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Product datasheet for SC330026

Guanylate kinase (GUK1) (NM_001242839) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Guanylate kinase (GUK1) (NM_001242839) Human Untagged Clone

Tag: Tag Free

Symbol: GUK1

Synonyms: GMK

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC330026 representing NM_001242839.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGTCGGGCCCCAGGCCTGTGGTGCTGAGCGGGCCTTCGGGAGCTGGGAAGAGCACCCTGCTGAAGAGG
CTGCTCCAGGAGCACAGCGGCATCTTTGGCTTCAGCGTGTCCCATACCACGAGGAACCCGAGGCCCGGC
GAGGAGAACGGCAAAGATTACTACTTTGTAACCAGGGAGGTGATGCAGCGTGACATAGCAGCCGGCGAC
TTCATCGAGCATGCCGAGTTCTCGGGGAACCTGTATGGCACGAGCAAGGTGGCGGTGCAGGCCGTGCAG
GCCATGAACCGCATCTGTGTGCTGGACGTGGACCTGCAGGGTGTGCGGAACATCAAGGCCACCGATCTG
CGGCCCATCTACATCTCTGTGCAGCCGCCTTCACTGCACGTGCTGGAGCAGCGGCTGCGGCAGCGCAAC
ACTGAAACCGAGGAGAGCCTGGTGAAGCGGCTGGCTGCTGCCCAGGCCGACATGGAGAGCAGCAAGGAG
CCCGGCCTGTTTGATGTGGTCATCATTAACGACAGCCTGGACCAGGCCTACGCAGAGCTGAAGGAGGCG
CTCTCTGAGGAAATCAAGAAAGCTCAAAGGACCGGCGCCTGA

Restriction Sites: SgfI-MluI

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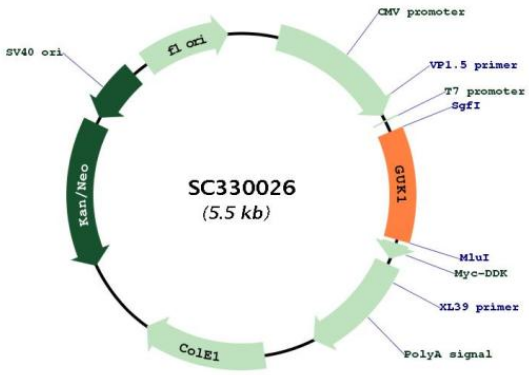
Plasmid Map:



ACCN:	NM_001242839
Insert Size:	594 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).

Reconstitution Method:	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_001242839.1
RefSeq Size:	930 bp
RefSeq ORF:	594 bp
Locus ID:	2987
UniProt ID:	Q16774
Cytogenetics:	1q42.13
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism
MW:	21.7 kDa
Gene Summary:	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] Transcript Variant: This variant (4) 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. 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.