

Product datasheet for **MR208395**

Gk (NM_008194) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gk (NM_008194) 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:

>MR208395 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGCCGCGAAGAAAGCAGTTCTGGGGCCATTGGTGGGAGCAGTGGACCAGGTACCAGCTCGACAC
 GTTTTTGGTTTTCAATTCAAAAACAGCTGAACCTCTTAGTCATCATCAAGTAGAAATAAAAACAGGAATT
 CCCAAGAGAAGGATGGGTAGAACAAGACCCGAAGGAAATCTGCAGTCTGTTTATGAGTGTATAGAGAAA
 ACGTGTGAGAAACTTGGACAGCTCAATATTGATATTTCCAACATCAAAGCCATTGGTGTGACGAACCAGA
 GGGAAACCACAGTAGTCTGGGACAAGGTACCCGGAGAGCCTCTATAATGCCGTGGTGTGGCTTGACCT
 AAGAACCAGTCTACTGTTGAGAACCTTAGTAAAAGAATCCAGGAAATAATAACTTTGTCAAGTCCAAG
 ACAGGCCCTCCACTTAGCACGATTTTCAGTGCAGTGAACCTTCGTTGGCTCCTTGACAACGTGAAAAAGG
 TCCAAGAGGCTGTTGAAGAAAAAGAGCTCTTTTGGGACCATTGATTCATGGCTTATTTGGAGTTAAC
 AGGAGGAATCCATGGGGGTGCCACTGTACAGATGTAACAAATGCAAGCAGGACGATGCTTTTTAACATT
 CATTCTTTGGAATGGGATAAAGAGCTCTGCGAATTTTTTGGAAATCCAATGGAAATCTTCCAAGGTTT
 GGAGTTCTTCTGAGATCTATGGCCTAATGAAAGCTGGGGCCTTGAAGGTGTACCAATATCTGGGTGTT
 GGGGGACCACTGCTGCTTTGGTGGGACAAATGTGCTTCCAGGATGGACAGGCCAAAAACAGTATGGA
 ACAGGGTGCTTCTATTGTGCAACACGGGCCATAAGTGTGATTTTTCTGAACATGGCCTCCTGACAACCG
 TAGCATATAAACTTGGCAGAGACAAACCTGTGTATTATGCGTTGGAAGGTTCCGTGGCTATAGCTGGTGC
 TGTAATCCGCTGGCTAAGAGACAACCTTGAATATTAAGTCCTCTGAGGAAATGAAAACTTGCTAAG
 GAAGTAGTACTTCTTATGGCTGCTACTCGTTCCAGCATTTCAGGGTTATATGCGCTTATTGGGAGC
 CCAGTGCAAGAGGATCATCTGTGGACTCACTCAGTTCACCAATAAATGCATATCGCTTTTGGTGCAGT
 AGAAGCTGTTTTTCCAACCCGAGAGATTTTGGATGCCATGAATCGCGACTGTGGAATCCACTCAGT
 CATTACAGGTAGATGGAGGAATGACCAGCAATAAAATCTTATGCAGCTACAAGCAGACATTCTGTATA
 TTCCAGTAGTGAACCTCCATGCCTGAAACAACCTGCACTAGGCGCTGCCATGGCAGCTGGGGCTGCAGA
 GGGGGTTGGTGTGGAGTCTTGAACCTGAGGATTTGTCAGCTGTCACAATGGAGCGGTTTGAACCTCAG
 ATCAATGCTGAAGAAAGCGAAATCCGTTACTCCACATGGAAGAAAGCTGTGATGAAGTCAATTGTTGGG
 TTACAACCTCAGTCTCCAGAAAGTGGTATCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208395 protein sequence
 Red=Cloning site Green=Tags(s)

MAAAKKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELL SHHQVEIKQEFREGWVEQDPKEILQSVYECIEK
 TCEKLGQLNIDISNIKAIGVSNQRETTVVWDKVTGEPLYNNAVWLDLRTQSTVENLSKRIPGNNNFVKSK
 TGLPLSTYFSAVKLRWLLDNVKKVQEAVEENRALFGTIDSWLIWLSLTGGIHHGGVHCTDVTNASRTMLFNI
 HSLEWDKELCEFFGIPMEILPNVRSSEIYGLMKAGALEGVPI SGCLGDQSAALVQMQCFDQGAQNTYG
 TGCFLCNTGHKCVFSEHGLLTTVAYKLRDTPVYVALEGSVAIAGAVIRWLRDNLGIKSSEEIEKLAK
 EVGTSYGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCFQTRREILDAMNRDCGIPLS
 HLQVDGGMTSNKILMLQADILYIPVVKPSPMETTALGAAMAAGAAEAGVGVWSLEPEDLSAVTMERFEPQ
 INAESEIRYSTWKKAVMKSIGWVTTQSPESGIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_008194

ORF Size: 1575 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_008194.3](#), [NP_032220.1](#)

RefSeq Size: 4357 bp

RefSeq ORF: 1575 bp

Locus ID: 14933

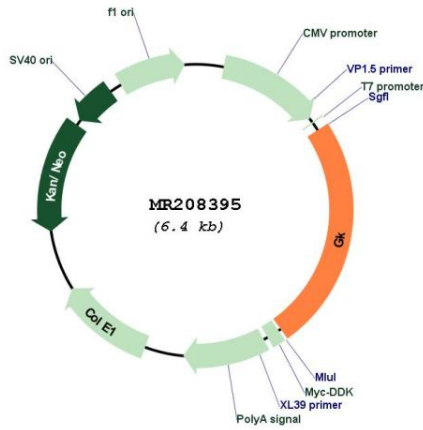
UniProt ID: [Q64516](#)

Cytogenetics: X 39.32 cM

MW: 57.5 kDa

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

Product images:



Circular map for MR208395