

Product datasheet for **RG206040**

CTNS (NM_001031681) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTNS (NM_001031681) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CTNS
Synonyms:	CTNS-LSB; PQLC4; SLC66A4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206040 representing NM_001031681 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATAAGGAATTGGCTGACTATTTTTATCCTTTTTCCCTGAAGCTCGTAGAGAAATGTGAGTCAAGCG
TCAGCCTCACTGTTCTCTCTGTCGTAAGCTGGAGAACGGCAGCTCGACCAACGTCAGCCTCACCTGCG
GCCACCTAAATGCAACCCTGGTATCACTTTTGAATCACATTCGTTCCAAAATATTACTATCCTT
GAGCTCCCGATGAAGTTGTGGTGCCTCTGGAGTGACAACTCCTCTTTCAAGTGACATCTCAAATG
TTGGACAATTACTGTTTATCTACATGGAATCACTCCAATCAGACCGGCCGAGGATACGCTTTCTTGT
GATCCGCAGCAGCGCCATTAGCATCATAAACCAGGTGATTGGCTGGATCTACTTTGTGGCCTGGTCCATC
TCCTTCTACCCTCAGGTGATCATGAATTGGAGGCGGAAAAGTGTCATTGGTCTGAGCTTCGACTTCGTGG
CTCTGAACCTGACAGGCTTCGTGGCCTACAGTGTATTCAACATCGGCCTCCTCTGGGTGCCCTACATCAA
GGAGCAGTTTCTCCTCAAATACCCCAACGGAGTGAACCCCGTGAACAGCAACGACGCTTCTTTCAGCCTG
CACGCGTTGTCTCACGCTGATCATCATCGTGCAGTGCCTGTATGAGCGCGGTGGCCAGCGCGTGT
CCTGGCCTGCCATCGGCTTCCTGGTGCCTCGCGTGGCTCTTCGCATTTGTCACCATGATCGTGGCTGCAGT
GGGAGTGATCACGTGGCTGCAGTTTCTCTCTGCTTCTCTACATCAAGCTCGCAGTCACGCTGGTCAAG
TATTTTCCACAGGCTACATGAACCTTTACTACAAAAGCACTGAGGGCTGGAGCATTGGCAACGTGCTCC
TGGACTTCACCGGGGACGCTTCAGCCTCTGCAGATGTTCTCAGTCTACAACAACGACCAAGTGGAC
GCTGATCTTCGGAGACCAACCAAGTTTGGACTCGGGGCTTCTCCATCGTCTTCGACGTCGTCTTCTTC
ATCCAGCACTTCTGTTGTACAGAAAGAGACCGGGGCTTCAGGCAGCGCACAGGCTCTGGCAGCCGTC
TCAGGCAGGACTGGGCACCAAGCTTGCAGCCGAAGGCCTTGCCCCAACTACCAGCGTTTCTGCAAGCAG
CTTGAAGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >RG206040 representing NM_001031681
 Red=Cloning site Green=Tags(s)

MIRNWLTIIFLPLKLVKCESSVSLTVPPVVKLENGSSTNVSLTLRPPLNATLVITFEITFRSKNITIL
 ELPDEVVPPGVTNSSFQVTSQNVGQLTVYHLHGNHSNQTGPRIRFLVIRSSAISIIINQVIGWIYFVAWSI
 SFYPQVIMNWRKSVIGLSFDFVALNLGTFVAYSVFNIGLLWVPYIKEQFLLKYPNGVNPVNSNDVFFSL
 HAVVLTLLIIIVQCCLYERGGQRVSWPAIGFLVLAWLFAFVTMIVA AVGVITWLQFLFCFSYIKLAVTLVK
 YFPQAYMNFYKSTEGWSIGNVLLDFTGGSFSLQMFLLQSYNNQWTLIFGDPTKFGLVFIVFDVVFV
 IQHFCLYRKRPLQAARTGSGSRLRQDWAPSLQPKALPQTTSVSASSLKG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001031681

ORF Size: 1200 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_001031681.1](#)

RefSeq Size: 4042 bp

RefSeq ORF: 1203 bp

Locus ID: 1497

UniProt ID: [O60931](#)

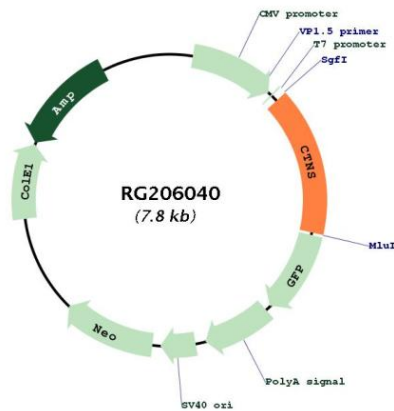
Cytogenetics: 17p13.2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Lysosome

Gene Summary: This gene encodes a seven-transmembrane domain protein that functions to transport cystine out of lysosomes. Its activity is driven by the H⁺ electrochemical gradient of the lysosomal membrane. Mutations in this gene cause cystinosis, a lysosomal storage disorder. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2009]

Product images:



Circular map for RG206040