

## Product datasheet for **MR226587**

### **Ctps2 (NM\_001168571) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ctps2 (NM_001168571) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctps2
Synonyms:	A830031M15Rik; AI326475; Ctpsh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR226587 representing NM\_001168571  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGTATATCCTGGTTACTGGTGGGGTCATCTCAGGCATTGGTAAAGGGATTATCGCCAGCAGCATTG  
 GACTATTCTCAAGTCATGTGGACTCCGAGTTACTGCCATCAAAATTGACCCCTATATTAACATCGATGC  
 TGGAACTTTCTCACCTTATGAACATGGTGAAGTATTTGTTTTAAATGATGGTGGAGAAGTTGATTTGGAC  
 CTTGGAACTATGAAAGATTCTTGGACATTAATCTCTATAAAGACAACAACATCACCAGTGGGAAGATAT  
 ATCAGCATGTGATCAACAAGAGAGGGCGCGGTGATTACCTGGGAAAACTGTTCAAGTTGCCCCATAT  
 TACTGATGCTATCCAGGAGTGGTTATGAATCAAGCCAAGGTGTCTGTGGATGGCAATAAGGAAGATCCC  
 CAGATATGTGTTATTGAGCTGGGAGGCACCATTGGAGACATTGAAGGAATGGCATTGTGGAAGCATTCC  
 GACAGTCCAGTTTAAAGCCAAGAAAGAGAATTTCTATAATTCATGTCAGCCTGTGCCACAGCCAG  
 TGCTACTGGAGAACAAAAACCAAGCCACGCAAAACAGTGTCCGTGCGCTGAGAGGGTTGGCTGTCT  
 CCGGATCTGATCGTCTGCCGTAGTTCAACCCCATTTGAGATGGCTGTGAAGGAGAAGATTTCTATGTTTT  
 GTCACGTGAACCCCTGAACAGGTCATCTGTATCCATGATGTTTTCTCCATCTACCGAGTGCCTCTCCTTTT  
 GGAGGAGCAAGGTGTGGTTAAATATTTTCAAGAGAGATTGGGCCTGCCATCAATGATTGTTCAAGTAAT  
 TTGCTTTTCAAGTGGAAAGCCATGGCTGACAGGTATGAGAGATTGCAGAAAAATAGTTCCATAGCCCTGG  
 TTGGTAAATACACCAAACTCAGGACTGCTACGCCTCTGTGTTCAAAGCACTGGAACACTCAGCCTTGGC  
 CATCAACCACAAGTTGAACCTGATGTACATAGACTCCATTGATCTGGAGCCAGTCACCAAGCCGAGGAT  
 CCTGTGAAATCCATGAAGCTTGGCAGAAGCTGTGCTTAGCTGATGGGATTCTTGTGCCCGAGGGTTTG  
 GAATCCGAGGAACATTGGGAAAACTCCAGGCAATTTCTGTTGGCAAGGACAAGAAGATCCATTTCTGGG  
 AATTTGCCTTGGGATGCAACTGGCAGTGATTGAGTTTGAAGAACTGCCTGAACCTGAAAGATGCTAAT  
 TCTACAGAATTTGAGCCAAACACTCCAGTCCCATTGGTAATTGACATGCCTGAACACAACCTGGCGATT  
 TGGGAGGAACAATGAGACTGGGGTTAAGACGAACTGTTTTCACAACACTGAAAACCTCATACTGAGTCATCC  
 ATATTTCAATGGTGTCCAGTTCATCCTGAGTTTTCTCTAGGCCAATGAAGCCTTCCCCTCCGTACCTG  
 GGGCTCTTACTTGCAGCAACGGGAATCTGAATGCCCATCTGCAGCAGATGAACAAGCTGCCATACAGTG  
 ATGGATACAGTGATGCCAGCGATGACAGCTTCCAGAGGCAAAGCTTGTGAACTGGATCTCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226587 representing NM\_001168571  
 Red=Cloning site Green=Tags(s)

MKYILVTGGVISGIGKGIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGEVFLNDGGEVDLD  
 LGNYERFLDINLYKDNNTTGGIYQHVINKERRGDYLGKTVQVPHITDAIQEWMNQAKVSDGNKEDP  
 QICVIELGGTIGDIEGMAFVEAFRQFQFKAKKENFYNIHVSLVPQPSATGEQKTKPTQNSVRALRGLGLS  
 PDLIVCRSSTPIEMAVKEKISMFCNVNPEQVICIHDVSSIYRVPLLLLEEQGVVYFQERLGLPINDCSSN  
 LLFKWKAMADRYERLQKICSIALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYIDSIDLEPVTKAED  
 PVKFHEAWQKLCADGILVPGFGIRGTLGKLQATSWARTKKIPFLGICLGMQLAVIEFARNCLNLKDAN  
 STEFEPNTPVPLVIDMPEHNPGDLGGTMRGLRRTVFTTENSILSHPYFIGVQFHPEFSSRPMKPSPPYL  
 GLLLAATGNLNAHLQQMKNLPYSDGYSASDSSFPEAKLAELDLN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

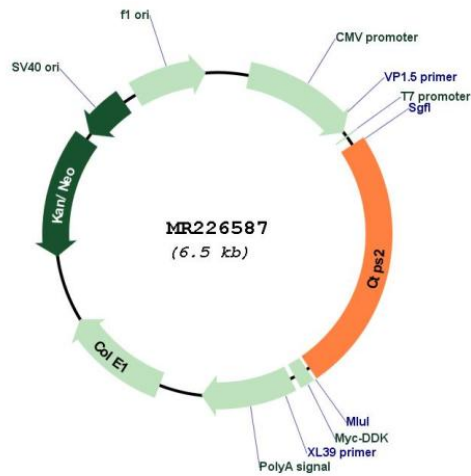
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_001168571
<b>ORF Size:</b>	1605 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001168571.1</a> , <a href="#">NP_001162043.1</a>
<b>RefSeq Size:</b>	5453 bp
<b>RefSeq ORF:</b>	1608 bp
<b>Locus ID:</b>	55936
<b>UniProt ID:</b>	<a href="#">P70303</a>
<b>Cytogenetics:</b>	X F4
<b>MW:</b>	59.8 kDa
<b>Gene Summary:</b>	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]