

Product datasheet for **MC203663**

Ctns (NM_031251) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctns (NM_031251) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ctns
Synonyms:	A1195360; AW049661
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC005479
 CTCAGAGAGTCCCTTACACTCCTAAGCGGTTCTGGTGGCAGATTGTTGCTTTTGGTGAGGTCTGTCCACC
 AAGCCTGGGAAGCTGTCAGTTCTGAGAAGTCAGAGACCATGAGGAGGAATTGGCTGCTTATTTTGACCC
 TTTTCTCTTGATGTTTCATAGAGAAGTATGAGTCAACTGTCAGTCTCACTGCTCTCCACCGTGAAGCTG
 GAAAATGGCAGTTCAACCAACGTCGACATCACCCCTGGGCATCCACTAAATTCGACCTTGGTGATCACTT
 TTGAAGTCACGTTTCGCTCAAAAAATCTGACTATTGTGGAGCTTCTGATGAAGTTATAGTGCCTCGCGG
 AGAGAAAAATGCCTCTTTCCAAGTGACTTCTCAAAATATTGGACAAGTGACTGTTTTTTCGCATGGAAAT
 CATTCCAACAGACCTGCCCCAGGATCCGGTCTTGGTGATACACAGCAGAATCGTTAGCATCATAAACC
 AGGTGATTGGCTGGATCTACTTCATGGCGTGGTCTGTCTCCTTTTACCCACAAGTGATCCAGAAGTGGAG
 ACGGAAAAGTGTATTGGTCTCAGCTTTGATTTCTTGGCCCTGAACTTGACGGGCTTCGTGGCCTACAGT
 GTTTTCAACATCGGTCTTTTGTGGGTGCCCTATATCCAGGAGGAGTTTCTCCTCAAATACCCCAATGGTG
 TGAACCCCGTCGACAGTAATGATGCCTTTCAGCTTGCATGCTGCGCCCTCACCTGATTGTCATCCT
 GCAGTGTGCCTGTATGAGCGAGGCAACCAGCGTGTGTCATGGCCCTCCATTGGCTTCTGGTACTCGCA
 TGGCTCTTTGTCCTAGTACCATGATTGGCTGCAGTCGGTATCACCACATGGTCCAGTTCCTCTTCT
 GCTTCTCTACATCAAGCTCATCATCACTGATCAAGTATTTCCACAGGCCTATATGAACTTCTACTA
 CAAAAGCACCAAGGGCTGGAGCATTGGCGGTGTGCTCCTCGATTTTACAGGGGGCAGCTTTCAGCCTCCTC
 CAGATGTTCTCCAGTCTTACAATAATGACCAATGGACATTGATCTTCGGAGACCCAAACCAAGTTCGGAC
 TTGGCGTCTTACCATCTTCTTTGATGTTGCTTCTTTCATCCAGCACTTCTACTTGTACAGAAAAGAAACC
 AGGGTACGACCAGTTGAATTAGAATCCAGAGACCCAGTGTAAACAGCCAGGGCCTGGGCCCTGGTAGGAA
 AGGTTGTATCCAGCAAAGGCCAGAGAAGCAGCTGGCACACAGGGCTGGAACAGTATGCCAACAAGAGCAG
 CATTCTCTTCTCAAGAATCAAAAGCCTTAAGCTCAGCTGCCTGCTTTCATCCAGGCCTCCTGAAACC
 ATGGAGGACTCCCTCTCTGGAACAGACACCTGACTCTGCTTGGAGTCAAAGCTAGACTTGGAGCAGTCT
 CTCCCAACTTTAAAGCTCCAGCCCTCTGCTGGAGGCACCCAGCCCTCCTGGCTTTGATATACCATCTCT
 CTCTCTTTAAGGCTTCAGGCAGCACACAGGTCCAGACAGCCATCCAGCCAGAAGTGGGCATCATGTT
 TGCAGCTGATGACCTTGCCCAAAGCACCAATATTTCTGGGAGCAGCTTGAAGGCTAACCTTGCAACTG
 GGAGAGCCAAGGGTGCTTTGTCCACCACAGTGTTCACAGAGACCAAGCAGCCAGGTGCTGTGGCCCATG
 GACTTGAAGGTGCTGATGCTGGTGGTGGAGGGGAGAGAACTGTGGGATCAAGCTTTGGGGTCTTGTCTCT
 CGGGGCCACTTTCCTTATGCTCATTCTATATAACGCTGCTCTAGTAACTGCAGAACAAAGAGGCCAGGCC
 AGTGCCTGGTAAAGTATATTTCTGATCCCTGAGGTGCCTGCCAGATTGGTCTGAAGTGGACCCGTACCTG
 CTGCCCTCCGGATCTTTGCACACAAAGATACCACAGTACCTTTTTTATTTTTATTTTACCTCAAGGTAT
 ATTTTAAATGGCTTTTCTTTTGCCTCTTTCCTACCTCCACTTCTGAGAGTGGATGGAGCACCATCT
 TGAGTCCCAGACTCCCCGTAACCTTACACCTATGGAGCAGGTAAGTACTCAGGACCAGCTGTGCCTTAGAAG
 CCCATCAGTCAATCAGTAAGCTGCCTGGATGGGAAGGGAGGCCTCCTTCCCAGCCCCAGACTGAGACT
 CCAACTCCTCAGCTGTTGAGGAGCCTCAGCGCACAGGGGCTTACCTCCTATGTTGCTTGTGGTCCCACCC
 TGATCCCACACCTCCTTCTTCTCATCCATTATTTCTTCTACGCCAGGTAGGGAAGGAACCAGGGTGTG
 CCTTGAGTTTATCAATCTGTTTCTTTTGTCTTATAAGACGAATATTGAGGGATCCTTGTATTTCTTTC
 TTTTGTATTTTTTCTTGTTCGGTTTTTCTTTTGTGGCGTGTGTGTGTCTTAATTAAGGTTGGTTT
 GTTTCTTAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_031251

Insert Size: 1104 bp

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).

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: [BC005479](#), [AAH05479](#)

RefSeq Size: 2543 bp

RefSeq ORF: 1104 bp

Locus ID: 83429

UniProt ID: [P57757](#)

Cytogenetics: 11 B4

Gene Summary: Cystine/H(+) symporter thought to transport cystine out of lysosomes. Plays an important role in melanin synthesis, possibly by preventing melanosome acidification and subsequent degradation of tyrosinase TYR.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.