

Product datasheet for **MR230480**

Gk (NM_001294138) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gk (NM_001294138) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gk
Synonyms:	D930012N15Rik; Gyk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230480 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCCGCGAAGAAAGCAGTTCTGGGGCCATTGGTGGGAGCAGTGGACCAGGTACCAGCTCGACAC
 GTTTTTGGTTTTCAATTCAAAAACAGCTGAACCTCTTAGTCATCATCAAGTAGAAAATAAACAGGAATT
 CCCAAGAGAAGGATGGGTAGAACAAGACCCGAAGGAAATCTGCAGTCTGTTTATGAGTGTATAGAGAAA
 ACGTGTGAGAAACTTGGACAGCTCAATATTGATATTTCCAACATCAAAGCCATTGGTGTGACGAACCAGA
 GGGAAACCACAGTAGTCTGGGACAAGGTCACCGGAGAGCCTCTATAATGCCGTGGCTGCTCCAGTTTC
 TCCTGGCTCTTCAGTCCAGTTCGCGTTGTCCCCTCTGGCTCTTCAGTCCAGCTGCTGGTGCTTCTCA
 GTGTGGCTTGACCTAAGAACCAGTCTACTGTTGAGAACCTTAGTAAAAGAATCCAGGAAATAATAACT
 TTGTCAAGTCCAAGACAGGCCTTCCACTAGCACGTATTTAGTGCAGTAAAACCTCGTTGGCTCCTTGA
 CAACGTGAAAAAGTCCAAGAGGCTGTTGAAGAAAATAGAGCTCTTTTTGGGACCATTGATTCATGGCTT
 ATTTGGAGTTAACAGGAGGAATCCATGGGGGTGCCACTGTACAGATGTAAACAATGCAAGCAGGACGA
 TGCTTTTTAACATTCATTCTTTGGAATGGGATAAAGAGCTCTGCGAATTTTTTGGAATCCAATGGAAT
 TCTTCCCAACGTTTCGGAGTTCTTCTGAGATCTATGGCCTAATGAAAGCTGGGGCCTTGGAAAGGTGTACCA
 ATATCTGGGTGTTTGGGGACCAGTCTGCTGCTTTGGTGGGACAAATGTGCTTCCAGGATGGACAGGCCA
 AAAACAGTATGGAACAGGGTGTCTTATTGTGCAACACGGGCCATAAGTGTGATTTTTCTGAACATGG
 CCTCTGACAACCGTAGCATATAAAGTGGCAGAGACAACTGTGTATTATGCGTTGGAAGGTTCCCGTG
 GCTATAGCTGGTGTGTAATCCGCTGGCTAAGAGACAACCTTGAATTATTAAGTCCCTCTGAGGAAATG
 AAAAAGTCTAAGGAAGTAGTACTTCTTATGGCTGCTACTTCCAGCATTTCAGGGTTATATGC
 GCCTTATTGGGAGCCAGTGAAGAGGGATCATCTGTGGACTCACTCAGTTCACCAATAAATGTCATATC
 GCTTTTGTGCTAGAGCTGTTTGTTCCAAACCCGAGAGATTTGGATGCCATGAATCGCGACTGTG
 GAATTCAGTCACTTACAGGTAGATGGAGGAATGACCAGCAATAAAATCTTATGCAGCTACAAGC
 AGACATTCTGTATATTCCAGTAGTAAAACCTCCATGCCTGAAACAAGTCACTAGGCGCTGCCATGGCA
 GCTGGGGCTGCAGAGGGGTTGGTGTGTGGAGTCTTGAACCTGAGGATTTGTCAGCTGTACAATGGAGC
 GGTTTGAACCTCAGATCAATGCTGAAGAAAGCGAAATCCGTTACTCCACATGGAAGAAAGCTGTGATGAA
 GTCATTTGGTTGGTTACAACCTCAGTCTCCAGAAAGTGGTATCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230480 protein sequence
 Red=Cloning site Green=Tags(s)

MAAAKKAVLGPLVGAVDQGSSTRFLVFNSKTAELLSHHQVEIKQEFREGWVEQDPKEILQSVYECIEK
 TCEKLGQLNIDISNIKAI GVSNQRETTVVWDKVTGEPL YNAVAAPVSPGSSVPVAVVPSGSSVPAAGASS
 VWL DLRTQSTVENL SKRIPGNNFVKSTGLPLSTYFSAVKLRWLLDNVKKVQEA VEENRALFGTIDSWL
 IWSLTGGIHGGVHCTDVTNASRMLFNIHSLEWDKELCEFFGIPMEILPNVRSSEIYGLMKAGALEGVP
 ISGCLGDQSAALVGQMCQDQAKNTYGTGCFLLCNTGHKCVFSEHLLTTVAYKLRDKPVPYYALEGSV
 AIAGAVIRWLRDNLGIKSSEEIEKLAKEVGTSGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHI
 AFAALEAVCFQTREILDAMNRDCGIPLSHLQVDGGMTSNKILMQLQADILYIPVVKPSPMPETTALGAAMA
 AGAAEGVGWVSLPEPDL SAVTMERFEPQINAEESEIRYSTWKKAVMKSIGWVTTQSPESGIP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001294138

ORF Size: 1656 bp

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.

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_001294138.1](#), [NP_001281067.1](#)

RefSeq Size: 4441 bp

RefSeq ORF: 1659 bp

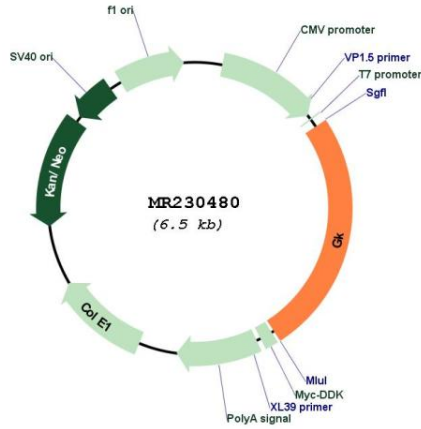
Locus ID: 14933

Cytogenetics: X 39.32 cM

MW: 59.8 kDa

Gene Summary: Key enzyme in the regulation of glycerol uptake and metabolism.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230480