

#### OriGene Technologies, Inc.

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# Product datasheet for PH308341

### Cathepsin Z (CTSZ) (NM\_001336) Human Mass Spec Standard

### **Product data:**

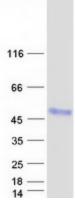
Description:CTSZ MS Standard C13 and N15-labeled recombinant protein (NP_001327)Species:HumanExpression Host:HEK293Expression cDNA Cloop or AA Sequence:RC208341Predicted MW:33 y bDaProtein Sequence:NRC3C08341 protein sequence Red-Cloning site Green-Tags(s)MRRGPGWRPLLLLVLLAGAAQGGLYFRRGOTCYRPLERDGLAPLGRSTYPRPHEYLSPADLPKSWDWRN VOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCCWAHASTSAMORTINTKRKGAWESTLISVGNUTOGCNAGSCEGGNDLSV WOGWVASTTRNQHIPOYCSCWAHASTRNDUTOGUASSCAGREKMAGITSTSTPRTATECAMCCALCAMCCALCAMCCALTATELLAVITGINA GUAGITAGECAMCCALCAMCCALSoma Constrained by microplate BCA methodCAMCCALListeine ConstraineStama Constraine districter	Product Type:	Mass Spec Standards
Expression Host:HEK293Expression cDNA CloneRc208341Predicted MW:33.9 kDaPredicted MW:Rc208341 protein sequence Red=Cloning site Green=Tags(s)Protein Sequence:Rc208341 protein sequence Red=Cloning site Green=Tags(s)WRROPOWRPLLLVLLAGAAQGCLYRRGQCLAPLCGSTYPRPHEYLSPADLPKSWDWRAWS VDYAHOHEIPDETCNNVQAKDQECDKFNQCGTCNEFKECHAIRNYTLWRVGVGSLSGREKMMAEIYANG PISCGIMATERLANYTGGTVAEVQDTTYINHVVSVAGWGISDGTEYWIVRNSWGEPWGERGWLRIVTSTY KDGKGARYNLAIEEHCTFGDPIVTag:CMyc/DDKPrity:>80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:>0.05 µg/µL as determined by microplate BCA methodIdeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:>100 mit from receipt of products under proper storage and handling conditionsForage:Na Coole A00°C. Avoid repeated freeze-thaw cycles.Storage:Na Dol 327RefSeq NE:909RefSeq ORF:905Synonyms:CTSX	Description:	CTSZ MS Standard C13 and N15-labeled recombinant protein (NP_001327)
Expression cDNA CloomRc208341Predicted MW:33.9 kDaProtein Sequence:Rc208341 protein sequence Red=Cloning site Green=Tags(s)MARRGPGWRPLLLLVLLAGAAQGGLYFRRGQTCYRPLRGDGLAPLGRSTYPRPHEYLSPADLPKSWDWRN VDGWVASTIRNOHIPQYCGSCWAHASTSAHADRINIKRKGAWPSTLLSVQWTDCONAGSCEGGNDLSV WDVAAUGGIPDETCNNYQAKDQECDKFNQCGTCNEFKECHAIRNYTLWRVDQJGSLSGREKMAEIYANG PISCGIMATERLAVITGJYAEVQDTYVINFWSAGWGISDGTEWIVRNSGEPWGERGWLRIVTSTY KDGKGARYNLAIEEHCTFGDPIVTag:C-Myc/DDKTag:C-Myc/DDKPurity:S0% as determined by SDS-PAGE and Coomassie blue stainingConcentration:0.05 µg/µL as determined by microplate BCA methodBuffer:0.05 µg/µL as determined by microplate BCA methodStorage:Store at -80°C Avoid repeated freeze-thaw cycles.Storage:Store at -80°C Avoid repeated freeze-thaw cycles.Stability:Stable for 3 months from receipt of products under proper storage and handling conditions.RefSeq Size:1517RefSeq ORF:09Stonoms:CTSX	Species:	Human
or AA Sequence:Predicted MW:3.3 kDaProtein Sequence: Red=Cloning site Green=Tags(s)MARRGPGWRPLLLLVLLAGAAQGGLYFRRGQTCYRPLRGDGLAPLGRSTYPRPHEYLSPADLPKSWDWRN VDGVNYASTIRNQHIPQYCGSCWAHASTSAMDRINIKRKGAMPSTLLSVQNVIDGCNAGSCEGRDDLSV WDVAHQGIPDETCNNYQAKDQECDKFNQGCTCKEFKECHAINYTLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNQGTCYRPLRGDTAPLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNQGTCYRPLRGDTAPLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNQGTCYRPLRGDTAPLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNQGTONEFKECHAINYTLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNQGTONEFKECHAINYTLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNQGTONEFKECHAINYTLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNQGTONEFKECHAINYTLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNQGTONEFKECHAINYTLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNQGTONEFKECHAINYTLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNQGTONEFKECHAINYTLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNQGTONEFKECHAINYTLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNGGTONEFKECHAINYTLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNGGTONEFKECHAINYTLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYQAKDQECDKFNGGTONEFKECHAINYTLWRVGDYGSLSGREKMMAEIYANG DYSAHQHGIPDETCNNYLARUGGISDETYWIVRNSGEPWGERGWLRIVTSTY DYSAHQHGIPDETCNNYLARUGGISDETYWIVRNSGEPWGERGWLRIVTSTY DYSAHQHGIPDETCNNYLARUGGISDETYWIVRNSGEPWGERGWLRIVTSTY DYSAHQHGIPDETCNNYLARUGGISDETYWIVRNSGEPWGERGWLRIVTSTY DYSAHQHGIPDETCNNYLARUGGISDETYWIVRNSGEPWGERGWLRIVTSTY DYSAHQHGIPDETCNNYLARUGGISDETYWIVRNSGEPWGERGWLRIVTSTY DYSAHQHGIPDETCNNYLARUGGISDETYWIVRNSGEPWGERGWLRIVTSTY DYSAHQHGIPDETCNNYLARUGGISDETYWIVRNSGEPWGERGWLRIVTSTY DYSAHQHGIPDETCNNYLARUGGISDETYWIVRNSGEPWGERGWLRIVTSTY DYSAHQHGIPDETST DYSAHQHGIPDETCNNYLARUGGISDETYWIVRNSGEPWGERGWLRIVTSTY DYSAHQHGIPDETCNNYLARUGGISDETYWIVRNSGEPWGERGWLRIVTSTY	Expression Host:	HEK293
