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Product datasheet for MC228252

Cbs (NM_001271353) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cbs (NM_001271353) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cbs
Synonyms:	AI047524; AI303044; HIP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

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>MC228252 representing NM_001271353
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTTCAGGGACATCCCAGTGTGAAGATGGCTCTGCTGGGGGCTTCCAGCACTTGGACATGCACTCAG
AAAAGAGACAACTGGAGAAGGGCCCCTCAGGGGACAAGGATCGAGTCTGGATCCGGCCTGATACCCCAAG
CAGATGTACCTGGCAGCTGGGCAGGGCCATGGCGGACTCCCCACATTATCACACAGTGCTGACCAAATCC
CCCAAAATTTTACCAGATATTCTGAGGAAAATTGGGAACACCCCTATGGTCAGAATCAACAAGATCTCAA
AGAATGCCGGTCTCAAGTGTGAGCTCTTGGCCAAGTGTGAGTTCTTCAATGCGGGTGGGAGTGTGAAGGA
CCGCATCAGCCTTCGGATGATCGAAGATGCTGAGCGAGCTGGAAACTTGAAGCCTGGAGACACTATCATT
GAGCCAACTTCTGGCAACACAGGGATCGGGCTGGCTCTGGCTGCTGCAGTGAAGGGCTATCGCTGCATTA
TCGTGATGCCGGAGAAGATGAGTATGGAGAAGGTGGATGTGCTGCGGGCTCTGGGAGCCGAGATTGTGAG
GACGCCCACCAATGCCAGATTTGATTCCCCCGAGTCCCACGTGGGAGTGGCATGGCGACTGAAGAACGAA
ATCCCTAATTCTCACATTCTGGACCAGTACCGCAATGCCAGCAACCCTTTGGCACACTACGATGACACCG
CCGAGGAGATCCTGCAGCAGTGTGACGGGAAGCTGGATATGCTGGTGGCTTCAGCAGGCACGGGTGGCAC
CATCACAGGGATCGCCAGAAAGCTGAAGGAGAAGTGCCCTGGCTGTAAAATCATCGGTGTCGATCCTGAA
GGCTCCATCCTTGCGGAGCCCGAGGAGCTGAACCAGACGGAGCAAACAGCCTATGAGGTGGAAGGGATTG
GCTACGACTTCATCCCGACAGTCCTGGACAGGGCGGTGGTGGATAAGTGGTTCAAGAGCAACGATGAAGA
TTCCTTCGCCTTTGCCCGCATGCTCATCGCACAGGAAGGACTGCTATGTGGTGGAAGCTCTGGCAGCGCC
ATGGCTGTGGCTGTGAAGGCTGCCCGGGAGCTGCAGGAAGGGCAGCGCTGTGTGGTCATCCTGCCTGACT
CTGTGCGGAACTACATGTCCAAGTTCCTGAGTGACAAATGGATGCTGCAGAAAGGTTTCATGAAAGAGGA
GCTCTCAGTGAAGAGGCCCTGGTGGTGGCGTCTGCGTGTTCAAGAGCTGAGCCTGTCGGCCCCGCTGACC
GTGTTGCCCACGGTCACCTGTGAGGACACCATCGCCATCCTCCGGGAGAAGGGTTTTGACCAGGCACCTG
TGGTCAACGAGTCTGGGGCCATCCTAGGGATGGTGACCCTCGGGAACATGCTGTCATCCCTGCTGGCTGG
AAAGGTGCGGCCATCAGACGAAGTCTGCAAAGTCCTCTACAAGCAGTTCAAACCGATCCACCTGACCGAC
ACGCTGGGCACACTCTCTCACATCCTGGAGATGGACCACTTCGCCCTGGTGGTCCACGAGCAGATCCAAT
ACTGCAGCAATGGCATGTCCAGCAAGCAGCAGATGGTGTTTGGGGTTGTCACTGCCATTGACCTGCTAAA
CTTCGTGGCAGCCCGTGAGCAGACCCAGACATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-MluI

ACCN: NM_001271353

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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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).

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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_001271353.1, NP_001258282.1
RefSeq Size:	2458 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 (3) uses an alternate splice site in the 5' UTR and 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.

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