

Product datasheet for MR211980

Lmtk3 (NM_001005511) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lmtk3 (NM_001005511) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Lmtk3
Synonyms: aatyk3; BC059845
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR211980 representing NM_001005511
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCTGCACCCGGCGCACTCATCCTCCTGGCGGCCGTCTCCGCCTCCGGCTGCCTGGCGTCCCCAGCGC
 ACCCGGATGGATTCGCTCTGAGCCGGGCCCTTTGGCTCCGCCCTACGCTGTGGTCTCATTTCTGTTC
 GGGTCTGTGGCCTTCATCTTTCTCCTCTACCTGTCTGTGTTGCAAACGGGGTATGTTCTGTTCAAG
 GAGTTTGAGAACCCGGAAGGGGAGGACTGCTCTGGGAGTACACCCCTCGCGAGGAGACCTCCTCCT
 CACAGTCGCTGCCTGATGTCTATATTCTGCCGCTGGCAGAGGTCTCACTGCCAATGCCTGCCCGCAGCC
 TCCACACTCAGACATCAGCACCCCTGGGCTGAGCCGCCAGCACCTCAGCTACCTGCAGGAGATTGGC
 AGCGGCTGGTTTGGGAAGGTGATCCTCGGGGAGTTTTCTCAGACTACTCGCCAGCCAGGTGGTGGTGA
 AGGAACTCCGGGCTAGTCCCGGCCCTGGAACAGCGCAAGTTTCTCCGAGGCTCAGCCCTACAGGAG
 CCTGCAGCATCCAACGTCCTCCAGTGCCTGGGCGTCTGTGTGGAGACCTTGCCCTTCTGTTGATCATG
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 CGTATTGGAGACTATGGGCTGGCGCACAGCAACTACAAGGAAGACTACTACCTGACCCGAGCGCCTAT
 GGGTCCCGCTGCGCTGGGACGCGCCGAGCTGCTGGGCGAGCTGCACGGCAGCTTCGTGCTGGTAGATCA
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 GCGCCCTCAGCTTCTGATCTCCAGCTGCAGCTCACTTACCTGCTGTCTGAGCGGCCCCAGGCCCT
 CCTCCACCACCCCTCCCGAGATGGGCCCTTCCCTGGCCCTGGCCCCCTCGCATAGTGCAGCGCCG
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 AGTACCAGAGAGCAGCCGTGGCCTCAACCTTGTGCTGTGGGAGAAGGCCCGCTGGGCGAGCCGG



GGTGGGGGTGCACCTCCCTGGCAACCCGCTTCTGCGCCTCCTGCGCCCATACCAATCCATCCAATCCCT
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GTACTATATCCGCCTGGAGGAGCACGGTTCTCCACCAGAGCCCCTCTCCCAACGACTGGGACCCGCTG
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CGAGCCCTCCCCACCCACCACCCAGGAGATGGGTTTCCAACAGCGACAGCGGCTTTGGCGGCAGTTT
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TCACTGCACTGGAGACCCGGGGCTCCCGCCGGGCTCCCGACGCCCGGCCGAGCCCCGTGGAGA
AC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211980 representing NM_001005511
 Red=Cloning site Green=Tags(s)

