

Product datasheet for **MC209781**

Dguok (NM_001162521) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dguok (NM_001162521) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dguok
Synonyms:	dGK; dGK1; dGK2; dGK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209781 representing NM_001162521 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCAGGTCGGTTCCTTCTGCGTCGTCTCCGAGCGTCTTTCCGTTCCCGCTGCGGAACGCGCTCG
TGGACGCGCCACACGCCAGGGCCATGCACGACGGGGCGGCCCCCGAAGGCTCTGCATTGAAGGCAACAT
CGCTGTGGCAAATCCACCTTTGTGAAGTTACTCATGAAAACACCCGGAGTGGCAGGTGGCGACAGAA
CCTATAGCAGAGTGGCAGAATATTCAGGCTGCTGGAGCCAAAAAGATGGCACTTCCAAACGTCTTGAA
ACTTGCTAGAAAATGATGTACCAGGAGCCAGCACGATGGTCTACACATTCCAGACCCTTTCTTTCATGAG
CCGTCTGAAGGTGCAGCTGGAGCCCATCCAGGGAGACTCCTGCAGGCAGAGAAGTCTGTGCGGGTCTTT
GAGAGGTCTGTGTACGTGACAGGTATATCTTTGCAAAGAATCTATTTGAAAATGGCTCCCTCAGTGACA
TCGAGTGGCACATCTATCAGGACTGGCACTCCTTCTCCTGCAGGAGTTCGCAAACCGGCTTTTGTGTTACA
CGGCTTCATCTATCTCCAGGCTTACCCAGGTTTGTATGGAGAGACTCTACCAGAGGGATAGAGAAGAA
GAAAAGGGCATTGAGCTGGCCTATCTTCAACAGCTACATAGTCAGCACGAAGACTGGTTTATTACAAGA
CTACCAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001162521
Insert Size:	711 bp



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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_001162521.1 , NP_001155993.1
RefSeq Size:	1010 bp
RefSeq ORF:	711 bp
Locus ID:	27369
Cytogenetics:	6 35.94 cM
Gene Summary:	<p>Phosphorylates deoxyguanosine and deoxyadenosine in the mitochondrial matrix, with the highest efficiency for deoxyguanosine. In non-replicating cells, where cytosolic dNTP synthesis is down-regulated, mtDNA synthesis depends solely on DGUOK and TK2. Phosphorylates certain nucleoside analogs. Widely used as target of antiviral and chemotherapeutic agents. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2), known as dGK-3, lacks an exon in the coding region, which results in a frameshift and an early stop codon compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus compared to isoform 1.</p>