

## Product datasheet for **RN213214**

### Lmtk2 (NM\_001137641) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lmtk2 (NM\_001137641) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Lmtk2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN213214 representing NM\_001137641  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGGGACCACCGGCATCATCGCCGCTGCCGATGCCGCTGCTGCTCTCTGCTCTTGACCGTCGGCA  
GTGCCCGGGCCGCCACTTCCGCAAACAGGTGCAGGGGACGCACCTGTTGTAGAAGTCCCTCCTTGTT  
TGTGATCCTGTCCGTGTGCAGTTAATGGTACTGATAGTGTAAATGCAAAGTGTGTTCTGCTGTAAG  
GACCCAGAAATAGACTTTAAGGAATTTGAAGATAATTTTGATGATGAGATAGACTTCACACCACAGCAG  
AAGACACCCCTCTGTCCAGTCCCAGCAGAGGTCTTCACACTCTCAGTGCCAAACATTTCACTTCCAGC  
CCCATCCAGTCCAGTCTTCTGTGGAAGTGTGAAAGTCTCAGGTCGCTCGCCACAGTCTAAACTATATA  
CAGGAGATTGGGAATGGCTGGTTTGGGAAGGTGCTCCTGGGAGAGACTTACACAGGCACCAGCGTCACAA  
GAGTCATAGTGAAGGAGTAAAAGTCAAGGAGTGAAGGAGTGAAGTCAAGGAGTGAAGTCAAGGAGTGA  
GCCTTACTACATCTTCCAGCATCCGAATGTTCTTCAAGTGTGTCGGGAGTGGGAGGAGGAGGAGGAGG  
CTTCTGGTGTGTTGAGTTCTGCGACCTGGGTGACCTGAAGGCTTACCTGCACAATGAACAAGAGCAGTGC  
GCAGCGAGTACAGACCATGCTGCTGCAGAGGATGGCGTGCAGAGATTGCCGAGGCTGGCAGCCATGCA  
CAAGCTGCACTTCTGCACAGTATCTGCCCTACGGAAGTGTATCTCACCTCCGACCTAAACGTCAAA  
GTGGGTGACTATGGGATAGGCTTCCAGCAGATACAAGGAGGATTACATAGAGACGGATGACAAAAAATTT  
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TAAGTACAGTAACATCTGGTATGAAGTGTGCAAGTCTGCTGGCTGTCCCTGACAAGAGGCCGGCTGCA  
GAGGACGTGCACCGCTGCTCACCTACCTGCGGATGCAGAGCCAGCGGGACTCGGAGGTGGACTTCAAGC  
AGCAGTGGACTGCTCTCAAGCCTAACGCCAACAGCAGGGACCCCTCAAGCAGTGTGCTTCCCCATCCT  
TGACCACCTTTGCCCGGGACCGGCTAGGTGCGGAGATGGAGGAGTCCCTCACAGTACTGAGACCAGCCAG  
CAGACGAAGCCTTGCTTATTCCAGTATGTTCTTCCCTGTTGAAGTGTGAGAATTCACTGTCAAGCC  
TGCCCTGGCAAGCAAGACGGCAGTGGCCAGGAGGGGCCCTGAGGGCTCCTGGGTGGTTCTGTGTTT  
GATGCACACAACCTCTCTGTTGGAAGTACTACTACATCCAGTTGGAAGAGAAGAGCAGTACAGTCTGG  
GGCTGGAGTATCCGCTGCACTGCTCACAAGTGAAGTGAATAATCCAGAAAAGGGTGAAGTACTGACGCACC  
CCATCTCAGGCCTTTAAGACTCTGTGCTGAGGAACCCAGTGCAGAGGAGGATTTCTTCCAGAGCAGT



