

Product datasheet for **MR208790**

Gk2 (NM_010294) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR208790 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGCCTCGAAGCAAACCTCTGCGGGACCGTTGGTAGGAGCGGTGGTCCAGGGAACCAACTCCACTC
 GCTTTCTAGTTTTCAATAGCAAAACAGCAGAAGCTAGTTTGCTCTCATCAGGTGGAAGTACACAAGAATA
 CCCAAAAGAAGGATGGGTGGAGCAAGACCCCAAGGAAATCCTTAAATCTGTCTATGAGTGATAGCGAAA
 GCTTGTGAAAACTTGCTGAAGTGAACATTGATATTTCCAACATTAAGCTATCGGCGTGAGTAACCAGC
 GGGAAACCACTGTGGTCTGGGACAAGTTCACGGGAGACCCCTGTACAATGCCGTGGTGTGGCTTGATCT
 CAGAACCAGTCTACTGTGGAGACTCTCACTAAGAAAATCCAGGAAATAGCAACTTTGTCAAGTCTAAG
 ACCGGCCTTCTCTTAGCACTTACTTCAGTGTGTGAAGCTGCGGTGGATGCTGGACAACCTAAGACCCA
 TTCAAAGGCTGTTGAGGAAGGCAGAGCCATGTTTGAACCATCGACTCTTGGCTCATCTGGTGTATGAC
 CGGAGGAGTCAATGGAGGCATCCATTGCACCGATGTAACAAATGCATGCAGAACGATGCTTTTTAACATC
 CACTCTTTGGAATGGGATAAAGATCTCTGTGACTTTTTTGAATTCCAATGAGCATCTCCCAAATGTAT
 GCAGTTCTTCTGAGATCTATGGCCTGATGACATCAGGGGCCTTGAAGGCGTGCCAAATATCTGGATGTT
 GGGGGATCAGTCTGCTGCTTTAGTGGGACAAATGTGTTTCCATGAAGGTCAAGCCAAAAACACATACGGA
 ACAGGCTGTTTTTACTATGTAATACAGGCCAGAAATGTGTGTTTTCTGAACATGGCCTTCTGACCACAT
 TGGCTTACAACTAGGCCAAAAAAGCCAGTTTTTATGCCTTAGAAGGTTCTGTTGCTATAGCTGGTGC
 TGTTATTCGCTGGCTAAGAGACAATTTGCAAAATATAACAACCTCAGGGGAAGTTGAAAACTTGAAGA
 GAGTAGGCACCTCCTATGGCTGCTACTTTGCCAGCCTTTTCGGGGCTGTATGCACCTTACTGGGAAC
 CCAGTGAAGAGGATAATCTGTGGTCTCACTCAGTTCACCAACAAATGCCATATTGCCTTTGCTGCGTT
 AGAAGCTGTTTGTTCCAAACCCGAGAGATTTTGGATGCCATGAATCGCGACTGTGGAATCCACTCAGT
 CATTTCAGGTCGATGGAGGAATGACCAACAACAGGATTCTTATGCAGCTACAGGCAGATATTCTGCACA
 TTCCGGTAGTTAAGTCTGTATGCCTGAAACGACGGCCCTGGGAGCTGCCATGGCAGCCGGAGCTGCAGA
 AGGGGTAATGTTGGAGTCTTGAACCTGAAGATTTGTCTACGATCTTGATGGAACGATATGAACCACAA
 ATCCAAGCCACAGAGAGTGAATTCGTTTTTCAACATGGAAGAGAGCAGTGTGAAGTCAATGGGTTGGG
 TTACAGCAAAGGACCCTGAAAAAGGCGATAACCCTGTCTCTCTTGTCTGCCCTTGGGTTTTTTTATAGT
 GAGTAGCATGACGTTATTAATTGGAGCAAGATGTGTCTCAACTGCTGAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208790 protein sequence
 Red=Cloning site Green=Tags(s)

MAASKQTSAGPLVAVVQGTNSTRFLVFNSKTAELVCSHQVELTQEYPKEGWVEQDPKEILKSVYECIAK
 ACEKLAEVNIDIENIKAIIGVSNQRETTVVWDKFTGDPLYNVAVVWLDLRTQSTVETLTKKIPGNSNFVSKS
 TGLPLSTYFSAVKLRWMLDNLRP IQKAVEEGRAMFGTIDSWLIWCMTGGVNGGIHCTDVTNACRMLFNI
 HSLEWDKDLCDFFEIPMSILPNVCSSEIYGLMTSGALEGVPI SGCLGDQSAALVGQMCFHGQAKNTYG
 TGCFLCNTGQKCVFSEHGLLT LAYKLGKNKPVFYALEGSVAIAGAVIRWLRDNFEIITTSGEVENLAR
 EVGTSYGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCFQTREILDAMNRDCGIPLS
 HLQVDGGMTNRRILMQLQADILHIPVVKSVMPETTALGAAMAAGAAEGVNVWSLEPEDLSTILMERYEPQ
 IQATESEIRFSTWKRAVMKSMGWVTAKDPENGDNPVFSCLPLGFFIVSSMTLLIGARCVSTAE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_010294

ORF Size: 1665 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:

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_010294.2](#)

RefSeq Size: 1848 bp

RefSeq ORF: 1665 bp

Locus ID: 14626

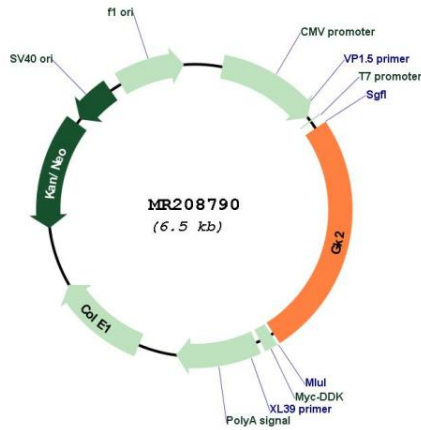
UniProt ID: [Q9WU65](#)

Cytogenetics: 5 47.71 cM

MW: 60.6 kDa

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

Product images:



Circular map for MR208790