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Product datasheet for SC306651

Cystathionase (CTH) (NM_153742) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cystathionase (CTH) (NM_153742) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306651 representing NM_153742. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGCAGGAAAAAGACGCCTCCTCACAAGGTTTCCTGCCACACTTCCAACATTTCGCCACGCAGGCGATC CATGTGGGCCAGGATCCAGAGCAATGGACCTCCAGGGCTGTAGTGCCCCCCATCTCACTGTCCACCACG TTCAAGCAAGGGGCGCCTGGCCAGCACTCGGGTTTTGAATATAGCCGTTCTGGAAATCCCACTAGGAAT TGCCTTGAAAAAGCAGTGGCAGCACTGGATGGGGCTAAGTACTGTTTGGCCTTTGCTTCAGGTTTAGCA GCCACTGTAACTATTACCCATCTTTTAAAAGCAGGAGACCAAATTATTTGTATGGATGATGTGTATGGA GGTACAAACAGGTACTTCAGGCAAGTGGCATCTGAATTTGGATTAAAGATTTCTTTTGTTGATTGTTCC AAAATCAAATTACTAGAGGCAGCAATTACACCAGAAACCAAGCGCCCTTTGGCTCTGGGAGCTGATATT TCTATGTATTCTGCAACAAAATACATGAATGGCCACAGTGATGTTGTAATGGGCCTGGTGTCTGTTAAT TGTGAAAGCCTTCATAATAGACTTCGTTTCTTGCAAAACTCTCTTGGAGCAGTTCCATCTCCTATTGAT TGTTACCTCTGCAATCGAGGTCTGAAGACTCTACATGTCCGAATGGAAAAGCATTTCAAAAACGGAATG GCAGTTGCCCAGTTCCTGGAATCTAATCCTTGGGTAGAAAAGGTTATTTATCCTGGGCTGCCCTCTCAT CCACAGCATGAGTTGGTGAAGCGTCAGTGTACAGGTTGTACAGGGATGGTCACCTTTTATATTAAGGGC ACTCTTCAGCATGCTGAGATTTTCCTCAAGAACCTAAAGCTATTTACTCTGGCCGAGAGCTTGGGAGGA TTCGAAAGCCTTGCTGAGCTTCCGGCAATCATGACTCATGCATCAGTTCTTAAGAATGACAGAGATGTC CTTGGAATTAGTGACACACTGATTCGACTTTCTGTGGGCTTAGAGGATGAGGAAGACCTACTGGAAGAT CTAGATCAAGCTTTGAAGGCAGCACACCCTCCAAGTGGAAGTCACAGCTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI
Plasmid Map:	
ACCN:	NM_153742

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Insert Size:	1086 bp
OTI Disclaimer:	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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_153742.4
RefSeq Size:	2008 bp
RefSeq ORF:	1086 bp
Locus ID:	1491
UniProt ID:	P32929
Cytogenetics:	1p31.1
Protein Pathways:	Cysteine and methionine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Nitrogen metabolism, Selenoamino acid metabolism
MW:	39.5 kDa
Gene Summary:	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] Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, compared to variant 1, resulting in a shorter isoform (2). 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.