

## Product datasheet for **SC120535**

### LATS2 (NM\_014572) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LATS2 (NM_014572) Human Untagged Clone
Tag:	Tag Free
Symbol:	LATS2
Synonyms:	KPM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120535 sequence for NM_014572 edited (data generated by NextGen Sequencing)

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ATGAGGCCAAAGACTTTTCTGCCAGACTTATTCTGAAATAGCCGGCAGCGACTGCAA
GAGATTTCGTGAGGGGTTAAAACAGCCATCCAAGTCTTCGGTTTCAGGGGCTACCCGCAGGA
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CAGCAGCAGATGAGAGCCACCCCAAAGTTCGGACCTTATCAGAAAGCCTTGAGGGAAATC
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CGGCAAATGCTGCAGGAAGTGGTGAACGCAGGATGCGACCAGGAGATGGCTGGCCGAGCT
CTCAAGCAGACTGGCAGCAGGAGCATCGAGGCCGCCCTGGAGTACATCAGCAAGATGGGC
TACCTGGACCCGAGGAATGAGCAGATTGTGCGGGTCATTAAGCAGACCTCCCAGGAAAG
GGGCTCATGCCAACCCAGTGACGCGGAGGCCAGCTTCGAAGGAACCGGCGATTTCGTTT
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GCAGCAGGGGCACACTTCCCCTGCAGGGCGCGCACTACGGGCGGCCGCACTGCTGGTG
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CCGCTGGACGTGGAGTACGGAGGCCAGACCGGAGGTGCCCGCCTCCGCCCTACCCGAAG
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GACATCCGGAAGCAGCCAGCCCCCTACGTTCCACCATCAGCCACCCATGGACACCTCG
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GCCTGGGACACACTCACCTCGCCCAATAACAAGCATCCTGAGCACGATTTTACGAATTC
ACCTTCCGAAGGTTCTTTGATGACAATGGCTACCCCTTTCGATGCCCAAAGCCTTCAGGA
GCAGAAGCTTACAGGCTGAGAGCTCAGATTTAGAAAGCTCTGATCTGGTGGATCAGACT
GAAGGCTGCCAGCCTGTGACGTAG
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Clone variation with respect to NM\_014572.2

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_014572 unedited
GGGGGCCGGGGGANNNTACCTACCCACAAAAAGGGTTTTCCCCGCCGTTGCCGCATT
GGGCGGTAGGCGGTACGGTGGNAGGTCTATATAAGCAGAGCTCATTTAGGTGACACTA
TAGAATAACAAGCTACTTGTCTTTTTGCAGCGCCGCGAATTCGGCACGAGGGGAAGATG
GAGCAGTCGCCGTCCACGCCACCCGCCCGCCGGGGCTCCCCCTCCCTGCGGGGCCAG
CAGCAGCTCCAGCCACCAAGTGCCTGGTCTCCCGCGCGAGAGGCCGGGAGCCCGCCGCC
AGGACGCCCCGAGGGTGTAGACCGCGCCCTGGAGAGAGTGATAATCTTCAAAATGAAG
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TTTAAATAATAAAACACTTTAAGAAGATTGATTTATGGTAAAAGGAACTGGACTAACA
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GAGATTCGTGAGGGTTAAAGCAGCCATCCAAGTCTTCGGTTCAGGGGCTACCCGAGGA
CCAAACAGTGACACTTCCCTGGATGCCAAAGCTCTGNGGAGCAAAGATGCCACCAGGCA
GCAGCAGCAGATGAGAGCCACCCCAAAGTTCGGACCTTATCAGATAGCCTTGAGGGAAAT
CAGATATTCCCTTGTGCTTTTGTACTAACAATCGGGACCTCTGCAGCTGCAGAAGTGA
ACCCGCCAATGCTGCAGGAACTGGTGAACGCAGGATGCCGACACGAGATGCCTGCCCGAA
CTTTAAGCCGACTGGCAGCAGGAGCATCGAGCCCGCCTTGAAGTACAT
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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_014572 unedited            NNNNGAATACTGTGNTACCGCGGCCGCTATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTT            TTACATTATTGCACAGAGATTTCTCATCAATGTTCTTCAGTTTTTATGCTTTTTCCCTAAA            TGTGAATAAGTGCTATGGATAAAATACAAATGTAGAAAATAACAGCAGCATGATTTGTCA            AAGTTAATCCCTATAATTTAGTAAGAAAAATGGATATAAACAAAATAAGTGCTCTTTCT            AAAGTACTAAATTTTCAAAAATATTGTTTTAATGCAGTGAAGGCTCTGAAAAGCCTAT            TGAAAGCGATGCTGAGTCTGTTTTCAAAAGTGTCTGTTGGGTTTTCTTGGTGAAGAG            CAGAATTTCAAGTGAAGTAATCGACGACTAATTTAAAACAAAACAGCCCTCGGCTTCCC            TATTGGCCTGTGAGGGCACCGGCTCCGGGACCCTGACCTGGGAGGCAGCGAGTGGTGGGG            GTGCCTGGCCCCATCTACACGTACACAGGCTGGCAGCCTTCAGTCTGATCCACCAGATC            AGAGCTTTCTAAATCTGAGCTCTCAGCCTGTGAAGCTTCTGCTCCTGAAGGCTTTGGGCA            TCGAAAGGGGTAGCCATTGTCATCAAAGAACCTTCGGAAGGTGAATTCGTAATAATGCGTG            CTCAGGATGCTTGTATTGGGCGAGGTGAGTGTGTCCAGGCCTTGGTGTACCTTCGCT            GGCATCGTTCCAAGGGCTTCTTCATCTACGGGGTCGAAATTCGAGGTGCCATGGGGTG            GCTGATGGTGGGAACGTANGGNGCTGGCTGCTTCCGGATGCTACTGGAGAAGTCAATGGC            GCTGAAGAAGNGTGGGGCCTTCAGTATCGGNCCATTCCGCCCCAGGCGGTGGTCTGG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014572
<b>Insert Size:</b>	4200 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<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>	<a href="#">NM_014572.1</a> , <a href="#">NP_055387.1</a>
<b>RefSeq Size:</b>	4098 bp

RefSeq ORF:	3267 bp
Locus ID:	26524
UniProt ID:	<a href="#">Q9NRM7</a>
Cytogenetics:	13q12.11
Domains:	UBA, pkinase, S_TK_X, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>This gene encodes a serine/threonine protein kinase belonging to the LATS tumor suppressor family. The protein localizes to centrosomes during interphase, and early and late metaphase. It interacts with the centrosomal proteins aurora-A and ajuba and is required for accumulation of gamma-tubulin and spindle formation at the onset of mitosis. It also interacts with a negative regulator of p53 and may function in a positive feedback loop with p53 that responds to cytoskeleton damage. Additionally, it can function as a co-repressor of androgen-responsive gene expression. [provided by RefSeq, Jul 2008]</p>