

## Product datasheet for **MR226581**

### Ctps2 (NM\_001168568) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctps2 (NM_001168568) 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)



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**ORF Nucleotide Sequence:**

>MR226581 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGTATATCCTGGTTACTGGTGGGGTCATCTCAGGCATTGGTAAAGGGATTATCGCCAGCAGCATTG  
 GGAATATTCTCAAGTCATGTGGACTCCGAGTACTGCCATCAAAATTGACCCCTATATTAACATCGATGC  
 TGGAACTTTCTCACCTTATGAACATGGTGAAGTATTTGTTTTAAATGATGGTGGAGAAGTTGATTTGGAC  
 CTTGGAACTATGAAAGATTCTTGGACATTAATCTCTATAAAGACAACAACATCACCAGTGGGAAGATAT  
 ATCAGCATGTGATCAACAAGAGAGGGCGCGGTGATTACCTGGGAAAACTGTTCAAGTTGCCCCATAT  
 TACTGATGCTATCCAGGAGTGGTTATGAATCAAGCCAAGGTGTCTGTGGATGGCAATAAGGAAGATCCC  
 CAGATATGTGTTATTGAGCTGGGAGGCACCATTGGAGACATTGAAGGAATGGCATTGTGGAAGCATTCC  
 GACAGTCCAGTTTAAAGCCAAGAAAGAGAATTTCTATAATTCATGTCAGCCTTGTGCCACAGCCAG  
 TGCTACTGGAGAACAAAAACCAAGCCACGCAAAACAGTGTCCGTGCGCTGAGAGGGTTGGCTTGTCT  
 CCGGATCTGATCGTCTGCCGTAGTTCAACCCCATTTGAGATGGCTGTGAAGGAGAAGATTTCTATGTTTT  
 GTCACGTGAACCCCTGAACAGGTCATCTGTATCCATGATGTTTTCTCCATCTACCGAGTGCCTCTCCTTTT  
 GGAGGAGCAAGGTGTGGTTAAATATTTTCAAGAGAGATTGGGCCTGCCATCAATGATTGTTCAAGTAAT  
 TTGCTTTTCAAGTGGAAAGCCATGGCTGACAGGTATGAGAGATTGCAGAAAAATAGTTCCATAGCCCTGG  
 TTGGTAAATACACCAAACTCAGGACTGCTACGCCTCTGTGTTCAAAGCACTGGAACACTCAGCCTTGGC  
 CATCAACCACAAGTTGAACCTGATGTACATAGACTCCATTGATCTGGAGCCAGTCACCAAGCCGAGGAT  
 CCTGTGAAATCCATGAAGCTTGGCAGAAGCTGTGCTTAGCTGATGGGATTCTTGTGCCCGGAGGGTTTG  
 GAATCCGAGGAACATTGGGAAACTCCAGGCAATTTCTGTTGGCAAGGACAAGAAGATCCATTTCTGGG  
 AATTTGCCTTGGGATGCAACTGGCAGTGATTGAGTTTGAAGAACTGCCTGAACCTGAAAGATGCTAAT  
 TCTACAGAATTTGAGCCAAACACTCCAGTCCCATTGGTAATTGACATGCCTGAACACAACCTGGCGATT  
 TGGGAGGAACAATGAGACTGGGGTTAAGACGAAGTGTTCACAACTGAAAACCTCATACTGAAGAAGCT  
 TTATGGTGACGTTCCCTTACATAGAAGAAAGACACCGACATCGCTATGAGGTGAACCCTAACCTGATCAAC  
 CAATTTGAGAATAAAGACCTTTGTTTTGTCGGTGAGGATGTAGATGGGAAGAGGATGGAAATTTGTTGAGT  
 TGACAAGTCATCCATATTCATTGGTGTCCAGTCCATCCTGAGTTTTCTCTAGGCCAATGAAGCCTTC  
 CCCTCCGTACCTGGGCTCTTACTTGCAGCAACGGGGAATCTGAATGCCATCTGCAGCAGATGAACAAG  
 CTGCCATACAGTGATGGATACAGTGATGCCAGCGATGACAGCTTCCAGAGGCAAAGCTTGTGTAAGTGG  
 ATCTCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226581 protein sequence  
 Red=Cloning site Green=Tags(s)

MKYILVTGGVISGIGKGIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGEVFLNDGGEVDLD  
 LGNYERFLDINLYKDNNTTGGKIYQHVINKERRGDYLGKTVQVPHITDAIQEWVMNQAKVSDGNKEDP  
 QICVIELGGTIGDIEGMAFVEAFRQFQFKAKKENFYNIHVSLVPQPSATGEQKTKPTQNSVRALRGLGLS  
 PDLIVCRSSTPIEMAVKEKISMFCNVNPEQVICIHDVSSIYRVPLLEEQGVVQYFQERLGLPINDCSSN  
 LLFKWKAMADRYERLQKICSIALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYIDSIDLEPVTKAED  
 PVKFHEAWQKLCLADGILVPGFGIRGTLGKLQAI SWARTKKIPFLGICLGMQLAVIEFARNCLNLKDAN  
 STEFEPNTPVPLVIDMPEHNPGLDGGTMRLLRRTVFTTENSILKLYGDVPYIEERHRHRYEVNPNLIN  
 QFENKDLCFVGEDVDGKRMEIVELTSHPYFIGVQFHPEFSSRPMKPSPPYLGLLLAATGNLNAHLQQMNK  
 LPYSDGYSDASDDSFPEAKLAELDLN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

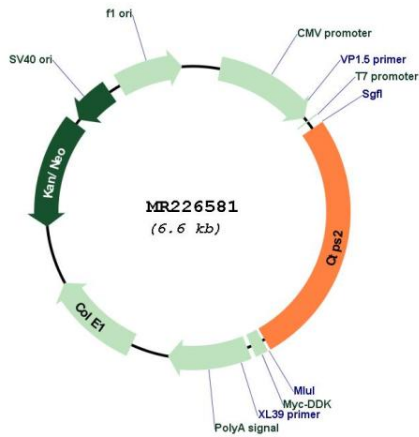


**Cytogenetics:** X F4

**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 MR226581