

## Product datasheet for **SC114308**

### LCMT1 (NM\_016309) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LCMT1 (NM_016309) Human Untagged Clone
Tag:	Tag Free
Symbol:	LCMT1
Synonyms:	CGI-68; LCMT; PPMT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114308 sequence for NM_016309 edited (data generated by NextGen Sequencing)

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ATGGCCACTAGGCAGAGGGAATCCTCTATCACCTCCTGCTGTCCACCTCGAGCTGCGAC
GCAGACGACGAGGGCGTGC GCGGCACCTGCGAAGATGCTTCCCTGTGCAAGAGGTTTGCA
GTAAGCATTGGCTACTGGCATGACCCTTACATACAGCACTTTGTGAGACTGTCTAAAGAG
AGGAAAGCCCTGAAATCAACAGAGGATATTTTGCTCGAGTCCATGGTGTGAGTCAAGCTT
ATAAAGGCATTTCTACGGAAGACAGAATGTCATTGTCAAATTGTCAACCTTGGGGCAGGC
ATGGATACCACCTTCTGGAGATTAAGGATGAAGATCTTCTCCCAAGTAAATATTTTGAG
GTTGACTTTCCAATGATTGTCACGAGAAAGCTGCACAGTATCAAATGCAAGCCTCCCTA
TCCAGCCCCATTCTAGAAGTGCATTGAGGACACACTTCAGATGGATGGACACATACTG
GATTCAAAGAGATATGCCGTTATTGGAGCAGATCTCCGAGACCTGTCTGAACTGGAAGAG
AAGCTAAAGAAATGTAACATGAATACACAATTGCCAACCTCCTGATAGCTGAATGTGTG
CTGGTTTACATGACTCCAGAGCAGTCCGCAAACCTCCTGAAGTGGGCAGCCAACAGTTTT
GAGAGAGCCATGTTTCATAAACTACGAACAGGTGAACATGGGTGATCGGTTTGGGCAGATC
ATGATTGAAAACCTGCGGAGACGCCAGTGTGACCTGGCGGGAGTGGAGACCTGCAAGTCA
TTAGAGTCACAGAAAGAACGGCTCCTGTGCAATGGGTGGGAAACAGCATCGGCCGTCGAC
ATGATGGAGTTGTACAACAGGTTACCTCGAGCTGAAGTGAAGCAGGATAGAATCACTTGAA
TTCCTGGATGAAATGGAGCTGCTGGAGCAGCTCATGCGGCATTACTGCCTTTGCTGGGCA
ACCAAAGGAGGAAATGAGCTTGGGCTGAAGGAGATAACTTATTA

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Clone variation with respect to NM\_016309.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_016309 unedited</p> <pre>GGTCAAATTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGGCTGAGCCAG GTAGGGCCCTACCCTCTTCTGTTGCTTTCTCCCTGTGGCTCGCGCCGTCCCCGCCGCC GTGACCCCGCTTCCATGTCCTTGGCGGACACAGCTCCCAGGAACCTCCACGCCATGGC CACTAGGCAGAGGGAATCCTCTATCACCTCCTGCTGTTCCACCTCGAGCTGCGACGCAGA CGACGAGGGCGTGC CGGCACCTGCGAAGATGCTTCCCTGTGCAAGAGGTTTGCAGTAAG CATTGGCTACTGGCATGACCCTTACATACAGCACTTTGTGAGACTGTCTAAAGAGAGGAA AGCCCCTGAAATCAACAGAGGATATTTTGTCTCGAGTCCATGGTGTGAGTCAAGCTTATAAA GGCATTCTACGGAAGACAGAATGTCATTGTCAAATTGTCAACCTTGGGGCAGGCATGGA TACCACCTTCTGGAGATTAAGGATGAAGATCTTCTCCCAAGTAAATATTTTGGAGTTGA CTTTCCAATGATTGTCACGAGAAAGCTGCACAGTATCAAATGCAAGCCTCCCCTATCCAG CCCCATTCTAGAAGTGCATTGAGAGCACACTTCAGATGGATGGACACATACTGGATTC AAAGAGATATGCCGTTATTGGAGCAGATCTCCGAGACCTGTCTGAACTGGAAGAGAAGCT AAAGAAATGTAACATGAATACACAATTGCCAACCTCCTGATAGCTGAATGGTGTGCTGG TTTACATGACTCCAGAGCAGTCCGCANACCTNNCTGAGTGGGCAGCCAACANGTTTGAGA AGACCATGTTATAAACTACGAACAGGTGAACAGGGGTGGATCGGNTTGGNGCAGATCAT GAATNGAAACCCTGCGAGACGCCAGTGTGACCTGGCGGNNAGTGGAGACCTGCAGTCATT AA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_016309 unedited</p> <pre>GACCCCGCCGAACAACCCGNGCCGCNTCCCCCTTTNNAATTTTTGACTTTGGNCCGCGG NCCGCATACNANGATCGNGTTTTTTTTTTTTTTTTTTTTTGGTGGCAAGTGGAAATTATTTAA ACAACGACATGTCAACAGGGAACAGGAAGAGGAACATGTGCGACCACTGTAGTGACCAAG GCTTCTCAAAAGTGTGGATGAGACCTGCGGACGAGGCCCGCCACCGCTCAGGGAGCTT GCAGGTCTCTCCAGGAGGGCAAGTGGCTTCGGCTTCTGGCTCGGCATAAGCCTTCGACA GATTAATAAGTTATCTCCTTCAGCCCAAGCTCATTTCCTCCTTTGGTTGCCAGCAAAGG CAGTAATGCCGCATGAGCTGCTCCAGCAGCTCCATTTATCCAGGAATCAAGTATTCT ATCCTGCTCACTTCAGCTCGAGGTAACCTGTTGTACAACCTCCATCATGTGCGACGGCCGAT GCTGTTTTCCACCATTGACAGGAGCCGTTCTTCTGTGACTCTAATGACTTGCAGGTC TCCACTCCCGCCAGGTCACACTGGCGTCTCCGCAGGTTTTCAATCATGATCTGCCCAAAC CGATACCCATGTTACCTGTTCTGATTTATGAACATGGCTCTCTCAAACCTGTTGGCT GCCCACTTCAGGAGGTTTGGGACTGCTCTGGAGTCATGTAACAGCACACATTGAGCT ATCAGGAGTGTGGCAATTGGGTATTGATGTTACATTTCTTTAGCTTCTCTTCCAGTTCA GACAGGCTCGGAGATCTGCTCCAATAACGCCATATCCTCTTTGAATCCAGTATGTGTGC ATCCATTTGAAGTGTGCTCTGGAAGCAAGTTTTAAATGGGGCTGGTAAGGGGAGGCT TGCCTTTGAACTGGCCAGCTTTTTCTGTGAAAAT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016309
<b>Insert Size:</b>	1380 bp
<b>OTI Disclaimer:</b>	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).
<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_016309.2</a> , <a href="#">NP_057393.2</a>
<b>RefSeq Size:</b>	1374 bp
<b>RefSeq ORF:</b>	1005 bp
<b>Locus ID:</b>	51451
<b>UniProt ID:</b>	<a href="#">Q9UIC8</a>
<b>Cytogenetics:</b>	16p12.1
<b>Domains:</b>	LCM
<b>Protein Pathways:</b>	Androgen and estrogen metabolism, Histidine metabolism, Selenoamino acid metabolism, Tyrosine metabolism
<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 (1) represents the longer transcript and encodes the longer isoform (a).</p>