

Product datasheet for **SC328899**

CBS (NM_001178009) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CBS (NM_001178009) Human Untagged Clone
Tag:	Tag Free
Symbol:	CBS
Synonyms:	CBSL; HIP4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001178009, the custom clone sequence may differ by one or more nucleotides

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ATGCCTTCTGAGACCCCCAGGCAGAAGTGGGGCCACAGGCTGCCCCACCGCTCAGGG
CCACACTCGGCGAAGGGGAGCCTGGAGAAGGGTCCCCAGAGGATAAGGAAGCCAAGGAG
CCCCTGTGGATCCGGCCCGATGCTCCGAGCAGGTGCACCTGGCAGCTGGGCCGGCCTGCC
TCCGAGTCCCCACATCACCACACTGCCCGGCAAAATCTCCAAAATCTTGCCAGATATT
CTGAAGAAAATCGGGGACACCCCTATGGTCAGAATCAACAAGATTGGGAAGAAGTTCGGC
CTGAAGTGTGAGCTCTTGGCCAAGTGTGAGTTCTTCAACGCGGGCGGAGCGTGAAGGAC
CGCATCAGCCTGCGGATGATTGAGGATGCTGAGCGGACGGGACGCTGAAGCCCGGGGAC
ACGATTATCGAGCCGACATCCGGGAACACCGGGATCGGGCTGGCCTGGTGCGGCAAGT
AGGGGCTATCGTGATCATCGTGATGCCAGAGAAGATGAGTCCGAGAAGGTGGACGTG
CTGCGGGCACTGGGGGCTGAGATTGTGAGGACGCCACCAATGCCAGTTGACTCCCCG
GAGTCACACGTGGGGTGGCCTGGCGGTGAAGAACGAAATCCCCAATTCTCACATCCTA
GACCAAGTACCGCAACGCCAGCAACCCCTGGCTACTACGACACCACCGCTGATGAGATC
CTGCAGCAGTGTGATGGGAAGCTGGACATGCTGGTGGCTTCAGTGGGCACGGGCGGCACC
ATCAGCGGCAATGCCAGGAAGCTGAAGGAGAAGTGCCTGGATGCAGGATCATTGGGGTG
GATCCCGAAGGGTCCATCCTCGCAGAGCCGGAGGAGCTGAACCAGACGGAGCAGACAACC
TACGAGGTGGAAGGGATCGGCTACGACTTCATCCCCACGGTGGTGGACAGGACGGTGGT
GACAAGTGGTTCAAGAGCAACGATGAGGAGGCGTTACCTTTGCCCGCATGCTGATCGCG
CAAGAGGGGCTGCTGTGCGGTGGCAGTGTGGCAGCACGGTGGCGGTGGCCGTGAAGGCC
GCCGAGGAGCTGCAGGAGGGCCAGCGCTGCGTGGTCATTCTGCCGACTCAGTCCGGAAC
TACATGACCAAGTTCCTGAGCGACAGGTGGATGCTGCAGAAGGGCTTTCTGAAGGAGGAG
GACCTCACGGAGAAGAAGCCCTGGTGGTGGCACCTCCGTGTTGAGGAGCTGGCCGTGCA
GCCCGCTGACCGTGTCCCGACCATCACCTGTGGGCACACCATCGAGATCCTCCGGGAG
AAGGGTTCGACCAAGGCGCCCGTGGTGGATGAGGCGGGGTAATCCTGGGAATGGTGACG
CTTGGGAACATGCTCTCGTCCCTGCTTGGCGGAAGGTGCAGCCGTGACACCAAGTTGGC
AAAGTCATCTACAAGCAGTTCAAACAGATCCGCCTCACGGACACGCTGGGAGGCTCTCG
CACATCTGGAGATGGACACTTCGCCCTGGTGGTGCACGAGCAGATCCAGTACCACAGC
ACCGGGAAGTCCAGTCCAGCGGCAGATGGTGTTCGGGGTGGTCACCGCCATTGACTTGCTG
AACTTCGTGGCCGCCAGGAGCGGGACCAAGAAGTGA
    
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Restriction Sites: Please inquire

ACCN: NM_001178009

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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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:	<u>NM_001178009.1</u> , <u>NP_001171480.1</u>
RefSeq Size:	2372 bp
RefSeq ORF:	1656 bp
Locus ID:	875
UniProt ID:	<u>P35520</u>
Cytogenetics:	21q22.3
Protein Families:	Druggable Genome
Protein Pathways:	Cysteine and methionine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Selenoamino acid metabolism
Gene Summary:	<p>The protein encoded by this gene acts as a homotetramer to catalyze the conversion of homocysteine to cystathionine, the first step in the transsulfuration pathway. The encoded protein is allosterically activated by adenosyl-methionine and uses pyridoxal phosphate as a cofactor. Defects in this gene can cause cystathionine beta-synthase deficiency (CBS), which can lead to homocystinuria. This gene is a major contributor to cellular hydrogen sulfide production. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Feb 2016]</p>