

## Product datasheet for **MG219137**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gk (NM_212444) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gk
Synonyms:	D930012N15Rik; Gyk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG219137 representing NM\_212444  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGCCGCGAAGAAAGCAGTTCTGGGGCCATTGGTGGGAGCAGTGGACCAGGTACCAGCTCGACAC  
 GTTTTTGGTTTTCAATTCAAAAACAGCTGAACCTCTTAGTCATCATCAAGTAGAAATAAAAACAGGAATT  
 CCCAAGAGAAGGATGGGTAGAACAAGACCCGAAGGAAATCTGCAGTCTGTTTATGAGTGTATAGAGAAA  
 ACGTGTGAGAAACTTGGACAGCTCAATATTGATATTTCCAACATCAAAGCCATTGGTGTGACGAACCAGA  
 GGGAAACCACAGTAGTCTGGGACAAGGTACCCGGAGAGCCTCTATAATGCCGTGGTGTGGCTTGACCT  
 AAGAACCAGTCTACTGTTGAGAACCTTAGTAAAAGAATCCAGGAAATAATAACTTTGTCAAGTCCAAG  
 ACAGGCCCTCCACTTAGCACGATTTTCAGTGCAGTGAACCTTCGTTGGCTCCTTGACAACGTGAAAAAGG  
 TCCAAGAGGCTGTTGAAGAAAAAGAGCTCTTTTGGGACCATTGATTCATGGCTTATTTGGAGTTAAC  
 AGGAGGAATCCATGGGGGTGCCACTGTACAGATGTAACAAATGCAAGCAGGACGATGCTTTTTAACATT  
 CATTCTTTGGAATGGGATAAAGAGCTCTGCGAATTTTTTGGAAATCCAATGGAAATCTTCCCAAGTTC  
 GGAGTTCTTCTGAGATCTATGGCCTAATGAAAGCTGGGGCCTTGAAGGTGTACCAATATCTGGGTGTT  
 GGGGGACCACTGCTGCTTTGGTGGGACAAATGTGCTTCCAGGATGGACAGGCCAAAAACAGTATGGA  
 ACAGGGTGCTTCTATTGTGCAACACGGGCCATAAGTGTGTATTTTCTGAACATGGCCTCCTGACAACCG  
 TAGCATATAAACTTGGCAGAGACAAACCTGTGTATTATGCGTTGGAAGGTTCCGTGGCTATAGCTGGTGC  
 TGTAATCCGCTGGCTAAGAGACAACCTTGAATATTAAGTCTCTGAGGAAATGAAAACTTGCTAAG  
 GAAGTAGTACTTCTTATGGCTGCTACTCGTTCCAGCATTTCAGGGTTATATGCGCCTTATTGGGAGC  
 CCAGTCCAAGAGGATCATCTGTGGACTCACTCAGTTCACCAATAAATGCATATCGCTTTTGGTGCAT  
 AGAAGCTGTTTGTTCCTCAAAACCCGAGAGATTTTGGATGCCATGAATCGCGACTGTGGAATCCACTCAGT  
 CATTACAGGTAGATGGAGGAATGACCAGCAATAAAATCTTATGCAGCTACAAGCAGACATTCTGTATA  
 TTCCAGTAGTGAACCCCTCCATGCCTGAAACAACCTGCACTAGGCGCTGCCATGGCAGCTGGGGCTGCAGA  
 GGGGGTGGTGTGGAGTCTTGAACCTGAGGATTTGTCAGCTGTCACAATGGAGCGGTTTGAACCTCAG  
 ATCAATGCTGAAGAAAGCGAAATCCGTTACTCCACATGGAAGAAAGCTGTGATGAAGTCAATTGGTTGGG  
 TTACAACCTCAGTCTCCAGAAAGTGGTACCCTAGTATCTTCTGTAGTCTGCCTTTGGGCTTTTTTATAGT  
 GAGTAGCATGGAATGTTAATCGGAGCAAGGTACATCTCAGGTATCCCA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG219137 representing NM\_212444  
 Red=Cloning site Green=Tags(s)

MAAAKKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELL SHHQVEIKQEFREGWVEQDPKEILQSVYECIEK  
 TCEKLGQLNIDISNIKAIGVSNQRETTVVWDKVTGEPLYNNAVWLDLRTQSTVENLSKRIPGNNNFVKS  
 TGLPLSTYFSAVKLRWLLDNVKKVQEAVEENRALFGTIDSWLIWLSLGGIHHGGVHCTDVTNASRTMLFNI  
 HSLEWDKELCEFFGIPMEILPNVRSSEIYGLMKAGALEGVPI SGCLGDQSAALVQMCQFQDQAKNTYG  
 TGCFLCNTGHKCVFSEHLLTTVAYKLRDKPYYYYALEGSVAIAGAVIRWLRDNLGIIKSSEEIEKLAK  
 EVGTSYGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCFQTREILDAMNRDCGIPLS  
 HLQVDGGMTSNKILMQLQADILYIPVVKPSPMETTALGAAMAAGAAEGVGVWSLEPEDLSAVTMERFEPQ  
 INAESEIRYSTWKKAVMKSIGWVTTQSPESGDPSIFCSLPLGFFIVSSMVMLIGARYISGIP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



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