

## Product datasheet for **MC218938**

### Cbs (NM\_144855) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cbs (NM_144855) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cbs
Synonyms:	AI047524; AI303044; HIP4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218938 representing NM\_144855  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCTTCAGGGACATCCCAGTGTGAAGATGGCTCTGCTGGGGCTTCCAGCACTTGGACATGCACTCAG  
AAAAGAGACAACCTGGAGAAGGGCCCTCAGGGGACAAGGATCGAGTCTGGATCCGGCCTGATACCCAAG  
CAGATGTACCTGGCAGCTGGGCAGGGCCATGGCGGACTCCCCACATTATCACACAGTGTGACCAATCC  
CCCAAAATTTTACCAGATATTCTGAGGAAAATTGGGAACACCCCTATGGTCAGAATCAACAAGATCTCAA  
AGAATGCCGGTCTCAAGTGTGAGCTCTTGGCCAAGTGTGAGTTCTTCAATGCGGGTGGGAGTGTGAAGGA  
CCGCATCAGCCTTCGGATGATCGAAGATGCTGAGCGAGCTGGAACTTGAAGCCTGGAGACACTATCATT  
GAGCCAATTCTGGCAACACAGGGATCGGGCTGGCTCTGGCTGCTGCAGTGAAGGGCTATCGCTGCATTA  
TCGTGATGCCGGAGAAGATGAGTATGGAGAAGGTGGATGTCTGCGGGCTCTGGGAGCCGAGATTGTGAG  
GACGCCACCAATGCCAGATTTGATTCCCCGAGTCCCACGTGGGAGTGGCATGGCGACTGAAGAACGAA  
ATCCCTAATTCTCACATTCTGGACCAGTACCGCAATGCCAGCAACCCCTTGGCACACTACGATGACACCG  
CCGAGGAGATCCTGCAGCAGTGTGACGGGAAGCTGGATATGCTGGTGGCTTCAGCAGGCACGGGTGGCAC  
CATCACAGGGATCGCCAGAAAGCTGAAGGAGAAGTGCCCTGGCTGTAAAATCATCGGTGTCGATCCTGAA  
GGCTCCATCCTTGCAGGAGCCGAGGAGCTGAACCAGACGGAGCAAACAGCCTATGAGGTGGAAGGGATTG  
GCTACGACTTCATCCCGACAGTCTGGACAGGGCGGTGGTGGATAAGTGGTTCAAGAGCAACGATGAAGA  
TTCTTCGCCCTTGGCCGCATGCTCATCGCACAGGAAGGACTGCTATGTGGTGAAGCTCTGGCAGCGCC  
ATGGCTGTGGCTGTGAAGGCTGCCCGGAGCTGCAGGAAGGGCAGCGCTGTGTGGTATCCTGCCTGACT  
CTGTGCGGAACATACATGTCCAAGTTCCTGAGTGACAAATGGATGCTGCAGAAAGTTTCATGAAAGAGGA  
GCTCTCAGTGAAGAGGCCCTGGTGGTGGCTGCGGTGTTCAAGAGCTGAGCCTGTCGGCCCGCTGACC  
GTGTTGCCACGGTACCTGTGAGGACACCATCGCCATCCTCCGGGAGAAGGGTTTTGACCAGGCACCTG  
TGGTCAACGAGTCTGGGGCCATCCTAGGGATGGTACCCTCGGGAACATGCTGTCATCCCTGCTGGCTGG  
AAAGGTGCGGCCATCAGACGAAGTCTGCAAAGTCTCTACAAGCAGTTCAAACCGATCCACCTGACCAGC  
ACGCTGGGCACACTCTCTACATCCTGGAGATGGACCCTTCGCCCTGGTGGTCCACGAGCAGATCCAAT  
CACGAGACCAGGCTGGTCAAGAGTGGTGGGGGGCCACAGACTGCAGCAATGGCATGTCCAGCAAGCA  
GCAGATGGTGTGGGGTGTCACTGCCATTGACCTGCTAAACTCGTGGCAGCCCGTGGCAGACCCAG  
ACATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_144855

**Insert Size:** 1686 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:**

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\\_144855.3](#), [NP\\_659104.1](#)

**RefSeq Size:** 2503 bp

**RefSeq ORF:** 1686 bp

**Locus ID:** 12411

**UniProt ID:** [Q91WT9](#)

**Cytogenetics:** 17 16.93 cM

**Gene Summary:** Hydro-lyase catalyzing the first step of the transsulfuration pathway, where the hydroxyl group of L-serine is displaced by L-homocysteine in a beta-replacement reaction to form L-cystathionine, the precursor of L-cysteine. This catabolic route allows the elimination of L-methionine and the toxic metabolite L-homocysteine (By similarity). Also involved in the production of hydrogen sulfide, a gasotransmitter with signaling and cytoprotective effects on neurons (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.