b>Cytogenetics:</b>	7 B3
<b>Gene Summary:</b>	<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 (1) represents the longest transcript. Variants 1 and 2 both encode the same protein.</p>