

Product datasheet for **MC218790**

Cbs (NM_178224) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cbs (NM_178224) 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: >MC218790 representing NM_178224
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTTCAGGGACATCCAGTGTGAAGATGGCTCTGCTGGGGCTTCCAGCACTTGGACATGCACTCAG
 AAAAGAGACAACCTGGAGAAGGGCCCTCAGGGGACAAGGATCGAGTCTGGATCCGGCCTGATACCCCAAG
 CAGATGTACCTGGCAGCTGGGCAGGGCCATGGCGGACTCCCCACATTATCACACAGTGTGACCAATCC
 CCCAAAATTTTACCAGATATTCTGAGGAAAATTGGGAACACCCCTATGGTCAGAATCAACAAGATCTCAA
 AGAATGCCGGTCTCAAGTGTGAGCTCTTGGCCAAGTGTGAGTTCTTCAATGCGGGTGGGAGTGTGAAGGA
 CCGCATCAGCCTTCGGATGATCGAAGATGCTGAGCGAGCTGGAACTTGAAGCCTGGAGACACTATCATT
 GAGCCAATTCTGGCAACACAGGGATCGGGCTGGCTCTGGCTGCTGCAGTGAAGGGCTATCGCTGCATTA
 TCGTGATCCGGAGAAGATGAGTATGGAGAAGGTGGATGTCTGCGGGCTCTGGGAGCCGAGATTGTGAG
 GACGCCACCAATGCCAGATTTGATTCCCCGAGTCCCACGTGGGAGTGGCATGGCGACTGAAGAACGAA
 ATCCCTAATTCTCACATTCTGGACCAGTACCGCAATGCCAGCAACCCCTTGGCACACTACGATGACACCG
 CCGAGGAGATCCTGCAGCAGTGTGACGGGAAGCTGGATATGCTGGTGGCTTCAGCAGGCACGGGTGGCAC
 CATCACAGGGATCGCCAGAAAGCTGAAGGAGAAGTGCCCTGGCTGTAAAATCATCGGTGTCGATCCTGAA
 GGCTCCATCCTTGCAGGAGCCGAGGAGCTGAACCAGACGGAGCAAACAGCCTATGAGGTGGAAGGGATTG
 GCTACGACTTCATCCCGACAGTCTGGACAGGGCGGTGGTGGATAAGTGGTTCAAGAGCAACGATGAAGA
 TTCCTTCGCCCTTGGCCGCATGCTCATCGCACAGGAAGGACTGCTATGTGGTGAAGCTCTGGCAGCGCC
 ATGGCTGTGGCTGTGAAGGCTGCCCGGAGCTGCAGGAAGGGCAGCGCTGTGTGGTCATCCTGCCTGACT
 CTGTGCGGAACATACATGTCCAAGTTCCTGAGTGACAAATGGATGCTGCAGAAAGTTTTCATGAAAGAGGA
 GCTCTCAGTGAAGAGGCCCTGGTGGTGGCTCTGCGTGTTCAAGAGCTGAGCCTGTCGGCCCCGCTGACC
 GTGTTGCCACGGTACCTGTGAGGACACCATCGCCATCCTCCGGGAGAAGGGTTTTGACCAGGCACCTG
 TGGTCAACGAGTCTGGGGCCATCCTAGGGATGGTACCCTCGGGAACATGCTGTGATCCCTGCTGGCTGG
 AAAGGTGCGGCCATCAGACGAAGTCTGCAAAGTCTCTACAAGCAGTTCAAACCGATCCACCTGACCAGC
 ACGCTGGGCACACTCTCTACATCCTGGAGATGGACCCTTCGCCCTGGTGGTCCACGAGCAGATCCAAT
 ACTGCAGCAATGGCATGTCCAGCAAGCAGCAGATGGTGTGGGGTTGTCACCTGCCATTGACCTGCTAAA
 CTTCTGTGGCAGCCGTGAGCAGACCCAGACATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_178224

Insert Size: 1644 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_178224.3](#), [NP_835742.1](#)

RefSeq Size: 2461 bp

RefSeq ORF: 1644 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 (2) lacks an alternate in-frame exon in the 3' coding region compared to variant 1. Both variants 2 and 3 encode the same isoform (2), which is shorter than isoform 1.