

Product datasheet for **SC308461**

LCTL (NM_207338) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LCTL (NM_207338) Human Untagged Clone
Tag:	Tag Free
Symbol:	LCTL
Synonyms:	KLG; KLPH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_207338 edited
 ATGAAGCCAGTGTGGGTCGCCACCCCTTCTGTGGATGCTACTGCTGGTGCCCAGGCTGGGG
 GCCGCCCGGAAGGGGTCCCCAGAAGAGGCCTCCTTCTACTATGGAACCTTCCCTCTTGGC
 TTCTCCTGGGGCGTGGGCAGTTCTGCCTACCAGACGGAGGGCGCCTGGGACCAGGACGGG
 AAAGGGCTAGCATCTGGGACGTCTTACACACAGTGGGAAGGGGAAAGTCTTGGGAAT
 GAGACGGCAGATGTAGCCTGTGACGGCTACTACAAGTCCAGGAGGACATCATTCTGTG
 AGGGAATGCACGTCAACCACTACCGATTCTCCCTGTCTTGGCCCCGGCTCCTGCCACA
 GGCATCCGAGCCGAGGTGAACAAGAAGGGAATCGAATTCTACAGTGATCTTATCGAT
 GCCCTTCTGAGCAGCAACATCACTCCCATCGTGACCTTGCACTGGGATCTGCCACAG
 CTGCTCCAGGTCAAATACGGTGGGTGGCAGAATGTGAGCATGGCCAACACTTTCAGAGAC
 TACGCCAACCTGTGCTTTGAGGCCTTTGGGGACCGTGTGAAGCACTGGATCACGTTCACT
 GATCCTCGGGCAATGGCAGAAAAGGCTATGAGACGGGCCACCATGCGCCGGGCCTGAAG
 CTCGCGGCACCCGGCCTGTACAAGGCAGCACACCACATCATTAAAGCCCACGCCAAAGCC
 TGGCATTCTTATAACACCACGTGGCGCAGCAAGCAGCAAGGTCTGGTGGGAATTTCAATTG
 AACTGTGACTGGGGGAACTGTGGACATTAGTAACCCCAAGGACCTAGAGGCTGCCGAG
 AGATACCTACAGTTCTGTCTGGGCTGGTTGCCAACCCCAATTTATGCCGGTGACTACCCC
 CAAGTCATGAAGGACTACATTGGAAGAAAGAGTGCAAGCAAGGCTGGAGATGTCGAGG
 TTACCGGTGTTCTCACTCCAGGAGAAGAGCTACATTAAGGCACATCCGATTTCTTGGGA
 TTAGGTCAATTTACTACTCGGTACATCACGAAAGGAACTACCCCTCCCAGGAGGGCC
 AGCTACCAGAACGATCGTGACTTGATAGAGCTGGTTGACCCAACTGGCCAGATCTGGGG
 TCTAAATGGCTATATTCTGTGCCATGGGGATTTAGGAGGCTCCTTAACTTTGCTCAGACT
 CAATACGGTGATCCTCCCATATATGTGATGGAAAATGGAGCATCTCAAAAATCCACTGT
 ACTCAATTATGTGATGAGTGGAGAATTCAATACCTTAAAGGATACATAAATGAAATGCTA
 AAAGCTATAAAAGATGGTGCTAATAAAGGGGTATACTTCTGCTCTGTTGGATAAG
 TTTGAATGGGAGAAAGGATACTCAGATAGATATGGATTCTACTATGTTGAATTTAACGAC
 AGAAAATAGCCTCGTATCCAAAGGCTTCAATATTACAAGAAGATTATCATTGCC
 AATGGGTTTCCCAATCCAAGAGAGGTGGAAAGTTGGTACCTCAAAGCTTTGGAACTTGC
 TCTATCAACAATCAGATGCTTGTGCAGAGCCCTTGTAAAGTACATGCAAAATGTTACG
 GAGATCGTGGTACCCACTGTCTGCTCCCTCTGTGCTCCTCATCACTGCTGTCTACTAATG
 CTCCTCTGAGGAGGCAGAGCTGA

Restriction Sites: Please inquire

ACCN: NM_207338

Insert Size: 1700 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none">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:	<u>NM_207338.2</u> , <u>NP_997221.2</u>
RefSeq Size:	2128 bp
RefSeq ORF:	1704 bp
Locus ID:	197021
UniProt ID:	<u>Q6UWM7</u>
Cytogenetics:	15q22.31
Protein Families:	Transmembrane
Gene Summary:	<p>This gene encodes a member of family 1 glycosidases. Glycosidases are enzymes that hydrolyze glycosidic bonds and are classified into families based on primary amino acid sequence. Most members of family 1 have two conserved glutamic acid residues, which are required for enzymatic activity. The mouse ortholog of this protein has been characterized and has a domain structure of an N-terminal signal peptide, glycosidase domain, transmembrane domain, and a short cytoplasmic tail. It lacks one of the conserved glutamic acid residues important for catalysis, and its function remains to be determined (PMID: 12084582). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer 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.</p>