

## Product datasheet for **SC122611**

### Cystathionase (CTH) (NM\_001902) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cystathionase (CTH) (NM_001902) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cystathionase
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001902 edited  
 CTTTAGTGCCTCGCCGTCGCTCTACCTGCGTCTTTAGCTCCTTCTCGCCTGATCCTT  
 CTGTCTCTCCCAACCCCGACACCCGGCTTCGACTGGTTATATCTTCGGTGTCTTTTCC  
 TCTCTTCTTTTCGCGGTTTCAGCATGCAGGAAAAAGACGCCTCCTCACAAAGTTTCTG  
 CCACACTTCCAACATTTCCGCCACGCAGGCGATCCATGTGGGCCAGGATCCAGAGCAATGG  
 ACCTCCAGGGCTGTAGTGCCCCCATCTCACTGTCCACCACGTTCAAGCAAGGGGCGCCT  
 GGCCAGCACTCGGTTTTGAATATAGCCGTTCTGGAAATCCCACACTAGGAATTGCCTTGAA  
 AAAGCAGTGGCAGCACTGGATGGGGCTAAGTACTGTTTGGCCTTTGCTTCAGTTTTAGCA  
 GCCACTGTAACCTATTACCATCTTTTAAAAGCAGGAGACCAAATATTTGTATGGATGAT  
 GTGTATGGAGGTACAAACAGGACTTTCAGGCAAGTGGCATCTGAATTTGGATTAAAGATT  
 TCTTTTGTGATTGTTCCAAAATCAAATTAAGAGGCAGCAATTACACCAGAAACCAAG  
 CTTGTTTGGATCGAAACCCCAAAACCCACCCAGAAGGTGATTGACATTGAAGGCTGT  
 GCACATATTGCCATAAGCATGGAGACATTATTTTGGTCGTGGATAACACTTTTATGTCA  
 CCATATTTCCAGCGCCCTTTGGCTCTGGGAGCTGATATTTCTATGATTCTGCAACAAAA  
 TACATGAATGGCCACAGTGTGTAATGGGCCTGGTGTCTGTTAATTGTGAAAGCCTT  
 CATAATAGACTTCGTTTTCTGCAAAACTCTCTGGAGCAGTTCATCTCCTATTGATTGT  
 TACCTCTGCAATCGAGGTCTGAAGACTCTACATGTCCGAATGGAAAAGCATTTCAAAAAC  
 GGAATGGCAGTTGCCAGTTCCTGGAATCTAATCCTTGGGTAGAAAAGGTTATTTATCCT  
 GGGCTGCCCTCTCATCCACAGCATGAGTTGGTGAAGCGTCAGTGTACAGGTTGTACAGGG  
 ATGGTCACCTTTTATATTAAGGGCACTCTTCAGCATGCTGAGATTTTCTCAAGAACCTA  
 AAGCTATTTACTCTGGCCGAGAGCTTGGGAGGATTCGAAAAGCCTTGTCTGAGCTTCCGGCA  
 ATCATGACTCATGCATCAGTCTTAAGAATGACAGAGATGCTTGGAAATTAGTGACACA  
 CTGATTCGACTTTCTGTGGCTTAGAGGATGAGGAAGACCTACTGGAAGATCTAGATCAA  
 GCCTTTGAAGGCAGCACCCCTCCAAGTGAAGTACAGCTAGTATTCCAGAGCTGCTATT  
 AGAAGCTGCTTCTGTGAAGATCAAATCTTCTGAGTAATTAATGGACCAACAATGAGC  
 CTTTGCAAAATTTCAAGCGGAAATTTTAAAGCACCTCATTATCTTTCATAACTGTAATT  
 TTCTTAGGGATCATCTCTGTTAAAAAGTTTTCTGTATGTCATGTTATAATTACAGGTCAA  
 TTCTGTTAATATCTTTTTGTTAATTTTGTCTATGTTTGCCTCTGAAGGAGGTGAGATTT  
 GTGCTACTTTGGGAGATTATGTTCTTTTTTTCATGTCTAAGATTTATTTTGTATGTTTA  
 TAATATAATGGTAATTCATTTTTGATGTTTTGTGAAGAATTTAAATTTAAACGAATGTT  
 TTAATCAAGTGTGATTTTTTGCATATCATTGAAAAGAACATTTAAAGCAATGGTTTAC  
 ACTTAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_001902 unedited  
 GGCAGTTCNGATTTGTATACGACTCATATAGGGCGGCCGCGATTCCCGGGATATCGTGA  
 CCCACGCGTCCGCCACGCGTCCGCTTTAGTGCCTCGCCGTCGGCTCTACCTGCGTGCT  
 TTAGCTCCTTCTCGCCTGATCCTTCTGTCTCTCCAACCCCGACACCCGGCTTCGACTG  
 GTTATATCTTCGGTGTCTTTTCTCTCTTCTTTTCGCGGTTTCAGCATGCAGGAAAAA  
 GACGCCTCCTCACAAAGTTTCTGCCACACTTCCAACATTTCCGCCACGCAGGCGATCCAT  
 GTGGGCCAGGATCCAGAGCAATGGACCTCCAGGGCTGTAGTGCCCCCATCTCACTGTCC  
 ACCACGTTCAAGCAAGGGGCGCCTGGCCAGCACTCGGTTTTTGAATATAGCCGTTCTGGA  
 AATCCCCTAGGAATTGCCTTGA AAAAGCAGTGGCAGCACTGGATGGGGCTAAGTACTGT  
 TTGGCCTTTGCTTCAGGTTTAGCAGCCACTGTAACCTATTACCCATCTTTTAAAAGCAGGA  
 GACCAAATATTTGTATGGATGATGTGTATGGAGGTACAAACAGGTACTTCAGGCAAGTG  
 GCATCTGAATTTGGATTAAGATTTCTTTTGTGATTGTTCCAAAATCAAATTAAGAG  
 GCAGCAATTACACCAGANACCAAGCTTGTGGATCGAAACCCCAAAACCCCAACCCAG  
 AAGGTGATTGACATTGAAGGCTGTGCACATATTGCCATAAGCATGGAGACATTATTTT  
 GGTGCGTGGATAACAATTTTATGTACCATATTTCCAGCGCCCTTTGGCTCTGGGAGCTGA  
 TATTTCTATGATTCTGCNACAAATACATGAATGGCCACAGTGTGTTAATGGGCCTG

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001902

<b>Insert Size:</b>	1831 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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_001902.4</a> , <a href="#">NP_001893.2</a>
<b>RefSeq Size:</b>	1819 bp
<b>RefSeq ORF:</b>	1218 bp
<b>Locus ID:</b>	1491
<b>UniProt ID:</b>	<a href="#">P32929</a>
<b>Cytogenetics:</b>	1p31.1
<b>Protein Pathways:</b>	Cysteine and methionine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Nitrogen metabolism, Selenoamino acid metabolism
<b>Gene Summary:</b>	<p>This gene encodes a cytoplasmic enzyme in the trans-sulfuration pathway that converts cystathione derived from methionine into cysteine. Glutathione synthesis in the liver is dependent upon the availability of cysteine. Mutations in this gene cause cystathioninuria. Alternative splicing of this gene results in three transcript variants encoding different isoforms. [provided by RefSeq, Jun 2010]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1) of this protein. 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>