

Product datasheet for **SC323092**

CTSA (NM_001127695) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTSA (NM_001127695) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTSA
Synonyms:	GLB2; GSL; NGBE; PPCA; PPGB
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001127695, the custom clone sequence may differ by one or more nucleotides ATGATCCGAGCCGCGCCGCCGCTGTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTAGTG TCCTGGGCGTCCCGAGGCGAGGCAGCCCCGACCAGGACGAGATCCAGCGCCTCCCCGGG CTGGCCAAGCAGCCGTCTTCCGCCAGTACTCCGGCTACCTCAAAGGCTCCGGCTCCAAG CACCTCCACTACTGTTTGTGGAGTCCCAGAAGGATCCCGAGAACAGCCCTGTGGTGCTT TGGCTCAATGGGGTCCCGGCTGCAGCTCACTAGATGGGCTCCTCACAGAGCATGGCCCC TTCCTGGTCCAGCCAGATGGTGCACCCTGGAGTACAACCCTATTCTTGAATCTGATT GCCAATGTGTTATACCTGGAGTCCCAGCTGGGGTGGGCTTCTCCTACTCCGATGACAAG TTTTATGCAACTAATGACTGAGGTCGCCAGAGCAATTTTGAAGCCCTTCAAGATTTT TTCCGCTCTTTCCGGAGTACAAGAACAACAACTTTTCTGACCGGGGAGAGCTATGCT GGCATCTACATCCCCACCTGGCCGTGCTGGTCATGCAGGATCCCAGCATGAACCTTCAG GGGCTGGCTGTGGGCAATGGACTCTCCTCCTATGAGCAGAATGACAACCTCCCTGGTCTAC TTTGCCTACTACCATGGCCTTCTGGGGAACAGGCTTTGGTCTTCTCCTCAGACCCACTGC TGCTCTCAAAACAAGTGAACCTCTATGACAACAAGACCTGGAATGCGTGACCAATCTT CAGGAAGTGGCCCGCATCGTGGGCAACTCTGGCCTCAACATCTACAATCTCTATGCCCGG TGTGCTGGAGGGGTGCCAGCCATTTTAGGTATGAGAAGGACACTGTTGTGGTCCAGGAT TTGGGCAACATCTCACTCGCCTGCCACTCAAGCGGATGTGGCATCAGGCACTGCTGCGC TCAGGGGATAAAGTGCGCATGGACCCCCCTGCACCAACAACAGCTGCTTCCACCTAC CTCAACAACCCGTACGTGCGGAAGGCCCTCAACATCCCGGAGCAGCTGCCACAATGGGAC ATGTGCAACTTTCTGGTAACTTACAGTACCGCCGTCTTACCGAAGCATGAACTCCCAG TATCTGAAGCTGCTTAGCTCACAGAAATACCAGATCCTATTATATAATGGAGATGTAGAC ATGGCCTGCAATTTTATGGGGATGAGTGGTTTGTGGATTCCCTCAACCAGAAGATGGAG GTGCAGCGCCGGCCCTGGTTAGTGAAGTACGGGGACAGCGGGGAGCAGATTGCCGGCTTC GTGAAGGAGTTTCCCACATCGCCTTTCTCACGATCAAGGGCGCCGGCCACATGGTTCCC ACCGACAAGCCCTCGCTGCCTTACCATGTTCTCCCGCTTCTGAAACAAGCAGCCATAC
Restriction Sites:	Please inquire
ACCN:	NM_001127695



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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_001127695.1</u> , <u>NP_001121167.1</u>
RefSeq Size:	2300 bp
RefSeq ORF:	1443 bp
Locus ID:	5476
UniProt ID:	<u>P10619</u>
Cytogenetics:	20q13.12
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Renin-angiotensin system
Gene Summary:	<p>This gene encodes a member of the peptidase S10 family of serine carboxypeptidases. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate two chains that comprise the heterodimeric active enzyme. This enzyme possesses deamidase, esterase and carboxypeptidase activities and acts as a scaffold in the lysosomal multienzyme complex. Mutations in this gene are associated with galactosialidosis. [provided by RefSeq, Nov 2015]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon compared to variant 1. The encoded isoform (b) has a shorter N-terminus compared to isoform a.</p>