

Product datasheet for **RN207270**

Ctps2 (NM_001034998) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctps2 (NM_001034998) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ctps2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN207270 representing NM_001034998
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTATATCCTGGTTACTGGTGGGGTCATCTCAGGCATTGGTAAAGGGATCATCGCCAGCAGCATTG
 GGACCATCTCAAGTCATGTGGACTCCGAGTAACCGCCATCAAGATCGACCCCTACATTAACATTGATGC
 TGGCATTCTCACCTTACGAACATGGTGAAGTATTTGTTTTAAATGATGGTGGAGAAGTTGATTTGGAC
 CTTGGAAATTATGAAAGATTCTTGGACATTAATCTTTATAAAGACAACAACATCACCCTGGGAAGATAT
 ATCAGCATGTGATCAACAAAGAGAGGGCGGGTATTATCTGGGAAAACTGTCCAAGTGGTCCCCACAT
 TACTGATGCTATCCAAGACTGGTTATGAATCAAGCCAAGGTGTCTGTGGATGGCAATAAGGAAGATCCC
 CAGATATGTGTTATCGAGCTGGGAGGCACCATTGGAGACATCGAAGGGATGGCATTGTGGAAGCATTCC
 GACAATCCAGTTTAAAGCAAAGAGAGAGAATTTCTATAATTCATGTCAGCCTGTGCCACAGCCAG
 TGCTACTGGAGAACAAAAACCAAGCTACACAAAACAGTGTCCGTGCGCTGAGAGGGCTGGCTTGTCT
 CCGGATCTGATTGTCTGCCGAAGTTCAACACCCATTGAGATGGCTGTGAAGGAGAAGATTTCTATGTTTT
 GTCACGTGAACCCCTGAACAGGTCATCTGTATCCATGATGTTTTCTCCATCTACCGAGTCCCTCTCTTTT
 GGAGGAGCAAGGTGTGGTTAAATATTTTCAAGAGAGATTGGACCTGCCATCAATGATTGCTCAAATAAT
 TTGCTTTTCAAGTGGAAAACCATGGCTGACAGGTATGAAAGATTGCAGAAAAATAGTTCCATAGCCCTGG
 TTGGTAAATACACAAAACCTCAGGACTGCTACGCCTCTGTGTTCAAAGCCCTGGAACACTCAGCCTTGGC
 CATCAACCACAAGTTGAATCTGATGTACATAGACTCCATTGATCTGGAGCCAGTCACCAAAGCTGAGGAT
 CCTGTGAAATCCATGAAGCTTGGCAGAAGCTGTGCTTAGCTGATGGTATTCTCGTGCCTGGAGGCTTTG
 GAATCCGAGGAACATTGGGAAAACCTCAGGCAATTTCTTGGCAAGGACAAAGAAGATTTCCATTTCTGGG
 AATTTGCCTTGGGATGCAACTGGCAGTGATTGAGTTTGAAGAAAACCTGCCTGAACCTTGAAGATGCTAAT
 TCTACAGAATTTGATCCAAACACTCCAGTCCCATTGGTAATTGACATGCCTGAACACAACCTGGCGATT
 TGGGAGGAACAATGAGACTGGGATTAAGACGAAGTGTTCACAACTGAAAATCCATACTGAAGAAGCT
 TTACGGTATGTTCCCTTACATAGAAGAAAGACACCGACATCGGTATGAGGTGAACCCTAACCTGATCAAC
 CAATTTGAGAATAAAGACCTTTGCTTTGTCGGTGAGGATGTGGATGGGAAGAGGATGGAGATTATTGAAT
 TGACAGGTCATCCATATTCATCGGCGTCCAATCCATCCTGAGTTTTCTCTAGCCAATGAAGCCTTC
 CCCTCCGTACCTGGGACTCTTACTTGCAGCAACCGGAACCTCTGAATACCCATCTGCAACAGATGAGCAA
 CTATCGTACAGTGACATATACAGTGATGCCAGTGATGATAGCTTTTCCAGAGGCGAAGTTTGTGAGCTGG
 ATATCAACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001034998
- 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:	<ol style="list-style-type: none">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:	<u>NM_001034998.2</u> , <u>NP_001030170.1</u>
RefSeq Size:	3272 bp
RefSeq ORF:	1761 bp
Locus ID:	619580
UniProt ID:	<u>Q5U2N0</u>
Cytogenetics:	Xq14
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]