

## Product datasheet for **SC115449**

### SLC39A6 (NM\_012319) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A6 (NM_012319) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC39A6
Synonyms:	LIV-1; ZIP6
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_012319, the custom clone sequence may differ by one or more nucleotides

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ATGGCGAGGAAGTTATCTGTAATCTTGATCCTGACCTTTGCCCTCTCTGTCACAATCCCCTTCATGAAC
TAAAAGCAGCTGCTTTCCCCAGACCAGTGAAGAAATAGTCCGAATTGGGAATCTGGCATTAAATGTTGA
CTTGGCAATTTCCACACGGCAATATCATCTACAACAGCTTTTCTACCGCTATGGAGAAAAAATTTCTTTG
TCAGTTGAAGGGTTCAGAAAAATTACTTCAAATATAGGCATAGATAAGATTAAAAGAATCCATATACACC
ATGACCACGACCATCACTCAGACCACGAGCATCACTCAGACCATGAGCGTCACTCAGACCATGAGCATCA
CTCAGACCACGAGCATCACTCTGACCATGATCATCACTCTCACCATAATCATGCTGCTTCTGGTAAAAAT
AAGCGAAAAGCTCTTTGCCAGACCATGACTCAGATAGTTCAGGTAAAGATCCTAGAAACAGCCAGGGGA
AAGGAGCTCACCGACCAGAACATGCCAGTGGTAGAAGGAATGTCAAGGACAGTGTAGTGTAGTGAAGT
GACCTCAACTGTGTACAACACTGTCTCTGAAGGAACACTTTCTAGAGACAATAGAGACTCCAAGACCT
GGAAAACCTTTCCCAAAGATGTAAGCAGCTCCACTCCACCCAGTGTACATCAAAGAGCCGGGTGAGCC
GGCTGGCTGGTAGGAAAACAAATGAATCTGTGAGTGAGCCCCGAAAAGGCTTTATGTATTCCAGAAACAC
AAATGAAAATCCTCAGGAGTGTTCATGCATCAAAGCTACTGACATCTCATGGCATGGGCATCCAGGTT
CCGCTGAATGCAACAGAGTTCAACTATCTGTCCAGCCATCATCAACAAATGATGCTAGATCTTGTGTC
TGATTCATACAAGTGAAGAAGGCTGAAATCCCTCAAAGACCTATTCATTACAAATAGCCTGGGTTGG
TGGTTTTATAGCCATTTCCATCATCAGTTTCTGTCTCTGCTGGGGGTTATCTTAGTGCCTCTCATGAAT
CGGGTGTTTTTCAAATTTCTCCTGAGTTTCTTGTGGCACTGGCCGTTGGGACTTTGAGTGGTGTGCTT
TTTTACACCTTCTCCACATTCTCATGCAAGTCAACCATAGTCATAGCCATGAAGAACCAGCAATGGA
AATGAAAAGAGGACCCTTTTTCAGTCATCTGTCTTCTCAAACATAGAAGAAAGTGCCTATTTTGTATTCC
ACGTGGAAGGGTCTAACAGCTCTAGGAGCCTGTATTTTCATGTTTCTTGTGTAACATGCTCCTCACATTGA
TCAAACAATTTAAGATAAGAAGAAAAAGAAATCAGAAGAAACCTGAAAATGATGATGATGTGGAGATTAA
GAAGCAGTTGTCCAAGTATGAATCTCAACTTTCAACAAATGAGGAGAAAGTAGATACAGATGATCGAACT
GAAGGCTATTTACGAGCAGACTCACAAGAGCCCTCCCACTTTGATTCTCAGCAGCCTGCAGTCTTGGAAAG
AAGAAGAGGTCATGATAGCTCATGCTCATCCACAGGAAGTCTACAATGAATATGTACCCAGAGGGTGCAA
GAATAAATGCCATTACATTTCCACGATACACTCGGCCAGTCAAGCAGTCTCATTACCACCATCATGAC
TACCATCATATTCTCCATCATCACCACCACAAAACCACCATCCTCACAGTCACAGCCAGCGCTACTCTC
GGGAGGAGCTGAAAGATGCCGGCGTCGCCACTCTGGCCTGGATGGTGATAATGGGTGATGGCCTGCACAA
TTTCAGCGATGGCCTAGCAATTGGTGTGCTTTTACTGAAGGCTTATCAAGTGGTTTAACTACTTCTGTT
GCTGTGTTCTGTGATGATTGCCTCATGAATTAGGTGACTTTGCTGTTCTACTAAAGGCTGGCATGACCG
TTAAGCAGGCTGTCTTTATAATGCATTGTGAGCCATGCTGGCGTATCTTGAATGGCAACAGGAATTTT
CATTGGTCATTATGCTGAAAATGTTTCTATGTGGATATTTGCACTTACTGCTGGCTTATTTCATGTATGTT
GCTCTGGTTGATGGTACCTGAAATGCTGCACAAATGATGCTAGTGACCATGGATGTAGCCGCTGGGGGT
ATTTCTTTTTACAGAATGCTGGGATGCTTTTGGGTTTTGGAAATATGTTACTTATTTCCATATTTGAACA
TAAAATCGTGTTTCGTATAAATTTCTAG
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_012319 unedited  
 GTGCACATTTGTATACGACTCATATAGGGCGGCCGCGATTTCGGCACGAGGCGGTGGTTCC  
 CCGCGGCGCTGCGCGCGGCGTAATTAGTGATTGTCTCCAGCTTCGCGAAGGCTAGGGG  
