

Product datasheet for **MC228305**

Gk (NM_001294140) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC228305 representing NM_001294140
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGCCGCGAAGAAAGCAGTTCTGGGGCCATTGGTGGGAGCAGTGGACCAGGTACCAGCTCGACAC
 GTTTTTGGTTTTCAATTCAAAAACAGCTGAACCTCTTAGTCATCATCAAGTAGAAATAAAAACAGGAATT
 CCCAAGAGAAGGATGGGTAGAACAAGACCCGAAGGAAATCTGCAGTCTGTTTATGAGTGTATAGAGAAA
 ACGTGTGAGAAACTTGGACAGCTCAATATTGATATTTCCAACATCAAAGCCATTGGTGTGACGAACCAGA
 GGGAAACCACAGTAGTCTGGGACAAGGTCACCGGAGAGCCTCTATAATGCCGTGGTGTGGCTTGACCT
 AAGAACCAGTCTACTGTTGAGAACCTTAGTAAAAGAATCCAGGAAATAATAACTTTGTCAAGTCCAAG
 ACAGGCCCTCCACTTAGCACGATTTTCAGTGCAGTGAACCTTCGTTGGCTCCTTGACAACGTGAAAAAGG
 TCCAAGAGGCTGTTGAAGAAAAAGAGCTCTTTTTGGGACCATTGATTCATGGCTATTTGGAGTTTAA
 AGGAGGAATCCATGGGGGTGCCACTGTACAGATGTAACAAATGCAAGCAGGACGATGCTTTTTAACATT
 CATTCTTTGGAATGGGATAAAGAGCTCTGCGAATTTTTGGAATTCCAATGGAAATCTTCCCAAGTTC
 GGAGTTCTCTGAGATCTATGGCCTAATGAAAATCTCTCATAGCCTGAAAGCTGGGGCCTTGAAGGTGT
 ACCAATATCTGGGTGTTGGGGGACCAGTCTGCTGCTTTGGTGGGACAAATGTGCTTCCAGGATGGACAG
 GCCAAAAACACGTATGGAACAGGGTGCTTCTATTGTGCAACACGGGCCATAAGTGTGATTTTTCTGAAC
 ATGGCCTCCTGACAACCGTAGCATATAAACTTGGCAGAGACAAACCTGTGATTTATGCGTTGGAAGTTC
 CGTGGCTATAGCTGGTGTGTAATCCGCTGGCTAAGAGACAACCTTGAATTTAAGTCCTCTGAGGAA
 ATTGAAAACTTGCTAAGGAAGTAGGTACTTCTTATGGCTGCTACTTCGTTCCAGCATTTCAGGGTTAT
 ATGCGCCTTTGCTGCACTAGAAGCTGTTTGTTCCAAACCCGAGAGATTTTGGATGCCATGAATCGCGAC
 TGTGGAATCCACTCAGTCATTTACAGGTAGATGGAGGAATGACCAGCAATAAAATCTTATGCAGCTAC
 AAGCAGACATTCTGTATTTCCAGTAGTGAACCCCTCCATGCCTGAAACAACCTGCACTAGGCGCTGCCAT
 GGCAGCTGGGGCTGCAGAGGGGTTGGTGTGTGGAGTCTTGAACCTGAGGATTTGTCAGCTGTCACAATG
 GAGCGTTTGAACCTCAGATCAATGCTGAAGAAAGCGAAATCCGTTACTCCACATGGAAGAAAGCTGTGA
 TGAAGTCAATTGGTTGGTTACAACCTCAGTCTCCAGAAAGTGGTGACCCTAGTATCTTCTGTAGTCTGCC
 TTTGGCTTTTTATAGTGAGTAGCATGGTAATGTTAATCGGAGCAAGGTACATCTCAGGTATCCCA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001294140

Insert Size: 1680 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001294140.1](#), [NP_001281069.1](#)

RefSeq Size: 4462 bp

RefSeq ORF: 1680 bp

Locus ID: 14933

UniProt ID: [Q64516](#)

Cytogenetics: X 39.32 cM

Gene Summary: Key enzyme in the regulation of glycerol uptake and metabolism.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (4) represents the longest transcript and encodes the longest isoform (4).