

Product datasheet for **MR226582**

Ctps2 (NM_001168569) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctps2 (NM_001168569) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctps2
Synonyms:	A830031M15Rik; AI326475; Ctpsh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR226582 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGTATATCCTGGTTACTGGTGGGGTCATCTCAGGCATTGGTAAAGGGATTATCGCCAGCAGCATTG
 GGACTATTCTCAAGTCATGTGGACTCCGAGTACTGCCATCAAAATTGACCCCTATATTAACATCGATGC
 TGGAACTTTCTCACCTTATGAACATGGTGAAGTATTTGTTTTAAATGATGGTGGAGAAGTTGATTTGGAC
 CTTGGAACTATGAAAGATTCTTGGACATTAATCTCTATAAAGACAACAACATCACCCTGGGAAGATAT
 ATCAGCATGTGATCAACAAGAGAGGGCGGGTATTACCTGGGAAAACTGTTCAAGTTGCCCCATAT
 TACTGATGCTATCCAGGAGTGGTTATGAATCAAGCCAAGGTGTCTGTGGATGGCAATAAGGAAGATCCC
 CAGATATGTGTTATTGAGCTGGGAGGCACCATTGGAGACATTGAAGGAATGGCATTGTGGAAGCATTCC
 GACAGTCCAGTTTAAAGCCAAGAAAGAGAATTTCTATAATTCATGTCAGCCTGTGCCACAGCCAG
 TGCTACTGGAGAACAAAAACCAAGCCACGCAAAACAGTGTCCGTGCGCTGAGAGGGTTGGCTTGTCT
 CCGGATCTGATCGTCTGCCGTAGTTCAACCCCATTTGAGATGGCTGTGAAGGAGAAGATTTCTATGTTTT
 GTCACGTGAACCCCTGAACAGGTCATCTGTATCCATGATGTTTTCTCCATCTACCGAGTGCCTCTCCTTTT
 GGAGGAGCAAGGTGTGGTTAAATATTTTCAAGAGAGATTGGGCCTGCCATCAATGATTGTTCAAGTAAT
 TTGCTTTTCAAGTGGAAAGCCATGGCTGACAGGTATGAGAGATTGCAGAAAAATAGTTCCATAGCCCTGG
 TTGGTAAATACACCAAACTCAGGACTGCTACGCCTCTGTGTTCAAAGCACTGGAACACTCAGCCTTGGC
 CATCAACCACAAGTTGAACCTGATGTACATAGACTCCATTGATCTGGAGCCAGTCACCAAGCCGAGGAT
 CCTGTGAAATCCATGAAGCTTGGCAGAAGCTGTGCTTAGCTGATGGGATTCTTGTGCCCGGAGGGTTTG
 GAATCCGAGGAACATTGGGAAACTCCAGGCAATTTCTGTTGGCAAGGACAAGAAGATCCATTTCTGGG
 AATTTGCCTTGGGATGCAACTGGCAGTGATTGAGTTTGAAGAAACTGCCTGAACCTGAAAGATGCTAAT
 TCTACAGAATTTGAGCCAAACACTCCAGTCCCATTGGTAATTGACATGCCTGAACACAACCTGGCGATT
 TGGGAGGAACAATGAGACTGGGGTTAAGACGAACTGTTTTCACAACCTGAAAACCTCCATACTGAAGAAGCT
 TTATGGTGACGTTCCCTTACATAGAAGAAAGACACCGACATCGCTATGAGGTGAACCCTAACCTGATCAAC
 CAATTTGAGAATAAAGACCTTTGTTTTGTCGGTGAGGATGTAGATGGGAAGAGGATGAAATTTGTTGAGT
 TGACAAGTCATCCATATTTCAATGGTGTCCAGTCCATCTGAGTTTTCTCTAGCCAATGAAGCCTTC
 CCCTCCGTACCTGGGCTCTTACTTGCAGCAACGGGGAATCTGAATGCCATCTGCAGCAGATGAACAAG
 CTGCCATACAGTGATGGATACAGTGATGCCAGCGATGACAGCTTCCAGAGGCAAAGCTTGTGTAAGTGG
 ATCTCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226582 protein sequence
 Red=Cloning site Green=Tags(s)

MKYILVTGGVISGIGKGIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGEVFLNDGGEVDLD
 LGNYERFLDINLYKDNNTTGGKIYQHVINKERRGDYLGKTVQVPHITDAIQEWVMNQAKVSDGNKEDP
 QICVIELGGTIGDIEGMAFVEAFRQFQFKAKKENFYNIHVSLVPQPSATGEQKTKPTQNSVRALRGLGLS
 PDLIVCRSSTPIEMAVKEKISMFCNVNPEQVICIHDVSSIYRVPLLEEQGVVQYFQERLGLPINDCSSN
 LLFKWKAMADRYERLQKICSIALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYIDSIDLEPVTKAED
 PVKFHEAWQKLCLADGILVPGGFGIRGTLGKLQAI SWARTKKIPFLGICLGMQLAVIEFARNCLNLKDAN
 STEFEPNTPVPLVIDMPEHNPGDLGGTMRLGLRRTVFTTENSILKLYGDVPYIEERHRHRYEVNPNLIN
 QFENKDLCFVGEDVDGKRMEIVELTSHPYFIGVQFHPEFSSRPMKPSPPYLGLLLAATGNLNAHLQQMNK
 LPYSDGYSDASDDSFPEAKLAELDLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001168569

ORF Size: 1761 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_001168569.1](#), [NP_001162041.1](#)

RefSeq Size: 5531 bp

RefSeq ORF: 1761 bp

Locus ID: 55936

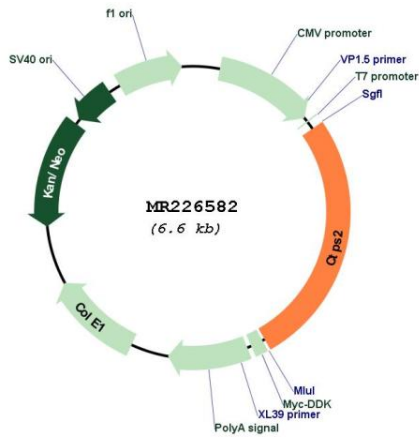
UniProt ID: [P70303](#)

Cytogenetics: X F4

MW: 65.5 kDa

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 MR226582