

## Product datasheet for **SC332962**

### LATS1 (NM\_001270519) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LATS1 (NM_001270519) Human Untagged Clone
Tag:	Tag Free
Symbol:	LATS1
Synonyms:	WARTS; wts
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC332962 representing NM\_001270519.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAAGAGGAGTGAAAAGCCAGAAGGATATAGACAAATGAGGCCTAAGACCTTCTGCCAGTAAGTAT
ACTGTTCAGTAGCCGGCAAATGTTACAAGAAATTCGGGAATCCCTTAGGAATTTATCTAAACCATCTGAT
GCTGTAAAGGCTGAGCATAACATGAGTAAAATGTCAACCGAAGATCCCTCGACAAGTCAGAAATCCACCC
AAATTTGGGACGCATCATAAAGCCTTGCAGGAAATTCGAAACTCTGCTTCCATTTGCAAAATGAAACA
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CAACATGTAGAAAATGACTCAAATCTCATCAGCAGCGTCTACATCGTAAAAACAATTAGAGAATGAA
ATGATGCGGGTAAAACCTTTTAAATGTCCATTTTATACTTAATCATCTGTTTGCTGGTGTATTATT
TAA
  
```

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001270519

**Insert Size:** 2073 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001270519.1](#)

**RefSeq Size:** 2743 bp

**RefSeq ORF:** 2073 bp

**Locus ID:** 9113

**UniProt ID:** [O95835](#)

**Cytogenetics:** 6q25.1

**Protein Families:** Druggable Genome, Protein Kinase

**MW:** 76.2 kDa

**Gene Summary:** 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]

Transcript Variant: This variant (2) lacks the last four exons and has a 3' end that extends into an intron compared to variant 1. The resulting isoform (2) has a shorter and distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.