

## Product datasheet for **MR219137**

### **Gk (NM\_212444) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gk (NM_212444) 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:**

>MR219137 representing NM\_212444  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGCCGCGAAGAAAGCAGTTCTGGGGCCATTGGTGGGAGCAGTGGACCAGGTACCAGCTCGACAC  
 GTTTTTGGTTTTCAATTCAAAAACAGCTGAACCTCTTAGTCATCATCAAGTAGAAATAAAAACAGGAATT  
 CCCAAGAGAAGGATGGGTAGAACAAGACCCGAAGGAAATCTGCAGTCTGTTTATGAGTGTATAGAGAAA  
 ACGTGTGAGAAACTTGGACAGCTCAATATTGATATTTCCAACATCAAAGCCATTGGTGTGACGAACCAGA  
 GGGAAACCACAGTAGTCTGGGACAAGGTACCCGGAGAGCCTCTATAATGCCGTGGTGTGGCTTGACCT  
 AAGAACCAGTCTACTGTTGAGAACCTTAGTAAAAGAATCCAGGAAATAATAACTTTGTCAAGTCCAAG  
 ACAGGCCCTCCACTTAGCACGATTTTCAGTGCAGTGAACCTTCGTTGGCTCCTTGACAACGTGAAAAAGG  
 TCCAAGAGGCTGTTGAAGAAAAAGAGCTCTTTTGGGACCATTGATTCATGGCTATTTGGAGTTAAAC  
 AGGAGGAATCCATGGGGGTGCCACTGTACAGATGTAACAAATGCAAGCAGGACGATGCTTTTTAACATT  
 CATTCTTTGGAATGGGATAAAGAGCTCTGCGAATTTTTGGAATTCGAATGGAAATCTTCCCAAGTTC  
 GGAGTTCTTCTGAGATCTATGGCCTAATGAAAGCTGGGGCCTTGAAGGTGTACCAATATCTGGGTGTT  
 GGGGGACCACTGCTGCTTTGGTGGGACAAATGTGCTTCCAGGATGGACAGGCCAAAAACAGTATGGA  
 ACAGGGTGCTTCTATTGTGCAACACGGGCCATAAGTGTGATTTTTCTGAACATGGCCTCCTGACAACCG  
 TAGCATATAAACTGGCAGAGACAAACCTGTGTATTATGCGTTGGAAGGTTCCGTGGCTATAGCTGGTGC  
 TGTAATCCGCTGGCTAAGAGACAACCTTGAATATTAAGTCCTCTGAGGAAATGAAAACTTGCTAAG  
 GAAGTAGTACTTCTTATGGCTGCTACTCGTTCCAGCATTTCAGGGTTATATGCGCCTTATTGGGAGC  
 CCAGTGCAGAGGGATCATCTGTGGACTCACTCAGTTCACCAATAAATGCATATCGCTTTTGGGACT  
 AGAAGCTGTTTGTTCCAAACCCGAGAGATTTTGGATGCCATGAATCGCGACTGTGGAATCCACTCAGT  
 CATTACAGGTAGATGGAGGAATGACCAGCAATAAAATCTTATGCAGCTACAAGCAGACATTCTGTATA  
 TTCCAGTAGTGAACCCCTCCATGCCTGAAACAACCTGCACTAGGCGCTGCCATGGCAGCTGGGGCTGCAGA  
 GGGGGTGGTGTGGAGTCTTGAACCTGAGGATTTGTCAGCTGTCACAATGGAGCGGTTTGAACCTCAG  
 ATCAATGCTGAAGAAAGCGAAATCCGTTACTCCACATGGAAGAAAGCTGTGATGAAGTCAATTGGTTGGG  
 TTACAACCTCAGTCTCCAGAAAGTGGTACCCTAGTATCTTCTGTAGTCTGCCTTTGGGCTTTTTATAGT  
 GAGTAGCATGGTAATGTTAATCGGAGCAAGGTACATCTCAGGTATCCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR219137 representing NM\_212444  
 Red=Cloning site Green=Tags(s)

MAAAKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELLSHHQVEIKQEFPREGWVEQDPKEILQSVYECIEK  
 TCEKLGQLNIDISNIKAIGVSNQRETTVVWDKVTGEPLYNNAVWLDLRTQSTVENLSKRIPGNNNFVKSK  
 TGLPLSTYFSAVKLRWLLDNVKKVQEAVEENRALFGTIDSWLIWSLTGGIHGGVHCTDVTNASRMLFNI  
 HSLEWDKELCEFFGIPMEILPNVRSSEIYGLMKAGALEGVPI SGCLGDQSAALVGQMCFDGQAKNTYG  
 TGCFLLCNTGHKCVFSEHGLLTTVAYKLRDVKPYYYALEGSVAIAGAVIRWLRDNLGIKSSEIEKLAKE  
 EVGTSYGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCFQTRREILDAMNRDCGIPLS  
 HLQVDGGMTSNKILMQLQADILYIPVVKPSMPETTALGAAMAAGAAEGVGVWSLEPEDLSAVTMERFEPQ  
 INAESEIRYSTWKKAVMKSIGWVTTQSPESGDPSIFCSLPLGFFIVSSMVMLIGARYISGIP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

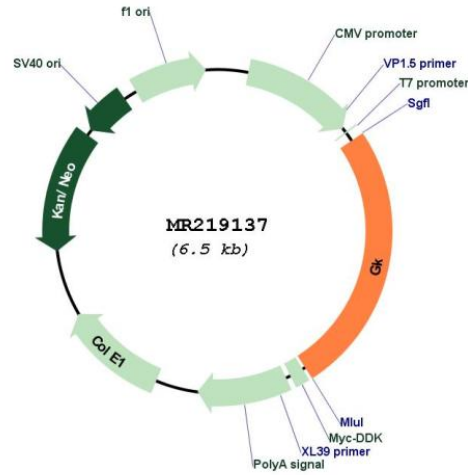
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_212444
<b>ORF Size:</b>	1659 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_212444.2</a> , <a href="#">NP_997609.1</a>
<b>RefSeq Size:</b>	4427 bp
<b>RefSeq ORF:</b>	1662 bp
<b>Locus ID:</b>	14933
<b>UniProt ID:</b>	<a href="#">Q64516</a>
<b>Cytogenetics:</b>	X 39.32 cM
<b>MW:</b>	61 kDa
<b>Gene Summary:</b>	Key enzyme in the regulation of glycerol uptake and metabolism.[UniProtKB/Swiss-Prot Function]