

## Product datasheet for **RR208308**

### Cbs (NM\_012522) Rat Tagged ORF Clone

#### Product data:

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



[View online »](#)

**ORF Nucleotide Sequence:**

>RR208308 representing NM\_012522  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCTTCAGGGACATCCAGTGTGAAGATGGCTCTGCAGGGTGCCCCAGGACTTGGAGGTACAGCCAG  
 AAAAAGGGCAACTGGAGAAGGGAGCCTCAGGGGACAAGGAAAGAGTCTGGATCTCGCCTGATACCCCAAG  
 CAGATGTACTTGGCAGCTGGGCAGGCCATGGCGGATTCCCCACATTACCACACAGTGCCGACAAAAATCC  
 CCGAAAAATTTGGCAGATATTCTGAGGAAAATTGGCAACACCCCTATGGTCAGAATCAACAGGATCTCCA  
 AGAATGCAGGACTCAAGTGCAGCTGTTGGCCAAGTGTGAGTTCTTCAACGCCGGTGGGAGTGTGAAGGA  
 CCGCATCAGCCTCCGGATGATTGAAGACGCTGAGCGAGCCGGAACCTTGAAGCCCGGAGACACGATCATT  
 GAGCCAACTTCTGGCAACACAGGGATCGGGCTGGCTCTGGCAGCTGCTGTGAAGGGCTATCGCTGCATTA  
 TCGTGATCGCTGAGAAGATGAGTATGGAGAAGGTGGATGTCTGCGAGCTCTGGGAGCTGAGATTGTGAG  
 GACGCCACCAACGCCAGATTTCGATTCCCCGAGTCCCACGTAGGAGTGGCATGGCGACTGAAGAACGAA  
 ATCCCAATTCTCACATTCTGGACCAGTACCGCAATGCCAGCAACCCCTTGGCGCACTACGATGACACCG  
 CAGAGGAGATCCTGCAGCAGTGCAGCGGAAGGTGGACATGCTGGTGGCTTACAGCAGGCACGGGTGGCAC  
 CATCACGGGTATCGCGAGGAAGCTGAAGGAGAAGTGCCAGGTTGTAATAATCATCGGTGTAGATCCCGAG  
 GGGTCCATCCTCGCGGAGCCCGAGGAGCTGAACCAGACGGAGCAAACAGCCTATGAGGTGGAAGGGATCG  
 GCTACGACTTCATCCCCACCGTCTGGACAGGGCGGTGGTGGATAGGTGGTTCAAGAGCAATGATGACGA  
 TTCCTTCGCTTCGCCCAGTGCATCTCCCAGGAGGGACTGCTGTGCGGTGGGAGTTCAGGCAGCGCT  
 ATGGCCGTGGCTGTGAAGGCTGCCCAGGAGCTAAAGGAAGGACAGCGCTGTGTGGTATCCTGCCCGACT  
 GCTCTCCGTGAAGAGACCCCTGGTGGTGGCATCTGCGTGTCCAAGAGCTGAGCCTATCAGCACCCGCTGACC  
 GTGTTGCCCACTGTACCTGTGAGCACACCATCGCCATCCTCCGGGAGAAGGGTTTTGACCAGGCACCTG  
 TGGTCAACGAGTCTGGGGCCATCCTAGGGATGGTACTCTCGGGAACATGTTGTCCTCCCTGCTTGTCTGG  
 GAAGGTGCGGCCATCAGACGAAGTCTGCAAAGTCTCTACAAGCAGTTCAAGCCGATCCACCTGACCGAC  
 ACACTGGGCATGCTCTCCACATCCTGGAGATGGACCCTTCGCCCTGGTGGTCCATGAGCAGATCCAAT  
 ACCGCAACAATGGCGTGTCCAGCAAGCAGCTGATGGTGTGGTGTGTCACCGCCATTGACCTGCTAAA  
 CTTCTGTGGCAGCCGTGAGCAGACCCGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR208308 representing NM\_012522  
 Red=Cloning site Green=Tags(s)

MPSGTSQCEDGSAGCPQDLEVQPEKGQLEKASGDKERVWISPDTPSRCTWQLGRPMADSPHYHTVPTKS  
 PKILPDILRKIGNTPMVRINRISKNAGLKCELLAKCEFFNAGGSVKDRISLRMIEDAERAGTLKPGDTII  
 EPTSGNTGIGLALAAVKGYRCIIVMPEKMSMEKVDVLRALGAEIVRTPTNARFDSPEHVAVWRLKNE  
 IPNSHILDQYRNASNPLAHYDDTAEEILQQCDGKVDMLVASAGTGGTITGIARKLKEKCPGCKIIGVDPE  
 GSILAEPEELNQTEQTAYEVEGIGYDFIPTVLDRVVDRWFKSNDDDSFAFARMLISQEGLLCGGSSGSA  
 MAVAVKAAQELKEGQRCVVILPDSVRNYMSKFLSDKWMLQKGFMKKEELSVKRPWWHLRVQELSLAPLT  
 VLPTVTCEHTIAILREKGFQAPVVNESGAILGMVTLGNMLSSLLAGKVRPSDEVCKVLKQFKPIHLTD  
 TLGMLSHILEMDHFALVVHEQIQYRNNGVSSKQLMVFVVTAIDLNFVAAREQTRK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**ACCN:**

NM\_012522

**ORF Size:**

1641 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](#)

**OTI Annotation:**

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

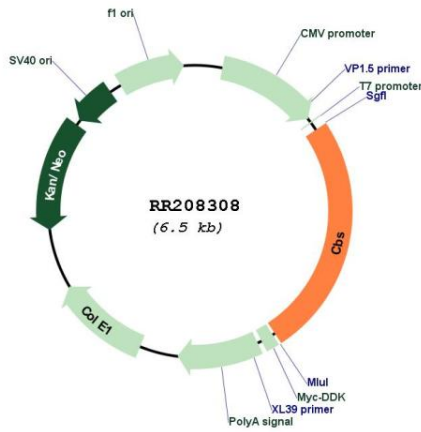
**Reconstitution Method:**

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  
**MW:** 60.1 kDa

**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]

### Product images:



Circular map for RR208308