

## Product datasheet for **RG237639**

### **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:	TurboGFP
Symbol:	SGK196
Synonyms:	MDDGA12; MDDGC12; SGK196
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237639 representing NM_001277971. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAAGAGCAGCCCCAGAACAGCAGGAGAGGCCTCGCCCCGAGAGGTGCCGCCAGCTGTTGGGCTG
CTGCTGATCATGGCCCTGATGAATACTCTGCTCTACCTCTGCCTCGACCACTTCTTCATCGCTCCTCGA
CAATCCACTGTGGACCCACACACTGTCCCTATGGTCACCTCAGGATAGGACAGATGAAAACTGCTCA
CCTTGGCTGTCTGCGAGGAGCTGAGAACAAGTGAGACAGCTGAAGCGTGTGGGGAAGGAGCTGTA
AAGAGAGTCTTTCTGTCTGAGTGAAGGAGCACAAAGTTGCACTCTCACAGCTCACCAGCCTGGAGATG
AAAGATGATTTCTCCATGGACTGCAGATGCTGAAATCTCTCAAGGCACACATGTTGTCACGCTGCTT
GGCTATTGTGAGGATGACAACACTATGCTTACTGAATATCACCTCTAGGTTCTTGAGTAACCTGGAA
GAAACTAAACCTTTCAAAGTACCAAAATGTGAACACGTGGCAGCACAGGCTGGAGCTGGCCATGGAC
TATGTCAGCATCATTAATTACCTGCACCACAGCCCTGTGGGCACACGGGTCATGTGCGACTCCAACGAC
CTGCCGAAGACTGTCCAGTATCTGTAACAAGCAACTTCAGCATTTTGGCAAATGACTTGGACGCC
TTACCCCTGGTGAACCACAGCTCCGGATGCTGGTGAAGTGCGGCCACAGGGAGCTGCATGGGGATTTT
GTGGCTCCAGAGCAACTGTGGCCCTATGGAGAGGACGTGCCTTTCCACGATGATCTCATGCCCTCATAT
GATGAGAAGATTGACATTTGGAAGATCCAGACATCTCCAGTTTCTTCTGGGGCACATTGAAGGGAGT
GATATGGTCCGATTCATTTGTTTATTCACAAAGCATGCAAGAGCCAGACTCCCTCAGAAAGACCC
ACTGCCCAGGACGTTCTGGAGACCTACCAAGGTCCTGGATACACTTAGAGATGCCATGATGTCTCAG
GCAAGAGAGATGCTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237639  
 Blue=ORF Red=Cloning site Green=Tag(s)

MEKQPQNSRRGLAPREVPPAVGLLLIMALMNTLLYLCLDHFFIAPRQSTVDPTHCPYGHFRIGQMKNCS  
 PWLSCEELRTEVRQLKRVGEGAVKRVFLSEWKEHKVALSQLTSLEMKDDFLHGLQMLKSLQGTHVVTL  
 GYCEDDNTMLTEYHPLGSLNLEETLNL SKYQNVNTWQHRLELAMDYVSIINYLHHSVPVTRVMCDSND  
 LPKTL SQYLLTSNFSILANDLDALPLVNHSSGMLVKCGHRELHGDFVAPEQLWPYGEDVPFHDDLMP  
 SYDEKIDIWKIPDISSFLLGHIEGSDMVRFHFLFDIHKACKSQTPSERPTAQDVLETYQKVLDTLRDAMMSQ  
 AREML  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001277971

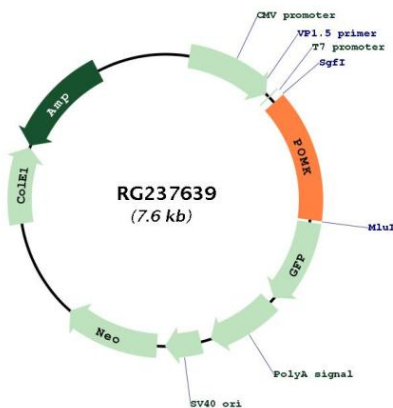
**ORF Size:** 1050 bp

**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](#)

<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>RefSeq:</b>	<a href="#">NM_001277971.1</a> , <a href="#">NP_001264900.1</a>
<b>RefSeq Size:</b>	1527 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	84197
<b>UniProt ID:</b>	<a href="#">Q9H5K3</a>
<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 RG237639