

Product datasheet for **SC124293**

Deoxyguanosine kinase (DGUOK) (NM_080918) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Deoxyguanosine kinase (DGUOK) (NM_080918) Human Untagged Clone
Tag:	Tag Free
Symbol:	Deoxyguanosine kinase
Synonyms:	dGK; MTDPS3; NCPH; PEOB4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124293 sequence for NM_080918 edited (data generated by NextGen Sequencing) ATGGCCGCGGGCCGCCTCTTTCTAAGTCGGCTTCGAGCACCCCTTCAGTTCATGGCCAAG AGCCCACTCGAGGGCGTTTCTCTCCAGAGCCTGCACGCGGGCGCGGCCCGAAGG CTCTCCATCGAAGGCAACATTGCTGTGGGAAAGTCCACGTTTGTGAAGTTACTCACGAAA ACTTACCCAGAATGGCACGTAGCTACAGAACCTGTAGCAACATGGCAGAAATATCCAGGCT GCTGGCACCCAAAAGCCTGCACTGCCAAAAGTCTTGAAACTTGCTGGATATGATGTAC CGGGAGCCAGCACGATGGTCCTACACATTCCAGACATTTCTTTTTGAGCCGCCTGAAA GTACAGCTGGAGCCCTTCCCTGAGAACTTTACAGGCCAGGAAGCCAGTACAGATCTTT GAGAGGTCTGTACAGTGACAGGCTCCACTTTGAGGCTCTGATGAACATTCCAGTGCTG GTGTTGGATGCAATGATGATTTTTCTGAGGAAGTAACCAACAAGAAGACCTCATGAGA GAGGTAACACCTTTGTAAGAATCTGTAA

Clone variation with respect to NM_080918.1



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_080918 unedited GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGATCGCTGTGTGAATCG TGGGTGGGATGGCCGCGGCCCGCTCTTTCTAAGTCGGCTTCGAGCACCCCTTCAGTTCCA TGGCCAAGAGCCCACTCGAGGGCGTTTCTCCTCCAGAGGCTGCACGCGGGGCGGGGC CCCGAAGGCTCTCCATCGAAGGCAACATTGCTGTGGGAAAGTCCACGTTTGTGAAGTTAC TCACGAAAACCTACCCAGAATGGCACGTAGCTACAGAACCTGTAGCAACATGGCAGAATA TCCAGGCTGCTGGCACCCAAAAAGCCTGCACTGCCCAAAGTCTTGAAACTTGCTGGATA TGATGTACCGGGAGCCAGCACGATGGTCTACACATTCCAGACATTTTCTTTTTGAGCC GCCTGAAAGTACAGCTGGAGCCCTTCCCTGAGAACTCTTACAGGCCAGGAAGCCAGTAC AGATCTTTGAGAGGTCTGTGTACAGTGACAGGCTCCACTTTGAGGCTCTGATGAACATTC CAGTGCTGGTGTGGATGTCAATGATGATTTTTCTGAAGAAGTAACCAAACAAGAAGACC TCATGAGAGAGGTAACACCTTTGTGAAGAATCTGTAACCAATACCATGAAGTTCAGGCT GTGATCTGGGCTCCCTGACCTTCTGAAGCTAGAAAAATGGTGTGCTTCCAACCACCTT TCCATCCCAGCCCTTTCATTCTTGGAGCCACTCTGGCGCTCAAGAGCTGGGTTGGTAA TTATGGTTAGACCTTGCCATGGTTTCTTTGTACCTGAAGCATTTTGAAATAAAGTTAC CTAAGTTATGCCTGGTTTTCTTACAAAAAATAAAAAAATACTCGATCCTAAATTGCGGCC GCGGGCATAACTGTTTCTGACACGATCCCGGGGGGCTA
Restriction Sites:	NotI-NotI
ACCN:	NM_080918
Insert Size:	700 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:	<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_080918.1 , NP_550440.1
RefSeq Size:	880 bp
RefSeq ORF:	570 bp
Locus ID:	1716
UniProt ID:	Q16854
Cytogenetics:	2p13.1
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism

Gene Summary:

In mammalian cells, the phosphorylation of purine deoxyribonucleosides is mediated predominantly by two deoxyribonucleoside kinases, cytosolic deoxycytidine kinase and mitochondrial deoxyguanosine kinase. The protein encoded by this gene is responsible for phosphorylation of purine deoxyribonucleosides in the mitochondrial matrix. In addition, this protein phosphorylates several purine deoxyribonucleoside analogs used in the treatment of lymphoproliferative disorders, and this phosphorylation is critical for the effectiveness of the analogs. Alternative splice variants encoding different protein isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform 1.