

Product datasheet for **SC119313**

Cathepsin Z (CTSZ) (NM_001336) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cathepsin Z (CTSZ) (NM_001336) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cathepsin Z
Synonyms:	CTSX
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119313 sequence for NM_001336 edited (data generated by NextGen Sequencing)

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ATGGCGAGGCGCGGGCCAGGGTGGCGGCCGCTTCTGCTGCTCGTGTGCTGGCGGGCGCG
GCGCAGGGCGGCCCTACTTCCGCCGGGACAGACCTGCTACCGGCTCTGCGGGGGGAC
GGGCTGGCTCCGCTGGGGCGCAGCACATACCCCGGCCTCATGAGTACCTGTCCCCAGCG
GATCTGCCAAGAGCTGGGACTGGCGCAATGTGGATGGTGTCAACTATGCCAGCATCACC
CGGAACCAGCACATCCCCAATACTGCGGCTCCTGCTGGGCCACGCCAGCACCAGCGCT
ATGGCGGATCGGATCAACATCAAGAGGAAGGGAGCGTGGCCCTCCACCCTCCTGTCCGTG
CAGAACGTCATCGACTGCGGTAACGCTGGCTCCTGTGAAGGGGTAAATGACCTGTCCGTG
TGGGACTACGCCACCAGCACGGCATCCCTGACGAGACCTGCAACAACCTACCAGGCCAAG
GACCAGGAGTGTGACAAGTTTAACCAATGTGGGACATGCAATGAATTCAAAGAGTGCCAC
GCCATCCGGAACCTACACCCTCTGGAGGGTGGGAGACTACGGCTCCCTCTCTGGGAGGGAG
AAGATGATGGCAGAAATCTACGCAAATGGTCCCATCAGCTGTGGAATAATGGCAACAGAA
AGACTGGTAACTACACCGGAGGCATCTATGCCGAATACCAGGACACCACATATAAAAC
CATGTCGTTTTCCGTGGCTGGGTGGGCATCAGTGATGGGACTGAGTACTGGATTGTCCGG
AATTCATGGGGTGAACCATGGGGCGAGAGAGGCTGGCTGAGGATCGTGACCAGCACCTAT
AAGGATGGGAAGGGCGCCAGATAACAACCTTGCCATCGAGGAGCACTGTACATTTGGGGAC
CCATCGTTTAA

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Clone variation with respect to NM_001336.3
732 t=>c



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001336 unedited</p> <pre>CCATTCGATTTGTAACCGATTTATATAGGCGGCCGCGCAATTCGCACCAGGCCGGGTGC TATGCCGGGGCTGAGGCCGAGGCCGGGGCGGGATCCAGAGCGGGAGCCGGCGCGGGATC TGGGACTCGGAGCGGGATCCGGAGCGGGACCCAGGAGCCGGCGCGGGGCCATGGCGAGGC GCGGGCCAGGGTGGCGGCCGCTTCTGCTGCTCGTGTGCTGGCGGGCGCGGGCGCAGGGCG GCCTCTACTTCCGCCGGGACAGACCTGCTACCGGCTCTGCGGGGGACGGGCTGGCTC CGCTGGGGCGCAGCACATACCCCGGCCCTCATGAGTACCTGTCCCAGCGGATCTGCCCA AGAGTGGGACTGGCGCAATGTGGATGGTGTCAACTATGCCAGCATACCCGGAACCAGC ACATCCCCAATACTGCGGCTCCTGCTGGGCCACGCCAGCACCAGCGCTATGGCGGATC GGATCAACATCAAGAGGAAGGGAGCGTGGCCCTCCACCCTCCTGTCCGTGCAGAACGTCA TCGACTGCGGTAACGCTGGCTCCTGTGAAGGGGTAAAGACTGTCCGTGTGGACTACG CCCACCAGCACGGCATCCCTGACGAGACCTGCAACAACCTACCAGGCCAAGGACTAGGAG TGTNGACAAGTTAACCAATGTGGGACATGCAATGAATCAAAGAGTGCCACGCCATCCG GAACTACCCTCTGGNAGGGTGGGAGACTACGGCTCCCTCTCTGGGAGNGAANAAGTAT GATGGCAGAAATCTACGCACATGGTCCCATCAGCTGTGGCATAATGGCAACANAAAGACT GGCTAACTACACCTGGAGCATCTATGCCGATACCAGGACACACAAATAGCCCATGTCGT TCCGGTTTGGGGTGGGCATCATGTGGGCACTAGACCTCCTTGATGCCCGATCCTAGG GGC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001336 unedited</p> <pre>AACTGGGGCTCTAACACCCCTCATCACGTGGTTCGATTAACCCGCAACTCCTCCCT CCCTCTTTCCCTTGATTCTAAAGTGACATAACCATGGTGATGAGTCTGAACTCTTTCAC CTCTTAAATGCCATATTATTGCCACAGTTGCCAAATACAAAATATCATGTCCTCTGCTG AAGAAGACTGAGTCCCATCGTTTCCTGAGTTGTTGTATTTCTCGCCATGTGGCTGAC TGATCATTGTGAGGCAGAGCTATGCTGTGCAAGTGTCATAAGTCATCCCACTTTCAACT CTCAGGAACACTCGCAGCCAGTACCACGCTGTCCTCGACATCCAATATTGATAGCCACCC CAGTTCCTGCCAGCCAGCCTGGCACACGTATCCATAGGATCCCCTCTTGTGATGGGTGAC CGTGCCTTTTCTAAACTGCGCTTCTAGTGACATGACCTTATACGATGGGGTCCCAAAAT GTACGGTGTTCCTCGATGGCAAGGATGTATCTGGCGCACTTACCAATCCTTATAAGTTCT GTTCAAAGATATTCTAAAAGCATAAATAGCAACATGGGTAAACCCCTGAGTTCGGAAAAT CAAGTAAAGAATGCTATAAATAGAAGACCAGACCAACCAAAAAACGAAAAAGGATCAT TAAAACACAAACCTAGAAACACAGCAAGAATAACCAACCGTAATTTCAACCAATCTATC AAGCGACACTAAGACCGAAGACGAATGAGGACCAATAAGAGAAAAATAGAGGCGATCGG TGAGTTTCCACTAAATATAAAATGTAGCACTAATTACTCGCGTAACTTCGAAAAGGACGC CAACAACCTATCAGCTGAATAAAAATACTATGAATATTGTTGAGGTGAAGCACATTTCGAT ATGATAACCTGTAGTAATATCACGGTACCTTAGATACAGATCTTATGATAACCGGCGAAT CAATAAGTATATCTATAAGATGGTGGGACATGACGCACCCC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001336
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).
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_001336.2](#), [NP_001327.2](#)

RefSeq Size: 1501 bp

RefSeq ORF: 912 bp

Locus ID: 1522

UniProt ID: [Q9UBR2](#)

Cytogenetics: 20q13.32

Domains: Pept_C1

Protein Families: Druggable Genome, Protease

Protein Pathways: Lysosome

Gene Summary: The protein encoded by this gene is a lysosomal cysteine proteinase and member of the peptidase C1 family. It exhibits both carboxy-monopeptidase and carboxy-dipeptidase activities. The encoded protein has also been known as cathepsin X and cathepsin P. This gene is expressed ubiquitously in cancer cell lines and primary tumors and, like other members of this family, may be involved in tumorigenesis. [provided by RefSeq, Oct 2008]