

## Product datasheet for **RC234723**

### LATS1 (NM\_001270519) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LATS1 (NM_001270519) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LATS1
Synonyms:	WARTS; wts
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234723 representing NM\_001270519  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

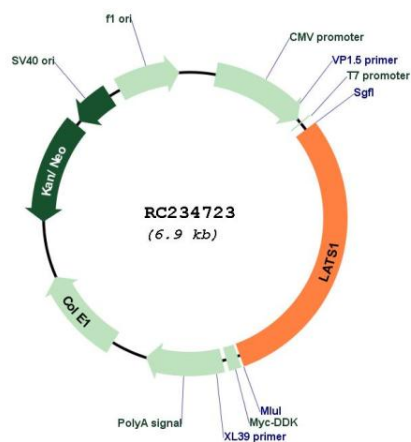
ATGAAGAGGAGTAAAAAGCCAGAAGGATATAGACAAATGAGGCCTAAGACCTTCTGCCAGTAACTATA  
 CTGTCAGTAGCCGGCAAATGTTACAAGAAATTCGGGAATCCCTTAGGAATTTATCTAAACCATCTGATGC  
 TGCTAAGGCTGAGCATAACATGAGTAAATGTCAACCGAAGATCCTCGACAAGTCAGAAATCCACCCAAA  
 TTTGGGACGCATCATAAAGCCTTGCAGGAAATTCGAAACTCTCTGCTTCCATTTGCAAATGAAACAAATT  
 CTTCTCGGAGTACTTCAGAAGTTAATCCACAAATGCTTCAAGACTTGCAAGCTGCTGGATTTGATGAGGA  
 TATGGTTATAACAAGCTTTCAGAAAATAACAACAGAAGTATAGAAGCAGCAATTGAATTCATTAGTAAA  
 ATGAGTTACCAAGATCCTCGACGAGAGCAGATGGCTGCAGCAGCTGCCAGACCTATTAATGCCAGCATGA  
 AACCGGGAATGTGCAGCAATCAGTTAACCGCAAACAGAGCTGAAAGGTTCTAAAGAATCCTTAGTTCC  
 TCAGAGGCATGGCCCGCCACTAGGAGAAAGTGTGGCCTATCATTCTGAGAGTCCCAACTCACAGACAGAT  
 GTAGGAAGACCTTTGCTGGATCTGGTATATCAGCATTGTTCAAGCTCACCTAGCAACGGACAGAGAG  
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 CTCTCAACACTTCCCCATGAATCTCCTAATCAAGGACAGAGAGGCATTAGTTCTGTTCTGTTGGCAG  
 ACAACCAATCATCATGCAGAGTTCTAGCAAATTAACCTTCCATCAGGGAGACCTGGAATGCAGAATGGT  
 ACTGGACAAACTGATTTTCATGATACACCAAAATGTTGTCCTGCTGGCACTGTGAATCGGCAGCCACCAC  
 CTCCATATCCTCTGACAGCAGCTAATGGACAAAGCCCTTCTGCTTACAACAGGGGGATCTGCTGCTCC  
 TTCGTCATATACAAATGGAAGTATTCTCAGTCTATGATGGTGCCAAACAGAAATAGTCATAACATGGAA  
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 CCCCAGCAGTGGGCATGAAATCCCTACATGGCAACCTAACATACCAGTGAGGTCAAATCTTTTAAATAA  
 CCCATTAGGAAATAGAGCAAGTCACTCTGCTAATTCTCAGCCTTCTGCTACAACAGTCACTGCAATTACA  
 CCAGCTCCTATTCAACAGCCTGTGAAAAGTATGCGTGTATTAACCAGAGCTACAGACTGCTTTAGCAC  
 CTACACACCCTTCTGGATACCACAGCCAATTCAAACTGTTCAACCCAGTCTTTTCTGAGGGAACCGC  
 TTCAAATGTGACTGTGATGCCACCTGTTGCTGAAGCTCCAAACTATCAAGGACCACCACCACCTACCCA  
 AAACATCTGCTGCACAAAACCCATCTGTTCTCCATACGAGTCAATCAGTAAGCCTAGCAAAGAGGATC  
 AGCCAAGCTTGCCAAGGAAGATGAGAGTGAAAAGAGTTATGAAAATGTTGATAGTGGGGATAAAGAAAA  
 GAAACAGATTACAACCTCACCTATTACTGTTAGGAAAAACAAGAAAGATGAAGAGCGAAGGGAATCTCGT  
 ATTCAAAGTTATTCTCCTCAAGCATTAAATCTTTATGGAGCAACATGTAGAAAATGTAATCAATCTC  
 ATCAGCAGCGTCTACATCGTAAAAACAATTAGAGAATGAAATGATGCGGGTAAACCTTTTAAATGTC  
 CATTTTATACTTAATCATCTGTTTGCTTGGTGTATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



<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>	<a href="#">NM_001270519.1</a> , <a href="#">NP_001257448.1</a>
<b>RefSeq Size:</b>	2743 bp
<b>RefSeq ORF:</b>	2073 bp
<b>Locus ID:</b>	9113
<b>UniProt ID:</b>	<a href="#">O95835</a>
<b>Cytogenetics:</b>	6q25.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>MW:</b>	76.6 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a putative serine/threonine kinase that localizes to the mitotic apparatus and complexes with cell cycle controller CDC2 kinase in early mitosis. The protein is phosphorylated in a cell-cycle dependent manner, with late prophase phosphorylation remaining through metaphase. The N-terminal region of the protein binds CDC2 to form a complex showing reduced H1 histone kinase activity, indicating a role as a negative regulator of CDC2/cyclin A. In addition, the C-terminal kinase domain binds to its own N-terminal region, suggesting potential negative regulation through interference with complex formation via intramolecular binding. Biochemical and genetic data suggest a role as a tumor suppressor. This is supported by studies in knockout mice showing development of soft-tissue sarcomas, ovarian stromal cell tumors and a high sensitivity to carcinogenic treatments. [provided by RefSeq, Apr 2017]</p>

Product images:



Circular map for RC234723