

Product datasheet for **MG226587**

Ctps2 (NM_001168571) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Ctps2 (NM_001168571) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Ctps2 |
| Synonyms: | A830031M15Rik; AI326475; Ctpsh |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG226587 representing NM_001168571
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGTATATCCTGGTTACTGGTGGGGTCATCTCAGGCATTGGTAAAGGGATTATCGCCAGCAGCATTG
 GGACTATTCTCAAGTCATGTGGACTCCGAGTTACTGCCATCAAAATTGACCCCTATATTAACATCGATGC
 TGGAACTTTCTCACCTTATGAACATGGTGAAGATTTGTTTTAAATGATGGTGGAGAAGTTGATTTGGAC
 CTTGGAACTATGAAAGATTCTTGGACATTAATCTCTATAAAGACAACAACATCACCAGTGGGAAGATAT
 ATCAGCATGTGATCAACAAGAGAGGGCGCGGTGATTACCTGGGAAAACTGTTCAAGTTGCCCCATAT
 TACTGATGCTATCCAGGAGTGGTTATGAATCAAGCCAAGGTGTCTGTGGATGGCAATAAGGAAGATCCC
 CAGATATGTGTTATTGAGCTGGGAGGCACCATTGGAGACATTGAAGGAATGGCATTGTGGAAGCATTCC
 GACAGTCCAGTTTAAAGCCAAGAAAGAGAATTTCTATAATTCATGTCAGCCTGTGCCACAGCCAG
 TGCTACTGGAGAACAAAAACCAAGCCACGCAAAACAGTGTCCGTGCGCTGAGAGGGTTGGCTTGTCT
 CCGGATCTGATCGTCTGCCGTAGTTCAACCCCATTTGAGATGGCTGTGAAGGAGAAGATTTCTATGTTTT
 GTCACGTGAACCCCTGAACAGGTCATCTGTATCCATGATGTTTTCTCCATCTACCGAGTGCCTCTCCTTTT
 GGAGGAGCAAGGTGTGGTTAAATATTTTCAAGAGAGATTGGGCCTGCCATCAATGATTGTTCAAGTAAT
 TTGCTTTTCAAGTGGAAAGCCATGGCTGACAGGTATGAGAGATTGCAGAAAAATAGTTCCATAGCCCTGG
 TTGGTAAATACACCAAACTCAGGACTGCTACGCCTCTGTGTTCAAAGCACTGGAACACTCAGCCTTGGC
 CATCAACCACAAGTTGAACCTGATGTACATAGACTCCATTGATCTGGAGCCAGTCACCAAGCCGAGGAT
 CCTGTGAAATCCATGAAGCTTGGCAGAAGCTGTGCTTAGCTGATGGGATTCTTGTGCCCGAGGGTTTG
 GAATCCGAGGAACATTGGGAAAACTCCAGGCAATTTCTGTTGGCAAGGACAAGAAGATTTCCATTTCTGGG
 AATTTGCCTTGGGATGCAACTGGCAGTGATTGAGTTTGAAGAACTGCCTGAACCTTGAAGATGCTAAT
 TCTACAGAATTTGAGCCAAACACTCCAGTCCCATTGGTAATTGACATGCCTGAACACAACCTGGCGATT
 TGGGAGGAACAATGAGACTGGGGTTAAGACGAAGTGTTCACAACTGAAAACCTCATACTGAGTCATCC
 ATATTTCAATGGTGTCCAGTTCATCCTGAGTTTTCTCTAGGCCAATGAAGCCTTCCCCTCCGTACCTG
 GGGCTCTTACTTGCAAGCAACGGGAATCTGAATGCCCATCTGCAGCAGATGAACAAGCTGCCATACAGTG
 ATGGATACAGTGATGCCAGCGATGACAGCTTCCAGAGGCAAAGCTTGTGAACCTGGATCTCAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG226587 representing NM_001168571
 Red=Cloning site Green=Tags(s)

MKYILVTGGVISIGKGIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGEVFLNDGGEVDLD
 LGNYERFLDINLYKDNNTTGKIYQHVINKERRGDYLGKTQVVPHTIDAIQEWMNQAKVSVDGNKEDP
 QICVIELGGTIGDIEGMAFVEAFRQFQFKAKKENFYNIHVSLVPQPSATGEQKTKPTQNSVRALRGLGLS
 PDLIVCRSSTPIEMAVKEKISMFCHVNPEQVICIHDVSSIYRVPLLLLEEQGVVKYFQERLGLPINDCSSN
 LLFKWKAMADRYERLQKICSIALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYIDSIDLEPVTKAED
 PVKFHEAWQKLCADGILVPGGFIRGTLGKLQAI SWARTKKIPFLGICLGMQLAVIEFARNCLNLKDNAN
 STEFEPNTPVPLVIDMPEHNPGDLGGTMRLGLRRTVFTTENSILSHPYF IG VQFHPEFSSRPMKPSPPYL
 GLLLAATGNLNAHLQQMKNLPYSDGYSDASDDSFPEAKLAELDLN

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001168571

ORF Size: 1605 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_001168571.1](#), [NP_001162043.1](#)

RefSeq Size: 5453 bp

RefSeq ORF: 1608 bp

Locus ID: 55936

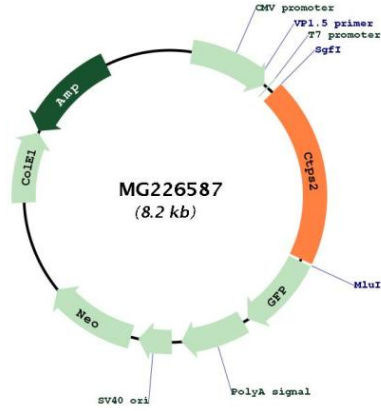
UniProt ID: [P70303](#)

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]

Product images:



Circular map for MG226587