

## Product datasheet for **MC218944**

### Gk2 (NM\_010294) Mouse Untagged Clone

#### Product data:

|                    |                                      |
|--------------------|--------------------------------------|
| Product Type:      | Expression Plasmids                  |
| Product Name:      | Gk2 (NM_010294) Mouse Untagged Clone |
| Tag:               | Tag Free                             |
| Symbol:            | Gk2                                  |
| Synonyms:          | Gk-rs2; GKTA                         |
| Vector:            | pCMV6-Entry (PS100001)               |
| E. coli Selection: | Kanamycin (25 ug/mL)                 |
| Cell Selection:    | Neomycin                             |



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**Fully Sequenced ORF:** >MC218944 representing NM\_010294  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGCCTCGAAGCAAACCTCTGCGGGACCGTTGGTAGGAGCGGTGGTCCAGGGAACCAACTCCACTC  
 GCTTTCTAGTTTTCAATAGCAAAACAGCAGAAGCTAGTTTGCTCTCATCAGGTGGAAGTACACAAGAATA  
 CCCAAAAGAAGGATGGGTGGAGCAAGACCCCAAGGAAATCCTTAAATCTGTCTATGAGTGATAGCGAAA  
 GCTTGTGAGAACTTGCTGAAGTGAACATTGATATTTCCAACATTAAGCTATCGGCGTGAGTAACCAGC  
 GGGAAACCACTGTGGTCTGGGACAAGTTCACGGGAGACCCCTGTACAATGCCGTGGTGTGGCTTGTCT  
 CAGAACCAGTCTACTGTGGAGACTCTCACTAAGAAAATCCAGGAAATAGCAACTTTGTCAAGTCTAAG  
 ACCGGCCTTCTTCTAGCACTTACTTCAGTGTGTGAAGCTGCGGTGGATGCTGGACAACCTAAGACCCA  
 TTCAAAGGCTGTTGAGGAAGGCAGAGCCATGTTTGAACCATCGACTCTGGCTCATCTGGTGTATGAC  
 CGGAGGAGTCAATGGAGGCATCCATTGCACCGATGTAACAAATGCATGCAGAACGATGCTTTTTAACATC  
 CACTCTTTGGAATGGGATAAAGATCTCTGTGACTTTTTTGAATTCCAATGAGCATCCTCCCAAATGTAT  
 GCAGTTCTTCTGAGATCTATGGCCTGATGACATCAGGGGCCTTGAAGGCGTGCCAAATATCTGGATGTT  
 GGGGGATCAGTCTGCTGCTTTAGTGGGACAAATGTGTTTCCATGAAGGTCAAGCCAAAAACATACGGA  
 ACAGGCTGTTTTTACTATGTAATACAGGCCAGAAATGTGTGTTTCTGAACATGGCCTTCTGACCACAT  
 TGGCTTACAACTAGGCCAAAAAAGCCAGTTTTTATGCCTTAGAAGGTTCTGTTGCTATAGCTGGTGC  
 TGTTATTCGCTGGCTAAGAGACAATTCGAAATATAACAACCTCAGGGGAAGTTGAAAATCTTGCAAGA  
 GAGGTAGGCATTCCTATGGCTGCTACTTTGTCCAGCCTTTTCGGGGCTGTATGCACCTTACTGGGAAC  
 CCAGTGCAAGAGGATAATCTGTGGTCTCACTCAGTTCACCAACAAATGCCATATTGCCTTTGCTGCGTT  
 AGAAGCTGTTTGTTCCAAACCCGAGAGATTTTGGATGCCATGAATCGCGACTGTGGAATCCACTCAGT  
 CATTGTCAGGTCGATGGAGGAATGACCAACAACAGGATTCTTATGCAGCTACAGGCAGATATTCTGCACA  
 TTCCGGTAGTTAAGTCTGTATGCCTGAAACGACGGCCCTGGGAGCTGCCATGGCAGCCGGAGCTGCAGA  
 AGGGGTAATGTTGGAGTCTTGAACCTGAAGATTTGTCTACGATCTTGTGGAACGATATGAACCACAA  
 ATCCAAGCCACAGAGAGTGAATTCGTTTTTCAACATGGAAGAGAGCAGTGATGAAGTCAATGGGTTGGG  
 TTACAGCAAAGGACCCTGAAAATGGCGATAACCCTGTCTTCTTGTCTGCCCTTGGGTTTTTTTATAGT  
 GAGTAGCATGACGTTATTAATTGGAGCAAGATGTGTCTCAACTGCTGAAGAGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_010294

**Insert Size:** 1665 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_010294.1](#), [NP\\_034424.1](#)

**RefSeq Size:** 1848 bp

**RefSeq ORF:** 1665 bp

**Locus ID:** 14626

**UniProt ID:** [Q9WU65](#)

**Cytogenetics:** 5 47.71 cM

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