GCTCGCCCCAAAGAAGCCAACCTCTGCGGAGGACTCACATGCTGCCAGCATCCCTGGGAGCCCTTCAACA  
TATTCACTGACCTTGACAAAGCAGACGACCTGCCAGTACCAGAAAATATTTGATCTAATGGAATAAA  
TGGAGTTCAAGCTGACTTTAAGCCAGCCATCTTGAGTCCAAGCCTGGATGGCCCCAAAGACACCTGCCAG  
TCTGAAAGAGAAAAGCCCCATGACCAGGACCCTCTGTGCTCCCAGAAAAGTCTGTGACCAAGATTGCT  
TTGATCCACTGAGTGTCCAAGAATTGTCAGAGAACTTCTATTTCTTTCAGGAAAAGAAATCTGCTGAAAGG  
CTCGTTGCTGGCAAGGGGCGGGTGAACGATCTCAGACAGAACTTAAGGACGCAGGTTTTATCTCTGAA  
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CCTCATCACAGGAGAACATGAGTGGGCAGAAACAAAGGCACAGGTGGCACACCTCAGGGTGGCACCCTCAC  
ACAGGCCTCCCCGCTCACAGAAGGATCTCCTAATGGTCTCCGGACTCAGTTCTGAAGTCAAGGAGAAACC  
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GCCAGTTGAAATTCCTGCTGCCGATGCCAAAGCCCCGATGGGGCGATGGGCCCCAGAAGTCACTTG  
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GTGGCAGCATACTGGAGAAAACTCAGAAGCCGTGGAGACTTTAAATCAGCTTAATTATAAGGCTGCCCC  
AAAGGACGCGGCTTGGCATCTGCCCTCCTCAGACTCCACCAGCAAGATAGCCTCCTGGAAGACAGT  
TTGTCAACGCCCATCCCCACCTCAGAGCAGTCTGTGGAGACGCCAGACTCCCTGGACTCAGTGGATGTC  
ATGCAGCATTACTAGAGTCCCTAGGCTCCACACCCCTCAGAACTCTTGCCCCCTGATAAGCCCGCAGA  
CAGTGGCTATGAAACAGAGAACCTGGAGTCCCCGAGTGGACCCTGCACCCTGCACCTGAGGGCACTGCG  
GACTCAGACACAGCTGCAGCAGGTGATAGCAGCCACAGCAGTTTGCCTCCCAACCCGGTCATCGTCATCT  
CAGATGCAGGAGATGGCCACAGGGGTGCTGAAGTCCCCCTCAGAGCTTCTCACTTGGCACCAGAGTTC  
ATATCGAGACTCTGCGTACTTCTCAGACAATGACTCAGAGCCAGATAAAAAGCCTGAGGAGGCCCCAGGA  
ACATCCGCCAGTCCCCTGGTATTGGTAAAGGACCAGTCCCACCTGAGCCAGTTGCTCCAGAAGACAGCC  
CTGATGATGTCAGAGAAGGCTGCTGGAAGCCTCACAGAGCAAGCCAGAGCAAAAGTCCGGGCTCTGCTTT  
GCAGAATTCTTGTCACTCAGAATTGCAAGAGACGTTGCAGCCACACCAGCTGATCAGAGTCCGGGCTCT  
GCTTTCAGAAATCTTGTCACTCAGAATTGCAAGAGACGTTGCAGCCACACCAGCTGATCAGAGTCCGG  
CGTCTGCTTTCAGAAATCTTGTCACTCAGAATTGCAAGAGACGTTGCAGCCACACCAGCTGATCAGAG  
TCCGGGCTCTGCTTTCAGAAATCTTGTCACTCAGAATTGCAAGAGACGTTGCAGCCACACCAGCTGAT  
CAGAGTCCGGGCTCTGCTTTCAGAAATCTTGTCACTCAGAATTGCAAGAGACGTTGCAGCCACACCAG  
CCGGTCTTCCAGAGAGACGTACCCTGTGGACGATGAGGCCCGCGGCCCTTGGGTTTGTGAATTCAGA  
ATTTAGCAGCTGCGATGACCTGGAGACACAGGAAGATCGCCCATGCACCCTGGCCTCCACAGGCACCAAC  
ACCAATGAGCTCCTTGCATACACAGGCTCCACACTGGATAAGTCTTGGCCAGCCACTTTGAGGGCCCCA  
AGCTGAAGGAGCCAGACATTGAAGGGAAATACCTGGGCAAACGTGTGTGTCTGGGATGCTGGACCTCTC  
GGAGGATGGGATGGATGCAGATGAAGAAGATGAGAACAGTGACGACTCGGACGAGGACCTGCGGGCCTTC  
AACTTGCACAGCCTAAGCTCGGAGTCTGAAGATGACATGGAGCACCCCTGTGCCATCATTGTGAGTAATG  
ATGATGGCAGGCACCTGCGGAGTTTGTGAAACCTCGGCTGCCGCGGCCATTGAGCAGCTGCCAGATGA  
CTGGAAGAAGGAAAAGAAGGCGGTGACATTTTTTATGATGATGTACCCTTTATCTTTTACCAGGAAACC  
CCCACCAAGAGCTGGGGCACTGCGGAGGGGAAGCACATGGCCCTGGGCCAGCAGCCCGGCAGCATCCA  
CAGGGTCAACCTACCTAAGCAGGTGCATGAATTCGAGAGCTCCACGGATGAAGAAGCGGAGGCTTCGA  
ATGGGACGATGACTTCTCCAGATCCTTTCATGTCAAAAACAACAAGCCTTCTGGGTTCCAAGCCTTCT  
CTTCAAACCTTCAAATACTTTTCTCCTCCGCGGCCAGGAGCTCAGAGCAGAGCTGGCCACAGGTGT  
CCCCCTGCTCCCGTTCTCCATCTCCTGCCAACATTGCCAGCTTCTCCCTCACACACCTCACGGACTC  
AGACATTGAACAAGGAGGACGAGTGAAGATGGAGACAAGGACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
ACCN: NM\_001137641  
Insert Size: 4596 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [NM\\_001137641.1](#), [NP\\_001131113.1](#)

**RefSeq Size:** 8223 bp

**RefSeq ORF:** 4596 bp

**Locus ID:** 304286

**Cytogenetics:** 12p11