

Product datasheet for **SC317835**

CTSA (NM_000308) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CTSA (NM_000308) Human Untagged Clone
Tag: Tag Free
Symbol: CTSA
Synonyms: GLB2; GSL; NGBE; PPCA; PPGB
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000308 edited
 ATGACTTCCAGTCCCCGGCGCCTCCTGGAGAGCAAGGACGCGGGGAGCAGAGATGATC
 CGAGCCGCGCCGCCCGCTGTTCTGCTGCTGCTGCTGCTGCTAGTGTCTGGGCG
 TCCCGAGGCGAGGCAGCCCCGACCAGGACGAGATCCAGCGCCTCCCCGGGCTGGCCAAG
 CAGCCGCTTTCCGCCAGTACTCCGGCTACCTCAAAGGCTCCGGCTCCAAGCACCTCCAC
 TACTGGTTTGTGGAGTCCAGAAGGATCCCAGAACAGCCCTGTGGTGTCTTGGCTCAAT
 GGGGGTCCCGGCTGCAGCTCACTAGATGGGCTCCTCACAGAGCATGGCCCTTCTGGTC
 CAGCCAGATGGTGTACCCTGGAGTACAACCCCTATTCTTGAATCTGATTGCCAATGTG
 TTATACCTGGAGTCCCCAGCTGGGGTGGGCTTCTCCTACTCCGATGACAAGTTTTATGCA
 ACTAATGACACTGAGTCCAGCAATTTTGGAGCCCTTCAAGATTTCTTCCGCCTC
 TTTCCGGAGTACAAGAACAACAACTTTTCTGACCGGGGAGAGCTATGCTGGCATCTAC
 ATCCCCACCCTGGCCGTGCTGGTCATGCAGGATCCCAGCATGAACCTTACGGGGCTGGCT
 GTGGGCAATGGACTCTCCTCCTATGAGCAGAATGACAACCTCCCTGGTCTACTTTGCCTAC
 TACCATGGCCTTCTGGGGAACAGGCTTTGGTCTTCTCCTCAGACCCACTGCTGCTCTCAA
 AACAAAGTGAACCTTCTATGACAACAAAGACCTGGAATGCGTGACCAATCTTACAGGAAGTG
 GCCCGCATCGTGGGCAACTCTGGCCTCAACATCTACAATCTATGCCCGTGTGCTGGA
 GGGGTGCCAGCCATTTTAGGTATGAGAAGGACACTGTTGTGGTCCAGGATTTGGGCAAC
 ATCTTCACTCGCTGCCACTCAAGCGGATGTGGCATCAGGCACTGCTGCGCTCAGGGGAT
 AAAGTGGCATGGACCCCCCTGCACCAACAACAGCTGCTTCCACCTACCTCAACAAC
 CCGTACGTGCGGAAGGCCCTCAACATCCCGGAGCAGCTGCCACAATGGGACATGTGCAAC
 TTTCTGGTAAACTTACAGTACCGCGTCTCTACGAAGCATGAACTCCCAGTATCTGAAG
 CTGCTTAGCTCACAGAAATACCAGATCCTATTATATAATGGAGATGTAGACATGGCCTGC
 AATTTTATGGGGATGAGTGGTTTGTGGATTCCCTCAACCAGAAGATGGAGGTGCAGCGC
 CGGCCCTGGTTAGTGAAGTACGGGGACAGCGGGGAGCAGATTGCCGGCTTCGTGAAGGAG
 TTCTCCACATCGCTTCTCACGATCAAGGGCGCCGCCACATGGTTCCCACCGACAAG
 CCCCTCGTGCCTTACCATGTTCTCCCGTTCCTGAACAAGCAGCCATACTGA



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Restriction Sites:	Please inquire
ACCN:	NM_000308
Insert Size:	1500 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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:	NM_000308.2 , NP_000299.2
RefSeq Size:	2254 bp
RefSeq ORF:	1497 bp
Locus ID:	5476
UniProt ID:	P10619
Cytogenetics:	20q13.12
Domains:	serine_carbpept
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Renin-angiotensin system

Gene Summary:

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]
Transcript Variant: This variant (1) encodes the longest isoform (a). This isoform (a) may undergo proteolytic processing similar to isoform (b).