

Product datasheet for **RG230152**

CTSA (NM_001167594) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTSA (NM_001167594) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CTSA
Synonyms:	GLB2; GSL; NGBE; PPCA; PPGB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230152 representing NM_001167594
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTTCCAGTCCCCGGGCGCCTCCTGGAGAGCAAGGACGCGGGGAGCAGAGATGATCCGAGCCGCGC
 CGCCGCCGCTGTTCTGCTGCTGCTGCTGCTGCTGCTAGTGTCTGGCGTCCCGAGGCGAGGCAAGC
 CCCCAGCCAGGACGAGATCCAGCGCCTCCCCGGCTGGCCAAGCAGCCGTCCTTCCGCCAGTACTCCGGC
 TACCTCAAAGGCTCCGGCTCCAAGCACCTCCACTACTGGTTTGTGGAGTCCCAGAAGGATCCCGAGAACA
 GCCCTGTGGTGTCTTGGCTCAATGGGGTCCCGGCTGCAGCTCACTAGATGGGCTCCTCACAGAGCATGG
 CCCCTTCTGATTGCCAATGTGTATACCTGGAGTCCCCAGCTGGGGTGGGCTTCTCTACTCCGATGAC
 AAGTTTTATGCAACTAATGACACTGAGGTGCCCCAGAGCAATTTTGGAGCCCTTCAAGATTTCTCCGCC
 TCTTCCGGAGTACAAGAACAACAACTTTTCTGACCGGGGAGAGCTATGCTGGCATCTACATCCCCAC
 CCTGGCCGTGCTGGTATGCAGGATCCCAGCATGAACCTTCAGGGGCTGGCTGTGGCAATGGACTCTCC
 TCCTATGAGCAGAATGACAACTCCTGGTCTACTTTGCCTACTACCATGGCCTTCTGGGGAACAGGCTTT
 GGTCTTCTCTCCAGACCACTGTGCTCTCAAAACAAGTGAACCTTCTATGACAACAAAGACCTGGAATG
 CGTGACCAATCTTCAGGAAGTGGCCGCATCGTGGCAACTCTGGCCTCAACATCTACAATCTCTATGCC
 CCGTGTGCTGGAGGGTGGCCAGCCATTTAGGTATGAGAAGGACACTGTTGTGGTCCAGGATTTGGGCA
 ACATCTTCACTCGCTGCCACTCAAGCGGATGTGGCATCAGGCACTGCTGCGCTCAGGGGATAAAGTGGC
 CATGGACCCCCCTGCACCAACAACAGCTGCTTCCACTACCTCAACAACCCGTACGTGCGGAAGGCC
 CTC AACATCCCGAGCAGCTGCCACAATGGGACATGTGCAACTTCTGGTAAACTACAGTACCGCCGTC
 TCTACCGAAGCATGAACCTCCAGTATCTGAAGCTGCTTAGCTCACAGAAATACCAGATCCTATTATATA
 TGGAGATGTAGACATGGCCTGCAATTTTCATGGGGATGAGTGGTTTGTGGATTCCCTCAACCAGAAGATG
 GAGGTGCAGCGCCGCCCTGTTAGTGAAGTACGGGGACAGCGGGGAGCAGATTGCCGGCTTCGTGAAGG
 AGTTCTCCACATCGCCTTCTCACGATCAAGGGCGCCGACATGGTCCACCGACAAGCCCTCGC
 TGCTTACCATGTTCTCCCGCTTCTGAACAAGCAGCCATAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230152 representing NM_001167594
 Red=Cloning site Green=Tags(s)

MTSSPRAPPGEQGRGAEMIRAAPPPLLLLLLLLLLVSWASRGEAAPDQDEIQRLPGLAKQPSFRQYSG
 YLKGSGSKHLHYWFVESQKDPENSPVVLWLNNGPGCSSLDGLL TEHGPFLLIANVLYLESPAGVGFYSDD
 KFYATNDTEVAQSNFEALQDFRFLFPEYKNNKFLFTGESYAGIYIPTLAVLVMQDPSMNLQGLAVGNLS
 SYEQNDNSLVYFAYYHGLLGNRLWSSLQTHCCSQNKCNFYDNKDLECVTNLQEVARIVGNSGLNIYNLYA
 PCAGGVPSHFRYEKDTVVVQDLGNIFTRLPLKRMWHQALLRSGDKVRMDPPCTNTTAASTYLNPNYVRKA
 LNIPEQLPQWDMCNFLVNLQYRRLYRSMNSQYLKLLSSQKYQILLYNGDVDMACNFMGDEWFVDSLNLQKM
 EVQRRPWLVKYGDSGEQIAGFVKEFSHIAFLTIKAGHMVPTDKPLAAFTMFSRFLNKQPY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001167594

ORF Size: 1443 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001167594.2](#), [NP_001161066.1](#)

RefSeq Size: 2208 bp

RefSeq ORF: 1446 bp

Locus ID: 5476

UniProt ID: [P10619](#)

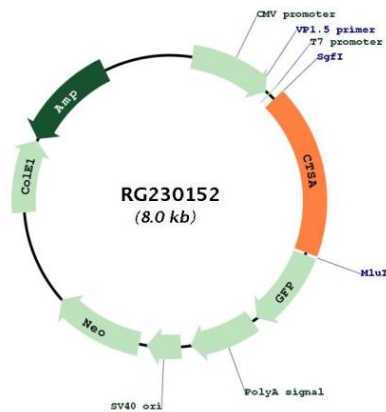
Cytogenetics: 20q13.12

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]

Product images:



Circular map for RG230152