

## Product datasheet for RC237639

### SGK196 (POMK) (NM\_001277971) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SGK196 (POMK) (NM_001277971) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SGK196
Synonyms:	MDDGA12; MDDGC12; SGK196
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237639 representing NM_001277971 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGAAAAGCAGCCCCAGAACAGCAGGAGAGGCCCTCGCCCCGAGAGGTGCCGCCAGCTGTTGGGCTGC  
TGCTGATCATGGCCCTGATGAATACTCTGCTCTACCTCTGCCTCGACCACTTCTTCATCGCTCCTCGACA  
ATCCACTGTGGACCCACACACTGTCCCTATGGTCACTCAGGATAGGACAGATGAAAACTGCTCACCT  
TGGCTGCTCTGCGAGGAGCTGAGAACAGAAGTGAAGACAGCTGAAGCGTGTGGGAAGGAGCTGTAAGA  
GAGTCTTTCTGTCTGAGTGAAGGAGCACAAAGTTGCACTCTCACAGCTCACAGCTGGAGATGAAAGA  
TGATTTCCATCCATGGACTGCAGATGCTGAAATCTCTCAAGGCACACATGTTGTCACGCTGCTTGGCTAT  
TGTGAGGATGACAACACTATGCTTACTGAATATCACCCCTTAGGTTCTTGAGTAACCTGGAAGAAACAC  
TAAACCTTTCAAAGTACCAAAATGTGAACACGTGGCAGCACAGGCTGGAGCTGGCCATGGACTATGTCAG  
CATCATAATTACCTGCACCACAGCCCTGTGGGCACACGGGTCATGTGCGACTCCAACGACTGCCGAAG  
ACACTGTCCCAGTATCTGCTAACAAGCAACTCAGCATTTGGCAATGACTTGGACGCCTTACCCTGG  
TGAACCACAGTCCGGGATGCTGGTGAAGTGGCCACAGGGAGCTGCATGGGGATTTCTGGCTCCAGA  
GCAACTGTGGCCCTATGGAGAGGACGTGCCTTTCCACGATGATCTCATGCCCTCATATGATGAGAAGATT  
GACATTTGGAAGATCCCAGACATCTCCAGTTTCTTCTGGGCACATTGAAGGGAGTGATATGGTCCGAT  
TCCATTTGTTGATATTCACAAAGCATGCAAGAGCCAGACTCCCTCAGAAAGACCCACTGCCAGGACGT  
TCTGGAGACCTACCAGAAGGCTTGGATACACTTAGAGATGCCATGATGTCTCAGCAAGAGAGATGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237639 representing NM\_001277971  
Red=Cloning site Green=Tags(s)

MEKQPQNSRRGLAPREVPPAVGLLLIMALMNTLLYLCLDHFIIAPRQSTVDPHCPYGHFRIGQMKNCSPL  
 WLSCEELRTEVRQLKRVGEGAVKRVFLSEWKEHKVALSQLTSLEMKDDFLHGLQMLKSLQGTHVVTLLGY  
 CEDDNTMLTEYHPLGSLNLEETLNL SKYQNVNTWQHRL ELAMDYVSIINYLHHSVPVGTVMCDSDNLPK  
 TLSQYLLTSNFSILANDLDALPLVNHSSGMLVKCGHRELHGDFVAPEQLWPYGEDVPFHDDLMP SYDEKI  
 DIWKIPDISSFLLGHIEGSDMVRFHLDIHKACKSQTPSERPTAQDVLETYQKVLDTLRDAMMSQAREML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001277971

**ORF Size:** 1050 bp

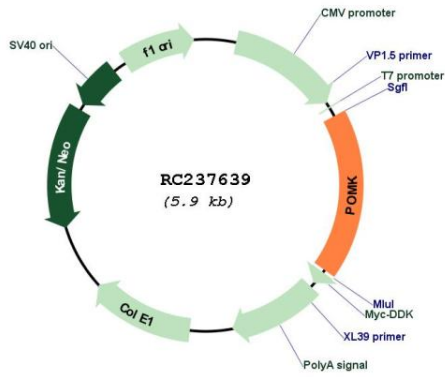
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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>	<u>NM_001277971.1, NP_001264900.1</u>
<b>RefSeq Size:</b>	1527 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	84197
<b>UniProt ID:</b>	<u>Q9H5K3</u>
<b>Cytogenetics:</b>	8p11.21
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>MW:</b>	40.5 kDa
<b>Gene Summary:</b>	This gene encodes a protein that may be involved in the presentation of the laminin-binding O-linked carbohydrate chain of alpha-dystroglycan (a-DG), which forms transmembrane linkages between the extracellular matrix and the exoskeleton. Some pathogens use this O-linked carbohydrate unit for host entry. Loss of function compound heterozygous mutations in this gene were found in a human patient affected by the Walker-Warburg syndrome (WWS) phenotype. Mice lacking this gene contain misplaced neurons (heterotopia) in some regions of the brain, possibly from defects in neuronal migration. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013]

Product images:



Circular map for RC237639