MPAPGALILLA AVSASGCLASPAHPDGFALSRAPLAPPYAVVLI SC SGLLAFIFLLL TCLCKRGDVRFK
 EFENPEGEDCSGEYTPPAEETSSSQSLPDVYILPLAEVSLPMPAPQPPHSDISTPLGLSRQHL SYLQEI G
 SGWFGKILGEVFS DYSPAQVVVKELRASAGPLEQRKFI SEAQPYRSLQHPNVLQCLGVCVETLPFLLIM
 EFCQLGDLKRYLRAQRPPPEGMSPELPPRDLRTLQRMGLEIARGLAHLHSHNYVHSDLALRNCLL TSDLT V
 RIGDYGLAHSNYKEDYILT PERLWVPLRWAPELLGELHGSFVLVDQSRESNVWSLGVTLWELFEFGAQP
 YRHL SDEVLAFVVRQQHVKLARPRKLKPYADYWDILQSCWRPPAQRPSASDLQLQLTYLLSERPPRP
 P P P P P R D G P F P W P P P S H S A P R P G T L S S Q F P L L D G F P G A D P D D V L T V T E S S R G L N L E C L W E K A R R G A G R
 G G G A P P W Q P A S A P P A P H T N P S N P F Y E A L S T P S V L P V I S A R S P S V S S E Y Y I R L E E H G S P P E P L F P N D W D P L
 D P G V P G P Q A P Q T P S E V P Q L V S E T W A S P L F P A P R P F P A Q S S G S G G F L L S G W D P E G R G A G E T L A G D P A E V L G
 E Q G T A P W A E E E E E S S P G E D S S S L G G G P S R R G P L P C P L C S R E G P C S C L P L E R G D A V A G W G D H P A L G C P H P
 P E D D S S L R A E R G S L A D L P L V P P T S A P L E F L D P L M G A A A P Q Y P G R G P P P A P P P P P P P R A S A E P A A S P D P P
 S A L A S P G S G L S S P G P K P G D S G Y E T E T P F S P E G A F P G G G A E E E G V P R P R A P P E P P D P G A P R P P P D P G P L P
 L P G S Q E K P T F V V Q V S T E Q L L M S L R E D V T K N L L G D K G S T P G E T G P R K A G R S P A N R E K G P G P N R D L T S L V S R
 K K V P S R S L P V N G V T V L E N G K P G V P D M K E K V A E N G L E S P E K E E R A L V N G E P M S P E A G E K V L A N G V L M S P K S
 E E K V A E N G V L R L P R N T E R P P E I G P R R V P G P W E K T P E T G L A P E T L L D R A P A P C E A A L P Q N G L E M A P Q L G
 P A P K S G N P D P G T E W R V H E S G G A P R A P G A G K L D L G S G G R A L G G V G T A P A G G P A S A V D A K A G W D N S R L P P
 P P Q L G A Q R R P E P V P L K A R P E V A Q E E E P G V P D N R L G G D M A P S V D E D P L K P E R K G P E M P R L F D L G P P Q G
 N S E Q I K A K L S R L S L A L P P L T L T P F P G P G P R R P P W E G A D A G A A G G E A G G A G A P G P A E E D G E D E D E E D E E
 A A G S R D P G R T R E A P V P V V S S A D G D T V R P L R G L L K S P R A A D E P E D S E L E R K R K M V S F H G D V T V Y L F D Q E T
 P T N E L S V Q G T P E G D T E P S T P P A P T P P H P T T P G D G F P N S D S G F G G S F E W A E D F P L L P P P G P P L C F S R F S V
 S P A L E T P G P P A R A P D A R P A G P V E N

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

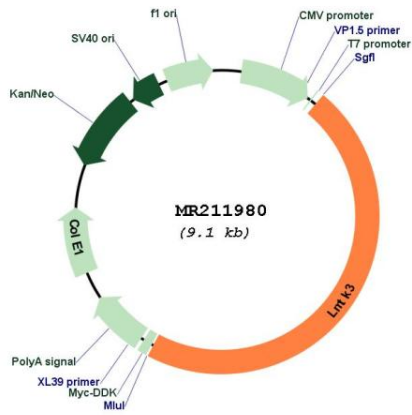


ACCN: NM_001005511

ORF Size: 4272 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001005511.4
RefSeq Size:	4867 bp
RefSeq ORF:	4275 bp
Locus ID:	381983
UniProt ID:	Q5XJV6
Cytogenetics:	7 B3
MW:	150.9 kDa
Gene Summary:	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]

Product images:



Circular map for MR211980