

## Product datasheet for **SC302654**

### LCMT1 (NM\_001032391) Human Untagged Clone

#### Product data:

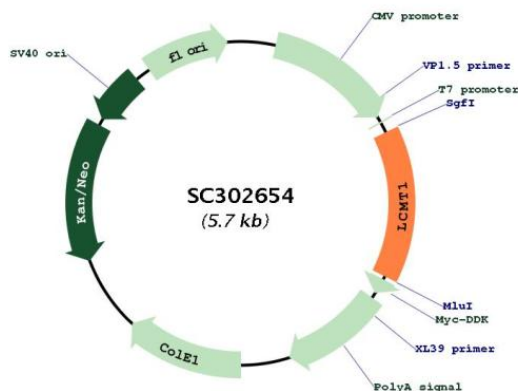
Product Type:	Expression Plasmids
Product Name:	LCMT1 (NM_001032391) Human Untagged Clone
Tag:	Tag Free
Symbol:	LCMT1
Synonyms:	CGI-68; LCMT; PPMT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302654 representing NM_001032391. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGCCACTAGGCAGAGGGAATCCTCTATCACCTCCTGCTGTTCCACCTCGAGCTGCGACGCAGACGAC
GAGGGCGTGCGCGGCACCTGCGAAGATGCTTCCCTGTGCAAGAGGTTTGAGTAAGCATTGGCTACTGG
CATGACCCTTACATACAGCACTTTGTGAGACTGTCTAAAGAGAGGAAAGCCCTGAAATCAACAGAGGA
TATTTTGTCTCGAGTCCATGGTGTGAGTGTCTAAAGGCATTTCTACGGAAGACAGAATGTCATTGT
CAAATTGTCAACCTTGGGGCAGGCATGGATACCACCTTCTGGAGATTAAGGATGAAGATCTTCTCCA
AGTAAATATTTTGTAGTTGACTTCCAATGATTGTCACGAGAAAGCTGCACAGTATCAAATGCCAACA
CTCCTGATAGCTGAATGTGTGCTGGTTTACATGACTCCAGAGCAGTCCGCAAACTCCTGAAGTGGGCA
GCCAACAGTTTTGAGAGAGCCATGTTTCATAAACTACGAACAGGTGAACATGGGTGATCGGTTTGGGCAG
ATCATGATTGAAAACCTGCGGAGACGCCAGTGTGACCTGGCGGGAGTGGAGACCTGCAAGTCATTAGAG
TCACAGAAAGAACGGCTCCTGTGCAATGGGTGGGAAACAGCATCGGCCGTCGACATGATGGAGTTGTAC
AACAGTTACCTCGAGCTGAAGTGAAGCAGGATAGAATCACTTGAATTCCTGGATGAAATGGAGCTGCTG
GAGCAGCTCATGCGCATTACTGCCTTTGCTGGGCAACCAAGGAGGAAATGAGCTTGGGCTGAAGGAG
ATAACTTATTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-MluI



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**Plasmid Map:**


**ACCN:** NM\_001032391

**Insert Size:** 840 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001032391.1](#)

**RefSeq Size:** 1209 bp

**RefSeq ORF:** 840 bp

<b>Locus ID:</b>	51451
<b>UniProt ID:</b>	<a href="#">Q9UIC8</a>
<b>Cytogenetics:</b>	16p12.1
<b>Protein Pathways:</b>	Androgen and estrogen metabolism, Histidine metabolism, Selenoamino acid metabolism, Tyrosine metabolism
<b>MW:</b>	32.2 kDa
<b>Gene Summary:</b>	<p>LCMT1 catalyzes the methylation of the carboxyl group of the C-terminal leucine residue (leu309) of the catalytic subunit of protein phosphatase-2A (PPP2CA; MIM 176915) (De Baere et al., 1999 [PubMed 10600115]).[supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (2) lacks two alternate internal exons that encode an in-frame segment, compared to variant 1. The resulting isoform (b) is shorter than isoform a.</p>