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Product datasheet for SC321455

Deoxyguanosine kinase (DGUOK) (NM_080916) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Deoxyguanosine kinase (DGUOK) (NM_080916) Human Untagged Clone
Tag:	Tag Free
Symbol:	Deoxyguanosine kinase
Synonyms:	dGK; MTDPS3; NCPH; PEOB4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_080916 edited
ATCGCTGTGTGAATCGTGGGTGGGATGGCCGCGGGCCGCCTCTTTCTAAGTCGGCTTCGA
GCACCCTTCA GTTCCATGGCCAAGAGCCCACTCGAGGGCGTTTCCTCCTCCAGAGGCCT
GCACGCGGGGCGCGGGCCCCG AAGGCTCTCCATCGAAGGCAACATTGCTGTGGGAAAGT
CCACGTTTGTGAAGTTACTCACGAAAACTTAC CCAGAATGGCACGTAGCTACAGAACCT
GTAGCAACATGGCAGAATATCCAGGCTGCTGGCACCCAAAAAG CCTGCACTGCCCAAAG
TCTTGGAAACTTGCTGGATATGATGTACCGGGAGCCAGCACGATGGTCCTACAC ATTCC
AGACATTTTCCTTTTTGAGCCGCCTGAAAGTACAGCTGGAGCCCTTCCCTGAGAAACTCT
TACAG GCCAGGAAGCCAGTACAGATCTTTGAGAGGTCTGTGTACAGTGACAGGTATATC
TTTGCAAAGAATCTTT TTGAAAATGGTTCCCTCAGTGACATCGAGTGGCATATCTATCA
GGACTGGCATTCTTTTCTCCTGTGGGA GTTTGCCAGCCGGATCACATTACATGGCTTCA
TCTACCTCCAGGCTTCTCCCCAGGTTTGTTTGAAGAGA CTGTACCAGAGGGCCAGGGAG
GAGGAGAAAGGAATTGAGCTGGCCTATCTAGAGCAGCTGCATGGCCAAC ACGAAGCCTG
GCTTATTCACAAGACAACGAAGCTCCACTTTGAGGCTCTGATGAACATTCCAGTGCTGGT
GTTGGATGTCAATGATGATTTTTCTGAGGAAGTAACCAAACAAGAAGACCTCATGAGAG
AGGTAAACACC TTTGTAAAGAATCTGTAACCAATACCATGATGTTCAGGCTGTGATCTG
GGCTCCCTGACTTTCTGAAGCT AGAAAAATGTTGTGTCTCCCAACCACCTTTCCATCCC
CAGCCCCTCTCATCCCTGGAGCACTCTGCCGCT CAAGAGCTGGTTTGTTAATTATTGTT
AGACTTTGCCATTGTTTTCTTTTGTACCTGAAGCATTTTGAAAA TAAAGTTTACTTAAG
TTATGCTTGTTTTTCTAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_080916.1 unedited
GGACCATATGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACC
GAGGAGATCTGCCGCCGCGATCGCGGCGCGCCAGATCTCAAGCTTAACTAGTTAGCGGAC
CGACGCGTTAAGCGGCCGCGAATTCAGATCCACAAGTTTGTACAAAAAAGCAGGCTTGTA
AAACGACGGCCAGTAACTATAACGGTCCTAAGGTAGCGAGGCCTGGGTGGCGAATTCGGC
ACGAGGATCGCTGTGTGAATCGTGGGTGGGATGGCCGCGGGCCGCCTCTTTCTAAGTCGG
CTTCGAGCACCCTTCAGTTCCATGGCCAAGAGCCCACTCGAGGGCGTTTCCTCCTCCAGA
GGCCTGCACGCGGGGCGCGGGCCCCGAAGGCTCTCCATCGAAGGCAACATTGCTGTGGGA
AAGTCCACGTTTGTGAAGTTACTCACGAAAACTTACCCAGAATGGCACGTAGCTACAGAA
CCTGTAGCAACATGGCAGAATATCCAGGCTGCTGGCACCCAAAAAGCCTGCACTGCCCAA
AGTCTTGGAAACTTGCTGGATATGATGTACCGGGAGCCAGCACGATGGTCCTACACATTC
CAGACATTTTCCTTTTTGAGCCGCCTGAAAGTACAGCTGGAGCCCTTCCCTGAGAAACTC
TTACAGGCCAGGAAGCCAGTACAGATCTTTGAGAGGTCTGTGTACAGTGACAGGTATATC
TTTGCAAAGAATCCTTTTGAAAATGGTTCCCTCAGTGAAATCGAGTGGCATATCTATCAG
GACTGGCATTCTTTTCTCCTGGTGGGGAGTTTGCCAGCCGGATCACATACATGGCTCATT
CTACTCAGGCTTCTCCCAGTTTGTTTGAAGAGACTTGTACACAAAGGCAAGGAGGAGGAG
ACGTATGAACCTGGACTAATTCTTAGAGCAGCTGCATGGGTCACAACACGAGAGCCTGGC
TTAATCCACGGCAA
```

Restriction Sites: Please inquire

ACCN: NM_080916

Insert Size: 1100 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).

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_080916.1.

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_080916.1, NP_550438.1

RefSeq Size: 1144 bp

RefSeq ORF: 834 bp

Locus ID: 1716

UniProt ID: Q16854

Cytogenetics: 2p13.1

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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 (1) represents the longest transcript and encodes the longest isoform (a).

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