

## Product datasheet for **MC219254**

### Ctps2 (NM\_018737) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctps2 (NM_018737) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ctps2
Synonyms:	A830031M15Rik; AI326475; Ctpsh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219254 representing NM\_018737  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGTATATCCTGGTTACTGGTGGGGTCATCTCAGGCATTGGTAAAGGGATTATCGCCAGCAGCATTG  
 GGACTATTCTCAAGTCATGTGGACTCCGAGTTACTGCCATCAAAATTGACCCCTATATTAACATCGATGC  
 TGGAACTTTCTCACCTTATGAACATGGTGAAGATTTGTTTTAAATGATGGTGGAGAAGTTGATTTGGAC  
 CTTGGAACTATGAAAGATTCTTGGACATTAATCTCTATAAAGACAACAACATCACCAGTGGGAAGATAT  
 ATCAGCATGTGATCAACAAGAGAGGGCGCGGTGATTACCTGGGAAAACTGTTCAAGTTGCCCCATAT  
 TACTGATGCTATCCAGGAGTGGTTATGAATCAAGCCAAGGTGTCTGTGGATGGCAATAAGGAAGATCCC  
 CAGATATGTGTTATTGAGCTGGGAGGCACCATTGGAGACATTGAAGGAATGGCATTGTGGAAGCATTCC  
 GACAGTCCAGTTTAAAGCCAAGAAAGAGAATTTCTATAATTCATGTCAGCCTGTGCCACAGCCAG  
 TGCTACTGGAGAACAAAAACCAAGCCACGCAAAACAGTGTCCGTGCGCTGAGAGGGTTGGCTGTCT  
 CCGGATCTGATCGTCTGCCGTAGTTCAACCCCCATTGAGATGGCTGTGAAGGAGAAGATTTCTATGTTTT  
 GTCACGTGAACCCCTGAACAGGTCATCTGTATCCATGATGTTTTCTCCATCTACCGAGTGCCTCTCCTTTT  
 GGAGGAGCAAGGTGTGGTTAAATATTTTCAAGAGAGATTGGGCCTGCCATCAATGATTGTTCAAGTAAT  
 TTGCTTTTCAAGTGGAAAGCCATGGCTGACAGGTATGAGAGATTGCAGAAAAATAGTTCCATAGCCCTGG  
 TTGGTAAATACACCAAACCTCAGGACTGCTACGCCTCTGTGTTCAAAGCACTGGAACACTCAGCCTTGGC  
 CATCAACCACAAGTTGAACCTGATGTACATAGACTCCATTGATCTGGAGCCAGTCACCAAAGCCGAGGAT  
 CCTGTGAAATTCATGAAGCTTGGCAGAAGCTGTGCTTAGCTGATGGGATTTCTGTGCCCGGAGGGTTTG  
 GAATCCGAGGAACATTGGGAAAACCTCAGGCAATTTGTTGGCAAGGACAAGAAGATTTCCATTTCTGGG  
 AATTTGCCTTGGGATGCAACTGGCAGTATTGAGTTTGAAGAAAACCTGCCTGAACCTGAAAGATGCTAAT  
 TCTACAGAATTTGAGCCAAACACTCCAGTCCCATTGGTAATTGACATGCCTGAACACAACCTGGCGATT  
 TGGGAGGAACAATGAGACTGGGGTTAAGACGAACTGTTTTCACAACCTGAAAACCTCCATACTGAAGAAGCT  
 TTATGGTGACGTTCCCTTACATAGAAGAAAGACACCGACATCGCTATGAGGTGAACCCTAACCTGATCAAC  
 CAATTTGAGAATAAAGACCTTTGTTTTGTCGGTGAGGATGTAGATGGGAAGAGGATGGAAATTTGTTGAGT  
 TGACAAGTCATCCATATTCATTGGTGTCCAGTCCATCCTGAGTTTTCTCTAGGCCAATGAAGCCTTC  
 CCCTCCGTACCTGGGGCTTACTTGCAGCAACGGGGAATCTGAATGCCATCTGCAGCAGATGAACAAG  
 CTGCCATACAGTGATGGATACAGTGATGCCAGCGATGACAGCTTCCAGAGGCAAAGCTTGCTGAAGTGG  
 ATCTCAACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_018737

**Insert Size:** 1761 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:** [NM\\_018737.5](#), [NP\\_061207.1](#)

**RefSeq Size:** 5606 bp

**RefSeq ORF:** 1761 bp

**Locus ID:** 55936

**UniProt ID:** [P70303](#)

**Cytogenetics:** X F4

**Gene Summary:** Catalyzes the ATP-dependent amination of UTP to CTP with either L-glutamine or ammonia as the source of nitrogen. Constitutes the rate-limiting enzyme in the synthesis of cytosine nucleotides (By similarity).[UniProtKB/Swiss-Prot Function]