

Product datasheet for **SC319492**

Guanylate kinase (GUK1) (NM_000858) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Guanylate kinase (GUK1) (NM_000858) Human Untagged Clone
Tag:	Tag Free
Symbol:	Guanylate kinase
Synonyms:	GMK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000858.4
GAGGTGGCCCCGGATGCTGCGGCGCCCGCTGGCCGGGCTGGCTGCGGCGCCCTGGGCCG
GGCCCCACCGGACGGCTTGCTGCTCTTTACCTGGGGTTGCTGTCGAGGACCCCTGTGCA
AGACTCGGCCGGTTTTTCTTCTCCCTGATGGACAGACCCAAACATAGCCGCGCAGCATC
GTGAAGGGCTGGGGCCTTCACTCCTCTGTGGCTCTGGAAGAGCCCGATTTCCTCAGGAGG
CATGTGCGGGCCCCAGGCCTGTGGTGTGAGCGGGCCTTCGGGAGCTGGGAAGAGCACCCCT
GCTGAAGAGGCTGCTCCAGGAGCACAGCGGCATCTTTGGCTTCAGCGTGTCCCATACCAC
GAGGAACCCGAGGCCCGGCGAGGAGAACGGCAAAGATTACTTTGTAACCAGGGAGGT
GATGCAGCGTGACATAGCAGCCGGCGACTTCATCGAGCATGCCGAGTTCTCGGGAACT
GTATGGCAGGAGCAAGGTGGCGGTGCAGGCCGTGCAGGCCATGAACCGCATCTGTGTGCT
GGACGTGGACCTGCAGGGTGTGCGGAACATCAAGGCCACCGATCTGCGGCCCATCTACAT
CTCTGTGCAGCCGCTTCACTGCAGTGTGGAGCAGCGGCTGCGGCAGCGCAACTGA
AACCGAGGAGAGCCTGGTGAAGCGGCTGGCTGCTGCCAGGCCGACATGGAGAGCAGCAA
GGAGCCCCGGCCTGTTGATGTGGTCATCATTAACGACAGCCTGGACCAGGCCTACGCAGA
GCTGAAGGAGGCGCTCTCTGAGGAAATCAAGAAAGCTCAAAGGACCGGCGCTGAGGCTT
GCTGTCTGTTCTCGGCACCCCGGGCCATACAGGACCAGGGCAGCAGATTGAGCCACCC
CCTTGGCAGGCGATACGGCAGCTCTGTGCCCTTGCCAGCATGTGGAGTGGAGGAGATGC
TGCCCCGTGGTTGGAACATCCTGGGGTGACCCCGACCCAGCCCTCGCTGGGCTGTCCCC
TGTCCCTATCTCTCACTCTGGACCCAGGGCTGACATCCTAATAAAATAACTGTTGGATTA
GAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_000858



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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:	NM_000858.4 , NP_000849.1
RefSeq Size:	1098 bp
RefSeq ORF:	594 bp
Locus ID:	2987
UniProt ID:	Q16774
Cytogenetics:	1q42.13
Domains:	Guanylate_kin, GuKc
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism
Gene Summary:	<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 (2) differs in the 5' UTR and coding sequence and contains an alternate coding exon in the 3' end compared to variant 5, that causes a frameshift. The resulting isoform (b) is shorter at the N-terminus and has a shorter and distinct C-terminus compared to isoform c. Variants 2, 3, and 4 all encode the same isoform.</p>