

Product datasheet for SC212691

CPS1 (NM_001875) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: CPS1 (NM_001875) Human 3' UTR Clone
Symbol: CPS1
Synonyms: CPSASE1; GATD6; PHN
Mammalian Cell Selection: Neomycin
Vector: pMirTarget (PS100062)
ACCN: NM_001875
Insert Size: 1152 bp

Insert Sequence: >SC212691 3'UTR clone of NM_001875
 The sequence shown below is from the reference sequence of NM_001875. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AGGCAGTACAGTGTGAAAAGCAGCATAGAGATGCAGACACCCAGCCCCATTATTAATCAACCTGA
GCCACATGTTATCTAAAGGAAGTATTCACAACCTTCTCAGAGATGAATATTGATAACTAACTTCATT
TCAGTTTACTTTGTTATGCCTTAATATTCTGTGCTTTTGCAATTAATTGTCAGTCACTTCTTCAAAA
CCTTACAGTCCTCCTAAGTTACTCTTCATGAGATTTCCATCCATTTACTAATACTGTATTTTTGGTGA
CTAGGCTTGCCTATGTGCTTATGTGTAGCTTTTTACTTTTTATGGTGCTGATTAATGGTGATCAAGGTA
GGAAAAGTTGCTGTTCTATTTTTCTGAACCTTTCTATACTTTAAGATACTCTATTTTTAAAACTATC
TGCAAACCTCAGGACACTTAAACAGGGCAGAATACTCTAAAAACTTGATAAAATTAATATAGATTTAAT
TTATGAACCTTCCATCATGATGTTTGTGATTGCTTCTTTTTGGATCCTCATTCTCACCCATTTGGCTA
ATCCAGGAATATTGTTATCCCTTCCATTATATTGAAGTTGAGAAATGTGACAGAGGCATTTAGAGTAT
GGACTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT
GCAGTGGCACAATCTCGGCTCACTGCAATTTCCGTCTCCCAAGTTCAAGCGATTCTCCTGCTTTAGACT
ATGGATTTCTTTAAGGAATACTGGTTTGCAGTTTGTGTTTCTGGACTATATCAGCAGATGGTAGACAGT
GTTTATGTAGATGTGTTGTTGTTTTATCATTGGATTTTAACCTTGGCCCGAGTGAATAATCAGATTTT
TGTCATTCACACTCTCCCCAGTTTTGGAATAACTTGAAGTAAGGTTTCATTCCCTTAAGACGATGGAT
TCTGTTGAACTATGGGTCCCACACTGCACTATTAATCCACCCACTGTAAGGGCAAGGACACCATTCC
TTCTACATATAAGAAAAAGTCTCTCCCAAGGGCAGCCTTTGTTACTTTTAAATATTTTCTGTTATTA
CAAGTGTCTAATTGTGAACTTTTAAATAAAAATACTATTAAGAGGTAA
ACGCGTAAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
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Restriction Sites:	Sgfl-Mlul
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_001875.5</u>
Summary:	The mitochondrial enzyme encoded by this gene catalyzes synthesis of carbamoyl phosphate from ammonia and bicarbonate. This reaction is the first committed step of the urea cycle, which is important in the removal of excess urea from cells. The encoded protein may also represent a core mitochondrial nucleoid protein. Three transcript variants encoding different isoforms have been found for this gene. The shortest isoform may not be localized to the mitochondrion. Mutations in this gene have been associated with carbamoyl phosphate synthetase deficiency, susceptibility to persistent pulmonary hypertension, and susceptibility to venoocclusive disease after bone marrow transplantation.[provided by RefSeq, May 2010]
Locus ID:	1373
MW:	44.6