

Product datasheet for **RR200647**

Ltk (NM_001107763) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ltk (NM_001107763) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ltk
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200647 representing NM_001107763
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

CTGGAGACCCGCGCGCGCGCAGGGCAGCGGCAGGAGAGAGGGCGCGCGCGGTGATACTTCTGAGT
 CTGACCTCCTCTGGGCTGATGGGAAGATGGCATATCCTTCGTCCACCCTAGTGGCGAGCTTTACCTACA
 ACCTCTGGCAGTCACAGAGGGCGATGTTGAGGTGGAGATCCGAAGGCACCCCAATTGCAGTCACTGCTCT
 TTCAAAGACTGCCAGTGGCAGGCAGAGCTCTGGAGGGTGAATGCATATGCCAGAGGGCATGGAGCTAG
 CTGTGGATAATATCACATGCACGGGCTGCCAACCACCACAAGCCCTCTGATAATGATGGGAGCTTTGT
 GACAGCCTTGACGCTGAGTCTCCTTATGATGTGTGGAGTCTAATTCTAGTGAACCAGAAGAAATGCAG
 AGCCTGCGGGGAACCAGGCTGCCAGGCCCTGAGCTTGGCTGAGTAAGCTGAGAACCCTGCCATCAGGA
 CAGCACCAACCCATATTACTGTCAGGTGGGCTCAGCCCTGCCAGGCCCTGGCCTCTGCCCAAGGGCT
 CACTGAGGTTTCCCAGCCAATGTCACCTACTCAGAGCCCTGGCCATGGTGCCTTTGGGGAAGTGAT
 GAGGGACTAGTGATTGGTCTTCTGGGGATTCCAGCCCTTCCGGTGGCTATCAAGACTCTGCCGAGC
 TCTGCTCCCTCAGGATGAGCTGGACTTCTCATGGAGGCTCTCATCAGCAAGTTCAGCCATCAGAA
 TATTGTACGCTGTGTGGGCTCAGCTTCCAGGCTGCCCTCGCCTCATTCTGCTGGAGCTGATGTCTGGT
 GGGGACATGAAGAGCTTCTGAGGCATAGCAGACCACCCGGGACAACCTGTACCTCTGACCATGCAGG
 ACCTATTACAGTTGGCCAGGATATAGCTCAGGGCTGCCACTACTGGAGGAAAATCACTTTATCCACAG
 AGCATTGCCGCCGAACTGTCTGCTTAGCTGCAGTGGAGACAGCCGAGTGGCCAAGATTGGAGACTTT
 GGAATGGCAAGAGATATCTACCAGGCCAGTTATTATCGCAAAGGGGGCCGACCTTGCTCCAGTGAAGT
 GGATGCCCCAGAAGCTCTCCTGGAGGGCTTTTACATCCAAGACGGACTCCTGGTCTTTTGGGCTCCT
 GCTCTGGGAGATCTTCTACTAGGTTATATGCCCTACCCTGGACACACCAACCAGGAGGTTCTAGACTTC
 ATTGCCACAGGGAACAGGATGGACCCTCTAGGAAGTGTCTGGGCCAGTGTACCGAATCATGACCCAGT
 GCTGGCAGCTTCAACCTGAGCTCCGCCCTGACTTTGCCAGCATCTGGAGCGCATTCAATACTGCATTCA
 GGACCCTGATGTGCTGAACTCGCCCTTGCCATGGAACCAGGGCCATTGTGGAGGAGGAAGGGGCTCT
 GGGCCGGGGAACAGGTCAGTGAAGGTCTTAGATCCCCAAGACCCTGGAAGTGGTCCAGAACTTGA
 AAAGCCGGGAGGAGACCTTCTGGCTCTCAGCTGCCCTCTGGCCTCAAGACCCTCACATCCAGATGCC
 TCAACCTCAGAACATTTGAACCCACCTATGGCTCCTGGACCCCAAGGAGCCCCAGGGTGAAGATTCA
 GACATTGACCTTAGCAATGGCCCTCTCGGATCCTTTCCAGGGCAGCAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200647 representing NM_001107763
 Red=Cloning site Green=Tags(s)

LETAAAQGSRRGGAAGGDTSESDLLWADGEDGISFVHPSGELYLQPLAVTEGDVEVEIRRHPNCSHCS
 FKDCQWQAELEWRAEICPEGMELAVDNICTGLPTTTSPLIMMGAVVTALTL SLLMMCGVLILVNQKCCQ
 SLRGRTRLPPELELSKLRTSAIRTAPNPYYCQVGLSPAQAWPLPQGLTEVSPANVTLLRALGHGAFGEVY
 EGLVIGLPGDSSPLPVAIKTLPELCSQDELDFLMEALII SKFSHQNIVRCVGLSFQAAPRILILEMSG
 GDMKSFRLRHSRPHGQLSPLTMQDLLQLAQDIAQGCHYLEENHF IHRDIAARNCLLSCSGDSRVAKIGDF
 GMARDIYQASYRKGGRLLPVKWPPEALLEGLFTSKTDSWSFVLLWEIFSLGYMPYPGHTNQEVLDF
 IATGNRMDPPRNCPPVYRIMTQCWQLQPELRPDFASILERIQYCIQDPDVLNSPLMPGPIVEEEEGAS
 GPGNRSLEGLRSPKLELSSQNLKSRGGDLLGSQPLSGLKLTLSRCLQPQNIWNPTYGSWTRSPQGEDS
 DIDLSNGPSSDSFPGEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

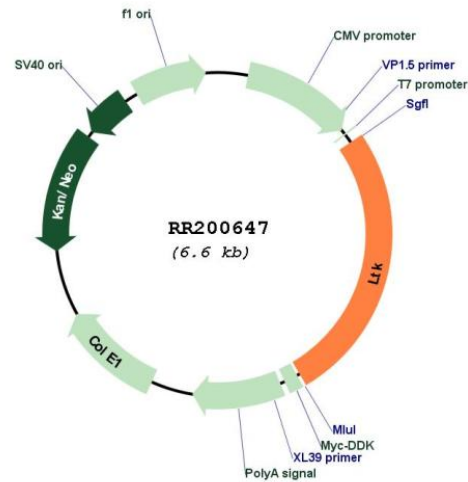
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_001107763

ORF Size:	1731 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_001107763.2 , NP_001101233.2
RefSeq Size:	2252 bp
RefSeq ORF:	1734 bp
Locus ID:	311337
Cytogenetics:	3q35
MW:	63 kDa
Gene Summary:	<p>The protein encoded by this gene is a member of the ros/insulin receptor family of tyrosine kinases. Tyrosine-specific phosphorylation of proteins is a key to the control of diverse pathways leading to cell growth and differentiation. The mRNA for this gene initiates translation from a non-AUG (CUG) start codon. [provided by RefSeq, Jul 2008]</p>