Protein Sequence:SRC208341 protein sequence Red=Cloning site Green=Tags(s)MARRGPGWRPLLLLVLAGAAQGGLYFRRGTCYRPLRGDGLAPLGRSTYPRPHEYLSPADLPKSWDWRN VDGVNYASTTRNQHIPQYCGSCWAHASTSAMADRINIKRKGAWPSTLLSVQNVIDGGAGSCEGGNDLSV WDVAHQHGTPDETCNNYQAKDQECDKFNQCGTCNEFKECHAIRNYTLWRVGDYGSLSGREKMMAEIYANG PJSCGIAATERLANYTGGTVEYQTTYNHVVSVAGWGISDGTEYWIVRNSWGEPWGERGWLRIVTSTY KDGGARYULAIEEHCTGDPIVTag:C-Myc/DDKPurity:S80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:0.05 µg/µL as determined by microplate BCA methodStorage:Stora et -80°C. Avoid repeated freeze-thaw cycles.Storage:Stora et -80°C. Avoid repeated freeze-thaw cycles.RefSeq Size:NP_001327RefSeq ORF:909Synonyms:CTSX	•	RC208341
Red=Cloning site Green=Tags(s)MARRGPGWRPLLLLVLLAGAAQGGLYFRRGQTCYRPLRGDGLAPLGRSTYPRPHEYLSPADLPKSWDWRN VDGVNYASITRNQHIPQYCGSCWAHASTSAMADRINIKRKGAWPSTLLSVQNVIDCGNAGSCEGGNDLSV WDYAHQHGIPDETCNNYQAKDQECDKFNQCGTCNEFKECHAIRNYTLWRVGDYGSLSGREKMMAEIYANG PISCCIMATERLANYTGGIYAEYQDTTYINHVVSVAGWGISDGTEYWIVRNSWGEPWGERGWLRIVTSTY KDGKGARYNLAIEEHCTFGDPIVTag:C-Myc/DDKPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:> 0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-LysineBuffer:25 mM Tris-HCI, 100 mM glycine, pH 7.3Storage:Store at -80°C. Avoid repeated freeze-thaw cycles.Stability:Stable for 3 months from receipt of products under proper storage and handling conditions.RefSeq Size:1517RefSeq ORF:909Synonyms:CTSX	Predicted MW:	33.9 kDa
VDGVNYASITRNQHIPQYCGSCWAHASTSAMADRINIKRKGAWPSTLLSVQNVIDCGNAGSCEGGDLSV WDVAHQHGIPDETCNNYQAKDQECDKFNQCGTCHEFKECHAIRNYTLWRVGDYGSLSGREKMMAEIYANG PISCGIMATERLANYTGGIYAEYQDTYYINHVVSVAGWGISDGTEYWIVRNSWGEPWGERGWLRIVTSTY KDGKGARYNLAIEEHCTFGDPIVTarrepLeQKLISEEDLAANDILDYKDDDDKVTag:C-Myc/DDKPurity:S0% as determined by SDS-PAGE and Coomassie blue stainingConcentration:>0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:0.5 mM Tris-HCI, 100 mM glycine, pH 7.3Storage:Store at -80°C. Avoid repeated freeze-thaw cycles.Stability:Stable for 3 months from receipt of products under proper storage and handling conditions.RefSeq Size:1517RefSeq ORF:909Synonyms:CTSX	Protein Sequence:	
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Purity:> 80% as determined by SDS-PAGE and Coomassie blue stainingPorter> 80% as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3Storage:Store at -80°C. Avoid repeated freeze-thaw cycles.Stability:Stable for 3 months from receipt of products under proper storage and handling conditions.RefSeq:NP 001327RefSeq ORF:909Synonyms:CTSX		TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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RefSeq: NP 001327   RefSeq Size: 1517   RefSeq ORF: 909   Synonyms: CTSX	Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
RefSeq Size: 1517   RefSeq ORF: 909   Synonyms: CTSX	Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq ORF:909Synonyms:CTSX	RefSeq:	<u>NP 001327</u>
Synonyms: CTSX	RefSeq Size:	1517
	RefSeq ORF:	909
1522	Synonyms:	CTSX
	Locus ID:	1522



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	Cathepsin Z (CTSZ) (NM_001336) Human Mass Spec Standard – PH308341
UniProt ID:	Q9UBR2
Cytogenetics:	20q13.32
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]
Protein Families	: Druggable Genome, Protease
Protein Pathway	<b>/s:</b> Lysosome

## **Product images:**



Coomassie blue staining of purified CTSZ protein (Cat# [TP308341]). The protein was produced from HEK293T cells transfected with CTSZ cDNA clone (Cat# [RC208341]) using MegaTran 2.0 (Cat# [TT210002]).

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