

## Product datasheet for **SC201916**

### GCAT (NM\_014291) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** GCAT (NM\_014291) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** GCAT  
**Synonyms:** KBL  
**ACCN:** NM\_014291  
**Insert Size:** 197 bp  
**Insert Sequence:** >SC201916 3' UTR clone of NM\_014291  
The sequence shown below is from the reference sequence of NM\_014291. The complete sequence of this clone may contain minor differences, such as SNPs. **Red**=Cloning site  
**Blue**=Stop Codon

CAATTGGCAGAGCTCAGAATTCAAGCGATCGC

GGAGGCCTTCGTGGAAGTGGGGCGACTGCACGGGGCACTGCC**TGA**GCTCTGGGTAAAGACGAGAAGAGC  
CAAGGTCCGCCTACTGCCACAGGGTCAAAGGAGGTTTTTCGATCAGCCCAGACCAGAGGCTCTGAGCCCTG  
AACCAAAGTCCCAGAGCTGGGCTGGGACGTGACCTGTGCTGAGGGCTGTGAGAATGT

**ACGCGT**AAGCGGCCGCGCATCTAGATTCAAGAAAATGACCG

**Restriction Sites:** SgfI-MluI  
**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).  
**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.  
**RefSeq:** [NM\\_014291.3](#)



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**Summary:** The degradation of L-threonine to glycine consists of a two-step biochemical pathway involving the enzymes L-threonine dehydrogenase and 2-amino-3-ketobutyrate coenzyme A ligase. L-Threonine is first converted into 2-amino-3-ketobutyrate by L-threonine dehydrogenase. This gene encodes the second enzyme in this pathway, which then catalyzes the reaction between 2-amino-3-ketobutyrate and coenzyme A to form glycine and acetyl-CoA. The encoded enzyme is considered a class II pyridoxal-phosphate-dependent aminotransferase. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 14. [provided by RefSeq, Jan 2010]

**Locus ID:** 23464