

Product datasheet for **RC223917L4V**

Deoxyguanosine kinase (DGUOK) (NM_080918) Human Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | Deoxyguanosine kinase (DGUOK) (NM_080918) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | Deoxyguanosine kinase |
| Synonyms: | dGK; MTDPS3; NCPH; PEOB4 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_080918 |
| ORF Size: | 567 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC223917). |
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| RefSeq: | NM_080918.1 |
| 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 |



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MW: 17.3 kDa

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]