

Product datasheet for **MC209782**

Dguok (NM_013764) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dguok (NM_013764) Mouse Untagged Clone
Tag: Tag Free
Symbol: Dguok
Synonyms: dGK; dGK1; dGK2; dGK3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209782 representing NM_013764
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGCAGGTCGGTTCCTTCTGCGTCGTCTCCGAGCGTCTTCCGTTCCCGCTGCGGAACGCGCTCG
 TGGACGCGCCACACGCCAGGGCCATGCACGACGGGGCGGCCCGAAGGCTCTGCATTGAAGGCAACAT
 CGCTGTGGGCAAATCCACCTTTGTGAAGTTACTCATGAAAACACCCGGAGTGGCAGGTGGCGACAGAA
 CCTATAGCAGAGTGGCAGAAATATTCAGGCTGCTGGAGCCAAAAAGATGGCACTTCCAAACGTCTTGAA
 ACTTGCTAGAAATGATGTACCAGGAGCCAGCAGATGGTCTACACATCCAGACCTTTCTTTTCATGAG
 CCGTCTGAAGGTGCAGCTGGAGCCATCCAGGGAGACTCCTGCAGGCAGAGAAGTCTGTGCGGGTCTTT
 GAGAGGTCTGTGTACAGTACAGGTATATCTTTGCAAAGAATCTATTTGAAAATGGCTCCCTCAGTGACA
 TCGAGTGGCACATCTATCAGGACTGGCACTCCTTTCTCCTGCAGGAGTTCGCAAACCGGCTTTTGTACA
 CGGCTTCATCTATCTCCAGGCTTACCCAGGTTTGTATGGAGAGACTCTACCAGAGGGATAGAGAAGAA
 GAAAAGGGCATTGAGCTGGCCTATCTTCAACAGCTACATAGTCAGCACGAAGACTGGTTTATTAACAAGA
 CTACCAAGCTCCACTTCGAAGCTCTGCAGCAGTGCCAGTGTGGTCTGGATGCTCACTGAAGACTCTC
 TGAATGCCCGCCAGGCAGGAAGAGCTCATGGACAGGTGAACACCTTTATGAGGAACCTG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_013764
Insert Size: 834 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_013764.2 , NP_038792.2
RefSeq Size:	1110 bp
RefSeq ORF:	834 bp
Locus ID:	27369
UniProt ID:	Q9QX60
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 (1), known as dGK-1, represents the longer transcript and encodes the longer isoform (1).</p>