

Product datasheet for **MR230516**

Gk (NM_001294140) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gk (NM_001294140) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gk
Synonyms:	D930012N15Rik; Gyk
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230516 representing NM_001294140
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGCCGCGAAGAAAGCAGTTCTGGGGCCATTGGTGGGAGCAGTGGACCAGGTACCAGCTCGACAC
 GTTTTTGGTTTTCAATTCAAAAACAGCTGAACCTCTTAGTCATCATCAAGTAGAAATAAAAACAGGAATT
 CCCAAGAGAAGGATGGGTAGAACAAGACCCGAAGGAAATTCGCACTGTTTATGAGTGTATAGAGAAA
 ACGTGTGAGAAACTTGGACAGCTCAATATTGATATTTCCAACATCAAAGCCATTGGTGTGACCAACCAGA
 GGGAAACCACAGTAGTCTGGGACAAGGTACCCGGAGAGCCTCTATAATGCCGTGGTGTGGCTTGACCT
 AAGAACCAGTCTACTGTTGAGAACCTTAGTAAAAGAATCCAGGAAATAATAACTTTGTCAAGTCCAAG
 ACAGGCCCTCCACTTAGCACGTATTTAGTGCAGTGAACCTTCGTTGGCTCCTTGACAACGTGAAAAAGG
 TCCAAGAGGCTGTTGAAGAAAAAGAGCTCTTTTGGGACCATTGATTCATGGCTATTTGGAGTTTAA
 AGGAGGAATCCATGGGGGTGCCACTGTACAGATGTAACAAATGCAAGCAGGACGATGCTTTTTAACATT
 CATTCTTTGGAATGGGATAAAGAGCTCTGCGAATTTTTGGAATTCCAATGGAAATCTTCCAACGTTCC
 GGATTTCTCTGAGATCTATGGCCTAATGAAAATCTCTCATAGCCTGAAAGCTGGGGCCTTGAAGGTGT
 ACCAATATCTGGGTGTTGGGGGACCAGTCTGCTGCTTTGGTGGGACAAATGTGCTTCCAGGATGGACAG
 GCCAAAAACACGTATGGAACAGGGTCTTCTATTGTGCAACACGGGCCATAAGTGTGATTTTTCTGAAC
 ATGGCCTCCTGACAACCGTAGCATATAAACTTGGCAGAGACAAACCTGTGATTTATGCGTTGGAAGTTC
 CGTGGCTATAGCTGGTGTGTAATCCGCTGGCTAAGAGACAACCTTGAATTTAAGTCTCTGAGGAA
 ATTGAAAACTTGCTAAGGAAGTAGTACTTCTTATGGCTGCTACTTCGTTCCAGCATTTCAGGGTTAT
 ATGCGCTTATTGGGAGCCCAAGTCAAGAGGGATCATCTGTGGACTCACTCAGTTCACCAATAAATGTCAT
 TATCGCTTTTGGTGCCTAGAAGCTGTTTGTTCCAAACCCGAGAGATTTGGATGCCATGAATCGCGAC
 TGTGGAATTCCTCAGTCATTTACAGGTAGTGGAGGAATGACCAGCAATAAAATTTCTTATGCAGCTAC
 AAGCAGACATTCTGTATTTCCAGTAGTGAACCCCTCCATGCCTGAAACAACCTGCACTAGGCGCTGCCAT
 GGCAGCTGGGGTGCAGAGGGGTTGGTGTGTGGAGTCTTGAACCTGAGGATTTGTGAGCTGTCACAATG
 GAGCGTTTGAACCTCAGATCAATGCTGAAGAAAGCGAAATCCGTTACTCCACATGGAAGAAAGCTGGA
 TGAAGTCAATTGGTTGGTTACAACCTCAGTCTCCAGAAAGTGGTACCCTAGTATCTTCTGTAGTCTGCC
 TTTGGCTTTTTATAGTGAGTAGCATGGTAATGTTAATCGGAGCAAGGTACATCTCAGGTATCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230516 representing NM_001294140
 Red=Cloning site Green=Tags(s)

MAAAKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELLSHHQVEIKQEFPREGWVEQDPKEILQSVYECIEK
 TCEKLGQLNIDISNIKAIGVSNQRETTVVWDKVTGEPLYNVAVWLDLRTQSTVENLSKRIPGNNNFVKSK
 TGLPLSTYFSAVKLRWLLDNVKKVQEAVEENRALFGTIDSWLIWLSLGGIHHGGVHCTDVTNASRTMLFNI
 HSLEWDKELCEFFGIPMEILPNVRSSEIYGLMKISHSLKAGALEGVPIISGCLGDQSAALVGQMCFDGQ
 AKNTYGTGCFLLCNTGHKCVFSEHGLLTTVAYKLRDVKPYYVALEGSVAIAGAVIRWLRDNLGIKSSEE
 IEKLAKEVGTSGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCFQTREILDAMNRD
 CGIPLSHLQVDGGMTSNKILMQLQADILYIPVVKPSPMETTALGAAMAAGAAEGVGVWSLEPEDLSAVTM
 ERFEPQINAESEIRYSTWKKAVMKSIGWVTTQSPESGDPSIFCSLPLGFFIVSSMVMLIGARYISGIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

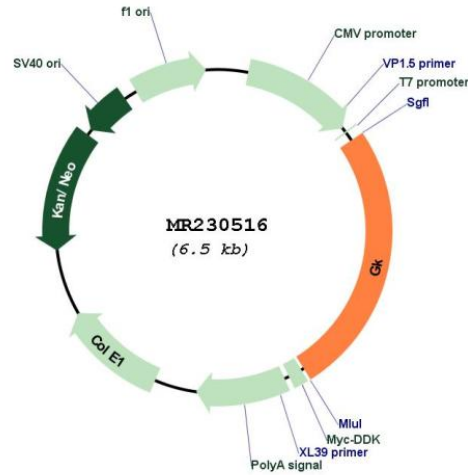
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001294140
ORF Size:	1677 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:	<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_001294140.1 , NP_001281069.1
RefSeq Size:	4462 bp
RefSeq ORF:	1680 bp
Locus ID:	14933
UniProt ID:	Q64516
Cytogenetics:	X 39.32 cM
MW:	61.7 kDa
Gene Summary:	Key enzyme in the regulation of glycerol uptake and metabolism.[UniProtKB/Swiss-Prot Function]