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# Product datasheet for RC230260L3V

## CBS (NM_001178008) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | CBS (NM_001178008) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | CBS |
| **Synonyms:** | CBSL; HIP4 |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| **Tag:** | Myc-DDK |
| **ACCN:** | NM_001178008 |
| **ORF Size:** | 1653 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC230260). |
| **OTI Disclaimer:** | 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. |
| **RefSeq:** | NM_001178008.1 |
| **RefSeq ORF:** | 1656 bp |
| **Locus ID:** | 875 |
| **UniProt ID:** | P35520 |
| **Cytogenetics:** | 21q22.3 |
| **Protein Families:** | Druggable Genome |
| **Protein Pathways:** | Cysteine and methionine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Selenoamino acid metabolism |

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**MW:** 61 kDa

**Gene Summary:** 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 (CBSD), 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]