

Product datasheet for **RG230261**

CBS (NM_001178009) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CBS (NM_001178009) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | CBS |
| Synonyms: | CBSL; HIP4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG230261 representing NM_001178009
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTTCTGAGACCCCCAGGCAGAAGTGGGGCCACAGGCTGCCCCACCGCTCAGGGCCACACTCGG
 CGAAGGGGAGCCTGGAGAAGGGGTCCCCAGAGGATAAGGAAGCCAAGGAGCCCTGTGGATCCGGCCCGA
 TGCTCCGAGCAGGTGCACCTGGCAGCTGGGCGGCCTGCCTCCGAGTCCCCACATCACCACACTGCCCCG
 GCAAAATCTCAAAAATCTTGCCAGATATTCTGAAGAAAATCGGGGACACCCCTATGGTCAGAATCAACA
 AGATTGGGAAGAAGTTCGGCCTGAAGTGTGAGCTCTGGCCAAGTGTGAGTTCTTCAACGCGGGCGGGAG
 CGTGAAGGACCGCATCAGCCTGCGGATGATTGAGGATGCTGAGCGGACGGGACGCTGAAGCCCGGGAC
 ACGATTATCGAGCCGACATCCGGGAACACCGGGATCGGGCTGGCCCTGGCTGCGGCAGTGAGGGGCTATC
 GCTGCATCATCGTATGCCAGAGAAGATGAGCTCCGAGAAGGTGGACGTGCTGCGGGCACTGGGGGCTGA
 GATTGTGAGGACGCCACCAATGCCAGGTTGACTCCCCGGAGTACACGTGGGGTGGCCTGGCGGCTG
 AAGAACGAAATCCCAATTCTCACATCCTAGACCAGTACCGCAACGCCAGCAACCCCTGGCTCACTACG
 ACACCACCGCTGATGAGATCCTGCAGCAGTGTGATGGGAAGCTGGACATGCTGGTGGCTTCACTGGGCAC
 GGGCGGCACCATCACGGGCATTGCCAGGAAGCTGAAGGAGAAGTGTCTGGATGCAGGATCATTGGGGTG
 GATCCCGAAGGGTCCATCCTCGCAGAGCCGGAGGAGCTGAACCAGACGGAGCAGACAACCTACGAGGTGG
 AAGGGATCGGCTACGACTTATCCCCACGGTGTGGACAGGACGGTGGTGGACAAGTGGTCAAGAGCAA
 CGATGAGGAGGCGTTACCTTTGCCGCATGCTGATCGCGCAAGAGGGGCTGCTGTGCGGTGGCAGTGTCT
 GGCAGCACGGTGGCGGTGGCCGTGAAGGCCGCGCAGGAGCTGCAGGAGGGCCAGCGCTGCGTGGTCAATC
 TGCCCGACTCAGTGCAGCACTACATGACCAAGTTCCTGAGCGACAGGTGGATGCTGCAGAAGGGCTTCT
 GAAGGAGGAGGACCTCACGGAGAAGAAGCCCTGGTGGTGGCACCTCCGTGTTCAAGGAGCTGGGCCTGTCA
 GCCCGCTGACCGTGTCTCCCGACCATCACCTGTGGGCACACCATCGAGATCCTCCGGGAGAAGGGCTTCG
 ACCAGGCGCCCGTGGTGGATGAGGCGGGGTAATCCTGGGAATGGTACGCTTGGGAACATGCTCTCGTC
 CCTGCTTGCCGGGAAGGTGCAGCCGTCAGACCAAGTTGGCAAAGTCATCTACAAGCAGTTCAAACAGATC
 CGCCTCACGGACAGCTGGGCAGGCTCTCGCACATCCTGGAGATGGACCACTTCGCCCTGGTGGTGCACG
 AGCAGATCCAGTACCACAGCACCGGAAGTCCAGTACGCGGCAGATGGTGTTCGGGGTGGTACCGCCAT
 TGACTTGCTGAACCTCGTGGCCGCCAGGAGCGGGACCAGAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230261 representing NM_001178009
 Red=Cloning site Green=Tags(s)

MPSETPQAEVGP TGCPHRSGPHSAKGSLEKSPEDKEAKEPLWIRPDAPSRTCWQLGRPASESPHHHTAP
 AKSPKILPDILKKIGDTPMVRINKIGKKFGLKCELLAKCEFFNAGGSVKDRISLRMIEDAERDGLKPGD
 TIIPTSNTGIGLALAAVRGYRCIIVMPEKMSSEKVDVLRALGAEIVRTPNARFDSPEHSVGVAVRWL
 KNEIPNSHILDQYRNASNPLAHYDDEILQQCDGKLDMLVASVGTGGTITGIARKLKEKCPGCRIGV
 DPEGSILAEPEELNQTEQTTVEVEGIGYDFIPTVLDRTVVDKWFKSNDEEAFTFARMLIAQEGLLCGGSA
 GSTVAVAVKAAQELQEQRCVVILPDSVRNYMTKFLSDRWMLQKGFLEEDLTEKKPWWWHLRVQELGLS
 APLTVLPTITCGHTIEILREKGFDPVVEAGVILGMVTLGNMLSSLLAGKVQPSDQVGKVIYQFKQI
 RLTDLTLGRLSHILEMDHFALVVHEQIQYHSTGKSSQRQMVFGVVTVIDLLNFVAAQERDQK

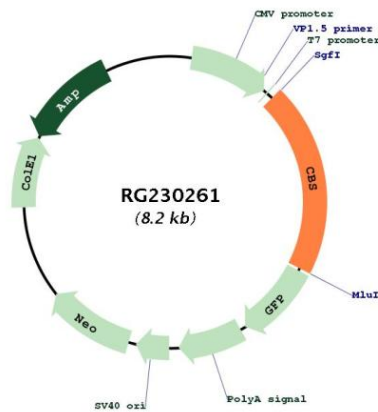
TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

| | |
|-------------------|---|
| RefSeq: | NM_001178009.3 |
| RefSeq Size: | 2372 bp |
| 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 |
| 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 (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] |

Product images:



Circular map for RG230261