

Product datasheet for **SC319365**

Cathepsin H (CTSH) (NM_004390) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cathepsin H (CTSH) (NM_004390) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cathepsin H
Synonyms:	ACC-4; ACC-5; ACC4; ACC5; CPSB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004390.2
GACGCTCTGGGCCGCCACCTCCGCGGACCCTGAGCGCAAGAGCCAAGCCGCCAGCGCTGC
TATGTGGGCCACGCTGCCGCTGCTGCGCCGGGCGCTGGCTCCTGGGAGTCCCCGCTGC
CGGTGCCGCCGAAGTGTCCGTGAACTCCTTAGAGAAGTTTCACTTCAAGTCATGGATGTC
TAAGCACCGTAAGACCTACAGTACGGAGGAGTACCACCACAGGCTGCAGACGTTTGCCAG
CAACTGGAGGAAGATAAACGCCACAACAATGGGAACCACACATTTAAAATGGCACTGAA
CCAATTTTCAGACATGAGCTTTGCTGAAATAAACACAAGTATCTCTGGTCAGAGCCTCA
GAATTGCTCAGCCACAAAAGTAACTACCTTCGAGGACTGGTCCCTACCCACCTTCCGT
GGACTGGCGGAAAAAAGGAAATTTGTCTCACCTGTGAAAAATCAGGGTGCCTGCGGCAG
TTGCTGGACTTTCTCCACTGGGGCCCTGGAGTCTGCGATCGCCATCGCAACCGGAAA
GATGCTGTCTTGGCGGAACAGCAGCTGGTGGACTGCGCCAGGACTTCAATAATCACGG
CTGCCAAGGGGTCTCCCCAGCCAGGCTTTCGAGTATATCCTGTACAACAAGGGGATCAT
GGGTGAAGACACCTACCCCTACCAGGGCAAGGATGGTTATTGCAAGTTCCAACCTGGAAA
GGCCATCGGCTTTGTCAAGGATGTAGCCAACATCACAATCTATGACGAGGAAGCGATGGT
GGAGGCTGTGGCCCTCTACAACCCTGTGAGCTTTGCCCTTGAGGTGACTCAGGACTTCAT
GATGTATAGAACGGGCATCTACTCCAGTACTTCTGCCATAAACTCCAGATAAAGTAA
CCATGCAGTACTTGCTGTTGGGTATGGAGAAAAAATGGGATCCCTTACTGGATCGTGAA
AACTCTTGGGGTCCCCAGTGGGAATGAACGGGACTTCTCATCGAGCGCGGAAAGAA
CATGTGTGGCTGGCTGCCTGCGCCTCTACCCATCCCTCTGGTGTGAGCCGTGGCAGC
CGCAGCGCAGACTGGCGGAGAAGGAGAGGAACGGGCAGCCTGGGCCTGGGTGGAATCCT
GCCCTGGAAGAAGTTGTGGGGAGATCCACTGGGACCCCAACATTCTGCCCTCACCTCTG
TGCCAGCCTGGAAACCTACAGACAAGGAGGAGTCCACCATGAGCTCACCCGTGTCTAT
GACGCAAAGATCACCAGCCATGTGCCTTAGTGTCTTCTTAACAGACTCAAACCACATGG
ACCACGAATATTCTTTCTGTCCAGAAGGGCTACTTTCCACATATAGAGCTCCAGGGACTG
TCTTTTCTGTATTCGCTGTTCAATAAACATTGAGTGAGCACCTCCCCAGATGGAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA



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Restriction Sites:	Please inquire
ACCN:	NM_004390
Insert Size:	1500 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:	<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_004390.2</u> , <u>NP_004381.2</u>
RefSeq Size:	1504 bp
RefSeq ORF:	1008 bp
Locus ID:	1512
UniProt ID:	<u>P09668</u>
Cytogenetics:	15q25.1
Domains:	Pept_C1
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Lysosome
Gene Summary:	<p>The protein encoded by this gene is a lysosomal cysteine proteinase important in the overall degradation of lysosomal proteins. It is composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. The encoded protein, which belongs to the peptidase C1 protein family, can act both as an aminopeptidase and as an endopeptidase. Increased expression of this gene has been correlated with malignant progression of prostate tumors. Alternate splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript and encodes the longer isoform (a).</p>