

## Product datasheet for **SC329398**

### Guanylate kinase (GUK1) (NM\_001242840) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Guanylate kinase (GUK1) (NM\_001242840) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** GUK1  
**Synonyms:** GMK  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC329398 representing NM\_001242840.  
**Blue**=Insert sequence **Red**=Cloning site **Green**=Tag(s)

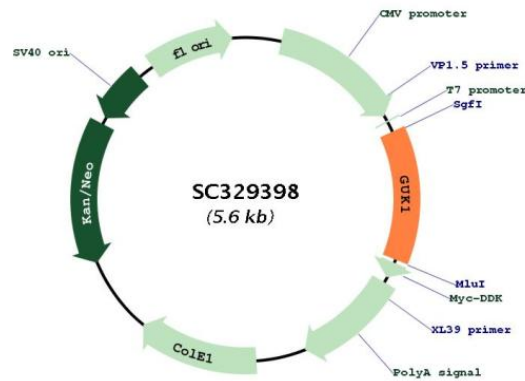
```
ATGCTGCGGCGCCCGCTGGCCGGGCTGGCTGCGGCCGCCCTGGGCCGGGCCACCGGACGGCATGTCTG
GGCCCCAGGCCTGTGGTGTGAGCGGGCCTTCGGGAGCTGGGAAGAGCACCCCTGCTGAAGAGGCTGCTC
CAGGAGCACAGCGGCATCTTTGGCTTCAGCGTGTCCCATACCACGAGGAACCCGAGGCCCGGCGAGGAG
AACGGCAAAGATTACTACTTTGTAACCAGGGAGGTGATGCAGCGTGACATAGCAGCCGGCGACTTCATC
GAGCATGCCGAGTTCTCGGGAACCTGTATGGCAGGCAAGGTGGCGGTGCAGGCCGTGCAGGCCATG
AACCGCATCTGTGTGCTGGACGTGGACCTGCAGGGTGTGCGGAACATCAAGGCCACCGATCTGCGGCC
ATCTACATCTCTGTGCAGCCGCCTTCACTGCACGTGCTGGAGCAGCGGCTGCGGCAGCGCAACACTGAA
ACCGAGGAGAGCCTGGTGAAGCGGCTGGCTGCTGCCAGGCCGACATGGAGAGCAGAAATCAAGAAAGC
TCAAAGGACCGCGCCTGAGGCTTGCTGTCTGTTCTCGGCACCCCGGGCCCATACAGGACCAGGGCAGC
AGCATTGAGCCACCCCTTGGCAGGCGATACGGCAGCTCTGTGCCCTTGCCAGCATGTGGAGTGGAGG
AGATGCTGCCCTGTGGTTGGAACATCCTGGGGTGA
```

**Restriction Sites:** Sgfl-MluI



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Plasmid Map:



**ACCN:** NM\_001242840

**Insert Size:** 726 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).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001242840.1</a>
<b>RefSeq Size:</b>	904 bp
<b>RefSeq ORF:</b>	726 bp
<b>Locus ID:</b>	2987
<b>UniProt ID:</b>	<a href="#">Q16774</a>
<b>Cytogenetics:</b>	1q42.13
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Purine metabolism
<b>MW:</b>	26.6 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is an enzyme that catalyzes the transfer of a phosphate group from ATP to guanosine monophosphate (GMP) to form guanosine diphosphate (GDP). The encoded protein is thought to be a good target for cancer chemotherapy. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]</p> <p>Transcript Variant: This variant (5) encodes the longest isoform (c). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>