

## Product datasheet for **RN208308**

### Cbs (NM\_012522) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cbs (NM_012522) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cbs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN208308 representing NM\_012522  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCCTTCAGGGACATCCAGTGTGAAGATGGCTCTGCAGGGTGCCCCAGGACTTGAGGTACAGCCAG  
AAAAAGGGCAACTGGAGAAGGGAGCCTCAGGGGACAAGGAAAGAGTCTGGATCTCGCCTGATACCCCAAG  
CAGATGTACTTGCCAGCTGGGCAGGCCATGGCGGATTCCCCACATTACCACACAGTGCCGACAAAATCC  
CCGAAAATTTTGCCAGATATTCTGAGGAAAATTGGCAACACCCCTATGGTCAGAATCAACAGGATCTCCA  
AGAATGCAGGACTCAAGTGCAGCTGTTGGCCAAGTGTGAGTTCTTCAACGCCGGTGGGAGTGTGAAGGA  
CCGCATCAGCCTCCGGATGATTGAAGACGCTGAGCGAGCCGGAACCTTGAAGCCCGGAGACACGATCATT  
GAGCCAACTTCTGGCAACACAGGGATCGGGCTGGCTCTGGCAGCTGCTGTGAAGGGCTATCGCTGCATTA  
TCGTGATGCCTGAGAAGATGAGTATGGAGAAGGTGGATGTCTGCGAGCTCTGGGAGCTGAGATTGTGAG  
GACGCCACCAACGCCAGATTGATTCCCCGAGTCCCACGTAGGAGTGGCATGGCGACTGAAGAACGAA  
ATCCCCAATTCTCACATTCTGGACCAGTACCGCAATGCCAGCAACCCCTTGGCGCACTACGATGACACCG  
CAGAGGAGATCCTGCAGCAGTGCGACGGGAAGGTGGACATGCTGGTGGCTTCAGCAGGCACGGGTGGCAC  
CATCACGGGTATCGCGAGGAAGCTGAAGGAGAAGTGCCAGGTTGAAAAATCATCGGTGTAGATCCCGAG  
GGGTCCATCCTCGCGGAGCCCGAGGAGCTGAACCAGACGGAGCAAACAGCCTATGAGGTGGAAGGGATCG  
GCTACGACTTCATCCCCACCGTCTGGACAGGGCGGTGGTGGATAGGTGGTTCAAGAGCAATGATGACGA  
TTCCTTCGCCCTTCGCCCCGATGCTCATCTCCAGGAGGGACTGCTGTGCGGTGGGAGTTCAGGCAGCGCT  
ATGGCCGTGGCTGTGAAGGCTGCCAGGAGCTAAAGGAAGGACAGCGCTGTGTGGTCATCCTGCCCGACT  
CTGTGCGCAACTACATGTCCAAGTCTTGAGTGACAAATGGATGCTGCAGAAAGGCTTCATGAAGGAGGA  
GCTCTCCGTGAAGAGACCCCTGGTGGTGGCATCTGCGTGTCCAAGAGCTGAGCCTATCAGCACCCGCTGACC  
GTGTTGCCCACTGTACCTGTGAGCACACCATCGCCATCCTCCGGGAGAAGGGTTTTGACCAGGCACCTG  
TGGTCAACGAGTCTGGGGCCATCCTAGGGATGGTACTCTCGGGAACATGTTGTCCTCCCTGCTTGTCTGG  
GAAGGTGCGGCCATCAGACGAAGTCTGCAAAGTCTCTACAAGCAGTTCAAGCCGATCCACCTGACCGAC  
ACACTGGGCATGCTCTCCACATCCTGGAGATGGACCACTTCGCCCTGGTGGTCCATGAGCAGATCCAAT  
ACCGCAACAATGGCGTGTCCAGCAAGCAGCTGATGGTGTGTTGGTGTGTCACCGCCATTGACCTGCTAAA  
CTTCGTGGCAGCCCGTGAGCAGACCCGAAATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja2203\\_e09.zip](https://cdn.origene.com/chromatograms/ja2203_e09.zip)

Restriction Sites: Sgfl-Mlul

ACCN: NM\_012522

Insert Size: 1644 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_012522.2](#), [NP\\_036654.2](#)

**RefSeq Size:** 2539 bp

**RefSeq ORF:** 1644 bp

**Locus ID:** 24250

**UniProt ID:** [P32232](#)

**Cytogenetics:** 20p12

**Gene Summary:** catalyzes condensation of serine and homocysteine to cystathione; involved in transsulfuration pathway; regulated by insulin; alternative splicing produces four mRNA species [RGD, Feb 2006]