 CGCGGCTGCCGGTGGCTGCGCGGTGCTGCCCCGGACCGAGGGGCAGCCAACCCAATGA  
 AACCCCGCGTGTTCGCGCTGGTAGAGATTTCTGAAGACACCAGTGGGCCGTTCCGA  
 GCCCTCTGGACCGCCCGTGTGGAACCAACCTGCGCGCGTGGCCGGGCGGTGGGACAACG  
 AGCCCGGAGACGAAGGCGCAATGGCGAGGAAGTTATCTGTAATCTTGATCCTGACCTT  
 TGCCCTCTGTGACAAAATCCCCTTCATGAACTAAAAGCAGCTGCTTTCCCCCAGACCAC  
 TGAGAAAATTAGTCCGAATTGGGAATCTGGCATTAAATGTTGACTTGGCAATTTCCACACG  
 GCAATATCATCTACAACAGCTTTTCTACCGCTATGGAGAAAATAATTCTTTGTGAGTTGA  
 AGGGTTACAGAAAATTACTTCAAAATATAGGCATAGATAAGATTAAGAATCCATATACA  
 CCATGACCACGACCATCACTCAGACCACGAGCATCACTCTGACCATGATCATCACTCTCA  
 CCATAATCATGCTGCTTCTGGTAAAAATAAGCGAANAGCTCTTTGCCAGACCATGACTC  
 AGATAGTTCAGGTAAGATCCTAGAAAACAGCCAGGGGAAAGGAGCTCACCGACCAGAACA  
 TGCCAGTGGTAGAAAATGTCAAGGACAGTGTAGTGCTAGTGAAGTGACCTCAACTGT  
 GTACAACACTGTCTCTGAAGGAACCTCACTTTCTAGAGACAATAGAGACTCCAAGACCTGG  
 AAAACTCTTCCCCAAGAGTNAGCAGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_012319 unedited  
 GGCCTTACTTGNACCCGCGCATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTCAAGC  
 TGATATAAGGAATTTATTGTGTAACAAAAAACATCTAGAGAATGCCACAGACAGGCTAG  
 TATGGCTACAGTACCGTATATAAAAGACAATTGCTCACAATGATAGCACTGAAGCACTGA  
 GAGATATCAAAGTACTTTCTGAATCGAATCAAATGATACTTAGTGTAGTTTTAATCCT  
 CATATATATCAAAGTTTTACTACTCTGATAATTTTGTAACCAGGTAACCAGAATCCCA  
 GTCATACAGCTTTTGGTATATATAACTTGGCAATAACCCAGTCTGGTGATACATAAAAC  
 TACTCACTGTACTCATCTGGTATATACCCGCACGAACATTTTGAATTTCAATTTCTTG  
 TCAAGTGATATATTGCTGAATTCATTAATATATTTAGATTTCTGTATTATACAAAGTT  
 AAATGTACAACATAAATTACTATATGAAAAGTGCTCACTACGTTTTTACGGGAAATATCC  
 TGACAAAAATGTTAATGAATGACTCTATACTAATTCTGCCTTTTTATACTTAATCTA  
 AATTTCTCCCCTCAATTTACAACAAATTTTGGATTTTTATAAGAATCTATGCCTCCCC  
 AATTCTCAGATTCTTCTCTTCTCCTTTATTCTTTGCTTAAACTCAGTATAACCTTTC  
 TTGAATTTAAGCTTAATGCCATTCTTAATCCTAAACACCACACTTCTCAGAGACCT  
 AAAATCAGTATAGGAATAACTGTGTTAGCTCCTTGAAAAAGCTTAAAGACATTTTCTCT  
 GAAACATACAAAATGCCATGCCAATATCTTGTCAACTAATAAAGTGCATACCCGCGA  
 AACGCCCAACCAGATTTATCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_012319

**Insert Size:**

4000 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](mailto: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](#)

**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\\_012319.1](#), [NP\\_036451.1](#)

**RefSeq Size:** 3637 bp

**RefSeq ORF:** 2259 bp

**Locus ID:** 25800

**UniProt ID:** [Q13433](#)

**Cytogenetics:** 18q12.2

**Domains:** Zip

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** Zinc is an essential cofactor for hundreds of enzymes. It is involved in protein, nucleic acid, carbohydrate, and lipid metabolism, as well as in the control of gene transcription, growth, development, and differentiation. SLC39A6 belongs to a subfamily of proteins that show structural characteristics of zinc transporters (Taylor and Nicholson, 2003 [PubMed 12659941]).[supplied by OMIM, Mar 2008]

Transcript Variant: This variant (1) represents the longer 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.