

Product datasheet for **SC202657**

Deoxyguanosine kinase (DGUOK) (NM_080916) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Deoxyguanosine kinase (DGUOK) (NM_080916) Human 3' UTR Clone
Symbol:	Deoxyguanosine kinase
Synonyms:	dGK; MTDPS3; NCPH; PEOB4
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_080916
Insert Size:	240 bp
Insert Sequence:	>SC202657 3'UTR clone of NM_080916 The sequence shown below is from the reference sequence of NM_080916. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAA GCGATCGCC GAGGTAACACCTTTGTAAAGAATCTGT AA CCAATACCATGAAGTTCAGGCTGTGATCTGGGCTCCCTG ACTTTCTGAAGCTAGAAAAATGTTGTGTCTCCAACCACCTTTCCATCCCAGCCCCTCATCCCTGG AGCACTCTGCCGCTCAAGAGCTGGTTTGTAAATTATTGTTAGACTTTGCCATTGTTTTCTTTGTACCT GAAGCATTGTTGAAAATAAAGTTTACTTAAAGTTA ACGCGT AAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
Restriction Sites:	Sgfl-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:	<u>NM_080916.3</u>



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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]

Locus ID:

1716

MW:

8.9