

## Product datasheet for **RR205012**

### Cth (NM\_017074) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cth (NM\_017074) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cth  
**Synonyms:** H  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR205012 representing NM\_017074  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCAGAAGGACGCTCCTCCAGCGGCTTCTGCCAGCTTCCAGCACTTGGCACTCAGGCCATCCAG  
TGGGACCAGAGCCGGAGCAATGGAGTTCGCGTGTGTGGTGTGCCATTCGCTGGCCACCACGTTCAA  
ACAGGACTCTCCAGGCCAGTCTCGGGTTTTGTATACAGCCGCTCTGAAATCCGACGAGGAATTGCTTG  
GAAAAAGCAGTGGCTGCACTGGATGGGGCAAAGCACTGTTTGACCTTCGCTCGGGGCTTCCCGCCACCA  
CAACGATTACCCATCTTTAAAAGCAGGAGATGAAGTCATTTGCATGGATGAAGTGTATGGAGGCCACAA  
CAGGACTTCCAGGAGGTGGCATCCGAGTTGGACTGAAGATTTCTTTGTGGATTGTTCCAAAACCAAA  
TTGCTGGAGGCAGCGATCACACCACAGACCAAGCTTGTGGATTGAAACACCCACAAACCAACCTTGA  
AGTTGGCCGACATCAAAGCCTGCGCACAAATTGCCACAAACACAAAGACATCATTCTGGTTGTAGATAA  
CACTTTCATGTCTGCATATTTCCAGAGACCTTTGGCTCTGGGTGCTGATTTGTATGTGTTCTGCCACA  
AAATACATGAACGGCCACAGTGTGTTGCATGGGCTTAGTGTCTGTTACTTCCGATGACCTCAACGAAC  
GGCTTCGTTTCTGCAGAATCTCTCGGGCAGTTCCTTCTCATTTCGATTGTTACTCTGCTGCCGAGG  
CCTGAAGACACTGCAGATCCGGATGGAGAACTTCAGGAATGGGATGGCAGTGGCCCGTTTCTGGAG  
TCTAATCCCCGGGTAGAAAAGTTATTTATCCTGGGCTACCGTCTCACCTCAGCATGAGCTCGCCAAAC  
GTCAGTGCACGGGCTGCCCGGGATGGTCAGTTTCTATATCAAGGGTACTCTGCAGCATGCTCAGGTCTT  
CCTCAAAAATATAAAGCTGTTTGTCTGGCTGAGAGCCTGGGAGGATATGAGAGTCTGGCTGAGCTTCCA  
GCAATCATGACCCATGCCTCCGTGCCTGAGAAGGACAGAGCTACCCTCGGGATCAGTGACACACTGATCC  
GACTTTCGTGGGCTAGAGGATGAAAAGGACCTTCTCGAAGACCTGGTCAAGCTTTAAAGGCAGCGCA  
CCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RR205012 representing NM\_017074  
 Red=Cloning site Green=Tags(s)

MQKDASSGFLPSFQHFATQAIHVGPEPEQWSSRAVVLPISLATTFKQDSPGQSSGFVYSRSGNPTRNCL  
 EKAVAALDGAHKCLTFARGLAATTTITHLLKAGDEVICMDEVYGGTNRVYFRVASEFGLKISFVDCSKTK  
 LLEAAITPQTKL VWIETPTNPTLKLADIKACAQIVHKKHDIILVVDNTFMSAYFQRPLALGADICMSAT  
 KYMNGHSDVVMGLVSVTSDDLNERLRFLQNSLGAVPSPFDCYLCCRGLKTLQIRMEKHFRNGMAVARFLE  
 SNPRVEKVIYPGLPSHPQHELAKRQCTGCPGMVSFYIKGTLQHAQVFLKNIKLFALAESLGGYESLAELP  
 AIMTHASVPEKDRATLGI SDTL IRL SVGLEDEKDLLEDLGQALKAHP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

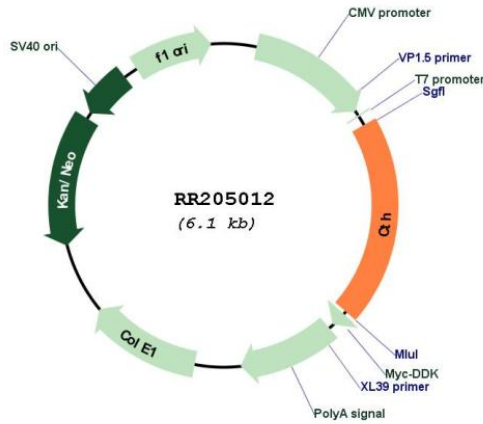
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_017074

<b>ORF Size:</b>	1194 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_017074.1</a> , <a href="#">NP_058770.1</a>
<b>RefSeq Size:</b>	1743 bp
<b>RefSeq ORF:</b>	1197 bp
<b>Locus ID:</b>	24962
<b>UniProt ID:</b>	<a href="#">P18757</a>
<b>Cytogenetics:</b>	2q45
<b>MW:</b>	43.6 kDa
<b>Gene Summary:</b>	putative cystathionine gamma-lyase enzyme [RGD, Feb 2006]